
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 #: 0803156

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Comments:

Completed by:

Kara McKiernan	Kara McKiernan / Document Control	3/25/08
(Signature)	(Print Name & Title)	(Date)

AN ENVIRONMENTAL ANALYTICAL LABORATORY

WORK ORDER #: 0803156

Work Order Summary

CLIENT:	Ms. Theresa Landgraff GEI Consultants, Inc. 110 Walt Whitman Road Suite 204 Huntington Station, NY 11746	**BILL TO:**	Ms. Theresa Landgraff GEI Consultants, Inc. 110 Walt Whitman Road Suite 204 Huntington Station, NY 11746
PHONE:	631-760-9300 x 12	**P.O. #**	NR
FAX:		**PROJECT #**	061140-8-1703 BayShore OU1 Southern cell Air Monitorin
DATE RECEIVED:	03/07/2008	**CONTACT:**	Bryanna Langley
DATE COMPLETED:	03/20/2008		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	UW AMS 5	Modified TO-15	3.5 "Hg	5 psi
02A	DW AMS 3	Modified TO-15	6.0 "Hg	5 psi
03A	Lab Blank	Modified TO-15	NA	NA
04A	CCV	Modified TO-15	NA	NA
05A	LCS	Modified TO-15	NA	NA

CERTIFIED BY: Linda D. Fruman DATE: 03/20/08

Laboratory Director

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

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630
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AN ENVIRONMENTAL ANALYTICAL LABORATORY

LABORATORY NARRATIVE
Modified TO-15
GEI Consultants, Inc.
Workorder# 0803156

Two 6 Liter Summa Canister samples were received on March 07, 2008. The laboratory performed analysis via modified EPA Method TO-15 using GC/MS in the full scan mode. The method involves concentrating up to 0.2 liters of air. The concentrated aliquot is then flash vaporized and swept through a water management system to remove water vapor. Following dehumidification, the sample passes directly into the GC/MS for analysis.

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

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

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

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

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

Definition of Data Qualifying Flags

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

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

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

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

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

Table 1

Client Sample ID	Lab Sample ID	Date Collected	Date Received	Date Extracted	Sample Holding Time (Days)	Sample Extract Date Analyzed	Sample Extract Holding Time (Days)	Sample Condition
UW AMS 5	0803156-01A	3/ 6/2008	3/ 7/2008	NA	13	3/19/2008	NA	Good
DW AMS 3	0803156-02A	3/ 6/2008	3/ 7/2008	NA	13	3/19/2008	NA	Good
Lab Blank	0803156-03A	NA	NA	NA	NA	3/19/2008	NA	Good
CCV	0803156-04A	NA	NA	NA	NA	3/19/2008	NA	Good
LCS	0803156-05A	NA	NA	NA	NA	3/19/2008	NA	Good

Sample Results and Raw Data

AN ENVIRONMENTAL ANALYTICAL LABORATORY

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

Client Sample ID: UW AMS 5

Lab ID#: 0803156-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Benzene	0.76	0.87	2.4	2.8
Toluene	0.76	1.5	2.9	5.7
Acetone	3.0	5.4	7.2	13
2-Propanol	3.0	5.2	7.5	13
Ethanol	3.0	5.7	5.7	11

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: UW AMS 5

Lab ID#: 0803156-01A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**y031908**	**Date of Collection: 3/6/08**	
Dil. Factor:	**1.52**	**Date of Analysis: 3/19/08 03:58 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	0.76	Not Detected	3.8	Not Detected
Freon 114	0.76	Not Detected	5.3	Not Detected
Vinyl Chloride	0.76	Not Detected	1.9	Not Detected
Bromomethane	0.76	Not Detected	3.0	Not Detected
Chloroethane	0.76	Not Detected	2.0	Not Detected
Freon 11	0.76	Not Detected	4.3	Not Detected
1,1-Dichloroethene	0.76	Not Detected	3.0	Not Detected
Freon 113	0.76	Not Detected	5.8	Not Detected
Methylene Chloride	0.76	Not Detected	2.6	Not Detected
1,1-Dichloroethane	0.76	Not Detected	3.1	Not Detected
cis-1,2-Dichloroethene	0.76	Not Detected	3.0	Not Detected
Chloroform	0.76	Not Detected	3.7	Not Detected
1,1,1-Trichloroethane	0.76	Not Detected	4.1	Not Detected
Carbon Tetrachloride	0.76	Not Detected	4.8	Not Detected
Benzene	0.76	0.87	2.4	2.8
1,2-Dichloroethane	0.76	Not Detected	3.1	Not Detected
Trichloroethene	0.76	Not Detected	4.1	Not Detected
1,2-Dichloropropane	0.76	Not Detected	3.5	Not Detected
cis-1,3-Dichloropropene	0.76	Not Detected	3.4	Not Detected
Toluene	0.76	1.5	2.9	5.7
trans-1,3-Dichloropropene	0.76	Not Detected	3.4	Not Detected
1,1,2-Trichloroethane	0.76	Not Detected	4.1	Not Detected
Tetrachloroethene	0.76	Not Detected	5.2	Not Detected
1,2-Dibromoethane (EDB)	0.76	Not Detected	5.8	Not Detected
Chlorobenzene	0.76	Not Detected	3.5	Not Detected
Ethyl Benzene	0.76	Not Detected	3.3	Not Detected
m,p-Xylene	0.76	Not Detected	3.3	Not Detected
o-Xylene	0.76	Not Detected	3.3	Not Detected
Styrene	0.76	Not Detected	3.2	Not Detected
1,1,2,2-Tetrachloroethane	0.76	Not Detected	5.2	Not Detected
1,3,5-Trimethylbenzene	0.76	Not Detected	3.7	Not Detected
1,2,4-Trimethylbenzene	0.76	Not Detected	3.7	Not Detected
1,3-Dichlorobenzene	0.76	Not Detected	4.6	Not Detected
1,4-Dichlorobenzene	0.76	Not Detected	4.6	Not Detected
alpha-Chlorotoluene	0.76	Not Detected	3.9	Not Detected
1,2-Dichlorobenzene	0.76	Not Detected	4.6	Not Detected
1,3-Butadiene	0.76	Not Detected	1.7	Not Detected
Hexane	0.76	Not Detected	2.7	Not Detected
Cyclohexane	0.76	Not Detected	2.6	Not Detected

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: UW AMS 5

Lab ID#: 0803156-01A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**y031908**	**Date of Collection: 3/6/08**	
Dil. Factor:	**1.52**	**Date of Analysis: 3/19/08 03:58 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Heptane	0.76	Not Detected	3.1	Not Detected
Bromodichloromethane	0.76	Not Detected	5.1	Not Detected
Dibromochloromethane	0.76	Not Detected	6.5	Not Detected
Cumene	0.76	Not Detected	3.7	Not Detected
Propylbenzene	0.76	Not Detected	3.7	Not Detected
Chloromethane	3.0	Not Detected	6.3	Not Detected
1,2,4-Trichlorobenzene	3.0	Not Detected	22	Not Detected
Hexachlorobutadiene	3.0	Not Detected	32	Not Detected
Acetone	3.0	5.4	7.2	13
Carbon Disulfide	0.76	Not Detected	2.4	Not Detected
2-Propanol	3.0	5.2	7.5	13
trans-1,2-Dichloroethene	0.76	Not Detected	3.0	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.76	Not Detected	2.2	Not Detected
Tetrahydrofuran	0.76	Not Detected	2.2	Not Detected
1,4-Dioxane	3.0	Not Detected	11	Not Detected
4-Methyl-2-pentanone	0.76	Not Detected	3.1	Not Detected
2-Hexanone	3.0	Not Detected	12	Not Detected
Bromoform	0.76	Not Detected	7.8	Not Detected
4-Ethyltoluene	0.76	Not Detected	3.7	Not Detected
Ethanol	3.0	5.7	5.7	11
Methyl tert-butyl ether	0.76	Not Detected	2.7	Not Detected
3-Chloropropene	3.0	Not Detected	9.5	Not Detected
2,2,4-Trimethylpentane	0.76	Not Detected	3.6	Not Detected
Naphthalene	3.0	Not Detected	16	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	95	70-130
1,2-Dichloroethane-d4	100	70-130
4-Bromofluorobenzene	98	70-130

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AMBIENT AIR METHOD TO14/TO15

Data file : /chem/msdy.i/y-19mar.b/y031908.d
Lab Smp Id: 0803156-01A
Inj Date : 19-MAR-2008 15:58
Operator : dfm Inst ID: msdy.i
Smp Info : 500mL #34015
Misc Info : 3.5"Hg-5psi
Comment :
Method : /chem/msdy.i/y-19mar.b/t14ll0226b.m
Meth Date : 19-Mar-2008 11:54 lrandolp Quant Type: ISTD
Cal Date : 12-MAR-2008 10:12 Cal File: y031126.d
Als bottle: 1
Dil Factor: 1.52000
Integrator: HP RTE Compound Sublist: AT08.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				CONCENTRATIONS ON-COL	CONCENTRATIONS FINAL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
* 47 Bromochloromethane					CAS #: 74-97-5		
9.446	9.446 (1.000)	130	347051	10.0000		80.00- 120.00	100.00
9.446	9.446 (1.000)	128	275695			0.00- 30.00	79.44
9.418	9.446 (1.000)	49	636053			0.00- 30.00	183.27
* 60 1,4-Difluorobenzene					CAS #: 540-36-3		
10.745	10.718 (1.000)	114	1217941	10.0000		80.00- 120.00	100.00
10.718	10.718 (1.000)	88	203285			0.00- 46.27	16.69
* 80 Chlorobenzene-d5					CAS #: 3114-55-4		
15.916	15.916 (1.000)	117	934957	10.0000		80.00- 120.00	100.00
15.916	15.916 (1.000)	82	518140			0.00- 30.00	55.42
$ 57 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
10.165	10.165 (1.076)	65	511249	9.98954	9.990	80.00- 120.00	100.00
10.165	10.165 (1.076)	67	266783			24.94- 84.94	52.18
$ 70 Toluene-d8					CAS #: 2037-26-5		
13.317	13.317 (1.239)	98	1163639	9.51453	9.514	80.00- 120.00	100.00
13.317	13.317 (1.239)	70	129999			0.00- 40.90	11.17

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
$ 70 Toluene-d8 (continued)							
13.317	13.317 (1.239)	100	755541			37.77- 97.77	64.93
$ 92 Bromofluorobenzene					CAS #: 460-00-4		
17.768	17.768 (1.116)	174	492671	9.77225	9.772	80.00- 120.00	100.00
17.768	17.768 (1.116)	95	724719			123.96- 183.96	147.10
17.768	17.768 (1.116)	176	470348			67.65- 127.65	95.47
17 Ethanol					CAS #: 64-17-5		
6.570	6.542 (0.696)	45	80874	3.73587	5.678	80.00- 120.00	100.00
6.570	6.542 (0.696)	43	20705			0.00- 48.46	25.60
6.570	6.542 (0.696)	46	34082			10.06- 70.06	42.14
24 Acetone					CAS #: 67-64-1		
7.013	7.013 (0.742)	43	269962	3.52356	5.356	80.00- 120.00	100.00
7.013	7.013 (0.742)	58	70694			4.59- 64.59	26.19
28 2-Propanol					CAS #: 67-63-0		
7.400	7.372 (0.783)	45	273640	3.39860	5.166	80.00- 120.00	100.00
7.400	7.372 (0.783)	43	116738			0.00- 47.61	42.66
7.400	7.372 (0.783)	59	10926			0.00- 33.99	3.99
56 Benzene					CAS #: 71-43-2		
10.137	10.137 (0.943)	78	88217	0.57180	0.8691	80.00- 120.00	100.00
10.137	10.137 (0.943)	77	20662			0.00- 53.10	23.42
72 Toluene					CAS #: 108-88-3		
13.455	13.455 (1.252)	91	159612	0.99520	1.513	80.00- 120.00	100.00
13.455	13.455 (1.252)	92	91716			30.24- 90.24	57.46

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INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdy.i
Lab File ID: y031908.d
Lab Smp Id: 0803156-01A
Analysis Type: VOA
Quant Type: ISTD
Operator: dfm
Method File: /chem/msdy.i/y-19mar.b/t14ll0226b.m
Misc Info: 3.5"Hg-5psi

Calibration Date: 19-MAR-2008
Calibration Time: 10:06
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 Bromochloromethan	350664	210398	490930	347051	-1.03
60 1,4-Difluorobenze	1382074	829244	1934904	1217941	-11.88
80 Chlorobenzene-d5	1046603	627962	1465244	934957	-10.67

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 Bromochloromethan	9.45	9.12	9.78	9.45	0.00
60 1,4-Difluorobenze	10.72	10.39	11.05	10.75	0.26
80 Chlorobenzene-d5	15.92	15.59	16.25	15.92	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: y-19mar
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: 0803156-01A
Level: LOW Operator: dfm
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: Quant Type: ISTD
Sublist File: AT08.sub
Method File: /chem/msdy.i/y-19mar.b/t14ll0226b.m
Misc Info: 3.5"Hg-5psi

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 57 1,2-Dichloroethane	10.000	9.990	99.90	70-130
$ 70 Toluene-d8	10.000	9.514	95.15	70-130
$ 92 Bromofluorobenzene	10.000	9.772	97.72	70-130

Data File: /chem/msdy.i/y-19mar.b/y031908.d

Date : 19-MAR-2008 15:58

Client ID:

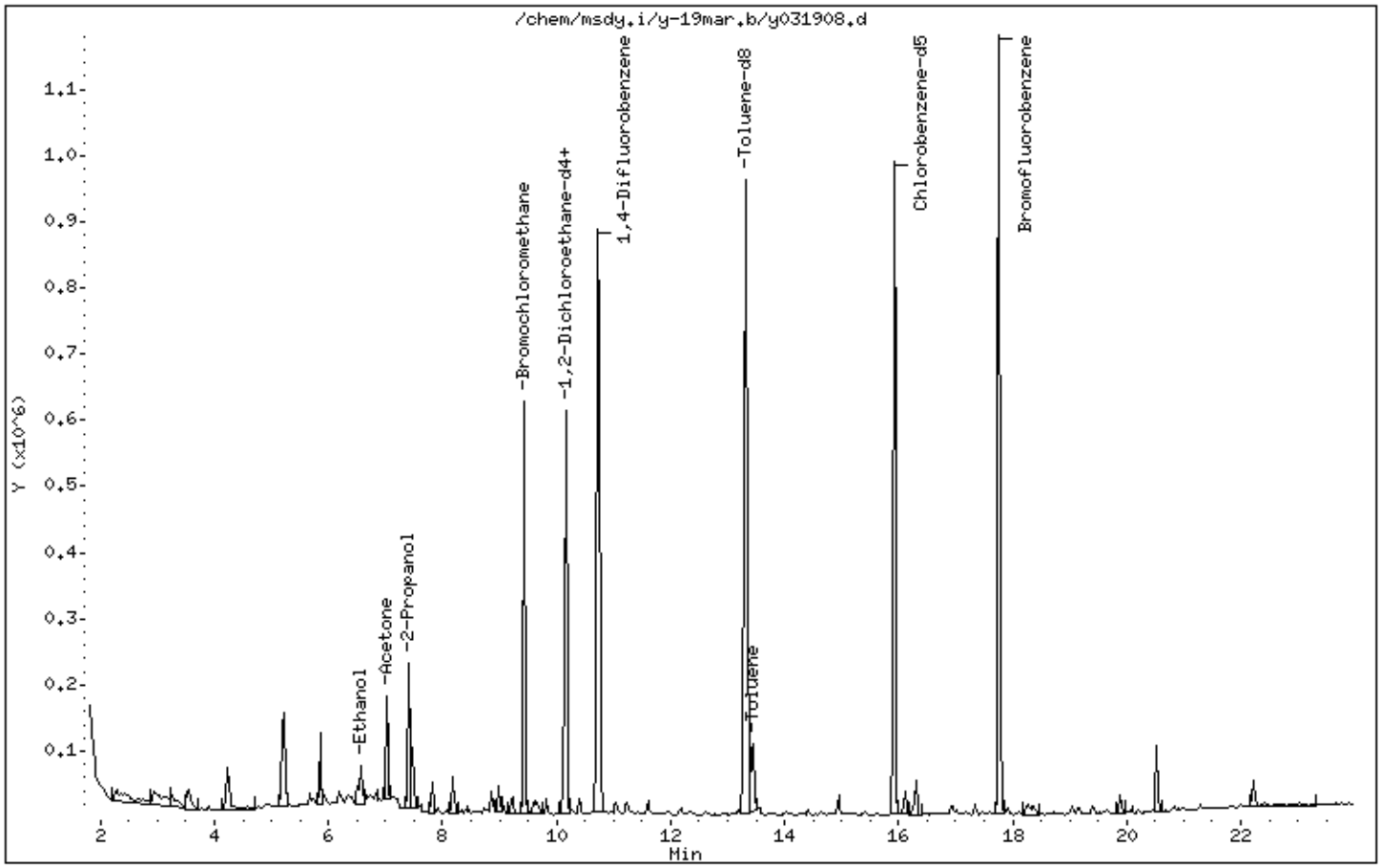
Instrument: msdy.i

Sample Info: 500mL #34015

Operator: dfm

Column phase: RTx-624

Column diameter: 0.32



Data File: /chem/msdy.i/y-19mar.b/y031908.d

Date : 19-MAR-2008 15:58

Client ID:

Instrument: msdy.i

Sample Info: 500mL #34015

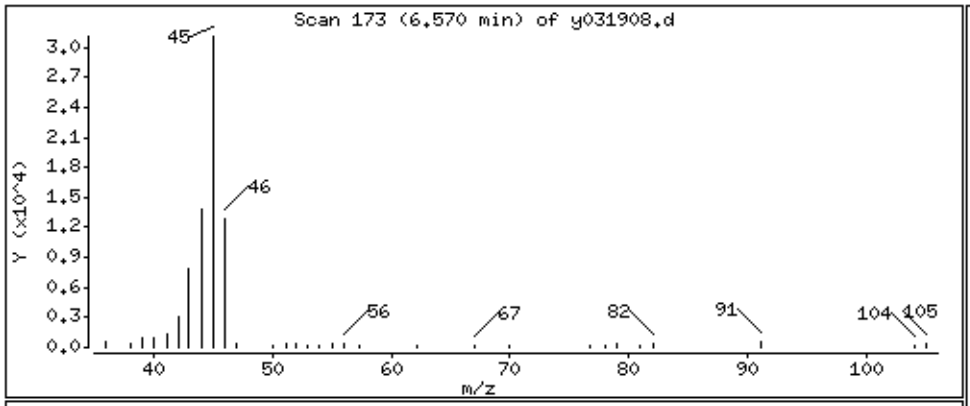
Operator: dfm

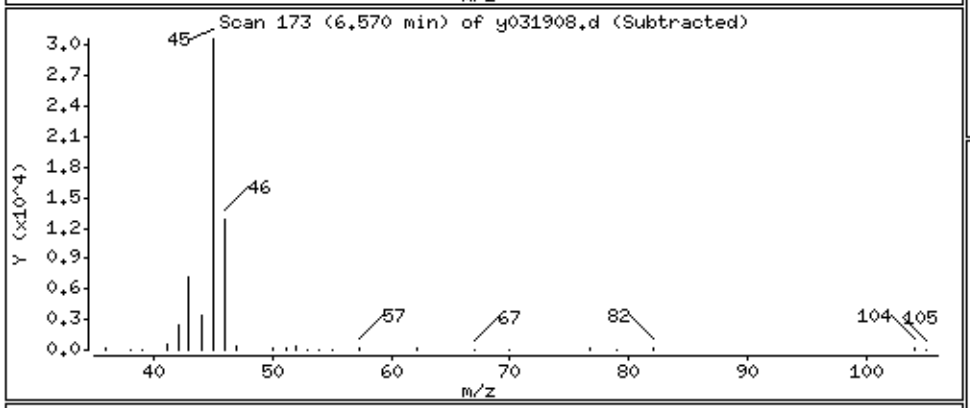
Column phase: RTx-624

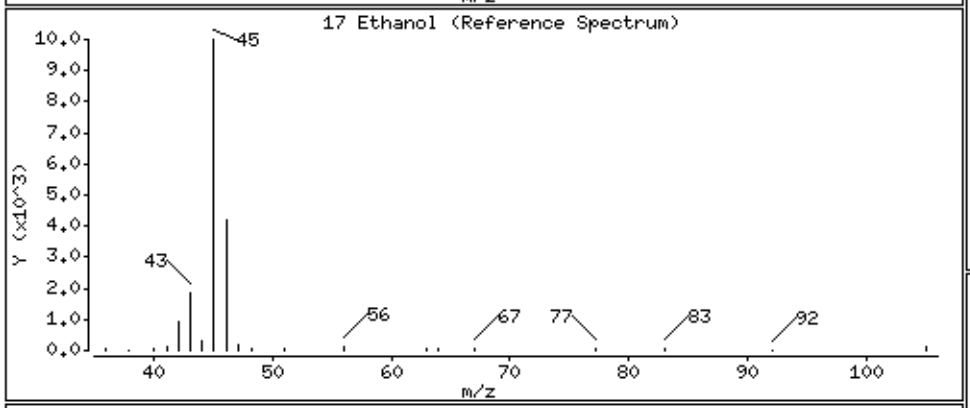
Column diameter: 0.32

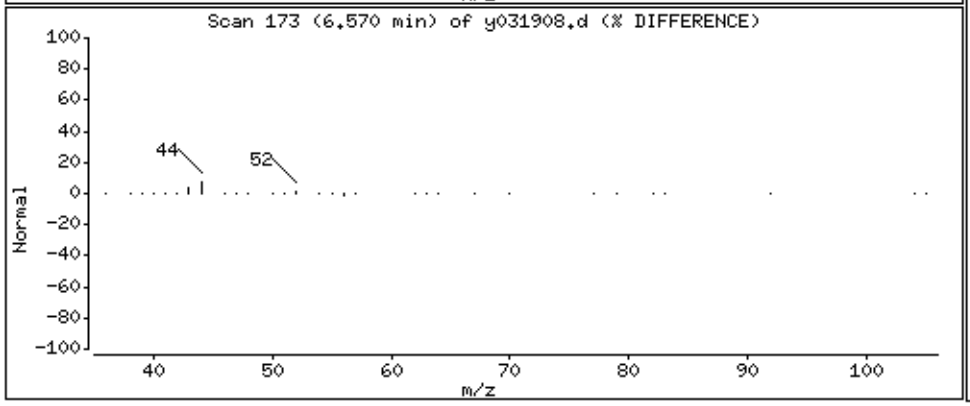
17 Ethanol

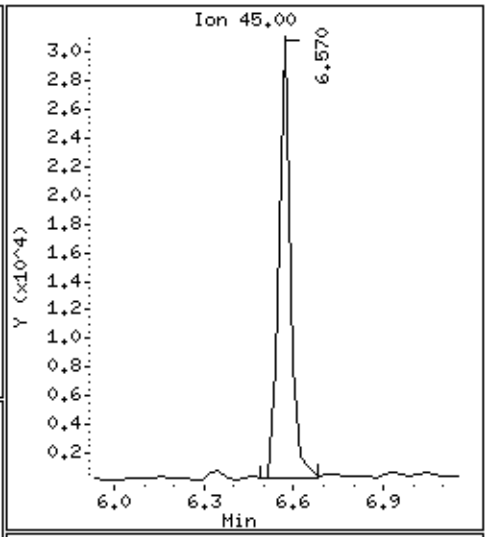
Concentration: 5.678 PPBV

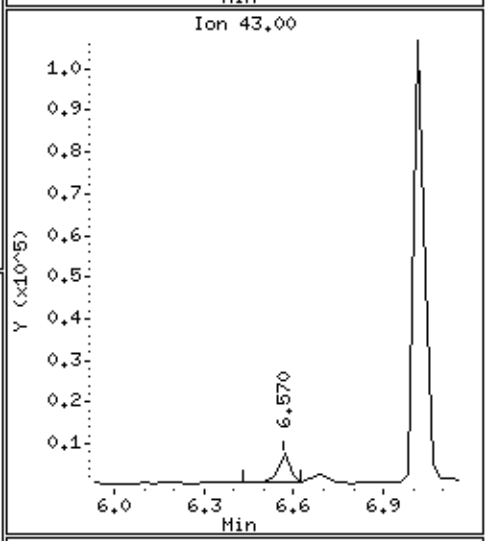


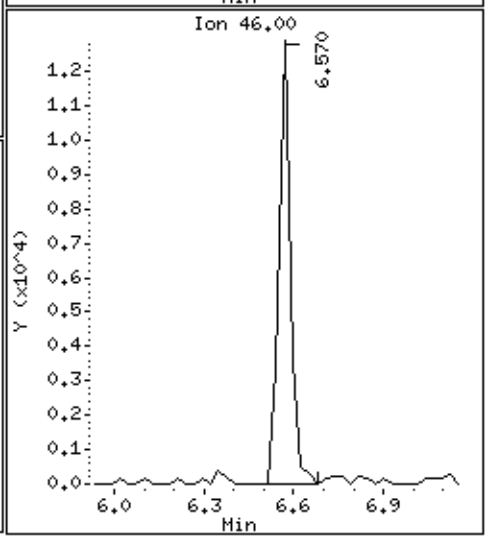












Data File: /chem/msdy.i/y-19mar.b/y031908.d

Date : 19-MAR-2008 15:58

Client ID:

Instrument: msdy.i

Sample Info: 500mL #34015

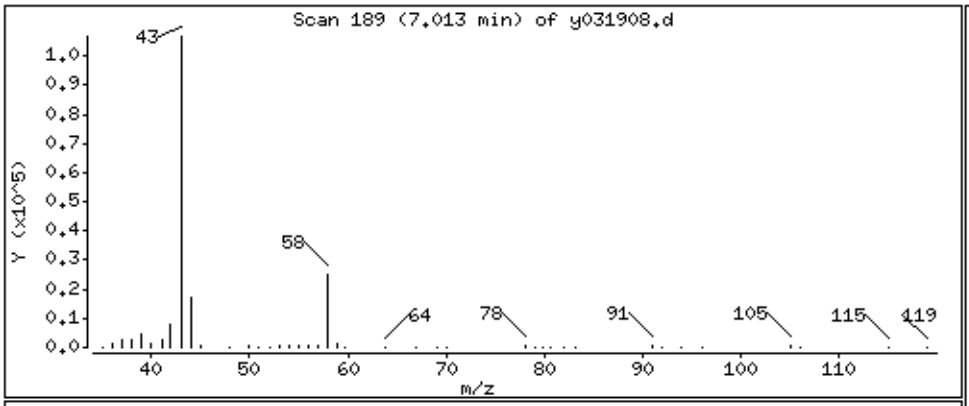
Operator: dfm

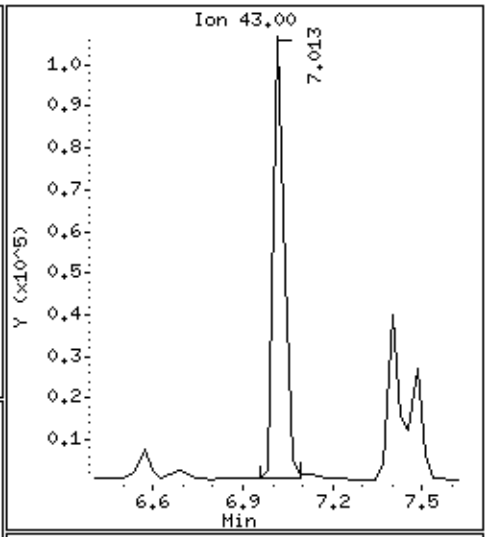
Column phase: RTx-624

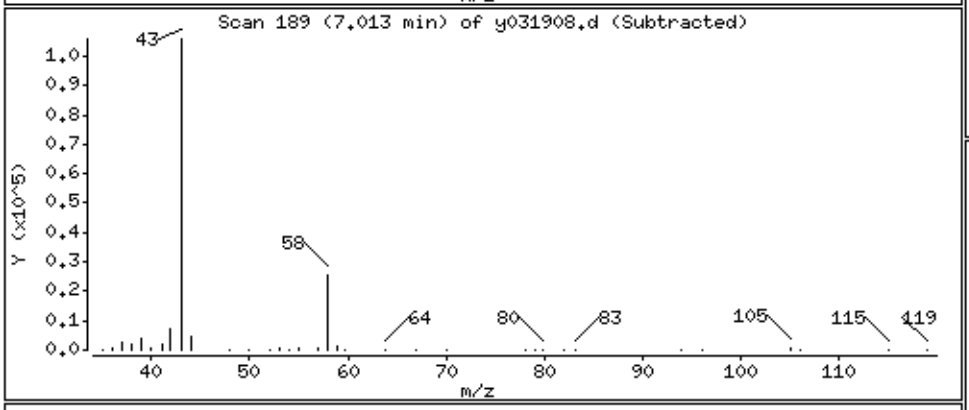
Column diameter: 0.32

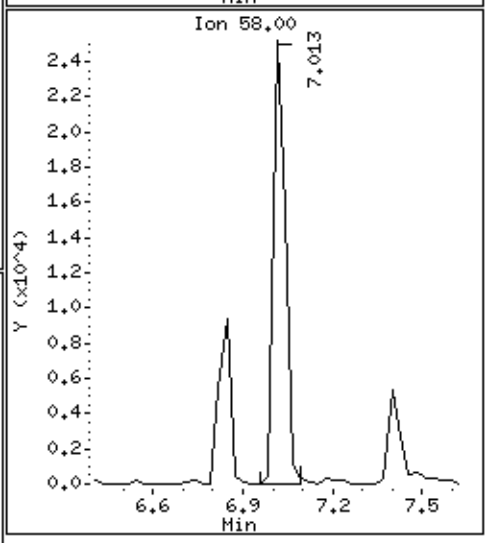
24 Acetone

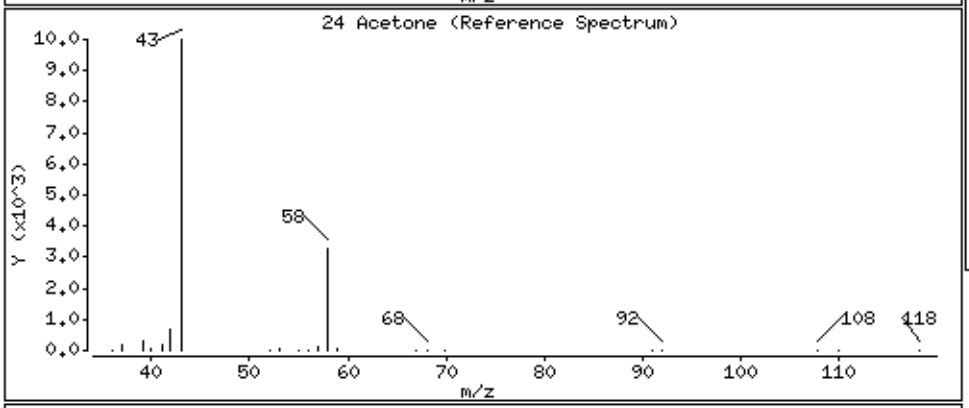
Concentration: 5.356 PPBV

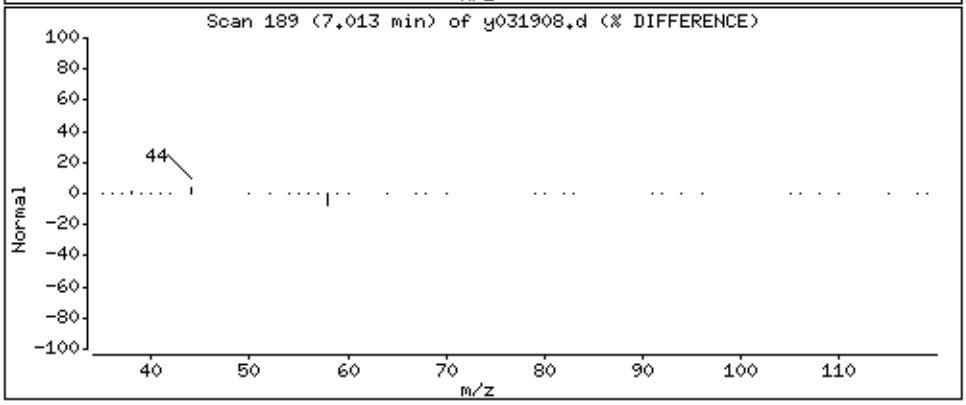












Data File: /chem/msdy.i/y-19mar.b/y031908.d

Date : 19-MAR-2008 15:58

Client ID:

Instrument: msdy.i

Sample Info: 500mL #34015

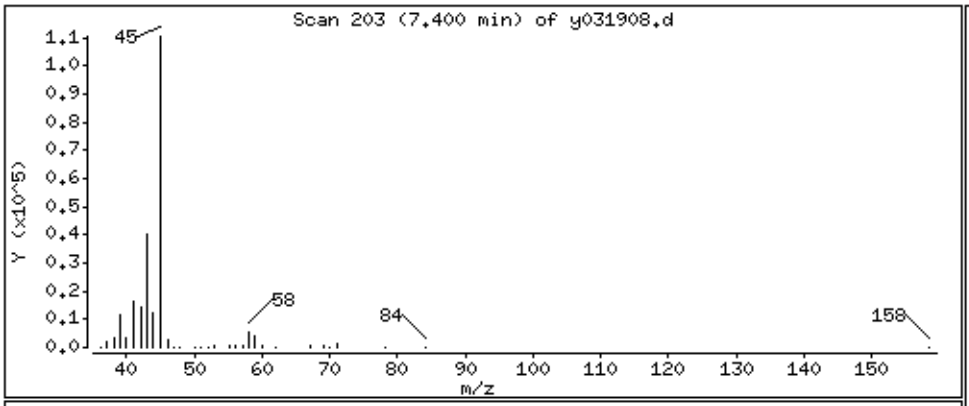
Operator: dfm

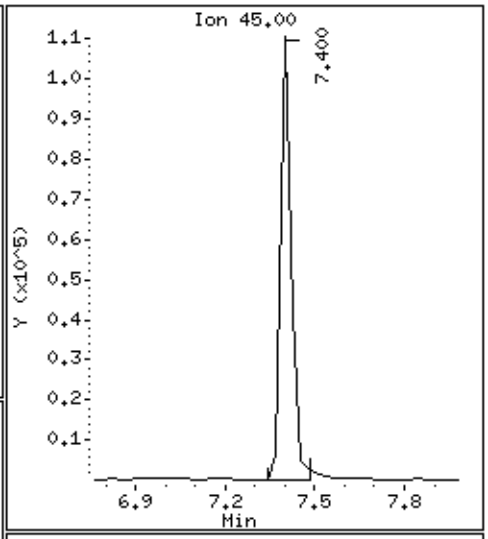
Column phase: RTx-624

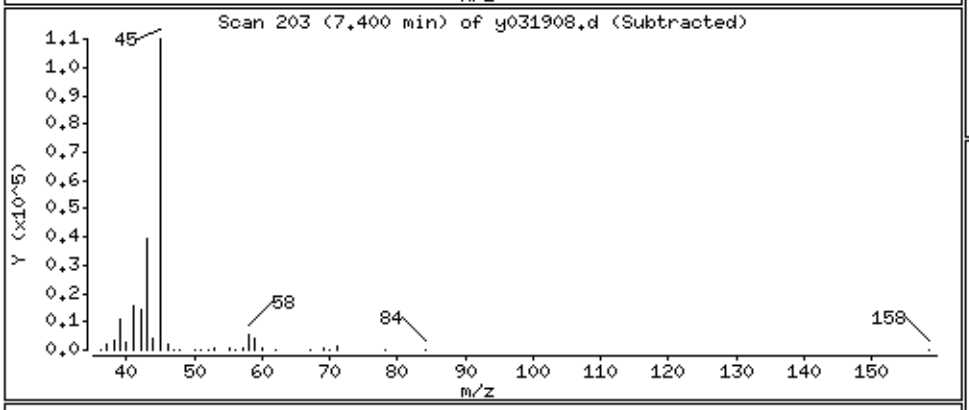
Column diameter: 0.32

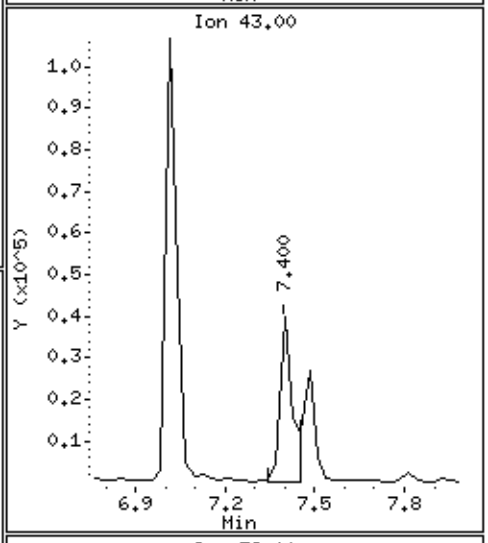
28 2-Propanol

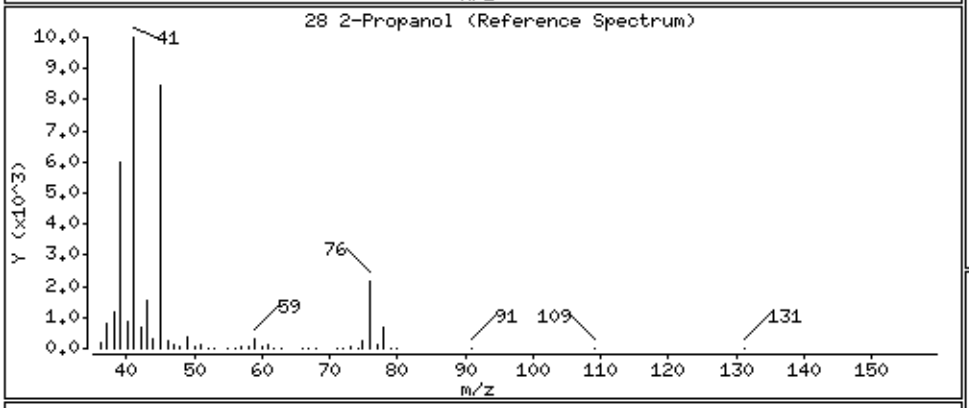
Concentration: 5.166 PPBV

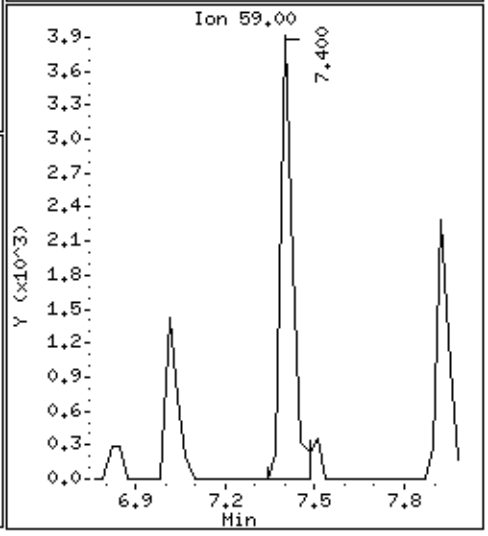


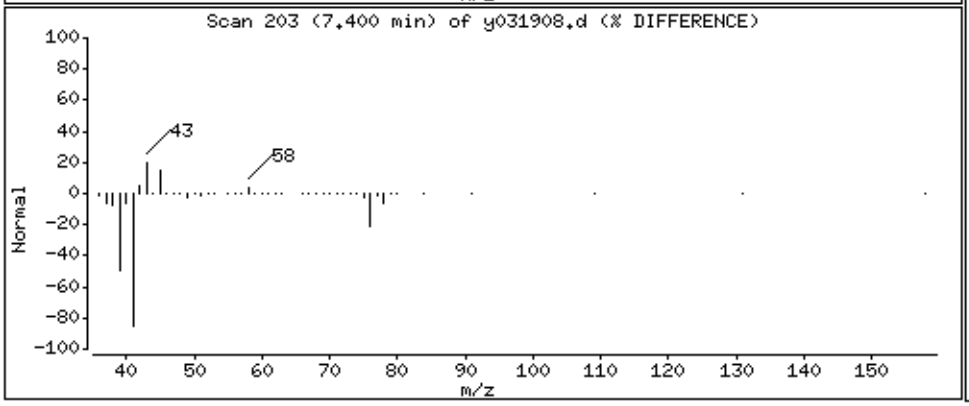












Data File: /chem/msdy.i/y-19mar.b/y031908.d

Date : 19-MAR-2008 15:58

Client ID:

Instrument: msdy.i

Sample Info: 500mL #34015

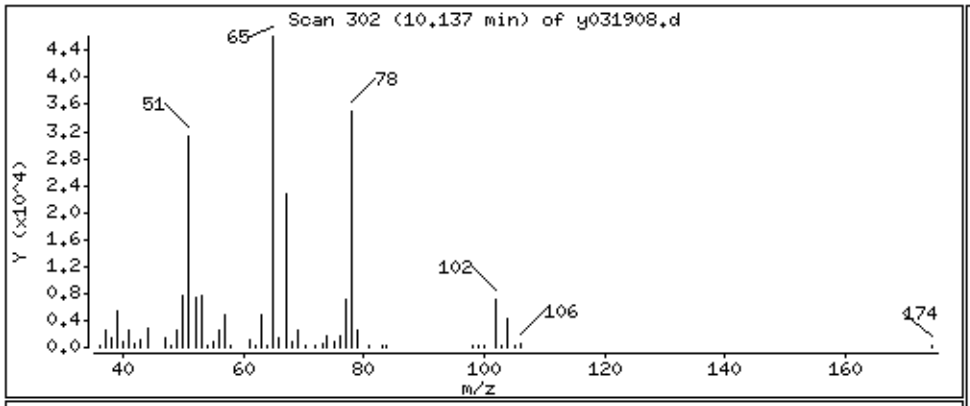
Operator: dfm

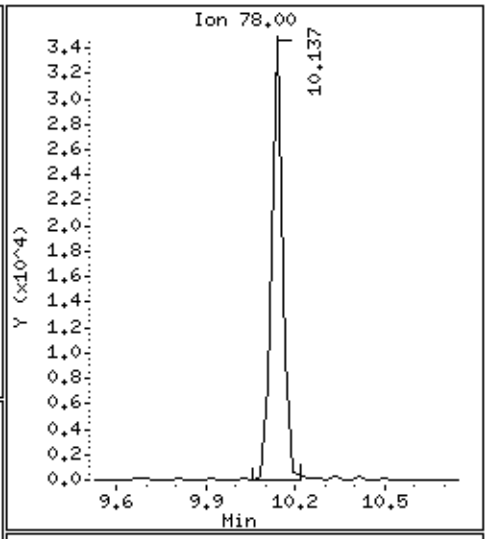
Column phase: RTx-624

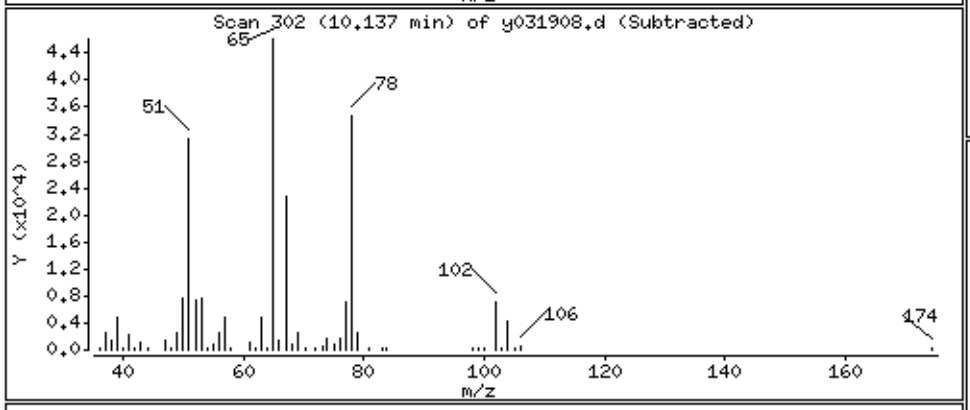
Column diameter: 0.32

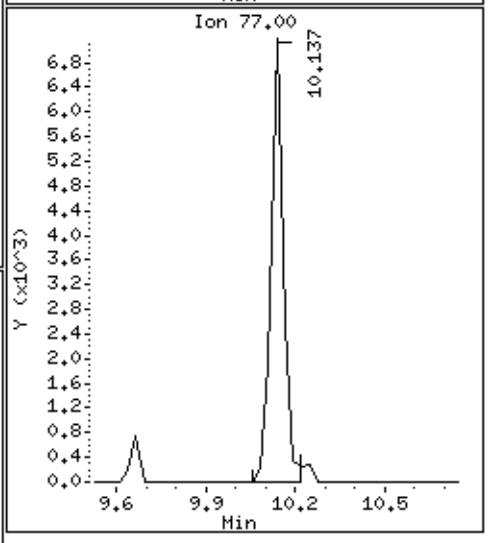
56 Benzene

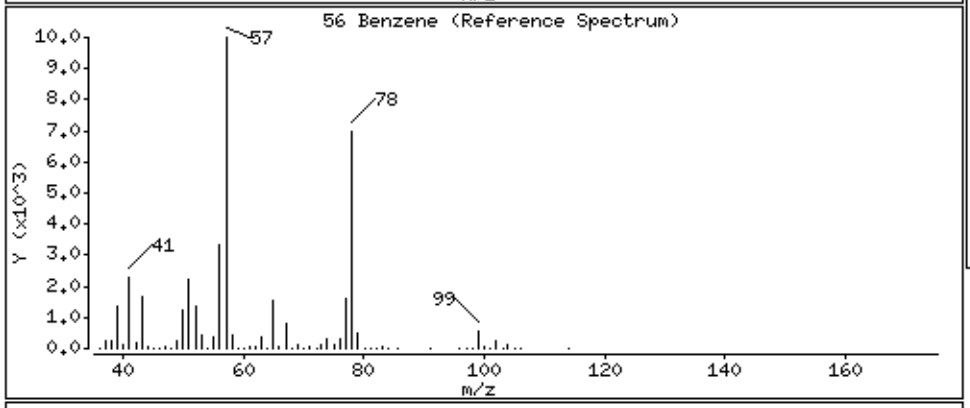
Concentration: 0.8691 PPBV

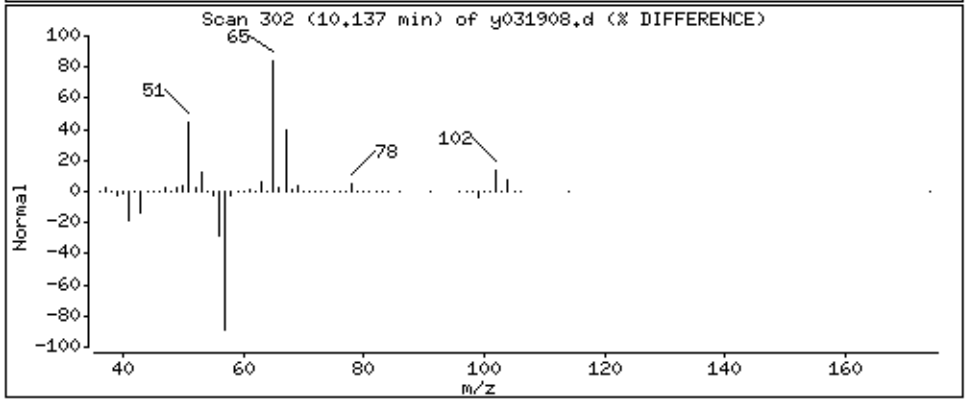












Data File: /chem/msdy.i/y-19mar.b/y031908.d

Date : 19-MAR-2008 15:58

Client ID:

Instrument: msdy.i

Sample Info: 500mL #34015

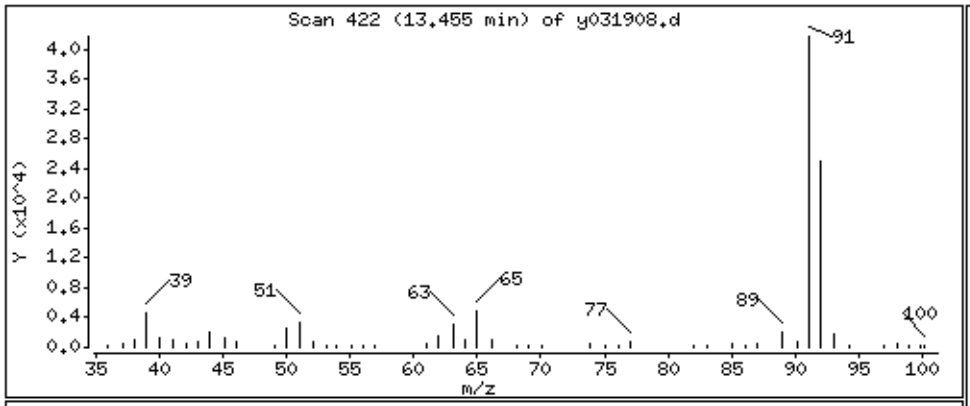
Operator: dfm

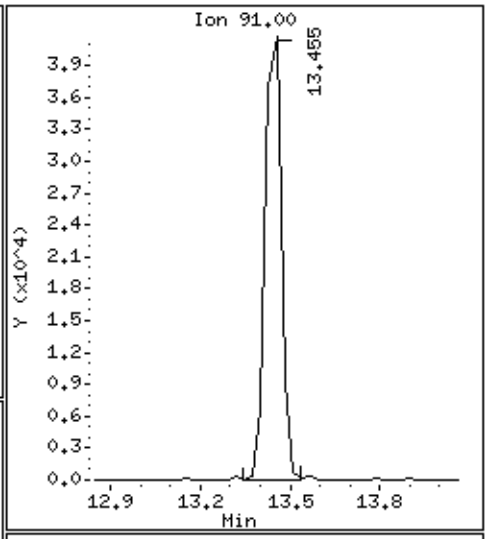
Column phase: RTx-624

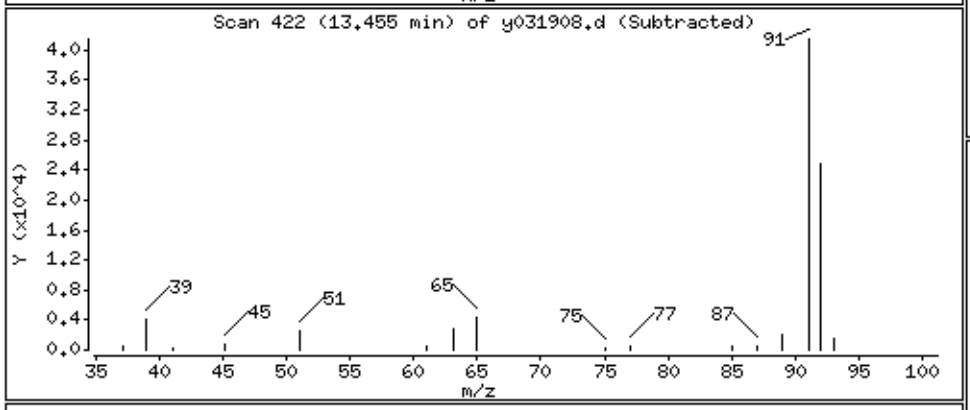
Column diameter: 0.32

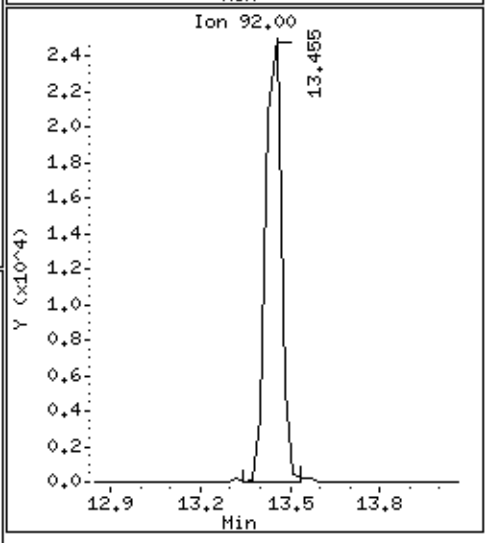
72 Toluene

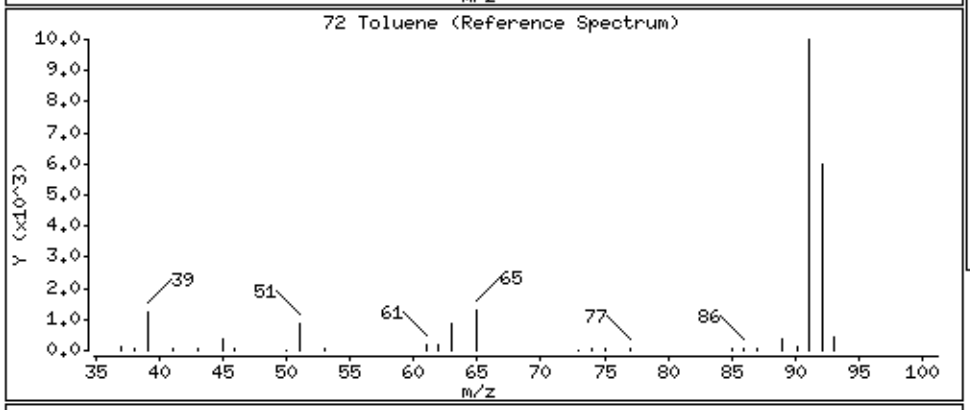
Concentration: 1.513 PPBV

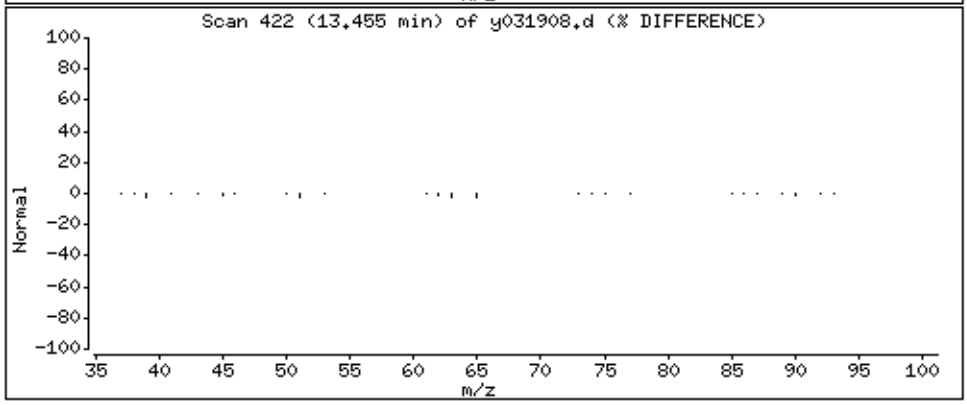












AN ENVIRONMENTAL ANALYTICAL LABORATORY

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

Client Sample ID: DW AMS 3

Lab ID#: 0803156-02A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Toluene	0.84	0.94	3.2	3.5
Acetone	3.4	3.4	8.0	8.1
2-Butanone (Methyl Ethyl Ketone)	0.84	0.90	2.5	2.7

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: DW AMS 3

Lab ID#: 0803156-02A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**y031909**	**Date of Collection: 3/6/08**	
Dil. Factor:	**1.68**	**Date of Analysis: 3/19/08 04:45 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	0.84	Not Detected	4.2	Not Detected
Freon 114	0.84	Not Detected	5.9	Not Detected
Vinyl Chloride	0.84	Not Detected	2.1	Not Detected
Bromomethane	0.84	Not Detected	3.3	Not Detected
Chloroethane	0.84	Not Detected	2.2	Not Detected
Freon 11	0.84	Not Detected	4.7	Not Detected
1,1-Dichloroethene	0.84	Not Detected	3.3	Not Detected
Freon 113	0.84	Not Detected	6.4	Not Detected
Methylene Chloride	0.84	Not Detected	2.9	Not Detected
1,1-Dichloroethane	0.84	Not Detected	3.4	Not Detected
cis-1,2-Dichloroethene	0.84	Not Detected	3.3	Not Detected
Chloroform	0.84	Not Detected	4.1	Not Detected
1,1,1-Trichloroethane	0.84	Not Detected	4.6	Not Detected
Carbon Tetrachloride	0.84	Not Detected	5.3	Not Detected
Benzene	0.84	Not Detected	2.7	Not Detected
1,2-Dichloroethane	0.84	Not Detected	3.4	Not Detected
Trichloroethene	0.84	Not Detected	4.5	Not Detected
1,2-Dichloropropane	0.84	Not Detected	3.9	Not Detected
cis-1,3-Dichloropropene	0.84	Not Detected	3.8	Not Detected
Toluene	0.84	0.94	3.2	3.5
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: DW AMS 3

Lab ID#: 0803156-02A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**y031909**	**Date of Collection: 3/6/08**	
Dil. Factor:	**1.68**	**Date of Analysis: 3/19/08 04:45 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	3.4	8.0	8.1
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	0.90	2.5	2.7
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

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

Air Toxics Ltd.

