
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 #: 0705332

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Comments:

Completed by:

Judy Lee	Judy Lee / Document Control	5/31/07
(Signature)	(Print Name & Title)	(Date)

AN ENVIRONMENTAL ANALYTICAL LABORATORY

WORK ORDER #: 0705332

Work Order Summary

CLIENT:	Ms. Sarah Aldridge GEI Consultants, Inc. 455 Winding Brook Dr. Suite 201 Glastonbury, CT 06033	**BILL TO:**	Ms. Sarah Aldridge GEI Consultants, Inc. 455 Winding Brook Dr. Suite 201 Glastonbury, CT 06033
PHONE:	860-368-5300	**P.O. #**	NR
FAX:	860-368-5307	**PROJECT #**	061140-8-1703 BayShore Barrier wall installation
DATE RECEIVED:	05/14/2007	**CONTACT:**	Bryanna Langley
DATE COMPLETED:	05/25/2007		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.
01A	BS051007AMS01 DW	Modified TO-15	3.0 "Hg
01AA	BS051007AMS01 DW Lab Duplicate	Modified TO-15	3.0 "Hg
02A	BS051007AMS04 UW	Modified TO-15	5.5 "Hg
03A	Lab Blank	Modified TO-15	NA
04A	CCV	Modified TO-15	NA
05A	LCS	Modified TO-15	NA

CERTIFIED BY: Linda D. Fruman DATE: 05/25/07

Laboratory Director

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

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

LABORATORY NARRATIVE
Modified TO-15
GEI Consultants, Inc.
Workorder# 0705332

Two 6 Liter Summa Canister samples were received on May 14, 2007. The laboratory performed analysis via modified EPA Method TO-15 using GC/MS in the full scan mode. The method involves concentrating up to 0.2 liters of air. The concentrated aliquot is then flash vaporized and swept through a water management system to remove water vapor. Following dehumidification, the sample passes directly into the GC/MS for analysis.

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

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

Receiving Notes

The Chain of Custody (COC) information for samples BS051007AMS01DW and BS051007AMS04UW did not match the entries on the sample tags with regard to sample identification. The discrepancy was noted in the Sample Receipt Confirmation email/fax and the information on the COC was used to process and report the samples.

The Chain of Custody (COC) was not relinquished properly. A year was not provided by the field sampler.

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.

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
BS051007AMS01 DW	0705332-01A	5/10/2007	5/14/2007	NA	14	5/24/2007	NA	Good
BS051007AMS01 DW La	0705332-01AA	5/10/2007	5/14/2007	NA	14	5/24/2007	NA	Good
BS051007AMS04 UW	0705332-02A	5/10/2007	5/14/2007	NA	14	5/24/2007	NA	Good
Lab Blank	0705332-03A	NA	NA	NA	NA	5/24/2007	NA	Good
CCV	0705332-04A	NA	NA	NA	NA	5/24/2007	NA	Good
LCS	0705332-05A	NA	NA	NA	NA	5/24/2007	NA	Good

Sample Results and Raw Data

AN ENVIRONMENTAL ANALYTICAL LABORATORY

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

Client Sample ID: BS051007AMS01 DW

Lab ID#: 0705332-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Acetone	3.0	19	7.1	46
2-Butanone (Methyl Ethyl Ketone)	0.74	5.7	2.2	17
Ethanol	3.0	9.2	5.6	17

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: BS051007AMS01 DW

Lab ID#: 0705332-01A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**z052406**	**Date of Collection: 5/10/07**	
Dil. Factor:	**1.49**	**Date of Analysis: 5/24/07 01:01 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	0.74	Not Detected	3.7	Not Detected
Freon 114	0.74	Not Detected	5.2	Not Detected
Vinyl Chloride	0.74	Not Detected	1.9	Not Detected
Bromomethane	0.74	Not Detected	2.9	Not Detected
Chloroethane	0.74	Not Detected	2.0	Not Detected
Freon 11	0.74	Not Detected U J	4.2	Not Detected U J
1,1-Dichloroethene	0.74	Not Detected	3.0	Not Detected
Freon 113	0.74	Not Detected	5.7	Not Detected
Methylene Chloride	0.74	Not Detected	2.6	Not Detected
1,1-Dichloroethane	0.74	Not Detected	3.0	Not Detected
cis-1,2-Dichloroethene	0.74	Not Detected	3.0	Not Detected
Chloroform	0.74	Not Detected	3.6	Not Detected
1,1,1-Trichloroethane	0.74	Not Detected	4.1	Not Detected
Carbon Tetrachloride	0.74	Not Detected	4.7	Not Detected
Benzene	0.74	Not Detected	2.4	Not Detected
1,2-Dichloroethane	0.74	Not Detected	3.0	Not Detected
Trichloroethene	0.74	Not Detected	4.0	Not Detected
1,2-Dichloropropane	0.74	Not Detected	3.4	Not Detected
cis-1,3-Dichloropropene	0.74	Not Detected	3.4	Not Detected
Toluene	0.74	Not Detected	2.8	Not Detected
trans-1,3-Dichloropropene	0.74	Not Detected	3.4	Not Detected
1,1,2-Trichloroethane	0.74	Not Detected	4.1	Not Detected
Tetrachloroethene	0.74	Not Detected	5.0	Not Detected
1,2-Dibromoethane (EDB)	0.74	Not Detected	5.7	Not Detected
Chlorobenzene	0.74	Not Detected	3.4	Not Detected
Ethyl Benzene	0.74	Not Detected	3.2	Not Detected
m,p-Xylene	0.74	Not Detected	3.2	Not Detected
o-Xylene	0.74	Not Detected	3.2	Not Detected
Styrene	0.74	Not Detected	3.2	Not Detected
1,1,2,2-Tetrachloroethane	0.74	Not Detected	5.1	Not Detected
1,3,5-Trimethylbenzene	0.74	Not Detected	3.7	Not Detected
1,2,4-Trimethylbenzene	0.74	Not Detected	3.7	Not Detected
1,3-Dichlorobenzene	0.74	Not Detected	4.5	Not Detected
1,4-Dichlorobenzene	0.74	Not Detected	4.5	Not Detected
alpha-Chlorotoluene	0.74	Not Detected	3.8	Not Detected
1,2-Dichlorobenzene	0.74	Not Detected	4.5	Not Detected
1,3-Butadiene	0.74	Not Detected	1.6	Not Detected
Hexane	0.74	Not Detected	2.6	Not Detected
Cyclohexane	0.74	Not Detected	2.6	Not Detected