AMBIENT AIR METHOD TO14/TO15

Data file : /chem/msdy.i/y-19mar.b/y031909.d
Lab Smp Id: 0803156-02A
Inj Date : 19-MAR-2008 16:45
Operator : dfm Inst ID: msdy.i
Smp Info : 500mL #22678
Misc Info : 6.0"Hg-5psi
Comment :
Method : /chem/msdy.i/y-19mar.b/t14ll0226b.m
Meth Date : 19-Mar-2008 11:54 lrandolp Quant Type: ISTD
Cal Date : 12-MAR-2008 10:12 Cal File: y031126.d
Als bottle: 1
Dil Factor: 1.68000
Integrator: HP RTE Compound Sublist: AT08.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				CONCENTRATIONS ON-COL	CONCENTRATIONS FINAL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
* 47 Bromochloromethane					CAS #: 74-97-5		
9.446	9.446 (1.000)	130	330852	10.0000		80.00- 120.00	100.00
9.446	9.446 (1.000)	128	260731			0.00- 30.00	78.81
9.418	9.446 (1.000)	49	624014			0.00- 30.00	188.61
* 60 1,4-Difluorobenzene					CAS #: 540-36-3		
10.718	10.718 (1.000)	114	1174339	10.0000		80.00- 120.00	100.00
10.718	10.718 (1.000)	88	183354			0.00- 46.27	15.61
* 80 Chlorobenzene-d5					CAS #: 3114-55-4		
15.916	15.916 (1.000)	117	903750	10.0000		80.00- 120.00	100.00
15.916	15.916 (1.000)	82	503432			0.00- 30.00	55.70
$ 57 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
10.165	10.165 (1.076)	65	473739	9.70983	9.710	80.00- 120.00	100.00
10.165	10.165 (1.076)	67	253273			24.94- 84.94	53.46
$ 70 Toluene-d8					CAS #: 2037-26-5		
13.317	13.317 (1.242)	98	1107193	9.38913	9.389	80.00- 120.00	100.00
13.317	13.317 (1.242)	70	121201			0.00- 40.90	10.95

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
$ 70 Toluene-d8 (continued)							
13.317	13.317 (1.242)	100	730896			37.77- 97.77	66.01
$ 92 Bromofluorobenzene					CAS #: 460-00-4		
17.768	17.768 (1.116)	174	466278	9.56810	9.568	80.00- 120.00	100.00
17.768	17.768 (1.116)	95	695950			123.96- 183.96	149.26
17.768	17.768 (1.116)	176	456500			67.65- 127.65	97.90
24 Acetone					CAS #: 67-64-1		
7.013	7.013 (0.742)	43	148072	2.02727	3.406	80.00- 120.00	100.00
7.013	7.013 (0.742)	58	42282			4.59- 64.59	28.56
44 2-Butanone					CAS #: 78-93-3		
9.197	9.197 (0.974)	72	14438	0.53817	0.9041	80.00- 120.00	100.00
9.197	9.197 (0.974)	43	82583			477.48- 537.48	571.98
9.197	9.197 (0.974)	57	5519			5.29- 65.29	38.23
72 Toluene					CAS #: 108-88-3		
13.455	13.455 (1.255)	91	86582	0.55989	0.9406	80.00- 120.00	100.00
13.427	13.455 (1.253)	92	49819			30.24- 90.24	57.54

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdy.i
Lab File ID: y031909.d
Lab Smp Id: 0803156-02A
Analysis Type: VOA
Quant Type: ISTD
Operator: dfm
Method File: /chem/msdy.i/y-19mar.b/t14ll0226b.m
Misc Info: 6.0"Hg-5psi

Calibration Date: 19-MAR-2008
Calibration Time: 10:06
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 Bromochloromethan	350664	210398	490930	330852	-5.65
60 1,4-Difluorobenze	1382074	829244	1934904	1174339	-15.03
80 Chlorobenzene-d5	1046603	627962	1465244	903750	-13.65

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 Bromochloromethan	9.45	9.12	9.78	9.45	0.00
60 1,4-Difluorobenze	10.72	10.39	11.05	10.72	0.00
80 Chlorobenzene-d5	15.92	15.59	16.25	15.92	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: y-19mar
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: 0803156-02A
Level: LOW Operator: dfm
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: Quant Type: ISTD
Sublist File: AT08.sub
Method File: /chem/msdy.i/y-19mar.b/t14ll0226b.m
Misc Info: 6.0"Hg-5psi

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 57 1,2-Dichloroethane	10.000	9.710	97.10	70-130
$ 70 Toluene-d8	10.000	9.389	93.89	70-130
$ 92 Bromofluorobenzene	10.000	9.568	95.68	70-130

Data File: /chem/msdy.i/y-19mar.b/y031909.d

Date : 19-MAR-2008 16:45

Client ID:

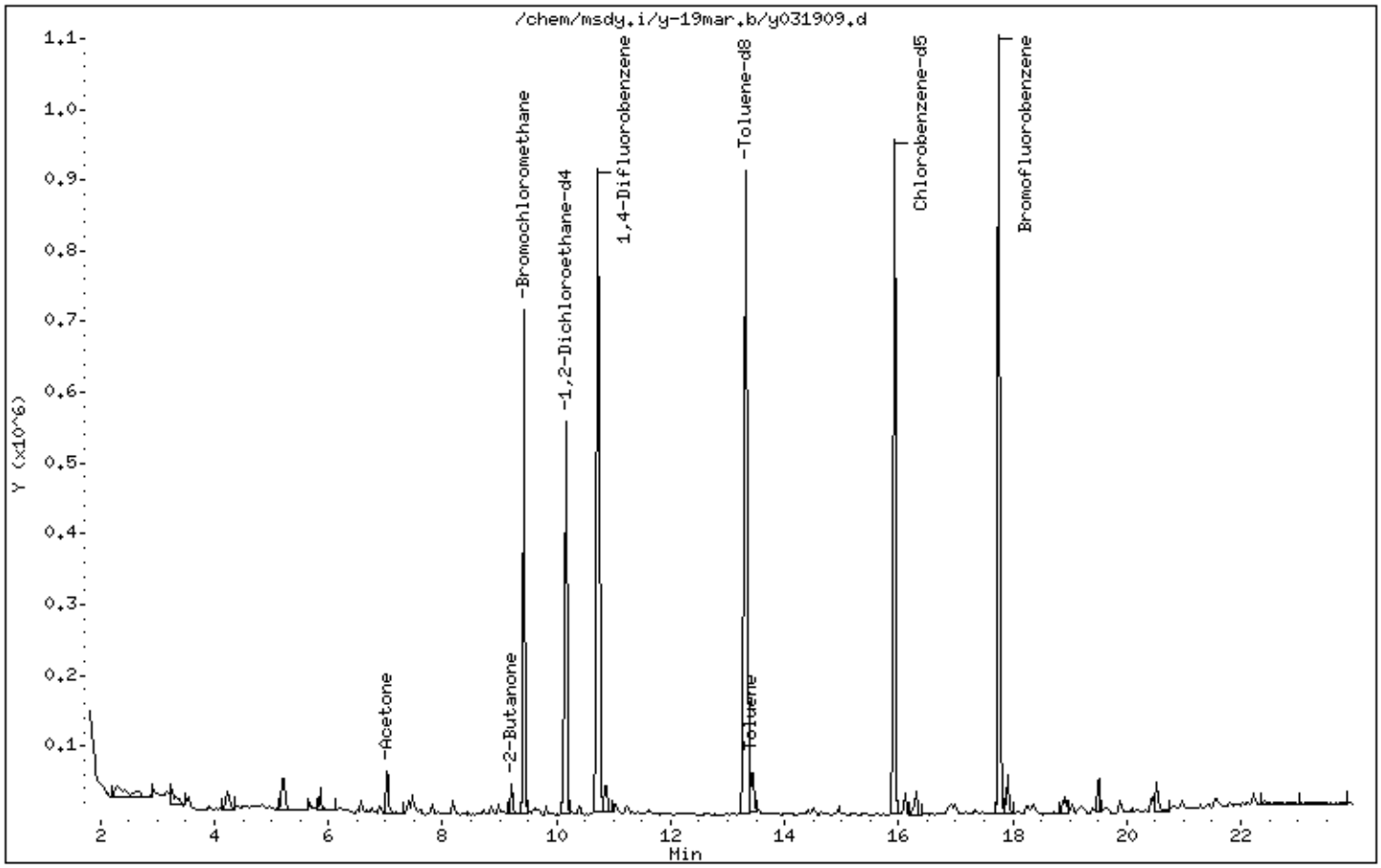
Instrument: msdy.i

Sample Info: 500mL #22678

Operator: dfm

Column phase: RTx-624

Column diameter: 0.32



Data File: /chem/msdy.i/y-19mar.b/y031909.d

Date : 19-MAR-2008 16:45

Client ID:

Instrument: msdy.i

Sample Info: 500mL #22678

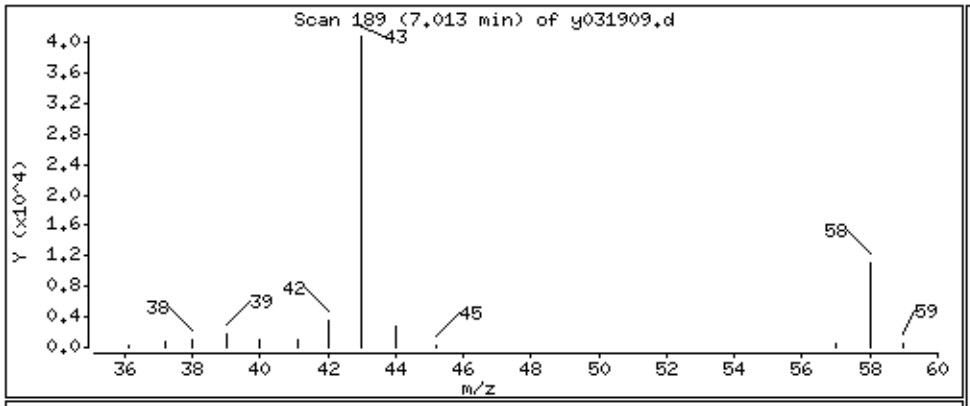
Operator: dfm

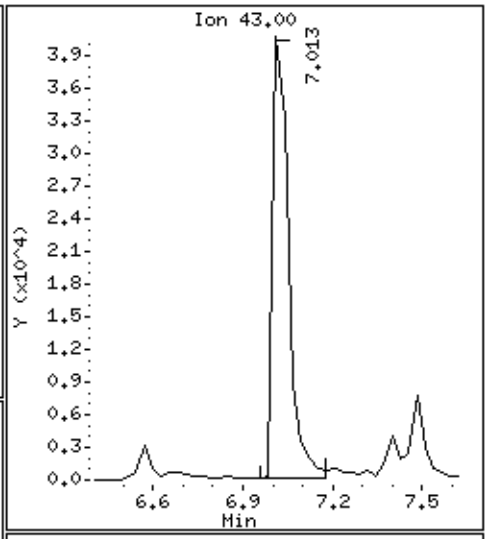
Column phase: RTx-624

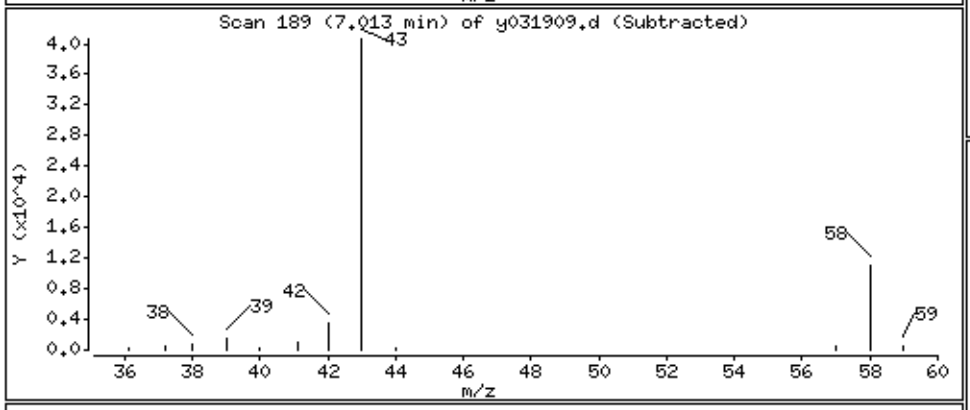
Column diameter: 0.32

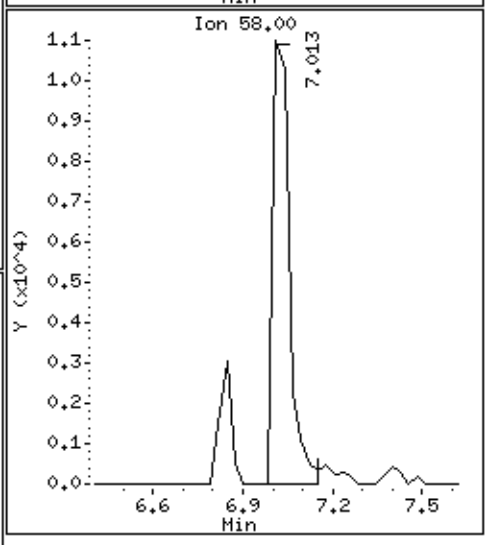
24 Acetone

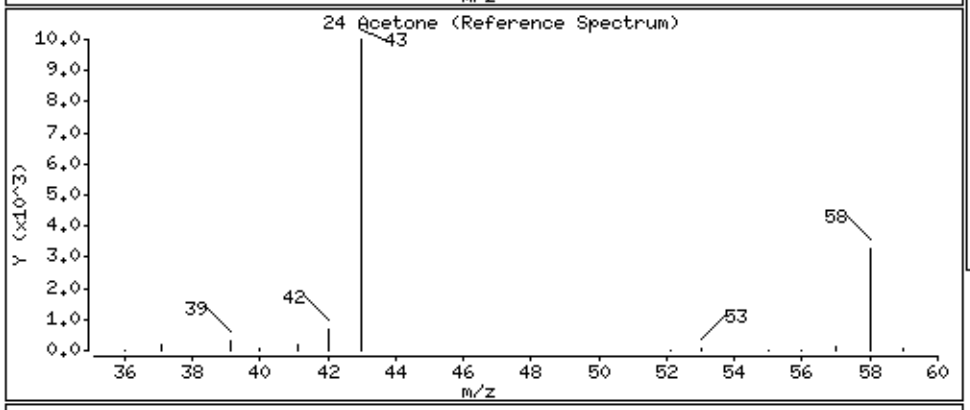
Concentration: 3.406 PPBV

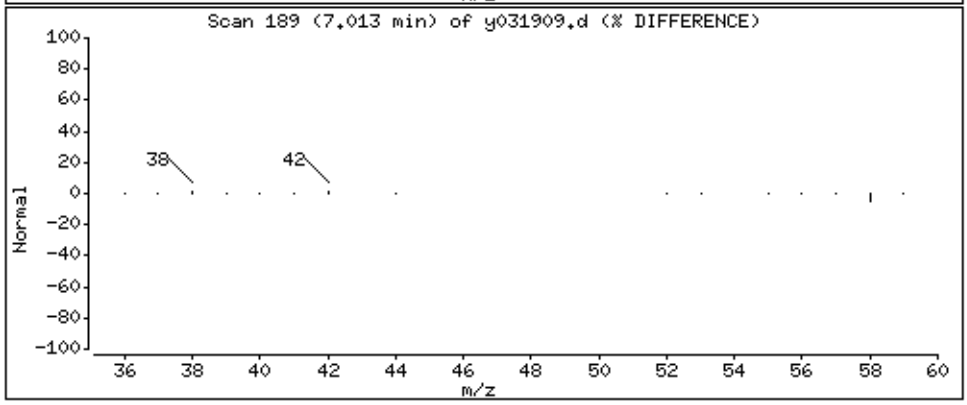












Data File: /chem/msdy.i/y-19mar.b/y031909.d

Date : 19-MAR-2008 16:45

Client ID:

Instrument: msdy.i

Sample Info: 500mL #22678

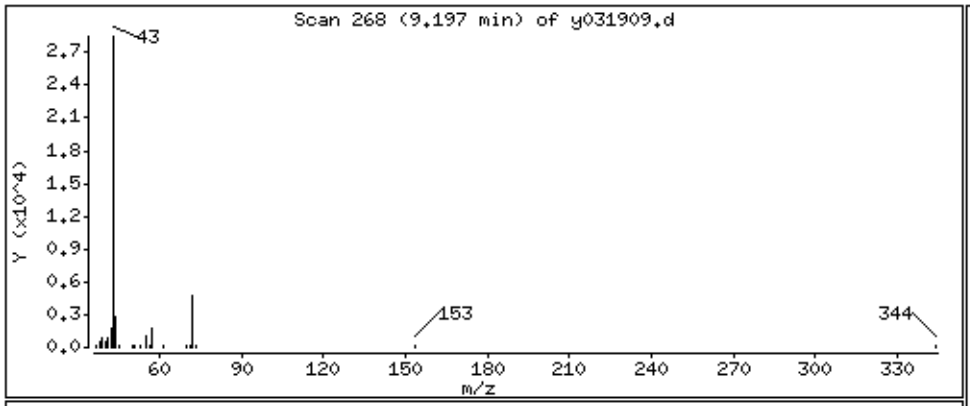
Operator: dfm

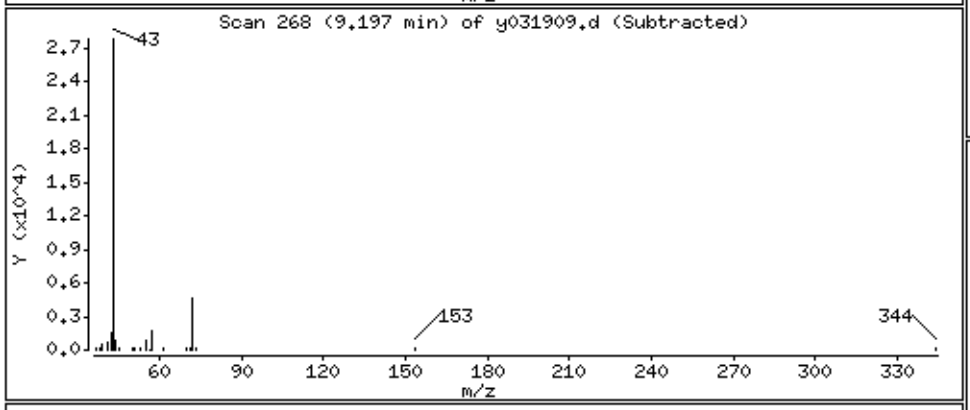
Column phase: RTx-624

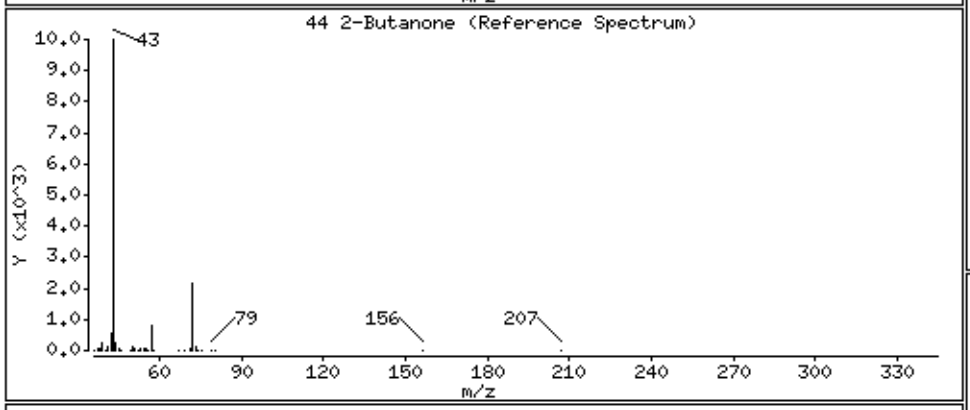
Column diameter: 0.32

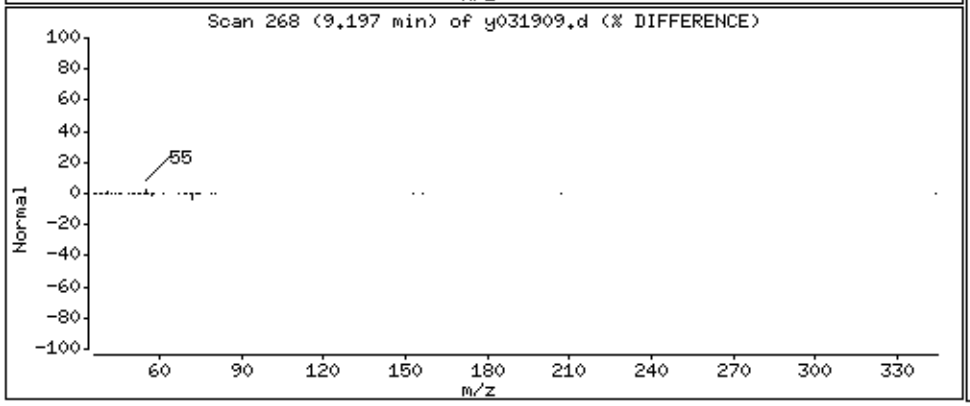
44 2-Butanone

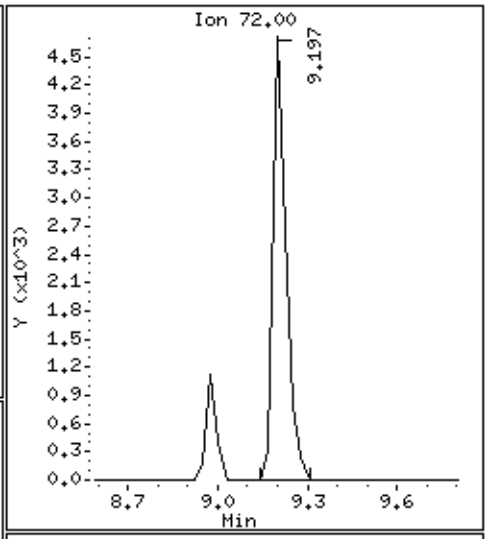
Concentration: 0.9041 PPBV

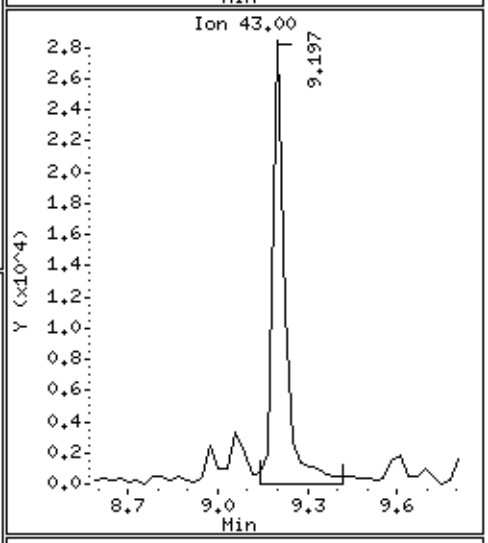


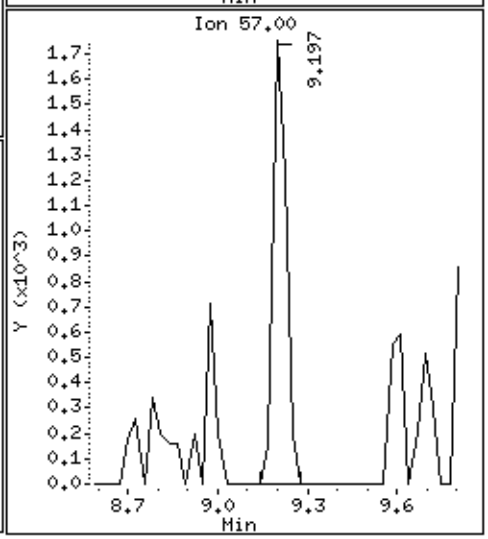












Data File: /chem/msdy.i/y-19mar.b/y031909.d

Date : 19-MAR-2008 16:45

Client ID:

Instrument: msdy.i

Sample Info: 500mL #22678

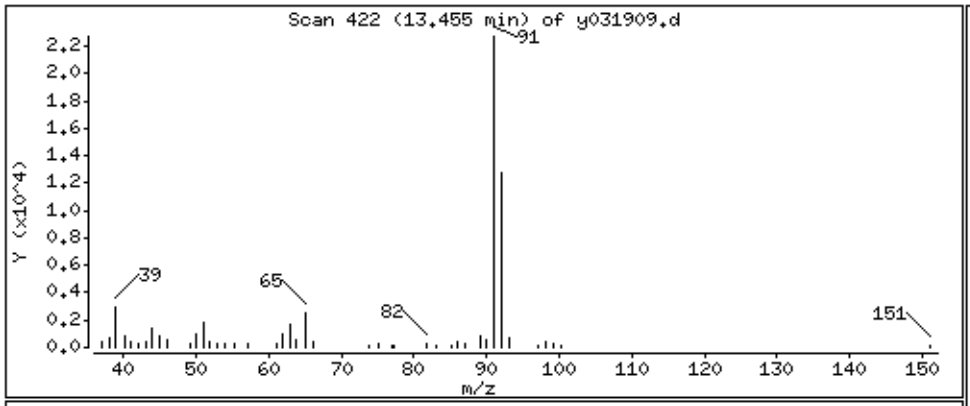
Operator: dfm

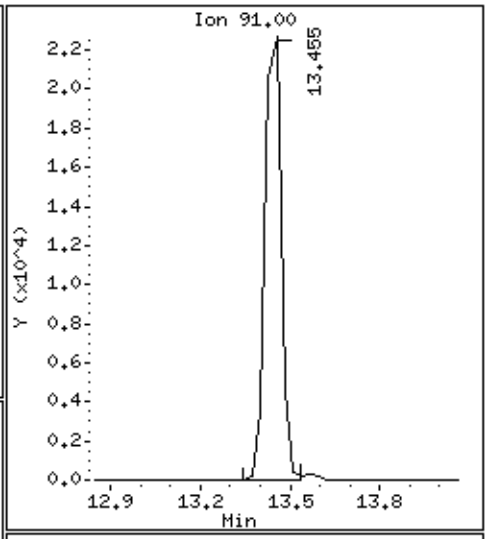
Column phase: RTx-624

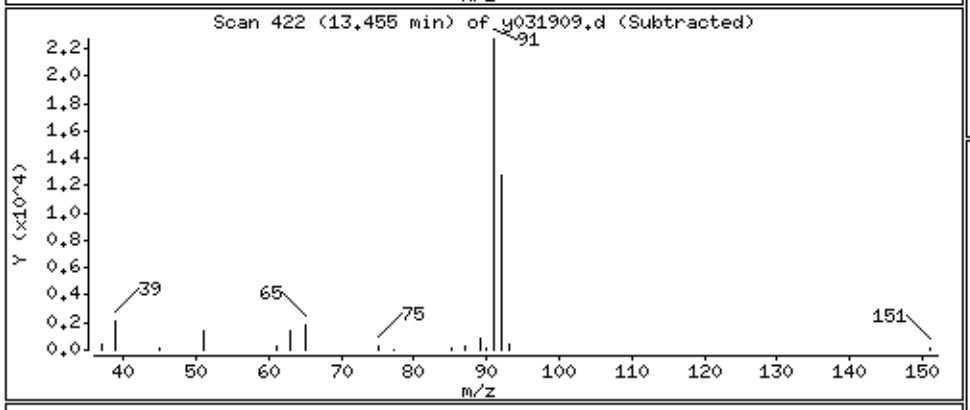
Column diameter: 0.32

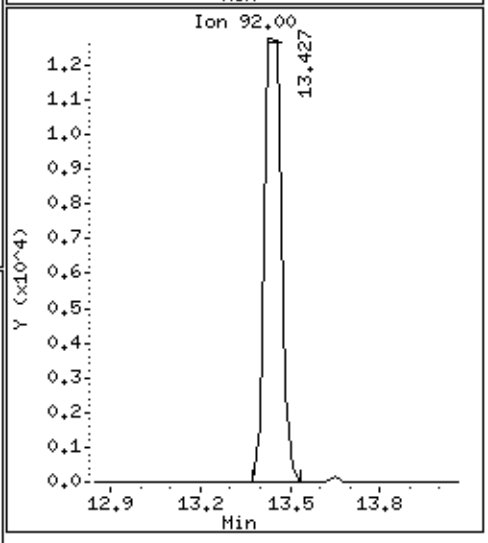
72 Toluene

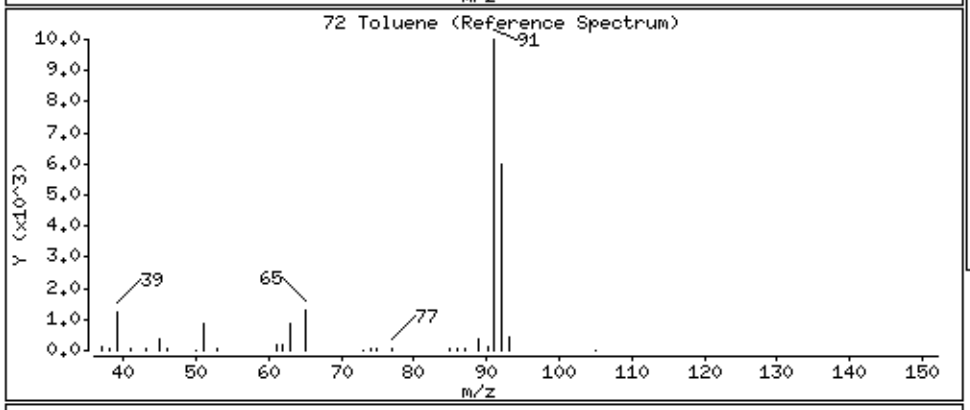
Concentration: 0.9406 PPBV

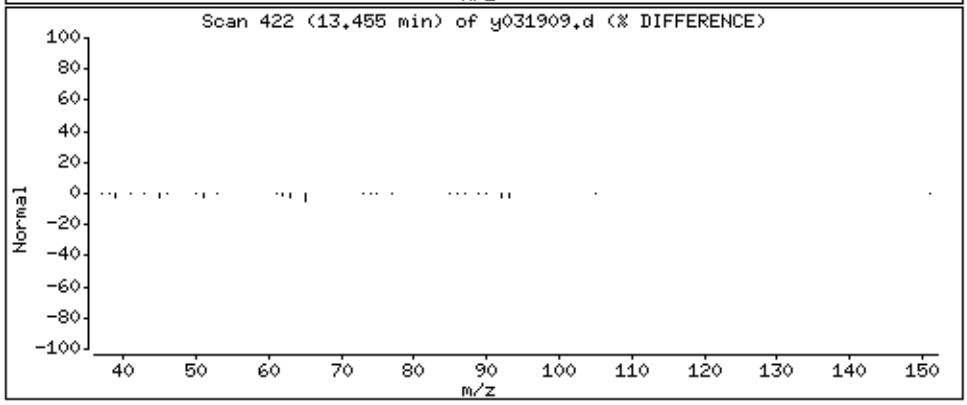












QC Results and Raw Data

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: Lab Blank

Lab ID#: 0803156-03A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**y031907a**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 3/19/08 02:51 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#: 0803156-03A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**y031907a**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 3/19/08 02:51 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	96	70-130
1,2-Dichloroethane-d4	98	70-130
4-Bromofluorobenzene	96	70-130

Air Toxics Ltd.

AMBIENT AIR METHOD TO14/TO15

Data file : /chem/msdy.i/y-19mar.b/y031907a.d
Lab Smp Id: Lab Blank Client Smp ID: Lab Blank
Inj Date : 19-MAR-2008 14:51
Operator : lmr Inst ID: msdy.i
Smp Info : 500mL #34242
Misc Info : humid
Comment :
Method : /chem/msdy.i/y-19mar.b/t14ll0226b.m
Meth Date : 19-Mar-2008 11:54 lrandolp Quant Type: ISTD
Cal Date : 12-MAR-2008 10:12 Cal File: y031126.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT08.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				CONCENTRATIONS ON-COL	CONCENTRATIONS FINAL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
* 47 Bromochloromethane					CAS #: 74-97-5		
9.446	9.446 (1.000)	130	280672	10.0000		80.00- 120.00	100.00
9.446	9.446 (1.000)	128	221297			0.00- 30.00	78.85
9.418	9.446 (1.000)	49	501285			0.00- 30.00	178.60
* 60 1,4-Difluorobenzene					CAS #: 540-36-3		
10.745	10.718 (1.000)	114	907040	10.0000		80.00- 120.00	100.00
10.718	10.718 (1.000)	88	144187			0.00- 46.27	15.90
* 80 Chlorobenzene-d5					CAS #: 3114-55-4		
15.916	15.916 (1.000)	117	708615	10.0000		80.00- 120.00	100.00
15.916	15.916 (1.000)	82	418394			0.00- 30.00	59.04
$ 57 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
10.165	10.165 (1.076)	65	404585	9.77501	9.775	80.00- 120.00	100.00
10.165	10.165 (1.076)	67	211273			24.94- 84.94	52.22
$ 70 Toluene-d8					CAS #: 2037-26-5		
13.317	13.317 (1.239)	98	873830	9.59391	9.594	80.00- 120.00	100.00
13.317	13.317 (1.239)	70	93628			0.00- 40.90	10.71

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
$ 70 Toluene-d8 (continued)							
13.317	13.317 (1.239)	100	566080			37.77- 97.77	64.78
$ 92 Bromofluorobenzene					CAS #: 460-00-4		
17.768	17.768 (1.116)	174	365107	9.55519	9.555	80.00- 120.00	100.00
17.768	17.768 (1.116)	95	533071			123.96- 183.96	146.00
17.768	17.768 (1.116)	176	343302			67.65- 127.65	94.03

Report Date: 20-Mar-2008 08:28

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdy.i
Lab File ID: y031907a.d
Lab Smp Id: Lab Blank
Analysis Type: VOA
Quant Type: ISTD
Operator: lmr
Method File: /chem/msdy.i/y-19mar.b/t14ll0226b.m
Misc Info: humid

Calibration Date: 19-MAR-2008
Calibration Time: 10:06
Client Smp ID: Lab Blank
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 Bromochloromethan	350664	210398	490930	280672	-19.96
60 1,4-Difluorobenze	1382074	829244	1934904	907040	-34.37
80 Chlorobenzene-d5	1046603	627962	1465244	708615	-32.29

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 Bromochloromethan	9.45	9.12	9.78	9.45	0.00
60 1,4-Difluorobenze	10.72	10.39	11.05	10.75	0.26
80 Chlorobenzene-d5	15.92	15.59	16.25	15.92	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: 20-Mar-2008 08:28

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: y-19mar
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: Lab Blank Client Smp ID: Lab Blank
Level: LOW Operator: lmr
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: Quant Type: ISTD
Sublist File: AT08.sub
Method File: /chem/msdy.i/y-19mar.b/t14ll0226b.m
Misc Info: humid

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 57 1,2-Dichloroethane	10.000	9.775	97.75	70-130
$ 70 Toluene-d8	10.000	9.594	95.94	70-130
$ 92 Bromofluorobenzene	10.000	9.555	95.55	70-130

Data File: /chem/msdy.i/y-19mar.b/y031907a.d

Date : 19-MAR-2008 14:51

Client ID: Lab Blank

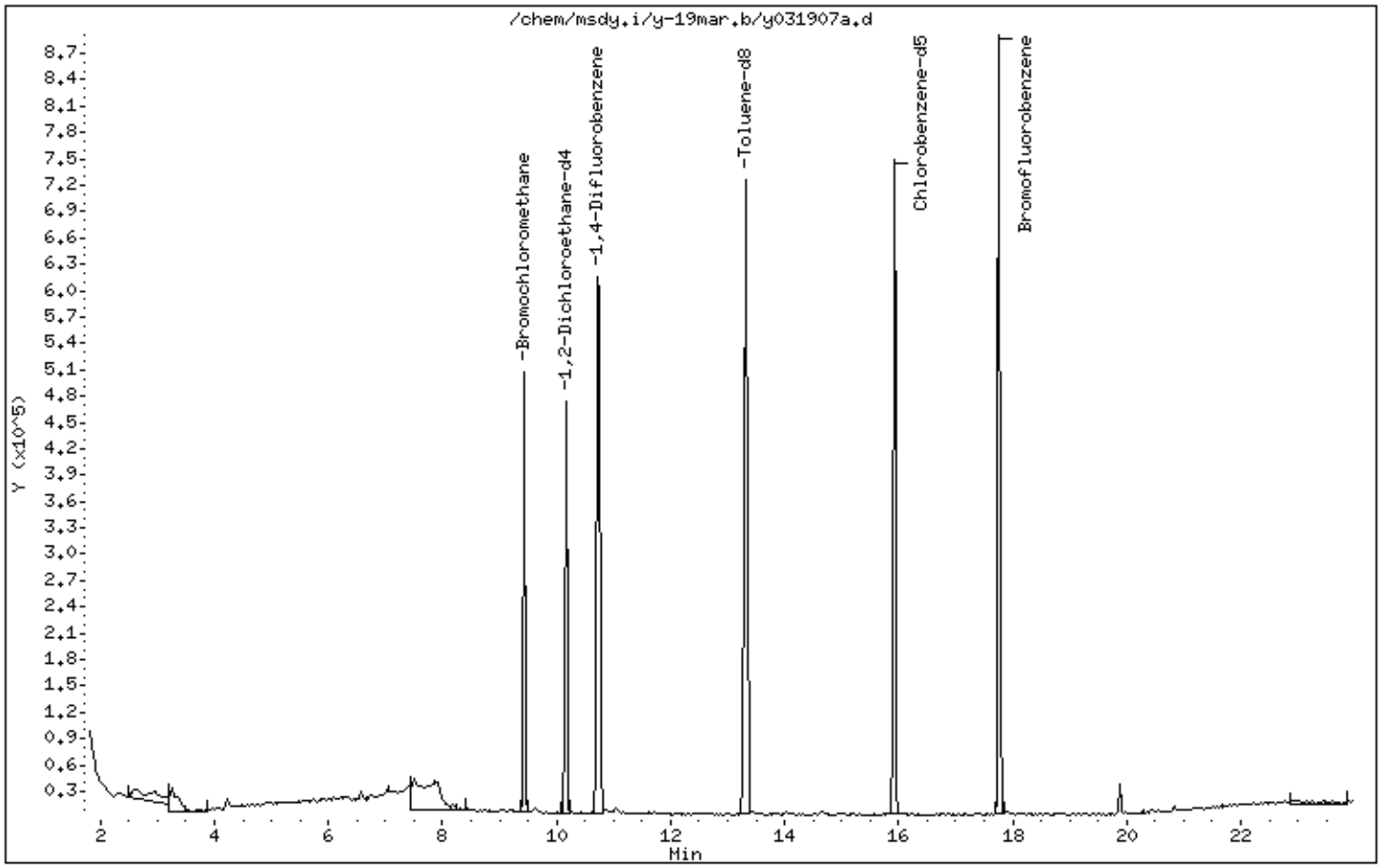
Instrument: msdy.i

Sample Info: 500mL #34242

Operator: lmr

Column phase: RTx-624

Column diameter: 0.32



LEVEL-IV VALIDATABLE

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

SURROGATE RECOVERY FORM

Lab Name: AIR TOXICS LIMITED. SDG No.: 0803156

	CLIENT SAMPLE NO.	SURROGATE % RECOVERY								
		1,2-Dichloroethane-d4	#	Toluene-d8	#	4-Bromofluorobenzene	#		#	TOTAL OUT
01	UW AMS 5	100		95		98				0
02	DW AMS 3	97		94		96				0
03	Lab Blank	98		96		96				0
04	CCV	99		99		101				0
05	LCS	97		99		100				0
06										0
07										0
08										0
09										0
10										0
11										0
12										0
13										0
14										0
15										0
16										0
17										0
18										0
19										0
20										0
21										0
22										0
23										0
24										0

Surrogate Recovery Limits

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

* Designates values outside of QC limits

LEVEL-IV VALIDATABLE

Modified EPA Method TO-15 GC/MS Full Scan

INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: AIR TOXICS, LTD
SDG No: 0803156
Lab File ID: y031903.d
Date Analyzed: 03/19/2008
Instrument ID: msdy.i
Time Analyzed: 10:06 AM

		Chlorobenzene-d5 Area	#	RT	#	1,4-Difluorobenzene Area	#	RT	#	Bromochloromethane Area	#	RT	#
	24-HOUR STD	1046603		15.92		1382074		10.72		350664		9.45	
	UPPER LIMIT	1465244		16.25		1934904		11.05		490930		09.78	
	LOWER LIMIT	627962		15.59		829244		10.39		210398		09.12	
	CLIENT SAMPLE NO												
01	UW AMS 5	934957		15.92		1217941		10.75		347051		9.45	
02	DW AMS 3	903750		15.92		1174339		10.72		330852		9.45	
03	Lab Blank	708615		15.92		907040		10.75		280672		9.45	
04	CCV	1046603		15.92		1382074		10.72		350664		9.45	
05	LCS	979227		15.92		1309880		10.72		335122		9.45	
06													
07													
08													
09													
10													
11													
12													
13													
14													
15													
16													
17													
18													
19													
20													
21													
22													

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

RT Upper Limit=+0.33 minutes of internal standard RT
RT Lower Limit=-0.33 minutes of internal standard RT

* Designates values outside of QC limits

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 26-FEB-2008 10:41
End Cal Date : 12-MAR-2008 10:12
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msdy.i/y-11mar.b/t14ll0226b.m
Cal Date : 12-Mar-2008 14:35 ejakob
Curve Type : Average

Calibration File Names:
Level 4: /chem/msdy.i/y-26feb.b/y022604.d
Level 5: /chem/msdy.i/y-26feb.b/y022617.d
Level 6: /chem/msdy.i/y-11mar.b/y031126.d
Level 7: /chem/msdy.i/y-26feb.b/y022607.d
Level 8: /chem/msdy.i/y-26feb.b/y022608.d
Level 9: /chem/msdy.i/y-11mar.b/y031106.d
Level 10: /chem/msdy.i/y-26feb.b/y022610.d
Level 11: /chem/msdy.i/y-11mar.b/y031107.d
Level 12: /chem/msdy.i/y-11mar.b/y031104.d

Compound	0.05000 Level 4	0.10000 Level 5	0.50000 Level 6	2.000 Level 7	5.000 Level 8	10.000 Level 9	___ RRF	% RSD
	20.000 Level 10	40.000 Level 11	0.25000 Level 12					
1 Freon 134a	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
2 Propylene	+++++	+++++	1.00961	0.99892	0.88072	0.92315		
	0.90041	0.86833	+++++				0.93019	6.493
3 Freon 152A	+++++	+++++	0.56568	+++++	+++++	0.55507		
	+++++	0.56381	+++++				0.56152	1.008
4 Dichlorodifluoromethane/Fr12	3.82257	3.17455	2.71701	2.83903	2.60698	2.71982		
	2.66093	2.58792	+++++				2.89110	14.534
5 Isobutane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
6 Freon 114	2.14323	2.08204	1.62871	1.79277	1.74595	1.76686		
	1.72373	1.74988	+++++				1.82915	9.959
7 Chloromethane	+++++	1.99893	1.30410	1.52271	1.25805	1.29766		
	1.34985	1.29925	+++++				1.43294	18.435

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 26-FEB-2008 10:41
End Cal Date : 12-MAR-2008 10:12
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msdy.i/y-11mar.b/t14ll0226b.m
Cal Date : 12-Mar-2008 14:35 ejakob
Curve Type : Average

Compound	0.05000 Level 4	0.10000 Level 5	0.50000 Level 6	2.000 Level 7	5.000 Level 8	10.000 Level 9	___ RRF	% RSD
	20.000 Level 10	40.000 Level 11	0.25000 Level 12					
8 Butane	+++++	+++++	0.30995	0.30164	0.27380	0.28747		
	0.25679	0.25255	+++++				0.28037	8.367
9 Vinyl Chloride	+++++	1.49978	1.31163	1.29349	1.20729	1.26547		
	1.22427	1.19875	+++++				1.28581	8.061
10 1,3-Butadiene	+++++	1.19497	0.90480	0.76320	0.78946	0.85921		
	0.86250	0.87282	+++++				0.89242	15.937
11 Freon 22	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
12 Bromomethane	+++++	0.81377	0.51878	0.76311	0.56464	0.63661		
	0.57542	0.78847	+++++				0.66583	18.114
13 Chloroethane	+++++	0.69788	0.60424	0.46125	0.39160	0.44495		
	0.49230	0.38607	+++++				0.49690	23.133
14 Isopentane	+++++	+++++	1.35616	1.09675	1.11111	1.21062		
	1.19972	1.12154	+++++				1.18265	8.234
15 Vinyl Bromide	+++++	+++++	0.49009	+++++	+++++	0.61309		
	+++++	0.57213	+++++				0.55843	11.216
16 Trichlorofluoromethane/Fr11	2.81015	2.69062	2.55883	2.30118	2.41442	2.60238		
	2.50891	2.44218	+++++				2.54108	6.367
17 Ethanol	+++++	+++++	0.87194	0.70696	0.49770	0.61989		
	0.56971	0.47641	+++++				0.62377	23.676

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	20.000 Level 10	40.000 Level 11	0.25000 Level 12					
18 1,1-Dichloroethene	+++++	0.74099	0.70173	0.50210	0.65757	0.70430		
	0.70502	0.58041	+++++				0.65602	12.972
19 Acrolein	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
20 Freon 113	1.53739	1.88460	1.62831	1.27491	1.56235	1.70478		
	1.73031	1.30599	+++++				1.57858	13.192
21 Carbon Disulfide	+++++	3.41122	3.50491	2.48903	3.34633	3.63336		
	3.68905	2.53500	+++++				3.22984	15.622
22 3-Chloroprene	+++++	+++++	3.50491	2.48903	3.34633	3.63336		
	3.68905	2.53500	+++++				3.19961	17.056
23 Pentane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
24 Acetone	+++++	+++++	2.88015	1.92159	2.19089	2.19165		
	2.19365	1.86790	+++++				2.20764	16.335
25 Methyl Acetate	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
26 2-Methylpentane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
27 Acetonitrile	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++

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	20.000 Level 10	40.000 Level 11	0.25000 Level 12						
28 2-Propanol	+++++	+++++	2.78484	1.92537	1.89742	2.73925			
	2.65742	1.91565	+++++				2.31999	19.310	
29 Methylene Chloride	+++++	1.64457	1.25756	0.61442	0.99526	1.04148			
	1.03799	0.61724	+++++				1.02979	34.877	<-
30 tert-Butyl Alcohol	+++++	+++++	+++++	+++++	+++++	1.30723			
	+++++	3.27056	+++++				2.28890	60.653	<-
31 Acrylonitrile	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	
32 MTBE	5.48317	4.13594	3.99984	2.89794	3.74341	4.00903			
	4.00745	2.55820	+++++				3.85437	22.804	
33 trans-1,2-Dichloroethene	+++++	0.88397	0.91051	0.57041	0.81519	0.88589			
	0.88743	0.52336	+++++				0.78239	20.975	
34 Hexane	+++++	3.20810	2.97749	3.04248	2.71485	2.94011			
	2.90950	3.25608	+++++				3.00694	6.131	
35 Vinyl Acetate	+++++	+++++	2.05081	3.09176	2.34511	2.84243			
	3.01827	3.80215	+++++				2.85842	21.490	
36 Isopropyl Ether	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	
37 Chlorprene	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++	+++++	+++++				+++++	+++++	

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	20.000 Level 10	40.000 Level 11	0.25000 Level 12					
38 1,1-Dichloroethane	+++++	3.09221	3.02404	2.86798	2.69798	2.88473		
	2.85340	2.98983	+++++				2.91574	4.492
39 2,4-Dimethylpentane	+++++	+++++	2.27686	+++++	+++++	3.57282		
	+++++	3.77536	+++++				3.20835	25.341
40 Ethyl-tert-Butyl Ether	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
41 2,2-Dichloropropane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
42 Ethyl Acetate	+++++	+++++	2.22412	+++++	+++++	4.13669		
	+++++	4.49992	+++++				3.62024	33.772
43 cis-1,2-Dichloroethene	+++++	1.13251	0.96938	0.93185	0.90109	0.94803		
	0.95022	0.93057	+++++				0.96624	7.898
44 2-Butanone	+++++	1.00863	0.78997	0.79144	0.70473	0.79471		
	0.78573	0.80091	+++++				0.81087	11.501
45 Tetrahydrofuran	+++++	+++++	2.24902	2.23207	2.14291	2.27064		
	2.28899	2.26662	+++++				2.24171	2.327
46 2,3-Dimethylpentane	+++++	+++++	0.18923	+++++	+++++	0.25772		
	+++++	0.25796	0.20894				0.22846	15.259
48 Chloroform	+++++	2.85064	2.84306	2.71462	2.62066	2.78687		
	2.74892	2.78249	+++++				2.76389	2.873

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	20.000 Level 10	40.000 Level 11	0.25000 Level 12					
49 1,1-Dichloropropene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
50 Cyclohexane	+++++	2.72133	2.41277	2.31542	2.17400	2.33640		
	2.27184	2.22792	+++++				2.35138	7.670
51 1,1,1-Trichloroethane	4.01917	3.11906	2.83391	2.94902	2.66372	2.86838		
	2.82740	2.79377	+++++				3.00930	14.238
52 Carbon Tetrachloride	2.40411	1.65360	1.88600	2.24662	2.29645	2.45434		
	2.50528	2.57035	+++++				2.25210	14.276
53 tert-Amyl Methyl Ether	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
54 Thiophene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
55 2,2,4-Trimethylpentane	+++++	3.99425	3.14199	3.27562	2.85405	3.08312		
	3.00276	3.41023	+++++				3.25172	11.490
56 Benzene	+++++	2.09471	1.33151	1.16321	1.06835	1.09679		
	1.06758	1.04495	+++++				1.26673	29.845
58 1,2-Dichloroethane	+++++	0.50157	0.53257	0.46428	0.46383	0.49007		
	0.47899	0.46916	+++++				0.48578	5.128
59 Heptane	+++++	0.88191	0.86424	0.83396	0.83425	0.84850		
	0.82879	0.84740	+++++				0.84844	2.240

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	20.000 Level 10	40.000 Level 11	0.25000 Level 12					
61 Trichloroethene	0.63341	0.51872	0.48100	0.44818	0.45524	0.46128		
	0.45113	0.43508	+++++				0.48550	13.398
62 Dibromomethane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
63 Methylcyclohexane	+++++	+++++	3.09065	3.17339	2.92329	3.07842		
	3.05084	3.08535	+++++				3.06699	2.659
64 1,2-Dichloropropane	+++++	0.45026	0.46981	0.45439	0.44390	0.45298		
	0.44333	0.43380	+++++				0.44978	2.510
65 1,4-Dioxane	+++++	0.16422	0.19132	0.25265	0.16485	0.24475		
	0.24244	0.25105	+++++				0.21590	18.914
66 Bromodichloromethane	0.91315	0.67401	0.64826	0.63659	0.65027	0.69048		
	0.67530	0.66146	+++++				0.69369	13.025
67 cis-1,3-Dichloropropene	+++++	0.56880	0.55956	0.56308	0.56247	0.59453		
	0.59072	0.58456	+++++				0.57482	2.556
68 4-Methyl-2-pentanone	+++++	0.97596	0.90248	1.04190	0.86207	1.04552		
	1.03174	1.04532	+++++				0.98643	7.711
69 Octane	+++++	+++++	0.34996	+++++	+++++	0.49648		
	+++++	0.51254	+++++				0.45299	19.778
71 1,3-Dichloropropane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++

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	20.000 Level 10	40.000 Level 11	0.25000 Level 12					
72 Toluene	+++++	1.55774	1.31654	1.30440	1.24959	1.27621		
	1.26305	1.25025	+++++				1.31683	8.301
73 trans-1,3-Dichloropropene	+++++	0.72514	0.71775	0.76681	0.77745	0.82984		
	0.83559	0.84100	+++++				0.78479	6.621
74 1,1,2-Trichloroethane	0.80811	0.69298	0.64867	0.59270	0.59897	0.61033		
	0.60127	0.58880	+++++				0.64273	11.762
75 Tetrachloroethene	1.03728	0.81845	0.79788	0.71519	0.73027	0.73851		
	0.74012	0.70339	+++++				0.78514	13.922
76 2-Hexanone	+++++	+++++	0.64049	0.72574	0.53929	0.77099		
	0.79646	0.79949	+++++				0.71208	14.513
77 Dibromochloromethane	0.81397	0.78986	0.84182	0.81757	0.86888	0.91205		
	0.93407	0.92628	+++++				0.86306	6.460
78 1,2-Dibromoethane	1.12322	0.92313	0.93563	0.86402	0.88340	0.91909		
	0.91772	0.90156	+++++				0.93347	8.582
79 1,1,1,2-Tetrachloroethane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
81 Chlorobenzene	+++++	1.71308	1.60671	1.46564	1.47665	1.51163		
	1.47945	1.44535	+++++				1.52836	6.345
82 Nonane	+++++	+++++	1.20353	+++++	+++++	2.09432		
	+++++	2.19517	+++++				1.83101	29.806

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	20.000 Level 10	40.000 Level 11	0.25000 Level 12					
83 1,3,5-Trichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
84 Ethyl Benzene	+++++	0.83445	0.83699	0.77002	0.78944	0.80691		
	0.80442	0.77968	+++++				0.80313	3.206
85 m,p-Xylene	+++++	0.97032	1.09156	0.99799	0.99698	1.02344		
	1.02447	0.98981	+++++				1.01351	3.875
86 o-Xylene	+++++	0.95830	1.01396	0.93893	0.93771	0.98217		
	0.96140	0.92336	+++++				0.95940	3.209
87 Styrene	+++++	1.37654	1.48173	1.47967	1.49994	1.57759		
	1.56276	1.54334	+++++				1.50308	4.526
88 alpha-Pinene	+++++	+++++	1.23530	+++++	+++++	2.17164		
	+++++	2.21150	+++++				1.87281	29.499
89 Bromoform	0.72836	0.50863	0.61818	0.69687	0.72337	0.78955		
	0.79782	0.80420	+++++				0.70837	14.373
90 Cumene	+++++	2.92451	2.91726	2.69109	2.73836	2.81427		
	2.78911	2.79261	+++++				2.80960	3.070
91 1,2,3-Trichloropropane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
93 2-Chlorotoluene	+++++	+++++	0.61739	+++++	+++++	0.78530		
	+++++	0.78210	+++++				0.72826	13.187

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	20.000 Level 10	40.000 Level 11	0.25000 Level 12					
94 1,1,2,2-Tetrachloroethane	1.74270	1.27746	1.34693	1.30819	1.30710	1.35238		
	1.34728	1.36788	+++++				1.38124	10.794
95 Decane	+++++	+++++	1.44433	+++++	+++++	2.34112		
	+++++	2.42212	+++++				2.06919	26.226
96 Propylbenzene	+++++	3.28281	3.59833	3.37818	3.38329	3.47270		
	3.47803	3.47705	+++++				3.43863	2.925
97 4-Ethyltoluene	+++++	2.86027	3.02446	2.92958	2.90012	2.99354		
	2.98495	2.99243	+++++				2.95505	2.013
98 1,3,5-Trimethylbenzene	+++++	2.39517	2.55474	2.41016	2.36982	2.48567		
	2.43228	2.45613	+++++				2.44343	2.551
99 tert-Butylbenzene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
100 Pentachloroethane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
101 sec-Butylbenzene	+++++	+++++	2.84650	+++++	+++++	4.03243		
	+++++	4.06568	+++++				3.64820	19.037
102 1,2,4-Trimethylbenzene	+++++	2.27327	2.44956	2.37747	2.33800	2.41200		
	2.40497	2.45724	+++++				2.38750	2.716
103 p-Cymene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++

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104 1,2,3-Trimethylbenzene	+++++	+++++	0.73012	+++++	+++++	1.10134		
	+++++	1.12759	+++++				0.98635	22.537
105 1,3-Dichlorobenzene	1.75881	1.57087	1.53057	1.54593	1.45416	1.51310		
	1.48146	1.51781	+++++				1.54659	6.017
106 1,4-Dichlorobenzene	1.82473	1.60214	1.63886	1.54477	1.47703	1.53100		
	1.53595	1.57031	+++++				1.59060	6.688
107 Indan	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
108 Butylbenzene	+++++	+++++	0.60235	+++++	+++++	0.89328		
	+++++	0.86296	+++++				0.78620	20.343
109 alpha-chlorotoluene	1.90188	1.41609	1.46005	1.80401	1.70818	2.01395		
	2.13637	2.38864	+++++				1.85364	17.825
110 Indene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
111 Hexachloroethane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
112 1,2-Dichlorobenzene	1.87551	1.49072	1.47228	1.48144	1.37309	1.43437		
	1.43544	1.48732	+++++				1.50627	10.243
113 1,2-Dibromo-3-chloropropane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++

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End Cal Date : 12-MAR-2008 10:12
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msdy.i/y-11mar.b/t14ll0226b.m
Cal Date : 12-Mar-2008 14:35 ejakob
Curve Type : Average

Compound	0.05000 Level 4	0.10000 Level 5	0.50000 Level 6	2.000 Level 7	5.000 Level 8	10.000 Level 9	___ RRF	% RSD
	20.000 Level 10	40.000 Level 11	0.25000 Level 12					
114 1,2,4-Trichlorobenzene	+++++	+++++	1.06939	1.10768	0.91767	1.06626		
	1.06150	1.12968	+++++				1.05870	7.006
115 Hexachlorobutadiene	+++++	+++++	0.77262	0.78412	0.70167	0.77261		
	0.76508	0.78143	+++++				0.76292	4.034
116 1,2,3-Trichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
117 Naphthalene	+++++	+++++	2.29250	2.53921	1.89068	2.45196		
	2.55484	2.81613	+++++				2.42422	12.869
$ 57 1,2-Dichloroethane-d4	1.44651	1.45007	1.42628	1.50853	1.43447	1.46701		
	1.48713	1.57733	+++++				1.47467	3.367
$ 70 Toluene-d8	1.02492	0.99761	0.98611	1.04129	1.01052	0.98378		
	0.99784	0.99124	+++++				1.00416	2.006
$ 92 Bromofluorobenzene	0.55906	0.51866	0.54978	0.53355	0.54073	0.52720		
	0.53896	0.54587	+++++				0.53923	2.378

Calibration History

Method : /chem/msdy.i/y-11mar.b/t14ll0226b.m
Start Cal Date: 26-FEB-2008 10:41
End Cal Date : 12-MAR-2008 10:12

Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 4 , Cal Amount: 0.05000		
26-FEB-2008 10:41	Level05	/chem/msdy.i/y-26feb.b/y022604.d
Cal Level: 5 , Cal Amount: 0.10000		
26-FEB-2008 22:04	Level#1	/chem/msdy.i/y-26feb.b/y022617.d
Cal Level: 6 , Cal Amount: 0.50000		
12-MAR-2008 10:12	sp14b	/chem/msdy.i/y-11mar.b/y031126.d
26-FEB-2008 11:57	AT06ENSRmdl	/chem/msdy.i/y-26feb.b/y022606.d
Cal Level: 7 , Cal Amount: 2.00000		
26-FEB-2008 13:25	AT06ENSR	/chem/msdy.i/y-26feb.b/y022607.d
Cal Level: 8 , Cal Amount: 5.00000		
26-FEB-2008 13:56	AT06ENSR	/chem/msdy.i/y-26feb.b/y022608.d
Cal Level: 9 , Cal Amount: 10.00000		
11-MAR-2008 17:44	sp14b	/chem/msdy.i/y-11mar.b/y031106.d
26-FEB-2008 14:47	AT06ENSR	/chem/msdy.i/y-26feb.b/y022609.d
Cal Level: 10, Cal Amount: 20.00000		
26-FEB-2008 15:28	AT06ENSR	/chem/msdy.i/y-26feb.b/y022610.d
Cal Level: 11, Cal Amount: 40.00000		

11-MAR-2008 18:20	sp14b	/chem/msdy.i/y-11mar.b/y031107.d
26-FEB-2008 16:07	AT06ENSR	/chem/msdy.i/y-26feb.b/y022611.d

Cal Level: 12, Cal Amount: 0.25000		
11-MAR-2008 16:04	sp1b	/chem/msdy.i/y-11mar.b/y031104.d

Continuing Calibration
Ccal Level Mode: GLOBAL LEVEL 8

Ccal Level: 8 , Ccal Amount: 5.000		
11-MAR-2008 13:53	AT06ENSR	/chem/msdy.i/y-11mar.b/y031102.d
Ccal Level: 9 , Ccal Amount: 10.000		
11-MAR-2008 17:44	sp14b	/chem/msdy.i/y-11mar.b/y031106a.d
Ccal Level: 6 , Ccal Amount: 0.5000		
12-MAR-2008 10:12	sp14b	/chem/msdy.i/y-11mar.b/y031126.d
Ccal Level: 6 , Ccal Amount: 0.5000		
11-MAR-2008 16:40	sp14b	/chem/msdy.i/y-11mar.b/y031105a.d
Ccal Level: 9 , Ccal Amount: 10.000		
11-MAR-2008 17:44	sp14b	/chem/msdy.i/y-11mar.b/y031106.d

Initial Calibration Narrative

An initial calibration curve was analyzed on 02/26/08 on MSD-Y. The instrument was set up to do Full Scan only.

Calibration Level 5 (0.1 ppbv) was re-analyzed due to anomalous unacceptable linearity for Chloroethane.

A special calibration curve was analyzed on 3/11/08.

Calibration Level 6 was re-analyzed due to anomalous unacceptable linearity for Butylbenzene.

@ Air Toxics Ltd.

MSD-Y

Logbook #: 1630

0055

m/z	ION ABUNDANCE CRITERIA	% REL. ABUNDANCE
50	15.0 – 40.0% of mass 95	20.40
75	30.0 – 60.0% of mass 95	44.79
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	(1.12)[1]
174	Greater than 50.0% of mass 95	62.31
175	5.0 – 9.0% of mass 174	(7.38)[1]
176	Greater than 95.0% but less than 101.0% of mass 174	(95.38)[1]
177	5.0 – 9.0% of mass 176	(6.54)[2]

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

BFB Injection Date: 2/26/08
BFB Injection Time: 1029
BFB File ID: Y022603
Tekmar Purge Flow: 30.5 mL/min
Vacuum: 8.4×10^{-6}

IS/S Std.#: 1576-295		Exp. Date: 5/19/08
BCM	420808	
1,4-DFB	1780063	
CB-d5	1282640	

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

Verify 176/174 m/z Ratio: 641856/672960 x100 = 95.38%

Calculation Check:

ppbv of compound = $\frac{Area_{Sample}}{Area_{IS}} \times \frac{Conc._{IS}}{RRF} = \frac{(\quad)}{(\quad)} \times \frac{(\quad)}{(\quad)}$ = 08 2/27/08

File ID:	
Compound:	
Initials:	

Reported Result ___

	Use	File #	Sample / Client Name	Can #	Pressure	Amt Loaded	DF	Date Analyzed	Time Analyzed	Review Init.	Comments
1	✓	Y022603	BFB Tune Check	1476-196	50 ng	2.0 mL	1.0	2-26-08	1029	DB	
2	✓	04	ICAL Level 4	1576-301	0.05 ppbv	500 mL			1041		
3	X	05		5 1576-300	0.1 ppbv	25 mL			1123		Chloroethane out
4	✓	06		6	0.5 ppbv	125 mL			1157		
5	✓	07		7	2.0 ppbv	500 mL			1325		
6	✓	08		8 1576-287	5.0 ppbv	50 mL			1356		
7	✓	09		9	10 ppbv	100 mL			1447		
8	✓	10		10	20 ppbv	200 mL			1528		
9	✓	11		11	40 ppbv	400 mL			1607	✓	

Diane Burton
Signature

2/27/08
Date

@ Air Toxics Ltd. **MSD-Y** Logbook #: 1630

0059

10	X	Y0226 12	System Blank	30843	Humid	500mL	1.0	2-26-08	1712	DB		
11	X	13	↓	↓	↓	↓			1820	DB		
12	X	14	System Blank	Dry	NA	500mL			1910			
13	✓	15	System Blank	33878	Humid	500mL			2001			
14	✓	16	↓	30843	↓	↓			2106			
15	✓	17	ICAL Level 5	1576-300	0.1 ppbv	25mL	↓	↓	2204	↓		
16												
17												
18									DB	2/27/08		
19												
20												
21												
22												
23												
24												
25												
26												
27												
28												
29												
30												
31												
32												

Comments: Flow Controller AA9211057

NIST Flow meter 200-774 8/08

25 ml/min → 23.6 ml/min

50 ml/min → 48.0 ml/min

Diane Burton
Signature

2/25/08
Date

@ Air Toxics Ltd.

MSD-Y

Logbook #: 1630

00577

m/z	ION ABUNDANCE CRITERIA	% REL. ABUNDANCE
50	15.0 – 40.0% of mass 95	20.53
75	30.0 – 60.0% of mass 95	44.07
95	Base peak, 100.00% relative abundance	100.00
96	5.0 – 9.0% of mass 95	6.49
173	Less than 2.0% of mass 174	(1.13)[1]
174	Greater than 50.0% of mass 95	62.06
175	5.0 – 9.0% of mass 174	(7.37)[1]
176	Greater than 95.0% but less than 101.0% of mass 174	(95.14)[1]
177	5.0 – 9.0% of mass 176	(6.40)[2]

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

BFB Injection Date: 2/28/08
BFB Injection Time: 1019
BFB File ID: 4022801
Tekmar Purge Flow: 2
Vacuum: 25 2/28/08

IS/S Std.#:	1576-295	Exp. Date: 5/19/08
BCM	508287	
1,4-DFB	2175874	
CB-d5	1531066 0	

Verified CCV IS vs ICAL mid-point (- 40%D) ____ *Initials*

Verify 176/174 m/z Ratio: 596160 / 626688 · 100 = 95.13%

Calculation Check:

ppbv of compound = $\frac{\text{Area}_{\text{Sample}}}{\text{Area}_{\text{IS}}} \times \frac{\text{Conc.}_{\text{IS}}}{\text{RRF}} = \frac{(\ 2125837\ )}{(\ 2175874\ )} \times \frac{(\ 10\ )}{(\ 1.00416\ )} = 9.730$

Reported Result 9.730

File ID: 4022802
Compound: TOL-d8
Initials:

	Use	File #	Sample / Client Name	Can #	Pressure	Amt Loaded	DF	Date Analyzed	Time Analyzed	Review Init.	Comments
1	✓	4022801	BFB Tune Check	14761196	50 psig	2 mL	1.0	2/28/08	1019		
2	✓	02	CCV # 1576-287	50 ppbv	5 ppbv	50 mL			1057		
3	✓	03	LCS # 1576-253	↓	↓	↓			1140		ICAL LCS
4	X	04	System Blank	34242	Humid	500 mL			1236		
5	X	05	↓ Blank	33878	Humid	500 mL	1.0		1359		
6	X	06	System Blank	NA	Dry	500 mL	1.0		1450		
7	X	07	↓	↓	↓	↓	↓		1526		
8	X	08	↓	↓	↓	↓	↓		1600		
9	✓	09	Lab Blank	33878	Humid	500mL	1.0	↓	1639		ATO6 ensr

Signature

2/28/08
Date

@ Air Toxics Ltd.