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: BS051007AMS01 DW

Lab ID#: 0705332-01A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**z052406**	**Date of Collection: 5/10/07**	
Dil. Factor:	**1.49**	**Date of Analysis: 5/24/07 01:01 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Heptane	0.74	Not Detected	3.0	Not Detected
Bromodichloromethane	0.74	Not Detected	5.0	Not Detected
Dibromochloromethane	0.74	Not Detected	6.3	Not Detected
Cumene	0.74	Not Detected	3.7	Not Detected
Propylbenzene	0.74	Not Detected	3.7	Not Detected
Chloromethane	3.0	Not Detected	6.2	Not Detected
1,2,4-Trichlorobenzene	3.0	Not Detected	22	Not Detected
Hexachlorobutadiene	3.0	Not Detected	32	Not Detected
Acetone	3.0	19	7.1	46
Carbon Disulfide	0.74	Not Detected	2.3	Not Detected
2-Propanol	3.0	Not Detected	7.3	Not Detected
trans-1,2-Dichloroethene	0.74	Not Detected	3.0	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.74	5.7	2.2	17
Tetrahydrofuran	0.74	Not Detected	2.2	Not Detected
1,4-Dioxane	3.0	Not Detected	11	Not Detected
4-Methyl-2-pentanone	0.74	Not Detected	3.0	Not Detected
2-Hexanone	3.0	Not Detected	12	Not Detected
Bromoform	0.74	Not Detected	7.7	Not Detected
4-Ethyltoluene	0.74	Not Detected	3.7	Not Detected
Ethanol	3.0	9.2	5.6	17
Methyl tert-butyl ether	0.74	Not Detected	2.7	Not Detected
3-Chloropropene	3.0	Not Detected	9.3	Not Detected
2,2,4-Trimethylpentane	0.74	Not Detected	3.5	Not Detected
Naphthalene	3.0	Not Detected	16	Not Detected

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

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	99	70-130
1,2-Dichloroethane-d4	94	70-130
4-Bromofluorobenzene	101	70-130

Air Toxics Ltd.

AMBIENT AIR METHOD TO14/TO15

Data file : /chem/msdz.i/24May2007.b/z052406.d
Lab Smp Id: 0705332-01A
Inj Date : 24-MAY-2007 13:01
Operator : ea Inst ID: msdz.i
Smp Info : 500ml #35996
Misc Info : 3.0"Hg-5psi GEI
Comment :
Method : /chem/msdz.i/24May2007.b/t14q523a.m
Meth Date : 25-May-2007 10:10 ejakob Quant Type: ISTD
Cal Date : 23-MAY-2007 21:52 Cal File: z052313.d
Als bottle: 1
Dil Factor: 1.49000
Integrator: HP RTE Compound Sublist: AT06Q.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				CONCENTRATIONS ON-COL	FINAL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
* 39 Bromochloromethane					CAS #: 74-97-5		
13.636	13.635 (1.000)	130	154464	10.0000		80.00- 120.00	100.00
13.636	13.635 (1.000)	128	120846			0.00- 30.00	78.24
13.636	13.635 (1.000)	49	268239			0.00- 30.00	173.66
* 52 1,4-Difluorobenzene					CAS #: 540-36-3		
14.887	14.887 (1.000)	114	750239	10.0000		80.00- 120.00	100.00
14.887	14.887 (1.000)	88	123859			0.00- 30.00	16.51
* 68 Chlorobenzene-d5					CAS #: 3114-55-4		
19.141	19.141 (1.000)	117	882686	10.0000		80.00- 120.00	100.00
19.141	19.141 (1.000)	82	499427			0.00- 30.00	56.58
$ 47 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
14.393	14.393 (1.056)	65	279410	9.43275	9.433	80.00- 120.00	100.00
14.393	14.393 (1.056)	67	134240			0.00- 30.00	48.04
$ 59 Toluene-d8					CAS #: 2037-26-5		
17.083	17.083 (1.148)	98	746732	9.89532	9.895	80.00- 120.00	100.00
17.083	17.083 (1.148)	70	86311			0.00- 30.00	11.56

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
$ 59 Toluene-d8 (continued)							
17.083	17.083 (1.148)	100	503887			37.23- 97.23	67.48
$ 77 Bromofluorobenzene					CAS #: 460-00-4		
20.600	20.600 (1.076)	174	505426	10.0706	10.070	80.00- 120.00	100.00
20.600	20.600 (1.076)	95	767449			122.91- 182.91	151.84
20.600	20.600 (1.076)	176	486124			65.78- 125.78	96.18
14 Ethanol					CAS #: 64-17-5		
10.166	10.166 (0.746)	45	71524	6.19976	9.238	80.00- 120.00	100.00
10.166	10.166 (0.746)	43	16411			0.00- 30.00	22.95
10.166	10.166 (0.746)	46	27421			0.00- 30.00	38.34
20 Acetone					CAS #: 67-64-1		
10.767	10.767 (0.790)	58	236511	13.0467	19.440	80.00- 120.00	100.00
10.767	10.767 (0.790)	43	743173			0.00- 30.00	314.22
37 2-Butanone					CAS #: 78-93-3		
13.326	13.326 (0.977)	72	49615	3.83996	5.722	80.00- 120.00	100.00
13.326	13.326 (0.977)	43	266708			0.00- 30.00	537.55
13.326	13.326 (0.977)	57	22635			0.00- 30.00	45.62

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdz.i
Lab File ID: z052406.d
Lab Smp Id: 0705332-01A
Analysis Type: VOA
Quant Type: ISTD
Operator: ea
Method File: /chem/msdz.i/24May2007.b/t14q523a.m
Misc Info: 3.0"Hg-5psi GEI

Calibration Date: 24-MAY-2007
Calibration Time: 10:28
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
39 Bromochloromethan	163895	98337	229453	154464	-5.75
52 1,4-Difluorobenze	807212	484327	1130097	750239	-7.06
68 Chlorobenzene-d5	889943	533966	1245920	882686	-0.82

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
39 Bromochloromethan	13.64	13.31	13.97	13.64	0.00
52 1,4-Difluorobenze	14.89	14.56	15.22	14.89	0.00
68 Chlorobenzene-d5	19.14	18.81	19.47	19.14	0.00

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

Report Date: 25-May-2007 10:14

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 24May2007
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: 0705332-01A
Level: LOW Operator: ea
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: Quant Type: ISTD
Sublist File: AT06Q.sub
Method File: /chem/msdz.i/24May2007.b/t14q523a.m
Misc Info: 3.0"Hg-5psi GEI

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 47 1,2-Dichloroethane	10.000	9.433	94.33	70-130
$ 59 Toluene-d8	10.000	9.895	98.95	70-130
$ 77 Bromofluorobenzene	10.000	10.070	100.71	70-130

Data File: /chem/msdz.i/24May2007.b/z052406.d

Date : 24-MAY-2007 13:01

Client ID:

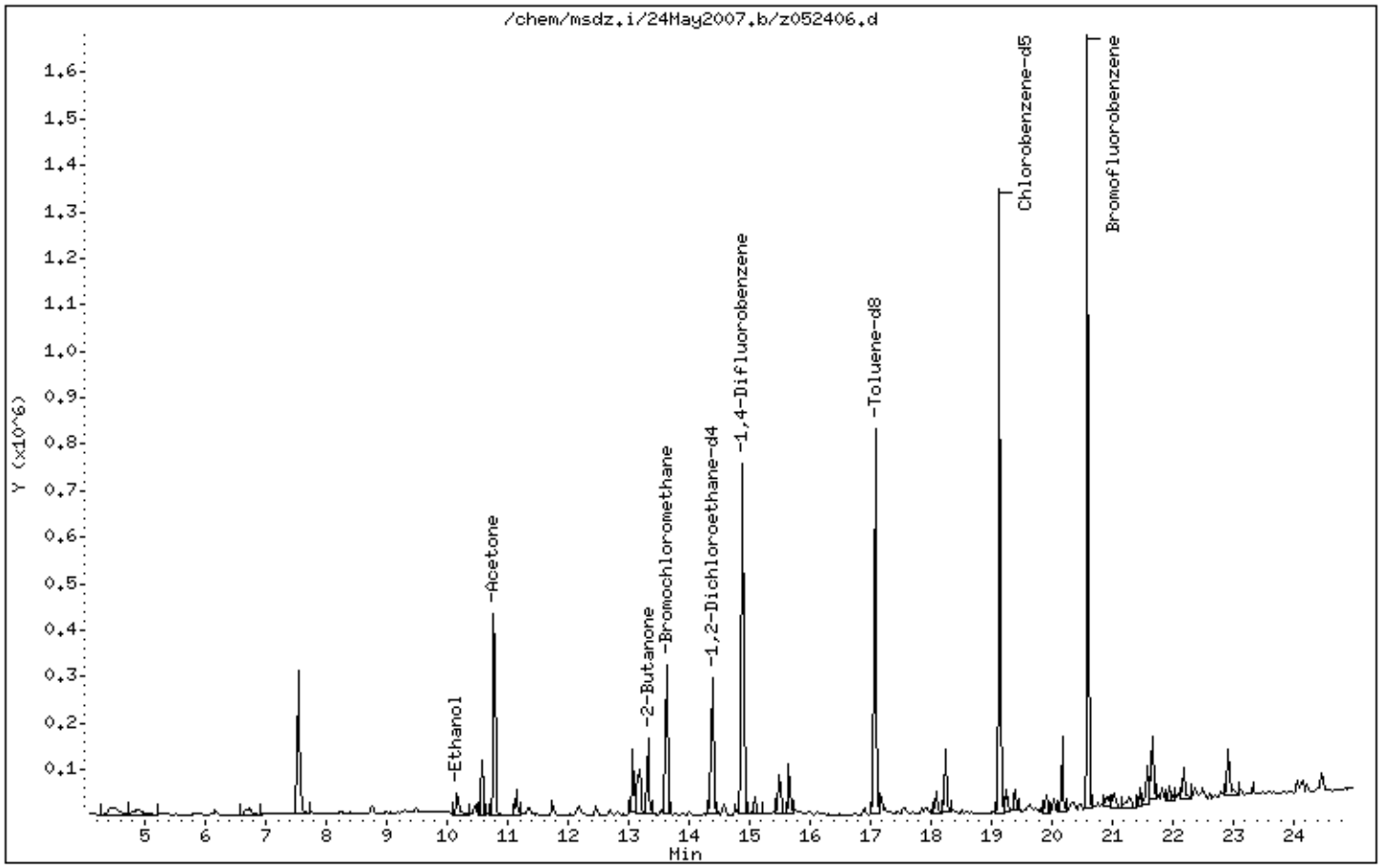
Instrument: msdz.i

Sample Info: 500ml #35996

Operator: ea

Column phase: RTx-624

Column diameter: 0.32



Data File: /chem/msdz.i/24May2007.b/z052406.d

Date : 24-MAY-2007 13:01

Client ID:

Instrument: msdz.i

Sample Info: 500ml #35996

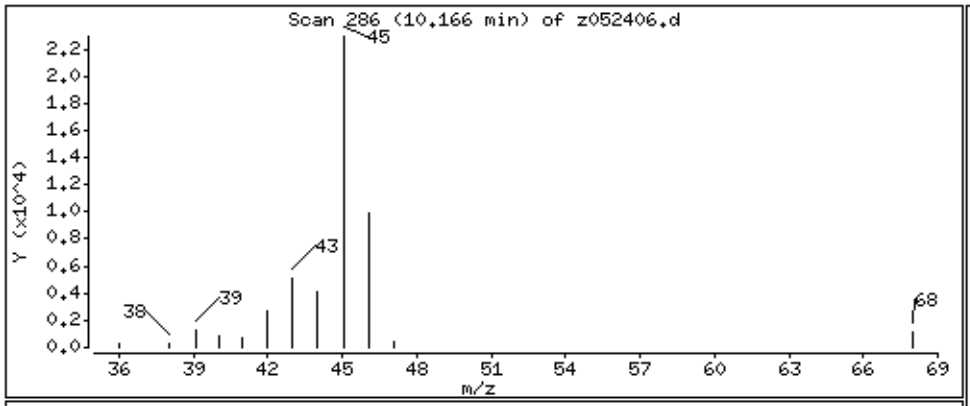
Operator: ea

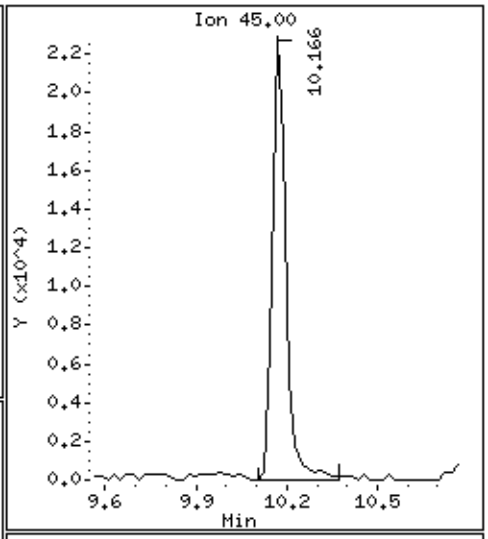
Column phase: RTx-624

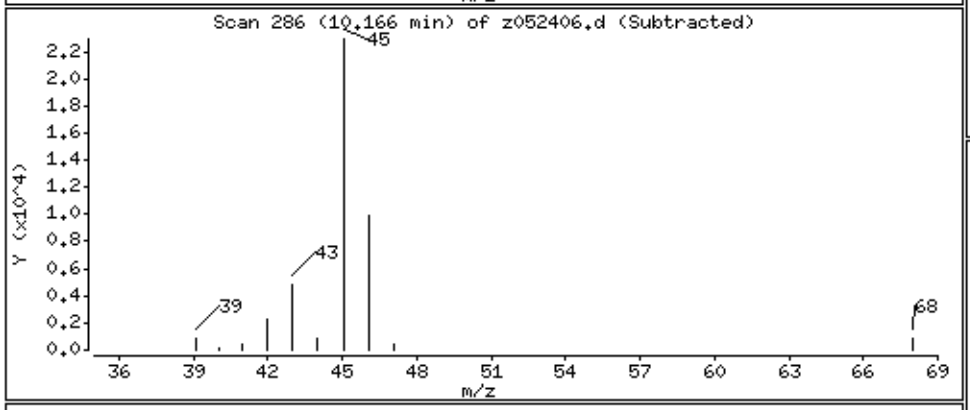
Column diameter: 0.32

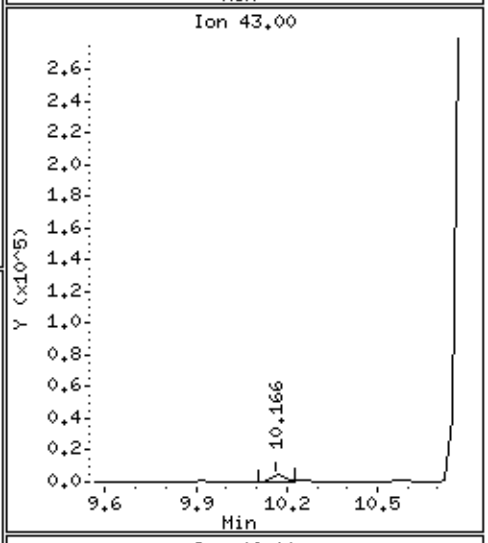
14 Ethanol

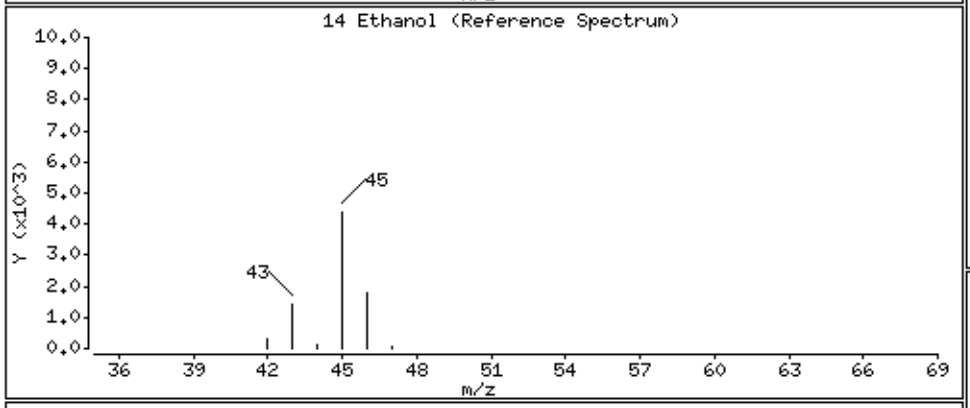
Concentration: 9.238 PPBV

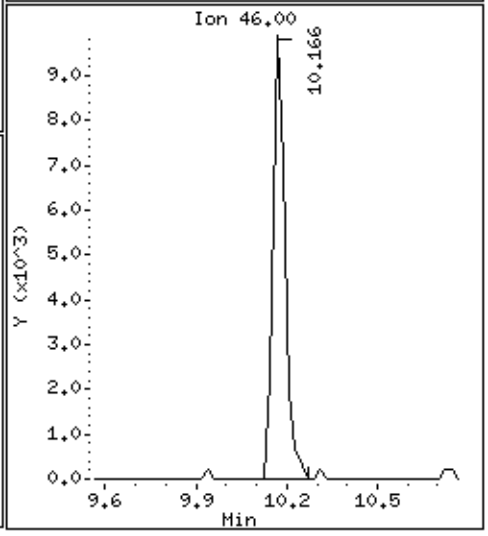


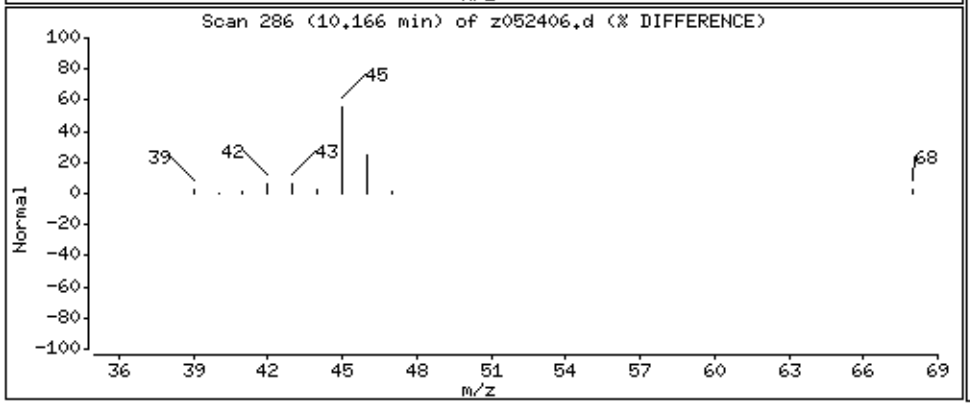












Data File: /chem/msdz.i/24May2007.b/z052406.d

Date : 24-MAY-2007 13:01

Client ID:

Instrument: msdz.i

Sample Info: 500ml #35996

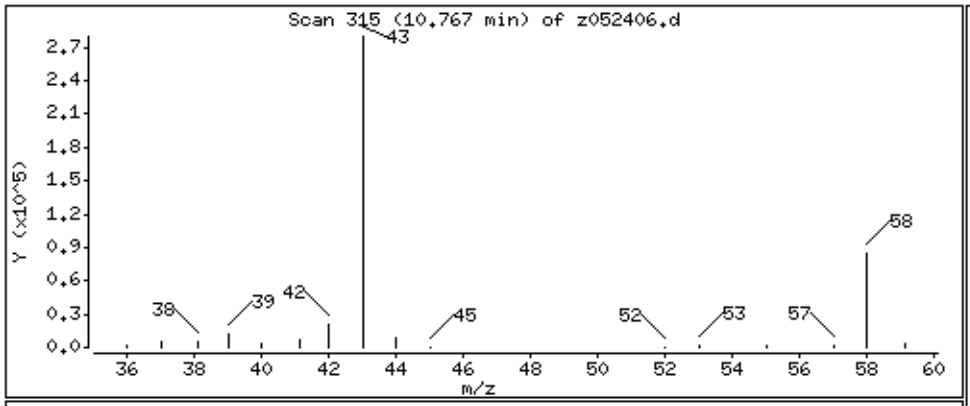
Operator: ea

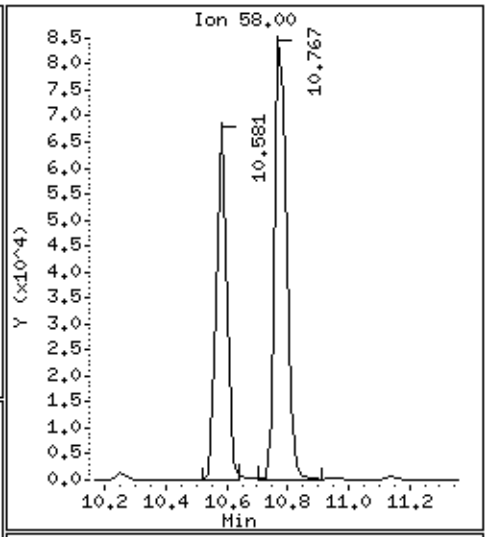
Column phase: RTx-624

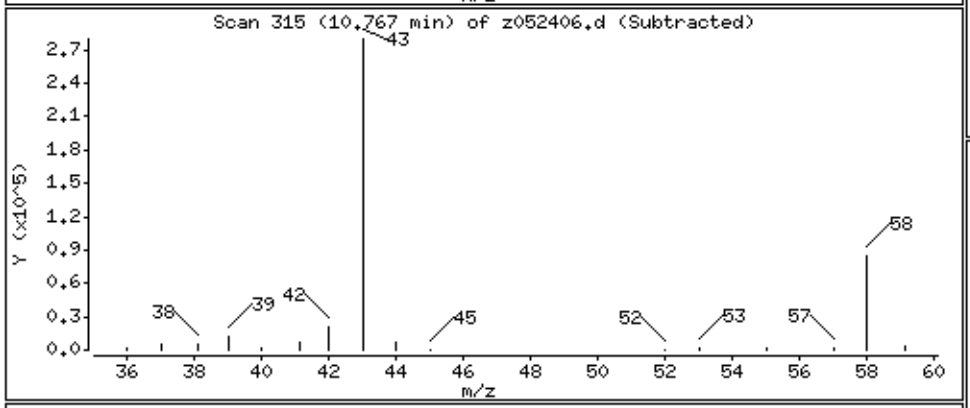
Column diameter: 0.32

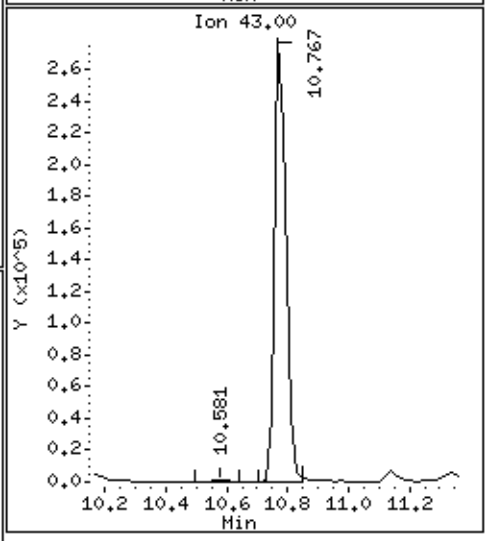
20 Acetone

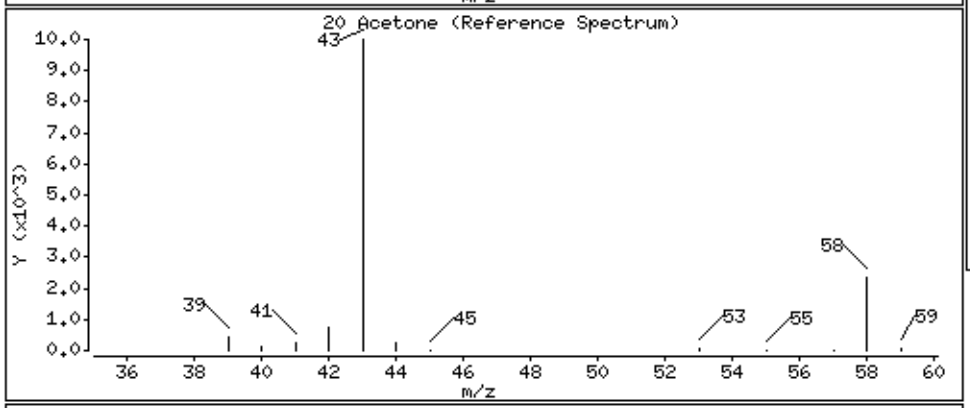
Concentration: 19.440 PPBV

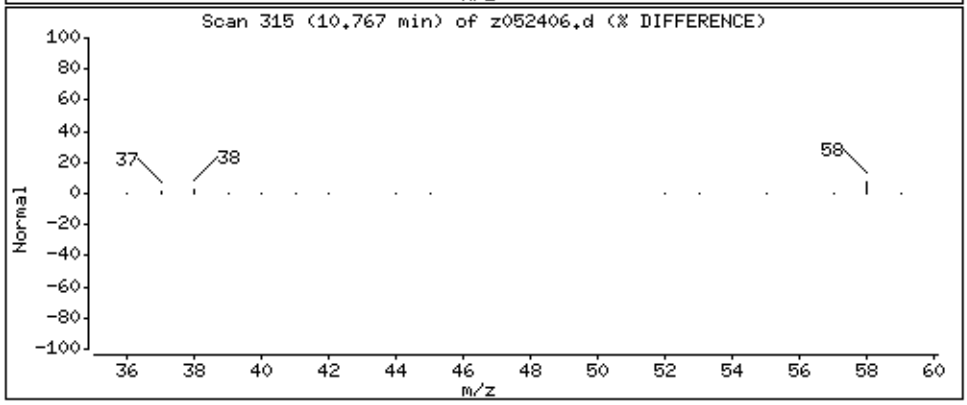












Data File: /chem/msdz.i/24May2007.b/z052406.d

Date : 24-MAY-2007 13:01

Client ID:

Instrument: msdz.i

Sample Info: 500ml #35996

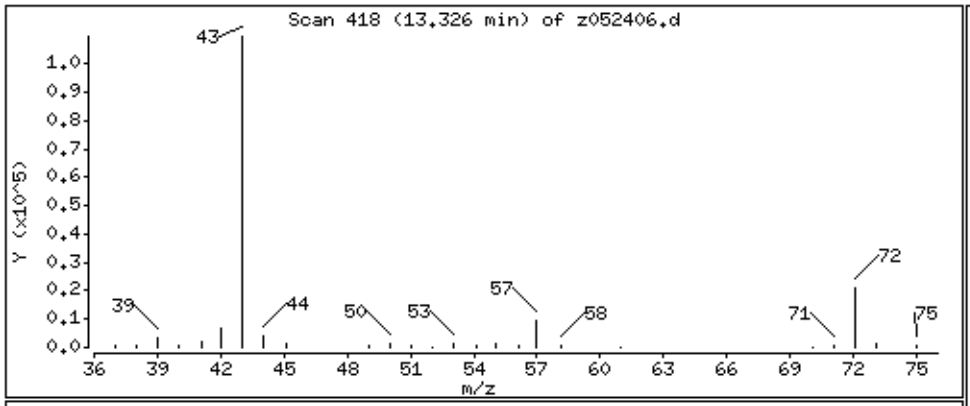
Operator: ea

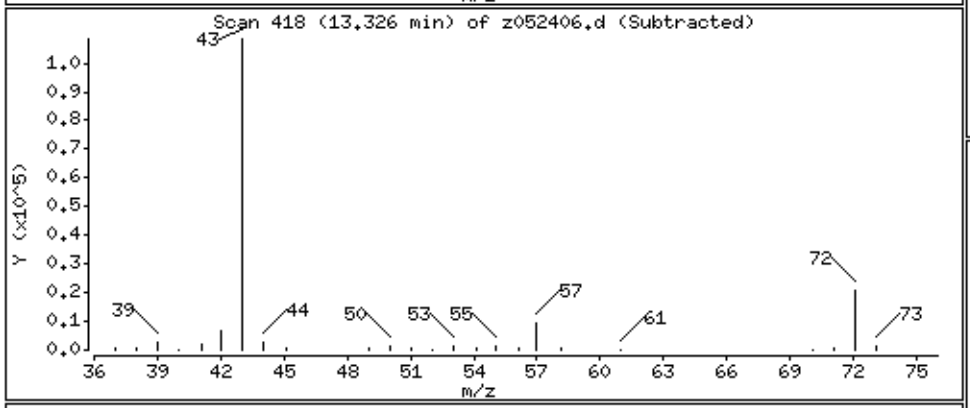
Column phase: RTx-624

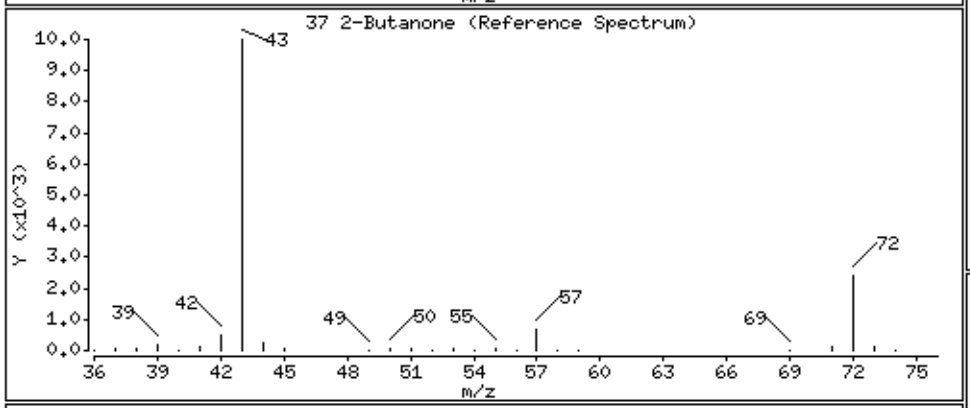
Column diameter: 0.32

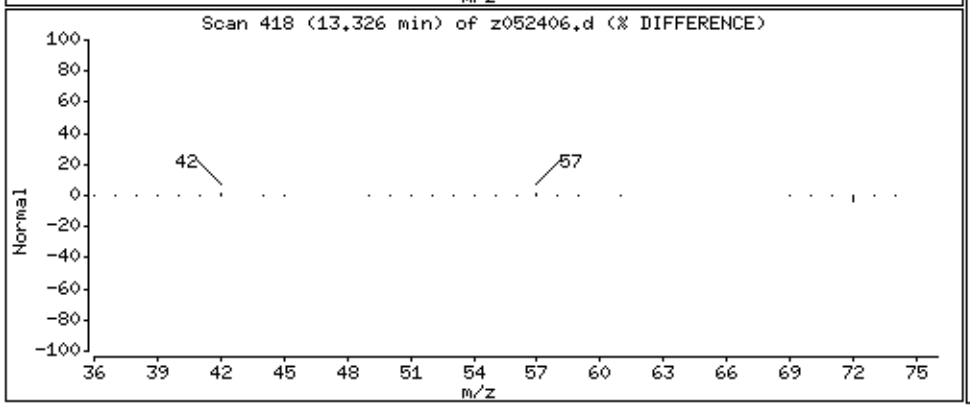
37 2-Butanone

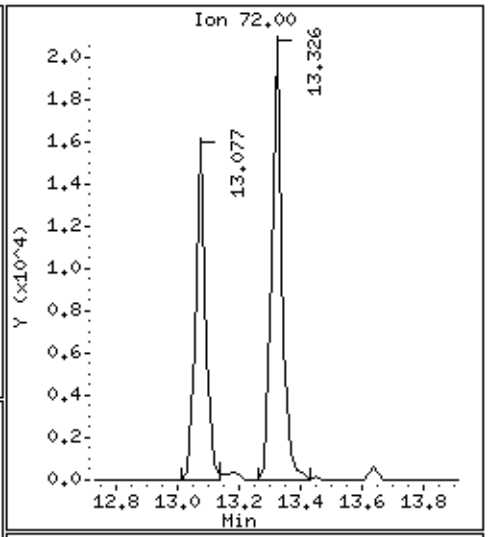
Concentration: 5.722 PPBV

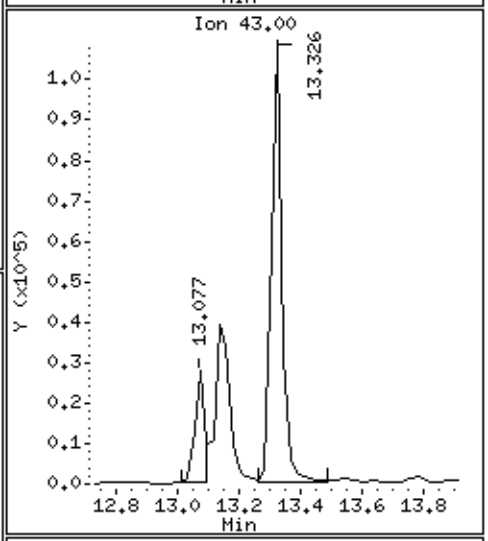


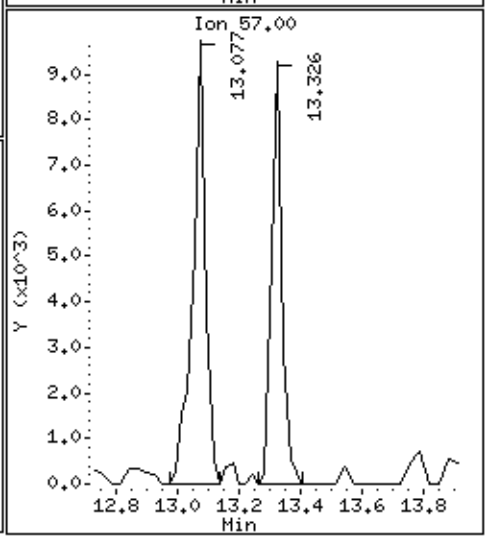












AN ENVIRONMENTAL ANALYTICAL LABORATORY

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

Client Sample ID: BS051007AMS01 DW Lab Duplicate

Lab ID#: 0705332-01AA

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Acetone	3.0	17	7.1	40
2-Butanone (Methyl Ethyl Ketone)	0.74	5.1	2.2	15
Ethanol	3.0	7.7	5.6	14

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: BS051007AMS01 DW Lab Duplicate