MSD-Y

Logbook #: 1630

0058

m/z	ION ABUNDANCE CRITERIA	% REL. ABUNDANCE
50	15.0 – 40.0% of mass 95	21.50
75	30.0 – 60.0% of mass 95	45.79
95	Base peak, 100.00% relative abundance	100.00
96	5.0 – 9.0% of mass 95	6.81
173	Less than 2.0% of mass 174	(0.99)[1]
174	Greater than 50.0% of mass 95	63.86
175	5.0 – 9.0% of mass 174	(7.13)[1]
176	Greater than 95.0% but less than 101.0% of mass 174	(95.64)[1]
177	5.0 – 9.0% of mass 176	(6.54)[2]

[1] - value in parenthesis is % mass 174

[2] - value in parenthesis is % mass 176

BFB Injection Date: 3-11-08

BFB Injection Time: 1335

BFB File ID: Y031101

Tekmar Purge Flow: 2

Vacuum:

IS/S Std.#:	1576-295	Exp. Date: 5-19-08
BCM	424498	
1,4-DFB	1681620	
CB-d5	1202867	

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

Verify 176/174 m/z Ratio: 532466/556673 x100% = 95.64%

Calculation Check:

ppbv of compound = $\frac{\text{Area}_{\text{Sample}}}{\text{Area}_{\text{IS}}} \times \frac{\text{Conc.}_{\text{IS}}}{\text{RRF}} = \frac{(\ 1678053\ )}{(\ 1681620\ )} \times \frac{(\ 10.0\ )}{(\ 1.002416\ )} =$ 9.9374

File ID:	Y031102
Compound:	Toluene-d8
Initials:	BS

Reported Result 9.937

	Use	File #	Sample / Client Name	Can #	Pressure	Amt Loaded	DF	Date Analyzed	Time Analyzed	Review Init.	Comments
1	✓	Y031101	BCM Tune check	1436-158	50psig	2mL	1.00	3-11-08	1335	BS	
2	✓	02	CCV #1541-64	50psig	5.0psig	50mL			1353	BS	
3	✓	03	LCS #1576-253	↓	↓	↓			1431	BS	
4	✓	04	ICAL Level #2	1576-316	2.0→0.25psig	62.5mL			1604	BS	
5	✓	05	6	1	2.0→0.5psig	125mL			1640	BS	
6	✓	06	9	1576-315	50→10psig	200mL			1744	BS	
7	✓	07	11	↓	40psig	400mL			1820	BS	
8	X	08	System Blank	1425	Humid	50mL			1856	BS	
9	✓	09	System Blank	4129	Humid	50mL	↓	↓	2001	BS	

Signature

5/14/08

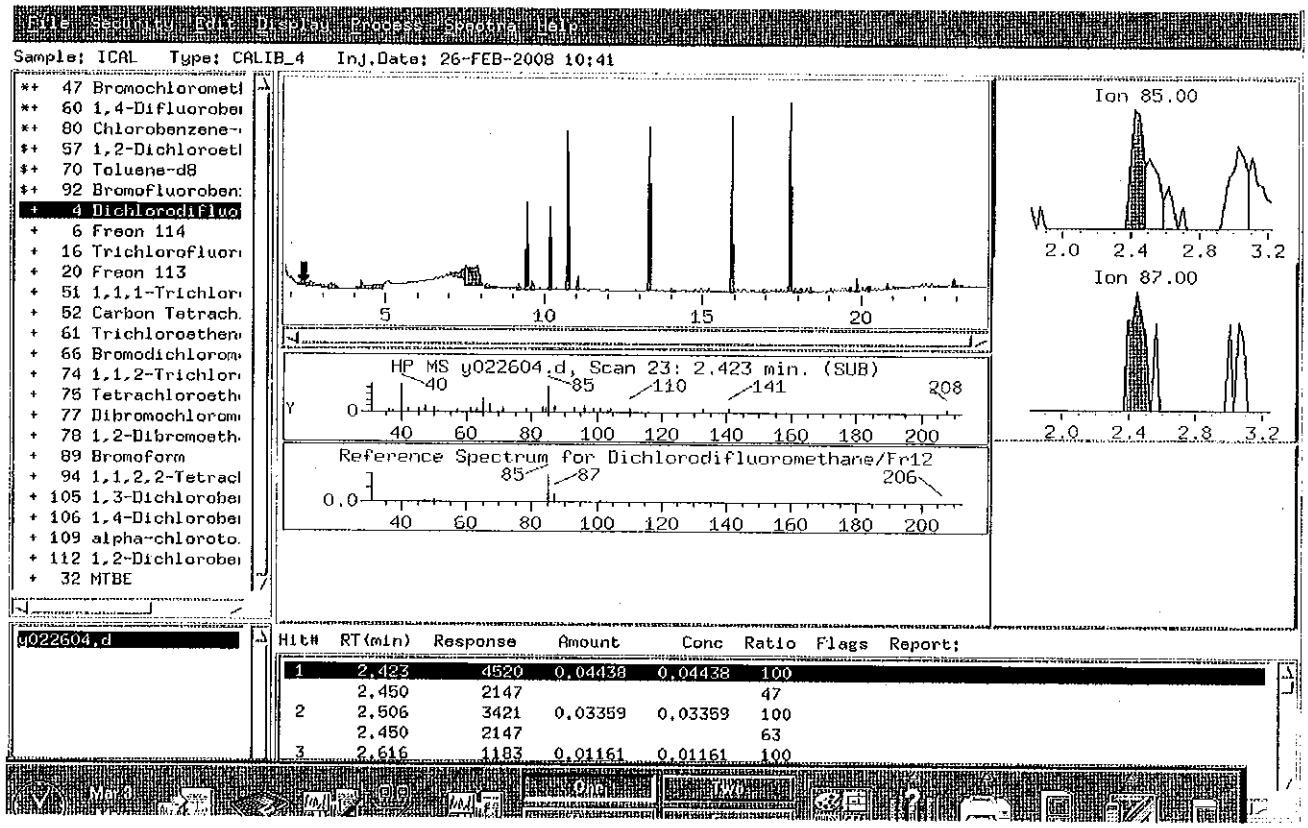
Date

10	✓	Y031110	4 Lab Blank	41129	Humid	Sound	1.50	3/11/08	2046	SS	B-Flag EtOH	0059
11		~~"~~	~~0803117B-02A~~	~~33904~~	~~5.0"Hg-5psi~~	~~500cc~~	~~1.61~~				443/11/08	
12	✓	Y031111	0803115B-02A	35244	3.5"Hg-5psi	500cc	1.52	3/11/08	2144	SS		
13	✓	12	-03A	3735	0.0"Hg-5psi	500cc	1.34	↓	2214	SS		
14	✓	13	-04A	946610	6.0"Hg-5psi	500cc	1.68	↓	2253	KR	"E" EtOH	
15	✓	14	-04AA	↓	↓	↓	↓	3/12/08	0021	KR	↓	
16	✓	15	0803117B-02A	33904	5.0"Hg-5psi	500cc	1.61		0106	KR	"E" EtOH	
17	✓	16	-03A	30845	2.5"Hg-5psi	500cc	1.46		0154	KR	~~"E" EtOH~~ KR 3/12/08	
18	✓	17	-04A	5563	7.0"Hg-5psi	500cc	1.75		0243	KR	"E" EtOH	
19	✓	18	0803153B-05A	916	6.5"Hg-5psi	500cc	1.71		0330	KR		
20	✓	19	-05AA	↓	↓	↓	↓		0500	KR		
21	✓	20	-06A	14004	2.5"Hg-5psi	500cc	1.46		0535	KR		
22	✓	21	-07A	5699	1.5"Hg-5psi	500cc	1.41		0623	KR		
23	✓	22	0803146-01A	4214	6.0"Hg-5psi	500cc	1.68		0654	RT		
24	✓	23	-02A	11304	17.0"Hg-5psi	500cc	3.09		0739	RT		
25	✓	24	-03A	10779	16.5"Hg-5psi	500cc	2.98		0850	RT		
26	X	25	-01AA	4214	6.0"Hg-5psi	500cc	1.68		0938	RT		
27	✓	26	ICAL Level 6	158305	30→0.5"Hg	5.0cc	1.00	↓	1012	RT		
28												
29												
30												
31					95	3-12-08						
32												

Comments:

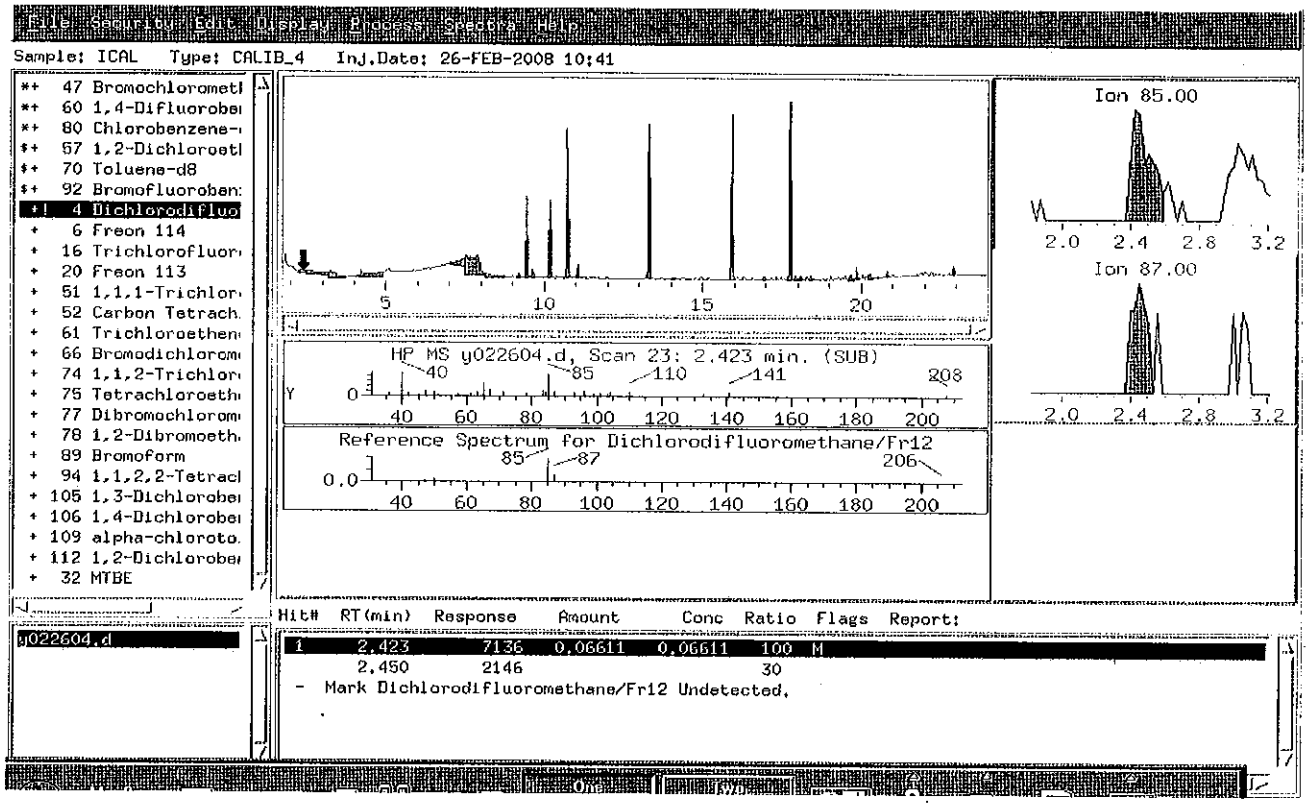
Signature

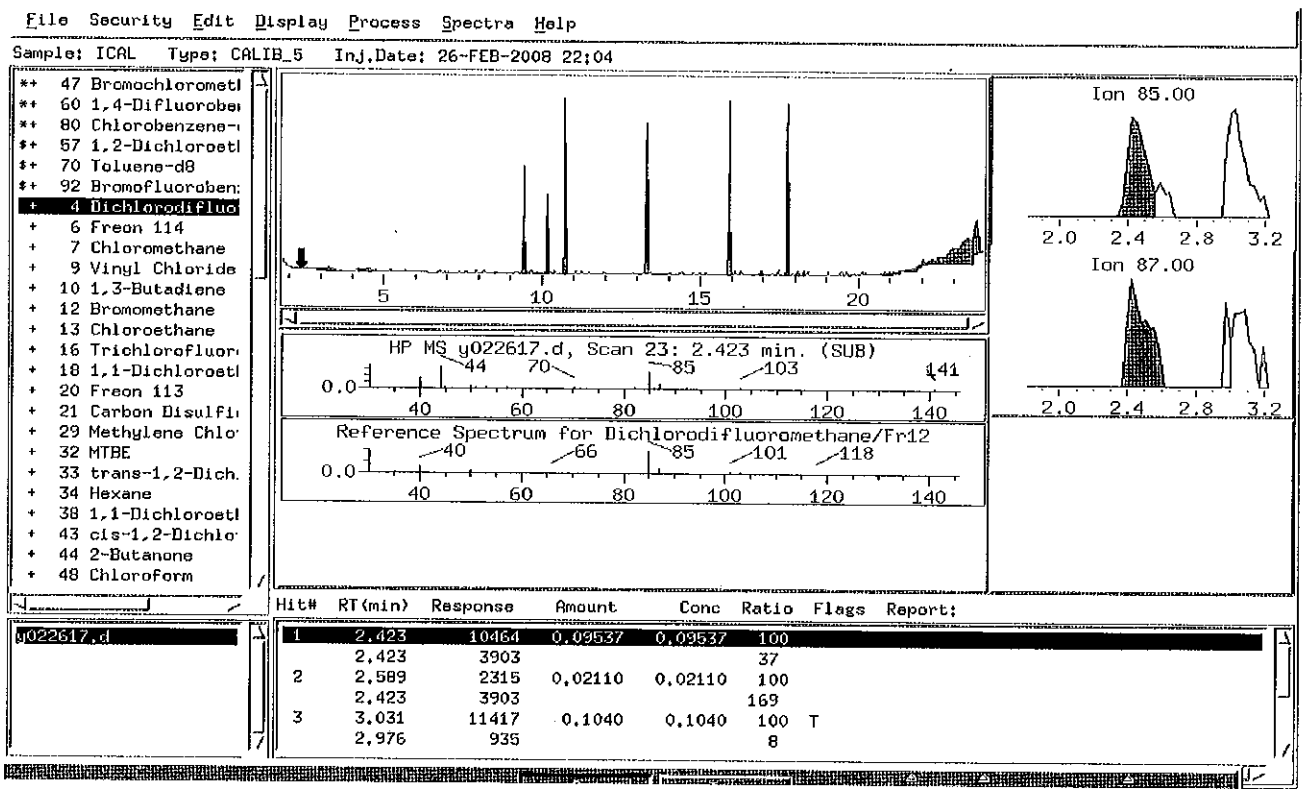
3-12-08
Date


Sample: ICAL Type: CALIB_4 Inj.Date: 26-FEB-2008 10:41
** 47 Bromochlorometh
** 60 1,4-Difluorober
** 80 Chlorobenzene-
$+ 57 1,2-Dichloroeth
$+ 70 Toluene-d8
$+ 92 Bromofluoroben
+ 4 Dichlorodifluo
+ 6 Freon 114
+ 16 Trichlorofluor
+ 20 Freon 113
+ 51 1,1,1-Trichlor
+ 52 Carbon Tetrach
+ 61 Trichloroether
+ 66 Bromodichlorom
+ 74 1,1,2-Trichlor
+ 75 Tetrachloroeth
+ 77 Dibromochlorom
+ 78 1,2-Dibromoeth
+ 89 Bromoform
+ 94 1,1,2,2-Tetracl
+ 105 1,3-Dichlorober
+ 106 1,4-Dichlorober
+ 109 alpha-chloroto
+ 112 1,2-Dichlorober
+ 32 MTBE
HP MS y022604.d, Scan 23: 2.423 min. (SUB)
Reference Spectrum for Dichlorodifluoromethane/Fr12
Ion 85.00
Ion 87.00
y022604.d
Hit# RT(min) Response Amount Conc Ratio Flags Report:
1 2.423 4520 0.04438 0.04438 100
2.450 2147 47
2 2.506 3421 0.03359 0.03359 100
2.450 2147 63
3 2.616 1183 0.01161 0.01161 100

CL 3/3/08

Manual	
Poor Integration	QK 3/3/08
Split Peak	
Peak Tailing	
Background Subtraction	
Zoom In	
Missed Peak	

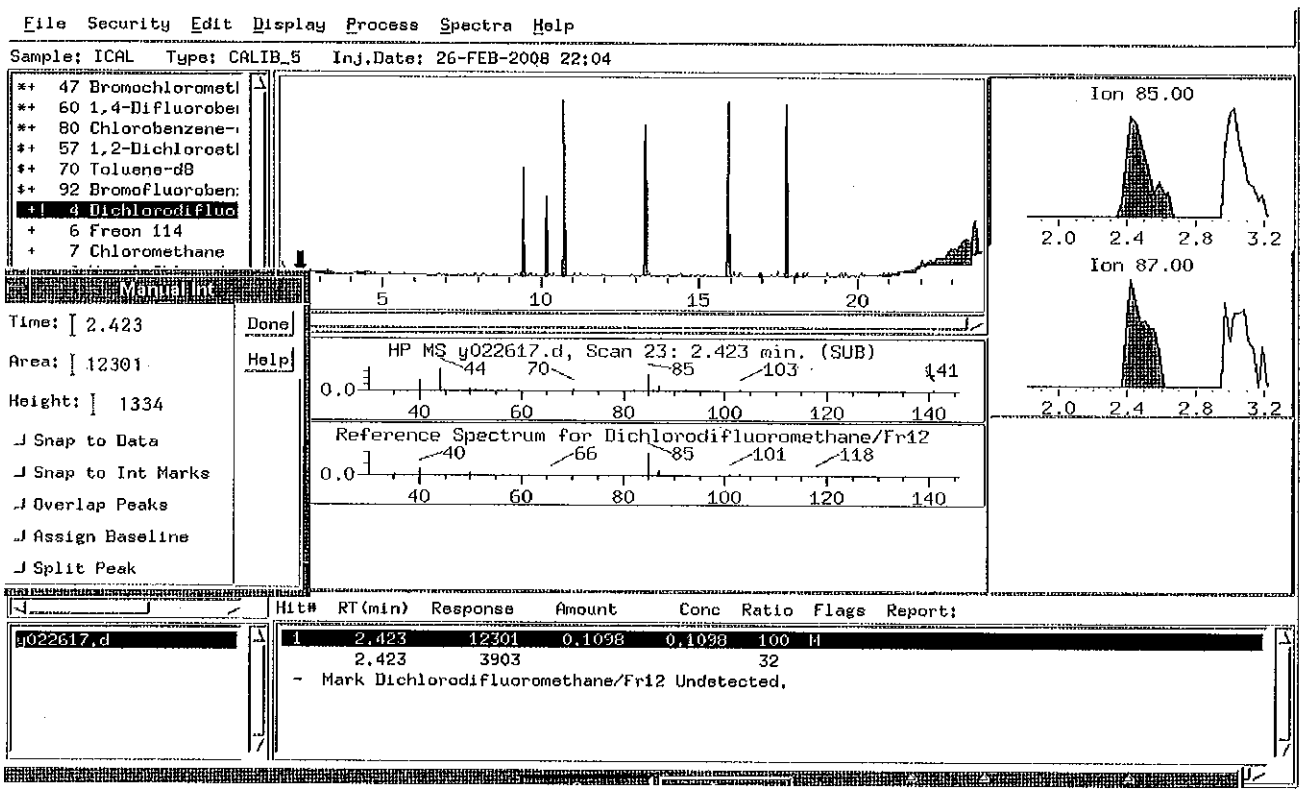



File Security Edit Display Process Spectra Help
Sample: ICAL Type: CALIB_5 Inj.Date: 26-FEB-2008 22:04
*+ 47 Bromochlorometl
*+ 60 1,4-Difluorobe
*+ 80 Chlorobenzene-
$+ 57 1,2-Dichloroetl
$+ 70 Toluene-d8
$+ 92 Bromofluoroben
+ 4 Dichlorodifluo
+ 6 Freon 114
+ 7 Chloromethane
+ 9 Vinyl Chloride
+ 10 1,3-Butadiene
+ 12 Bromomethane
+ 13 Chloroethane
+ 16 Trichlorofluor
+ 18 1,1-Dichloroetl
+ 20 Freon 113
+ 21 Carbon Disulfi
+ 29 Methylene Chlo
+ 32 MTBE
+ 33 trans-1,2-Dich
+ 34 Hexane
+ 38 1,1-Dichloroetl
+ 43 cis-1,2-Dichlo
+ 44 2-Butanone
+ 48 Chloroform
5 10 15 20
HP MS y022617.d, Scan 23: 2.423 min. (SUB)
44 70 85 103 141
0.0
40 60 80 100 120 140
Reference Spectrum for Dichlorodifluoromethane/Fr12
40 66 85 101 118
0.0
40 60 80 100 120 140
Ion 85.00
2.0 2.4 2.8 3.2
Ion 87.00
2.0 2.4 2.8 3.2
y022617.d
Hit# RT(min) Response Amount Conc Ratio Flags Report:
1 2.423 10464 0.09537 0.09537 100
2.423 3903 37
2 2.589 2315 0.02110 0.02110 100
2.423 3903 169
3 3.031 11417 0.1040 0.1040 100 T
2.976 935 8

3/3/08 CJ

Manual
oor Integration
Split Peak
Peak Tailing
Background Subtraction
oom In
ssed Peak

Da 3/3/08



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

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

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

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

Air Toxics Ltd.

AMBIENT AIR METHOD TO14/TO15

Data file : /chem/msdy.i/y-28feb.b/y022803.d
Lab Smp Id: LCS-1 Client Smp ID: LCS-1
Inj Date : 28-FEB-2008 11:40
Operator : jdg Inst ID: msdy.i
Smp Info : 50ml #1576-253 50ppbv
Misc Info : 50ppbv->5.0ppbv
Comment :
Method : /chem/msdy.i/y-28feb.b/t14ll0226a.m
Meth Date : 28-Feb-2008 11:51 jgray Quant Type: ISTD
Cal Date : 26-FEB-2008 22:04 Cal File: y022617.d
Als bottle: 1 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT06ENSR.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
* 47 Bromochloromethane					CAS #: 74-97-5		
9.418	9.418 (1.000)	130	433121	10.0000		80.00- 120.00	100.00
9.418	9.418 (1.000)	128	336931			46.57- 106.57	77.79
9.418	9.418 (1.000)	49	785692			153.94- 213.94	181.40
* 60 1,4-Difluorobenzene					CAS #: 540-36-3		
10.717	10.718 (1.000)	114	1848278	10.0000		80.00- 120.00	100.00
10.717	10.718 (1.000)	88	308828			0.00- 46.69	16.71
* 80 Chlorobenzene-d5					CAS #: 3114-55-4		
15.916	15.916 (1.000)	117	1271409	10.0000		80.00- 120.00	100.00
15.916	15.916 (1.000)	82	756714			28.42- 88.42	59.52
$ 57 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
10.165	10.165 (1.079)	65	608371	9.52502	9.525	80.00- 120.00	100.00
10.165	10.165 (1.079)	67	331882			24.94- 84.94	54.55
$ 70 Toluene-d8					CAS #: 2037-26-5		
13.317	13.317 (1.242)	98	1782098	9.60195	9.602	80.00- 120.00	100.00
13.317	13.317 (1.242)	70	192717			0.00- 40.46	10.81

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
$ 70 Toluene-d8 (continued)							
13.317	13.317 (1.242)	100	1176909			35.84- 95.84	66.04
$ 92 Bromofluorobenzene					CAS #: 460-00-4		
17.768	17.768 (1.116)	174	690940	10.0782	10.078	80.00- 120.00	100.00
17.768	17.768 (1.116)	95	1077880			129.56- 189.56	156.00
17.768	17.768 (1.116)	176	653367			66.11- 126.11	94.56
2 Propylene					CAS #: 115-07-1		
2.284	2.284 (0.243)	41	201810	5.00912	5.009	80.00- 120.00	100.00
2.257	2.284 (0.240)	42	137375			38.49- 98.49	68.07
2.257	2.284 (0.240)	39	144439			40.69- 100.69	71.57
4 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
2.423	2.450 (0.257)	85	583868	4.66275	4.663	80.00- 120.00	100.00
2.423	2.450 (0.257)	87	185676			2.06- 62.06	31.80
6 Freon 114					CAS #: 76-14-2		
3.031	3.031 (0.322)	135	365714	4.61619	4.616	80.00- 120.00	100.00
3.031	3.031 (0.322)	137	121452			0.89- 60.89	33.21
7 Chloromethane					CAS #: 74-87-3		
3.142	3.169 (0.334)	50	279391	4.50170	4.502	80.00- 120.00	100.00
3.169	3.169 (0.336)	52	78449			0.95- 60.95	28.08
9 Vinyl Chloride					CAS #: 75-01-4		
3.612	3.612 (0.383)	62	265119	4.76052	4.760	80.00- 120.00	100.00
3.612	3.612 (0.383)	64	81757			0.49- 60.49	30.84
10 1,3-Butadiene					CAS #: 106-99-0		
3.777	3.778 (0.401)	54	175807	4.54838	4.548	80.00- 120.00	100.00
3.777	3.778 (0.401)	39	142697			65.65- 125.65	81.17
12 Bromomethane					CAS #: 74-83-9		
4.718	4.718 (0.501)	94	155577	5.39479	5.395	80.00- 120.00	100.00
4.718	4.718 (0.501)	96	147523			62.92- 122.92	94.82
13 Chloroethane					CAS #: 75-00-3		
5.105	5.105 (0.542)	64	95571	4.44067	4.441	80.00- 120.00	100.00
5.105	5.105 (0.542)	66	28372			1.55- 61.55	29.69
5.105	5.105 (0.542)	49	25940			0.00- 57.55	27.14
16 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
5.685	5.685 (0.604)	101	568464	5.16505	5.165	80.00- 120.00	100.00
5.685	5.685 (0.604)	103	366547			34.26- 94.26	64.48

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
17 Ethanol					CAS #: 64-17-5		
6.542	6.542 (0.695)	45	115534	4.27638	4.276	80.00- 120.00	100.00
6.542	6.542 (0.695)	43	23615			0.00- 48.46	20.44
6.542	6.542 (0.695)	46	49120			10.06- 70.06	42.52
20 Freon 113					CAS #: 76-13-1		
6.764	6.764 (0.718)	151	411035	6.01178	6.012	80.00- 120.00	100.00
6.764	6.764 (0.718)	153	259590			32.46- 92.46	63.16
6.764	6.764 (0.718)	101	538141			98.27- 158.27	130.92
18 1,1-Dichloroethene					CAS #: 75-35-4		
6.708	6.708 (0.712)	98	184972	6.51002	6.510	80.00- 120.00	100.00(R)
6.708	6.708 (0.712)	61	516055			266.10- 326.10	278.99
6.708	6.708 (0.712)	96	281874			128.33- 188.33	152.39
24 Acetone					CAS #: 67-64-1		
7.012	7.013 (0.745)	43	490730	5.13222	5.132	80.00- 120.00	100.00
7.012	7.013 (0.745)	58	165153			4.59- 64.59	33.65
28 2-Propanol					CAS #: 67-63-0		
7.372	7.372 (0.783)	45	470594	4.68328	4.683	80.00- 120.00	100.00
7.372	7.372 (0.783)	43	91039			0.00- 47.61	19.35
7.372	7.372 (0.783)	59	16963			0.00- 33.99	3.60
21 Carbon Disulfide					CAS #: 75-15-0		
6.902	6.902 (0.733)	76	808920	5.78249	5.782	80.00- 120.00	100.00
29 Methylene Chloride					CAS #: 75-09-2		
7.621	7.621 (0.809)	84	255019	5.71762	5.718	80.00- 120.00	100.00
7.593	7.621 (0.806)	49	435719			136.68- 196.68	170.86
7.593	7.621 (0.806)	51	128386			19.70- 79.70	50.34
32 MTBE					CAS #: 1634-04-4		
7.897	7.897 (0.839)	73	860651	5.15542	5.155	80.00- 120.00	100.00
7.897	7.897 (0.839)	57	294009			5.95- 65.95	34.16
7.897	7.897 (0.839)	41	343552			12.94- 72.94	39.92
33 trans-1,2-Dichloroethene					CAS #: 156-60-5		
7.897	7.897 (0.839)	98	200694	5.92242	5.922	80.00- 120.00	100.00
7.897	7.897 (0.839)	61	523402			232.38- 292.38	260.80
7.897	7.897 (0.839)	96	312416			122.68- 182.68	155.67
34 Hexane					CAS #: 110-54-3		
8.174	8.174 (0.868)	57	651529	5.00264	5.003	80.00- 120.00	100.00
8.174	8.174 (0.868)	43	420949			34.58- 94.58	64.61
8.174	8.174 (0.868)	86	99495			0.00- 45.61	15.27

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
38 1,1-Dichloroethane					CAS #: 75-34-3		
8.478	8.478 (0.900)	63	660787	5.23243	5.232	80.00- 120.00	100.00
8.478	8.478 (0.900)	65	201805			0.35- 60.35	30.54
44 2-Butanone					CAS #: 78-93-3		
9.197	9.197 (0.976)	72	165322	4.70726	4.707	80.00- 120.00	100.00
9.197	9.197 (0.976)	43	777744			439.26- 499.26	470.44
9.197	9.197 (0.976)	57	60920			5.29- 65.29	36.85
43 cis-1,2-Dichloroethene					CAS #: 156-59-2		
9.141	9.142 (0.971)	98	221844	5.30097	5.301	80.00- 120.00	100.00
9.141	9.142 (0.971)	61	504232			203.92- 263.92	227.29
9.141	9.142 (0.971)	96	344147			131.76- 191.76	155.13
45 Tetrahydrofuran					CAS #: 109-99-9		
9.418	9.418 (1.000)	42	466457	4.80423	4.804	80.00- 120.00	100.00
9.418	9.418 (1.000)	71	143400			0.78- 60.78	30.74
9.418	9.418 (1.000)	72	155612			4.38- 64.38	33.36
48 Chloroform					CAS #: 67-66-3		
9.529	9.529 (1.012)	83	640262	5.34844	5.348	80.00- 120.00	100.00
9.529	9.529 (1.012)	85	413771			35.82- 95.82	64.63
51 1,1,1-Trichloroethane					CAS #: 71-55-6		
9.667	9.667 (1.026)	97	615835	4.72486	4.725	80.00- 120.00	100.00
9.667	9.667 (1.026)	99	396535			35.72- 95.72	64.39
50 Cyclohexane					CAS #: 110-82-7		
9.639	9.639 (1.023)	84	501892	4.92808	4.928	80.00- 120.00	100.00
9.639	9.639 (1.023)	56	697307			112.88- 172.88	138.94
9.639	9.639 (1.023)	41	355890			42.36- 102.36	70.91
52 Carbon Tetrachloride					CAS #: 56-23-5		
9.833	9.833 (1.044)	119	527424	5.40709	5.407	80.00- 120.00	100.00
9.833	9.833 (1.044)	117	549205			75.71- 135.71	104.13
56 Benzene					CAS #: 71-43-2		
10.137	10.137 (0.946)	78	1043494	4.45696	4.457	80.00- 120.00	100.00
10.137	10.137 (0.946)	77	235670			0.00- 53.10	22.58
58 1,2-Dichloroethane					CAS #: 107-06-2		
10.275	10.275 (0.959)	62	471993	5.25686	5.257	80.00- 120.00	100.00
10.275	10.275 (0.959)	64	149716			1.17- 61.17	31.72
59 Heptane					CAS #: 142-82-5		
10.386	10.386 (0.969)	43	803893	5.12639	5.126	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
59 Heptane (continued)							
10.386	10.386 (0.969)	57	409904			22.34- 82.34	50.99
10.386	10.386 (0.969)	100	129690			0.00- 46.30	16.13
61 Trichloroethene					CAS #: 79-01-6		
11.049	11.049 (1.031)	130	447273	4.98439	4.984	80.00- 120.00	100.00
11.049	11.049 (1.031)	95	449494			70.30- 130.30	100.50
11.049	11.049 (1.031)	97	293168			35.09- 95.09	65.55
64 1,2-Dichloropropane					CAS #: 78-87-5		
11.492	11.492 (1.072)	63	414293	4.98354	4.984	80.00- 120.00	100.00
11.492	11.492 (1.072)	62	307837			40.67- 100.67	74.30
11.492	11.492 (1.072)	41	245883			27.96- 87.96	59.35
65 1,4-Dioxane					CAS #: 123-91-1		
11.685	11.685 (1.090)	88	140440	3.51949	3.519	80.00- 120.00	100.00
11.685	11.685 (1.090)	58	117663			52.94- 112.94	83.78
11.685	11.685 (1.090)	57	37847			0.00- 56.59	26.95
66 Bromodichloromethane					CAS #: 75-27-4		
11.962	11.962 (1.116)	83	645168	5.03200	5.032	80.00- 120.00	100.00
11.962	11.962 (1.116)	85	413167			34.37- 94.37	64.04
67 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
12.874	12.874 (1.201)	75	524310	4.93505	4.935	80.00- 120.00	100.00
12.874	12.874 (1.201)	77	175995			2.25- 62.25	33.57
12.874	12.874 (1.201)	39	292435			27.39- 87.39	55.78
68 4-Methyl-2-pentanone					CAS #: 108-10-1		
13.178	13.178 (1.230)	43	776754	4.26041	4.260	80.00- 120.00	100.00
13.178	13.178 (1.230)	58	308879			9.71- 69.71	39.77
13.178	13.178 (1.230)	85	112520			0.00- 45.16	14.49
72 Toluene					CAS #: 108-88-3		
13.455	13.427 (1.255)	91	1245295	5.11654	5.116	80.00- 120.00	100.00
13.455	13.427 (1.255)	92	750755			31.24- 91.24	60.29
73 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
14.008	14.008 (0.880)	75	517147	5.18290	5.183	80.00- 120.00	100.00
14.008	14.008 (0.880)	77	163360			2.60- 62.60	31.59
14.008	14.008 (0.880)	39	282690			25.24- 85.24	54.66
74 1,1,2-Trichloroethane					CAS #: 79-00-5		
14.340	14.340 (0.901)	97	420846	5.15003	5.150	80.00- 120.00	100.00
14.340	14.340 (0.901)	99	252508			32.04- 92.04	60.00
14.340	14.340 (0.901)	83	349702			55.23- 115.23	83.10

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
75 Tetrachloroethene					CAS #: 127-18-4		
14.423	14.423 (0.906)	166	516262	5.17178	5.172	80.00- 120.00	100.00
14.423	14.423 (0.906)	129	415509			49.04- 109.04	80.48
14.423	14.423 (0.906)	131	384498			45.96- 105.96	74.48
76 2-Hexanone					CAS #: 591-78-6		
14.754	14.754 (0.927)	58	352049	3.88858	3.888	80.00- 120.00	100.00
14.754	14.754 (0.927)	43	655152			156.40- 216.40	186.10
14.782	14.754 (0.929)	100	67265			0.00- 48.91	19.11
77 Dibromochloromethane					CAS #: 124-48-1		
14.976	14.976 (0.941)	129	606331	5.52564	5.526	80.00- 120.00	100.00
14.976	14.976 (0.941)	127	470746			49.01- 109.01	77.64
15.003	14.976 (0.943)	208	28624			0.00- 34.90	4.72
78 1,2-Dibromoethane					CAS #: 106-93-4		
15.197	15.197 (0.955)	107	596400	5.02518	5.025	80.00- 120.00	100.00
15.197	15.197 (0.955)	109	554476			65.33- 125.33	92.97
81 Chlorobenzene					CAS #: 108-90-7		
15.971	15.971 (1.003)	112	998348	5.13773	5.138	80.00- 120.00	100.00
15.971	15.971 (1.003)	114	319929			1.58- 61.58	32.05
15.971	15.971 (1.003)	77	593470			29.78- 89.78	59.45
84 Ethyl Benzene					CAS #: 100-41-4		
16.109	16.109 (1.012)	106	531407	5.20421	5.204	80.00- 120.00	100.00
16.109	16.109 (1.012)	91	1709465			290.46- 350.46	321.69
85 m,p-Xylene					CAS #: 108-38-3		
16.303	16.303 (1.024)	106	662307	5.13980	5.140	80.00- 120.00	100.00
16.303	16.303 (1.024)	91	1355193			176.36- 236.36	204.62
86 o-Xylene					CAS #: 95-47-6		
16.911	16.911 (1.063)	106	641011	5.25508	5.255	80.00- 120.00	100.00
16.911	16.911 (1.063)	91	1367427			183.43- 243.43	213.32
87 Styrene					CAS #: 100-42-5		
16.966	16.966 (1.066)	104	983788	5.14794	5.148	80.00- 120.00	100.00
16.966	16.966 (1.066)	78	505359			20.35- 80.35	51.37
89 Bromoform					CAS #: 75-25-2		
17.270	17.270 (1.085)	173	498335	5.53317	5.533	80.00- 120.00	100.00
17.270	17.270 (1.085)	171	253633			21.39- 81.39	50.90
90 Cumene					CAS #: 98-82-8		
17.464	17.464 (1.097)	105	1897229	5.31116	5.311	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
90 Cumene (continued)							
17.464	17.464 (1.097)	120	512489			0.00- 57.43	27.01
94 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
18.045	18.045 (1.134)	83	870558	4.95728	4.957	80.00- 120.00	100.00
18.045	18.045 (1.134)	85	569720			34.37- 94.37	65.44
96 Propylbenzene					CAS #: 103-65-1		
18.100	18.100 (1.137)	91	2295953	5.25161	5.252	80.00- 120.00	100.00
18.100	18.100 (1.137)	120	532190			0.00- 52.67	23.18
97 4-Ethyltoluene					CAS #: 622-96-8		
18.293	18.293 (1.149)	105	1944812	5.17639	5.176	80.00- 120.00	100.00
18.293	18.293 (1.149)	120	598442			0.01- 60.01	30.77
98 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
18.404	18.404 (1.156)	105	1577939	5.07932	5.079	80.00- 120.00	100.00
18.404	18.404 (1.156)	120	792729			20.58- 80.58	50.24
102 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
19.040	19.040 (1.196)	105	1534206	5.05422	5.054	80.00- 120.00	100.00
19.040	19.040 (1.196)	120	725791			16.80- 76.80	47.31
105 1,3-Dichlorobenzene					CAS #: 541-73-1		
19.482	19.482 (1.224)	146	976799	4.96758	4.968	80.00- 120.00	100.00
19.482	19.482 (1.224)	148	631276			33.25- 93.25	64.63
19.482	19.482 (1.224)	111	422600			13.08- 73.08	43.26
106 1,4-Dichlorobenzene					CAS #: 106-46-7		
19.621	19.621 (1.233)	146	983709	4.86431	4.864	80.00- 120.00	100.00
19.621	19.621 (1.233)	148	626396			33.07- 93.07	63.68
19.621	19.621 (1.233)	111	416525			12.18- 72.18	42.34
109 alpha-chlorotoluene					CAS #: 100-44-7		
19.814	19.814 (1.245)	91	1109236	4.70665	4.707	80.00- 120.00	100.00
19.814	19.814 (1.245)	126	219304			0.00- 50.13	19.77
112 1,2-Dichlorobenzene					CAS #: 95-50-1		
20.118	20.118 (1.264)	146	928777	4.84980	4.850	80.00- 120.00	100.00
20.118	20.118 (1.264)	148	585189			32.88- 92.88	63.01
20.118	20.118 (1.264)	111	413956			14.40- 74.40	44.57
114 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
21.916	21.916 (1.377)	180	639683	4.75235	4.752	80.00- 120.00	100.00
21.916	21.916 (1.377)	182	598384			63.27- 123.27	93.54

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
115 Hexachlorobutadiene					CAS #: 87-68-3		
22.054	22.054 (1.386)	225	467814	4.82290	4.823	80.00- 120.00	100.00
22.054	22.054 (1.386)	223	297606			32.68- 92.68	63.62
55 2,2,4-Trimethylpentane					CAS #: 540-84-1		
10.137	10.137 (1.076)	56	655399	4.65354	4.654	80.00- 120.00	100.00
10.137	10.137 (1.076)	99	101104			0.00- 44.97	15.43
10.137	10.137 (1.076)	41	468300			41.28- 101.28	71.45
22 3-Chloroprene					CAS #: 107-05-1		
6.902	6.902 (0.733)	76	808920	5.83712	5.837	80.00- 120.00	100.00
6.930	6.902 (0.736)	41	648			0.00- 30.15	0.08
35 Vinyl Acetate					CAS #: 108-05-4		
8.561	8.561 (0.909)	43	534840	4.32004	4.320	80.00- 120.00	100.00
8.561	8.561 (0.909)	42	41604			0.00- 37.53	7.78
8.561	8.561 (0.909)	86	47775			0.00- 38.89	8.93
14 Isopentane					CAS #: 78-78-4		
5.215	5.215 (0.554)	57	251975	4.91917	4.919	80.00- 120.00	100.00
5.215	5.215 (0.554)	43	373827			117.08- 177.08	148.36
5.215	5.215 (0.554)	42	331149			97.60- 157.60	131.42
63 Methylcyclohexane					CAS #: 108-87-2		
11.243	11.243 (1.194)	83	659046	4.96129	4.961	80.00- 120.00	100.00
11.243	11.243 (1.194)	98	332339			19.40- 79.40	50.43
11.243	11.243 (1.194)	55	608697			66.29- 126.29	92.36
8 Butane					CAS #: 106-97-8		
3.556	3.556 (0.378)	58	51865	4.27110	4.271	80.00- 120.00	100.00
3.556	3.556 (0.378)	43	406652			657.57- 717.57	784.06
117 Naphthalene					CAS #: 91-20-3		
22.220	22.220 (1.396)	128	1269760	4.11969	4.120	80.00- 120.00	100.00
22.220	22.220 (1.396)	127	161152			0.00- 42.66	12.69

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Report Date: 28-Feb-2008 11:55

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdy.i
Lab File ID: y022803.d
Lab Smp Id: LCS-1
Analysis Type: VOA
Quant Type: ISTD
Operator: jdg
Method File: /chem/msdy.i/y-28feb.b/t14ll0226a.m
Misc Info: 50ppbv->5.0ppbv

Calibration Date: 28-FEB-2008
Calibration Time: 10:57
Client Smp ID: LCS-1
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 Bromochloromethan	508987	305392	712582	433121	-14.91
60 1,4-Difluorobenze	2175874	1305524	3046224	1848278	-15.06
80 Chlorobenzene-d5	1536660	921996	2151324	1271409	-17.26

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 Bromochloromethan	9.42	9.09	9.75	9.42	0.00
60 1,4-Difluorobenze	10.72	10.39	11.05	10.72	0.00
80 Chlorobenzene-d5	15.92	15.59	16.25	15.92	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: 28-Feb-2008 11:55

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: y-28feb
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: LCS-1 Client Smp ID: LCS-1
Level: LOW Operator: jdg
Data Type: MS DATA SampleType: LCS
SpikeList File: SpectraENSR.spk Quant Type: ISTD
Sublist File: AT06ENSR.sub
Method File: /chem/msdy.i/y-28feb.b/t14ll0226a.m
Misc Info: 50ppbv->5.0ppbv

SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
4 Dichlorodifluorome	5.000	4.663	93.25	70-130
6 Freon 114	5.000	4.616	92.32	70-130
7 Chloromethane	5.000	4.502	90.03	70-130
9 Vinyl Chloride	5.000	4.760	95.21	70-130
10 1,3-Butadiene	5.000	4.548	90.97	60-140
12 Bromomethane	5.000	5.395	107.90	70-130
13 Chloroethane	5.000	4.441	88.81	70-130
16 Trichlorofluoromet	5.000	5.165	103.30	70-130
17 Ethanol	5.000	4.276	85.53	60-140
20 Freon 113	5.000	6.012	120.24	70-130
24 Acetone	5.000	5.132	102.64	60-140
18 1,1-Dichloroethene	5.000	6.510	130.20*	70-130
21 Carbon Disulfide	5.000	5.782	115.65	60-140
28 2-Propanol	5.000	4.683	93.67	60-140
29 Methylene Chloride	5.000	5.718	114.35	70-130
32 MTBE	5.000	5.155	103.11	60-140
33 trans-1,2-Dichloro	5.000	5.922	118.45	60-140
34 Hexane	5.000	5.003	100.05	60-140
38 1,1-Dichloroethane	5.000	5.232	104.65	70-130
43 cis-1,2-Dichloroet	5.000	5.301	106.02	70-130
44 2-Butanone	5.000	4.707	94.15	60-140
45 Tetrahydrofuran	5.000	4.804	96.08	60-140
48 Chloroform	5.000	5.348	106.97	70-130
50 Cyclohexane	5.000	4.928	98.56	60-140
51 1,1,1-Trichloroeth	5.000	4.725	94.50	70-130
52 Carbon Tetrachlori	5.000	5.407	108.14	70-130
56 Benzene	5.000	4.457	89.14	70-130
59 Heptane	5.000	5.126	102.53	60-140
58 1,2-Dichloroethane	5.000	5.257	105.14	70-130
61 Trichloroethene	5.000	4.984	99.69	70-130
64 1,2-Dichloropropan	5.000	4.984	99.67	70-130
65 1,4-Dioxane	5.000	3.519	70.39	60-140
66 Bromodichlorometha	5.000	5.032	100.64	60-140

SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
67 cis-1,3-Dichloropr	5.000	4.935	98.70	70-130
68 4-Methyl-2-pentano	5.000	4.260	85.21	60-140
72 Toluene	5.000	5.116	102.33	70-130
73 trans-1,3-Dichloro	5.000	5.183	103.66	70-130
74 1,1,2-Trichloroeth	5.000	5.150	103.00	70-130
75 Tetrachloroethene	5.000	5.172	103.44	70-130
76 2-Hexanone	5.000	3.888	77.77	60-140
77 Dibromochlorometha	5.000	5.526	110.51	60-140
78 1,2-Dibromoethane	5.000	5.025	100.50	70-130
81 Chlorobenzene	5.000	5.138	102.75	70-130
84 Ethyl Benzene	5.000	5.204	104.08	70-130
85 m,p-Xylene	5.000	5.140	102.80	70-130
86 o-Xylene	5.000	5.255	105.10	70-130
87 Styrene	5.000	5.148	102.96	70-130
89 Bromoform	5.000	5.533	110.66	60-140
90 Cumene	5.000	5.311	106.22	60-140
94 1,1,2,2-Tetrachlor	5.000	4.957	99.15	70-130
96 Propylbenzene	5.000	5.252	105.03	60-140
97 4-Ethyltoluene	5.000	5.176	103.53	60-140
98 1,3,5-Trimethylben	5.000	5.079	101.59	70-130
102 1,2,4-Trimethylben	5.000	5.054	101.08	70-130
105 1,3-Dichlorobenzen	5.000	4.968	99.35	70-130
106 1,4-Dichlorobenzen	5.000	4.864	97.29	70-130
109 alpha-chlorotoluen	5.000	4.707	94.13	70-130
112 1,2-Dichlorobenzen	5.000	4.850	97.00	70-130
114 1,2,4-Trichloroben	5.000	4.752	95.05	70-130
115 Hexachlorobutadien	5.000	4.823	96.46	70-130
55 2,2,4-Trimethylpen	5.000	4.654	93.07	60-140
14 Isopentane	5.000	4.919	98.38	60-140
22 3-Chloroprene	5.000	5.837	116.74	60-140
35 Vinyl Acetate	5.000	4.320	86.40	60-140
63 Methylcyclohexane	5.000	4.961	99.23	60-140
117 Naphthalene	5.000	4.120	82.39	60-140

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 57 1,2-Dichloroethane	10.000	9.525	95.25	70-130
$ 70 Toluene-d8	10.000	9.602	96.02	70-130
$ 92 Bromofluorobenzene	10.000	10.078	100.78	70-130

Data File: /chem/msdy.i/y-28feb.b/y022803.d

Date : 28-FEB-2008 11:40

Client ID: LCS-1

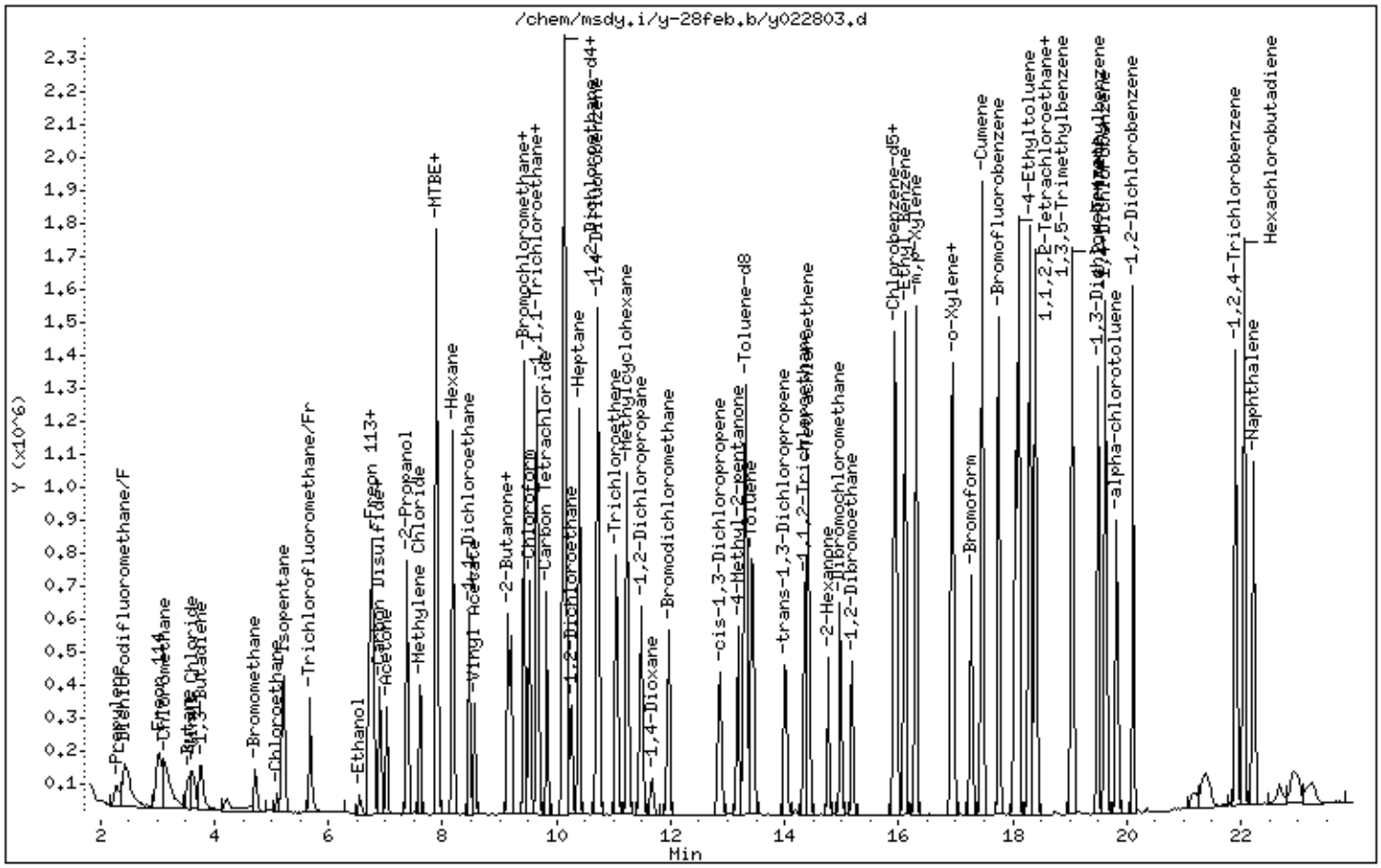
Instrument: msdy.i

Sample Info: 50ml #1576-253 50ppbv

Operator: jdg

Column phase: RTx-624

Column diameter: 0.32



Air Toxics Ltd.

AMBIENT AIR METHOD TO14/TO15

Data file : /chem/msdy.i/y-26feb.b/y022604.d
Lab Smp Id: ICAL Client Smp ID: Level 4
Inj Date : 26-FEB-2008 10:41
Operator : db Inst ID: msdy.i
Smp Info : 500ml #1576-301 0.05ppbv
Misc Info : 0.05ppbv->0.05ppbv
Comment :
Method : /chem/msdy.i/y-26feb.b/t14ll0226a.m
Meth Date : 04-Mar-2008 09:42 ejakob Quant Type: ISTD
Cal Date : 26-FEB-2008 10:41 Cal File: y022604.d
Als bottle: 1 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: Level05.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				AMOUNTS				
				CAL-AMT	ON-COL			
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE		RATIO
==	====== ========	====	========	=======	=======	==========		=====
* 47 Bromochloromethane					CAS #: 74-97-5			
9.446	9.446 (1.000)	130	373361	10.0000		70.00- 130.00		100.00
9.446	9.446 (1.000)	128	293866			0.00- 30.00		78.71
9.418	9.418 (1.000)	49	681064			0.00- 30.00		182.41
* 60 1,4-Difluorobenzene					CAS #: 540-36-3			
10.718	10.718 (1.000)	114	1666543	10.0000		70.00- 130.00		100.00
10.718	10.718 (1.000)	88	289082			0.00- 47.22		17.35
* 80 Chlorobenzene-d5					CAS #: 3114-55-4			
15.916	15.916 (1.000)	117	1228786	10.0000		70.00- 130.00		100.00
15.916	15.916 (1.000)	82	734374			0.00- 30.00		59.76
$ 57 1,2-Dichloroethane-d4					CAS #: 17060-07-0			
10.165	10.165 (1.076)	65	540070	10.0000	10.042	70.00- 130.00		100.00
10.165	10.165 (1.076)	67	288814			0.00- 30.00		53.48
$ 70 Toluene-d8					CAS #: 2037-26-5			
13.317	13.317 (1.242)	98	1708081	10.0000	10.071	70.00- 130.00		100.00
13.317	13.317 (1.242)	70	189744			0.00- 40.98		11.11

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
$ 70 Toluene-d8 (continued)							
13.317	13.317 (1.242)	100	1127159			36.13- 96.13	65.99
$ 92 Bromofluorobenzene					CAS #: 460-00-4		
17.768	17.768 (1.116)	174	686960	10.0000	10.166	70.00- 130.00	100.00
17.768	17.768 (1.116)	95	1095328			129.64- 189.64	159.45
17.768	17.768 (1.116)	176	656665			66.74- 126.74	95.59
4 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
2.423	2.423 (0.256)	85	7136	0.05000	0.05945	70.00- 130.00	100.00(M)
2.450	2.450 (0.259)	87	2146			1.87- 61.87	30.07
6 Freon 114					CAS #: 76-14-2		
3.059	3.059 (0.324)	135	4001	0.05000	0.05511	70.00- 130.00	100.00
3.031	3.031 (0.321)	137	1046			0.00- 30.00	26.14
16 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
5.685	5.685 (0.602)	101	5246	0.05000	0.05379	70.00- 130.00	100.00
5.713	5.713 (0.605)	103	6051			34.71- 94.71	115.35
20 Freon 113					CAS #: 76-13-1		
6.791	6.791 (0.719)	151	2870	0.05000	0.04960	70.00- 130.00	100.00
6.791	6.791 (0.719)	153	2889			32.84- 92.84	100.66
6.764	6.764 (0.716)	101	3809			0.00- 30.00	132.72
51 1,1,1-Trichloroethane					CAS #: 71-55-6		
9.695	9.695 (1.026)	97	7503	0.05000	0.06014	70.00- 130.00	100.00
9.695	9.695 (1.026)	99	3636			33.37- 93.37	48.46
52 Carbon Tetrachloride					CAS #: 56-23-5		
9.833	9.833 (1.041)	119	4488	0.05000	0.05114	70.00- 130.00	100.00
9.833	9.833 (1.041)	117	4740			72.88- 132.88	105.61
61 Trichloroethene					CAS #: 79-01-6		
11.077	11.077 (1.034)	130	5278	0.05000	0.05818	70.00- 130.00	100.00
11.077	11.077 (1.034)	95	6781			0.00- 30.00	128.48
11.077	11.077 (1.034)	97	3452			0.00- 30.00	65.40
66 Bromodichloromethane					CAS #: 75-27-4		
11.962	11.962 (1.116)	83	7609	0.05000	0.05841	70.00- 130.00	100.00
11.962	11.962 (1.116)	85	4164			34.78- 94.78	54.72
74 1,1,2-Trichloroethane					CAS #: 79-00-5		
14.340	14.340 (0.901)	97	4965	0.05000	0.05743	70.00- 130.00	100.00
14.340	14.340 (0.901)	99	2631			33.49- 93.49	52.99
14.340	14.340 (0.901)	83	3747			54.93- 114.93	75.47

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
75 Tetrachloroethene					CAS #: 127-18-4		
14.423	14.423 (0.906)	166	6373	0.05000	0.05868	70.00- 130.00	100.00
14.423	14.423 (0.906)	129	4912			48.45- 108.45	77.08
14.423	14.423 (0.906)	131	4714			45.97- 105.97	73.97
77 Dibromochloromethane					CAS #: 124-48-1		
14.976	14.976 (0.941)	129	5001	0.05000	0.04837	70.00- 130.00	100.00(T)
0.000	1.000 (0.000)	127	0			0.00- 30.00	0.00
78 1,2-Dibromoethane					CAS #: 106-93-4		
15.197	15.197 (0.955)	107	6901	0.05000	0.05598	70.00- 130.00	100.00
15.197	15.197 (0.955)	109	5852			63.27- 123.27	84.80
89 Bromoform					CAS #: 75-25-2		
17.271	17.271 (1.085)	173	4475	0.05000	0.05017	70.00- 130.00	100.00
17.271	17.271 (1.085)	171	2322			21.60- 81.60	51.89
94 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
18.045	18.045 (1.134)	83	10707	0.05000	0.05714	70.00- 130.00	100.00
18.045	18.045 (1.134)	85	7461			34.07- 94.07	69.68
105 1,3-Dichlorobenzene					CAS #: 541-73-1		
19.483	19.483 (1.224)	146	10806	0.05000	0.05474	70.00- 130.00	100.00
19.483	19.483 (1.224)	148	7281			0.00- 30.00	67.38
19.483	19.483 (1.224)	111	6151			0.00- 30.00	56.92
106 1,4-Dichlorobenzene					CAS #: 106-46-7		
19.621	19.621 (1.233)	146	11211	0.05000	0.05526	70.00- 130.00	100.00
19.621	19.621 (1.233)	148	7198			0.00- 30.00	64.20
19.621	19.621 (1.233)	111	6139			0.00- 30.00	54.76
109 alpha-chlorotoluene					CAS #: 100-44-7		
19.814	19.814 (1.245)	91	11685	0.05000	0.05268	70.00- 130.00	100.00(a)
19.814	19.814 (1.245)	126	2863			0.00- 30.00	24.50
112 1,2-Dichlorobenzene					CAS #: 95-50-1		
20.118	20.118 (1.264)	146	11523	0.05000	0.05773	70.00- 130.00	100.00
20.118	20.118 (1.264)	148	5849			34.12- 94.12	50.76
20.118	20.118 (1.264)	111	5383			14.42- 74.42	46.72
32 MTBE					CAS #: 1634-04-4		
7.925	7.925 (0.839)	73	10236	0.05000	0.05943	70.00- 130.00	100.00
7.925	7.925 (0.839)	57	28402			0.00- 30.00	277.47
7.925	7.925 (0.839)	41	29720			0.00- 30.00	290.35

QC Flag Legend

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

Report Date: 04-Mar-2008 09:42

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdy.i
Lab File ID: y022604.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: db
Method File: /chem/msdy.i/y-26feb.b/t14ll0226a.m
Misc Info: 0.05ppbv->0.05ppbv

Calibration Date: 26-FEB-2008
Calibration Time: 13:56
Client Smp ID: Level 4
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 Bromochloromethan	420808	252485	589131	373361	-11.28
60 1,4-Difluorobenze	1780063	1068038	2492088	1666543	-6.38
80 Chlorobenzene-d5	1282640	769584	1795696	1228786	-4.20

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 Bromochloromethan	9.45	9.12	9.78	9.45	0.00
60 1,4-Difluorobenze	10.72	10.39	11.05	10.72	0.00
80 Chlorobenzene-d5	15.92	15.59	16.25	15.92	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/msdy.i/y-26feb.b/y022604.d

Date : 26-FEB-2008 10:41

Client ID: Level 4

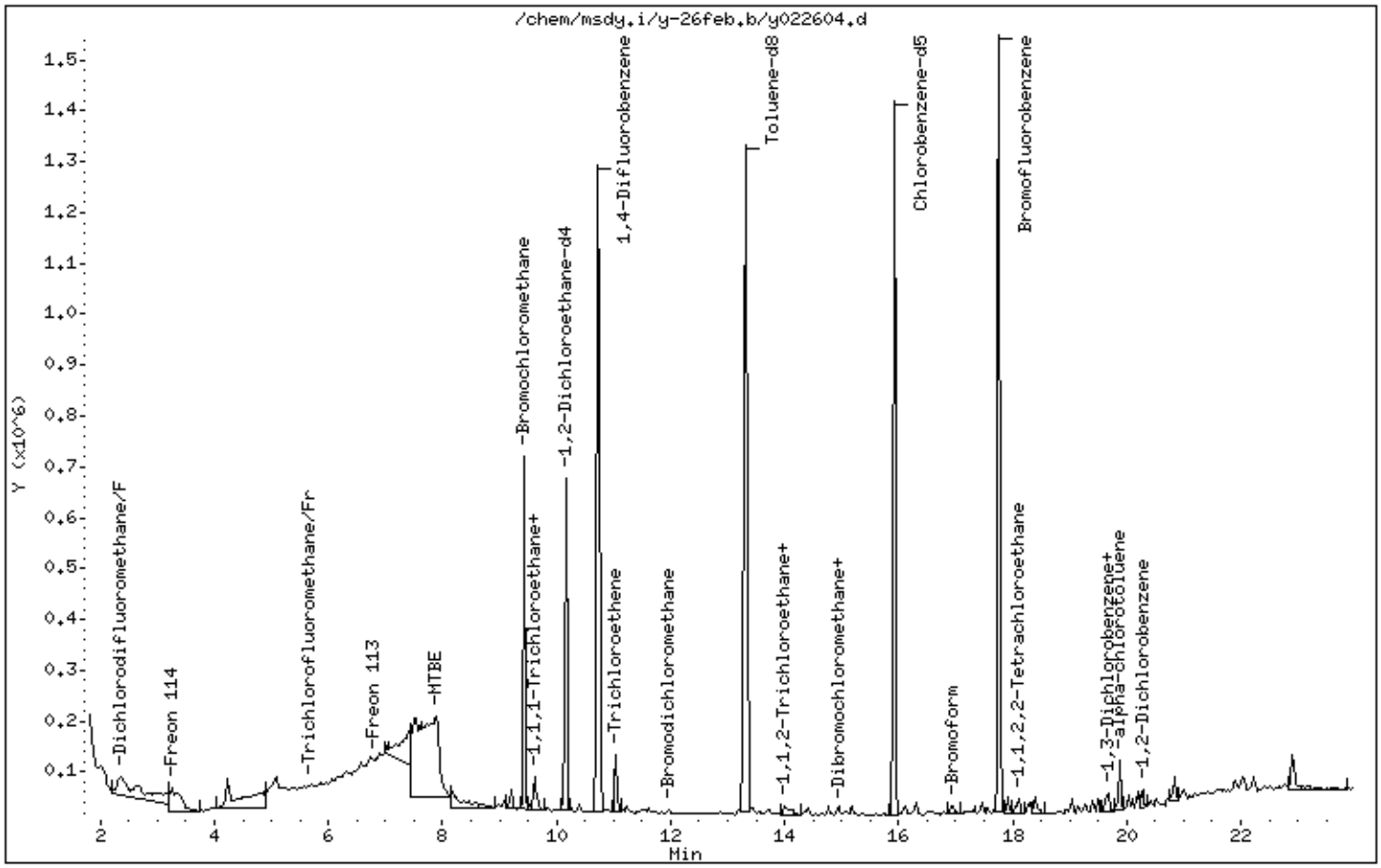
Instrument: msdy.i

Sample Info: 500ml #1576-301 0.05ppbv

Operator: db

Column phase: RTx-624

Column diameter: 0.32



Air Toxics Ltd.

AMBIENT AIR METHOD TO14/TO15

Data file : /chem/msdy.i/y-26feb.b/y022617.d
Lab Smp Id: ICAL Client Smp ID: level 5
Inj Date : 26-FEB-2008 22:04
Operator : dfm Inst ID: msdy.i
Smp Info : 25ml #1576-300
Misc Info : 2.0ppbv-0.1ppbv
Comment :
Method : /chem/msdy.i/y-26feb.b/t14ll0226a.m
Meth Date : 04-Mar-2008 09:42 ejakob Quant Type: ISTD
Cal Date : 26-FEB-2008 22:04 Cal File: y022617.d
Als bottle: 1 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: Level#1.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				AMOUNTS				
				CAL-AMT	ON-COL			
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE		RATIO
==	====== ========	====	========	=======	=======	==========		=====
* 47 Bromochloromethane						CAS #: 74-97-5		
9.418	9.418 (1.000)	130	387457	10.0000		70.00- 130.00		100.00
9.418	9.418 (1.000)	128	306131			46.57- 106.57		79.01
9.418	9.418 (1.000)	49	714959			153.94- 213.94		184.53
* 60 1,4-Difluorobenzene						CAS #: 540-36-3		
10.718	10.718 (1.000)	114	1703240	10.0000		70.00- 130.00		100.00
10.718	10.718 (1.000)	88	285992			0.00- 47.32		16.79
* 80 Chlorobenzene-d5						CAS #: 3114-55-4		
15.916	15.916 (1.000)	117	1231352	10.0000		70.00- 130.00		100.00
15.916	15.916 (1.000)	82	721273			28.42- 88.42		58.58
$ 57 1,2-Dichloroethane-d4						CAS #: 17060-07-0		
10.165	10.165 (1.079)	65	561838	10.0000	9.833	70.00- 130.00		100.00
10.165	10.165 (1.079)	67	303195			24.94- 84.94		53.96
$ 70 Toluene-d8						CAS #: 2037-26-5		
13.317	13.317 (1.242)	98	1699162	10.0000	9.935	70.00- 130.00		100.00
13.317	13.317 (1.242)	70	183659			0.00- 40.97		10.81

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
$ 70 Toluene-d8 (continued)							
13.317	13.317 (1.242)	100	1117225			37.65- 97.65	65.75
$ 92 Bromofluorobenzene					CAS #: 460-00-4		
17.768	17.768 (1.116)	174	638655	10.0000	9.619	70.00- 130.00	100.00
17.768	17.768 (1.116)	95	1022051			130.48- 190.48	160.03
17.768	17.768 (1.116)	176	626690			65.64- 125.64	98.13
4 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
2.423	2.423 (0.257)	85	12300	0.10000	0.1098	70.00- 130.00	100.00(M)
2.423	2.423 (0.257)	87	3903			2.58- 62.58	31.73
6 Freon 114					CAS #: 76-14-2		
3.031	3.031 (0.322)	135	8067	0.10000	0.1138	70.00- 130.00	100.00
3.004	3.004 (0.319)	137	1459			0.89- 60.89	18.09
7 Chloromethane					CAS #: 74-87-3		
3.142	3.142 (0.334)	50	7745	0.10000	0.1395	70.00- 130.00	100.00
3.142	3.142 (0.334)	52	3027			0.95- 60.95	39.08
9 Vinyl Chloride					CAS #: 75-01-4		
3.612	3.612 (0.383)	62	5811	0.10000	0.1166	70.00- 130.00	100.00
3.639	3.639 (0.386)	64	3012			1.67- 61.67	51.83
10 1,3-Butadiene					CAS #: 106-99-0		
3.750	3.750 (0.398)	54	4630	0.10000	0.1339	70.00- 130.00	100.00
3.750	3.750 (0.398)	39	5241			65.65- 125.65	113.20
12 Bromomethane					CAS #: 74-83-9		
4.718	4.718 (0.501)	94	3153	0.10000	0.1222	70.00- 130.00	100.00
4.718	4.718 (0.501)	96	2976			62.68- 122.68	94.39
13 Chloroethane					CAS #: 75-00-3		
5.105	5.105 (0.542)	64	2704	0.10000	0.1404	70.00- 130.00	100.00
5.077	5.077 (0.539)	66	1159			1.55- 61.55	42.86
5.105	5.105 (0.542)	49	834			0.00- 57.55	30.84
16 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
5.686	5.686 (0.604)	101	10425	0.10000	0.1059	70.00- 130.00	100.00
5.686	5.686 (0.604)	103	6451			35.42- 95.42	61.88
18 1,1-Dichloroethene					CAS #: 75-35-4		
6.709	6.709 (0.712)	98	2871	0.10000	0.1130	70.00- 130.00	100.00
6.709	6.709 (0.712)	61	8233			266.10- 326.10	286.76
6.709	6.709 (0.712)	96	4338			128.33- 188.33	151.10

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
20 Freon 113					CAS #: 76-13-1		
6.764	6.764 (0.718)	151	7302	0.10000	0.1194	70.00- 130.00	100.00
6.764	6.764 (0.718)	153	4557			32.83- 92.83	62.41
6.764	6.764 (0.718)	101	8168			98.27- 158.27	111.86
21 Carbon Disulfide					CAS #: 75-15-0		
6.902	6.902 (0.733)	76	13217	0.10000	0.1056	70.00- 130.00	100.00
29 Methylene Chloride					CAS #: 75-09-2		
7.621	7.621 (0.809)	84	6372	0.10000	0.1597	70.00- 130.00	100.00
7.593	7.593 (0.806)	49	9326			136.55- 196.55	146.36
7.593	7.593 (0.806)	51	4115			19.70- 79.70	64.58
32 MTBE					CAS #: 1634-04-4		
7.925	7.925 (0.841)	73	16025	0.10000	0.1073	70.00- 130.00	100.00
7.925	7.925 (0.841)	57	7228			5.95- 65.95	45.10
7.925	7.925 (0.841)	41	6561			12.94- 72.94	40.94
33 trans-1,2-Dichloroethene					CAS #: 156-60-5		
7.897	7.897 (0.839)	98	3425	0.10000	0.1130	70.00- 130.00	100.00
7.897	7.897 (0.839)	61	9097			232.38- 292.38	265.61
7.897	7.897 (0.839)	96	5911			122.68- 182.68	172.58
34 Hexane					CAS #: 110-54-3		
8.174	8.174 (0.868)	57	12430	0.10000	0.1067	70.00- 130.00	100.00
8.174	8.174 (0.868)	43	9609			34.58- 94.58	77.30
8.174	8.174 (0.868)	86	1941			0.00- 45.61	15.62
38 1,1-Dichloroethane					CAS #: 75-34-3		
8.478	8.478 (0.900)	63	11981	0.10000	0.1060	70.00- 130.00	100.00
8.478	8.478 (0.900)	65	3875			0.75- 60.75	32.34
43 cis-1,2-Dichloroethene					CAS #: 156-59-2		
9.142	9.142 (0.971)	98	4388	0.10000	0.1172	70.00- 130.00	100.00
9.142	9.142 (0.971)	61	9539			208.87- 268.87	217.39
9.142	9.142 (0.971)	96	6213			127.78- 187.78	141.59
44 2-Butanone					CAS #: 78-93-3		
9.225	9.225 (0.979)	72	3908	0.10000	0.1244	70.00- 130.00	100.00
9.197	9.197 (0.976)	43	15516			443.11- 503.11	397.03
9.197	9.197 (0.976)	57	2753			5.29- 65.29	70.45
48 Chloroform					CAS #: 67-66-3		
9.529	9.529 (1.012)	83	11045	0.10000	0.1031	70.00- 130.00	100.00
9.529	9.529 (1.012)	85	7691			35.22- 95.22	69.63

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
50 Cyclohexane					CAS #: 110-82-7		
9.639	9.639 (1.023)	84	10544	0.10000	0.1157	70.00- 130.00	100.00
9.639	9.639 (1.023)	56	15141			112.88- 172.88	143.60
9.639	9.639 (1.023)	41	6861			42.36- 102.36	65.07
51 1,1,1-Trichloroethane					CAS #: 71-55-6		
9.667	9.667 (1.026)	97	12085	0.10000	0.1036	70.00- 130.00	100.00
9.667	9.667 (1.026)	99	7686			33.30- 93.30	63.60
52 Carbon Tetrachloride					CAS #: 56-23-5		
9.833	9.833 (1.044)	119	6407	0.10000	0.07342	70.00- 130.00	100.00
9.833	9.833 (1.044)	117	6621			74.08- 134.08	103.34
56 Benzene					CAS #: 71-43-2		
10.137	10.137 (0.946)	78	35678	0.10000	0.1654	70.00- 130.00	100.00
10.137	10.137 (0.946)	77	9272			0.00- 53.10	25.99
55 2,2,4-Trimethylpentane					CAS #: 540-84-1		
10.137	10.137 (1.076)	56	15476	0.10000	0.1228	70.00- 130.00	100.00
10.137	10.137 (1.076)	99	2239			0.00- 44.97	14.47
10.137	10.137 (1.076)	41	9973			41.28- 101.28	64.44
58 1,2-Dichloroethane					CAS #: 107-06-2		
10.275	10.275 (0.959)	62	8543	0.10000	0.1032	70.00- 130.00	100.00
10.248	10.248 (0.956)	64	4620			1.17- 61.17	54.08
59 Heptane					CAS #: 142-82-5		
10.386	10.386 (0.969)	43	15021	0.10000	0.1039	70.00- 130.00	100.00
10.386	10.386 (0.969)	57	9384			22.34- 82.34	62.47
10.386	10.386 (0.969)	100	2757			0.00- 46.30	18.35
61 Trichloroethene					CAS #: 79-01-6		
11.050	11.050 (1.031)	130	8835	0.10000	0.1068	70.00- 130.00	100.00
11.050	11.050 (1.031)	95	9778			70.30- 130.30	110.67
11.050	11.050 (1.031)	97	6284			35.09- 95.09	71.13
64 1,2-Dichloropropane					CAS #: 78-87-5		
11.492	11.492 (1.072)	63	7669	0.10000	0.1001	70.00- 130.00	100.00
11.492	11.492 (1.072)	62	6095			42.88- 102.88	79.48
11.492	11.492 (1.072)	41	4643			26.54- 86.54	60.54
65 1,4-Dioxane					CAS #: 123-91-1		
11.685	11.685 (1.090)	88	2797	0.10000	0.07606	70.00- 130.00	100.00
11.685	11.685 (1.090)	58	2938			51.89- 111.89	105.04
11.685	11.685 (1.090)	57	947			0.00- 56.59	33.86

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
66 Bromodichloromethane					CAS #: 75-27-4		
11.962	11.962 (1.116)	83	11480	0.10000	0.09716	70.00- 130.00	100.00
11.962	11.962 (1.116)	85	8449			33.04- 93.04	73.60
67 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
12.874	12.874 (1.201)	75	9688	0.10000	0.09895	70.00- 130.00	100.00
12.874	12.874 (1.201)	77	3749			1.64- 61.64	38.70
12.847	12.847 (1.199)	39	6640			25.50- 85.50	68.54
68 4-Methyl-2-pentanone					CAS #: 108-10-1		
13.179	13.179 (1.230)	43	16623	0.10000	0.09894	70.00- 130.00	100.00
13.179	13.179 (1.230)	58	5213			9.71- 69.71	31.36
13.179	13.179 (1.230)	85	2045			0.00- 45.16	12.30
72 Toluene					CAS #: 108-88-3		
13.455	13.455 (1.255)	91	26532	0.10000	0.1183	70.00- 130.00	100.00
13.455	13.455 (1.255)	92	14360			31.29- 91.29	54.12
73 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
14.036	14.036 (0.882)	75	8929	0.10000	0.09240	70.00- 130.00	100.00
14.008	14.008 (0.880)	77	4438			2.42- 62.42	49.70
14.008	14.008 (0.880)	39	5006			24.97- 84.97	56.06
74 1,1,2-Trichloroethane					CAS #: 79-00-5		
14.340	14.340 (0.901)	97	8533	0.10000	0.1078	70.00- 130.00	100.00
14.340	14.340 (0.901)	99	5177			31.67- 91.67	60.67
14.340	14.340 (0.901)	83	7369			55.59- 115.59	86.36
75 Tetrachloroethene					CAS #: 127-18-4		
14.423	14.423 (0.906)	166	10078	0.10000	0.1042	70.00- 130.00	100.00
14.423	14.423 (0.906)	129	8099			50.76- 110.76	80.36
14.423	14.423 (0.906)	131	7785			47.60- 107.60	77.25
77 Dibromochloromethane					CAS #: 124-48-1		
14.976	14.976 (0.941)	129	9726	0.10000	0.09152	70.00- 130.00	100.00(T)
0.000	1.000 (0.000)	127	0			49.01- 109.01	0.00
78 1,2-Dibromoethane					CAS #: 106-93-4		
15.197	15.197 (0.955)	107	11367	0.10000	0.09889	70.00- 130.00	100.00
15.197	15.197 (0.955)	109	10738			64.32- 124.32	94.47
81 Chlorobenzene					CAS #: 108-90-7		
15.971	15.971 (1.003)	112	21094	0.10000	0.1121	70.00- 130.00	100.00
15.971	15.971 (1.003)	114	6808			1.72- 61.72	32.27
15.971	15.971 (1.003)	77	23834			30.04- 90.04	112.99

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
84 Ethyl Benzene					CAS #: 100-41-4		
16.109	16.109 (1.012)	106	10275	0.10000	0.1039	70.00- 130.00	100.00
16.109	16.109 (1.012)	91	31884			290.46- 350.46	310.31
85 m,p-Xylene					CAS #: 108-38-3		
16.303	16.303 (1.024)	106	11948	0.10000	0.09574	70.00- 130.00	100.00
16.303	16.303 (1.024)	91	27833			176.36- 236.36	232.95
86 o-Xylene					CAS #: 95-47-6		
16.911	16.911 (1.063)	106	11800	0.10000	0.09988	70.00- 130.00	100.00
16.911	16.911 (1.063)	91	25208			181.88- 241.88	213.63
87 Styrene					CAS #: 100-42-5		
16.966	16.966 (1.066)	104	16950	0.10000	0.09158	70.00- 130.00	100.00
16.966	16.966 (1.066)	78	11871			21.27- 81.27	70.04
89 Bromoform					CAS #: 75-25-2		
17.271	17.271 (1.085)	173	6263	0.10000	0.07180	70.00- 130.00	100.00
17.271	17.271 (1.085)	171	3571			21.12- 81.12	57.02
90 Cumene					CAS #: 98-82-8		
17.464	17.464 (1.097)	105	36011	0.10000	0.1041	70.00- 130.00	100.00
17.464	17.464 (1.097)	120	8761			0.00- 57.28	24.33
94 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
18.045	18.045 (1.134)	83	15730	0.10000	0.09249	70.00- 130.00	100.00
18.045	18.045 (1.134)	85	10630			35.03- 95.03	67.58
96 Propylbenzene					CAS #: 103-65-1		
18.100	18.100 (1.137)	91	40423	0.10000	0.09547	70.00- 130.00	100.00
18.100	18.100 (1.137)	120	9481			0.00- 52.67	23.45
97 4-Ethyltoluene					CAS #: 622-96-8		
18.294	18.294 (1.149)	105	35220	0.10000	0.09679	70.00- 130.00	100.00
18.294	18.294 (1.149)	120	10199			0.00- 59.95	28.96
98 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
18.404	18.404 (1.156)	105	29493	0.10000	0.09802	70.00- 130.00	100.00
18.404	18.404 (1.156)	120	15103			19.88- 79.88	51.21
102 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
19.040	19.040 (1.196)	105	27992	0.10000	0.09522	70.00- 130.00	100.00
19.040	19.040 (1.196)	120	13051			16.90- 76.90	46.62
105 1,3-Dichlorobenzene					CAS #: 541-73-1		
19.483	19.483 (1.224)	146	19343	0.10000	0.1016	70.00- 130.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
105 1,3-Dichlorobenzene (continued)							
19.483	19.483 (1.224)	148	13313			33.25- 93.25	68.83
19.483	19.483 (1.224)	111	7619			13.08- 73.08	39.39
106 1,4-Dichlorobenzene					CAS #: 106-46-7		
19.621	19.621 (1.233)	146	19728	0.10000	0.1007	70.00- 130.00	100.00
19.621	19.621 (1.233)	148	12472			33.07- 93.07	63.22
19.621	19.621 (1.233)	111	8935			12.18- 72.18	45.29
109 alpha-chlorotoluene					CAS #: 100-44-7		
19.814	19.814 (1.245)	91	17437	0.10000	0.07639	70.00- 130.00	100.00
19.842	19.842 (1.247)	126	2943			0.00- 50.13	16.88
112 1,2-Dichlorobenzene					CAS #: 95-50-1		
20.119	20.119 (1.264)	146	18356	0.10000	0.09897	70.00- 130.00	100.00
20.119	20.119 (1.264)	148	10440			34.08- 94.08	56.88
20.119	20.119 (1.264)	111	7652			15.93- 75.93	41.69

QC Flag Legend

T - Target compound detected outside RT window.
M - Compound response manually integrated.