Lab ID#: 0705332-01AA

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**z052408**	**Date of Collection:**	**5/10/07**
Dil. Factor:	**1.49**	**Date of Analysis:**	**5/24/07 02:59 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	0.74	Not Detected	3.7	Not Detected
Freon 114	0.74	Not Detected	5.2	Not Detected
Vinyl Chloride	0.74	Not Detected	1.9	Not Detected
Bromomethane	0.74	Not Detected	2.9	Not Detected
Chloroethane	0.74	Not Detected	2.0	Not Detected
Freon 11	0.74	Not Detected U J	4.2	Not Detected U J
1,1-Dichloroethene	0.74	Not Detected	3.0	Not Detected
Freon 113	0.74	Not Detected	5.7	Not Detected
Methylene Chloride	0.74	Not Detected	2.6	Not Detected
1,1-Dichloroethane	0.74	Not Detected	3.0	Not Detected
cis-1,2-Dichloroethene	0.74	Not Detected	3.0	Not Detected
Chloroform	0.74	Not Detected	3.6	Not Detected
1,1,1-Trichloroethane	0.74	Not Detected	4.1	Not Detected
Carbon Tetrachloride	0.74	Not Detected	4.7	Not Detected
Benzene	0.74	Not Detected	2.4	Not Detected
1,2-Dichloroethane	0.74	Not Detected	3.0	Not Detected
Trichloroethene	0.74	Not Detected	4.0	Not Detected
1,2-Dichloropropane	0.74	Not Detected	3.4	Not Detected
cis-1,3-Dichloropropene	0.74	Not Detected	3.4	Not Detected
Toluene	0.74	Not Detected	2.8	Not Detected
trans-1,3-Dichloropropene	0.74	Not Detected	3.4	Not Detected
1,1,2-Trichloroethane	0.74	Not Detected	4.1	Not Detected
Tetrachloroethene	0.74	Not Detected	5.0	Not Detected
1,2-Dibromoethane (EDB)	0.74	Not Detected	5.7	Not Detected
Chlorobenzene	0.74	Not Detected	3.4	Not Detected
Ethyl Benzene	0.74	Not Detected	3.2	Not Detected
m,p-Xylene	0.74	Not Detected	3.2	Not Detected
o-Xylene	0.74	Not Detected	3.2	Not Detected
Styrene	0.74	Not Detected	3.2	Not Detected
1,1,2,2-Tetrachloroethane	0.74	Not Detected	5.1	Not Detected
1,3,5-Trimethylbenzene	0.74	Not Detected	3.7	Not Detected
1,2,4-Trimethylbenzene	0.74	Not Detected	3.7	Not Detected
1,3-Dichlorobenzene	0.74	Not Detected	4.5	Not Detected
1,4-Dichlorobenzene	0.74	Not Detected	4.5	Not Detected
alpha-Chlorotoluene	0.74	Not Detected	3.8	Not Detected
1,2-Dichlorobenzene	0.74	Not Detected	4.5	Not Detected
1,3-Butadiene	0.74	Not Detected	1.6	Not Detected
Hexane	0.74	Not Detected	2.6	Not Detected
Cyclohexane	0.74	Not Detected	2.6	Not Detected

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: BS051007AMS01 DW Lab Duplicate

Lab ID#: 0705332-01AA

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**z052408**	**Date of Collection: 5/10/07**	
Dil. Factor:	**1.49**	**Date of Analysis: 5/24/07 02:59 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Heptane	0.74	Not Detected	3.0	Not Detected
Bromodichloromethane	0.74	Not Detected	5.0	Not Detected
Dibromochloromethane	0.74	Not Detected	6.3	Not Detected
Cumene	0.74	Not Detected	3.7	Not Detected
Propylbenzene	0.74	Not Detected	3.7	Not Detected
Chloromethane	3.0	Not Detected	6.2	Not Detected
1,2,4-Trichlorobenzene	3.0	Not Detected	22	Not Detected
Hexachlorobutadiene	3.0	Not Detected	32	Not Detected
Acetone	3.0	17	7.1	40
Carbon Disulfide	0.74	Not Detected	2.3	Not Detected
2-Propanol	3.0	Not Detected	7.3	Not Detected
trans-1,2-Dichloroethene	0.74	Not Detected	3.0	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.74	5.1	2.2	15
Tetrahydrofuran	0.74	Not Detected	2.2	Not Detected
1,4-Dioxane	3.0	Not Detected	11	Not Detected
4-Methyl-2-pentanone	0.74	Not Detected	3.0	Not Detected
2-Hexanone	3.0	Not Detected	12	Not Detected
Bromoform	0.74	Not Detected	7.7	Not Detected
4-Ethyltoluene	0.74	Not Detected	3.7	Not Detected
Ethanol	3.0	7.7	5.6	14
Methyl tert-butyl ether	0.74	Not Detected	2.7	Not Detected
3-Chloropropene	3.0	Not Detected	9.3	Not Detected
2,2,4-Trimethylpentane	0.74	Not Detected	3.5	Not Detected
Naphthalene	3.0	Not Detected	16	Not Detected

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

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	98	70-130
1,2-Dichloroethane-d4	95	70-130
4-Bromofluorobenzene	102	70-130

Air Toxics Ltd.

AMBIENT AIR METHOD TO14/TO15

Data file : /chem/msdz.i/24May2007.b/z052408.d
Lab Smp Id: 0705332-01AA
Inj Date : 24-MAY-2007 14:59
Operator : ea Inst ID: msdz.i
Smp Info : 500ml #35996
Misc Info : 3.0"Hg-5psi GEI
Comment :
Method : /chem/msdz.i/24May2007.b/t14q523a.m
Meth Date : 25-May-2007 10:10 ejakob Quant Type: ISTD
Cal Date : 23-MAY-2007 21:52 Cal File: z052313.d
Als bottle: 1
Dil Factor: 1.49000
Integrator: HP RTE Compound Sublist: AT06Q.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				CONCENTRATIONS ON-COL	FINAL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
* 39 Bromochloromethane					CAS #: 74-97-5		
13.635	13.635 (1.000)	130	159002	10.0000		80.00- 120.00	100.00
13.635	13.635 (1.000)	128	123709			0.00- 30.00	77.80
13.635	13.635 (1.000)	49	282465			0.00- 30.00	177.65
* 52 1,4-Difluorobenzene					CAS #: 540-36-3		
14.887	14.887 (1.000)	114	783505	10.0000		80.00- 120.00	100.00
14.887	14.887 (1.000)	88	126326			0.00- 30.00	16.12
* 68 Chlorobenzene-d5					CAS #: 3114-55-4		
19.141	19.141 (1.000)	117	885931	10.0000		80.00- 120.00	100.00
19.141	19.141 (1.000)	82	505129			0.00- 30.00	57.02
$ 47 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
14.392	14.393 (1.056)	65	288756	9.47004	9.470	80.00- 120.00	100.00
14.392	14.393 (1.056)	67	140241			0.00- 30.00	48.57
$ 59 Toluene-d8					CAS #: 2037-26-5		
17.083	17.083 (1.148)	98	771590	9.79061	9.791	80.00- 120.00	100.00
17.083	17.083 (1.148)	70	90435			0.00- 30.00	11.72