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdy.i
Lab File ID: y022617.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: dfm
Method File: /chem/msdy.i/y-26feb.b/t14ll0226a.m
Misc Info: 2.0ppbv-0.1ppbv

Calibration Date: 26-FEB-2008
Calibration Time: 13:56
Client Smp ID: level 5
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 Bromochloromethan	420808	252485	589131	387457	-7.93
60 1,4-Difluorobenze	1780063	1068038	2492088	1703240	-4.32
80 Chlorobenzene-d5	1282640	769584	1795696	1231352	-4.00

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 Bromochloromethan	9.45	9.12	9.78	9.42	-0.29
60 1,4-Difluorobenze	10.72	10.39	11.05	10.72	0.00
80 Chlorobenzene-d5	15.92	15.59	16.25	15.92	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/msdy.i/y-26feb.b/y022617.d

Date : 26-FEB-2008 22:04

Client ID: level 5

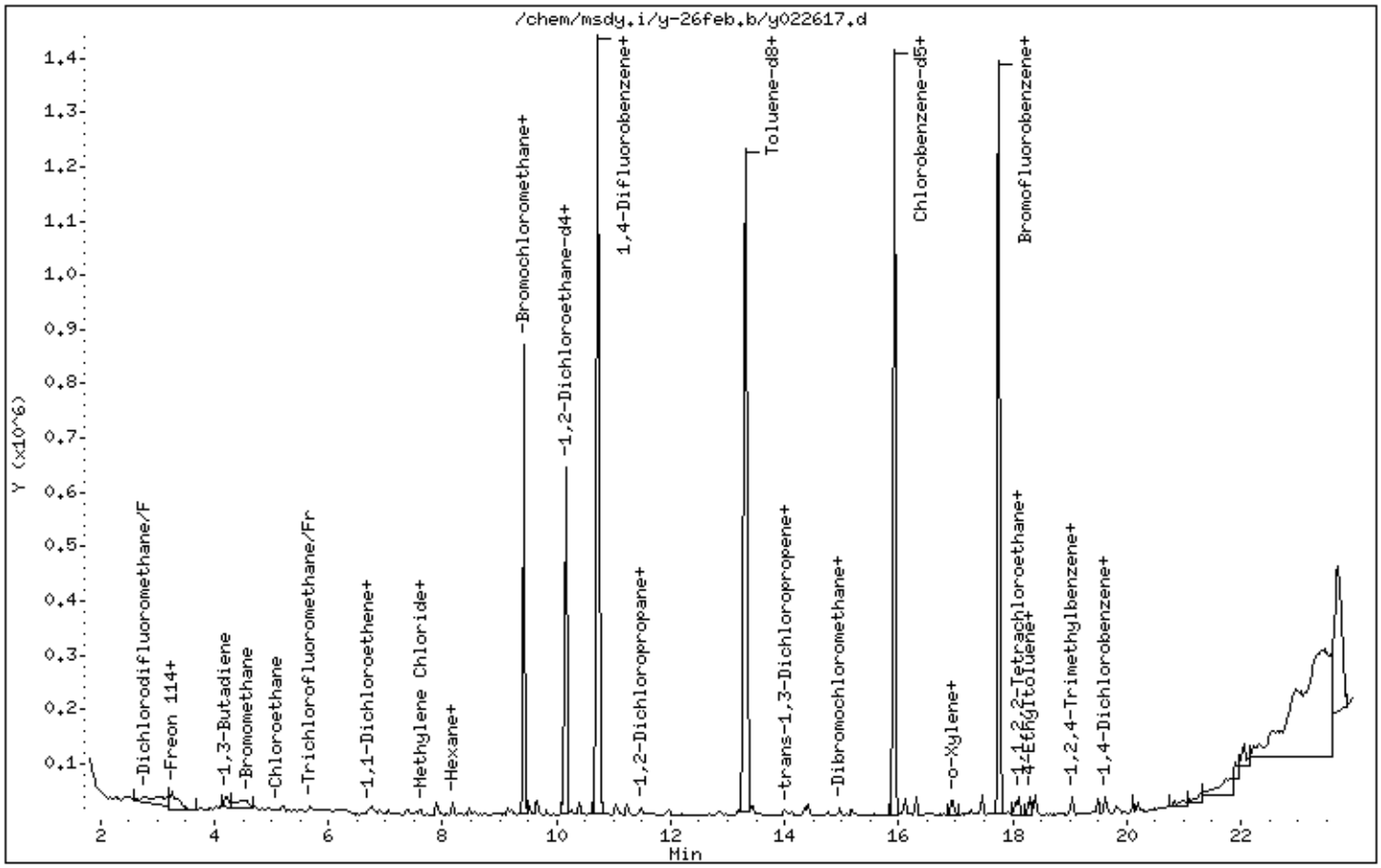
Instrument: msdy.i

Sample Info: 25ml #1576-300

Operator: dfm

Column phase: RTx-624

Column diameter: 0.32



Air Toxics Ltd.

AMBIENT AIR METHOD TO14/TO15

Data file : /chem/msdy.i/y-11mar.b/y031126.d
Lab Smp Id: ICAL Client Smp ID: Level 6
Inj Date : 12-MAR-2008 10:12
Operator : ej Inst ID: msdy.i
Smp Info : 5.0mL #1576-315
Misc Info : 50ppbv->0.5ppbv
Comment :
Method : /chem/msdy.i/y-11mar.b/t14ll0226b.m
Meth Date : 12-Mar-2008 14:35 ejakob Quant Type: ISTD
Cal Date : 12-MAR-2008 10:12 Cal File: y031126.d
Als bottle: 1 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: sp14b.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				AMOUNTS				
				CAL-AMT	ON-COL			
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE		RATIO
==	====== ========	====	========	=======	=======	==========		=====
* 47 Bromochloromethane						CAS #: 74-97-5		
9.446	9.446 (1.000)	130	391319	10.0000		70.00- 130.00		100.00
9.446	9.446 (1.000)	128	305204			0.00- 30.00		77.99
9.418	9.418 (1.000)	49	713993			0.00- 30.00		182.46
* 60 1,4-Difluorobenzene						CAS #: 540-36-3		
10.718	10.718 (1.000)	114	1518352	10.0000		70.00- 130.00		100.00
10.718	10.718 (1.000)	88	251936			0.00- 46.62		16.59
* 80 Chlorobenzene-d5						CAS #: 3114-55-4		
15.916	15.916 (1.000)	117	1098697	10.0000		70.00- 130.00		100.00
15.916	15.916 (1.000)	82	630115			0.00- 30.00		57.35
3 Freon 152A						CAS #: 75-37-6		
2.395	2.395 (0.254)	65	11068	0.50000	0.5037	70.00- 130.00		100.00
2.395	2.395 (0.254)	51	26481			0.00- 30.00		239.26
15 Vinyl Bromide						CAS #: 593-60-2		
5.547	5.547 (0.587)	106	9589	0.50000	0.4388	70.00- 130.00		100.00(a)
5.547	5.547 (0.587)	108	8527			0.00- 30.00		88.92

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
39 2,4-Dimethylpentane					CAS #: 108-08-7		
8.782	8.782 (0.930)	57	44549	0.50000	0.3548	70.00- 130.00	100.00(a)
8.782	8.782 (0.930)	43	58426			0.00- 30.00	131.15
8.782	8.782 (0.930)	85	11460			0.00- 30.00	25.72
42 Ethyl Acetate					CAS #: 141-78-6		
9.225	9.225 (0.977)	43	43517	0.50000	0.3072	70.00- 130.00	100.00(a)
9.252	9.252 (0.980)	70	4064			0.00- 30.00	9.34
9.225	9.225 (0.977)	61	5806			0.00- 30.00	13.34
46 2,3-Dimethylpentane					CAS #: 565-59-3		
9.695	9.695 (0.905)	71	28732	1.00000	0.8283	70.00- 130.00	100.00
9.695	9.695 (0.905)	56	88066			0.00- 30.00	306.51
9.695	9.695 (0.905)	43	75101			0.00- 30.00	261.38
69 Octane					CAS #: 111-65-9		
13.538	13.538 (1.263)	57	26568	0.50000	0.3863	70.00- 130.00	100.00(a)
13.538	13.538 (1.263)	85	25259			72.14- 132.14	95.07
13.538	13.538 (1.263)	43	74482			235.35- 295.35	280.34
82 Nonane					CAS #: 111-84-2		
16.247	16.247 (1.021)	43	66116	0.50000	0.3286	70.00- 130.00	100.00(a)
16.247	16.247 (1.021)	57	52925			0.00- 30.00	80.05
16.275	16.275 (1.023)	85	20015			0.00- 30.00	30.27
88 alpha-Pinene					CAS #: 80-53-8		
17.381	17.381 (1.092)	93	67861	0.50000	0.3298	70.00- 130.00	100.00(a)
17.381	17.381 (1.092)	121	8379			0.00- 30.00	12.35
17.381	17.381 (1.092)	92	29752			0.00- 30.00	43.84
93 2-Chlorotoluene					CAS #: 95-49-8		
18.266	18.266 (1.148)	126	33916	0.50000	0.4239	70.00- 130.00	100.00(a)
18.266	18.266 (1.148)	91	106993			0.00- 30.00	315.46
18.266	18.266 (1.148)	65	11188			0.00- 30.00	32.99
95 Decane					CAS #: 124-18-5		
18.321	18.321 (1.151)	57	79344	0.50000	0.3490	70.00- 130.00	100.00(a)
18.321	18.321 (1.151)	71	26680			0.00- 30.00	33.63
18.349	18.349 (1.153)	142	3483			0.00- 30.00	4.39
101 sec-Butylbenzene					CAS #: 135-98-8		
19.289	19.289 (1.212)	105	156372	0.50000	0.3901	70.00- 130.00	100.00(a)
19.289	19.289 (1.212)	134	32202			0.00- 30.00	20.59
19.289	19.289 (1.212)	91	26212			0.00- 30.00	16.76
104 1,2,3-Trimethylbenzene					CAS #: 526-73-8		
19.676	19.676 (1.236)	120	40109	0.50000	0.3701	70.00- 130.00	100.00(a)

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
104 1,2,3-Trimethylbenzene (continued)							
19.676	19.676 (1.236)	105	100422			0.00- 30.00	250.37
19.648	19.648 (1.235)	77	12563			0.00- 30.00	31.32
108 Butylbenzene					CAS #: 104-51-8		
20.035	20.035 (1.259)	134	33090	0.50000	0.3831	70.00- 130.00	100.00(a)
20.035	20.035 (1.259)	91	133995			340.77- 400.77	404.94
20.035	20.035 (1.259)	92	74323			0.00- 30.00	224.61

QC Flag Legend

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

Report Date: 12-Mar-2008 14:35

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdy.i
Lab File ID: y031126.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: ej
Method File: /chem/msdy.i/y-11mar.b/t14ll0226b.m
Misc Info: 50ppbv->0.5ppbv

Calibration Date: 11-MAR-2008
Calibration Time: 17:44
Client Smp ID: Level 6
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 Bromochloromethan	424269	254561	593977	391319	-7.77
60 1,4-Difluorobenze	1740856	1044514	2437198	1518352	-12.78
80 Chlorobenzene-d5	1235672	741403	1729941	1098697	-11.09

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 Bromochloromethan	9.45	9.12	9.78	9.45	0.00
60 1,4-Difluorobenze	10.72	10.39	11.05	10.72	0.00
80 Chlorobenzene-d5	15.92	15.59	16.25	15.92	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/msdy.i/y-11mar.b/y031126.d

Date : 12-MAR-2008 10:12

Client ID: Level 6

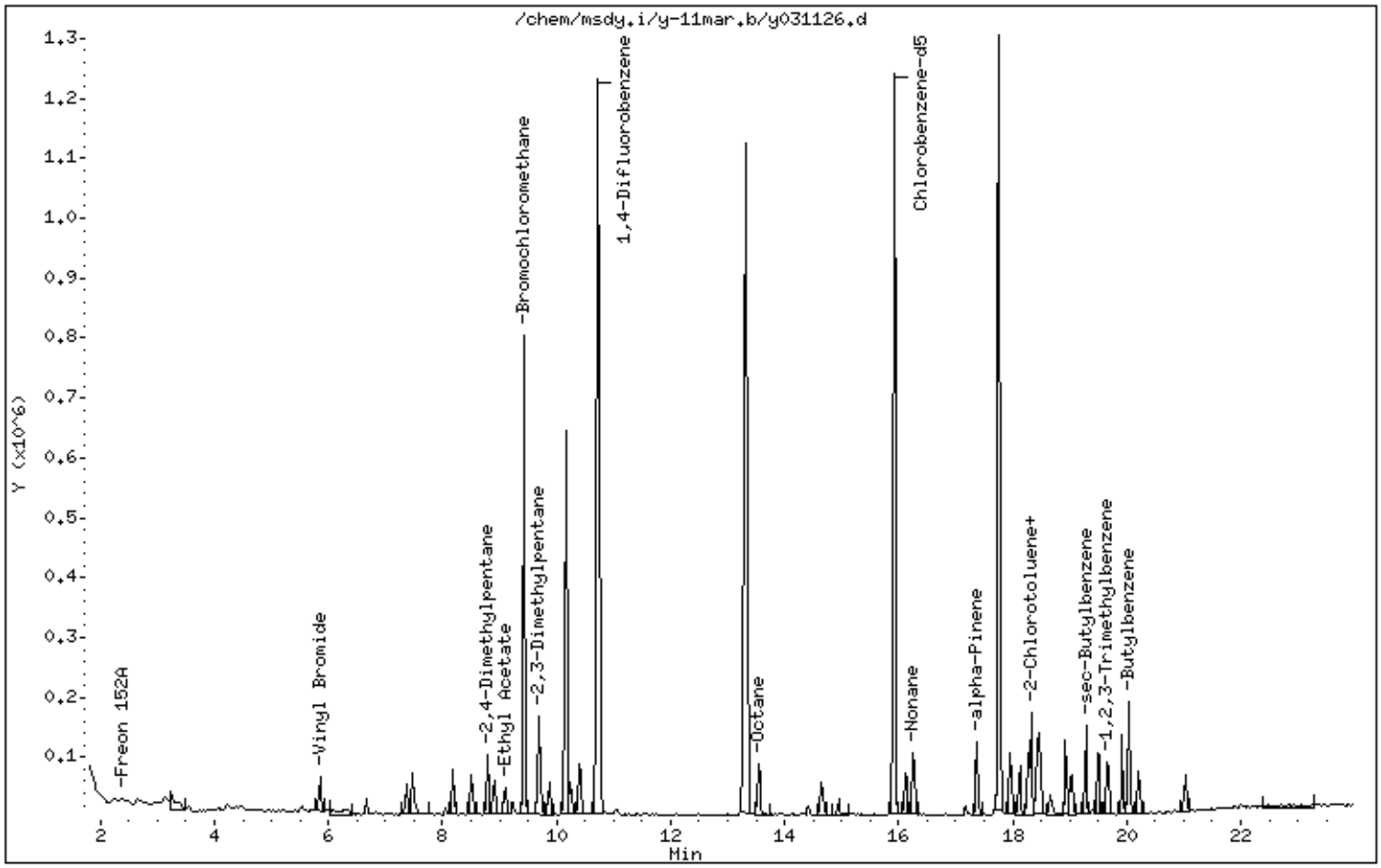
Instrument: msdy.i

Sample Info: 5.0mL #1576-315

Operator: ej

Column phase: RTx-624

Column diameter: 0.32



Air Toxics Ltd.

AMBIENT AIR METHOD TO14/TO15

Data file : /chem/msdy.i/y-26feb.b/y022606.d
Lab Smp Id: ICAL Client Smp ID: Level 6
Inj Date : 26-FEB-2008 11:57
Operator : db Inst ID: msdy.i
Smp Info : 125ml #1576-300 2.0ppbv
Misc Info : 2.0ppbv->0.5ppbv
Comment :
Method : /chem/msdy.i/y-26feb.b/t14ll0226a.m
Meth Date : 04-Mar-2008 09:42 ejakob Quant Type: ISTD
Cal Date : 26-FEB-2008 11:57 Cal File: y022606.d
Als bottle: 1 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT06ENSRmdl.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				AMOUNTS				
				CAL-AMT	ON-COL			
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE		RATIO
==	====== ========	====	========	=======	=======	==========		=====
* 47 Bromochloromethane						CAS #: 74-97-5		
9.418	9.418 (1.000)	130	395736	10.0000		70.00- 130.00		100.00
9.418	9.418 (1.000)	128	308743			0.00- 30.00		78.02
9.418	9.418 (1.000)	49	751463			0.00- 30.00		189.89
* 60 1,4-Difluorobenzene						CAS #: 540-36-3		
10.717	10.717 (1.000)	114	1725933	10.0000		70.00- 130.00		100.00
10.717	10.717 (1.000)	88	289842			0.00- 47.22		16.79
* 80 Chlorobenzene-d5						CAS #: 3114-55-4		
15.916	15.916 (1.000)	117	1219482	10.0000		70.00- 130.00		100.00
15.916	15.916 (1.000)	82	720540			0.00- 30.00		59.09
$ 57 1,2-Dichloroethane-d4						CAS #: 17060-07-0		
10.165	10.165 (1.079)	65	564431	10.0000	9.934	70.00- 130.00		100.00
10.165	10.165 (1.079)	67	304861			0.00- 30.00		54.01
$ 70 Toluene-d8						CAS #: 2037-26-5		
13.317	13.317 (1.242)	98	1701953	10.0000	9.791	70.00- 130.00		100.00
13.317	13.317 (1.242)	70	186949			0.00- 40.98		10.98

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
$ 70 Toluene-d8 (continued)							
13.317	13.317 (1.242)	100	1124838			36.13- 96.13	66.09
$ 92 Bromofluorobenzene					CAS #: 460-00-4		
17.768	17.768 (1.116)	174	670448	10.0000	9.999	70.00- 130.00	100.00
17.768	17.768 (1.116)	95	1044312			129.64- 189.64	155.76
17.768	17.768 (1.116)	176	631294			66.74- 126.74	94.16
2 Propylene					CAS #: 115-07-1		
2.257	2.257 (0.240)	41	19977	0.50000	0.5341	70.00- 130.00	100.00
2.257	2.257 (0.240)	42	10873			0.00- 30.00	54.43
2.257	2.257 (0.240)	39	13232			0.00- 30.00	66.24
4 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
2.423	2.423 (0.257)	85	53761	0.50000	0.4456	70.00- 130.00	100.00
2.450	2.450 (0.260)	87	16423			1.87- 61.87	30.55
6 Freon 114					CAS #: 76-14-2		
3.003	3.003 (0.319)	135	32227	0.50000	0.4428	70.00- 130.00	100.00
3.031	3.031 (0.322)	137	11669			0.00- 30.00	36.21
7 Chloromethane					CAS #: 74-87-3		
3.142	3.142 (0.334)	50	25804	0.50000	0.5090	70.00- 130.00	100.00
3.169	3.169 (0.336)	52	11005			0.00- 30.00	42.65
9 Vinyl Chloride					CAS #: 75-01-4		
3.612	3.612 (0.383)	62	25953	0.50000	0.5207	70.00- 130.00	100.00
3.612	3.612 (0.383)	64	7419			0.38- 60.38	28.59
10 1,3-Butadiene					CAS #: 106-99-0		
3.750	3.750 (0.398)	54	17903	0.50000	0.5340	70.00- 130.00	100.00
3.750	3.750 (0.398)	39	17164			0.00- 30.00	95.87
12 Bromomethane					CAS #: 74-83-9		
4.718	4.718 (0.501)	94	10265	0.50000	0.4788	70.00- 130.00	100.00
4.718	4.718 (0.501)	96	11745			62.34- 122.34	114.42
13 Chloroethane					CAS #: 75-00-3		
5.105	5.105 (0.542)	64	11956	0.50000	0.6068	70.00- 130.00	100.00
5.105	5.105 (0.542)	66	3432			0.00- 30.00	28.71
5.077	5.077 (0.539)	49	3190			0.00- 30.00	26.68
16 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
5.685	5.685 (0.604)	101	50631	0.50000	0.4931	70.00- 130.00	100.00
5.685	5.685 (0.604)	103	34489			34.71- 94.71	68.12

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
17 Ethanol					CAS #: 64-17-5		
6.570	6.570 (0.698)	45	17253	0.50000	0.6366	70.00- 130.00	100.00(H)
6.570	6.570 (0.698)	43	3694			0.00- 30.00	21.41
6.570	6.570 (0.698)	46	8108			0.00- 30.00	46.99
20 Freon 113					CAS #: 76-13-1		
6.764	6.764 (0.718)	151	32219	0.50000	0.5166	70.00- 130.00	100.00
6.764	6.764 (0.718)	153	21565			32.84- 92.84	66.93
6.764	6.764 (0.718)	101	43082			0.00- 30.00	133.72
18 1,1-Dichloroethene					CAS #: 75-35-4		
6.736	6.736 (0.715)	98	13885	0.50000	0.5162	70.00- 130.00	100.00
6.708	6.708 (0.712)	61	43827			0.00- 30.00	315.64
6.708	6.708 (0.712)	96	22778			0.00- 30.00	164.05
24 Acetone					CAS #: 67-64-1		
7.040	7.040 (0.748)	43	56989	0.50000	0.5680	70.00- 130.00	100.00(H)
7.040	7.040 (0.748)	58	20354			0.00- 30.00	35.72
28 2-Propanol					CAS #: 67-63-0		
7.400	7.400 (0.786)	45	55103	0.50000	0.5948	70.00- 130.00	100.00
7.400	7.400 (0.786)	43	12038			0.00- 30.00	21.85
7.400	7.400 (0.786)	59	2567			0.00- 30.00	4.66
21 Carbon Disulfide					CAS #: 75-15-0		
6.902	6.902 (0.733)	76	69351	0.50000	0.5116	70.00- 130.00	100.00
29 Methylene Chloride					CAS #: 75-09-2		
7.621	7.621 (0.809)	84	24883	0.50000	0.5582	70.00- 130.00	100.00
7.593	7.593 (0.806)	49	38314			133.37- 193.37	153.98
7.593	7.593 (0.806)	51	12175			0.00- 30.00	48.93
32 MTBE					CAS #: 1634-04-4		
7.925	7.925 (0.841)	73	79144	0.50000	0.4536	70.00- 130.00	100.00
7.897	7.897 (0.839)	57	29398			0.00- 30.00	37.14
7.897	7.897 (0.839)	41	31975			0.00- 30.00	40.40
33 trans-1,2-Dichloroethene					CAS #: 156-60-5		
7.897	7.897 (0.839)	98	18016	0.50000	0.5276	70.00- 130.00	100.00
7.897	7.897 (0.839)	61	48837			0.00- 30.00	271.08
7.897	7.897 (0.839)	96	30240			0.00- 30.00	167.85
34 Hexane					CAS #: 110-54-3		
8.174	8.174 (0.868)	57	58915	0.50000	0.5231	70.00- 130.00	100.00
8.174	8.174 (0.868)	43	39379			0.00- 30.00	66.84
8.174	8.174 (0.868)	86	8754			0.00- 30.00	14.86

				AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
RT	EXP RT (REL RT)	MASS	RESPONSE				
38 1,1-Dichloroethane					CAS #: 75-34-3		
8.478	8.478 (0.900)	63	59836	0.50000	0.5285	70.00- 130.00	100.00
8.478	8.478 (0.900)	65	19350			0.62- 60.62	32.34
44 2-Butanone					CAS #: 78-93-3		
9.197	9.197 (0.976)	72	15631	0.50000	0.5285	70.00- 130.00	100.00
9.197	9.197 (0.976)	43	77926			447.89- 507.89	498.53
9.197	9.197 (0.976)	57	7188			0.00- 30.00	45.99
43 cis-1,2-Dichloroethene					CAS #: 156-59-2		
9.141	9.141 (0.971)	98	19181	0.50000	0.5182	70.00- 130.00	100.00
9.141	9.141 (0.971)	61	44676			206.32- 266.32	232.92
9.141	9.141 (0.971)	96	31016			129.63- 189.63	161.70
45 Tetrahydrofuran					CAS #: 109-99-9		
9.446	9.446 (1.003)	42	44501	0.50000	0.5121	70.00- 130.00	100.00
9.446	9.446 (1.003)	71	16147			0.00- 30.00	36.28
9.446	9.446 (1.003)	72	16185			0.00- 30.00	36.37
48 Chloroform					CAS #: 67-66-3		
9.529	9.529 (1.012)	83	56255	0.50000	0.5204	70.00- 130.00	100.00
9.529	9.529 (1.012)	85	34815			34.44- 94.44	61.89
51 1,1,1-Trichloroethane					CAS #: 71-55-6		
9.667	9.667 (1.026)	97	56074	0.50000	0.4467	70.00- 130.00	100.00
9.667	9.667 (1.026)	99	37816			33.37- 93.37	67.44
50 Cyclohexane					CAS #: 110-82-7		
9.639	9.639 (1.023)	84	47741	0.50000	0.5260	70.00- 130.00	100.00
9.639	9.639 (1.023)	56	65639			0.00- 30.00	137.49
9.639	9.639 (1.023)	41	37287			0.00- 30.00	78.10
52 Carbon Tetrachloride					CAS #: 56-23-5		
9.833	9.833 (1.044)	119	37318	0.50000	0.4295	70.00- 130.00	100.00
9.833	9.833 (1.044)	117	39461			72.88- 132.88	105.74
56 Benzene					CAS #: 71-43-2		
10.137	10.137 (0.946)	78	114905	0.50000	0.5548	70.00- 130.00	100.00
10.137	10.137 (0.946)	77	27647			0.00- 30.00	24.06
58 1,2-Dichloroethane					CAS #: 107-06-2		
10.275	10.275 (0.959)	62	45959	0.50000	0.5345	70.00- 130.00	100.00
10.247	10.247 (0.956)	64	13211			0.00- 30.00	28.75
59 Heptane					CAS #: 142-82-5		
10.386	10.386 (0.969)	43	74581	0.50000	0.5088	70.00- 130.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
59 Heptane (continued)							
10.386	10.386 (0.969)	57	41184			0.00- 30.00	55.22
10.386	10.386 (0.969)	100	11160			0.00- 30.00	14.96
61 Trichloroethene					CAS #: 79-01-6		
11.049	11.049 (1.031)	130	41509	0.50000	0.4596	70.00- 130.00	100.00
11.049	11.049 (1.031)	95	41697			0.00- 30.00	100.45
11.049	11.049 (1.031)	97	27332			0.00- 30.00	65.85
64 1,2-Dichloropropane					CAS #: 78-87-5		
11.492	11.492 (1.072)	63	40543	0.50000	0.5142	70.00- 130.00	100.00
11.492	11.492 (1.072)	62	31113			42.56- 102.56	76.74
11.492	11.492 (1.072)	41	21909			26.79- 86.79	54.04
65 1,4-Dioxane					CAS #: 123-91-1		
11.685	11.685 (1.090)	88	16510	0.50000	0.5372	70.00- 130.00	100.00
11.685	11.685 (1.090)	58	15656			53.67- 113.67	94.83
11.685	11.685 (1.090)	57	7638			0.00- 30.00	46.26
66 Bromodichloromethane					CAS #: 75-27-4		
11.962	11.962 (1.116)	83	55943	0.50000	0.4397	70.00- 130.00	100.00
11.962	11.962 (1.116)	85	37777			34.78- 94.78	67.53
67 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
12.874	12.874 (1.201)	75	48288	0.50000	0.4987	70.00- 130.00	100.00
12.874	12.874 (1.201)	77	18391			1.54- 61.54	38.09
12.874	12.874 (1.201)	39	26335			27.04- 87.04	54.54
68 4-Methyl-2-pentanone					CAS #: 108-10-1		
13.178	13.178 (1.230)	43	77881	0.50000	0.5114	70.00- 130.00	100.00
13.178	13.178 (1.230)	58	32478			0.00- 30.00	41.70
13.178	13.178 (1.230)	85	11266			0.00- 30.00	14.47
72 Toluene					CAS #: 108-88-3		
13.427	13.427 (1.253)	91	113613	0.50000	0.5130	70.00- 130.00	100.00
13.427	13.427 (1.253)	92	69351			30.12- 90.12	61.04
73 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
14.035	14.035 (0.882)	75	43764	0.50000	0.4800	70.00- 130.00	100.00
14.035	14.035 (0.882)	77	18265			2.45- 62.45	41.74
14.008	14.008 (0.880)	39	24628			25.24- 85.24	56.27
74 1,1,2-Trichloroethane					CAS #: 79-00-5		
14.340	14.340 (0.901)	97	39552	0.50000	0.4733	70.00- 130.00	100.00
14.340	14.340 (0.901)	99	24705			33.49- 93.49	62.46
14.340	14.340 (0.901)	83	32861			54.93- 114.93	83.08

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
75 Tetrachloroethene					CAS #: 127-18-4		
14.423	14.423 (0.906)	166	48650	0.50000	0.4665	70.00- 130.00	100.00
14.423	14.423 (0.906)	129	37972			48.45- 108.45	78.05
14.423	14.423 (0.906)	131	37083			45.97- 105.97	76.22
76 2-Hexanone					CAS #: 591-78-6		
14.754	14.754 (0.927)	58	39053	0.50000	0.5429	70.00- 130.00	100.00
14.754	14.754 (0.927)	43	72257			152.66- 212.66	185.02
14.782	14.782 (0.929)	100	7351			0.00- 30.00	18.82
77 Dibromochloromethane					CAS #: 124-48-1		
14.976	14.976 (0.941)	129	51329	0.50000	0.5002	70.00- 130.00	100.00
14.976	14.976 (0.941)	127	38928			0.00- 30.00	75.84
15.003	15.003 (0.943)	208	2709			0.00- 30.00	5.28
78 1,2-Dibromoethane					CAS #: 106-93-4		
15.197	15.197 (0.955)	107	57049	0.50000	0.4770	70.00- 130.00	100.00
15.197	15.197 (0.955)	109	50652			63.27- 123.27	88.79
81 Chlorobenzene					CAS #: 108-90-7		
15.971	15.971 (1.003)	112	97968	0.50000	0.5211	70.00- 130.00	100.00
15.971	15.971 (1.003)	114	30691			1.00- 61.00	31.33
15.971	15.971 (1.003)	77	69259			31.49- 91.49	70.70
84 Ethyl Benzene					CAS #: 100-41-4		
16.109	16.109 (1.012)	106	51035	0.50000	0.5146	70.00- 130.00	100.00
16.109	16.109 (1.012)	91	162285			0.00- 30.00	317.99
85 m,p-Xylene					CAS #: 108-38-3		
16.303	16.303 (1.024)	106	66557	0.50000	0.5226	70.00- 130.00	100.00
16.303	16.303 (1.024)	91	135011			0.00- 30.00	202.85
86 o-Xylene					CAS #: 95-47-6		
16.911	16.911 (1.063)	106	61825	0.50000	0.5195	70.00- 130.00	100.00
16.911	16.911 (1.063)	91	130112			184.90- 244.90	210.45
87 Styrene					CAS #: 100-42-5		
16.966	16.966 (1.066)	104	90347	0.50000	0.4969	70.00- 130.00	100.00
16.966	16.966 (1.066)	78	50081			21.93- 81.93	55.43
89 Bromoform					CAS #: 75-25-2		
17.270	17.270 (1.085)	173	37693	0.50000	0.4480	70.00- 130.00	100.00
17.270	17.270 (1.085)	171	19052			21.60- 81.60	50.55
90 Cumene					CAS #: 98-82-8		
17.464	17.464 (1.097)	105	177877	0.50000	0.5158	70.00- 130.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
90 Cumene (continued)							
17.464	17.464 (1.097)	120	46281			0.00- 56.96	26.02
94 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
18.045	18.045 (1.134)	83	82128	0.50000	0.4595	70.00- 130.00	100.00
18.045	18.045 (1.134)	85	52982			34.07- 94.07	64.51
96 Propylbenzene					CAS #: 103-65-1		
18.100	18.100 (1.137)	91	219405	0.50000	0.5154	70.00- 130.00	100.00
18.100	18.100 (1.137)	120	49975			0.00- 30.00	22.78
97 4-Ethyltoluene					CAS #: 622-96-8		
18.293	18.293 (1.149)	105	184414	0.50000	0.5105	70.00- 130.00	100.00
18.293	18.293 (1.149)	120	54131			0.00- 59.76	29.35
98 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
18.404	18.404 (1.156)	105	155773	0.50000	0.5188	70.00- 130.00	100.00
18.404	18.404 (1.156)	120	76109			20.37- 80.37	48.86
102 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
19.040	19.040 (1.196)	105	149360	0.50000	0.5116	70.00- 130.00	100.00
19.040	19.040 (1.196)	120	68931			16.98- 76.98	46.15
105 1,3-Dichlorobenzene					CAS #: 541-73-1		
19.482	19.482 (1.224)	146	93325	0.50000	0.4840	70.00- 130.00	100.00
19.482	19.482 (1.224)	148	60379			0.00- 30.00	64.70
19.482	19.482 (1.224)	111	42919			0.00- 30.00	45.99
106 1,4-Dichlorobenzene					CAS #: 106-46-7		
19.621	19.621 (1.233)	146	99928	0.50000	0.4976	70.00- 130.00	100.00
19.621	19.621 (1.233)	148	61160			0.00- 30.00	61.20
19.621	19.621 (1.233)	111	43779			0.00- 30.00	43.81
109 alpha-chlorotoluene					CAS #: 100-44-7		
19.814	19.814 (1.245)	91	89025	0.50000	0.4320	70.00- 130.00	100.00
19.814	19.814 (1.245)	126	18441			0.00- 30.00	20.71
112 1,2-Dichlorobenzene					CAS #: 95-50-1		
20.118	20.118 (1.264)	146	89771	0.50000	0.4678	70.00- 130.00	100.00
20.118	20.118 (1.264)	148	56220			34.12- 94.12	62.63
20.118	20.118 (1.264)	111	39733			14.42- 74.42	44.26
114 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
21.916	21.916 (1.377)	180	65205	0.50000	0.5382	70.00- 130.00	100.00
21.916	21.916 (1.377)	182	55141			64.21- 124.21	84.57

				AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
RT	EXP RT (REL RT)	MASS	RESPONSE				
115 Hexachlorobutadiene					CAS #: 87-68-3		
22.054	22.054 (1.386)	225	47110	0.50000	0.5241	70.00- 130.00	100.00
22.054	22.054 (1.386)	223	30064			0.00- 30.00	63.82
55 2,2,4-Trimethylpentane					CAS #: 540-84-1		
10.137	10.137 (1.076)	56	62170	0.50000	0.5240	70.00- 130.00	100.00
10.137	10.137 (1.076)	99	9451			0.00- 30.00	15.20
10.137	10.137 (1.076)	41	46143			0.00- 30.00	74.22
22 3-Chloroprene					CAS #: 107-05-1		
6.902	6.902 (0.733)	76	69351	0.50000	0.5116	70.00- 130.00	100.00
6.874	6.874 (0.730)	41	482			0.00- 30.00	0.70
35 Vinyl Acetate					CAS #: 108-05-4		
8.561	8.561 (0.909)	43	40579	0.50000	0.4665	70.00- 130.00	100.00
8.561	8.561 (0.909)	42	4341			0.00- 30.00	10.70
8.561	8.561 (0.909)	86	3639			0.00- 30.00	8.97
14 Isopentane					CAS #: 78-78-4		
5.188	5.188 (0.551)	57	26834	0.50000	0.5496	70.00- 130.00	100.00
5.215	5.215 (0.554)	43	35562			0.00- 30.00	132.53
5.188	5.188 (0.551)	42	29770			0.00- 30.00	110.94
63 Methylcyclohexane					CAS #: 108-87-2		
11.243	11.243 (1.194)	83	61154	0.50000	0.5139	70.00- 130.00	100.00
11.243	11.243 (1.194)	98	28772			0.00- 30.00	47.05
11.243	11.243 (1.194)	55	59124			0.00- 30.00	96.68
8 Butane					CAS #: 106-97-8		
3.529	3.529 (0.375)	58	6133	0.50000	0.5310	70.00- 130.00	100.00
3.529	3.529 (0.375)	43	37232			0.00- 30.00	607.08
117 Naphthalene					CAS #: 91-20-3		
22.220	22.220 (1.396)	128	139783	0.50000	0.5480	70.00- 130.00	100.00
22.220	22.220 (1.396)	127	20946			0.00- 30.00	14.98

QC Flag Legend

H - Operator selected an alternate compound hit.

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdy.i
Lab File ID: y022606.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: db
Method File: /chem/msdy.i/y-26feb.b/t14ll0226a.m
Misc Info: 2.0ppbv->0.5ppbv

Calibration Date: 26-FEB-2008
Calibration Time: 13:56
Client Smp ID: Level 6
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 Bromochloromethan	420808	252485	589131	395736	-5.96
60 1,4-Difluorobenze	1780063	1068038	2492088	1725933	-3.04
80 Chlorobenzene-d5	1282640	769584	1795696	1219482	-4.92

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 Bromochloromethan	9.45	9.12	9.78	9.42	-0.30
60 1,4-Difluorobenze	10.72	10.39	11.05	10.72	0.00
80 Chlorobenzene-d5	15.92	15.59	16.25	15.92	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/msdy.i/y-26feb.b/y022606.d

Date : 26-FEB-2008 11:57

Client ID: Level 6

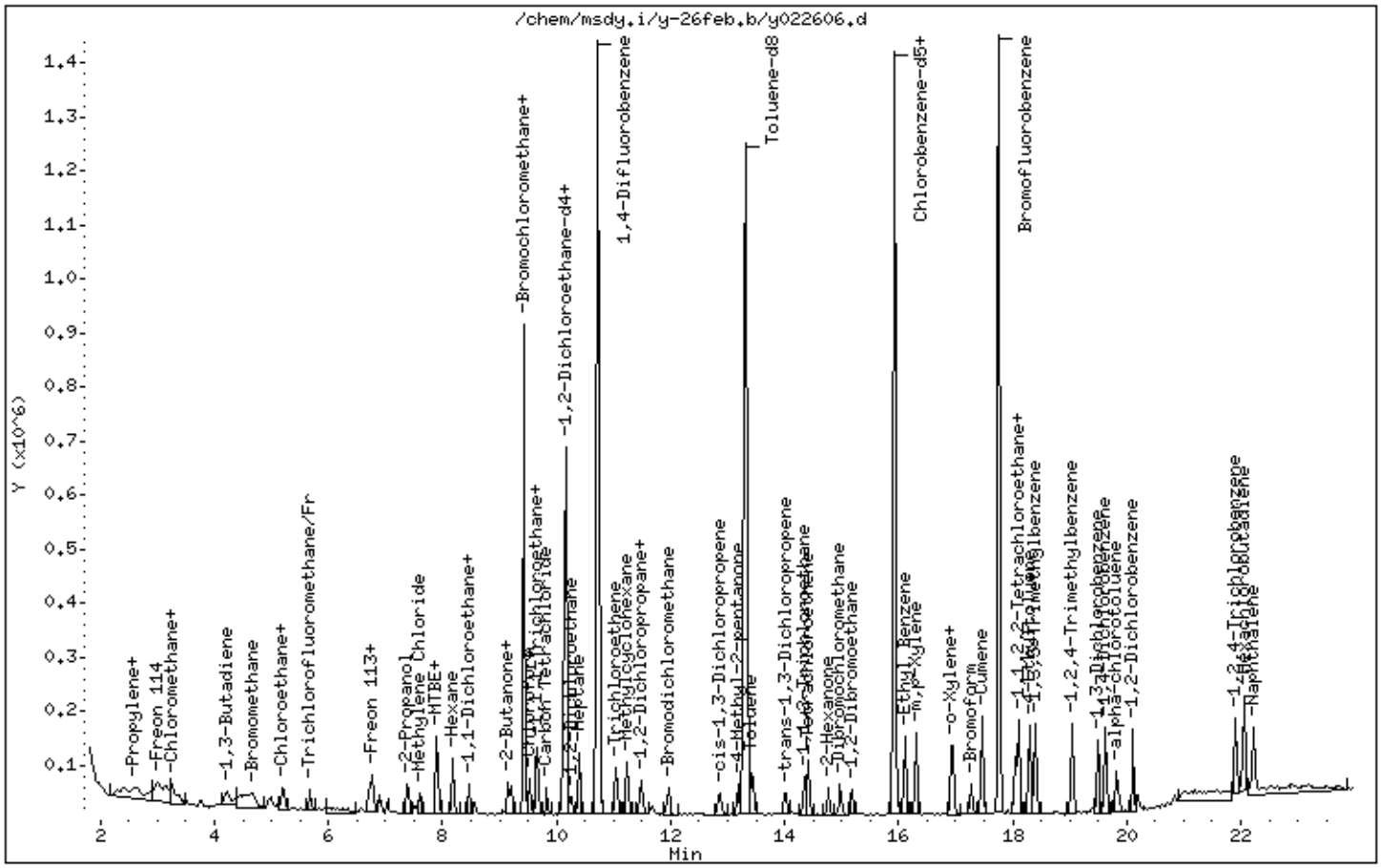
Instrument: msdy.i

Sample Info: 125ml #1576-300 2.0ppbv

Operator: db

Column phase: RTx-624

Column diameter: 0.32



Air Toxics Ltd.

AMBIENT AIR METHOD TO14/TO15

Data file : /chem/msdy.i/y-26feb.b/y022607.d
Lab Smp Id: ICAL Client Smp ID: Level 7
Inj Date : 26-FEB-2008 13:25
Operator : db Inst ID: msdy.i
Smp Info : 500ml #1576-300 2.0ppbv
Misc Info : 2.0ppbv->2.0ppbv
Comment :
Method : /chem/msdy.i/y-26feb.b/t14ll0226a.m
Meth Date : 04-Mar-2008 09:42 ejakob Quant Type: ISTD
Cal Date : 26-FEB-2008 13:25 Cal File: y022607.d
Als bottle: 1 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT06ENSR.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				AMOUNTS				
				CAL-AMT	ON-COL			
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE		RATIO
==	====== ========	====	========	=======	=======	==========		=====
* 47 Bromochloromethane						CAS #: 74-97-5		
9.446	9.446 (1.000)	130	338301	10.0000		70.00- 130.00		100.00
9.446	9.446 (1.000)	128	266325			0.00- 30.00		78.72
9.418	9.418 (1.000)	49	622207			0.00- 30.00		183.92
* 60 1,4-Difluorobenzene						CAS #: 540-36-3		
10.718	10.718 (1.000)	114	1558540	10.0000		70.00- 130.00		100.00
10.718	10.718 (1.000)	88	267171			0.00- 47.22		17.14
* 80 Chlorobenzene-d5						CAS #: 3114-55-4		
15.916	15.916 (1.000)	117	1196703	10.0000		70.00- 130.00		100.00
15.916	15.916 (1.000)	82	700939			0.00- 30.00		58.57
$ 57 1,2-Dichloroethane-d4						CAS #: 17060-07-0		
10.165	10.165 (1.076)	65	510336	10.0000	10.375	70.00- 130.00		100.00
10.165	10.165 (1.076)	67	272750			0.00- 30.00		53.45
$ 70 Toluene-d8						CAS #: 2037-26-5		
13.317	13.317 (1.242)	98	1622898	10.0000	10.252	70.00- 130.00		100.00
13.317	13.317 (1.242)	70	177343			0.00- 40.98		10.93

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
$ 70 Toluene-d8 (continued)							
13.317	13.317 (1.242)	100	1073284			36.13- 96.13	66.13
$ 92 Bromofluorobenzene					CAS #: 460-00-4		
17.768	17.768 (1.116)	174	638497	10.0000	9.776	70.00- 130.00	100.00
17.768	17.768 (1.116)	95	1034915			129.64- 189.64	162.09
17.768	17.768 (1.116)	176	624621			66.74- 126.74	97.83
2 Propylene					CAS #: 115-07-1		
2.229	2.229 (0.236)	41	67587	2.00000	2.074	70.00- 130.00	100.00
2.229	2.229 (0.236)	42	45221			0.00- 30.00	66.91
2.257	2.257 (0.239)	39	48819			0.00- 30.00	72.23
4 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
2.395	2.395 (0.254)	85	192089	2.00000	1.895	70.00- 130.00	100.00
2.423	2.423 (0.256)	87	60713			1.87- 61.87	31.61
6 Freon 114					CAS #: 76-14-2		
3.003	3.003 (0.318)	135	121299	2.00000	1.962	70.00- 130.00	100.00
3.003	3.003 (0.318)	137	40299			0.00- 30.00	33.22
7 Chloromethane					CAS #: 74-87-3		
3.114	3.114 (0.330)	50	103027	2.00000	2.237	70.00- 130.00	100.00
3.114	3.114 (0.330)	52	26648			0.00- 30.00	25.87
9 Vinyl Chloride					CAS #: 75-01-4		
3.612	3.612 (0.382)	62	87518	2.00000	2.036	70.00- 130.00	100.00
3.584	3.584 (0.379)	64	27515			0.38- 60.38	31.44
10 1,3-Butadiene					CAS #: 106-99-0		
3.750	3.750 (0.397)	54	51638	2.00000	1.863	70.00- 130.00	100.00
3.750	3.750 (0.397)	39	37886			0.00- 30.00	73.37
12 Bromomethane					CAS #: 74-83-9		
4.718	4.718 (0.499)	94	51632	2.00000	2.480	70.00- 130.00	100.00
4.718	4.718 (0.499)	96	51260			62.34- 122.34	99.28
13 Chloroethane					CAS #: 75-00-3		
5.077	5.077 (0.538)	64	31208	2.00000	1.899	70.00- 130.00	100.00
5.077	5.077 (0.538)	66	11293			0.00- 30.00	36.19
5.077	5.077 (0.538)	49	16681			0.00- 30.00	53.45
16 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
5.658	5.658 (0.599)	101	155698	2.00000	1.826	70.00- 130.00	100.00
5.685	5.685 (0.602)	103	102813			34.71- 94.71	66.03

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
17 Ethanol					CAS #: 64-17-5		
6.570	6.570 (0.696)	45	47833	2.00000	2.043	70.00- 130.00	100.00
6.570	6.570 (0.696)	43	11855			0.00- 30.00	24.78
6.570	6.570 (0.696)	46	18988			0.00- 30.00	39.70
20 Freon 113					CAS #: 76-13-1		
6.764	6.764 (0.716)	151	86261	2.00000	1.699	70.00- 130.00	100.00
6.764	6.764 (0.716)	153	54441			32.84- 92.84	63.11
6.764	6.764 (0.716)	101	109628			0.00- 30.00	127.09
18 1,1-Dichloroethene					CAS #: 75-35-4		
6.708	6.708 (0.710)	98	33972	2.00000	1.618	70.00- 130.00	100.00
6.708	6.708 (0.710)	61	108497			0.00- 30.00	319.37
6.708	6.708 (0.710)	96	50817			0.00- 30.00	149.58
24 Acetone					CAS #: 67-64-1		
7.013	7.013 (0.742)	43	130015	2.00000	1.649	70.00- 130.00	100.00
7.013	7.013 (0.742)	58	42772			0.00- 30.00	32.90
28 2-Propanol					CAS #: 67-63-0		
7.400	7.400 (0.783)	45	130271	2.00000	1.748	70.00- 130.00	100.00
7.400	7.400 (0.783)	43	23400			0.00- 30.00	17.96
7.400	7.400 (0.783)	59	5053			0.00- 30.00	3.88
21 Carbon Disulfide					CAS #: 75-15-0		
6.902	6.902 (0.731)	76	168408	2.00000	1.599	70.00- 130.00	100.00
29 Methylene Chloride					CAS #: 75-09-2		
7.593	7.593 (0.804)	84	41572	2.00000	1.286	70.00- 130.00	100.00
7.593	7.593 (0.804)	49	65966			133.37- 193.37	158.68
7.593	7.593 (0.804)	51	27099			0.00- 30.00	65.19
32 MTBE					CAS #: 1634-04-4		
7.925	7.925 (0.839)	73	196075	2.00000	1.438	70.00- 130.00	100.00
7.925	7.925 (0.839)	57	80854			0.00- 30.00	41.24
7.925	7.925 (0.839)	41	123895			0.00- 30.00	63.19
33 trans-1,2-Dichloroethene					CAS #: 156-60-5		
7.897	7.897 (0.836)	98	38594	2.00000	1.490	70.00- 130.00	100.00
7.897	7.897 (0.836)	61	94619			0.00- 30.00	245.17
7.897	7.897 (0.836)	96	58289			0.00- 30.00	151.03
34 Hexane					CAS #: 110-54-3		
8.174	8.174 (0.865)	57	205855	2.00000	2.090	70.00- 130.00	100.00
8.174	8.174 (0.865)	43	138710			0.00- 30.00	67.38
8.174	8.174 (0.865)	86	31617			0.00- 30.00	15.36

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
38 1,1-Dichloroethane					CAS #: 75-34-3		
8.478	8.478 (0.898)	63	194048	2.00000	2.003	70.00- 130.00	100.00
8.478	8.478 (0.898)	65	63498			0.62- 60.62	32.72
44 2-Butanone					CAS #: 78-93-3		
9.197	9.197 (0.974)	72	53549	2.00000	2.077	70.00- 130.00	100.00
9.197	9.197 (0.974)	43	252191			447.89- 507.89	470.95
9.197	9.197 (0.974)	57	19625			0.00- 30.00	36.65
43 cis-1,2-Dichloroethene					CAS #: 156-59-2		
9.142	9.142 (0.968)	98	63049	2.00000	1.995	70.00- 130.00	100.00
9.142	9.142 (0.968)	61	152659			206.32- 266.32	242.13
9.142	9.142 (0.968)	96	96887			129.63- 189.63	153.67
45 Tetrahydrofuran					CAS #: 109-99-9		
9.446	9.446 (1.000)	42	151022	2.00000	2.022	70.00- 130.00	100.00
9.446	9.446 (1.000)	71	46972			0.00- 30.00	31.10
9.446	9.446 (1.000)	72	52007			0.00- 30.00	34.44
48 Chloroform					CAS #: 67-66-3		
9.529	9.529 (1.009)	83	183672	2.00000	1.992	70.00- 130.00	100.00
9.529	9.529 (1.009)	85	120299			34.44- 94.44	65.50
51 1,1,1-Trichloroethane					CAS #: 71-55-6		
9.667	9.667 (1.023)	97	199531	2.00000	1.892	70.00- 130.00	100.00
9.667	9.667 (1.023)	99	128439			33.37- 93.37	64.37
50 Cyclohexane					CAS #: 110-82-7		
9.639	9.639 (1.020)	84	156662	2.00000	2.013	70.00- 130.00	100.00
9.639	9.639 (1.020)	56	233222			0.00- 30.00	148.87
9.639	9.639 (1.020)	41	121866			0.00- 30.00	77.79
52 Carbon Tetrachloride					CAS #: 56-23-5		
9.833	9.833 (1.041)	119	152007	2.00000	2.035	70.00- 130.00	100.00
9.833	9.833 (1.041)	117	163194			72.88- 132.88	107.36
56 Benzene					CAS #: 71-43-2		
10.137	10.137 (0.946)	78	362582	2.00000	1.959	70.00- 130.00	100.00
10.137	10.137 (0.946)	77	83626			0.00- 30.00	23.06
58 1,2-Dichloroethane					CAS #: 107-06-2		
10.275	10.275 (0.959)	62	144719	2.00000	1.907	70.00- 130.00	100.00
10.275	10.275 (0.959)	64	43966			0.00- 30.00	30.38
59 Heptane					CAS #: 142-82-5		
10.386	10.386 (0.969)	43	259951	2.00000	1.976	70.00- 130.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
59 Heptane (continued)							
10.386	10.386 (0.969)	57	135478			0.00- 30.00	52.12
10.386	10.386 (0.969)	100	39222			0.00- 30.00	15.09
61 Trichloroethene					CAS #: 79-01-6		
11.049	11.049 (1.031)	130	139701	2.00000	1.777	70.00- 130.00	100.00
11.049	11.049 (1.031)	95	138556			0.00- 30.00	99.18
11.049	11.049 (1.031)	97	94196			0.00- 30.00	67.43
64 1,2-Dichloropropane					CAS #: 78-87-5		
11.492	11.492 (1.072)	63	141638	2.00000	1.993	70.00- 130.00	100.00
11.492	11.492 (1.072)	62	101061			42.56- 102.56	71.35
11.492	11.492 (1.072)	41	80965			26.79- 86.79	57.16
65 1,4-Dioxane					CAS #: 123-91-1		
11.685	11.685 (1.090)	88	78754	2.00000	2.490	70.00- 130.00	100.00
11.685	11.685 (1.090)	58	66864			53.67- 113.67	84.90
11.685	11.685 (1.090)	57	26058			0.00- 30.00	33.09
66 Bromodichloromethane					CAS #: 75-27-4		
11.962	11.962 (1.116)	83	198429	2.00000	1.788	70.00- 130.00	100.00
11.962	11.962 (1.116)	85	125768			34.78- 94.78	63.38
67 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
12.874	12.874 (1.201)	75	175518	2.00000	2.005	70.00- 130.00	100.00
12.874	12.874 (1.201)	77	57617			1.54- 61.54	32.83
12.874	12.874 (1.201)	39	103801			27.04- 87.04	59.14
68 4-Methyl-2-pentanone					CAS #: 108-10-1		
13.178	13.178 (1.230)	43	324768	2.00000	2.228	70.00- 130.00	100.00
13.178	13.178 (1.230)	58	123083			0.00- 30.00	37.90
13.178	13.178 (1.230)	85	47121			0.00- 30.00	14.51
72 Toluene					CAS #: 108-88-3		
13.455	13.455 (1.255)	91	406592	2.00000	2.022	70.00- 130.00	100.00
13.455	13.455 (1.255)	92	244450			30.12- 90.12	60.12
73 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
14.035	14.035 (0.882)	75	183528	2.00000	2.034	70.00- 130.00	100.00
14.035	14.035 (0.882)	77	74086			2.45- 62.45	40.37
14.008	14.008 (0.880)	39	101158			25.24- 85.24	55.12
74 1,1,2-Trichloroethane					CAS #: 79-00-5		
14.340	14.340 (0.901)	97	141856	2.00000	1.790	70.00- 130.00	100.00
14.340	14.340 (0.901)	99	89373			33.49- 93.49	63.00
14.340	14.340 (0.901)	83	120396			54.93- 114.93	84.87

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
75 Tetrachloroethene					CAS #: 127-18-4		
14.423	14.423 (0.906)	166	171173	2.00000	1.744	70.00- 130.00	100.00
14.423	14.423 (0.906)	129	135817			48.45- 108.45	79.34
14.423	14.423 (0.906)	131	135019			45.97- 105.97	78.88
76 2-Hexanone					CAS #: 591-78-6		
14.782	14.782 (0.929)	58	173699	2.00000	2.285	70.00- 130.00	100.00
14.782	14.782 (0.929)	43	331881			152.66- 212.66	191.07
14.782	14.782 (0.929)	100	32892			0.00- 30.00	18.94
77 Dibromochloromethane					CAS #: 124-48-1		
14.976	14.976 (0.941)	129	195677	2.00000	1.957	70.00- 130.00	100.00
14.976	14.976 (0.941)	127	154058			0.00- 30.00	78.73
15.003	15.003 (0.943)	208	8854			0.00- 30.00	4.52
78 1,2-Dibromoethane					CAS #: 106-93-4		
15.197	15.197 (0.955)	107	206794	2.00000	1.816	70.00- 130.00	100.00
15.197	15.197 (0.955)	109	194036			63.27- 123.27	93.83
81 Chlorobenzene					CAS #: 108-90-7		
15.971	15.971 (1.003)	112	350788	2.00000	1.933	70.00- 130.00	100.00
15.971	15.971 (1.003)	114	111232			1.00- 61.00	31.71
15.971	15.971 (1.003)	77	221907			31.49- 91.49	63.26
84 Ethyl Benzene					CAS #: 100-41-4		
16.109	16.109 (1.012)	106	184298	2.00000	1.928	70.00- 130.00	100.00
16.109	16.109 (1.012)	91	595000			0.00- 30.00	322.85
85 m,p-Xylene					CAS #: 108-38-3		
16.303	16.303 (1.024)	106	238859	2.00000	1.940	70.00- 130.00	100.00
16.303	16.303 (1.024)	91	487303			0.00- 30.00	204.01
86 o-Xylene					CAS #: 95-47-6		
16.911	16.911 (1.063)	106	224724	2.00000	1.949	70.00- 130.00	100.00
16.911	16.911 (1.063)	91	481647			184.90- 244.90	214.33
87 Styrene					CAS #: 100-42-5		
16.966	16.966 (1.066)	104	354145	2.00000	1.990	70.00- 130.00	100.00
16.966	16.966 (1.066)	78	184110			21.93- 81.93	51.99
89 Bromoform					CAS #: 75-25-2		
17.270	17.270 (1.085)	173	166790	2.00000	2.015	70.00- 130.00	100.00
17.270	17.270 (1.085)	171	83160			21.60- 81.60	49.86
90 Cumene					CAS #: 98-82-8		
17.464	17.464 (1.097)	105	644088	2.00000	1.934	70.00- 130.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
90 Cumene (continued)							
17.464	17.464 (1.097)	120	179072			0.00- 56.96	27.80
94 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
18.045	18.045 (1.134)	83	313104	2.00000	1.834	70.00- 130.00	100.00
18.045	18.045 (1.134)	85	212688			34.07- 94.07	67.93
96 Propylbenzene					CAS #: 103-65-1		
18.100	18.100 (1.137)	91	808535	2.00000	1.956	70.00- 130.00	100.00
18.100	18.100 (1.137)	120	188584			0.00- 30.00	23.32
97 4-Ethyltoluene					CAS #: 622-96-8		
18.293	18.293 (1.149)	105	701168	2.00000	1.985	70.00- 130.00	100.00
18.293	18.293 (1.149)	120	211796			0.00- 59.76	30.21
98 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
18.404	18.404 (1.156)	105	576849	2.00000	1.972	70.00- 130.00	100.00
18.404	18.404 (1.156)	120	293395			20.37- 80.37	50.86
102 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
19.040	19.040 (1.196)	105	569024	2.00000	1.991	70.00- 130.00	100.00
19.040	19.040 (1.196)	120	272435			16.98- 76.98	47.88
105 1,3-Dichlorobenzene					CAS #: 541-73-1		
19.482	19.482 (1.224)	146	370005	2.00000	1.966	70.00- 130.00	100.00
19.482	19.482 (1.224)	148	229620			0.00- 30.00	62.06
19.482	19.482 (1.224)	111	158402			0.00- 30.00	42.81
106 1,4-Dichlorobenzene					CAS #: 106-46-7		
19.621	19.621 (1.233)	146	369726	2.00000	1.906	70.00- 130.00	100.00
19.621	19.621 (1.233)	148	234448			0.00- 30.00	63.41
19.621	19.621 (1.233)	111	159278			0.00- 30.00	43.08
109 alpha-chlorotoluene					CAS #: 100-44-7		
19.814	19.814 (1.245)	91	431772	2.00000	2.099	70.00- 130.00	100.00
19.814	19.814 (1.245)	126	88773			0.00- 30.00	20.56
112 1,2-Dichlorobenzene					CAS #: 95-50-1		
20.118	20.118 (1.264)	146	354568	2.00000	1.911	70.00- 130.00	100.00
20.118	20.118 (1.264)	148	218881			34.12- 94.12	61.73
20.118	20.118 (1.264)	111	155718			14.42- 74.42	43.92
114 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
21.916	21.916 (1.377)	180	265113	2.00000	2.148	70.00- 130.00	100.00
21.916	21.916 (1.377)	182	250182			64.21- 124.21	94.37

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
115 Hexachlorobutadiene					CAS #: 87-68-3		
22.054	22.054 (1.386)	225	187671	2.00000	2.083	70.00- 130.00	100.00
22.054	22.054 (1.386)	223	118444			0.00- 30.00	63.11
55 2,2,4-Trimethylpentane					CAS #: 540-84-1		
10.137	10.137 (1.073)	56	221629	2.00000	2.120	70.00- 130.00	100.00
10.137	10.137 (1.073)	99	32700			0.00- 30.00	14.75
10.137	10.137 (1.073)	41	158074			0.00- 30.00	71.32
22 3-Chloroprene					CAS #: 107-05-1		
6.902	6.902 (0.731)	76	168408	2.00000	1.599	70.00- 130.00	100.00
6.819	6.819 (0.722)	41	1685			0.00- 30.00	1.00
35 Vinyl Acetate					CAS #: 108-05-4		
8.561	8.561 (0.906)	43	209189	2.00000	2.477	70.00- 130.00	100.00
8.561	8.561 (0.906)	42	15790			0.00- 30.00	7.55
8.561	8.561 (0.906)	86	17553			0.00- 30.00	8.39
14 Isopentane					CAS #: 78-78-4		
5.188	5.188 (0.549)	57	74206	2.00000	1.846	70.00- 130.00	100.00
5.188	5.188 (0.549)	43	101666			0.00- 30.00	137.01
5.188	5.188 (0.549)	42	92520			0.00- 30.00	124.68
63 Methylcyclohexane					CAS #: 108-87-2		
11.243	11.243 (1.190)	83	214712	2.00000	2.072	70.00- 130.00	100.00
11.243	11.243 (1.190)	98	109922			0.00- 30.00	51.20
11.243	11.243 (1.190)	55	210162			0.00- 30.00	97.88
8 Butane					CAS #: 106-97-8		
3.529	3.529 (0.374)	58	20409	2.00000	2.044	70.00- 130.00	100.00
3.529	3.529 (0.374)	43	139589			0.00- 30.00	683.96
117 Naphthalene					CAS #: 91-20-3		
22.220	22.220 (1.396)	128	607735	2.00000	2.266	70.00- 130.00	100.00
22.220	22.220 (1.396)	127	79509			0.00- 30.00	13.08

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdy.i
Lab File ID: y022607.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: db
Method File: /chem/msdy.i/y-26feb.b/t14ll0226a.m
Misc Info: 2.0ppbv->2.0ppbv

Calibration Date: 26-FEB-2008
Calibration Time: 13:56
Client Smp ID: Level 7
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 Bromochloromethan	420808	252485	589131	338301	-19.61
60 1,4-Difluorobenze	1780063	1068038	2492088	1558540	-12.44
80 Chlorobenzene-d5	1282640	769584	1795696	1196703	-6.70

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 Bromochloromethan	9.45	9.12	9.78	9.45	0.00
60 1,4-Difluorobenze	10.72	10.39	11.05	10.72	0.00
80 Chlorobenzene-d5	15.92	15.59	16.25	15.92	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/msdy.i/y-26feb.b/y022607.d

Date : 26-FEB-2008 13:25

Client ID: Level 7

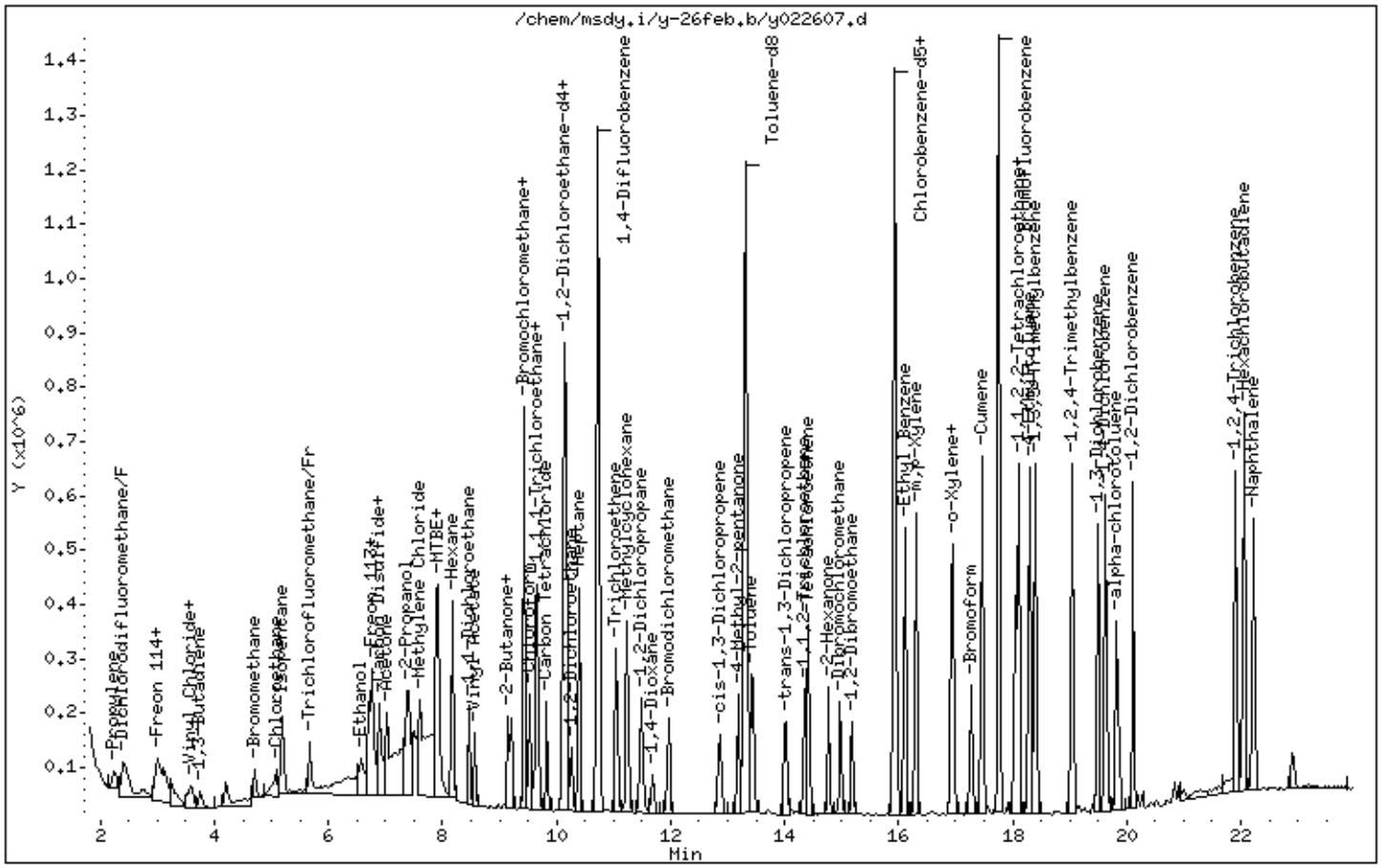
Instrument: msdy.i

Sample Info: 500ml #1576-300 2.0ppbv

Operator: db

Column phase: RTx-624

Column diameter: 0.32



Air Toxics Ltd.

AMBIENT AIR METHOD TO14/TO15

Data file : /chem/msdy.i/y-26feb.b/y022608.d
Lab Smp Id: ICAL Client Smp ID: Level 8
Inj Date : 26-FEB-2008 13:56
Operator : db Inst ID: msdy.i
Smp Info : 50ml #1576-287 5.0ppbv
Misc Info : 50ppbv->5.0ppbv
Comment :
Method : /chem/msdy.i/y-26feb.b/t14ll0226a.m
Meth Date : 04-Mar-2008 09:42 ejakob Quant Type: ISTD
Cal Date : 26-FEB-2008 13:56 Cal File: y022608.d
Als bottle: 1 Calibration Sample, Level: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT06ENSR.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				AMOUNTS				
				CAL-AMT	ON-COL			
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE		RATIO
==	====== ========	====	========	=======	=======	==========		=====
* 47 Bromochloromethane						CAS #: 74-97-5		
9.446	9.446 (1.000)	130	420808	10.0000		80.00- 120.00		100.00
9.446	9.446 (1.000)	128	325047			0.00- 30.00		77.24
9.418	9.418 (1.000)	49	770464			0.00- 30.00		183.09
* 60 1,4-Difluorobenzene						CAS #: 540-36-3		
10.718	10.718 (1.000)	114	1780063	10.0000		80.00- 120.00		100.00
10.718	10.718 (1.000)	88	306594			0.00- 47.22		17.22
* 80 Chlorobenzene-d5						CAS #: 3114-55-4		
15.916	15.916 (1.000)	117	1282640	10.0000		80.00- 120.00		100.00
15.916	15.916 (1.000)	82	769762			0.00- 30.00		60.01
$ 57 1,2-Dichloroethane-d4						CAS #: 17060-07-0		
10.165	10.165 (1.076)	65	603638	10.0000	9.866	80.00- 120.00		100.00
10.165	10.165 (1.076)	67	322611			0.00- 30.00		53.44
$ 70 Toluene-d8						CAS #: 2037-26-5		
13.317	13.317 (1.242)	98	1798788	10.0000	9.949	80.00- 120.00		100.00
13.317	13.317 (1.242)	70	197575			0.00- 40.98		10.98

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
$ 70 Toluene-d8 (continued)							
13.317	13.317 (1.242)	100	1189500			36.13- 96.13	66.13
$ 92 Bromofluorobenzene					CAS #: 460-00-4		
17.768	17.768 (1.116)	174	693568	10.0000	9.908	80.00- 120.00	100.00
17.768	17.768 (1.116)	95	1107240			129.64- 189.64	159.64
17.768	17.768 (1.116)	176	670938			66.74- 126.74	96.74
2 Propylene					CAS #: 115-07-1		
2.257	2.257 (0.239)	41	185308	5.00000	4.572	80.00- 120.00	100.00
2.257	2.257 (0.239)	42	118762			0.00- 30.00	64.09
2.257	2.257 (0.239)	39	132732			0.00- 30.00	71.63
4 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
2.423	2.423 (0.256)	85	548520	5.00000	4.350	80.00- 120.00	100.00
2.423	2.423 (0.256)	87	174793			1.87- 61.87	31.87
6 Freon 114					CAS #: 76-14-2		
3.031	3.031 (0.321)	135	367354	5.00000	4.776	80.00- 120.00	100.00
3.031	3.031 (0.321)	137	104265			0.00- 30.00	28.38
7 Chloromethane					CAS #: 74-87-3		
3.142	3.142 (0.333)	50	264698	5.00000	4.620	80.00- 120.00	100.00
3.142	3.142 (0.333)	52	75980			0.00- 30.00	28.70
9 Vinyl Chloride					CAS #: 75-01-4		
3.639	3.639 (0.385)	62	254018	5.00000	4.750	80.00- 120.00	100.00
3.639	3.639 (0.385)	64	77166			0.38- 60.38	30.38
10 1,3-Butadiene					CAS #: 106-99-0		
3.778	3.778 (0.400)	54	166106	5.00000	4.819	80.00- 120.00	100.00
3.778	3.778 (0.400)	39	164193			0.00- 30.00	98.85
12 Bromomethane					CAS #: 74-83-9		
4.718	4.718 (0.499)	94	118802	5.00000	4.587	80.00- 120.00	100.00
4.745	4.745 (0.502)	96	109698			62.34- 122.34	92.34
13 Chloroethane					CAS #: 75-00-3		
5.105	5.105 (0.540)	64	82395	5.00000	4.031	80.00- 120.00	100.00
5.105	5.105 (0.540)	66	25336			0.00- 30.00	30.75
5.105	5.105 (0.540)	49	20974			0.00- 30.00	25.46
16 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
5.686	5.686 (0.602)	101	508004	5.00000	4.788	80.00- 120.00	100.00
5.686	5.686 (0.602)	103	328730			34.71- 94.71	64.71

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
17 Ethanol					CAS #: 64-17-5		
6.543	6.543 (0.693)	45	104719	5.00000	3.595	80.00- 120.00	100.00
6.543	6.543 (0.693)	43	19134			0.00- 30.00	18.27
6.543	6.543 (0.693)	46	45997			0.00- 30.00	43.92
20 Freon 113					CAS #: 76-13-1		
6.764	6.764 (0.716)	151	328725	5.00000	5.205	80.00- 120.00	100.00
6.764	6.764 (0.716)	153	206558			32.84- 92.84	62.84
6.764	6.764 (0.716)	101	422159			0.00- 30.00	128.42
18 1,1-Dichloroethene					CAS #: 75-35-4		
6.736	6.736 (0.713)	98	138355	5.00000	5.299	80.00- 120.00	100.00
6.709	6.709 (0.710)	61	406372			0.00- 30.00	293.72
6.736	6.736 (0.713)	96	219147			0.00- 30.00	158.39
24 Acetone					CAS #: 67-64-1		
7.013	7.013 (0.742)	43	460973	5.00000	4.700	80.00- 120.00	100.00
7.013	7.013 (0.742)	58	153613			0.00- 30.00	33.32
28 2-Propanol					CAS #: 67-63-0		
7.372	7.372 (0.780)	45	399225	5.00000	4.307	80.00- 120.00	100.00
7.372	7.372 (0.780)	43	71705			0.00- 30.00	17.96
7.372	7.372 (0.780)	59	15513			0.00- 30.00	3.89
21 Carbon Disulfide					CAS #: 75-15-0		
6.930	6.930 (0.734)	76	704082	5.00000	5.374	80.00- 120.00	100.00
29 Methylene Chloride					CAS #: 75-09-2		
7.621	7.621 (0.807)	84	209407	5.00000	5.207	80.00- 120.00	100.00
7.621	7.621 (0.807)	49	342117			133.37- 193.37	163.37
7.621	7.621 (0.807)	51	104938			0.00- 30.00	50.11
32 MTBE					CAS #: 1634-04-4		
7.897	7.897 (0.836)	73	787628	5.00000	4.643	80.00- 120.00	100.00
7.897	7.897 (0.836)	57	244716			0.00- 30.00	31.07
7.897	7.897 (0.836)	41	249228			0.00- 30.00	31.64
33 trans-1,2-Dichloroethene					CAS #: 156-60-5		
7.897	7.897 (0.836)	98	171519	5.00000	5.325	80.00- 120.00	100.00
7.897	7.897 (0.836)	61	453500			0.00- 30.00	264.40
7.897	7.897 (0.836)	96	271261			0.00- 30.00	158.15
34 Hexane					CAS #: 110-54-3		
8.174	8.174 (0.865)	57	571215	5.00000	4.662	80.00- 120.00	100.00
8.174	8.174 (0.865)	43	371611			0.00- 30.00	65.06
8.174	8.174 (0.865)	86	86657			0.00- 30.00	15.17

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
38 1,1-Dichloroethane					CAS #: 75-34-3		
8.478	8.478 (0.898)	63	567666	5.00000	4.711	80.00- 120.00	100.00
8.478	8.478 (0.898)	65	173815			0.62- 60.62	30.62
44 2-Butanone					CAS #: 78-93-3		
9.197	9.197 (0.974)	72	148278	5.00000	4.624	80.00- 120.00	100.00
9.197	9.197 (0.974)	43	708607			447.89- 507.89	477.89
9.197	9.197 (0.974)	57	53691			0.00- 30.00	36.21
43 cis-1,2-Dichloroethene					CAS #: 156-59-2		
9.142	9.142 (0.968)	98	189593	5.00000	4.823	80.00- 120.00	100.00
9.142	9.142 (0.968)	61	448037			206.32- 266.32	236.32
9.142	9.142 (0.968)	96	302656			129.63- 189.63	159.63
45 Tetrahydrofuran					CAS #: 109-99-9		
9.418	9.418 (0.997)	42	450876	5.00000	4.852	80.00- 120.00	100.00
9.418	9.418 (0.997)	71	134277			0.00- 30.00	29.78
9.418	9.418 (0.997)	72	148784			0.00- 30.00	33.00
48 Chloroform					CAS #: 67-66-3		
9.529	9.529 (1.009)	83	551398	5.00000	4.806	80.00- 120.00	100.00
9.529	9.529 (1.009)	85	355331			34.44- 94.44	64.44
51 1,1,1-Trichloroethane					CAS #: 71-55-6		
9.667	9.667 (1.023)	97	560458	5.00000	4.274	80.00- 120.00	100.00
9.667	9.667 (1.023)	99	355185			33.37- 93.37	63.37
50 Cyclohexane					CAS #: 110-82-7		
9.639	9.639 (1.020)	84	457419	5.00000	4.724	80.00- 120.00	100.00
9.639	9.639 (1.020)	56	649899			0.00- 30.00	142.08
9.639	9.639 (1.020)	41	336966			0.00- 30.00	73.67
52 Carbon Tetrachloride					CAS #: 56-23-5		
9.833	9.833 (1.041)	119	483182	5.00000	5.200	80.00- 120.00	100.00
9.833	9.833 (1.041)	117	497101			72.88- 132.88	102.88
56 Benzene					CAS #: 71-43-2		
10.137	10.137 (0.946)	78	950865	5.00000	4.498	80.00- 120.00	100.00
10.137	10.137 (0.946)	77	220660			0.00- 30.00	23.21
58 1,2-Dichloroethane					CAS #: 107-06-2		
10.275	10.275 (0.959)	62	412827	5.00000	4.763	80.00- 120.00	100.00
10.275	10.275 (0.959)	64	131062			0.00- 30.00	31.75
59 Heptane					CAS #: 142-82-5		
10.386	10.386 (0.969)	43	742512	5.00000	4.941	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
59 Heptane (continued)							
10.386	10.386 (0.969)	57	381520			0.00- 30.00	51.38
10.386	10.386 (0.969)	100	117796			0.00- 30.00	15.86
61 Trichloroethene					CAS #: 79-01-6		
11.050	11.050 (1.031)	130	405179	5.00000	4.512	80.00- 120.00	100.00
11.050	11.050 (1.031)	95	404751			0.00- 30.00	99.89
11.050	11.050 (1.031)	97	266893			0.00- 30.00	65.87
64 1,2-Dichloropropane					CAS #: 78-87-5		
11.492	11.492 (1.072)	63	395085	5.00000	4.867	80.00- 120.00	100.00
11.492	11.492 (1.072)	62	286693			42.56- 102.56	72.56
11.492	11.492 (1.072)	41	224358			26.79- 86.79	56.79
65 1,4-Dioxane					CAS #: 123-91-1		
11.685	11.685 (1.090)	88	146718	5.00000	4.061	80.00- 120.00	100.00
11.685	11.685 (1.090)	58	122761			53.67- 113.67	83.67
11.658	11.658 (1.088)	57	40952			0.00- 30.00	27.91
66 Bromodichloromethane					CAS #: 75-27-4		
11.962	11.962 (1.116)	83	578761	5.00000	4.566	80.00- 120.00	100.00
11.962	11.962 (1.116)	85	374934			34.78- 94.78	64.78
67 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
12.874	12.874 (1.201)	75	500619	5.00000	5.007	80.00- 120.00	100.00
12.874	12.874 (1.201)	77	157881			1.54- 61.54	31.54
12.874	12.874 (1.201)	39	285545			27.04- 87.04	57.04
68 4-Methyl-2-pentanone					CAS #: 108-10-1		
13.179	13.179 (1.230)	43	767268	5.00000	4.608	80.00- 120.00	100.00
13.179	13.179 (1.230)	58	303565			0.00- 30.00	39.56
13.179	13.179 (1.230)	85	113108			0.00- 30.00	14.74
72 Toluene					CAS #: 108-88-3		
13.427	13.427 (1.253)	91	1112177	5.00000	4.843	80.00- 120.00	100.00
13.427	13.427 (1.253)	92	668633			30.12- 90.12	60.12
73 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
14.008	14.008 (0.880)	75	498592	5.00000	5.155	80.00- 120.00	100.00
14.008	14.008 (0.880)	77	161817			2.45- 62.45	32.45
14.008	14.008 (0.880)	39	275398			25.24- 85.24	55.24
74 1,1,2-Trichloroethane					CAS #: 79-00-5		
14.340	14.340 (0.901)	97	384131	5.00000	4.523	80.00- 120.00	100.00
14.340	14.340 (0.901)	99	243901			33.49- 93.49	63.49
14.340	14.340 (0.901)	83	326234			54.93- 114.93	84.93

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
75 Tetrachloroethene						CAS #: 127-18-4	
14.423	14.423 (0.906)	166	468336	5.00000	4.452	80.00- 120.00	100.00
14.423	14.423 (0.906)	129	367411			48.45- 108.45	78.45
14.423	14.423 (0.906)	131	355813			45.97- 105.97	75.97
76 2-Hexanone						CAS #: 591-78-6	
14.755	14.755 (0.927)	58	345860	5.00000	4.245	80.00- 120.00	100.00
14.755	14.755 (0.927)	43	631733			152.66- 212.66	182.66
14.755	14.755 (0.927)	100	65119			0.00- 30.00	18.83
77 Dibromochloromethane						CAS #: 124-48-1	
14.976	14.976 (0.941)	129	557228	5.00000	5.199	80.00- 120.00	100.00
14.976	14.976 (0.941)	127	435451			0.00- 30.00	78.15
14.976	14.976 (0.941)	208	26383			0.00- 30.00	4.73
78 1,2-Dibromoethane						CAS #: 106-93-4	
15.197	15.197 (0.955)	107	566539	5.00000	4.642	80.00- 120.00	100.00
15.197	15.197 (0.955)	109	528423			63.27- 123.27	93.27
81 Chlorobenzene						CAS #: 108-90-7	
15.971	15.971 (1.003)	112	947006	5.00000	4.869	80.00- 120.00	100.00
15.971	15.971 (1.003)	114	293571			1.00- 61.00	31.00
15.971	15.971 (1.003)	77	582326			31.49- 91.49	61.49
84 Ethyl Benzene						CAS #: 100-41-4	
16.109	16.109 (1.012)	106	506286	5.00000	4.941	80.00- 120.00	100.00
16.109	16.109 (1.012)	91	1604478			0.00- 30.00	316.91
85 m,p-Xylene						CAS #: 108-38-3	
16.303	16.303 (1.024)	106	639383	5.00000	4.845	80.00- 120.00	100.00
16.303	16.303 (1.024)	91	1288138			0.00- 30.00	201.47
86 o-Xylene						CAS #: 95-47-6	
16.911	16.911 (1.063)	106	601371	5.00000	4.866	80.00- 120.00	100.00
16.911	16.911 (1.063)	91	1292329			184.90- 244.90	214.90
87 Styrene						CAS #: 100-42-5	
16.966	16.966 (1.066)	104	961944	5.00000	5.043	80.00- 120.00	100.00
16.966	16.966 (1.066)	78	499491			21.93- 81.93	51.93
89 Bromoform						CAS #: 75-25-2	
17.271	17.271 (1.085)	173	463912	5.00000	5.229	80.00- 120.00	100.00
17.271	17.271 (1.085)	171	239383			21.60- 81.60	51.60
90 Cumene						CAS #: 98-82-8	
17.464	17.464 (1.097)	105	1756167	5.00000	4.921	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
90 Cumene (continued)							
17.464	17.464 (1.097)	120	473495			0.00- 56.96	26.96
94 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
18.045	18.045 (1.134)	83	838267	5.00000	4.582	80.00- 120.00	100.00
18.045	18.045 (1.134)	85	537099			34.07- 94.07	64.07
96 Propylbenzene					CAS #: 103-65-1		
18.100	18.100 (1.137)	91	2169769	5.00000	4.899	80.00- 120.00	100.00
18.100	18.100 (1.137)	120	492001			0.00- 30.00	22.68
97 4-Ethyltoluene					CAS #: 622-96-8		
18.294	18.294 (1.149)	105	1859906	5.00000	4.913	80.00- 120.00	100.00
18.294	18.294 (1.149)	120	553497			0.00- 59.76	29.76
98 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
18.404	18.404 (1.156)	105	1519816	5.00000	4.846	80.00- 120.00	100.00
18.404	18.404 (1.156)	120	765592			20.37- 80.37	50.37
102 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
19.040	19.040 (1.196)	105	1499407	5.00000	4.895	80.00- 120.00	100.00
19.040	19.040 (1.196)	120	704486			16.98- 76.98	46.98
105 1,3-Dichlorobenzene					CAS #: 541-73-1		
19.483	19.483 (1.224)	146	932583	5.00000	4.624	80.00- 120.00	100.00
19.483	19.483 (1.224)	148	593664			0.00- 30.00	63.66
19.483	19.483 (1.224)	111	407531			0.00- 30.00	43.70
106 1,4-Dichlorobenzene					CAS #: 106-46-7		
19.621	19.621 (1.233)	146	947249	5.00000	4.555	80.00- 120.00	100.00
19.621	19.621 (1.233)	148	590164			0.00- 30.00	62.30
19.621	19.621 (1.233)	111	403269			0.00- 30.00	42.57
109 alpha-chlorotoluene					CAS #: 100-44-7		
19.814	19.814 (1.245)	91	1095489	5.00000	4.970	80.00- 120.00	100.00
19.814	19.814 (1.245)	126	222445			0.00- 30.00	20.31
112 1,2-Dichlorobenzene					CAS #: 95-50-1		
20.119	20.119 (1.264)	146	880592	5.00000	4.428	80.00- 120.00	100.00
20.119	20.119 (1.264)	148	564642			34.12- 94.12	64.12
20.119	20.119 (1.264)	111	391142			14.42- 74.42	44.42
114 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
21.916	21.916 (1.377)	180	588518	5.00000	4.448	80.00- 120.00	100.00
21.916	21.916 (1.377)	182	554436			64.21- 124.21	94.21

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
115 Hexachlorobutadiene					CAS #: 87-68-3		
22.054	22.054 (1.386)	225	449993	5.00000	4.660	80.00- 120.00	100.00
22.054	22.054 (1.386)	223	287323			0.00- 30.00	63.85
55 2,2,4-Trimethylpentane					CAS #: 540-84-1		
10.137	10.137 (1.073)	56	600504	5.00000	4.617	80.00- 120.00	100.00
10.137	10.137 (1.073)	99	89546			0.00- 30.00	14.91
10.137	10.137 (1.073)	41	424028			0.00- 30.00	70.61
22 3-Chloroprene					CAS #: 107-05-1		
6.930	6.930 (0.734)	76	704082	5.00000	5.374	80.00- 120.00	100.00
6.930	6.930 (0.734)	41	4207			0.00- 30.00	0.60
35 Vinyl Acetate					CAS #: 108-05-4		
8.561	8.561 (0.906)	43	493421	5.00000	4.698	80.00- 120.00	100.00
8.561	8.561 (0.906)	42	36422			0.00- 30.00	7.38
8.561	8.561 (0.906)	86	40061			0.00- 30.00	8.12
14 Isopentane					CAS #: 78-78-4		
5.215	5.215 (0.552)	57	233783	5.00000	4.676	80.00- 120.00	100.00
5.215	5.215 (0.552)	43	348725			0.00- 30.00	149.17
5.215	5.215 (0.552)	42	295055			0.00- 30.00	126.21
63 Methylcyclohexane					CAS #: 108-87-2		
11.243	11.243 (1.190)	83	615072	5.00000	4.773	80.00- 120.00	100.00
11.243	11.243 (1.190)	98	298196			0.00- 30.00	48.48
11.243	11.243 (1.190)	55	582800			0.00- 30.00	94.75
8 Butane					CAS #: 106-97-8		
3.557	3.557 (0.377)	58	57608	5.00000	4.638	80.00- 120.00	100.00
3.557	3.557 (0.377)	43	374981			0.00- 30.00	650.92
117 Naphthalene					CAS #: 91-20-3		
22.220	22.220 (1.396)	128	1212529	5.00000	4.219	80.00- 120.00	100.00
22.220	22.220 (1.396)	127	155816			0.00- 30.00	12.85

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdy.i
Lab File ID: y022608.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: db
Method File: /chem/msdy.i/y-26feb.b/t14ll0226a.m
Misc Info: 50ppbv->5.0ppbv

Calibration Date: 26-FEB-2008
Calibration Time: 13:56
Client Smp ID: Level 8
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 Bromochloromethan	420808	252485	589131	420808	0.00
60 1,4-Difluorobenze	1780063	1068038	2492088	1780063	0.00
80 Chlorobenzene-d5	1282640	769584	1795696	1282640	0.00

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 Bromochloromethan	9.45	9.12	9.78	9.45	0.00
60 1,4-Difluorobenze	10.72	10.39	11.05	10.72	0.00
80 Chlorobenzene-d5	15.92	15.59	16.25	15.92	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/msdy.i/y-26feb.b/y022608.d

Date : 26-FEB-2008 13:56

Client ID: Level 8

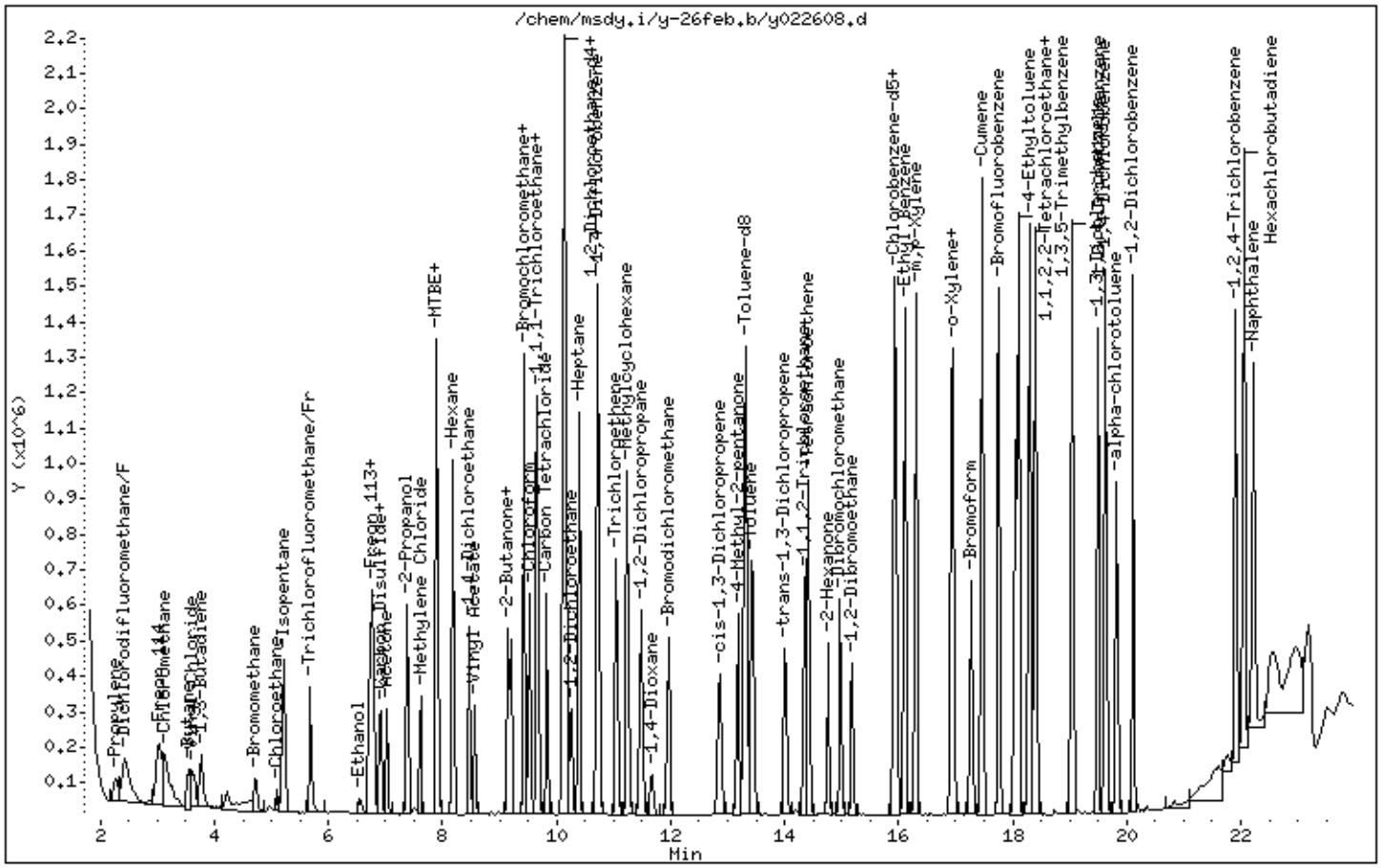
Instrument: msdy.i

Sample Info: 50ml #1576-287 5.0ppbv

Operator: db

Column phase: RTx-624

Column diameter: 0.32



Air Toxics Ltd.

AMBIENT AIR METHOD TO14/TO15

Data file : /chem/msdy.i/y-11mar.b/y031106.d
Lab Smp Id: ICAL Client Smp ID: Level 9
Inj Date : 11-MAR-2008 17:44
Operator : srs Inst ID: msdy.i
Smp Info : 100mL #1576-315
Misc Info : 50ppbv->10ppbv
Comment :
Method : /chem/msdy.i/y-11mar.b/t14ll0226b.m
Meth Date : 12-Mar-2008 14:35 ejakob Quant Type: ISTD
Cal Date : 11-MAR-2008 17:44 Cal File: y031106.d
Als bottle: 1 Calibration Sample, Level: 9
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: sp14b.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				AMOUNTS				
				CAL-AMT	ON-COL			
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE		RATIO
==	====== ========	====	========	=======	=======	==========		=====
* 47 Bromochloromethane						CAS #: 74-97-5		
9.446	9.446 (1.000)	130	424269	10.0000		80.00- 120.00		100.00
9.418	9.418 (1.000)	128	325865			46.81- 106.81		76.81
9.418	9.418 (1.000)	49	783603			154.69- 214.69		184.69
* 60 1,4-Difluorobenzene						CAS #: 540-36-3		
10.718	10.718 (1.000)	114	1740856	10.0000		80.00- 120.00		100.00
10.718	10.718 (1.000)	88	289283			0.00- 46.62		16.62
* 80 Chlorobenzene-d5						CAS #: 3114-55-4		
15.916	15.916 (1.000)	117	1235672	10.0000		80.00- 120.00		100.00
15.916	15.916 (1.000)	82	714887			27.85- 87.85		57.85
3 Freon 152A						CAS #: 75-37-6		
2.395	2.395 (0.254)	65	235500	10.0000	9.885	80.00- 120.00		100.00(H)
2.395	2.395 (0.254)	51	518554			190.19- 250.19		220.19
15 Vinyl Bromide						CAS #: 593-60-2		
5.520	5.520 (0.584)	106	260113	10.0000	10.979	80.00- 120.00		100.00
5.520	5.520 (0.584)	108	240847			62.59- 122.59		92.59

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
30 tert-Butyl Alcohol					CAS #: 75-65-0		
7.897	7.897 (0.836)	59	554617	10.0000	5.711	80.00- 120.00	100.00
7.897	7.897 (0.836)	41	247956			14.71- 74.71	44.71
7.897	7.897 (0.836)	57	61310			0.00- 41.05	11.05
39 2,4-Dimethylpentane					CAS #: 108-08-7		
8.782	8.782 (0.930)	57	1515837	10.0000	11.136	80.00- 120.00	100.00(H)
8.782	8.782 (0.930)	43	1845748			91.76- 151.76	121.76
8.782	8.782 (0.930)	85	373473			0.00- 54.64	24.64
42 Ethyl Acetate					CAS #: 141-78-6		
9.225	9.225 (0.977)	43	1755069	10.0000	11.426	80.00- 120.00	100.00(H)
9.225	9.225 (0.977)	70	154033			0.00- 38.78	8.78
9.225	9.225 (0.977)	61	225164			0.00- 42.83	12.83
46 2,3-Dimethylpentane					CAS #: 565-59-3		
9.695	9.695 (0.905)	71	897291	20.0000	22.561	80.00- 120.00	100.00(H)
9.695	9.695 (0.905)	56	2810191			283.19- 343.19	313.19
9.695	9.695 (0.905)	43	2296991			225.99- 285.99	255.99
69 Octane					CAS #: 111-65-9		
13.538	13.538 (1.263)	57	864302	10.0000	10.960	80.00- 120.00	100.00(H)
13.538	13.538 (1.263)	85	882768			72.14- 132.14	102.14
13.538	13.538 (1.263)	43	2293435			235.35- 295.35	265.35
82 Nonane					CAS #: 111-84-2		
16.248	16.248 (1.021)	43	2587898	10.0000	11.438	80.00- 120.00	100.00(H)
16.248	16.248 (1.021)	57	2176320			54.10- 114.10	84.10
16.248	16.248 (1.021)	85	763412			0.00- 59.50	29.50
88 alpha-Pinene					CAS #: 80-53-8		
17.381	17.381 (1.092)	93	2683429	10.0000	11.596	80.00- 120.00	100.00(H)
17.381	17.381 (1.092)	121	302614			0.00- 41.28	11.28
17.381	17.381 (1.092)	92	983274			6.64- 66.64	36.64
93 2-Chlorotoluene					CAS #: 95-49-8		
18.266	18.266 (1.148)	126	970372	10.0000	10.783	80.00- 120.00	100.00
18.266	18.266 (1.148)	91	3003392			279.51- 339.51	309.51
18.266	18.266 (1.148)	65	297193			0.63- 60.63	30.63
95 Decane					CAS #: 124-18-5		
18.321	18.321 (1.151)	57	2892851	10.0000	11.314	80.00- 120.00	100.00(H)
18.321	18.321 (1.151)	71	1000304			4.58- 64.58	34.58
18.321	18.321 (1.151)	142	137220			0.00- 34.74	4.74
101 sec-Butylbenzene					CAS #: 135-98-8		
19.289	19.289 (1.212)	105	4982760	10.0000	11.053	80.00- 120.00	100.00(H)

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
101 sec-Butylbenzene (continued)							
19.289	19.289 (1.212)	134	1031878			0.00- 50.71	20.71
19.289	19.289 (1.212)	91	772778			0.00- 45.51	15.51
104 1,2,3-Trimethylbenzene					CAS #: 526-73-8		
19.676	19.676 (1.236)	120	1360889	10.0000	11.166	80.00- 120.00	100.00(H)
19.648	19.648 (1.235)	105	3191547			204.52- 264.52	234.52
19.648	19.648 (1.235)	77	386422			0.00- 58.39	28.39
108 Butylbenzene					CAS #: 104-51-8		
20.036	20.036 (1.259)	134	1103799	10.0000	11.362	80.00- 120.00	100.00(H)
20.036	20.036 (1.259)	91	4092528			340.77- 400.77	370.77
20.036	20.036 (1.259)	92	2264924			175.19- 235.19	205.19

QC Flag Legend

H - Operator selected an alternate compound hit.

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdy.i
Lab File ID: y031106.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: srs
Method File: /chem/msdy.i/y-11mar.b/t14ll0226b.m
Misc Info: 50ppbv->10ppbv

Calibration Date: 11-MAR-2008
Calibration Time: 17:44
Client Smp ID: Level 9
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 Bromochloromethan	424269	254561	593977	424269	0.00
60 1,4-Difluorobenze	1740856	1044514	2437198	1740856	0.00
80 Chlorobenzene-d5	1235672	741403	1729941	1235672	0.00

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 Bromochloromethan	9.45	9.12	9.78	9.45	0.00
60 1,4-Difluorobenze	10.72	10.39	11.05	10.72	0.00
80 Chlorobenzene-d5	15.92	15.59	16.25	15.92	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/msdy.i/y-11mar.b/y031106.d

Date : 11-MAR-2008 17:44

Client ID: Level 9

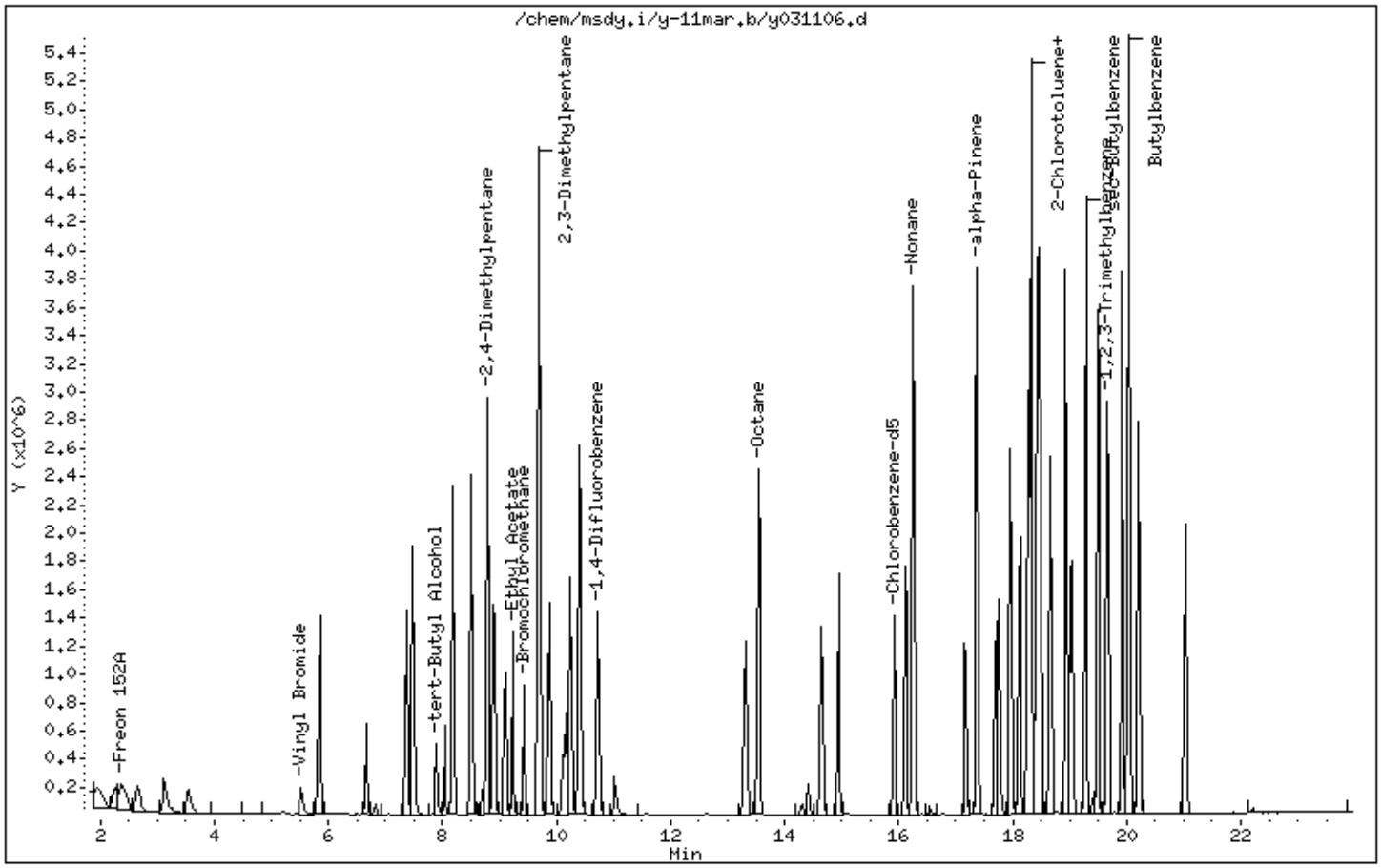
Instrument: msdy.i

Sample Info: 100mL #1576-315

Operator: srs

Column phase: RTx-624

Column diameter: 0.32



Air Toxics Ltd.

AMBIENT AIR METHOD TO14/TO15

Data file : /chem/msdy.i/y-26feb.b/y022609.d
Lab Smp Id: ICAL Client Smp ID: Level 9
Inj Date : 26-FEB-2008 14:47
Operator : db Inst ID: msdy.i
Smp Info : 100ml #1576-287 10ppbv
Misc Info : 50ppbv->10ppbv
Comment :
Method : /chem/msdy.i/y-26feb.b/t14ll0226a.m
Meth Date : 04-Mar-2008 09:42 ejakob Quant Type: ISTD
Cal Date : 26-FEB-2008 14:47 Cal File: y022609.d
Als bottle: 1 Calibration Sample, Level: 9
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT06ENSR.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				AMOUNTS				
				CAL-AMT	ON-COL			
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE		RATIO
==	====== ========	====	========	=======	=======	==========		=====
* 47 Bromochloromethane						CAS #: 74-97-5		
9.446	9.446 (1.000)	130	397051	10.0000		70.00- 130.00		100.00
9.446	9.446 (1.000)	128	304039			46.57- 106.57		76.57
9.418	9.418 (1.000)	49	730346			153.94- 213.94		183.94
* 60 1,4-Difluorobenzene						CAS #: 540-36-3		
10.718	10.718 (1.000)	114	1740514	10.0000		70.00- 130.00		100.00
10.718	10.718 (1.000)	88	301544			0.00- 47.32		17.32
* 80 Chlorobenzene-d5						CAS #: 3114-55-4		
15.916	15.916 (1.000)	117	1261787	10.0000		70.00- 130.00		100.00
15.916	15.916 (1.000)	82	737184			28.42- 88.42		58.42
$ 57 1,2-Dichloroethane-d4						CAS #: 17060-07-0		
10.165	10.165 (1.076)	65	582476	10.0000	10.072	70.00- 130.00		100.00
10.165	10.165 (1.076)	67	319992			24.94- 84.94		54.94
$ 70 Toluene-d8						CAS #: 2037-26-5		
13.317	13.317 (1.242)	98	1712277	10.0000	9.747	70.00- 130.00		100.00
13.317	13.317 (1.242)	70	187820			0.00- 40.97		10.97

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
$ 70 Toluene-d8 (continued)							
13.317	13.317 (1.242)	100	1158385			37.65- 97.65	67.65
$ 92 Bromofluorobenzene					CAS #: 460-00-4		
17.768	17.768 (1.116)	174	665218	10.0000	9.726	70.00- 130.00	100.00
17.768	17.768 (1.116)	95	1067537			130.48- 190.48	160.48
17.768	17.768 (1.116)	176	636184			65.64- 125.64	95.64
2 Propylene					CAS #: 115-07-1		
2.257	2.257 (0.239)	41	366539	10.0000	9.686	70.00- 130.00	100.00
2.257	2.257 (0.239)	42	251043			38.49- 98.49	68.49
2.257	2.257 (0.239)	39	259124			40.69- 100.69	70.69
4 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
2.423	2.423 (0.256)	85	1079907	10.0000	9.248	70.00- 130.00	100.00
2.423	2.423 (0.256)	87	351852			2.58- 62.58	32.58
6 Freon 114					CAS #: 76-14-2		
3.031	3.031 (0.321)	135	701533	10.0000	9.732	70.00- 130.00	100.00
3.031	3.031 (0.321)	137	216689			0.89- 60.89	30.89
7 Chloromethane					CAS #: 74-87-3		
3.142	3.142 (0.333)	50	515237	10.0000	9.644	70.00- 130.00	100.00
3.142	3.142 (0.333)	52	159451			0.95- 60.95	30.95
9 Vinyl Chloride					CAS #: 75-01-4		
3.612	3.612 (0.382)	62	502455	10.0000	9.968	70.00- 130.00	100.00
3.612	3.612 (0.382)	64	159131			1.67- 61.67	31.67
10 1,3-Butadiene					CAS #: 106-99-0		
3.778	3.778 (0.400)	54	341150	10.0000	10.362	70.00- 130.00	100.00
3.778	3.778 (0.400)	39	326317			65.65- 125.65	95.65
12 Bromomethane					CAS #: 74-83-9		
4.718	4.718 (0.499)	94	252766	10.0000	10.255	70.00- 130.00	100.00
4.718	4.718 (0.499)	96	234251			62.68- 122.68	92.68
13 Chloroethane					CAS #: 75-00-3		
5.105	5.105 (0.540)	64	176666	10.0000	9.357	70.00- 130.00	100.00
5.105	5.105 (0.540)	66	55735			1.55- 61.55	31.55
5.105	5.105 (0.540)	49	48666			0.00- 57.55	27.55
16 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
5.686	5.686 (0.602)	101	1033279	10.0000	10.256	70.00- 130.00	100.00
5.686	5.686 (0.602)	103	675921			35.42- 95.42	65.42

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
17 Ethanol					CAS #: 64-17-5		
6.543	6.543 (0.693)	45	246127	10.0000	9.195	70.00- 130.00	100.00
6.543	6.543 (0.693)	43	45424			0.00- 48.46	18.46
6.543	6.543 (0.693)	46	98591			10.06- 70.06	40.06
20 Freon 113					CAS #: 76-13-1		
6.764	6.764 (0.716)	151	676885	10.0000	11.059	70.00- 130.00	100.00
6.764	6.764 (0.716)	153	425274			32.83- 92.83	62.83
6.764	6.764 (0.716)	101	868240			98.27- 158.27	128.27
18 1,1-Dichloroethene					CAS #: 75-35-4		
6.736	6.736 (0.713)	98	279644	10.0000	10.980	70.00- 130.00	100.00
6.709	6.709 (0.710)	61	828036			266.10- 326.10	296.10
6.709	6.709 (0.710)	96	442762			128.33- 188.33	158.33
24 Acetone					CAS #: 67-64-1		
7.013	7.013 (0.742)	43	870197	10.0000	9.545	70.00- 130.00	100.00
7.013	7.013 (0.742)	58	300987			4.59- 64.59	34.59
28 2-Propanol					CAS #: 67-63-0		
7.372	7.372 (0.780)	45	1087623	10.0000	11.723	70.00- 130.00	100.00
7.372	7.372 (0.780)	43	191563			0.00- 47.61	17.61
7.372	7.372 (0.780)	59	43356			0.00- 33.99	3.99
21 Carbon Disulfide					CAS #: 75-15-0		
6.902	6.902 (0.731)	76	1442631	10.0000	11.202	70.00- 130.00	100.00
29 Methylene Chloride					CAS #: 75-09-2		
7.621	7.621 (0.807)	84	413519	10.0000	10.658	70.00- 130.00	100.00
7.593	7.593 (0.804)	49	688702			136.55- 196.55	166.55
7.593	7.593 (0.804)	51	205531			19.70- 79.70	49.70
32 MTBE					CAS #: 1634-04-4		
7.897	7.897 (0.836)	73	1591789	10.0000	9.956	70.00- 130.00	100.00
7.897	7.897 (0.836)	57	572186			5.95- 65.95	35.95
7.897	7.897 (0.836)	41	683567			12.94- 72.94	42.94
33 trans-1,2-Dichloroethene					CAS #: 156-60-5		
7.897	7.897 (0.836)	98	351745	10.0000	11.136	70.00- 130.00	100.00
7.897	7.897 (0.836)	61	922896			232.38- 292.38	262.38
7.897	7.897 (0.836)	96	537041			122.68- 182.68	152.68
34 Hexane					CAS #: 110-54-3		
8.174	8.174 (0.865)	57	1167373	10.0000	10.073	70.00- 130.00	100.00
8.174	8.174 (0.865)	43	753894			34.58- 94.58	64.58
8.174	8.174 (0.865)	86	182256			0.00- 45.61	15.61

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
38 1,1-Dichloroethane					CAS #: 75-34-3		
8.478	8.478 (0.898)	63	1145385	10.0000	10.056	70.00- 130.00	100.00
8.478	8.478 (0.898)	65	352159			0.75- 60.75	30.75
44 2-Butanone					CAS #: 78-93-3		
9.197	9.197 (0.974)	72	315540	10.0000	10.318	70.00- 130.00	100.00
9.197	9.197 (0.974)	43	1492849			443.11- 503.11	473.11
9.197	9.197 (0.974)	57	111362			5.29- 65.29	35.29
43 cis-1,2-Dichloroethene					CAS #: 156-59-2		
9.142	9.142 (0.968)	98	376415	10.0000	10.111	70.00- 130.00	100.00
9.142	9.142 (0.968)	61	899156			208.87- 268.87	238.87
9.142	9.142 (0.968)	96	593893			127.78- 187.78	157.78
45 Tetrahydrofuran					CAS #: 109-99-9		
9.418	9.418 (0.997)	42	901558	10.0000	10.211	70.00- 130.00	100.00
9.418	9.418 (0.997)	71	277515			0.78- 60.78	30.78
9.418	9.418 (0.997)	72	309947			4.38- 64.38	34.38
48 Chloroform					CAS #: 67-66-3		
9.529	9.529 (1.009)	83	1106530	10.0000	10.166	70.00- 130.00	100.00
9.529	9.529 (1.009)	85	721704			35.22- 95.22	65.22
51 1,1,1-Trichloroethane					CAS #: 71-55-6		
9.667	9.667 (1.023)	97	1138893	10.0000	9.353	70.00- 130.00	100.00
9.667	9.667 (1.023)	99	720900			33.30- 93.30	63.30
50 Cyclohexane					CAS #: 110-82-7		
9.667	9.667 (1.023)	84	927668	10.0000	10.116	70.00- 130.00	100.00
9.639	9.639 (1.020)	56	1325496			112.88- 172.88	142.88
9.639	9.639 (1.020)	41	671269			42.36- 102.36	72.36
52 Carbon Tetrachloride					CAS #: 56-23-5		
9.833	9.833 (1.041)	119	974499	10.0000	10.872	70.00- 130.00	100.00
9.833	9.833 (1.041)	117	1014305			74.08- 134.08	104.08
56 Benzene					CAS #: 71-43-2		
10.137	10.137 (0.946)	78	1908979	10.0000	9.415	70.00- 130.00	100.00
10.137	10.137 (0.946)	77	441016			0.00- 53.10	23.10
58 1,2-Dichloroethane					CAS #: 107-06-2		
10.275	10.275 (0.959)	62	852973	10.0000	10.049	70.00- 130.00	100.00
10.275	10.275 (0.959)	64	265866			1.17- 61.17	31.17
59 Heptane					CAS #: 142-82-5		
10.386	10.386 (0.969)	43	1476826	10.0000	10.038	70.00- 130.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
59 Heptane (continued)							
10.386	10.386 (0.969)	57	772979			22.34- 82.34	52.34
10.386	10.386 (0.969)	100	240716			0.00- 46.30	16.30
61 Trichloroethene					CAS #: 79-01-6		
11.050	11.050 (1.031)	130	802864	10.0000	9.303	70.00- 130.00	100.00
11.050	11.050 (1.031)	95	805252			70.30- 130.30	100.30
11.050	11.050 (1.031)	97	522601			35.09- 95.09	65.09
64 1,2-Dichloropropane					CAS #: 78-87-5		
11.492	11.492 (1.072)	63	788421	10.0000	9.950	70.00- 130.00	100.00
11.492	11.492 (1.072)	62	574569			42.88- 102.88	72.88
11.492	11.492 (1.072)	41	445735			26.54- 86.54	56.54
65 1,4-Dioxane					CAS #: 123-91-1		
11.685	11.685 (1.090)	88	425991	10.0000	11.470	70.00- 130.00	100.00
11.658	11.658 (1.088)	58	348854			51.89- 111.89	81.89
11.658	11.658 (1.088)	57	113285			0.00- 56.59	26.59
66 Bromodichloromethane					CAS #: 75-27-4		
11.962	11.962 (1.116)	83	1201786	10.0000	9.756	70.00- 130.00	100.00
11.962	11.962 (1.116)	85	757602			33.04- 93.04	63.04
67 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
12.874	12.874 (1.201)	75	1034786	10.0000	10.432	70.00- 130.00	100.00
12.874	12.874 (1.201)	77	327392			1.64- 61.64	31.64
12.874	12.874 (1.201)	39	574356			25.50- 85.50	55.50
68 4-Methyl-2-pentanone					CAS #: 108-10-1		
13.179	13.179 (1.230)	43	1819735	10.0000	10.857	70.00- 130.00	100.00
13.179	13.179 (1.230)	58	722539			9.71- 69.71	39.71
13.179	13.179 (1.230)	85	275800			0.00- 45.16	15.16
72 Toluene					CAS #: 108-88-3		
13.455	13.455 (1.255)	91	2221258	10.0000	9.918	70.00- 130.00	100.00
13.455	13.455 (1.255)	92	1361322			31.29- 91.29	61.29
73 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
14.036	14.036 (0.882)	75	1047077	10.0000	10.736	70.00- 130.00	100.00
14.008	14.008 (0.880)	77	339436			2.42- 62.42	32.42
14.008	14.008 (0.880)	39	575622			24.97- 84.97	54.97
74 1,1,2-Trichloroethane					CAS #: 79-00-5		
14.340	14.340 (0.901)	97	770112	10.0000	9.364	70.00- 130.00	100.00
14.340	14.340 (0.901)	99	474910			31.67- 91.67	61.67
14.340	14.340 (0.901)	83	659165			55.59- 115.59	85.59

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
75 Tetrachloroethene					CAS #: 127-18-4		
14.423	14.423 (0.906)	166	931844	10.0000	9.187	70.00- 130.00	100.00
14.423	14.423 (0.906)	129	752581			50.76- 110.76	80.76
14.423	14.423 (0.906)	131	723084			47.60- 107.60	77.60
76 2-Hexanone					CAS #: 591-78-6		
14.755	14.755 (0.927)	58	972821	10.0000	11.522	70.00- 130.00	100.00
14.755	14.755 (0.927)	43	1755432			150.45- 210.45	180.45
14.782	14.782 (0.929)	100	183969			0.00- 48.91	18.91
77 Dibromochloromethane					CAS #: 124-48-1		
14.976	14.976 (0.941)	129	1150816	10.0000	10.719	70.00- 130.00	100.00
14.976	14.976 (0.941)	127	909301			49.01- 109.01	79.01
15.003	15.003 (0.943)	208	56342			0.00- 34.90	4.90
78 1,2-Dibromoethane					CAS #: 106-93-4		
15.197	15.197 (0.955)	107	1159694	10.0000	9.725	70.00- 130.00	100.00
15.197	15.197 (0.955)	109	1093775			64.32- 124.32	94.32
81 Chlorobenzene					CAS #: 108-90-7		
15.971	15.971 (1.003)	112	1907357	10.0000	9.977	70.00- 130.00	100.00
15.971	15.971 (1.003)	114	605015			1.72- 61.72	31.72
15.971	15.971 (1.003)	77	1145106			30.04- 90.04	60.04
84 Ethyl Benzene					CAS #: 100-41-4		
16.109	16.109 (1.012)	106	1018152	10.0000	10.076	70.00- 130.00	100.00
16.109	16.109 (1.012)	91	3262785			290.46- 350.46	320.46
85 m,p-Xylene					CAS #: 108-38-3		
16.303	16.303 (1.024)	106	1291367	10.0000	9.960	70.00- 130.00	100.00
16.303	16.303 (1.024)	91	2664816			176.36- 236.36	206.36
86 o-Xylene					CAS #: 95-47-6		
16.911	16.911 (1.063)	106	1239289	10.0000	10.144	70.00- 130.00	100.00
16.911	16.911 (1.063)	91	2625840			181.88- 241.88	211.88
87 Styrene					CAS #: 100-42-5		
16.966	16.966 (1.066)	104	1990586	10.0000	10.449	70.00- 130.00	100.00
16.966	16.966 (1.066)	78	1020596			21.27- 81.27	51.27
89 Bromoform					CAS #: 75-25-2		
17.271	17.271 (1.085)	173	996246	10.0000	11.101	70.00- 130.00	100.00
17.271	17.271 (1.085)	171	509329			21.12- 81.12	51.12
90 Cumene					CAS #: 98-82-8		
17.464	17.464 (1.097)	105	3551009	10.0000	10.086	70.00- 130.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
90 Cumene (continued)							
17.464	17.464 (1.097)	120	968540			0.00- 57.28	27.28
94 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
18.045	18.045 (1.134)	83	1706417	10.0000	9.581	70.00- 130.00	100.00
18.045	18.045 (1.134)	85	1109768			35.03- 95.03	65.03
96 Propylbenzene					CAS #: 103-65-1		
18.100	18.100 (1.137)	91	4381803	10.0000	10.042	70.00- 130.00	100.00
18.100	18.100 (1.137)	120	993341			0.00- 52.67	22.67
97 4-Ethyltoluene					CAS #: 622-96-8		
18.294	18.294 (1.149)	105	3777211	10.0000	10.107	70.00- 130.00	100.00
18.294	18.294 (1.149)	120	1131189			0.00- 59.95	29.95
98 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
18.404	18.404 (1.156)	105	3136390	10.0000	10.124	70.00- 130.00	100.00
18.404	18.404 (1.156)	120	1564345			19.88- 79.88	49.88
102 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
19.040	19.040 (1.196)	105	3043430	10.0000	10.074	70.00- 130.00	100.00
19.040	19.040 (1.196)	120	1427368			16.90- 76.90	46.90
105 1,3-Dichlorobenzene					CAS #: 541-73-1		
19.483	19.483 (1.224)	146	1909208	10.0000	9.696	70.00- 130.00	100.00
19.483	19.483 (1.224)	148	1207630			33.25- 93.25	63.25
19.483	19.483 (1.224)	111	822449			13.08- 73.08	43.08
106 1,4-Dichlorobenzene					CAS #: 106-46-7		
19.621	19.621 (1.233)	146	1931796	10.0000	9.549	70.00- 130.00	100.00
19.621	19.621 (1.233)	148	1218470			33.07- 93.07	63.07
19.621	19.621 (1.233)	111	814880			12.18- 72.18	42.18
109 alpha-chlorotoluene					CAS #: 100-44-7		
19.814	19.814 (1.245)	91	2541176	10.0000	11.330	70.00- 130.00	100.00
19.814	19.814 (1.245)	126	511633			0.00- 50.13	20.13
112 1,2-Dichlorobenzene					CAS #: 95-50-1		
20.119	20.119 (1.264)	146	1809864	10.0000	9.391	70.00- 130.00	100.00
20.119	20.119 (1.264)	148	1159820			34.08- 94.08	64.08
20.119	20.119 (1.264)	111	831358			15.93- 75.93	45.93
114 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
21.916	21.916 (1.377)	180	1345391	10.0000	10.250	70.00- 130.00	100.00
21.916	21.916 (1.377)	182	1279002			65.07- 125.07	95.07

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
115 Hexachlorobutadiene					CAS #: 87-68-3		
22.054	22.054 (1.386)	225	974869	10.0000	10.196	70.00- 130.00	100.00
22.054	22.054 (1.386)	223	611032			32.68- 92.68	62.68
55 2,2,4-Trimethylpentane					CAS #: 540-84-1		
10.137	10.137 (1.073)	56	1224157	10.0000	9.982	70.00- 130.00	100.00
10.137	10.137 (1.073)	99	183292			0.00- 44.97	14.97
10.137	10.137 (1.073)	41	872532			41.28- 101.28	71.28
22 3-Chloroprene					CAS #: 107-05-1		
6.902	6.902 (0.731)	76	1442631	10.0000	11.202	70.00- 130.00	100.00
6.874	6.874 (0.728)	41	2101			0.00- 30.15	0.15
35 Vinyl Acetate					CAS #: 108-05-4		
8.561	8.561 (0.906)	43	1128591	10.0000	11.006	70.00- 130.00	100.00
8.561	8.561 (0.906)	42	85035			0.00- 37.53	7.53
8.561	8.561 (0.906)	86	100298			0.00- 38.89	8.89
14 Isopentane					CAS #: 78-78-4		
5.215	5.215 (0.552)	57	480677	10.0000	10.142	70.00- 130.00	100.00
5.215	5.215 (0.552)	43	706994			117.08- 177.08	147.08
5.215	5.215 (0.552)	42	613345			97.60- 157.60	127.60
63 Methylcyclohexane					CAS #: 108-87-2		
11.243	11.243 (1.190)	83	1222288	10.0000	10.039	70.00- 130.00	100.00
11.243	11.243 (1.190)	98	603788			19.40- 79.40	49.40
11.243	11.243 (1.190)	55	1176971			66.29- 126.29	96.29
8 Butane					CAS #: 106-97-8		
3.557	3.557 (0.376)	58	114139	10.0000	9.804	70.00- 130.00	100.00
3.557	3.557 (0.376)	43	784788			657.57- 717.57	687.57
117 Naphthalene					CAS #: 91-20-3		
22.220	22.220 (1.396)	128	3093845	10.0000	10.690	70.00- 130.00	100.00
22.220	22.220 (1.396)	127	391832			0.00- 42.66	12.66

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdy.i
Lab File ID: y022609.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: db
Method File: /chem/msdy.i/y-26feb.b/t14ll0226a.m
Misc Info: 50ppbv->10ppbv

Calibration Date: 26-FEB-2008
Calibration Time: 13:56
Client Smp ID: Level 9
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 Bromochloromethan	420808	252485	589131	397051	-5.65
60 1,4-Difluorobenze	1780063	1068038	2492088	1740514	-2.22
80 Chlorobenzene-d5	1282640	769584	1795696	1261787	-1.63

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 Bromochloromethan	9.45	9.12	9.78	9.45	0.00
60 1,4-Difluorobenze	10.72	10.39	11.05	10.72	0.00
80 Chlorobenzene-d5	15.92	15.59	16.25	15.92	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/msdy.i/y-26feb.b/y022609.d

Date : 26-FEB-2008 14:47

Client ID: Level 9

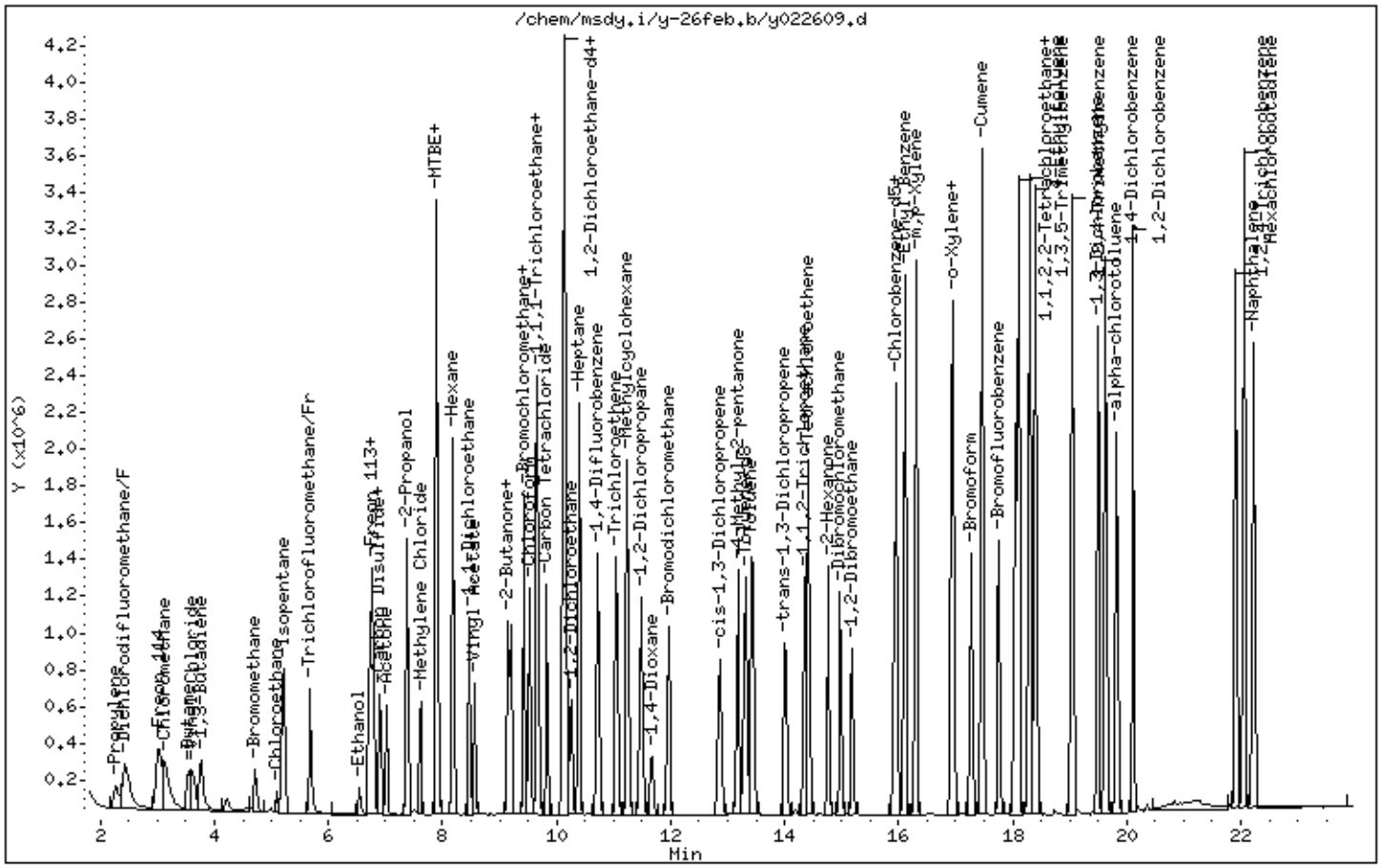
Instrument: msdy.i

Sample Info: 100ml #1576-287 10ppbv

Operator: db

Column phase: RTx-624

Column diameter: 0.32



Air Toxics Ltd.

AMBIENT AIR METHOD TO14/TO15

Data file : /chem/msdy.i/y-26feb.b/y022610.d
Lab Smp Id: ICAL Client Smp ID: Level 10
Inj Date : 26-FEB-2008 15:28
Operator : db Inst ID: msdy.i
Smp Info : 200ml #1576-287 20ppbv
Misc Info : 50ppbv->20ppbv
Comment :
Method : /chem/msdy.i/y-26feb.b/t14ll0226a.m
Meth Date : 04-Mar-2008 09:42 ejakob Quant Type: ISTD
Cal Date : 26-FEB-2008 15:28 Cal File: y022610.d
Als bottle: 1 Calibration Sample, Level: 10
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT06ENSR.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				AMOUNTS				
				CAL-AMT	ON-COL			
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE		RATIO
==	====== ========	====	========	=======	=======	==========		=====
* 47 Bromochloromethane						CAS #: 74-97-5		
9.418	9.418 (1.000)	130	376513	10.0000		70.00- 130.00		100.00
9.418	9.418 (1.000)	128	292416			46.57- 106.57		77.66
9.418	9.418 (1.000)	49	697669			153.94- 213.94		185.30
* 60 1,4-Difluorobenzene						CAS #: 540-36-3		
10.718	10.718 (1.000)	114	1657365	10.0000		70.00- 130.00		100.00
10.718	10.718 (1.000)	88	282122			0.00- 47.32		17.02
* 80 Chlorobenzene-d5						CAS #: 3114-55-4		
15.916	15.916 (1.000)	117	1184559	10.0000		70.00- 130.00		100.00
15.916	15.916 (1.000)	82	697322			28.42- 88.42		58.87
$ 57 1,2-Dichloroethane-d4						CAS #: 17060-07-0		
10.165	10.165 (1.079)	65	559924	10.0000	10.174	70.00- 130.00		100.00
10.165	10.165 (1.079)	67	325671			24.94- 84.94		58.16
$ 70 Toluene-d8						CAS #: 2037-26-5		
13.317	13.317 (1.242)	98	1653792	10.0000	9.905	70.00- 130.00		100.00
13.317	13.317 (1.242)	70	176227			0.00- 40.97		10.66

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
$ 70 Toluene-d8 (continued)							
13.317	13.317 (1.242)	100	1101826			37.65- 97.65	66.62
$ 92 Bromofluorobenzene					CAS #: 460-00-4		
17.768	17.768 (1.116)	174	638426	10.0000	9.952	70.00- 130.00	100.00
17.768	17.768 (1.116)	95	1007792			130.48- 190.48	157.86
17.768	17.768 (1.116)	176	618028			65.64- 125.64	96.80
2 Propylene					CAS #: 115-07-1		
2.257	2.257 (0.240)	41	678032	20.0000	19.106	70.00- 130.00	100.00
2.257	2.257 (0.240)	42	455915			38.49- 98.49	67.24
2.257	2.257 (0.240)	39	471356			40.69- 100.69	69.52
4 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
2.423	2.423 (0.257)	85	2003750	20.0000	18.387	70.00- 130.00	100.00
2.423	2.423 (0.257)	87	634527			2.58- 62.58	31.67
6 Freon 114					CAS #: 76-14-2		
3.031	3.031 (0.322)	135	1298012	20.0000	19.150	70.00- 130.00	100.00
3.031	3.031 (0.322)	137	402554			0.89- 60.89	31.01
7 Chloromethane					CAS #: 74-87-3		
3.142	3.142 (0.334)	50	1016473	20.0000	20.050	70.00- 130.00	100.00
3.142	3.142 (0.334)	52	291688			0.95- 60.95	28.70
9 Vinyl Chloride					CAS #: 75-01-4		
3.612	3.612 (0.383)	62	921909	20.0000	19.426	70.00- 130.00	100.00
3.612	3.612 (0.383)	64	285064			1.67- 61.67	30.92
10 1,3-Butadiene					CAS #: 106-99-0		
3.750	3.750 (0.398)	54	649482	20.0000	20.638	70.00- 130.00	100.00
3.750	3.750 (0.398)	39	649368			65.65- 125.65	99.98
12 Bromomethane					CAS #: 74-83-9		
4.718	4.718 (0.501)	94	433308	20.0000	18.814	70.00- 130.00	100.00
4.718	4.718 (0.501)	96	409793			62.68- 122.68	94.57
13 Chloroethane					CAS #: 75-00-3		
5.077	5.077 (0.539)	64	370715	20.0000	20.561	70.00- 130.00	100.00
5.077	5.077 (0.539)	66	107732			1.55- 61.55	29.06
5.077	5.077 (0.539)	49	98790			0.00- 57.55	26.65
16 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
5.685	5.685 (0.604)	101	1889273	20.0000	19.812	70.00- 130.00	100.00
5.685	5.685 (0.604)	103	1232372			35.42- 95.42	65.23

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
17 Ethanol					CAS #: 64-17-5		
6.543	6.543 (0.695)	45	429009	20.0000	17.443	70.00- 130.00	100.00
6.543	6.543 (0.695)	43	83353			0.00- 48.46	19.43
6.543	6.543 (0.695)	46	182511			10.06- 70.06	42.54
20 Freon 113					CAS #: 76-13-1		
6.764	6.764 (0.718)	151	1302968	20.0000	22.000	70.00- 130.00	100.00
6.764	6.764 (0.718)	153	832849			32.83- 92.83	63.92
6.764	6.764 (0.718)	101	1677205			98.27- 158.27	128.72
18 1,1-Dichloroethene					CAS #: 75-35-4		
6.708	6.708 (0.712)	98	530899	20.0000	21.556	70.00- 130.00	100.00
6.708	6.708 (0.712)	61	1543959			266.10- 326.10	290.82
6.708	6.708 (0.712)	96	840096			128.33- 188.33	158.24
24 Acetone					CAS #: 67-64-1		
7.013	7.013 (0.745)	43	1651874	20.0000	19.280	70.00- 130.00	100.00
7.013	7.013 (0.745)	58	557130			4.59- 64.59	33.73
28 2-Propanol					CAS #: 67-63-0		
7.372	7.372 (0.783)	45	2001109	20.0000	22.137	70.00- 130.00	100.00
7.372	7.372 (0.783)	43	351459			0.00- 47.61	17.56
7.372	7.372 (0.783)	59	78356			0.00- 33.99	3.92
21 Carbon Disulfide					CAS #: 75-15-0		
6.902	6.902 (0.733)	76	2777947	20.0000	22.140	70.00- 130.00	100.00
29 Methylene Chloride					CAS #: 75-09-2		
7.593	7.593 (0.806)	84	781634	20.0000	20.983	70.00- 130.00	100.00
7.593	7.593 (0.806)	49	1317348			136.55- 196.55	168.54
7.593	7.593 (0.806)	51	406275			19.70- 79.70	51.98
32 MTBE					CAS #: 1634-04-4		
7.897	7.897 (0.839)	73	3017711	20.0000	19.920	70.00- 130.00	100.00
7.897	7.897 (0.839)	57	1091144			5.95- 65.95	36.16
7.897	7.897 (0.839)	41	1277144			12.94- 72.94	42.32
33 trans-1,2-Dichloroethene					CAS #: 156-60-5		
7.897	7.897 (0.839)	98	668261	20.0000	21.807	70.00- 130.00	100.00
7.897	7.897 (0.839)	61	1790303			232.38- 292.38	267.90
7.897	7.897 (0.839)	96	1058100			122.68- 182.68	158.34
34 Hexane					CAS #: 110-54-3		
8.174	8.174 (0.868)	57	2190926	20.0000	19.949	70.00- 130.00	100.00
8.174	8.174 (0.868)	43	1387526			34.58- 94.58	63.33
8.174	8.174 (0.868)	86	340027			0.00- 45.61	15.52

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
38 1,1-Dichloroethane					CAS #: 75-34-3		
8.478	8.478 (0.900)	63	2148688	20.0000	19.915	70.00- 130.00	100.00
8.478	8.478 (0.900)	65	659852			0.75- 60.75	30.71
44 2-Butanone					CAS #: 78-93-3		
9.197	9.197 (0.976)	72	591674	20.0000	20.321	70.00- 130.00	100.00
9.197	9.197 (0.976)	43	2728905			443.11- 503.11	461.22
9.197	9.197 (0.976)	57	214986			5.29- 65.29	36.34
43 cis-1,2-Dichloroethene					CAS #: 156-59-2		
9.142	9.142 (0.971)	98	715539	20.0000	20.215	70.00- 130.00	100.00
9.142	9.142 (0.971)	61	1698611			208.87- 268.87	237.39
9.142	9.142 (0.971)	96	1117291			127.78- 187.78	156.15
45 Tetrahydrofuran					CAS #: 109-99-9		
9.418	9.418 (1.000)	42	1723672	20.0000	20.467	70.00- 130.00	100.00
9.418	9.418 (1.000)	71	527208			0.78- 60.78	30.59
9.418	9.418 (1.000)	72	579465			4.38- 64.38	33.62
48 Chloroform					CAS #: 67-66-3		
9.529	9.529 (1.012)	83	2070008	20.0000	20.044	70.00- 130.00	100.00
9.529	9.529 (1.012)	85	1344536			35.22- 95.22	64.95
51 1,1,1-Trichloroethane					CAS #: 71-55-6		
9.667	9.667 (1.026)	97	2129107	20.0000	18.682	70.00- 130.00	100.00
9.667	9.667 (1.026)	99	1351318			33.30- 93.30	63.47
50 Cyclohexane					CAS #: 110-82-7		
9.639	9.639 (1.023)	84	1710754	20.0000	19.737	70.00- 130.00	100.00
9.639	9.639 (1.023)	56	2450950			112.88- 172.88	143.27
9.639	9.639 (1.023)	41	1245207			42.36- 102.36	72.79
52 Carbon Tetrachloride					CAS #: 56-23-5		
9.833	9.833 (1.044)	119	1886544	20.0000	21.796	70.00- 130.00	100.00
9.833	9.833 (1.044)	117	1944278			74.08- 134.08	103.06
56 Benzene					CAS #: 71-43-2		
10.137	10.137 (0.946)	78	3538731	20.0000	18.640	70.00- 130.00	100.00
10.137	10.137 (0.946)	77	811408			0.00- 53.10	22.93
58 1,2-Dichloroethane					CAS #: 107-06-2		
10.248	10.248 (0.956)	62	1587737	20.0000	19.714	70.00- 130.00	100.00
10.275	10.275 (0.959)	64	503450			1.17- 61.17	31.71
59 Heptane					CAS #: 142-82-5		
10.386	10.386 (0.969)	43	2747224	20.0000	19.687	70.00- 130.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
59 Heptane (continued)							
10.386	10.386 (0.969)	57	1444322			22.34- 82.34	52.57
10.386	10.386 (0.969)	100	452865			0.00- 46.30	16.48
61 Trichloroethene					CAS #: 79-01-6		
11.049	11.049 (1.031)	130	1495369	20.0000	18.475	70.00- 130.00	100.00
11.049	11.049 (1.031)	95	1485042			70.30- 130.30	99.31
11.049	11.049 (1.031)	97	966362			35.09- 95.09	64.62
64 1,2-Dichloropropane					CAS #: 78-87-5		
11.492	11.492 (1.072)	63	1469514	20.0000	19.578	70.00- 130.00	100.00
11.492	11.492 (1.072)	62	1068167			42.88- 102.88	72.69
11.492	11.492 (1.072)	41	833275			26.54- 86.54	56.70
65 1,4-Dioxane					CAS #: 123-91-1		
11.658	11.658 (1.088)	88	803617	20.0000	22.120	70.00- 130.00	100.00
11.658	11.658 (1.088)	58	667724			51.89- 111.89	83.09
11.658	11.658 (1.088)	57	212366			0.00- 56.59	26.43
66 Bromodichloromethane					CAS #: 75-27-4		
11.962	11.962 (1.116)	83	2238451	20.0000	19.230	70.00- 130.00	100.00
11.962	11.962 (1.116)	85	1428689			33.04- 93.04	63.82
67 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
12.874	12.874 (1.201)	75	1958071	20.0000	20.580	70.00- 130.00	100.00
12.874	12.874 (1.201)	77	608283			1.64- 61.64	31.07
12.874	12.874 (1.201)	39	1085631			25.50- 85.50	55.44
68 4-Methyl-2-pentanone					CAS #: 108-10-1		
13.178	13.178 (1.230)	43	3419953	20.0000	21.126	70.00- 130.00	100.00
13.178	13.178 (1.230)	58	1347673			9.71- 69.71	39.41
13.178	13.178 (1.230)	85	509936			0.00- 45.16	14.91
72 Toluene					CAS #: 108-88-3		
13.455	13.455 (1.255)	91	4186672	20.0000	19.705	70.00- 130.00	100.00
13.455	13.455 (1.255)	92	2528644			31.29- 91.29	60.40
73 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
14.008	14.008 (0.880)	75	1979603	20.0000	21.276	70.00- 130.00	100.00
14.008	14.008 (0.880)	77	625429			2.42- 62.42	31.59
14.008	14.008 (0.880)	39	1075979			24.97- 84.97	54.35
74 1,1,2-Trichloroethane					CAS #: 79-00-5		
14.340	14.340 (0.901)	97	1424485	20.0000	18.692	70.00- 130.00	100.00
14.340	14.340 (0.901)	99	896171			31.67- 91.67	62.91
14.340	14.340 (0.901)	83	1227228			55.59- 115.59	86.15

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
75 Tetrachloroethene					CAS #: 127-18-4		
14.423	14.423 (0.906)	166	1753425	20.0000	18.661	70.00- 130.00	100.00
14.423	14.423 (0.906)	129	1418096			50.76- 110.76	80.88
14.423	14.423 (0.906)	131	1353244			47.60- 107.60	77.18
76 2-Hexanone					CAS #: 591-78-6		
14.754	14.754 (0.927)	58	1886901	20.0000	22.933	70.00- 130.00	100.00
14.754	14.754 (0.927)	43	3456119			150.45- 210.45	183.16
14.754	14.754 (0.927)	100	355895			0.00- 48.91	18.86
77 Dibromochloromethane					CAS #: 124-48-1		
14.976	14.976 (0.941)	129	2212930	20.0000	21.604	70.00- 130.00	100.00
14.976	14.976 (0.941)	127	1702709			49.01- 109.01	76.94
15.003	15.003 (0.943)	208	101904			0.00- 34.90	4.60
78 1,2-Dibromoethane					CAS #: 106-93-4		
15.197	15.197 (0.955)	107	2174190	20.0000	19.515	70.00- 130.00	100.00
15.197	15.197 (0.955)	109	2048125			64.32- 124.32	94.20
81 Chlorobenzene					CAS #: 108-90-7		
15.971	15.971 (1.003)	112	3504999	20.0000	19.621	70.00- 130.00	100.00
15.971	15.971 (1.003)	114	1106118			1.72- 61.72	31.56
15.971	15.971 (1.003)	77	2127747			30.04- 90.04	60.71
84 Ethyl Benzene					CAS #: 100-41-4		
16.109	16.109 (1.012)	106	1905776	20.0000	20.071	70.00- 130.00	100.00
16.109	16.109 (1.012)	91	6090142			290.46- 350.46	319.56
85 m,p-Xylene					CAS #: 108-38-3		
16.303	16.303 (1.024)	106	2427088	20.0000	19.953	70.00- 130.00	100.00
16.303	16.303 (1.024)	91	4887538			176.36- 236.36	201.37
86 o-Xylene					CAS #: 95-47-6		
16.911	16.911 (1.063)	106	2277669	20.0000	19.888	70.00- 130.00	100.00
16.911	16.911 (1.063)	91	4828275			181.88- 241.88	211.98
87 Styrene					CAS #: 100-42-5		
16.966	16.966 (1.066)	104	3702365	20.0000	20.558	70.00- 130.00	100.00
16.966	16.966 (1.066)	78	1892852			21.27- 81.27	51.13
89 Bromoform					CAS #: 75-25-2		
17.271	17.271 (1.085)	173	1890124	20.0000	21.988	70.00- 130.00	100.00
17.271	17.271 (1.085)	171	958497			21.12- 81.12	50.71
90 Cumene					CAS #: 98-82-8		
17.464	17.464 (1.097)	105	6607730	20.0000	19.993	70.00- 130.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
90 Cumene (continued)							
17.464	17.464 (1.097)	120	1769039			0.00- 57.28	26.77
94 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
18.045	18.045 (1.134)	83	3191874	20.0000	19.236	70.00- 130.00	100.00
18.045	18.045 (1.134)	85	2058587			35.03- 95.03	64.49
96 Propylbenzene					CAS #: 103-65-1		
18.100	18.100 (1.137)	91	8239852	20.0000	20.092	70.00- 130.00	100.00
18.100	18.100 (1.137)	120	1874246			0.00- 52.67	22.75
97 4-Ethyltoluene					CAS #: 622-96-8		
18.294	18.294 (1.149)	105	7071701	20.0000	20.124	70.00- 130.00	100.00
18.294	18.294 (1.149)	120	2119095			0.00- 59.95	29.97
98 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
18.404	18.404 (1.156)	105	5762368	20.0000	19.851	70.00- 130.00	100.00
18.404	18.404 (1.156)	120	2894027			19.88- 79.88	50.22
102 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
19.040	19.040 (1.196)	105	5697667	20.0000	20.072	70.00- 130.00	100.00
19.040	19.040 (1.196)	120	2631049			16.90- 76.90	46.18
105 1,3-Dichlorobenzene					CAS #: 541-73-1		
19.482	19.482 (1.224)	146	3509760	20.0000	19.148	70.00- 130.00	100.00
19.482	19.482 (1.224)	148	2217840			33.25- 93.25	63.19
19.482	19.482 (1.224)	111	1536837			13.08- 73.08	43.79
106 1,4-Dichlorobenzene					CAS #: 106-46-7		
19.621	19.621 (1.233)	146	3638851	20.0000	19.295	70.00- 130.00	100.00
19.621	19.621 (1.233)	148	2316187			33.07- 93.07	63.65
19.621	19.621 (1.233)	111	1512860			12.18- 72.18	41.58
109 alpha-chlorotoluene					CAS #: 100-44-7		
19.814	19.814 (1.245)	91	5061303	20.0000	23.254	70.00- 130.00	100.00
19.814	19.814 (1.245)	126	1023241			0.00- 50.13	20.22
112 1,2-Dichlorobenzene					CAS #: 95-50-1		
20.118	20.118 (1.264)	146	3400717	20.0000	18.987	70.00- 130.00	100.00
20.118	20.118 (1.264)	148	2128954			34.08- 94.08	62.60
20.118	20.118 (1.264)	111	1528204			15.93- 75.93	44.94
114 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
21.916	21.916 (1.377)	180	2514823	20.0000	20.326	70.00- 130.00	100.00
21.916	21.916 (1.377)	182	2371032			65.07- 125.07	94.28

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
115 Hexachlorobutadiene					CAS #: 87-68-3		
22.054	22.054 (1.386)	225	1812574	20.0000	20.154	70.00- 130.00	100.00
22.054	22.054 (1.386)	223	1132774			32.68- 92.68	62.50
55 2,2,4-Trimethylpentane					CAS #: 540-84-1		
10.137	10.137 (1.076)	56	2261159	20.0000	19.552	70.00- 130.00	100.00
10.137	10.137 (1.076)	99	344000			0.00- 44.97	15.21
10.137	10.137 (1.076)	41	1605276			41.28- 101.28	70.99
22 3-Chloroprene					CAS #: 107-05-1		
6.902	6.902 (0.733)	76	2777947	20.0000	22.140	70.00- 130.00	100.00
6.930	6.930 (0.736)	41	2898			0.00- 30.15	0.10
35 Vinyl Acetate					CAS #: 108-05-4		
8.561	8.561 (0.909)	43	2272834	20.0000	22.611	70.00- 130.00	100.00
8.561	8.561 (0.909)	42	169743			0.00- 37.53	7.47
8.561	8.561 (0.909)	86	200984			0.00- 38.89	8.84
14 Isopentane					CAS #: 78-78-4		
5.188	5.188 (0.551)	57	903420	20.0000	20.081	70.00- 130.00	100.00
5.188	5.188 (0.551)	43	1321167			117.08- 177.08	146.24
5.188	5.188 (0.551)	42	1159647			97.60- 157.60	128.36
63 Methylcyclohexane					CAS #: 108-87-2		
11.243	11.243 (1.194)	83	2297364	20.0000	19.918	70.00- 130.00	100.00
11.243	11.243 (1.194)	98	1125274			19.40- 79.40	48.98
11.243	11.243 (1.194)	55	2172052			66.29- 126.29	94.55
8 Butane					CAS #: 106-97-8		
3.529	3.529 (0.375)	58	193366	20.0000	17.961	70.00- 130.00	100.00
3.556	3.556 (0.378)	43	1385407			657.57- 717.57	716.47
117 Naphthalene					CAS #: 91-20-3		
22.220	22.220 (1.396)	128	6052713	20.0000	21.782	70.00- 130.00	100.00
22.220	22.220 (1.396)	127	745338			0.00- 42.66	12.31

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdy.i
Lab File ID: y022610.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: db
Method File: /chem/msdy.i/y-26feb.b/t14ll0226a.m
Misc Info: 50ppbv->20ppbv

Calibration Date: 26-FEB-2008
Calibration Time: 13:56
Client Smp ID: Level 10
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 Bromochloromethan	420808	252485	589131	376513	-10.53
60 1,4-Difluorobenze	1780063	1068038	2492088	1657365	-6.89
80 Chlorobenzene-d5	1282640	769584	1795696	1184559	-7.65

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 Bromochloromethan	9.45	9.12	9.78	9.42	-0.29
60 1,4-Difluorobenze	10.72	10.39	11.05	10.72	0.00
80 Chlorobenzene-d5	15.92	15.59	16.25	15.92	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/msdy.i/y-26feb.b/y022610.d

Date : 26-FEB-2008 15:28

Client ID: Level 10

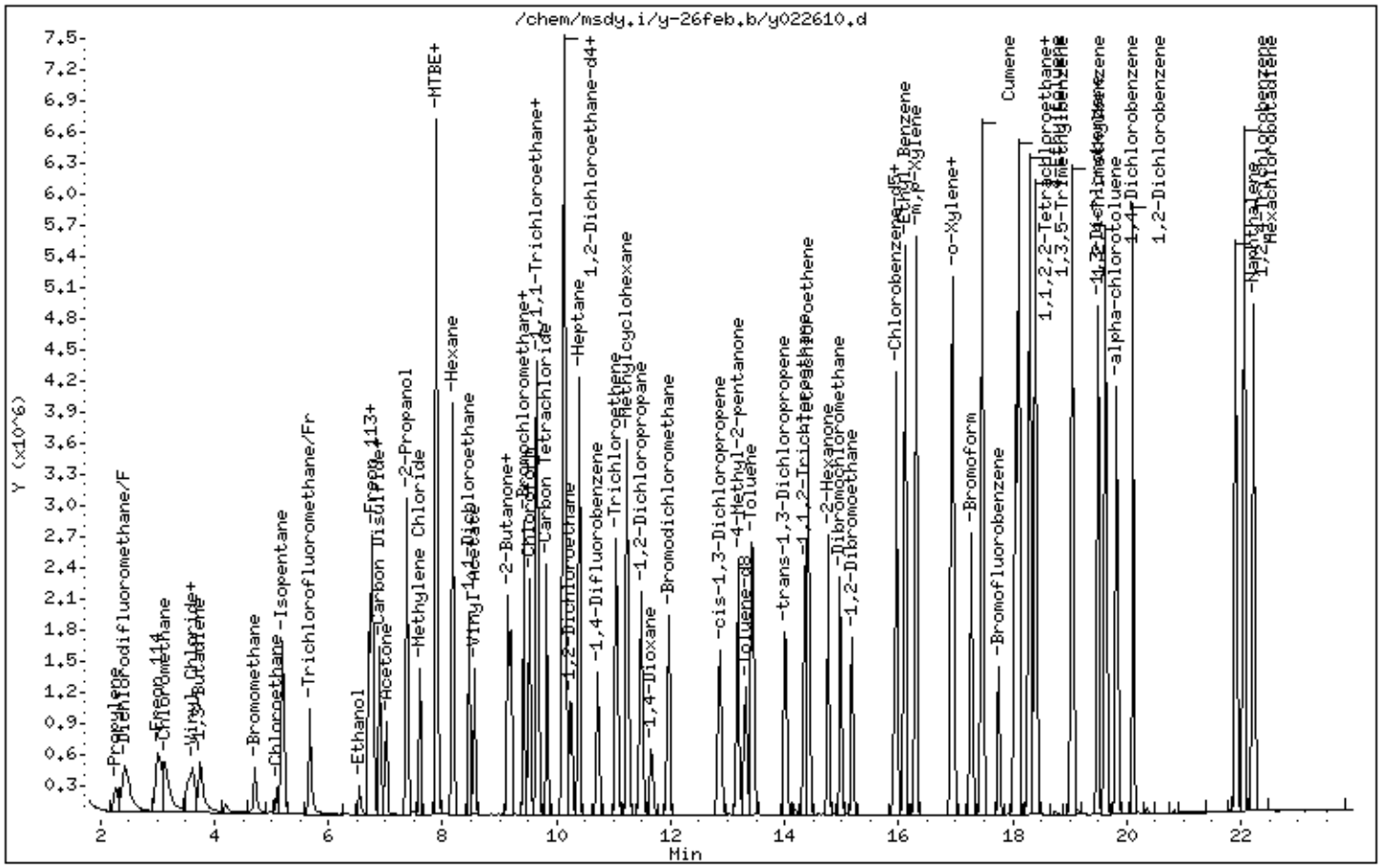
Instrument: msdy.i

Sample Info: 200ml #1576-287 20ppbv

Operator: db

Column phase: RTx-624

Column diameter: 0.32



Air Toxics Ltd.

AMBIENT AIR METHOD TO14/TO15

Data file : /chem/msdy.i/y-11mar.b/y031107.d
Lab Smp Id: ICAL Client Smp ID: Level 11
Inj Date : 11-MAR-2008 18:20
Operator : srs Inst ID: msdy.i
Smp Info : 400mL #1576-315
Misc Info : 50ppbv->40ppbv
Comment :
Method : /chem/msdy.i/y-11mar.b/t14ll0226b.m
Meth Date : 12-Mar-2008 14:35 ejakob Quant Type: ISTD
Cal Date : 11-MAR-2008 18:20 Cal File: y031107.d
Als bottle: 1 Calibration Sample, Level: 11
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: sp14b.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
* 47 Bromochloromethane					CAS #: 74-97-5		
9.446	9.446 (1.000)	130	439731	10.0000		70.00- 130.00	100.00
9.446	9.446 (1.000)	128	341132			0.00- 30.00	77.58
9.418	9.418 (1.000)	49	816390			0.00- 30.00	185.66
* 60 1,4-Difluorobenzene					CAS #: 540-36-3		
10.718	10.718 (1.000)	114	1827705	10.0000		70.00- 130.00	100.00
10.718	10.718 (1.000)	88	298830			0.00- 46.62	16.35
* 80 Chlorobenzene-d5					CAS #: 3114-55-4		
15.916	15.916 (1.000)	117	1297626	10.0000		70.00- 130.00	100.00
15.916	15.916 (1.000)	82	729971			0.00- 30.00	56.25
3 Freon 152A					CAS #: 75-37-6		
2.395	2.395 (0.254)	65	991698	40.0000	40.163	70.00- 130.00	100.00(A)
2.395	2.395 (0.254)	51	2084130			0.00- 30.00	210.16
15 Vinyl Bromide					CAS #: 593-60-2		
5.519	5.519 (0.584)	106	1006326	40.0000	40.981	70.00- 130.00	100.00(A)
5.519	5.519 (0.584)	108	942892			0.00- 30.00	93.70

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
30 tert-Butyl Alcohol					CAS #: 75-65-0		
7.925	7.925 (0.839)	59	5752668	40.0000	57.155	70.00- 130.00	100.00(A)
7.897	7.897 (0.836)	41	1945132			0.00- 30.00	33.81
7.925	7.925 (0.839)	57	590574			0.00- 30.00	10.27
39 2,4-Dimethylpentane					CAS #: 108-08-7		
8.782	8.782 (0.930)	57	6640563	40.0000	47.069	70.00- 130.00	100.00(A)
8.782	8.782 (0.930)	43	8150638			0.00- 30.00	122.74
8.782	8.782 (0.930)	85	1586752			0.00- 30.00	23.89
42 Ethyl Acetate					CAS #: 141-78-6		
9.224	9.224 (0.977)	43	7915025	40.0000	49.720	70.00- 130.00	100.00(A)
9.224	9.224 (0.977)	70	692838			0.00- 30.00	8.75
9.224	9.224 (0.977)	61	1011324			0.00- 30.00	12.78
46 2,3-Dimethylpentane					CAS #: 565-59-3		
9.695	9.695 (0.905)	71	3771786	80.0000	90.329	70.00- 130.00	100.00(A)
9.695	9.695 (0.905)	56	12318149			0.00- 30.00	326.59
9.695	9.695 (0.905)	43	9989353			0.00- 30.00	264.84
69 Octane					CAS #: 111-65-9		
13.538	13.538 (1.263)	57	3747080	40.0000	45.258	70.00- 130.00	100.00(A)
13.538	13.538 (1.263)	85	3810544			72.14- 132.14	101.69
13.538	13.538 (1.263)	43	10036964			235.35- 295.35	267.86
82 Nonane					CAS #: 111-84-2		
16.247	16.247 (1.021)	43	11394026	40.0000	47.955	70.00- 130.00	100.00(A)
16.247	16.247 (1.021)	57	9531529			0.00- 30.00	83.65
16.275	16.275 (1.023)	85	3233261			0.00- 30.00	28.38
88 alpha-Pinene					CAS #: 80-53-8		
17.381	17.381 (1.092)	93	11478803	40.0000	47.234	70.00- 130.00	100.00(A)
17.381	17.381 (1.092)	121	1288142			0.00- 30.00	11.22
17.381	17.381 (1.092)	92	4165483			0.00- 30.00	36.29
93 2-Chlorotoluene					CAS #: 95-49-8		
18.266	18.266 (1.148)	126	4059519	40.0000	42.957	70.00- 130.00	100.00(A)
18.266	18.266 (1.148)	91	12980822			0.00- 30.00	319.76
18.266	18.266 (1.148)	65	1254408			0.00- 30.00	30.90
95 Decane					CAS #: 124-18-5		
18.321	18.321 (1.151)	57	12572030	40.0000	46.823	70.00- 130.00	100.00(A)
18.321	18.321 (1.151)	71	4147295			0.00- 30.00	32.99
18.321	18.321 (1.151)	142	606407			0.00- 30.00	4.82
101 sec-Butylbenzene					CAS #: 135-98-8		
19.289	19.289 (1.212)	105	21102918	40.0000	44.577	70.00- 130.00	100.00(A)

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
101 sec-Butylbenzene (continued)							
19.289	19.289 (1.212)	134	4258326			0.00- 30.00	20.18
19.289	19.289 (1.212)	91	3293887			0.00- 30.00	15.61
104 1,2,3-Trimethylbenzene					CAS #: 526-73-8		
19.676	19.676 (1.236)	120	5852781	40.0000	45.728	70.00- 130.00	100.00(A)
19.648	19.648 (1.235)	105	13795074			0.00- 30.00	235.70
19.648	19.648 (1.235)	77	1647358			0.00- 30.00	28.15
108 Butylbenzene					CAS #: 104-51-8		
20.035	20.035 (1.259)	134	4479216	40.0000	43.906	70.00- 130.00	100.00(A)
20.035	20.035 (1.259)	91	17280057			340.77- 400.77	385.78
20.035	20.035 (1.259)	92	9601513			0.00- 30.00	214.36

QC Flag Legend

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

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdy.i
Lab File ID: y031107.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: srs
Method File: /chem/msdy.i/y-11mar.b/t14ll0226b.m
Misc Info: 50ppbv->40ppbv

Calibration Date: 11-MAR-2008
Calibration Time: 17:44
Client Smp ID: Level 11
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 Bromochloromethan	424269	254561	593977	439731	3.64
60 1,4-Difluorobenze	1740856	1044514	2437198	1827705	4.99
80 Chlorobenzene-d5	1235672	741403	1729941	1297626	5.01

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 Bromochloromethan	9.45	9.12	9.78	9.45	0.00
60 1,4-Difluorobenze	10.72	10.39	11.05	10.72	0.00
80 Chlorobenzene-d5	15.92	15.59	16.25	15.92	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/msdy.i/y-11mar.b/y031107.d

Date : 11-MAR-2008 18:20

Client ID: Level 11

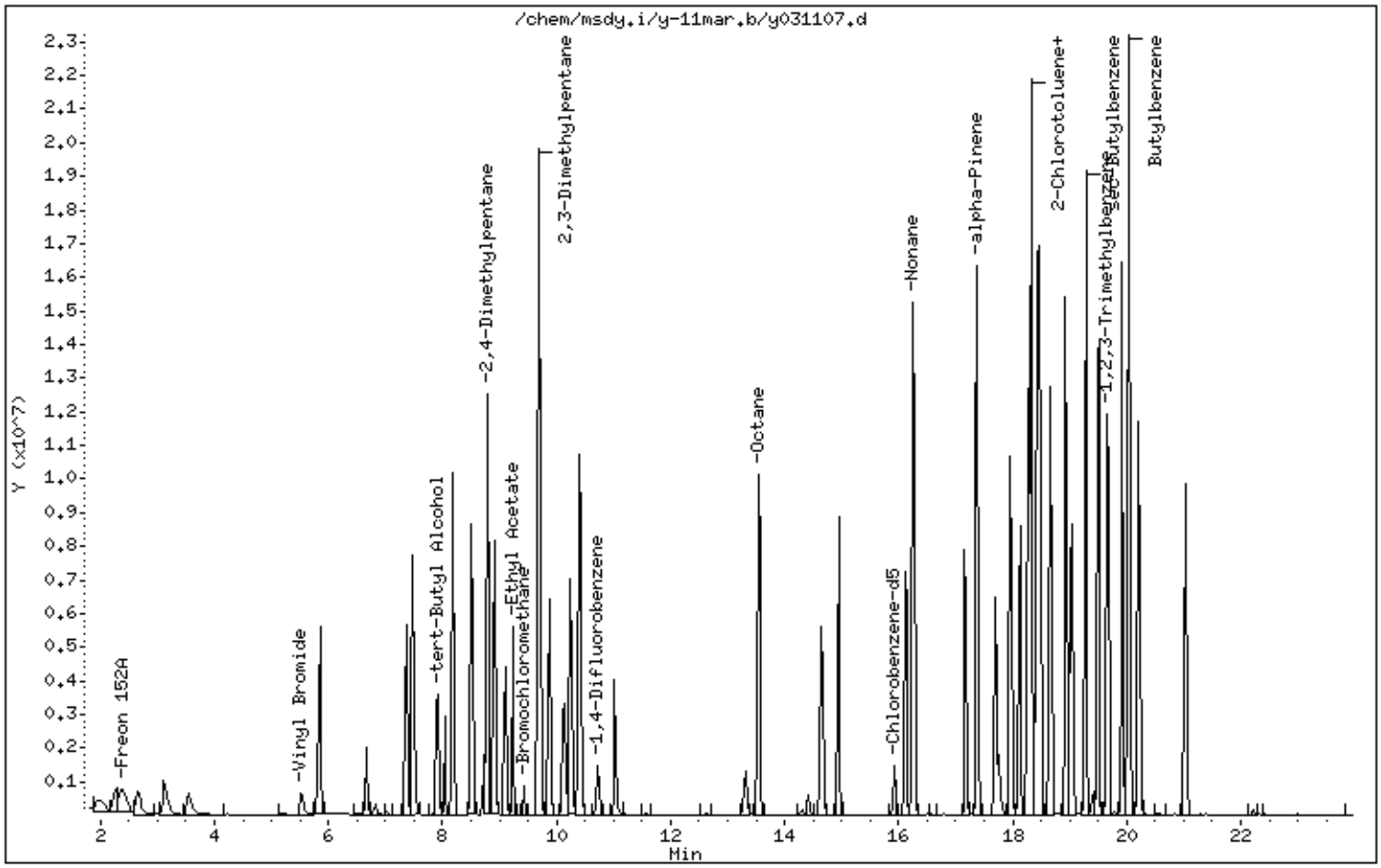
Instrument: msdy.i

Sample Info: 400mL #1576-315

Operator: srs

Column phase: RTx-624

Column diameter: 0.32



Air Toxics Ltd.

AMBIENT AIR METHOD TO14/TO15

Data file : /chem/msdy.i/y-26feb.b/y022611.d
Lab Smp Id: ICAL Client Smp ID: Level 11
Inj Date : 26-FEB-2008 16:07
Operator : db Inst ID: msdy.i
Smp Info : 400ml #1576-287 40ppbv
Misc Info : 50ppbv->40ppbv
Comment :
Method : /chem/msdy.i/y-26feb.b/t14ll0226a.m
Meth Date : 04-Mar-2008 09:42 ejakob Quant Type: ISTD
Cal Date : 26-FEB-2008 16:07 Cal File: y022611.d
Als bottle: 1 Calibration Sample, Level: 11
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT06ENSR.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				AMOUNTS				
				CAL-AMT	ON-COL			
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE		RATIO
==	====== ========	====	========	=======	=======	==========		=====
* 47 Bromochloromethane						CAS #: 74-97-5		
9.446	9.446 (1.000)	130	369472	10.0000		70.00- 130.00		100.00
9.446	9.446 (1.000)	128	288730			46.57- 106.57		78.15
9.418	9.418 (1.000)	49	683303			153.94- 213.94		184.94
* 60 1,4-Difluorobenzene						CAS #: 540-36-3		
10.717	10.717 (1.000)	114	1663457	10.0000		70.00- 130.00		100.00
10.717	10.717 (1.000)	88	291738			0.00- 47.32		17.54
* 80 Chlorobenzene-d5						CAS #: 3114-55-4		
15.916	15.916 (1.000)	117	1198347	10.0000		70.00- 130.00		100.00
15.916	15.916 (1.000)	82	698033			28.42- 88.42		58.25
$ 57 1,2-Dichloroethane-d4						CAS #: 17060-07-0		
10.164	10.164 (1.076)	65	582780	10.0000	10.671	70.00- 130.00		100.00
10.164	10.164 (1.076)	67	371513			24.94- 84.94		63.75
$ 70 Toluene-d8						CAS #: 2037-26-5		
13.317	13.317 (1.242)	98	1648888	10.0000	9.862	70.00- 130.00		100.00
13.317	13.317 (1.242)	70	177773			0.00- 40.97		10.78

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
$ 70 Toluene-d8 (continued)							
13.317	13.317 (1.242)	100	1094188			37.65- 97.65	66.36
$ 92 Bromofluorobenzene					CAS #: 460-00-4		
17.768	17.768 (1.116)	174	654138	10.0000	10.068	70.00- 130.00	100.00
17.768	17.768 (1.116)	95	1023130			130.48- 190.48	156.41
17.768	17.768 (1.116)	176	626496			65.64- 125.64	95.77
2 Propylene					CAS #: 115-07-1		
2.257	2.257 (0.239)	41	1283290	40.0000	37.340	70.00- 130.00	100.00
2.257	2.257 (0.239)	42	877843			38.49- 98.49	68.41
2.257	2.257 (0.239)	39	903168			40.69- 100.69	70.38
4 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
2.423	2.423 (0.256)	85	3824663	40.0000	36.314	70.00- 130.00	100.00
2.423	2.423 (0.256)	87	1245627			2.58- 62.58	32.57
6 Freon 114					CAS #: 76-14-2		
3.003	3.003 (0.318)	135	2586130	40.0000	39.038	70.00- 130.00	100.00
3.003	3.003 (0.318)	137	821164			0.89- 60.89	31.75
7 Chloromethane					CAS #: 74-87-3		
3.142	3.142 (0.333)	50	1920139	40.0000	38.824	70.00- 130.00	100.00
3.142	3.142 (0.333)	52	536355			0.95- 60.95	27.93
9 Vinyl Chloride					CAS #: 75-01-4		
3.612	3.612 (0.382)	62	1771625	40.0000	38.356	70.00- 130.00	100.00
3.612	3.612 (0.382)	64	538752			1.67- 61.67	30.41
10 1,3-Butadiene					CAS #: 106-99-0		
3.777	3.777 (0.400)	54	1289926	40.0000	41.464	70.00- 130.00	100.00(A)
3.777	3.777 (0.400)	39	1236690			65.65- 125.65	95.87
12 Bromomethane					CAS #: 74-83-9		
4.718	4.718 (0.499)	94	1165273	40.0000	49.189	70.00- 130.00	100.00(A)
4.718	4.718 (0.499)	96	1099316			62.68- 122.68	94.34
13 Chloroethane					CAS #: 75-00-3		
5.077	5.077 (0.537)	64	570574	40.0000	33.325	70.00- 130.00	100.00
5.077	5.077 (0.537)	66	172393			1.55- 61.55	30.21
5.077	5.077 (0.537)	49	148651			0.00- 57.55	26.05
16 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
5.685	5.685 (0.602)	101	3609274	40.0000	38.769	70.00- 130.00	100.00
5.685	5.685 (0.602)	103	2326468			35.42- 95.42	64.46

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
17 Ethanol					CAS #: 64-17-5		
6.570	6.570 (0.696)	45	704077	40.0000	30.550	70.00- 130.00	100.00
6.570	6.570 (0.696)	43	147972			0.00- 48.46	21.02
6.570	6.570 (0.696)	46	298505			10.06- 70.06	42.40
20 Freon 113					CAS #: 76-13-1		
6.764	6.764 (0.716)	151	1930100	40.0000	34.035	70.00- 130.00	100.00
6.764	6.764 (0.716)	153	1229275			32.83- 92.83	63.69
6.764	6.764 (0.716)	101	2497096			98.27- 158.27	129.38
18 1,1-Dichloroethene					CAS #: 75-35-4		
6.708	6.708 (0.710)	98	857777	40.0000	36.171	70.00- 130.00	100.00
6.708	6.708 (0.710)	61	2633115			266.10- 326.10	306.97
6.708	6.708 (0.710)	96	1336541			128.33- 188.33	155.81
24 Acetone					CAS #: 67-64-1		
7.012	7.012 (0.742)	43	2760546	40.0000	33.844	70.00- 130.00	100.00
7.012	7.012 (0.742)	58	899003			4.59- 64.59	32.57
28 2-Propanol					CAS #: 67-63-0		
7.400	7.400 (0.783)	45	2831121	40.0000	33.029	70.00- 130.00	100.00
7.400	7.400 (0.783)	43	527334			0.00- 47.61	18.63
7.400	7.400 (0.783)	59	115877			0.00- 33.99	4.09
21 Carbon Disulfide					CAS #: 75-15-0		
6.902	6.902 (0.731)	76	3746440	40.0000	31.691	70.00- 130.00	100.00
29 Methylene Chloride					CAS #: 75-09-2		
7.621	7.621 (0.807)	84	912217	40.0000	26.625	70.00- 130.00	100.00
7.593	7.593 (0.804)	49	1463855			136.55- 196.55	160.47
7.593	7.593 (0.804)	51	458995			19.70- 79.70	50.32
32 MTBE					CAS #: 1634-04-4		
7.897	7.897 (0.836)	73	3780738	40.0000	26.828	70.00- 130.00	100.00
7.925	7.925 (0.839)	57	1324102			5.95- 65.95	35.02
7.925	7.925 (0.839)	41	1402863			12.94- 72.94	37.11
33 trans-1,2-Dichloroethene					CAS #: 156-60-5		
7.897	7.897 (0.836)	98	773470	40.0000	27.349	70.00- 130.00	100.00
7.897	7.897 (0.836)	61	2150639			232.38- 292.38	278.05
7.897	7.897 (0.836)	96	1211587			122.68- 182.68	156.64
34 Hexane					CAS #: 110-54-3		
8.174	8.174 (0.865)	57	4812116	40.0000	43.802	70.00- 130.00	100.00(A)
8.174	8.174 (0.865)	43	3077748			34.58- 94.58	63.96
8.174	8.174 (0.865)	86	727557			0.00- 45.61	15.12

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
38 1,1-Dichloroethane					CAS #: 75-34-3		
8.478	8.478 (0.898)	63	4418632	40.0000	41.434	70.00- 130.00	100.00(A)
8.478	8.478 (0.898)	65	1336823			0.75- 60.75	30.25
44 2-Butanone					CAS #: 78-93-3		
9.197	9.197 (0.974)	72	1183656	40.0000	41.182	70.00- 130.00	100.00(A)
9.197	9.197 (0.974)	43	5874472			443.11- 503.11	496.30
9.197	9.197 (0.974)	57	444265			5.29- 65.29	37.53
43 cis-1,2-Dichloroethene					CAS #: 156-59-2		
9.141	9.141 (0.968)	98	1375272	40.0000	39.661	70.00- 130.00	100.00
9.141	9.141 (0.968)	61	3288877			208.87- 268.87	239.14
9.141	9.141 (0.968)	96	2161265			127.78- 187.78	157.15
45 Tetrahydrofuran					CAS #: 109-99-9		
9.446	9.446 (1.000)	42	3349811	40.0000	40.444	70.00- 130.00	100.00(A)
9.446	9.446 (1.000)	71	1035131			0.78- 60.78	30.90
9.446	9.446 (1.000)	72	1127864			4.38- 64.38	33.67
48 Chloroform					CAS #: 67-66-3		
9.529	9.529 (1.009)	83	4112206	40.0000	40.481	70.00- 130.00	100.00(A)
9.529	9.529 (1.009)	85	2655749			35.22- 95.22	64.58
51 1,1,1-Trichloroethane					CAS #: 71-55-6		
9.667	9.667 (1.023)	97	4128884	40.0000	37.330	70.00- 130.00	100.00
9.667	9.667 (1.023)	99	2646117			33.30- 93.30	64.09
50 Cyclohexane					CAS #: 110-82-7		
9.639	9.639 (1.020)	84	3292622	40.0000	38.920	70.00- 130.00	100.00
9.639	9.639 (1.020)	56	4710244			112.88- 172.88	143.05
9.639	9.639 (1.020)	41	2424220			42.36- 102.36	73.63
52 Carbon Tetrachloride					CAS #: 56-23-5		
9.833	9.833 (1.041)	119	3798695	40.0000	43.983	70.00- 130.00	100.00(A)
9.833	9.833 (1.041)	117	3956947			74.08- 134.08	104.17
56 Benzene					CAS #: 71-43-2		
10.137	10.137 (0.946)	78	6952935	40.0000	37.031	70.00- 130.00	100.00
10.137	10.137 (0.946)	77	1579155			0.00- 53.10	22.71
58 1,2-Dichloroethane					CAS #: 107-06-2		
10.275	10.275 (0.959)	62	3121693	40.0000	38.842	70.00- 130.00	100.00
10.275	10.275 (0.959)	64	983277			1.17- 61.17	31.50
59 Heptane					CAS #: 142-82-5		
10.386	10.386 (0.969)	43	5638484	40.0000	40.216	70.00- 130.00	100.00(A)

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
	59 Heptane (continued)						
10.386	10.386 (0.969)	57	2896623			22.34- 82.34	51.37
10.386	10.386 (0.969)	100	886669			0.00- 46.30	15.73
	61 Trichloroethene				CAS #: 79-01-6		
11.077	11.077 (1.034)	130	2894969	40.0000	36.200	70.00- 130.00	100.00
11.049	11.049 (1.031)	95	2923652			70.30- 130.30	100.99
11.049	11.049 (1.031)	97	1890644			35.09- 95.09	65.31
	64 1,2-Dichloropropane				CAS #: 78-87-5		
11.492	11.492 (1.072)	63	2886444	40.0000	38.586	70.00- 130.00	100.00
11.492	11.492 (1.072)	62	2109504			42.88- 102.88	73.08
11.492	11.492 (1.072)	41	1632557			26.54- 86.54	56.56
	65 1,4-Dioxane				CAS #: 123-91-1		
11.685	11.685 (1.090)	88	1670440	40.0000	44.729	70.00- 130.00	100.00(A)
11.685	11.685 (1.090)	58	1378109			51.89- 111.89	82.50
11.685	11.685 (1.090)	57	442243			0.00- 56.59	26.47
	66 Bromodichloromethane				CAS #: 75-27-4		
11.962	11.962 (1.116)	83	4401208	40.0000	37.987	70.00- 130.00	100.00
11.962	11.962 (1.116)	85	2824065			33.04- 93.04	64.17
	67 cis-1,3-Dichloropropene				CAS #: 10061-01-5		
12.874	12.874 (1.201)	75	3889547	40.0000	40.607	70.00- 130.00	100.00(A)
12.874	12.874 (1.201)	77	1234407			1.64- 61.64	31.74
12.874	12.874 (1.201)	39	2181976			25.50- 85.50	56.10
	68 4-Methyl-2-pentanone				CAS #: 108-10-1		
13.178	13.178 (1.230)	43	6955407	40.0000	42.313	70.00- 130.00	100.00(A)
13.178	13.178 (1.230)	58	2708981			9.71- 69.71	38.95
13.178	13.178 (1.230)	85	1014707			0.00- 45.16	14.59
	72 Toluene				CAS #: 108-88-3		
13.455	13.455 (1.255)	91	8318942	40.0000	39.172	70.00- 130.00	100.00
13.455	13.455 (1.255)	92	5053367			31.29- 91.29	60.75
	73 trans-1,3-Dichloropropene				CAS #: 10061-02-6		
14.035	14.035 (0.882)	75	4031243	40.0000	42.328	70.00- 130.00	100.00(A)
14.035	14.035 (0.882)	77	1285000			2.42- 62.42	31.88
14.008	14.008 (0.880)	39	2198118			24.97- 84.97	54.53
	74 1,1,2-Trichloroethane				CAS #: 79-00-5		
14.340	14.340 (0.901)	97	2822358	40.0000	37.058	70.00- 130.00	100.00
14.340	14.340 (0.901)	99	1752678			31.67- 91.67	62.10
14.340	14.340 (0.901)	83	2406329			55.59- 115.59	85.26

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
75 Tetrachloroethene					CAS #: 127-18-4		
14.422	14.422 (0.906)	166	3371645	40.0000	36.054	70.00- 130.00	100.00
14.422	14.422 (0.906)	129	2718294			50.76- 110.76	80.62
14.422	14.422 (0.906)	131	2629334			47.60- 107.60	77.98
76 2-Hexanone					CAS #: 591-78-6		
14.782	14.782 (0.929)	58	3832278	40.0000	44.910	70.00- 130.00	100.00(A)
14.782	14.782 (0.929)	43	7046881			150.45- 210.45	183.88
14.782	14.782 (0.929)	100	712298			0.00- 48.91	18.59
77 Dibromochloromethane					CAS #: 124-48-1		
14.975	14.975 (0.941)	129	4440004	40.0000	42.416	70.00- 130.00	100.00(A)
14.975	14.975 (0.941)	127	3430216			49.01- 109.01	77.26
15.003	15.003 (0.943)	208	209462			0.00- 34.90	4.72
78 1,2-Dibromoethane					CAS #: 106-93-4		
15.197	15.197 (0.955)	107	4321549	40.0000	38.572	70.00- 130.00	100.00
15.197	15.197 (0.955)	109	4065206			64.32- 124.32	94.07
81 Chlorobenzene					CAS #: 108-90-7		
15.971	15.971 (1.003)	112	6928103	40.0000	38.605	70.00- 130.00	100.00
15.971	15.971 (1.003)	114	2189558			1.72- 61.72	31.60
15.971	15.971 (1.003)	77	4226431			30.04- 90.04	61.00
84 Ethyl Benzene					CAS #: 100-41-4		
16.109	16.109 (1.012)	106	3737323	40.0000	39.086	70.00- 130.00	100.00
16.109	16.109 (1.012)	91	12181705			290.46- 350.46	325.95
85 m,p-Xylene					CAS #: 108-38-3		
16.303	16.303 (1.024)	106	4744556	40.0000	38.789	70.00- 130.00	100.00
16.303	16.303 (1.024)	91	9722659			176.36- 236.36	204.92
86 o-Xylene					CAS #: 95-47-6		
16.939	16.939 (1.064)	106	4426011	40.0000	38.490	70.00- 130.00	100.00
16.911	16.911 (1.063)	91	9682232			181.88- 241.88	218.76
87 Styrene					CAS #: 100-42-5		
16.966	16.966 (1.066)	104	7397826	40.0000	40.503	70.00- 130.00	100.00(A)
16.966	16.966 (1.066)	78	3712014			21.27- 81.27	50.18
89 Bromoform					CAS #: 75-25-2		
17.270	17.270 (1.085)	173	3854852	40.0000	43.653	70.00- 130.00	100.00(A)
17.270	17.270 (1.085)	171	1973922			21.12- 81.12	51.21
90 Cumene					CAS #: 98-82-8		
17.464	17.464 (1.097)	105	13386074	40.0000	40.031	70.00- 130.00	100.00(A)

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
	90 Cumene (continued)						
17.464	17.464 (1.097)	120	3520927			0.00- 57.28	26.30
	94 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5	
18.045	18.045 (1.134)	83	6556797	40.0000	39.192	70.00- 130.00	100.00
18.045	18.045 (1.134)	85	4196860			35.03- 95.03	64.01
	96 Propylbenzene					CAS #: 103-65-1	
18.100	18.100 (1.137)	91	16666846	40.0000	40.144	70.00- 130.00	100.00(A)
18.100	18.100 (1.137)	120	3685720			0.00- 52.67	22.11
	97 4-Ethyltoluene					CAS #: 622-96-8	
18.293	18.293 (1.149)	105	14343883	40.0000	40.290	70.00- 130.00	100.00(A)
18.293	18.293 (1.149)	120	4210276			0.00- 59.95	29.35
	98 1,3,5-Trimethylbenzene					CAS #: 108-67-8	
18.404	18.404 (1.156)	105	11773206	40.0000	40.076	70.00- 130.00	100.00(A)
18.404	18.404 (1.156)	120	5827167			19.88- 79.88	49.50
	102 1,2,4-Trimethylbenzene					CAS #: 95-63-6	
19.040	19.040 (1.196)	105	11778515	40.0000	40.843	70.00- 130.00	100.00(A)
19.040	19.040 (1.196)	120	5412014			16.90- 76.90	45.95
	105 1,3-Dichlorobenzene					CAS #: 541-73-1	
19.482	19.482 (1.224)	146	7275451	40.0000	39.344	70.00- 130.00	100.00
19.510	19.510 (1.226)	148	4576321			33.25- 93.25	62.90
19.482	19.482 (1.224)	111	3135906			13.08- 73.08	43.10
	106 1,4-Dichlorobenzene					CAS #: 106-46-7	
19.621	19.621 (1.233)	146	7527090	40.0000	39.531	70.00- 130.00	100.00
19.621	19.621 (1.233)	148	4749441			33.07- 93.07	63.10
19.621	19.621 (1.233)	111	3121164			12.18- 72.18	41.47
	109 alpha-chlorotoluene					CAS #: 100-44-7	
19.814	19.814 (1.245)	91	11449701	40.0000	49.863	70.00- 130.00	100.00(A)
19.814	19.814 (1.245)	126	2245551			0.00- 50.13	19.61
	112 1,2-Dichlorobenzene					CAS #: 95-50-1	
20.118	20.118 (1.264)	146	7129282	40.0000	39.438	70.00- 130.00	100.00
20.118	20.118 (1.264)	148	4485761			34.08- 94.08	62.92
20.118	20.118 (1.264)	111	3203948			15.93- 75.93	44.94
	114 1,2,4-Trichlorobenzene					CAS #: 120-82-1	
21.916	21.916 (1.377)	180	5414974	40.0000	42.682	70.00- 130.00	100.00(A)
21.916	21.916 (1.377)	182	5108636			65.07- 125.07	94.34

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
115 Hexachlorobutadiene					CAS #: 87-68-3		
22.054	22.054 (1.386)	225	3745680	40.0000	40.970	70.00- 130.00	100.00(A)
22.054	22.054 (1.386)	223	2395828			32.68- 92.68	63.96
55 2,2,4-Trimethylpentane					CAS #: 540-84-1		
10.137	10.137 (1.073)	56	5039933	40.0000	43.610	70.00- 130.00	100.00(A)
10.137	10.137 (1.073)	99	751070			0.00- 44.97	14.90
10.137	10.137 (1.073)	41	3595585			41.28- 101.28	71.34
22 3-Chloroprene					CAS #: 107-05-1		
6.902	6.902 (0.731)	76	3746440	40.0000	31.691	70.00- 130.00	100.00
6.930	6.930 (0.734)	41	6670			0.00- 30.15	0.18
35 Vinyl Acetate					CAS #: 108-05-4		
8.561	8.561 (0.906)	43	5619157	40.0000	53.206	70.00- 130.00	100.00(A)
8.561	8.561 (0.906)	42	418210			0.00- 37.53	7.44
8.561	8.561 (0.906)	86	456604			0.00- 38.89	8.13
14 Isopentane					CAS #: 78-78-4		
5.188	5.188 (0.549)	57	1657513	40.0000	37.933	70.00- 130.00	100.00
5.188	5.188 (0.549)	43	2372447			117.08- 177.08	143.13
5.188	5.188 (0.549)	42	2041007			97.60- 157.60	123.14
63 Methylcyclohexane					CAS #: 108-87-2		
11.243	11.243 (1.190)	83	4559801	40.0000	40.239	70.00- 130.00	100.00(A)
11.243	11.243 (1.190)	98	2244794			19.40- 79.40	49.23
11.243	11.243 (1.190)	55	4343454			66.29- 126.29	95.26
8 Butane					CAS #: 106-97-8		
3.556	3.556 (0.376)	58	373246	40.0000	36.032	70.00- 130.00	100.00
3.529	3.529 (0.374)	43	2781754			657.57- 717.57	745.29
117 Naphthalene					CAS #: 91-20-3		
22.220	22.220 (1.396)	128	13498821	40.0000	46.467	70.00- 130.00	100.00(A)
22.220	22.220 (1.396)	127	1638685			0.00- 42.66	12.14

QC Flag Legend

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

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdy.i
Lab File ID: y022611.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: db
Method File: /chem/msdy.i/y-26feb.b/t14ll0226a.m
Misc Info: 50ppbv->40ppbv

Calibration Date: 26-FEB-2008
Calibration Time: 13:56
Client Smp ID: Level 11
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 Bromochloromethan	420808	252485	589131	369472	-12.20
60 1,4-Difluorobenze	1780063	1068038	2492088	1663457	-6.55
80 Chlorobenzene-d5	1282640	769584	1795696	1198347	-6.57

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 Bromochloromethan	9.45	9.12	9.78	9.45	0.00
60 1,4-Difluorobenze	10.72	10.39	11.05	10.72	0.00
80 Chlorobenzene-d5	15.92	15.59	16.25	15.92	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/msdy.i/y-26feb.b/y022611.d

Date : 26-FEB-2008 16:07

Client ID: Level 11

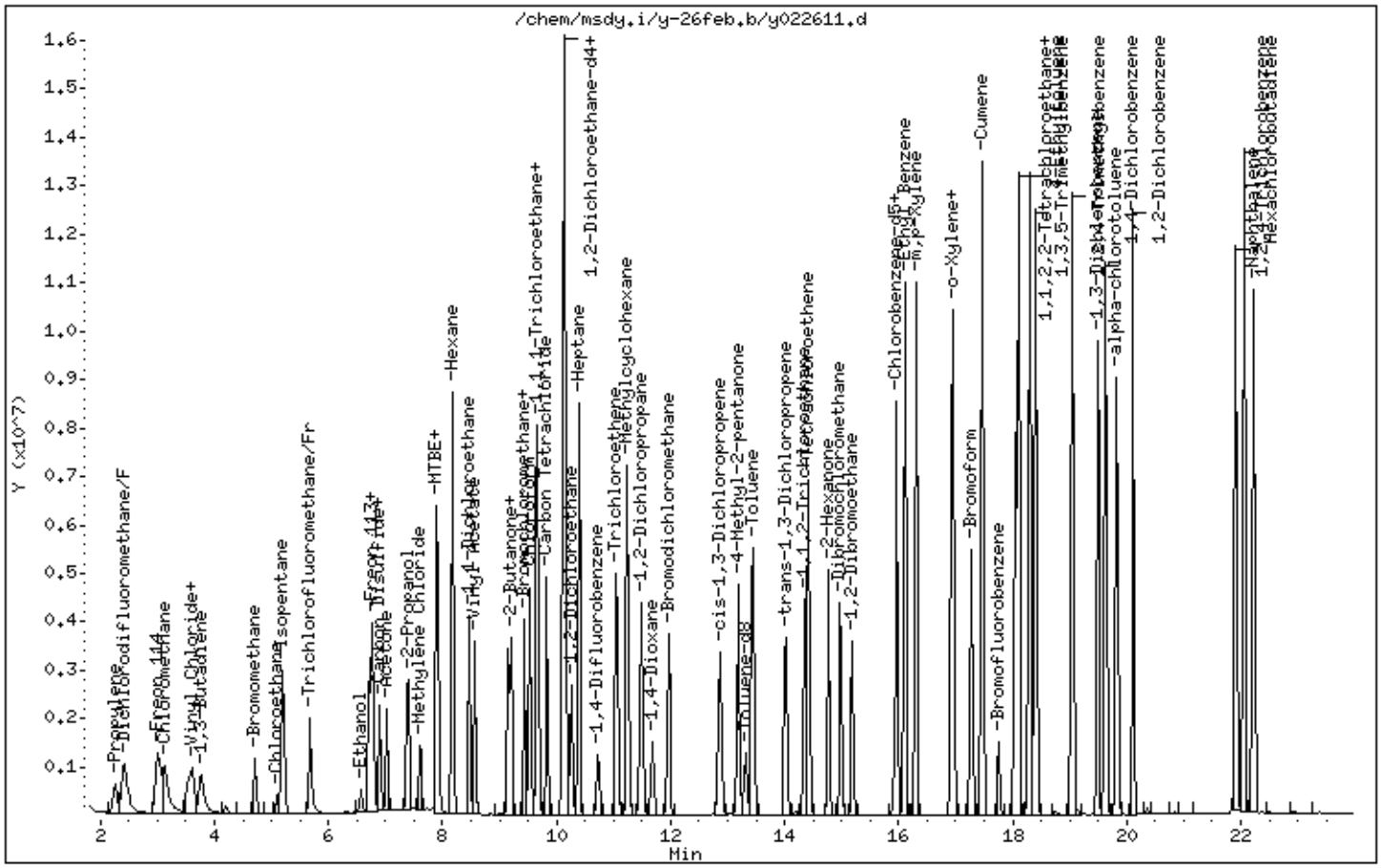
Instrument: msdy.i

Sample Info: 400ml #1576-287 40ppbv

Operator: db

Column phase: RTx-624

Column diameter: 0.32



Air Toxics Ltd.

AMBIENT AIR METHOD TO14/TO15

Data file : /chem/msdy.i/y-11mar.b/y031104.d
Lab Smp Id: ICAL Client Smp ID: Level 12
Inj Date : 11-MAR-2008 16:04
Operator : ej Inst ID: msdy.i
Smp Info : 62.5mL #1576-316
Misc Info : 2.0ppbv->0.25ppbv
Comment :
Method : /chem/msdy.i/y-11mar.b/t14ll0226b.m
Meth Date : 12-Mar-2008 14:34 ejakob Quant Type: ISTD
Cal Date : 11-MAR-2008 16:04 Cal File: y031104.d
Als bottle: 1 Calibration Sample, Level: 12
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: sp1b.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				AMOUNTS				
				CAL-AMT	ON-COL			
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE		RATIO
==	====== ========	====	========	=======	=======	==========		=====
* 47 Bromochloromethane						CAS #: 74-97-5		
9.446	9.446 (1.000)	130	416253	10.0000		70.00- 130.00		100.00
9.446	9.446 (1.000)	128	322650			0.00- 30.00		77.51
9.418	9.418 (1.000)	49	764223			0.00- 30.00		183.60
* 60 1,4-Difluorobenzene						CAS #: 540-36-3		
10.718	10.718 (1.000)	114	1668100	10.0000		70.00- 130.00		100.00
10.718	10.718 (1.000)	88	270432			0.00- 46.62		16.21
* 80 Chlorobenzene-d5						CAS #: 3114-55-4		
15.916	15.916 (1.000)	117	1191425	10.0000		70.00- 130.00		100.00
15.916	15.916 (1.000)	82	687818			0.00- 30.00		57.73
46 2,3-Dimethylpentane						CAS #: 565-59-3		
9.695	9.695 (0.905)	71	17427	0.50000	0.4573	70.00- 130.00		100.00(a)
9.695	9.695 (0.905)	56	53839			0.00- 30.00		308.94
9.695	9.695 (0.905)	43	43812			0.00- 30.00		251.40
108 Butylbenzene						CAS #: 104-51-8		
20.035	20.035 (1.259)	134	51583	0.25000	0.5507	70.00- 130.00		100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
108 Butylbenzene (continued)							
20.035	20.035 (1.259)	91	209886			340.77- 400.77	406.89
20.035	20.035 (1.259)	92	113278			0.00- 30.00	219.60

QC Flag Legend

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

Report Date: 12-Mar-2008 14:35

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdy.i
Lab File ID: y031104.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: ej
Method File: /chem/msdy.i/y-11mar.b/t14ll0226b.m
Misc Info: 2.0ppbv->0.25ppbv

Calibration Date: 11-MAR-2008
Calibration Time: 17:44
Client Smp ID: Level 12
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 Bromochloromethan	424269	254561	593977	416253	-1.89
60 1,4-Difluorobenze	1740856	1044514	2437198	1668100	-4.18
80 Chlorobenzene-d5	1235672	741403	1729941	1191425	-3.58

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 Bromochloromethan	9.45	9.12	9.78	9.45	0.00
60 1,4-Difluorobenze	10.72	10.39	11.05	10.72	0.00
80 Chlorobenzene-d5	15.92	15.59	16.25	15.92	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/msdy.i/y-11mar.b/y031104.d

Date : 11-MAR-2008 16:04

Client ID: Level 12

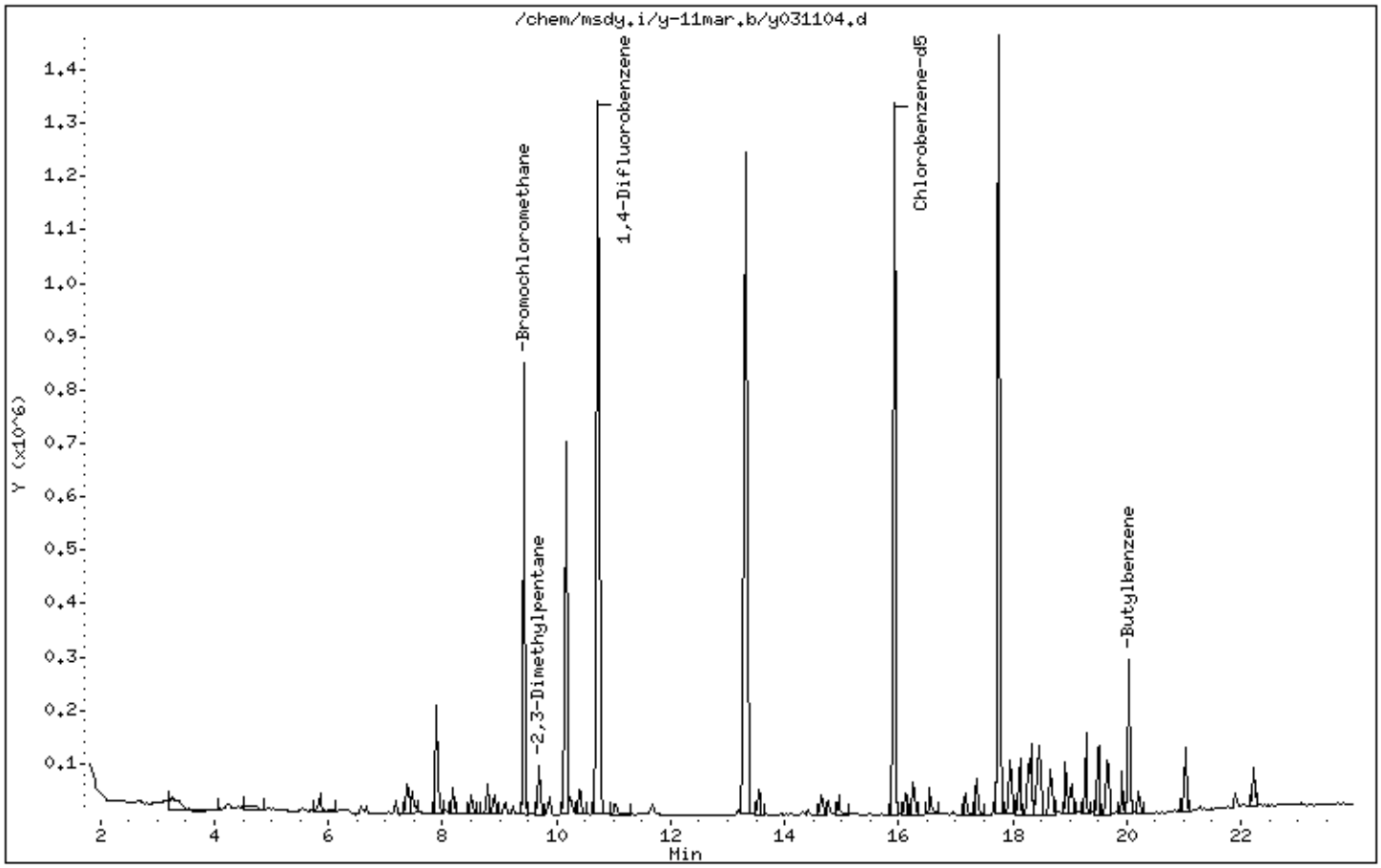
Instrument: msdy.i

Sample Info: 62.5mL #1576-316

Operator: ej

Column phase: RTx-624

Column diameter: 0.32



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: CCV

Lab ID#: 0803156-04A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**y031903**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 3/19/08 10:06 AM**	

Compound	%Recovery
Freon 12	108
Freon 114	100
Vinyl Chloride	82
Bromomethane	106
Chloroethane	88
Freon 11	134 Q
1,1-Dichloroethene	107
Freon 113	121
Methylene Chloride	114
1,1-Dichloroethane	106
cis-1,2-Dichloroethene	102
Chloroform	122
1,1,1-Trichloroethane	108
Carbon Tetrachloride	125
Benzene	110
1,2-Dichloroethane	130
Trichloroethene	122
1,2-Dichloropropane	112
cis-1,3-Dichloropropene	94
Toluene	116
trans-1,3-Dichloropropene	94
1,1,2-Trichloroethane	116
Tetrachloroethene	118
1,2-Dibromoethane (EDB)	120
Chlorobenzene	122
Ethyl Benzene	117
m,p-Xylene	119
o-Xylene	110
Styrene	118
1,1,2,2-Tetrachloroethane	122
1,3,5-Trimethylbenzene	116
1,2,4-Trimethylbenzene	109
1,3-Dichlorobenzene	117
1,4-Dichlorobenzene	118
alpha-Chlorotoluene	78
1,2-Dichlorobenzene	120
1,3-Butadiene	89
Hexane	95
Cyclohexane	97

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: CCV

Lab ID#: 0803156-04A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**y031903**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 3/19/08 10:06 AM**	

Compound	%Recovery
Heptane	116
Bromodichloromethane	118
Dibromochloromethane	122
Cumene	112
Propylbenzene	118
Chloromethane	96
1,2,4-Trichlorobenzene	111
Hexachlorobutadiene	120
Acetone	129
Carbon Disulfide	115
2-Propanol	75
trans-1,2-Dichloroethene	122
2-Butanone (Methyl Ethyl Ketone)	93
Tetrahydrofuran	96
1,4-Dioxane	85
4-Methyl-2-pentanone	95
2-Hexanone	81
Bromoform	119
4-Ethyltoluene	117
Ethanol	85
Methyl tert-butyl ether	83
3-Chloropropene	116
2,2,4-Trimethylpentane	95
Naphthalene	96

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

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

Air Toxics Ltd.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msdy.i Injection Date: 19-MAR-2008 10:06
Lab File ID: y031903.d Init. Cal. Date(s): 26-FEB-2008 12-MAR-2008
Analysis Type: AIR Init. Cal. Times: 10:41 10:12
Lab Sample ID: CCV-1 Quant Type: ISTD
Method: /var/chem/msdy.i/y-19mar.b/t14ll0226b.m

COMPOUND	RRF / AMOUNT	RF5	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	
$ 57 1,2-Dichloroethane-d4	1.47467	1.45968	0.010	1.01624	30.00000	Averaged	
$ 70 Toluene-d8	1.00416	0.99459	0.010	0.95379	30.00000	Averaged	
$ 92 Bromofluorobenzene	0.53923	0.54554	0.010	-1.17083	30.00000	Averaged	
2 Propylene	0.93019	0.89086	0.010	4.22781	30.00000	Averaged	
4 Dichlorodifluoromethane/Fr1	2.89110	3.12203	0.010	-7.98758	30.00000	Averaged	
6 Freon 114	1.82915	1.82672	0.010	0.13245	30.00000	Averaged	
7 Chloromethane	1.43294	1.36889	0.010	4.46961	30.00000	Averaged	
9 Vinyl Chloride	1.28581	1.05769	0.010	17.74144	30.00000	Averaged	
10 1,3-Butadiene	0.89242	0.79812	0.010	10.56687	30.00000	Averaged	
12 Bromomethane	0.66583	0.70535	0.010	-5.93541	30.00000	Averaged	
13 Chloroethane	0.49690	0.43697	0.010	12.06044	30.00000	Averaged	
16 Trichlorofluoromethane/Fr11	2.54108	3.39888	0.010	-33.75723	30.00000	Averaged	<-
17 Ethanol	0.62377	0.53089	0.010	14.89004	30.00000	Averaged	
20 Freon 113	1.57858	1.91092	0.010	-21.05302	30.00000	Averaged	
18 1,1-Dichloroethene	0.65602	0.70435	0.010	-7.36773	30.00000	Averaged	
24 Acetone	2.20764	2.85134	0.010	-29.15787	30.00000	Averaged	
28 2-Propanol	2.31999	1.74452	0.010	24.80474	30.00000	Averaged	
21 Carbon Disulfide	3.22984	3.71067	0.010	-14.88718	30.00000	Averaged	
29 Methylene Chloride	1.02979	1.17574	0.010	-14.17304	30.00000	Averaged	
32 MTBE	3.85437	3.21201	0.010	16.66566	30.00000	Averaged	
33 trans-1,2-Dichloroethene	0.78239	0.95626	0.010	-22.22222	30.00000	Averaged	
34 Hexane	3.00694	2.84460	0.010	5.39901	30.00000	Averaged	
38 1,1-Dichloroethane	2.91574	3.08439	0.010	-5.78410	30.00000	Averaged	
44 2-Butanone	0.81087	0.75156	0.010	7.31518	30.00000	Averaged	
43 cis-1,2-Dichloroethene	0.96624	0.98969	0.010	-2.42727	30.00000	Averaged	
45 Tetrahydrofuran	2.24171	2.14971	0.010	4.10390	30.00000	Averaged	
48 Chloroform	2.76389	3.37825	0.010	-22.22803	30.00000	Averaged	
51 1,1,1-Trichloroethane	3.00930	3.25066	0.010	-8.02022	30.00000	Averaged	
50 Cyclohexane	2.35138	2.27729	0.010	3.15128	30.00000	Averaged	
52 Carbon Tetrachloride	2.25210	2.81725	0.010	-25.09456	30.00000	Averaged	
56 Benzene	1.26673	1.38899	0.010	-9.65150	30.00000	Averaged	
58 1,2-Dichloroethane	0.48578	0.63007	0.010	-29.70132	30.00000	Averaged	
59 Heptane	0.84844	0.98425	0.010	-16.00698	30.00000	Averaged	
61 Trichloroethene	0.48550	0.59008	0.010	-21.53941	30.00000	Averaged	
64 1,2-Dichloropropane	0.44978	0.50455	0.010	-12.17760	30.00000	Averaged	

Air Toxics Ltd.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msdy.i Injection Date: 19-MAR-2008 10:06
Lab File ID: y031903.d Init. Cal. Date(s): 26-FEB-2008 12-MAR-2008
Analysis Type: AIR Init. Cal. Times: 10:41 10:12
Lab Sample ID: CCV-1 Quant Type: ISTD
Method: /var/chem/msdy.i/y-19mar.b/t14ll0226b.m

			MIN		MAX	
COMPOUND	RRF / AMOUNT	RF5	RRF	%D / %DRIFT	%D / %DRIFT	CURVE TYPE
65 1,4-Dioxane	0.21590	0.18288	0.010	15.29233	30.00000	Averaged
66 Bromodichloromethane	0.69369	0.82128	0.010	-18.39351	30.00000	Averaged
67 cis-1,3-Dichloropropene	0.57482	0.54360	0.010	5.43096	30.00000	Averaged
68 4-Methyl-2-pentanone	0.98643	0.94087	0.010	4.61860	30.00000	Averaged
72 Toluene	1.31683	1.52275	0.010	-15.63778	30.00000	Averaged
73 trans-1,3-Dichloropropene	0.78479	0.73583	0.010	6.23891	30.00000	Averaged
74 1,1,2-Trichloroethane	0.64273	0.74811	0.010	-16.39577	30.00000	Averaged
75 Tetrachloroethene	0.78514	0.92687	0.010	-18.05173	30.00000	Averaged
76 2-Hexanone	0.71208	0.57539	0.010	19.19607	30.00000	Averaged
77 Dibromochloromethane	0.86306	1.05527	0.010	-22.27009	30.00000	Averaged
78 1,2-Dibromoethane	0.93347	1.11648	0.010	-19.60532	30.00000	Averaged
81 Chlorobenzene	1.52836	1.86547	0.010	-22.05723	30.00000	Averaged
84 Ethyl Benzene	0.80313	0.94355	0.010	-17.48362	30.00000	Averaged
85 m,p-Xylene	1.01351	1.20207	0.010	-18.60447	30.00000	Averaged
86 o-Xylene	0.95940	1.05219	0.010	-9.67149	30.00000	Averaged
87 Styrene	1.50308	1.77566	0.010	-18.13433	30.00000	Averaged
89 Bromoform	0.70837	0.84290	0.010	-18.99129	30.00000	Averaged
90 Cumene	2.80960	3.16080	0.010	-12.49990	30.00000	Averaged
94 1,1,2,2-Tetrachloroethane	1.38124	1.69102	0.010	-22.42730	30.00000	Averaged
96 Propylbenzene	3.43863	4.06604	0.010	-18.24609	30.00000	Averaged
97 4-Ethyltoluene	2.95505	3.45053	0.010	-16.76713	30.00000	Averaged
98 1,3,5-Trimethylbenzene	2.44343	2.83430	0.010	-15.99696	30.00000	Averaged
102 1,2,4-Trimethylbenzene	2.38750	2.61127	0.010	-9.37239	30.00000	Averaged
105 1,3-Dichlorobenzene	1.54659	1.81552	0.010	-17.38854	30.00000	Averaged
106 1,4-Dichlorobenzene	1.59060	1.87922	0.010	-18.14552	30.00000	Averaged
109 alpha-chlorotoluene	1.85364	1.45312	0.010	21.60718	30.00000	Averaged
112 1,2-Dichlorobenzene	1.50627	1.80115	0.010	-19.57693	30.00000	Averaged
114 1,2,4-Trichlorobenzene	1.05870	1.17150	0.010	-10.65548	30.00000	Averaged
115 Hexachlorobutadiene	0.76292	0.91249	0.010	-19.60491	30.00000	Averaged
55 2,2,4-Trimethylpentane	3.25172	3.09950	0.010	4.68125	30.00000	Averaged
22 3-Chloroprene	3.19961	3.71067	0.010	-15.97261	30.00000	Averaged
35 Vinyl Acetate	2.85842	1.27393	0.010	55.43235	30.00000	Averaged <-
14 Isopentane	1.18265	1.11411	0.010	5.79498	30.00000	Averaged
63 Methylcyclohexane	3.06699	2.96006	0.010	3.48648	40.00000	Averaged
8 Butane	0.28037	0.21505	0.010	23.29702	40.00000	Averaged
117 Naphthalene	2.42422	2.32489	0.010	4.09751	30.00000	Averaged

Air Toxics Ltd.

AMBIENT AIR METHOD TO14/TO15

Data file : /chem/msdy.i/y-19mar.b/y031903.d
Lab Smp Id: CCV-1 Client Smp ID: CCV-1
Inj Date : 19-MAR-2008 10:06
Operator : lmr Inst ID: msdy.i
Smp Info : 50mL #1541-64
Misc Info : 50ppbv-5ppbv
Comment :
Method : /var/chem/msdy.i/y-19mar.b/t14ll0226b.m
Meth Date : 19-Mar-2008 10:20 lrandolp Quant Type: ISTD
Cal Date : 12-MAR-2008 10:12 Cal File: y031126.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT06ENSR.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				AMOUNTS				
				CAL-AMT	ON-COL			
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE		RATIO
==	====== ========	====	========	=======	=======	==========		=====
* 47 Bromochloromethane						CAS #: 74-97-5		
9.446	9.446 (1.000)	130	350664	10.0000		80.00- 120.00		100.00
9.446	9.446 (1.000)	128	278272			0.00- 30.00		79.36
9.418	9.418 (1.000)	49	665897			0.00- 30.00		189.90
* 60 1,4-Difluorobenzene						CAS #: 540-36-3		
10.718	10.718 (1.000)	114	1382074	10.0000		80.00- 120.00		100.00
10.718	10.718 (1.000)	88	224897			0.00- 46.27		16.27
* 80 Chlorobenzene-d5						CAS #: 3114-55-4		
15.916	15.916 (1.000)	117	1046603	10.0000		80.00- 120.00		100.00
15.916	15.916 (1.000)	82	580747			0.00- 30.00		55.49
$ 57 1,2-Dichloroethane-d4						CAS #: 17060-07-0		
10.165	10.165 (1.076)	65	511857	10.0000	9.898	80.00- 120.00		100.00
10.165	10.165 (1.076)	67	281625			24.94- 84.94		55.02
$ 70 Toluene-d8						CAS #: 2037-26-5		
13.317	13.317 (1.242)	98	1374592	10.0000	9.905	80.00- 120.00		100.00
13.317	13.317 (1.242)	70	149849			0.00- 40.90		10.90

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
$ 70 Toluene-d8 (continued)							
13.317	13.317 (1.242)	100	931544			37.77- 97.77	67.77
$ 92 Bromofluorobenzene					CAS #: 460-00-4		
17.768	17.768 (1.116)	174	570963	10.0000	10.117	80.00- 120.00	100.00
17.768	17.768 (1.116)	95	879070			123.96- 183.96	153.96
17.768	17.768 (1.116)	176	557560			67.65- 127.65	97.65
2 Propylene					CAS #: 115-07-1		
2.312	2.312 (0.245)	41	156197	5.00000	4.789	80.00- 120.00	100.00
2.284	2.284 (0.242)	42	108720			38.49- 98.49	69.60
2.312	2.312 (0.245)	39	120273			40.69- 100.69	77.00
4 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
2.450	2.450 (0.259)	85	547392	5.00000	5.399	80.00- 120.00	100.00
2.450	2.450 (0.259)	87	175971			2.15- 62.15	32.15
6 Freon 114					CAS #: 76-14-2		
3.031	3.031 (0.321)	135	320283	5.00000	4.993	80.00- 120.00	100.00
3.031	3.031 (0.321)	137	95603			0.89- 60.89	29.85
7 Chloromethane					CAS #: 74-87-3		
3.169	3.169 (0.336)	50	240010	5.00000	4.776	80.00- 120.00	100.00
3.169	3.169 (0.336)	52	64961			0.95- 60.95	27.07
9 Vinyl Chloride					CAS #: 75-01-4		
3.639	3.639 (0.385)	62	185447	5.00000	4.113	80.00- 120.00	100.00
3.639	3.639 (0.385)	64	58350			1.46- 61.46	31.46
10 1,3-Butadiene					CAS #: 106-99-0		
3.778	3.778 (0.400)	54	139936	5.00000	4.472	80.00- 120.00	100.00
3.778	3.778 (0.400)	39	160929			65.65- 125.65	115.00
12 Bromomethane					CAS #: 74-83-9		
4.745	4.745 (0.502)	94	123670	5.00000	5.297	80.00- 120.00	100.00
4.745	4.745 (0.502)	96	116913			64.54- 124.54	94.54
13 Chloroethane					CAS #: 75-00-3		
5.105	5.105 (0.540)	64	76615	5.00000	4.397	80.00- 120.00	100.00
5.105	5.105 (0.540)	66	19302			1.55- 61.55	25.19
5.105	5.105 (0.540)	49	21311			0.00- 57.55	27.82
16 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
5.685	5.685 (0.602)	101	595933	5.00000	6.688	80.00- 120.00	100.00
5.685	5.685 (0.602)	103	387456			35.02- 95.02	65.02

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
17 Ethanol					CAS #: 64-17-5		
6.542	6.542 (0.693)	45	93082	5.00000	4.255	80.00- 120.00	100.00
6.542	6.542 (0.693)	43	21559			0.00- 48.46	23.16
6.542	6.542 (0.693)	46	33786			10.06- 70.06	36.30
20 Freon 113					CAS #: 76-13-1		
6.764	6.764 (0.716)	151	335045	5.00000	6.053	80.00- 120.00	100.00
6.764	6.764 (0.716)	153	211832			33.22- 93.22	63.22
6.764	6.764 (0.716)	101	442035			98.27- 158.27	131.93
18 1,1-Dichloroethene					CAS #: 75-35-4		
6.736	6.736 (0.713)	98	123495	5.00000	5.368	80.00- 120.00	100.00
6.708	6.708 (0.710)	61	353743			266.10- 326.10	286.44
6.736	6.736 (0.713)	96	193872			128.33- 188.33	156.99
24 Acetone					CAS #: 67-64-1		
7.013	7.013 (0.742)	43	499931	5.00000	6.458	80.00- 120.00	100.00
7.013	7.013 (0.742)	58	148530			4.59- 64.59	29.71
28 2-Propanol					CAS #: 67-63-0		
7.372	7.372 (0.780)	45	305871	5.00000	3.760	80.00- 120.00	100.00
7.372	7.372 (0.780)	43	88479			0.00- 47.61	28.93
7.372	7.372 (0.780)	59	12606			0.00- 33.99	4.12
21 Carbon Disulfide					CAS #: 75-15-0		
6.930	6.930 (0.734)	76	650600	5.00000	5.744	80.00- 120.00	100.00
29 Methylene Chloride					CAS #: 75-09-2		
7.621	7.621 (0.807)	84	206145	5.00000	5.709	80.00- 120.00	100.00
7.593	7.593 (0.804)	49	349217			139.40- 199.40	169.40
7.621	7.621 (0.807)	51	110723			19.70- 79.70	53.71
32 MTBE					CAS #: 1634-04-4		
7.897	7.897 (0.836)	73	563169	5.00000	4.167	80.00- 120.00	100.00
7.897	7.897 (0.836)	57	173861			5.95- 65.95	30.87
7.897	7.897 (0.836)	41	322418			12.94- 72.94	57.25
33 trans-1,2-Dichloroethene					CAS #: 156-60-5		
7.897	7.897 (0.836)	98	167663	5.00000	6.111	80.00- 120.00	100.00
7.897	7.897 (0.836)	61	442510			232.38- 292.38	263.93
7.897	7.897 (0.836)	96	274755			122.68- 182.68	163.87
34 Hexane					CAS #: 110-54-3		
8.174	8.174 (0.865)	57	498749	5.00000	4.730	80.00- 120.00	100.00
8.174	8.174 (0.865)	43	357866			34.58- 94.58	71.75
8.174	8.174 (0.865)	86	80101			0.00- 45.61	16.06

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
38 1,1-Dichloroethane					CAS #: 75-34-3		
8.478	8.478 (0.898)	63	540792	5.00000	5.289	80.00- 120.00	100.00
8.478	8.478 (0.898)	65	165722			0.64- 60.64	30.64
44 2-Butanone					CAS #: 78-93-3		
9.197	9.197 (0.974)	72	131772	5.00000	4.634	80.00- 120.00	100.00
9.197	9.197 (0.974)	43	668713			477.48- 537.48	507.48
9.197	9.197 (0.974)	57	48407			5.29- 65.29	36.74
43 cis-1,2-Dichloroethene					CAS #: 156-59-2		
9.142	9.142 (0.968)	98	173524	5.00000	5.121	80.00- 120.00	100.00
9.142	9.142 (0.968)	61	393947			197.03- 257.03	227.03
9.142	9.142 (0.968)	96	271671			126.56- 186.56	156.56
45 Tetrahydrofuran					CAS #: 109-99-9		
9.418	9.418 (0.997)	42	376913	5.00000	4.795	80.00- 120.00	100.00
9.446	9.446 (1.000)	71	112427			0.78- 60.78	29.83
9.446	9.446 (1.000)	72	121422			4.38- 64.38	32.21
48 Chloroform					CAS #: 67-66-3		
9.529	9.529 (1.009)	83	592316	5.00000	6.111	80.00- 120.00	100.00
9.529	9.529 (1.009)	85	393035			36.36- 96.36	66.36
51 1,1,1-Trichloroethane					CAS #: 71-55-6		
9.667	9.667 (1.023)	97	569944	5.00000	5.401	80.00- 120.00	100.00
9.667	9.667 (1.023)	99	367702			34.52- 94.52	64.52
50 Cyclohexane					CAS #: 110-82-7		
9.667	9.667 (1.023)	84	399281	5.00000	4.842	80.00- 120.00	100.00
9.639	9.639 (1.020)	56	554001			112.88- 172.88	138.75
9.639	9.639 (1.020)	41	320571			42.36- 102.36	80.29
52 Carbon Tetrachloride					CAS #: 56-23-5		
9.833	9.833 (1.041)	119	493954	5.00000	6.255	80.00- 120.00	100.00
9.833	9.833 (1.041)	117	512951			73.85- 133.85	103.85
56 Benzene					CAS #: 71-43-2		
10.137	10.137 (0.946)	78	959842	5.00000	5.482	80.00- 120.00	100.00
10.137	10.137 (0.946)	77	223311			0.00- 53.10	23.27
58 1,2-Dichloroethane					CAS #: 107-06-2		
10.275	10.275 (0.959)	62	435399	5.00000	6.485	80.00- 120.00	100.00
10.275	10.275 (0.959)	64	137292			1.17- 61.17	31.53
59 Heptane					CAS #: 142-82-5		
10.386	10.386 (0.969)	43	680150	5.00000	5.800	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
	59 Heptane (continued)						
10.386	10.386 (0.969)	57	331438			22.34- 82.34	48.73
10.386	10.386 (0.969)	100	102469			0.00- 46.30	15.07
	61 Trichloroethene				CAS #: 79-01-6		
11.049	11.049 (1.031)	130	407767	5.00000	6.077	80.00- 120.00	100.00
11.049	11.049 (1.031)	95	406987			70.30- 130.30	99.81
11.049	11.049 (1.031)	97	269861			35.09- 95.09	66.18
	64 1,2-Dichloropropane				CAS #: 78-87-5		
11.492	11.492 (1.072)	63	348666	5.00000	5.609	80.00- 120.00	100.00
11.492	11.492 (1.072)	62	262837			45.38- 105.38	75.38
11.492	11.492 (1.072)	41	247076			40.86- 100.86	70.86
	65 1,4-Dioxane				CAS #: 123-91-1		
11.685	11.685 (1.090)	88	126377	5.00000	4.235	80.00- 120.00	100.00
11.685	11.685 (1.090)	58	107313			54.91- 114.91	84.91
11.685	11.685 (1.090)	57	35605			0.00- 56.59	28.17
	66 Bromodichloromethane				CAS #: 75-27-4		
11.962	11.962 (1.116)	83	567537	5.00000	5.920	80.00- 120.00	100.00
11.962	11.962 (1.116)	85	359633			33.37- 93.37	63.37
	67 cis-1,3-Dichloropropene				CAS #: 10061-01-5		
12.874	12.874 (1.201)	75	375647	5.00000	4.728	80.00- 120.00	100.00
12.874	12.874 (1.201)	77	116518			1.02- 61.02	31.02
12.874	12.874 (1.201)	39	223142			29.40- 89.40	59.40
	68 4-Methyl-2-pentanone				CAS #: 108-10-1		
13.178	13.178 (1.230)	43	650175	5.00000	4.769	80.00- 120.00	100.00
13.178	13.178 (1.230)	58	221114			9.71- 69.71	34.01
13.178	13.178 (1.230)	85	85578			0.00- 45.16	13.16
	72 Toluene				CAS #: 108-88-3		
13.455	13.455 (1.255)	91	1052275	5.00000	5.782	80.00- 120.00	100.00
13.455	13.455 (1.255)	92	633870			30.24- 90.24	60.24
	73 trans-1,3-Dichloropropene				CAS #: 10061-02-6		
14.035	14.035 (0.882)	75	385062	5.00000	4.688	80.00- 120.00	100.00
14.035	14.035 (0.882)	77	120776			1.37- 61.37	31.37
14.008	14.008 (0.880)	39	231330			30.08- 90.08	60.08
	74 1,1,2-Trichloroethane				CAS #: 79-00-5		
14.340	14.340 (0.901)	97	391487	5.00000	5.820	80.00- 120.00	100.00
14.340	14.340 (0.901)	99	242948			32.06- 92.06	62.06
14.340	14.340 (0.901)	83	332674			54.98- 114.98	84.98

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
75 Tetrachloroethene					CAS #: 127-18-4		
14.423	14.423 (0.906)	166	485031	5.00000	5.902	80.00- 120.00	100.00
14.423	14.423 (0.906)	129	384418			49.26- 109.26	79.26
14.423	14.423 (0.906)	131	371906			46.68- 106.68	76.68
76 2-Hexanone					CAS #: 591-78-6		
14.782	14.782 (0.929)	58	301100	5.00000	4.040	80.00- 120.00	100.00
14.782	14.782 (0.929)	43	597724			168.51- 228.51	198.51
14.782	14.782 (0.929)	100	55728			0.00- 48.91	18.51
77 Dibromochloromethane					CAS #: 124-48-1		
14.976	14.976 (0.941)	129	552223	5.00000	6.114	80.00- 120.00	100.00
14.976	14.976 (0.941)	127	430588			49.01- 109.01	77.97
15.003	15.003 (0.943)	208	25301			0.00- 34.90	4.58
78 1,2-Dibromoethane					CAS #: 106-93-4		
15.197	15.197 (0.955)	107	584256	5.00000	5.980	80.00- 120.00	100.00
15.197	15.197 (0.955)	109	553035			64.66- 124.66	94.66
81 Chlorobenzene					CAS #: 108-90-7		
15.971	15.971 (1.003)	112	976205	5.00000	6.103	80.00- 120.00	100.00
15.971	15.971 (1.003)	114	305488			1.29- 61.29	31.29
15.971	15.971 (1.003)	77	559496			27.31- 87.31	57.31
84 Ethyl Benzene					CAS #: 100-41-4		
16.109	16.109 (1.012)	106	493761	5.00000	5.874	80.00- 120.00	100.00
16.109	16.109 (1.012)	91	1549972			290.46- 350.46	313.91
85 m,p-Xylene					CAS #: 108-38-3		
16.303	16.303 (1.024)	106	629044	5.00000	5.930	80.00- 120.00	100.00
16.303	16.303 (1.024)	91	1231500			176.36- 236.36	195.77
86 o-Xylene					CAS #: 95-47-6		
16.939	16.939 (1.064)	106	550613	5.00000	5.484	80.00- 120.00	100.00
16.911	16.911 (1.063)	91	1170024			182.49- 242.49	212.49
87 Styrene					CAS #: 100-42-5		
16.966	16.966 (1.066)	104	929203	5.00000	5.907	80.00- 120.00	100.00
16.966	16.966 (1.066)	78	450133			18.44- 78.44	48.44
89 Bromoform					CAS #: 75-25-2		
17.270	17.270 (1.085)	173	441092	5.00000	5.950	80.00- 120.00	100.00
17.270	17.270 (1.085)	171	229064			21.93- 81.93	51.93
90 Cumene					CAS #: 98-82-8		
17.464	17.464 (1.097)	105	1654051	5.00000	5.625	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
90 Cumene (continued)							
17.464	17.464 (1.097)	120	464480			0.00- 58.08	28.08
94 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
18.045	18.045 (1.134)	83	884911	5.00000	6.121	80.00- 120.00	100.00
18.045	18.045 (1.134)	85	568792			34.28- 94.28	64.28
96 Propylbenzene					CAS #: 103-65-1		
18.100	18.100 (1.137)	91	2127765	5.00000	5.912	80.00- 120.00	100.00
18.100	18.100 (1.137)	120	498572			0.00- 52.67	23.43
97 4-Ethyltoluene					CAS #: 622-96-8		
18.293	18.293 (1.149)	105	1805667	5.00000	5.838	80.00- 120.00	100.00
18.293	18.293 (1.149)	120	554862			0.73- 60.73	30.73
98 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
18.404	18.404 (1.156)	105	1483194	5.00000	5.800	80.00- 120.00	100.00
18.404	18.404 (1.156)	120	785674			22.97- 82.97	52.97
102 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
19.040	19.040 (1.196)	105	1366481	5.00000	5.469	80.00- 120.00	100.00
19.040	19.040 (1.196)	120	644995			17.20- 77.20	47.20
105 1,3-Dichlorobenzene					CAS #: 541-73-1		
19.482	19.482 (1.224)	146	950064	5.00000	5.869	80.00- 120.00	100.00
19.482	19.482 (1.224)	148	617549			33.25- 93.25	65.00
19.482	19.482 (1.224)	111	402314			13.08- 73.08	42.35
106 1,4-Dichlorobenzene					CAS #: 106-46-7		
19.621	19.621 (1.233)	146	983399	5.00000	5.907	80.00- 120.00	100.00
19.621	19.621 (1.233)	148	613916			33.07- 93.07	62.43
19.621	19.621 (1.233)	111	395827			12.18- 72.18	40.25
109 alpha-chlorotoluene					CAS #: 100-44-7		
19.814	19.814 (1.245)	91	760422	5.00000	3.920	80.00- 120.00	100.00
19.842	19.842 (1.247)	126	153319			0.00- 50.13	20.16
112 1,2-Dichlorobenzene					CAS #: 95-50-1		
20.118	20.118 (1.264)	146	942545	5.00000	5.979	80.00- 120.00	100.00
20.118	20.118 (1.264)	148	602696			33.94- 93.94	63.94
20.118	20.118 (1.264)	111	413392			13.86- 73.86	43.86
114 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
21.916	21.916 (1.377)	180	613050	5.00000	5.533	80.00- 120.00	100.00
21.916	21.916 (1.377)	182	583478			65.18- 125.18	95.18

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
115 Hexachlorobutadiene					CAS #: 87-68-3		
22.054	22.054 (1.386)	225	477508	5.00000	5.980	80.00- 120.00	100.00
22.054	22.054 (1.386)	223	305516			32.68- 92.68	63.98
55 2,2,4-Trimethylpentane					CAS #: 540-84-1		
10.137	10.137 (1.073)	56	543441	5.00000	4.766	80.00- 120.00	100.00
10.137	10.137 (1.073)	99	82731			0.00- 44.97	15.22
10.137	10.137 (1.073)	41	449590			41.28- 101.28	82.73
22 3-Chloroprene					CAS #: 107-05-1		
6.930	6.930 (0.734)	76	650600	5.00000	5.799	80.00- 120.00	100.00
6.930	6.930 (0.734)	41	310			0.00- 30.15	0.05
35 Vinyl Acetate					CAS #: 108-05-4		
8.561	8.561 (0.906)	43	223361	5.00000	2.228	80.00- 120.00	100.00
8.561	8.561 (0.906)	42	19544			0.00- 37.53	8.75
8.561	8.561 (0.906)	86	19214			0.00- 38.89	8.60
14 Isopentane					CAS #: 78-78-4		
5.215	5.215 (0.552)	57	195340	5.00000	4.710	80.00- 120.00	100.00
5.215	5.215 (0.552)	43	309869			117.08- 177.08	158.63
5.215	5.215 (0.552)	42	287881			97.60- 157.60	147.37
63 Methylcyclohexane					CAS #: 108-87-2		
11.243	11.243 (1.190)	83	518993	5.00000	4.826	80.00- 120.00	100.00
11.243	11.243 (1.190)	98	267707			19.40- 79.40	51.58
11.243	11.243 (1.190)	55	512385			66.29- 126.29	98.73
8 Butane					CAS #: 106-97-8		
3.556	3.556 (0.376)	58	37705	5.00000	3.835	80.00- 120.00	100.00
3.556	3.556 (0.376)	43	302570			657.57- 717.57	802.47
117 Naphthalene					CAS #: 91-20-3		
22.220	22.220 (1.396)	128	1216616	5.00000	4.795	80.00- 120.00	100.00
22.220	22.220 (1.396)	127	147012			0.00- 42.66	12.08

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdy.i
Lab File ID: y031903.d
Lab Smp Id: CCV-1
Analysis Type: VOA
Quant Type: ISTD
Operator: lmr
Method File: /var/chem/msdy.i/y-19mar.b/t14ll0226b.m
Misc Info: 50ppbv-5ppbv

Calibration Date: 19-MAR-2008
Calibration Time: 10:06
Client Smp ID: CCV-1
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 Bromochloromethan	350664	210398	490930	350664	0.00
60 1,4-Difluorobenze	1382074	829244	1934904	1382074	0.00
80 Chlorobenzene-d5	1046603	627962	1465244	1046603	0.00

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 Bromochloromethan	9.45	9.12	9.78	9.45	0.00
60 1,4-Difluorobenze	10.72	10.39	11.05	10.72	0.00
80 Chlorobenzene-d5	15.92	15.59	16.25	15.92	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/msdy.i/y-19mar.b/y031903.d

Date : 19-MAR-2008 10:06

Client ID: CCV-1

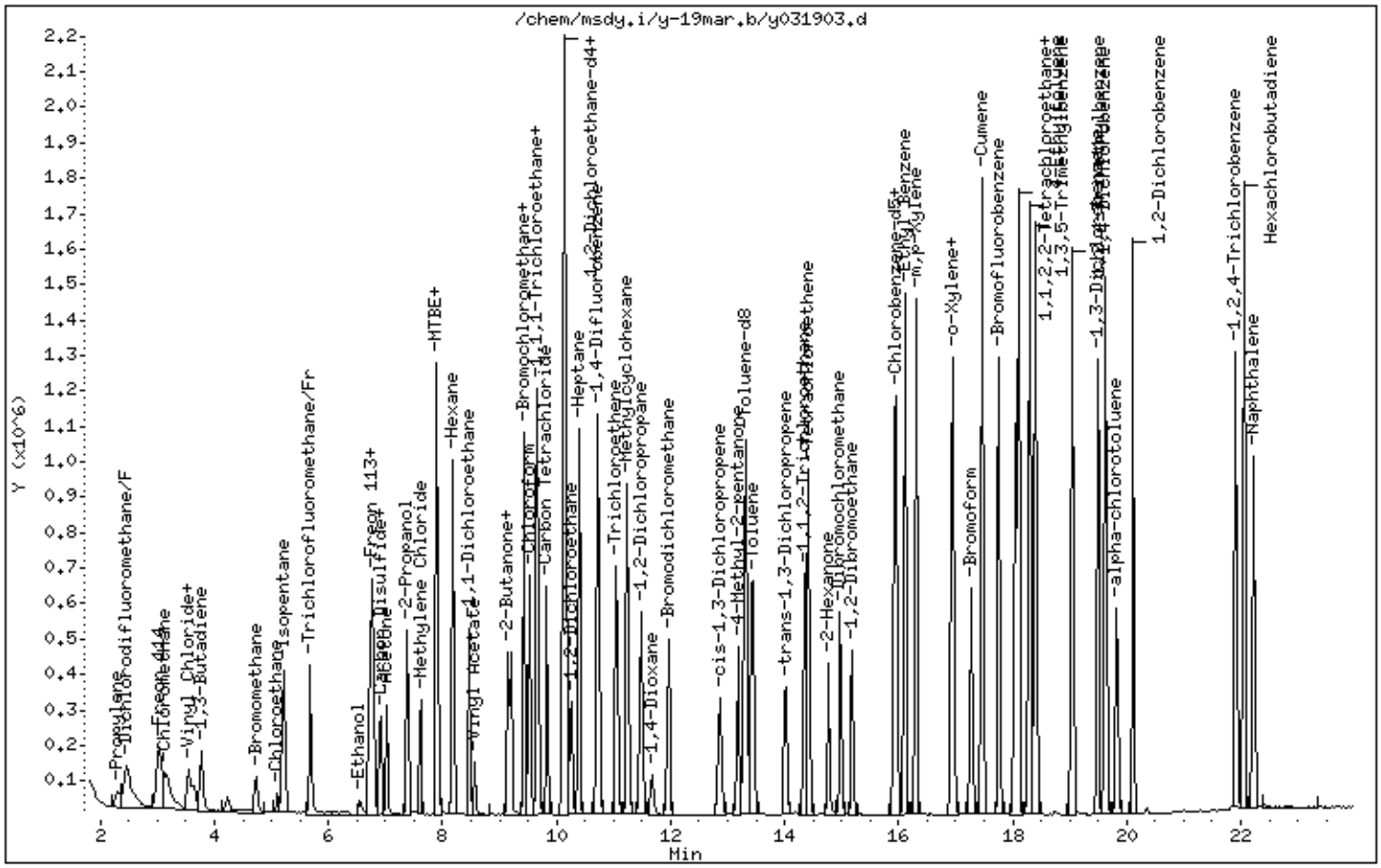
Instrument: msdy.i

Sample Info: 50mL #1541-64

Operator: lmr

Column phase: RTx-624

Column diameter: 0.32



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: LCS

Lab ID#: 0803156-05A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**y031904**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 3/19/08 10:39 AM**	

Compound	%Recovery
Freon 12	97
Freon 114	86
Vinyl Chloride	80
Bromomethane	99
Chloroethane	82
Freon 11	124
1,1-Dichloroethene	110
Freon 113	121
Methylene Chloride	114
1,1-Dichloroethane	102
cis-1,2-Dichloroethene	98
Chloroform	113
1,1,1-Trichloroethane	100
Carbon Tetrachloride	118
Benzene	103
1,2-Dichloroethane	123
Trichloroethene	114
1,2-Dichloropropane	109
cis-1,3-Dichloropropene	86
Toluene	113
trans-1,3-Dichloropropene	90
1,1,2-Trichloroethane	110
Tetrachloroethene	111
1,2-Dibromoethane (EDB)	107
Chlorobenzene	113
Ethyl Benzene	107
m,p-Xylene	107
o-Xylene	102
Styrene	106
1,1,2,2-Tetrachloroethane	114
1,3,5-Trimethylbenzene	107
1,2,4-Trimethylbenzene	99
1,3-Dichlorobenzene	111
1,4-Dichlorobenzene	109
alpha-Chlorotoluene	71
1,2-Dichlorobenzene	110
1,3-Butadiene	82
Hexane	89
Cyclohexane	91

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: LCS

Lab ID#: 0803156-05A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**y031904**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 3/19/08 10:39 AM**	

Compound	%Recovery
Heptane	112
Bromodichloromethane	112
Dibromochloromethane	113
Cumene	107
Propylbenzene	111
Chloromethane	87
1,2,4-Trichlorobenzene	107
Hexachlorobutadiene	108
Acetone	113
Carbon Disulfide	105
2-Propanol	82
trans-1,2-Dichloroethene	112
2-Butanone (Methyl Ethyl Ketone)	81
Tetrahydrofuran	87
1,4-Dioxane	80
4-Methyl-2-pentanone	92
2-Hexanone	76
Bromoform	112
4-Ethyltoluene	108
Ethanol	66
Methyl tert-butyl ether	81
3-Chloropropene	106
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	97	70-130
4-Bromofluorobenzene	100	70-130

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: y-19mar
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: LCS-1 Client Smp ID: LCS-1
Level: LOW Operator: lmr
Data Type: MS DATA SampleType: LCS
SpikeList File: SpectraENSR.spk Quant Type: ISTD
Sublist File: AT06ENSR.sub
Method File: /var/chem/msdy.i/y-19mar.b/t14ll0226b.m
Misc Info: 50ppbv-5ppbv

SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
4 Dichlorodifluorome	5.000	4.833	96.66	70-130
6 Freon 114	5.000	4.311	86.21	70-130
7 Chloromethane	5.000	4.338	86.76	70-130
9 Vinyl Chloride	5.000	3.986	79.73	70-130
10 1,3-Butadiene	5.000	4.076	81.53	60-140
12 Bromomethane	5.000	4.941	98.83	70-130
13 Chloroethane	5.000	4.107	82.13	70-130
16 Trichlorofluoromet	5.000	6.225	124.51	70-130
17 Ethanol	5.000	3.306	66.12	60-140
20 Freon 113	5.000	6.043	120.85	70-130
24 Acetone	5.000	5.640	112.81	60-140
18 1,1-Dichloroethene	5.000	5.528	110.56	70-130
21 Carbon Disulfide	5.000	5.245	104.90	60-140
28 2-Propanol	5.000	4.128	82.56	60-140
29 Methylene Chloride	5.000	5.728	114.56	70-130
32 MTBE	5.000	4.073	81.47	60-140
33 trans-1,2-Dichloro	5.000	5.603	112.07	60-140
34 Hexane	5.000	4.469	89.37	60-140
38 1,1-Dichloroethane	5.000	5.127	102.54	70-130
43 cis-1,2-Dichloroet	5.000	4.900	98.00	70-130
44 2-Butanone	5.000	4.053	81.06	60-140
45 Tetrahydrofuran	5.000	4.349	86.99	60-140
48 Chloroform	5.000	5.657	113.14	70-130
50 Cyclohexane	5.000	4.548	90.96	60-140
51 1,1,1-Trichloroeth	5.000	4.995	99.91	70-130
52 Carbon Tetrachlori	5.000	5.926	118.52	70-130
56 Benzene	5.000	5.152	103.03	70-130
59 Heptane	5.000	5.576	111.53	60-140
58 1,2-Dichloroethane	5.000	6.141	122.81	70-130
61 Trichloroethene	5.000	5.727	114.54	70-130
64 1,2-Dichloropropan	5.000	5.439	108.78	70-130
65 1,4-Dioxane	5.000	4.015	80.31	60-140
66 Bromodichlorometha	5.000	5.576	111.53	60-140

SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
67 cis-1,3-Dichloropr	5.000	4.313	86.26	70-130
68 4-Methyl-2-pentano	5.000	4.602	92.03	60-140
72 Toluene	5.000	5.640	112.80	70-130
73 trans-1,3-Dichloro	5.000	4.510	90.21	70-130
74 1,1,2-Trichloroeth	5.000	5.490	109.79	70-130
75 Tetrachloroethene	5.000	5.561	111.23	70-130
76 2-Hexanone	5.000	3.824	76.48	60-140
77 Dibromochlorometha	5.000	5.639	112.78	60-140
78 1,2-Dibromoethane	5.000	5.332	106.65	70-130
81 Chlorobenzene	5.000	5.672	113.44	70-130
84 Ethyl Benzene	5.000	5.373	107.46	70-130
85 m,p-Xylene	5.000	5.355	107.10	70-130
86 o-Xylene	5.000	5.096	101.92	70-130
87 Styrene	5.000	5.279	105.59	70-130
89 Bromoform	5.000	5.624	112.48	60-140
90 Cumene	5.000	5.344	106.88	60-140
94 1,1,2,2-Tetrachlor	5.000	5.694	113.89	70-130
96 Propylbenzene	5.000	5.569	111.39	60-140
97 4-Ethyltoluene	5.000	5.424	108.48	60-140
98 1,3,5-Trimethylben	5.000	5.330	106.59	70-130
102 1,2,4-Trimethylben	5.000	4.937	98.73	70-130
105 1,3-Dichlorobenzen	5.000	5.541	110.82	70-130
106 1,4-Dichlorobenzen	5.000	5.441	108.82	70-130
109 alpha-chlorotoluen	5.000	3.572	71.44	70-130
112 1,2-Dichlorobenzen	5.000	5.480	109.59	70-130
114 1,2,4-Trichloroben	5.000	5.346	106.92	70-130
115 Hexachlorobutadien	5.000	5.376	107.52	70-130
55 2,2,4-Trimethylpen	5.000	4.484	89.67	60-140
14 Isopentane	5.000	4.195	83.90	60-140
22 3-Chloroprene	5.000	5.295	105.89	60-140
35 Vinyl Acetate	5.000	2.051	41.03*	60-140
63 Methylcyclohexane	5.000	4.534	90.67	60-140
117 Naphthalene	5.000	4.418	88.37	60-140

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 57 1,2-Dichloroethane	10.000	9.711	97.11	70-130
$ 70 Toluene-d8	10.000	9.939	99.39	70-130
$ 92 Bromofluorobenzene	10.000	10.012	100.12	70-130

Air Toxics Ltd.

AMBIENT AIR METHOD TO14/TO15

Data file : /chem/msdy.i/y-19mar.b/y031904.d
Lab Smp Id: LCS-1 Client Smp ID: LCS-1
Inj Date : 19-MAR-2008 10:39
Operator : lmr Inst ID: msdy.i
Smp Info : 50mL #1576-253
Misc Info : 50ppbv-5ppbv
Comment :
Method : /var/chem/msdy.i/y-19mar.b/t14ll0226b.m
Meth Date : 19-Mar-2008 10:20 lrandolp Quant Type: ISTD
Cal Date : 12-MAR-2008 10:12 Cal File: y031126.d
Als bottle: 1 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT06ENSR.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				CONCENTRATIONS ON-COL	CONCENTRATIONS FINAL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
* 47 Bromochloromethane						CAS #: 74-97-5	
9.446	9.446 (1.000)	130	335122	10.0000		80.00- 120.00	100.00
9.446	9.446 (1.000)	128	259024			0.00- 30.00	77.29
9.418	9.418 (1.000)	49	620924			0.00- 30.00	185.28
* 60 1,4-Difluorobenzene						CAS #: 540-36-3	
10.718	10.718 (1.000)	114	1309880	10.0000		80.00- 120.00	100.00
10.718	10.718 (1.000)	88	217209			0.00- 46.27	16.58
* 80 Chlorobenzene-d5						CAS #: 3114-55-4	
15.916	15.916 (1.000)	117	979227	10.0000		80.00- 120.00	100.00
15.916	15.916 (1.000)	82	556278			0.00- 30.00	56.81
$ 57 1,2-Dichloroethane-d4						CAS #: 17060-07-0	
10.165	10.165 (1.076)	65	479927	9.71133	9.711	80.00- 120.00	100.00
10.165	10.165 (1.076)	67	264167			24.94- 84.94	55.04
$ 70 Toluene-d8						CAS #: 2037-26-5	
13.317	13.317 (1.242)	98	1307374	9.93948	9.939	80.00- 120.00	100.00
13.317	13.317 (1.242)	70	142224			0.00- 40.90	10.88

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
$ 70 Toluene-d8 (continued)							
13.317	13.317 (1.242)	100	867632			37.77- 97.77	66.36
$ 92 Bromofluorobenzene					CAS #: 460-00-4		
17.768	17.768 (1.116)	174	528635	10.0116	10.012	80.00- 120.00	100.00
17.768	17.768 (1.116)	95	824571			123.96- 183.96	155.98
17.768	17.768 (1.116)	176	507635			67.65- 127.65	96.03
2 Propylene					CAS #: 115-07-1		
2.285	2.312 (0.242)	41	142245	4.56312	4.563	80.00- 120.00	100.00
2.312	2.284 (0.245)	42	100639			38.49- 98.49	70.75
2.285	2.312 (0.242)	39	112138			40.69- 100.69	78.83
4 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
2.451	2.450 (0.259)	85	468236	4.83280	4.833	80.00- 120.00	100.00
2.451	2.450 (0.259)	87	151880			2.15- 62.15	32.44
6 Freon 114					CAS #: 76-14-2		
3.031	3.031 (0.321)	135	264238	4.31066	4.311	80.00- 120.00	100.00
3.031	3.031 (0.321)	137	74255			0.89- 60.89	28.10
7 Chloromethane					CAS #: 74-87-3		
3.169	3.169 (0.336)	50	208323	4.33818	4.338	80.00- 120.00	100.00
3.169	3.169 (0.336)	52	61421			0.95- 60.95	29.48
9 Vinyl Chloride					CAS #: 75-01-4		
3.639	3.639 (0.385)	62	171778	3.98646	3.986	80.00- 120.00	100.00
3.639	3.639 (0.385)	64	50925			1.46- 61.46	29.65
10 1,3-Butadiene					CAS #: 106-99-0		
3.778	3.778 (0.400)	54	121909	4.07627	4.076	80.00- 120.00	100.00
3.778	3.778 (0.400)	39	127928			65.65- 125.65	104.94
12 Bromomethane					CAS #: 74-83-9		
4.745	4.745 (0.502)	94	110260	4.94143	4.941	80.00- 120.00	100.00
4.745	4.745 (0.502)	96	105646			64.54- 124.54	95.82
13 Chloroethane					CAS #: 75-00-3		
5.105	5.105 (0.540)	64	68385	4.10667	4.107	80.00- 120.00	100.00
5.105	5.105 (0.540)	66	20063			1.55- 61.55	29.34
5.105	5.105 (0.540)	49	20691			0.00- 57.55	30.26
16 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
5.686	5.685 (0.602)	101	530141	6.22543	6.225	80.00- 120.00	100.00
5.686	5.685 (0.602)	103	324626			35.02- 95.02	61.23

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
17 Ethanol					CAS #: 64-17-5		
6.570	6.542 (0.696)	45	69105	3.30584	3.306	80.00- 120.00	100.00
6.570	6.542 (0.696)	43	20438			0.00- 48.46	29.58
6.570	6.542 (0.696)	46	33231			10.06- 70.06	48.09
20 Freon 113					CAS #: 76-13-1		
6.764	6.764 (0.716)	151	319667	6.04267	6.043	80.00- 120.00	100.00
6.764	6.764 (0.716)	153	201389			33.22- 93.22	63.00
6.764	6.764 (0.716)	101	426591			98.27- 158.27	133.45
18 1,1-Dichloroethene					CAS #: 75-35-4		
6.736	6.736 (0.713)	98	121528	5.52788	5.528	80.00- 120.00	100.00
6.709	6.708 (0.710)	61	347588			266.10- 326.10	286.01
6.736	6.736 (0.713)	96	184631			128.33- 188.33	151.92
24 Acetone					CAS #: 67-64-1		
7.013	7.013 (0.742)	43	417288	5.64034	5.640	80.00- 120.00	100.00
7.013	7.013 (0.742)	58	122540			4.59- 64.59	29.37
28 2-Propanol					CAS #: 67-63-0		
7.372	7.372 (0.780)	45	320936	4.12790	4.128	80.00- 120.00	100.00
7.372	7.372 (0.780)	43	88680			0.00- 47.61	27.63
7.372	7.372 (0.780)	59	13381			0.00- 33.99	4.17
21 Carbon Disulfide					CAS #: 75-15-0		
6.930	6.930 (0.734)	76	567722	5.24507	5.245	80.00- 120.00	100.00
29 Methylene Chloride					CAS #: 75-09-2		
7.621	7.621 (0.807)	84	197684	5.72823	5.728	80.00- 120.00	100.00
7.621	7.593 (0.807)	49	340350			139.40- 199.40	172.17
7.621	7.621 (0.807)	51	104858			19.70- 79.70	53.04
32 MTBE					CAS #: 1634-04-4		
7.897	7.897 (0.836)	73	526145	4.07332	4.073	80.00- 120.00	100.00
7.897	7.897 (0.836)	57	179744			5.95- 65.95	34.16
7.897	7.897 (0.836)	41	356369			12.94- 72.94	67.73
33 trans-1,2-Dichloroethene					CAS #: 156-60-5		
7.897	7.897 (0.836)	98	146917	5.60329	5.603	80.00- 120.00	100.00
7.897	7.897 (0.836)	61	384912			232.38- 292.38	261.99
7.897	7.897 (0.836)	96	239766			122.68- 182.68	163.20
34 Hexane					CAS #: 110-54-3		
8.174	8.174 (0.865)	57	450310	4.46872	4.469	80.00- 120.00	100.00
8.174	8.174 (0.865)	43	317200			34.58- 94.58	70.44
8.174	8.174 (0.865)	86	65960			0.00- 45.61	14.65

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
38 1,1-Dichloroethane					CAS #: 75-34-3		
8.478	8.478 (0.898)	63	500986	5.12713	5.127	80.00- 120.00	100.00
8.478	8.478 (0.898)	65	157598			0.64- 60.64	31.46
44 2-Butanone					CAS #: 78-93-3		
9.197	9.197 (0.974)	72	110137	4.05300	4.053	80.00- 120.00	100.00
9.197	9.197 (0.974)	43	597153			477.48- 537.48	542.19
9.197	9.197 (0.974)	57	41790			5.29- 65.29	37.94
43 cis-1,2-Dichloroethene					CAS #: 156-59-2		
9.142	9.142 (0.968)	98	158658	4.89978	4.900	80.00- 120.00	100.00
9.142	9.142 (0.968)	61	358584			197.03- 257.03	226.01
9.142	9.142 (0.968)	96	249324			126.56- 186.56	157.15
45 Tetrahydrofuran					CAS #: 109-99-9		
9.418	9.418 (0.997)	42	326743	4.34935	4.349	80.00- 120.00	100.00
9.446	9.446 (1.000)	71	93057			0.78- 60.78	28.48
9.446	9.446 (1.000)	72	104023			4.38- 64.38	31.84
48 Chloroform					CAS #: 67-66-3		
9.529	9.529 (1.009)	83	523971	5.65696	5.657	80.00- 120.00	100.00
9.529	9.529 (1.009)	85	339424			36.36- 96.36	64.78
51 1,1,1-Trichloroethane					CAS #: 71-55-6		
9.667	9.667 (1.023)	97	503763	4.99525	4.995	80.00- 120.00	100.00
9.667	9.667 (1.023)	99	326240			34.52- 94.52	64.76
50 Cyclohexane					CAS #: 110-82-7		
9.667	9.667 (1.023)	84	358377	4.54793	4.548	80.00- 120.00	100.00
9.639	9.639 (1.020)	56	505163			112.88- 172.88	140.96
9.639	9.639 (1.020)	41	291774			42.36- 102.36	81.42
52 Carbon Tetrachloride					CAS #: 56-23-5		
9.833	9.833 (1.041)	119	447261	5.92613	5.926	80.00- 120.00	100.00
9.833	9.833 (1.041)	117	465769			73.85- 133.85	104.14
56 Benzene					CAS #: 71-43-2		
10.137	10.137 (0.946)	78	854798	5.15167	5.152	80.00- 120.00	100.00
10.137	10.137 (0.946)	77	193295			0.00- 53.10	22.61
58 1,2-Dichloroethane					CAS #: 107-06-2		
10.275	10.275 (0.959)	62	390743	6.14070	6.141	80.00- 120.00	100.00
10.275	10.275 (0.959)	64	124866			1.17- 61.17	31.96
59 Heptane					CAS #: 142-82-5		
10.386	10.386 (0.969)	43	619734	5.57641	5.576	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
59 Heptane (continued)							
10.386	10.386 (0.969)	57	304881			22.34- 82.34	49.20
10.386	10.386 (0.969)	100	94760			0.00- 46.30	15.29
61 Trichloroethene					CAS #: 79-01-6		
11.050	11.049 (1.031)	130	364222	5.72718	5.727	80.00- 120.00	100.00
11.050	11.049 (1.031)	95	361648			70.30- 130.30	99.29
11.050	11.049 (1.031)	97	236146			35.09- 95.09	64.84
64 1,2-Dichloropropane					CAS #: 78-87-5		
11.492	11.492 (1.072)	63	320432	5.43879	5.439	80.00- 120.00	100.00
11.492	11.492 (1.072)	62	228713			45.38- 105.38	71.38
11.492	11.492 (1.072)	41	214847			40.86- 100.86	67.05
65 1,4-Dioxane					CAS #: 123-91-1		
11.685	11.685 (1.090)	88	113555	4.01542	4.015	80.00- 120.00	100.00
11.685	11.685 (1.090)	58	101975			54.91- 114.91	89.80
11.685	11.685 (1.090)	57	33408			0.00- 56.59	29.42
66 Bromodichloromethane					CAS #: 75-27-4		
11.962	11.962 (1.116)	83	506716	5.57658	5.576	80.00- 120.00	100.00
11.962	11.962 (1.116)	85	329450			33.37- 93.37	65.02
67 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
12.874	12.874 (1.201)	75	324729	4.31281	4.313	80.00- 120.00	100.00
12.874	12.874 (1.201)	77	108090			1.02- 61.02	33.29
12.874	12.874 (1.201)	39	196095			29.40- 89.40	60.39
68 4-Methyl-2-pentanone					CAS #: 108-10-1		
13.179	13.178 (1.230)	43	594578	4.60163	4.602	80.00- 120.00	100.00
13.179	13.178 (1.230)	58	208020			9.71- 69.71	34.99
13.179	13.178 (1.230)	85	79681			0.00- 45.16	13.40
72 Toluene					CAS #: 108-88-3		
13.455	13.455 (1.255)	91	972805	5.63983	5.640	80.00- 120.00	100.00
13.427	13.455 (1.253)	92	574619			30.24- 90.24	59.07
73 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
14.008	14.035 (0.880)	75	346636	4.51060	4.510	80.00- 120.00	100.00
14.036	14.035 (0.882)	77	107050			1.37- 61.37	30.88
14.008	14.008 (0.880)	39	197908			30.08- 90.08	57.09
74 1,1,2-Trichloroethane					CAS #: 79-00-5		
14.340	14.340 (0.901)	97	345503	5.48959	5.490	80.00- 120.00	100.00
14.340	14.340 (0.901)	99	212115			32.06- 92.06	61.39
14.340	14.340 (0.901)	83	293625			54.98- 114.98	84.98

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
75 Tetrachloroethene					CAS #: 127-18-4		
14.423	14.423 (0.906)	166	427582	5.56149	5.561	80.00- 120.00	100.00
14.423	14.423 (0.906)	129	342474			49.26- 109.26	80.10
14.423	14.423 (0.906)	131	319622			46.68- 106.68	74.75
76 2-Hexanone					CAS #: 591-78-6		
14.782	14.782 (0.929)	58	266631	3.82385	3.824	80.00- 120.00	100.00
14.755	14.782 (0.927)	43	540430			168.51- 228.51	202.69
14.782	14.782 (0.929)	100	51817			0.00- 48.91	19.43
77 Dibromochloromethane					CAS #: 124-48-1		
14.976	14.976 (0.941)	129	476556	5.63882	5.639	80.00- 120.00	100.00
14.976	14.976 (0.941)	127	370889			49.01- 109.01	77.83
15.003	15.003 (0.943)	208	23285			0.00- 34.90	4.89
78 1,2-Dibromoethane					CAS #: 106-93-4		
15.197	15.197 (0.955)	107	487434	5.33251	5.332	80.00- 120.00	100.00
15.197	15.197 (0.955)	109	470670			64.66- 124.66	96.56
81 Chlorobenzene					CAS #: 108-90-7		
15.971	15.971 (1.003)	112	848902	5.67216	5.672	80.00- 120.00	100.00
15.971	15.971 (1.003)	114	269616			1.29- 61.29	31.76
15.971	15.971 (1.003)	77	500768			27.31- 87.31	58.99
84 Ethyl Benzene					CAS #: 100-41-4		
16.109	16.109 (1.012)	106	422577	5.37322	5.373	80.00- 120.00	100.00
16.109	16.109 (1.012)	91	1325058			290.46- 350.46	313.57
85 m,p-Xylene					CAS #: 108-38-3		
16.303	16.303 (1.024)	106	531470	5.35510	5.355	80.00- 120.00	100.00
16.303	16.303 (1.024)	91	1058793			176.36- 236.36	199.22
86 o-Xylene					CAS #: 95-47-6		
16.911	16.939 (1.063)	106	478767	5.09613	5.096	80.00- 120.00	100.00
16.911	16.911 (1.063)	91	1009151			182.49- 242.49	210.78
87 Styrene					CAS #: 100-42-5		
16.966	16.966 (1.066)	104	777052	5.27940	5.279	80.00- 120.00	100.00
16.966	16.966 (1.066)	78	381915			18.44- 78.44	49.15
89 Bromoform					CAS #: 75-25-2		
17.271	17.270 (1.085)	173	390097	5.62377	5.624	80.00- 120.00	100.00
17.271	17.270 (1.085)	171	202117			21.93- 81.93	51.81
90 Cumene					CAS #: 98-82-8		
17.464	17.464 (1.097)	105	1470287	5.34409	5.344	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
90 Cumene (continued)							
17.464	17.464 (1.097)	120	418580			0.00- 58.08	28.47
94 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
18.045	18.045 (1.134)	83	770204	5.69447	5.694	80.00- 120.00	100.00
18.045	18.045 (1.134)	85	495611			34.28- 94.28	64.35
96 Propylbenzene					CAS #: 103-65-1		
18.100	18.100 (1.137)	91	1875325	5.56940	5.569	80.00- 120.00	100.00
18.100	18.100 (1.137)	120	439072			0.00- 52.67	23.41
97 4-Ethyltoluene					CAS #: 622-96-8		
18.294	18.293 (1.149)	105	1569594	5.42424	5.424	80.00- 120.00	100.00
18.294	18.293 (1.149)	120	498758			0.73- 60.73	31.78
98 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
18.404	18.404 (1.156)	105	1275182	5.32954	5.330	80.00- 120.00	100.00
18.404	18.404 (1.156)	120	660990			22.97- 82.97	51.83
102 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
19.040	19.040 (1.196)	105	1154146	4.93666	4.937	80.00- 120.00	100.00
19.040	19.040 (1.196)	120	553724			17.20- 77.20	47.98
105 1,3-Dichlorobenzene					CAS #: 541-73-1		
19.483	19.482 (1.224)	146	839135	5.54081	5.541	80.00- 120.00	100.00
19.483	19.482 (1.224)	148	531721			33.25- 93.25	63.37
19.483	19.482 (1.224)	111	351586			13.08- 73.08	41.90
106 1,4-Dichlorobenzene					CAS #: 106-46-7		
19.621	19.621 (1.233)	146	847432	5.44078	5.441	80.00- 120.00	100.00
19.621	19.621 (1.233)	148	538622			33.07- 93.07	63.56
19.621	19.621 (1.233)	111	335680			12.18- 72.18	39.61
109 alpha-chlorotoluene					CAS #: 100-44-7		
19.814	19.814 (1.245)	91	648377	3.57205	3.572	80.00- 120.00	100.00
19.842	19.842 (1.247)	126	126490			0.00- 50.13	19.51
112 1,2-Dichlorobenzene					CAS #: 95-50-1		
20.119	20.118 (1.264)	146	808222	5.47955	5.480	80.00- 120.00	100.00
20.119	20.118 (1.264)	148	519708			33.94- 93.94	64.30
20.119	20.118 (1.264)	111	345337			13.86- 73.86	42.73
114 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
21.916	21.916 (1.377)	180	554220	5.34599	5.346	80.00- 120.00	100.00
21.916	21.916 (1.377)	182	513042			65.18- 125.18	92.57

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
115 Hexachlorobutadiene					CAS #: 87-68-3		
22.054	22.054 (1.386)	225	401635	5.37611	5.376	80.00- 120.00	100.00
22.054	22.054 (1.386)	223	257279			32.68- 92.68	64.06
55 2,2,4-Trimethylpentane					CAS #: 540-84-1		
10.137	10.137 (1.073)	56	488592	4.48364	4.484	80.00- 120.00	100.00
10.137	10.137 (1.073)	99	69965			0.00- 44.97	14.32
10.137	10.137 (1.073)	41	402744			41.28- 101.28	82.43
22 3-Chloroprene					CAS #: 107-05-1		
6.930	6.930 (0.734)	76	567722	5.29463	5.295	80.00- 120.00	100.00
6.930	6.930 (0.734)	41	660			0.00- 30.15	0.12
35 Vinyl Acetate					CAS #: 108-05-4		
8.561	8.561 (0.906)	43	196508	2.05140	2.051	80.00- 120.00	100.00(R)
8.561	8.561 (0.906)	42	17781			0.00- 37.53	9.05
8.561	8.561 (0.906)	86	15546			0.00- 38.89	7.91
14 Isopentane					CAS #: 78-78-4		
5.215	5.215 (0.552)	57	166271	4.19525	4.195	80.00- 120.00	100.00
5.215	5.215 (0.552)	43	277892			117.08- 177.08	167.13
5.215	5.215 (0.552)	42	245362			97.60- 157.60	147.57
63 Methylcyclohexane					CAS #: 108-87-2		
11.243	11.243 (1.190)	83	465963	4.53353	4.534	80.00- 120.00	100.00
11.243	11.243 (1.190)	98	235388			19.40- 79.40	50.52
11.243	11.243 (1.190)	55	460070			66.29- 126.29	98.74
8 Butane					CAS #: 106-97-8		
3.557	3.556 (0.377)	58	31343	3.33589	3.336	80.00- 120.00	100.00
3.557	3.556 (0.377)	43	282458			657.57- 717.57	901.18
117 Naphthalene					CAS #: 91-20-3		
22.220	22.220 (1.396)	128	1048866	4.41840	4.418	80.00- 120.00	100.00
22.220	22.220 (1.396)	127	125775			0.00- 42.66	11.99

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Report Date: 19-Mar-2008 10:50

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdy.i
Lab File ID: y031904.d
Lab Smp Id: LCS-1
Analysis Type: VOA
Quant Type: ISTD
Operator: lmr
Method File: /var/chem/msdy.i/y-19mar.b/t14ll0226b.m
Misc Info: 50ppbv-5ppbv

Calibration Date: 19-MAR-2008
Calibration Time: 10:06
Client Smp ID: LCS-1
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 Bromochloromethan	350664	210398	490930	335122	-4.43
60 1,4-Difluorobenze	1382074	829244	1934904	1309880	-5.22
80 Chlorobenzene-d5	1046603	627962	1465244	979227	-6.44

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
47 Bromochloromethan	9.45	9.12	9.78	9.45	0.00
60 1,4-Difluorobenze	10.72	10.39	11.05	10.72	0.00
80 Chlorobenzene-d5	15.92	15.59	16.25	15.92	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/msdy.i/y-19mar.b/y031904.d

Date : 19-MAR-2008 10:39

Client ID: LCS-1

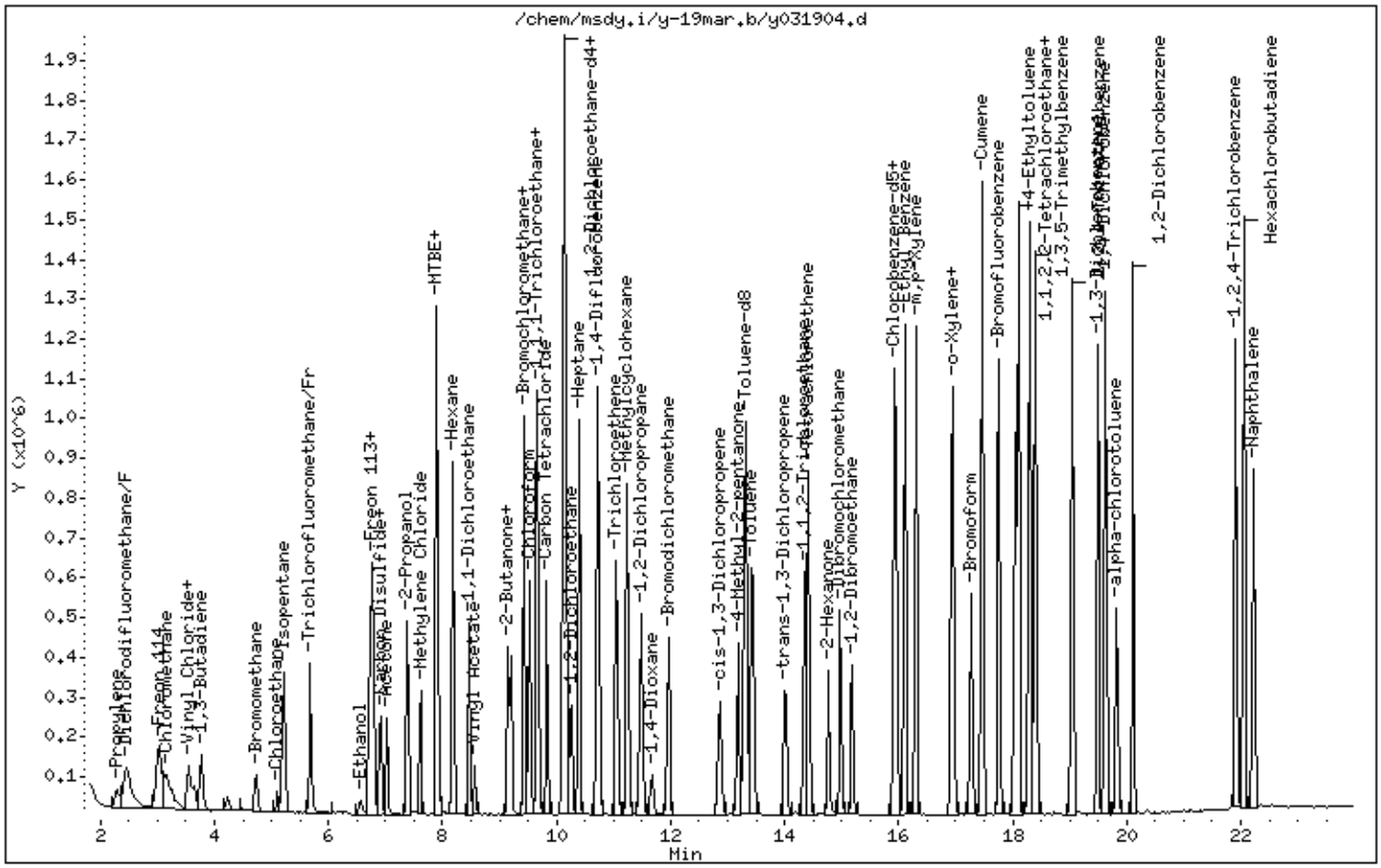
Instrument: msdy.i

Sample Info: 50mL #1576-253

Operator: lmr

Column phase: RTx-624

Column diameter: 0.32



0199

m/z	ION ABUNDANCE CRITERIA	% REL. ABUNDANCE
50	15.0 – 40.0% of mass 95	21.83
75	30.0 – 60.0% of mass 95	45.70
95	Base peak, 100.00% relative abundance	100.00
96	5.0 – 9.0% of mass 95	6.45
173	Less than 2.0% of mass 174	(1.05)[1]
174	Greater than 50.0% of mass 95	59.91
175	5.0 – 9.0% of mass 174	(7.30)[1]
176	Greater than 95.0% but less than 101.0% of mass 174	(97.57)[1]
177	5.0 – 9.0% of mass 176	(6.48)[2]

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

Verify 176/174 m/z Ratio: 533868/547220 x100 = 97.57

BFB Injection Date: 3/19/08
BFB Injection Time: 0910
BFB File ID: Y031902
Tekmar Purge Flow: 31.0 ml/min
Vacuum: 6.61x10^-6

IS/S Std.#: 1576-295	Exp. Date: 5/19/08
BCM 350664	
1,4-DFB 1382074	
CB-d5 1041603	

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

Calculation Check:

ppbv of compound = $\frac{Area_{Sample}}{Area_{IS}} \times \frac{Conc._{IS}}{RRF}$ = $\frac{(1374592)}{(1382074)} \times \frac{(10.0)}{(1.00416)}$ = 9.905

Reported Result 9.905

File ID: Y031903
Compound: Tol-d8
Initials: UR

	Use	File #	Sample / Client Name	Can #	Pressure	Amt Loaded	DF	Date Analyzed	Time Analyzed	Review Init.	Comments
1	X	Y031901	BFB Tune Check	HTO-281	50ng	2ul	1.00	3/19/08	0900	UR	split peak
2	✓	02	BFB Tune Check	↓	↓				0910	UR	
3	✓	03	1541-64 CCV-1	5ppbv → 5ppbv		50mL			1002	UR	NO VA
4	✓	04	1576-253 LCS-1	↓	↓	↓			1039	UR	
5	X	05	System Blank	—	dry	500mL			1133	UR	
6	X	06	↓ Blank	33678	humid				1401	QM	
7	✓	07	Lab Blank	34242		↓	↓	↓	1451	QM/RS	B-flag "ETOH"
8	✓	08	0803156-01A	34015	3.5"Hg → 5psi	500mL	1.52	3/19/08	1558	QM/RS	
9	✓	09	↓ -02A	22678	6.0"Hg → 5psi	↓	1.68	↓	1645	QM/RS	

Signature [signature] Date 3/19/07

Air Toxics Ltd.

Data file : /var/chem/msdy.i/y-26feb.b/y022603.d
Lab Smp Id: Client Smp ID: BFB
Inj Date : 26-FEB-2008 10:29
Operator : db Inst ID: msdy.i
Smp Info : 2uL #1476-196;BFB Tune Check;BFB Tune Check
Misc Info : 50ng
Comment :
Method : /var/chem/msdy.i/y-26feb.b/bfb30.m
Meth Date : 26-Feb-2008 08:18 Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 1 QC Sample: BFB
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50 Sample Matrix: WATER
Processing Host: eeyore

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

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

Cpnd Variable Local Compound Variable

					CONCENTRATIONS ON-COL (ug/L)	CONCENTRATIONS FINAL (ug/L)	TARGET RANGE	RATIO
1 bfb							CAS #: 460-00-4	
3.854	3.806	0.048	95	1080021			100.00- 100.00	100.00
3.854	3.806	0.048	50	220348			15.00- 40.00	20.40
3.854	3.806	0.048	75	483777			30.00- 60.00	44.79
3.854	3.806	0.048	96	71266			5.00- 9.00	6.60
3.854	3.806	0.048	173	7532			0.00- 2.00	1.12
3.854	3.806	0.048	174	673002			50.00- 100.00	62.31
3.854	3.806	0.048	175	49666			5.00- 9.00	7.38
3.854	3.806	0.048	176	641898			95.00- 101.00	95.38
3.854	3.806	0.048	177	41985			5.00- 9.00	6.54

Data File: /var/chem/msdy.i/y-26feb.b/y022603.d

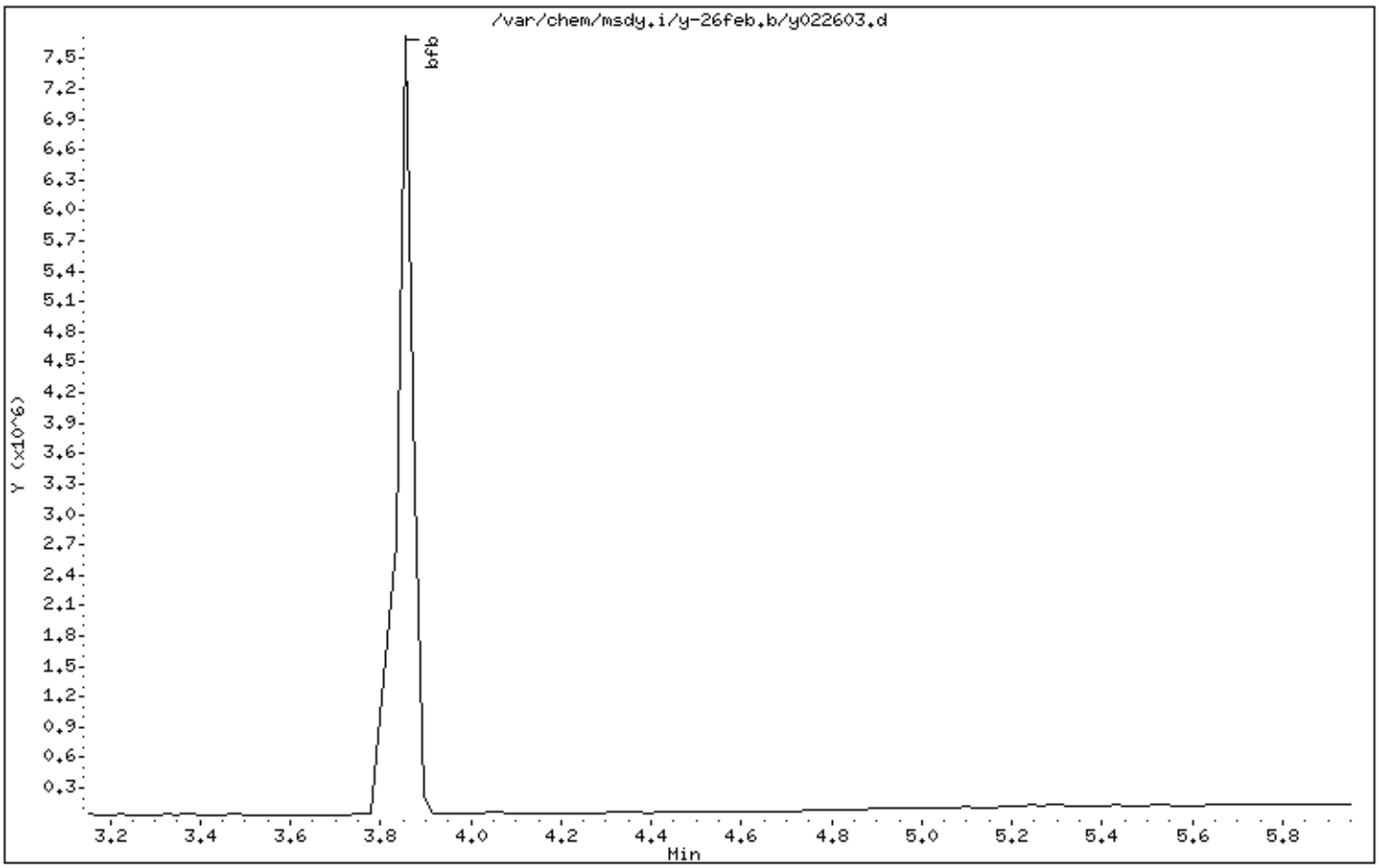
Date : 26-FEB-2008 10:29

Client ID: BFB Instrument: msdy.i

Sample Info: 2uL #1476-196;BFB Tune Check;BFB Tune Check

Volume Injected (uL): 1.0 Operator: db

Column phase: Column diameter: 2.00



Data File: /var/chem/msdy.i/y-26feb.b/y022603.d

Date : 26-FEB-2008 10:29

Client ID: BFB

Instrument: msdy.i

Sample Info: 2uL #1476-196;BFB Tune Check;BFB Tune Check

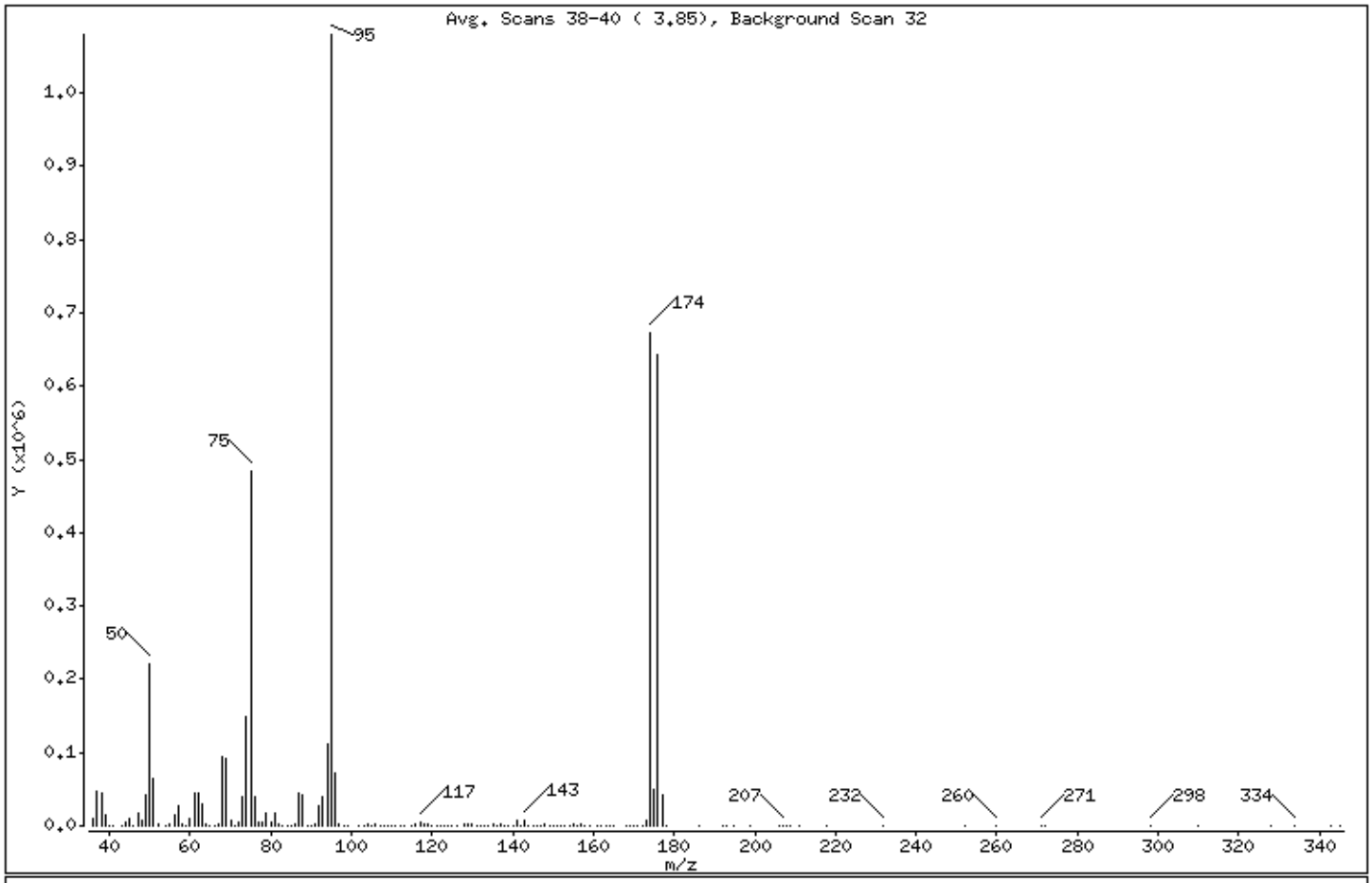
Volume Injected (uL): 1.0

Operator: db

Column phase:

Column diameter: 2.00

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	20.40
75	30.00 - 60.00% of mass 95	44.79
96	5.00 - 9.00% of mass 95	6.60
173	Less than 2.00% of mass 174	0.70 (1.12)
174	50.00 - 100.00% of mass 95	62.31
175	5.00 - 9.00% of mass 174	4.60 (7.38)
176	95.00 - 101.00% of mass 174	59.43 (95.38)
177	5.00 - 9.00% of mass 176	3.89 (6.54)

Date : 26-FEB-2008 10:29

Client ID: BFB Instrument: msdy.i

Sample Info: 2uL #1476-196;BFB Tune Check;BFB Tune Check

Volume Injected (uL): 1.0 Operator: db

Column phase: Column diameter: 2.00

Data File: y022603.d
Spectrum: Avg. Scans 38-40 (3.85), Background Scan 32
Location of Maximum: 95.00
Number of points: 156

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	8844	78.00	3773	121.00	85	163.00	122
37.00	47464	79.00	16184	122.00	348	164.00	55
38.00	44240	80.00	4885	123.00	275	165.00	136
39.00	16067	81.00	17728	124.00	522	168.00	199
40.00	902	82.00	3532	125.00	370	169.00	355
41.00	268	83.00	449	126.00	135	170.00	324
43.00	56	84.00	215	128.00	2771	171.00	589
44.00	4868	85.00	221	129.00	1450	172.00	285
45.00	8745	86.00	1260	130.00	2633	173.00	7532
46.00	585	87.00	45864	131.00	1141	174.00	672960
47.00	17792	88.00	43424	132.00	185	175.00	49664
48.00	6219	89.00	540	133.00	534	176.00	641856
49.00	41928	90.00	55	134.00	371	177.00	41984
50.00	220288	91.00	2698	135.00	1425	178.00	1166
51.00	64512	92.00	26272	136.00	449	186.00	74
52.00	2708	93.00	39456	137.00	1315	192.00	105
54.00	229	94.00	111592	138.00	56	193.00	29
55.00	2545	95.00	1079808	139.00	247	195.00	63
56.00	15801	96.00	71264	140.00	731	199.00	78
57.00	26568	97.00	1914	141.00	6921	206.00	61
58.00	1533	98.00	268	142.00	933	207.00	366
59.00	209	99.00	66	143.00	7535	208.00	66
60.00	8919	102.00	51	144.00	514	209.00	38
61.00	45528	103.00	219	145.00	464	211.00	61
62.00	43616	104.00	3171	146.00	1082	218.00	61
63.00	30528	105.00	1042	147.00	531	232.00	80
64.00	2887	106.00	2566	148.00	1926	252.00	55
65.00	246	107.00	540	149.00	789	260.00	201
66.00	192	108.00	82	150.00	498	271.00	106
67.00	2437	109.00	95	151.00	525	272.00	55
68.00	94968	110.00	600	152.00	653	298.00	60
69.00	91704	111.00	412	153.00	679	310.00	52
70.00	7599	112.00	566	154.00	536	328.00	132
71.00	199	113.00	455	155.00	2110	334.00	234
72.00	4327	115.00	932	156.00	171	343.00	96

Date : 26-FEB-2008 10:29

Client ID: BFB Instrument: msdy.i

Sample Info: 2uL #1476-196;BFB Tune Check;BFB Tune Check

Volume Injected (uL): 1.0 Operator: db

Column phase: Column diameter: 2.00

Data File: y022603.d
Spectrum: Avg. Scans 38-40 (3.85), Background Scan 32
Location of Maximum: 95.00
Number of points: 156

m/z	Y	m/z	Y	m/z	Y	m/z	Y
73.00	39040	116.00	2592	157.00	1561	345.00	55
74.00	149632	117.00	4420	158.00	258		
75.00	483776	118.00	2576	159.00	1027		
76.00	40536	119.00	3117	161.00	834		
77.00	5260	120.00	266	162.00	57		

Air Toxics Ltd.

Data file : /var/chem/msdy.i/y-28feb.b/y022801.d
Lab Smp Id: Client Smp ID: BFB
Inj Date : 28-FEB-2008 10:19
Operator : jdg Inst ID: msdy.i
Smp Info : 2uL #1476-196;BFB Tune Check;BFB Tune Check
Misc Info : 50ng
Comment :
Method : /chem/msdy.i/y-28feb.b/bfb30.m
Meth Date : 27-Feb-2008 08:30 Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 1 QC Sample: BFB
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50 Sample Matrix: WATER
Processing Host: eeyore

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

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

Cpnd Variable Local Compound Variable

RT	EXP RT	DLT RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	CONCENTRATIONS FINAL (ug/L)	TARGET RANGE	RATIO
1 bfb							CAS #: 460-00-4	
3.854	3.806	0.048	95	1009784			100.00- 100.00	100.00
3.854	3.806	0.048	50	207289			15.00- 40.00	20.53
3.854	3.806	0.048	75	454058			30.00- 60.00	44.97
3.854	3.806	0.048	96	65547			5.00- 9.00	6.49
3.854	3.806	0.048	173	7082			0.00- 2.00	1.13
3.854	3.806	0.048	174	626688			50.00- 100.00	62.06
3.854	3.806	0.048	175	46162			5.00- 9.00	7.37
3.854	3.806	0.048	176	596202			95.00- 101.00	95.14
3.854	3.806	0.048	177	38183			5.00- 9.00	6.40

Data File: /var/chem/msdy.i/y-28feb.b/y022801.d

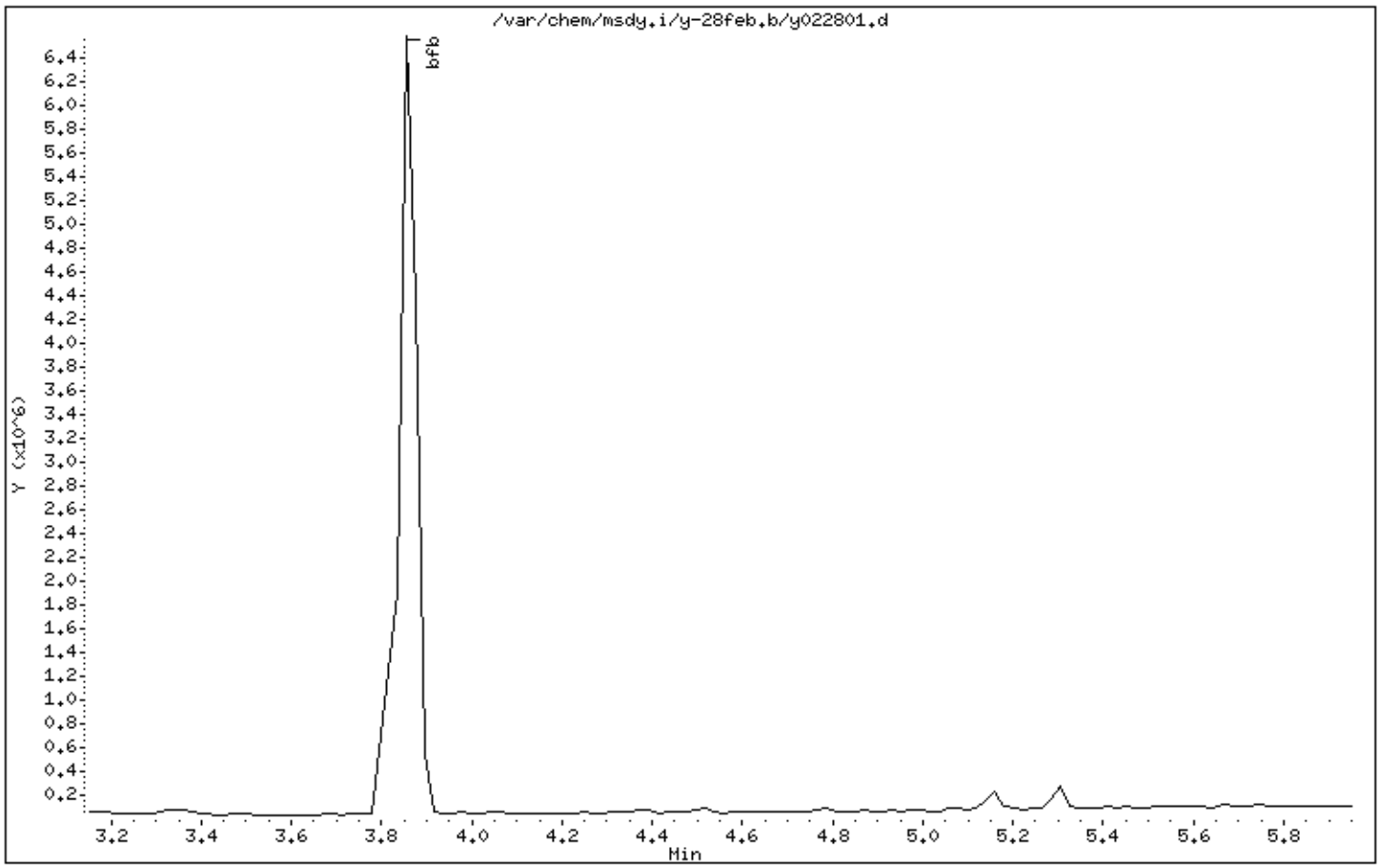
Date : 28-FEB-2008 10:19

Client ID: BFB Instrument: msdy.i

Sample Info: 2uL #1476-196;BFB Tune Check;BFB Tune Check

Volume Injected (uL): 1.0 Operator: jdg

Column phase: Column diameter: 2.00



Data File: /var/chem/msdy.i/y-28feb.b/y022801.d

Date : 28-FEB-2008 10:19

Client ID: BFB

Instrument: msdy.i

Sample Info: 2uL #1476-196;BFB Tune Check;BFB Tune Check

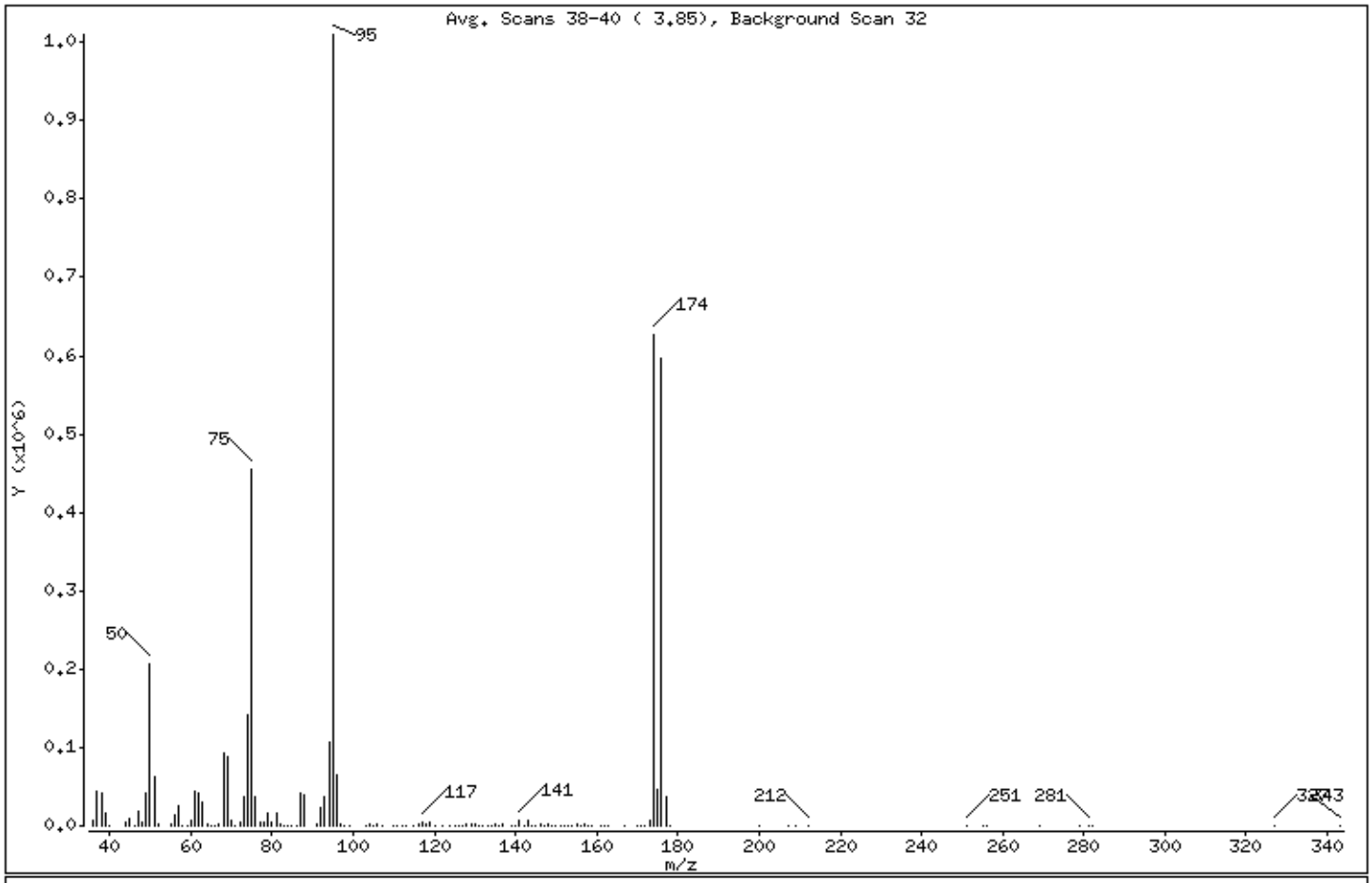
Volume Injected (uL): 1.0

Operator: jdg

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	20.53
75	30.00 - 60.00% of mass 95	44.97
96	5.00 - 9.00% of mass 95	6.49
173	Less than 2.00% of mass 174	0.70 (1.13)
174	50.00 - 100.00% of mass 95	62.06
175	5.00 - 9.00% of mass 174	4.57 (7.37)
176	95.00 - 101.00% of mass 174	59.04 (95.14)
177	5.00 - 9.00% of mass 176	3.78 (6.40)

Date : 28-FEB-2008 10:19

Client ID: BFB Instrument: msdy.i

Sample Info: 2uL #1476-196;BFB Tune Check;BFB Tune Check

Volume Injected (uL): 1.0 Operator: jdg

Column phase: Column diameter: 2.00

Data File: y022801.d
Spectrum: Avg. Scans 38-40 (3.85), Background Scan 32
Location of Maximum: 95.00
Number of points: 134

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	7631	75.00	454016	117.00	4372	154.00	549
37.00	44976	76.00	38056	118.00	2792	155.00	1616
38.00	41280	77.00	4965	119.00	3586	156.00	286
39.00	15869	78.00	4303	120.00	329	157.00	1475
40.00	797	79.00	15173	122.00	291	158.00	183
44.00	3609	80.00	4329	124.00	472	159.00	849
45.00	8846	81.00	16744	125.00	51	161.00	942
46.00	609	82.00	3097	126.00	306	162.00	50
47.00	17520	83.00	265	127.00	324	163.00	68
48.00	5681	84.00	107	128.00	2909	167.00	130
49.00	40920	85.00	73	129.00	1161	170.00	631
50.00	207232	86.00	1103	130.00	2670	171.00	431
51.00	63832	87.00	40712	131.00	943	172.00	242
52.00	2924	88.00	40200	132.00	119	173.00	7082
55.00	2015	91.00	2072	133.00	165	174.00	626688
56.00	13374	92.00	24048	134.00	392	175.00	46160
57.00	25856	93.00	36440	135.00	1226	176.00	596160
58.00	793	94.00	107488	136.00	345	177.00	38176
59.00	182	95.00	1009728	137.00	1594	178.00	747
60.00	7988	96.00	65544	139.00	280	200.00	65
61.00	43024	97.00	1649	140.00	601	207.00	42
62.00	42736	98.00	186	141.00	7036	209.00	85
63.00	30656	99.00	195	142.00	781	212.00	149
64.00	2483	103.00	469	143.00	7029	251.00	56
65.00	210	104.00	2628	144.00	475	255.00	52
66.00	194	105.00	627	145.00	591	256.00	50
67.00	1958	106.00	2658	146.00	1239	269.00	46
68.00	93848	107.00	627	147.00	793	279.00	53
69.00	89248	110.00	410	148.00	1676	281.00	187
70.00	6233	111.00	429	149.00	546	282.00	60
71.00	187	112.00	477	150.00	917	327.00	68
72.00	3768	113.00	440	151.00	402	343.00	58
73.00	36160	115.00	794	152.00	455		
74.00	140928	116.00	2226	153.00	640		

Air Toxics Ltd.

Data file : /var/chem/msdy.i/y-11mar.b/y031101.d
Lab Smp Id: Client Smp ID: BFB
Inj Date : 11-MAR-2008 13:35
Operator : ej Inst ID: msdy.i
Smp Info : 2uL #1476-196;BFB Tune Check
Misc Info : 50ng
Comment :
Method : /var/chem/msdy.i/y-11mar.b/bfb30.m
Meth Date : 11-Mar-2008 13:24 Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 1 QC Sample: BFB
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50 Sample Matrix: WATER
Processing Host: eeyore

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

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

Cpnd Variable Local Compound Variable

					CONCENTRATIONS ON-COL	CONCENTRATIONS FINAL		
RT	EXP RT	DLT RT	MASS	RESPONSE	(ug/L)	(ug/L)	TARGET RANGE	RATIO
1 bfb						CAS #: 460-00-4		
3.875	3.806	0.069	95	871776			100.00- 100.00	100.00
3.875	3.806	0.069	50	187448			15.00- 40.00	21.50
3.875	3.806	0.069	75	399157			30.00- 60.00	45.79
3.875	3.806	0.069	96	59349			5.00- 9.00	6.81
3.875	3.806	0.069	173	5506			0.00- 2.00	0.99
3.875	3.806	0.069	174	556698			50.00- 100.00	63.86
3.875	3.806	0.069	175	39703			5.00- 9.00	7.13
3.875	3.806	0.069	176	532424			95.00- 101.00	95.64
3.875	3.806	0.069	177	34815			5.00- 9.00	6.54

Data File: /var/chem/msdy.i/y-11mar.b/y031101.d

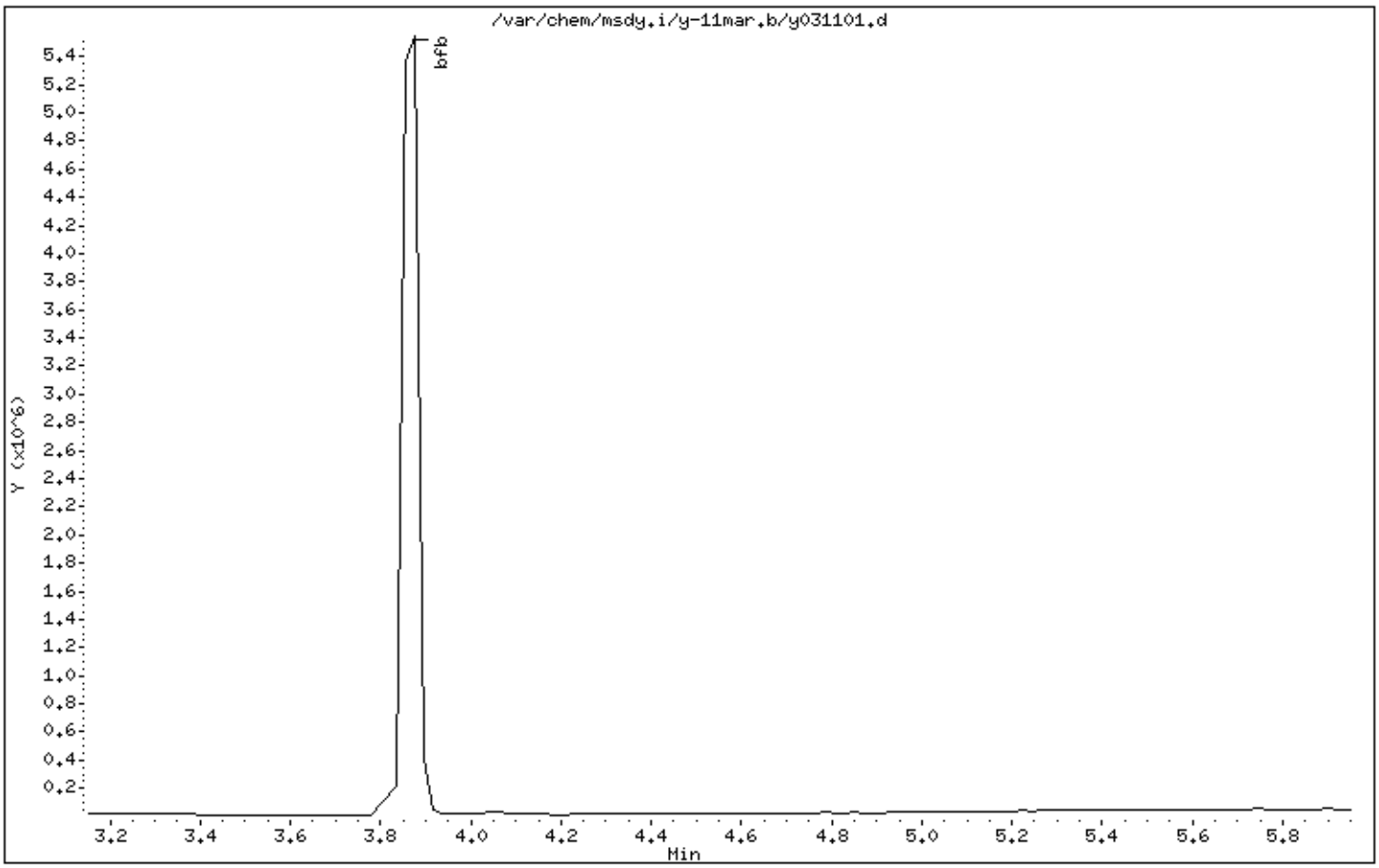
Date : 11-MAR-2008 13:35

Client ID: BFB Instrument: msdy.i

Sample Info: 2uL #1476-196;BFB Tune Check

Volume Injected (uL): 1.0 Operator: ej

Column phase: Column diameter: 2.00



Data File: /var/chem/msdy.i/y-11mar.b/y031101.d

Date : 11-MAR-2008 13:35

Client ID: BFB

Instrument: msdy.i

Sample Info: 2uL #1476-196;BFB Tune Check

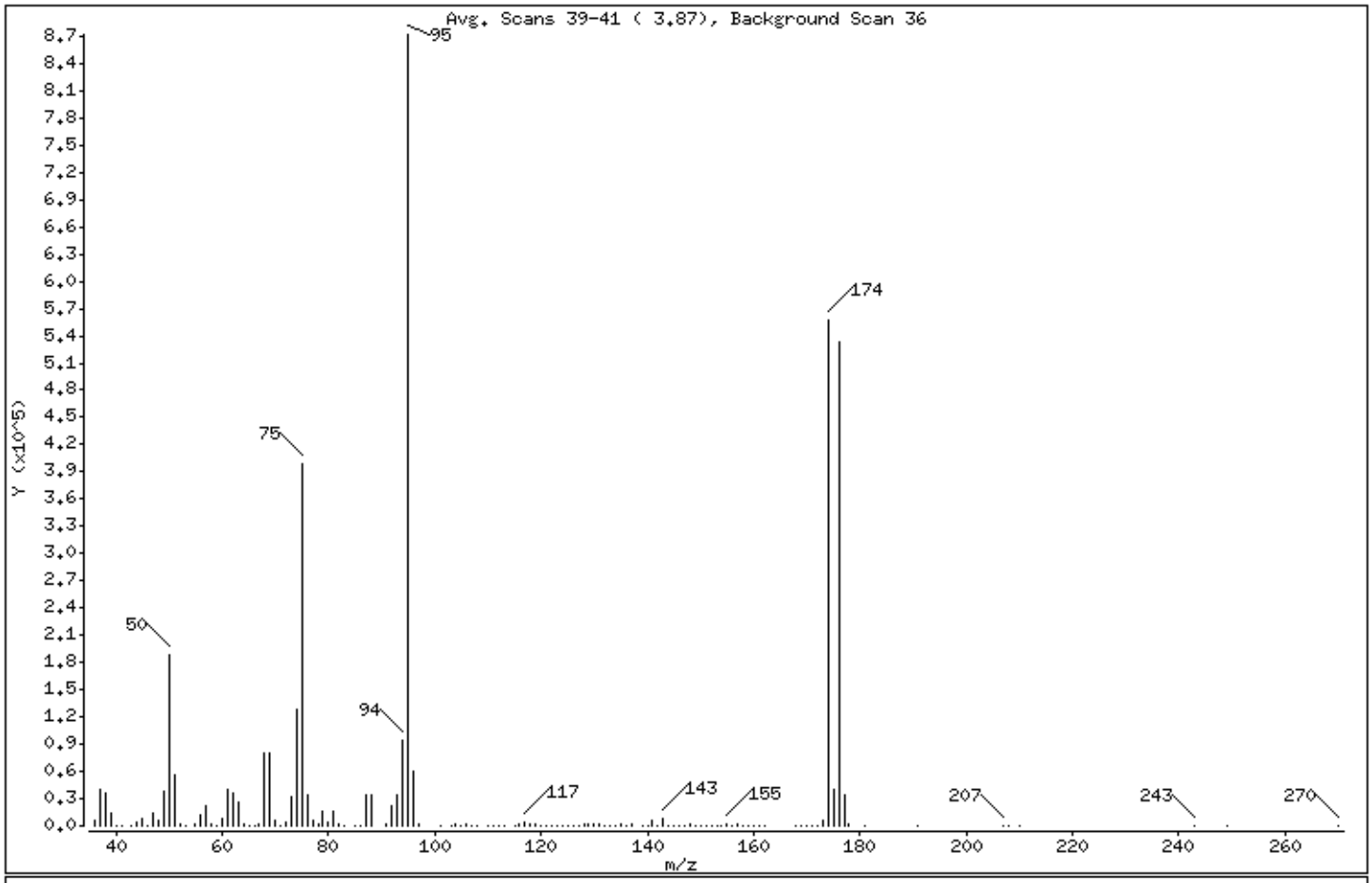
Volume Injected (uL): 1.0

Operator: ej

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	21.50
75	30.00 - 60.00% of mass 95	45.79
96	5.00 - 9.00% of mass 95	6.81
173	Less than 2.00% of mass 174	0.63 (0.99)
174	50.00 - 100.00% of mass 95	63.86
175	5.00 - 9.00% of mass 174	4.55 (7.13)
176	95.00 - 101.00% of mass 174	61.07 (95.64)
177	5.00 - 9.00% of mass 176	3.99 (6.54)

Data File: /var/chem/msdy.i/y-11mar.b/y031101.d

Date : 11-MAR-2008 13:35

Client ID: BFB

Instrument: msdy.i

Sample Info: 2uL #1476-196;BFB Tune Check

Volume Injected (uL): 1.0

Operator: ej

Column phase:

Column diameter: 2.00

Data File: y031101.d
Spectrum: Avg. Scans 39-41 (3.87), Background Scan 36
Location of Maximum: 95.00
Number of points: 134

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	6658	72.00	4182	115.00	785	150.00	699
37.00	40200	73.00	32504	116.00	2137	151.00	88
38.00	36784	74.00	127472	117.00	3955	152.00	459
39.00	14809	75.00	399104	118.00	2341	153.00	268
40.00	560	76.00	34304	119.00	2944	154.00	463
41.00	274	77.00	5558	120.00	222	155.00	1742
43.00	65	78.00	2575	121.00	82	156.00	939
44.00	3961	79.00	15081	122.00	165	157.00	1534
45.00	7421	80.00	4121	123.00	63	158.00	429
46.00	646	81.00	15562	124.00	352	159.00	865
47.00	13607	82.00	2772	125.00	212	160.00	67
48.00	5102	83.00	502	126.00	303	161.00	888
49.00	37552	85.00	81	127.00	241	162.00	53
50.00	187392	86.00	986	128.00	2542	168.00	67
51.00	56656	87.00	34080	129.00	1242	169.00	133
52.00	2238	88.00	33120	130.00	2630	170.00	86
53.00	24	91.00	1971	131.00	1009	171.00	581
55.00	2290	92.00	22088	132.00	215	172.00	524
56.00	11816	93.00	34080	133.00	400	173.00	5506
57.00	22632	94.00	94336	134.00	55	174.00	556672
58.00	1283	95.00	871744	135.00	1392	175.00	39696
59.00	254	96.00	59344	136.00	174	176.00	532416
60.00	7209	97.00	1827	137.00	1296	177.00	34808
61.00	39392	101.00	59	139.00	400	178.00	1062
62.00	36064	103.00	153	140.00	593	181.00	69
63.00	26584	104.00	2305	141.00	6373	191.00	61
64.00	2198	105.00	859	142.00	841	207.00	644
65.00	444	106.00	2798	143.00	7028	208.00	129
66.00	244	107.00	671	144.00	381	210.00	70
67.00	1692	108.00	171	145.00	483	243.00	81
68.00	80912	110.00	306	146.00	962	249.00	73
69.00	80232	111.00	460	147.00	660	270.00	55
70.00	5695	112.00	467	148.00	1709		
71.00	181	113.00	370	149.00	455		

Air Toxics Ltd.

Data file : /var/chem/msdy.i/y-19mar.b/y031902.d
Lab Smp Id: Client Smp ID: BFB
Inj Date : 19-MAR-2008 09:10
Operator : lmr Inst ID: msdy.i
Smp Info : 2uL #1476-281;BFB Tune Check;BFB Tune Check
Misc Info : 50ng
Comment :
Method : /var/chem/msdy.i/y-19mar.b/bfb30.m
Meth Date : 19-Mar-2008 08:49 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 (ug/L)	CONCENTRATIONS FINAL (ug/L)	TARGET RANGE	RATIO
1 bfb							CAS #: 460-00-4	
3.833	3.806	0.027	95	913408			100.00- 100.00	100.00
3.833	3.806	0.027	50	199360			15.00- 40.00	21.83
3.833	3.806	0.027	75	417416			30.00- 60.00	45.70
3.833	3.806	0.027	96	58924			5.00- 9.00	6.45
3.833	3.806	0.027	173	5749			0.00- 2.00	1.05
3.833	3.806	0.027	174	547225			50.00- 100.00	59.91
3.833	3.806	0.027	175	39968			5.00- 9.00	7.30
3.833	3.806	0.027	176	533921			95.00- 101.00	97.57
3.833	3.806	0.027	177	34580			5.00- 9.00	6.48

Data File: /var/chem/msdy.i/y-19mar.b/y031902.d

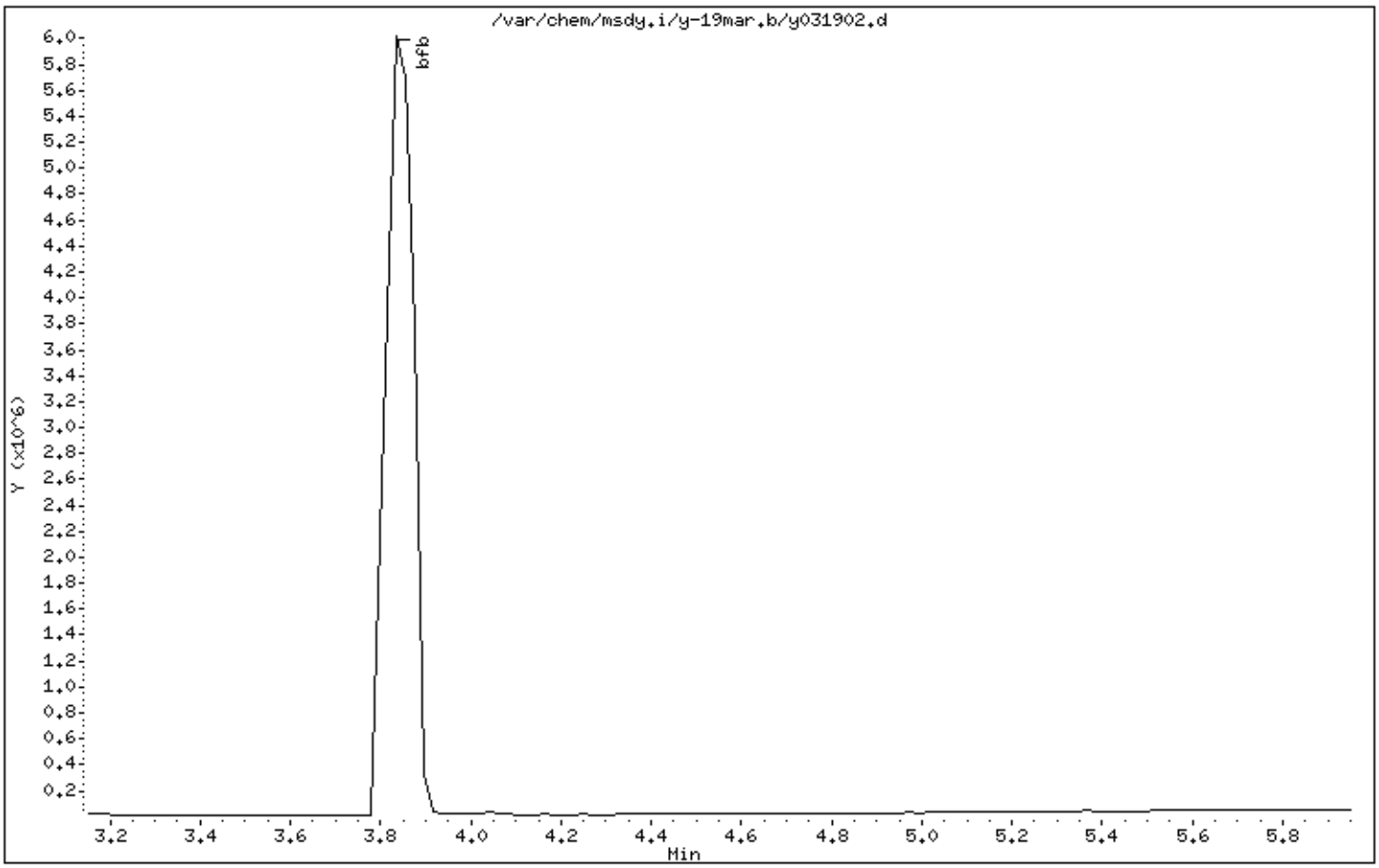
Date : 19-MAR-2008 09:10

Client ID: BFB Instrument: msdy.i

Sample Info: 2uL #1476-281;BFB Tune Check;BFB Tune Check

Volume Injected (uL): 1.0 Operator: lmr

Column phase: Column diameter: 2.00



Data File: /var/chem/msdy.i/y-19mar.b/y031902.d

Date : 19-MAR-2008 09:10

Client ID: BFB

Instrument: msdy.i

Sample Info: 2uL #1476-281;BFB Tune Check;BFB Tune Check

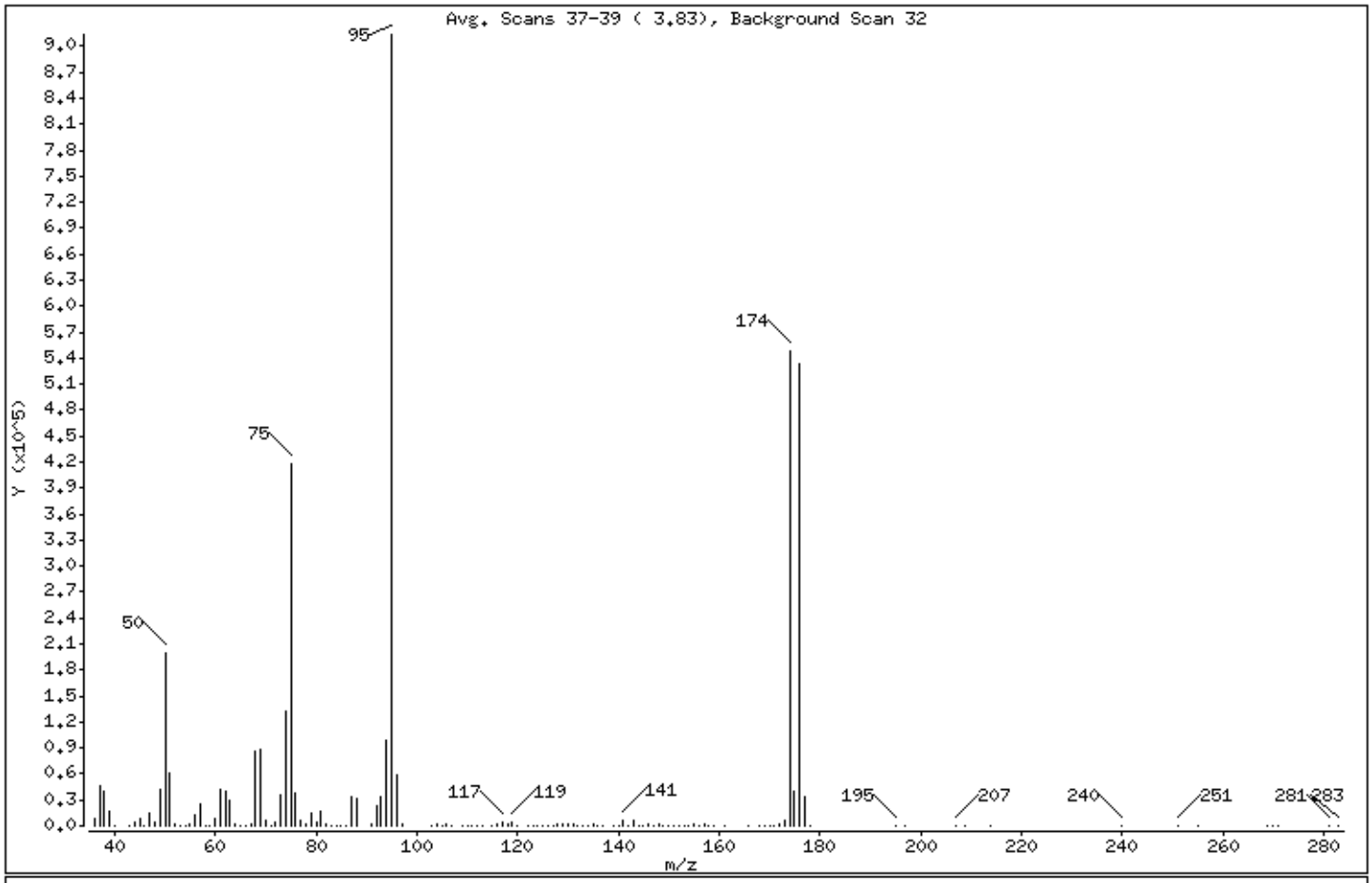
Volume Injected (uL): 1.0

Operator: lmr

Column phase:

Column diameter: 2.00

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	21.83
75	30.00 - 60.00% of mass 95	45.70
96	5.00 - 9.00% of mass 95	6.45
173	Less than 2.00% of mass 174	0.63 (1.05)
174	50.00 - 100.00% of mass 95	59.91
175	5.00 - 9.00% of mass 174	4.38 (7.30)
176	95.00 - 101.00% of mass 174	58.45 (97.57)
177	5.00 - 9.00% of mass 176	3.79 (6.48)

Date : 19-MAR-2008 09:10

Client ID: BFB Instrument: msdy.i

Sample Info: 2uL #1476-281;BFB Tune Check;BFB Tune Check

Volume Injected (uL): 1.0 Operator: lmr

Column phase: Column diameter: 2.00

Data File: y031902.d
Spectrum: Avg. Scans 37-39 (3.83), Background Scan 32
Location of Maximum: 95.00
Number of points: 137

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	8027	73.00	35128	117.00	3899	154.00	396
37.00	45480	74.00	132800	118.00	2003	155.00	1715
38.00	40088	75.00	417408	119.00	3231	156.00	689
39.00	17512	76.00	37000	120.00	85	157.00	1439
40.00	91	77.00	5570	122.00	208	158.00	757
43.00	794	78.00	2592	123.00	220	159.00	972
44.00	4375	79.00	14771	124.00	393	161.00	705
45.00	8795	80.00	3861	125.00	195	166.00	163
46.00	744	81.00	15810	126.00	260	168.00	70
47.00	14786	82.00	3030	127.00	89	169.00	145
48.00	5089	83.00	249	128.00	2513	170.00	210
49.00	41560	84.00	145	129.00	1337	171.00	162
50.00	199360	85.00	54	130.00	2563	172.00	1540
51.00	61672	86.00	796	131.00	1105	173.00	5749
52.00	2555	87.00	34024	132.00	230	174.00	547200
53.00	276	88.00	32496	133.00	237	175.00	39968
54.00	109	91.00	2194	134.00	289	176.00	533888
55.00	2096	92.00	23080	135.00	1066	177.00	34576
56.00	12930	93.00	34096	136.00	312	178.00	1009
57.00	24984	94.00	97776	137.00	977	195.00	69
58.00	568	95.00	913408	139.00	392	197.00	58
59.00	111	96.00	58920	140.00	685	207.00	274
60.00	7862	97.00	1880	141.00	7065	209.00	117
61.00	41672	103.00	441	142.00	744	214.00	62
62.00	39216	104.00	2562	143.00	6988	240.00	82
63.00	30152	105.00	763	144.00	527	251.00	68
64.00	2578	106.00	2809	145.00	712	255.00	55
65.00	757	107.00	840	146.00	1111	269.00	16
66.00	110	109.00	57	147.00	474	270.00	58
67.00	1907	110.00	306	148.00	1766	271.00	51
68.00	85504	111.00	416	149.00	462	281.00	139
69.00	88472	112.00	414	150.00	628	283.00	103
70.00	6237	113.00	375	151.00	88		
71.00	290	115.00	701	152.00	370		
72.00	4325	116.00	2247	153.00	534		

Date : 19-MAR-2008 09:10

Client ID: BFB Instrument: msdy.i

Sample Info: 2uL #1476-281;BFB Tune Check;BFB Tune Check

Volume Injected (uL): 1.0 Operator: lmr

Column phase: Column diameter: 2.00

Data File: y031902.d
Spectrum: Avg. Scans 37-39 (3.83), Background Scan 32
Location of Maximum: 95.00
Number of points: 137

m/z	Y	m/z	Y	m/z	Y	m/z	Y

Shipping/ Receiving Documents

AN ENVIRONMENTAL ANALYTICAL LABORATORY

180 Blue Ravine Road, Suite B
Folsom, CA 95630

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

COMPANY: GEI Consultants, Inc.
ATTENTION: Ms. Theresa Landgraff
FAX #:
FROM: Sample Receiving
Workorder #: 0803156
# of pages (Including Cover): 1

3/25/2008

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

AIR TOXICS LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

CHAIN-OF-CUSTODY RECORD

Sample Transportation Notice

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

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

0220

Contact		**Project Info:**	**Turn Around Time:**
Company	GEI Consultants, Inc.	P.O. #	☒ Normal
Address	455 Winding Brook Glastonbury CT 06033	Project # 081140 - 8 - 1703	☐ Rush _____
Phone	860-368-5300 Cell:	Project Name BayShore OU1 Southern cell Air Monitoring	Specify
Collected By: Signature			

Lab I.D.	Field Sample I.D.	Can #	Date & Time	Analyses Requested	Canister Pressure/Vacuum Initial	Final	Receipt
01A	UW AMS 5	34015	03/06/08 0600/1400	TO-15 + Naphthalene	28.0	7.0	
02A	DW AMS 3	22678	03/06/08 0600/1400	TO-15 + Naphthalene	29.5	9.5	

Relinquished By: (Signature) Date/Time 03/06/08 1530 — Received By: (Signature) Date/Time ATL 03-07-08 0900

Relinquished By: (Signature) Date/Time — Received By: (Signature) Date/Time

Relinquished By: (Signature) Date/Time — Received By: (Signature) Date/Time

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

Lab Use Only	Shipper Name	Air Bill #	Opened By	Temp. (C)	Condition	Custody Seals Intact?	Work Order #
	FedEx	8612 8341 8888		m	Good	Yes No (None)	080316

AN ENVIRONMENTAL ANALYTICAL LABORATORY

SAMPLE RECEIPT SUMMARY

WORKORDER 0803156

Client

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

Sales Rep: TB

Phone

631-760-9300 x 12

Fax

Date Promised: 03/21/08
Date Completed: 3/20/08
Date Received: 3/7/08
PO#: NR
Project#: 061140-8-1703 BayShore OU1 Southern cell Air Monitorin
Total $: $ 624.00
Logged By: MW

Fraction	Sample #	Analysis	Collected	Receipt Vac./Pres.	Amount$
01A	UW AMS 5	Modified TO-15	3/6/2008	3.5 "Hg	$225.00
02A	DW AMS 3	Modified TO-15	3/6/2008	6.0 "Hg	$225.00
03A	Lab Blank	Modified TO-15	NA	NA	$0.00
04A	CCV	Modified TO-15	NA	NA	$0.00
05A	LCS	Modified TO-15	NA	NA	$0.00

Misc. Charges	6 Liter Summa Canister (2) @ $50.00 each., Shipment 54021	$100.00
	Blue Body Flow Controller (2) @ $35.00 each., Shipment 54021	$70.00
	Fuel Surcharge (2) @ $2.00 each.	$4.00

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

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

Analysis Code: TO-14A

TERMS:

Reporting Method: Modified TO-15 + Naph

Other Records

DILUTION FACTORS

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

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

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

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

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

DILUTION FACTORS

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

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

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

Compound Listing

Modified TO-15 + Naph

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

Compound Listing

Modified TO-15 + Naph

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

DATA REVIEW CHECKLIST

Work Order #: 0803156

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

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

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

A	R	T	M	Q	Item
☐	☑	☐		☐	Dilution factor correctly calculated (sample load volume, syringe and bag dilutions, can pressurization(s))
☑	☑	☐			Correct amount of sample analyzed (i.e. sample not over-diluted)
	☑	☐			Spectra verified - documentation of spectral defense included (Section 5A of eCVP pkg)
	NA	☐			TICs resemble reference spectra
☐	☐	☐			TICs between duplicate samples are consistent
☐	☐	☐	☑		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
	NA		☐		Extra printed copies are provided per client profile
	☑		☑		Final invoice amount correct (adjusted for TAT, Penalties, Re-issue Charges etc.)
	☑	☐	☑	☐	Client LUMEN report reviewed for accuracy and completeness

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

A/R: 1 out in CCV (Freon 11 ↑) & 0 out in LCS

M/Q:

A	R/T	M	Q
(Analytical Review/Date)	(Reporting Review/Date)	(Management Review/Date)	(QA Review/Date)
[signature] 3-20-08	R: [signature] 3/20/08	[signature] 3/20/08	
	T:		

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

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

Not Applicable