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
$ 59 Toluene-d8 (continued)							
17.083	17.083 (1.148)	100	521697			37.23- 97.23	67.61
$ 77 Bromofluorobenzene					CAS #: 460-00-4		
20.600	20.600 (1.076)	174	516305	10.2497	10.250	80.00- 120.00	100.00
20.600	20.600 (1.076)	95	786520			122.91- 182.91	152.34
20.600	20.600 (1.076)	176	500116			65.78- 125.78	96.86
14 Ethanol					CAS #: 64-17-5		
10.166	10.166 (0.746)	45	61137	5.14816	7.671	80.00- 120.00	100.00
10.166	10.166 (0.746)	43	13878			0.00- 30.00	22.70
10.166	10.166 (0.746)	46	23188			0.00- 30.00	37.93
20 Acetone					CAS #: 67-64-1		
10.767	10.767 (0.790)	58	212889	11.4084	16.998	80.00- 120.00	100.00
10.767	10.767 (0.790)	43	668118			0.00- 30.00	313.83
37 2-Butanone					CAS #: 78-93-3		
13.326	13.326 (0.977)	72	45895	3.45067	5.141	80.00- 120.00	100.00
13.326	13.326 (0.977)	43	249133			0.00- 30.00	542.82
13.326	13.326 (0.977)	57	19434			0.00- 30.00	42.34

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdz.i
Lab File ID: z052408.d
Lab Smp Id: 0705332-01AA
Analysis Type: VOA
Quant Type: ISTD
Operator: ea
Method File: /chem/msdz.i/24May2007.b/t14q523a.m
Misc Info: 3.0"Hg-5psi GEI

Calibration Date: 24-MAY-2007
Calibration Time: 10:28
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
39 Bromochloromethan	163895	98337	229453	159002	-2.99
52 1,4-Difluorobenze	807212	484327	1130097	783505	-2.94
68 Chlorobenzene-d5	889943	533966	1245920	885931	-0.45

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
39 Bromochloromethan	13.64	13.31	13.97	13.64	0.00
52 1,4-Difluorobenze	14.89	14.56	15.22	14.89	0.00
68 Chlorobenzene-d5	19.14	18.81	19.47	19.14	0.00

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

Report Date: 25-May-2007 10:16

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 24May2007
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: 0705332-01AA
Level: LOW Operator: ea
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: Quant Type: ISTD
Sublist File: AT06Q.sub
Method File: /chem/msdz.i/24May2007.b/t14q523a.m
Misc Info: 3.0"Hg-5psi GEI

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 47 1,2-Dichloroethane	10.000	9.470	94.70	70-130
$ 59 Toluene-d8	10.000	9.791	97.91	70-130
$ 77 Bromofluorobenzene	10.000	10.250	102.50	70-130

Data File: /chem/msdz.i/24May2007.b/z052408.d

Date : 24-MAY-2007 14:59

Client ID:

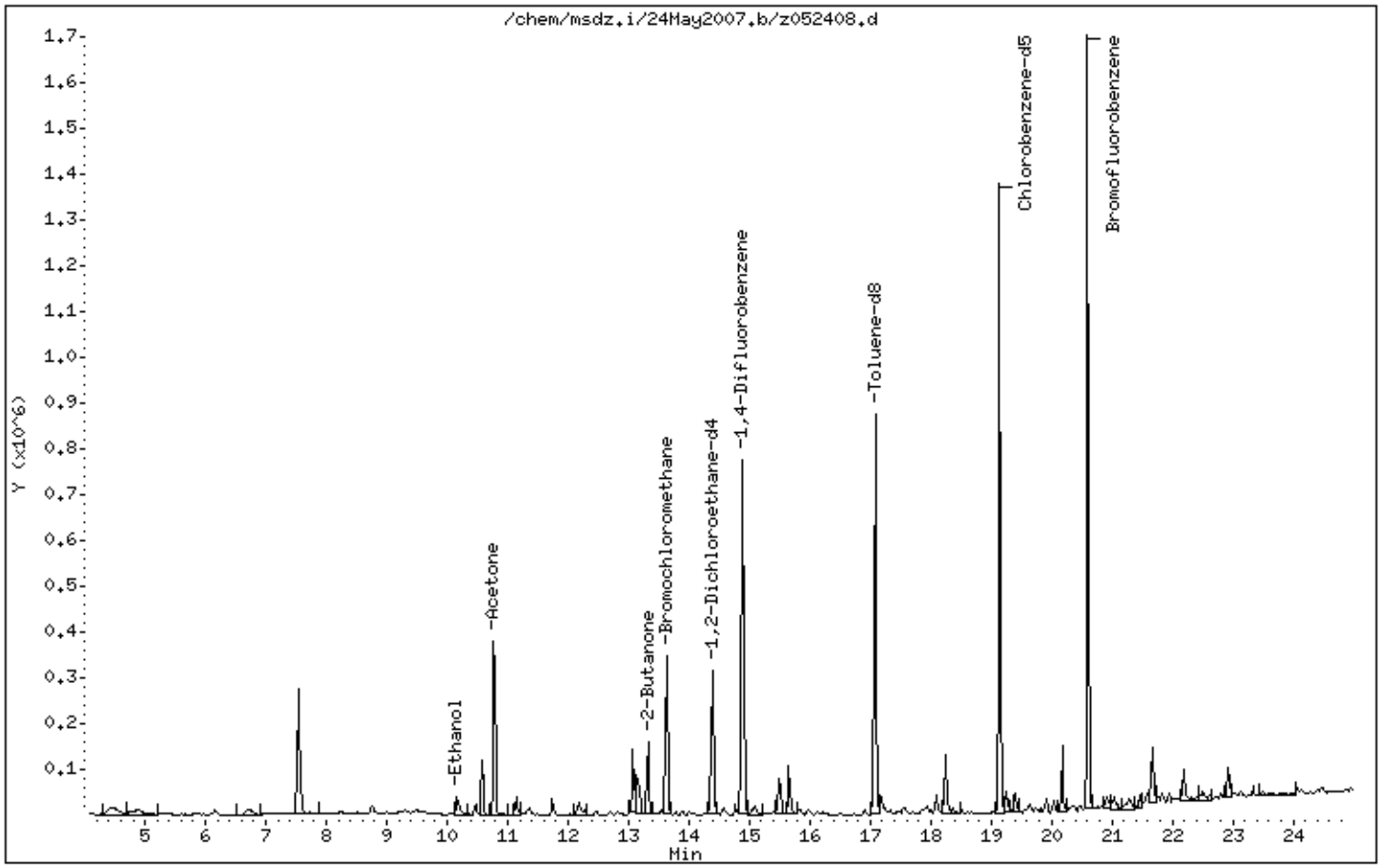
Instrument: msdz.i

Sample Info: 500ml #35996

Operator: ea

Column phase: RTx-624

Column diameter: 0.32



Data File: /chem/msdz.i/24May2007.b/z052408.d

Date : 24-MAY-2007 14:59

Client ID:

Instrument: msdz.i

Sample Info: 500ml #35996

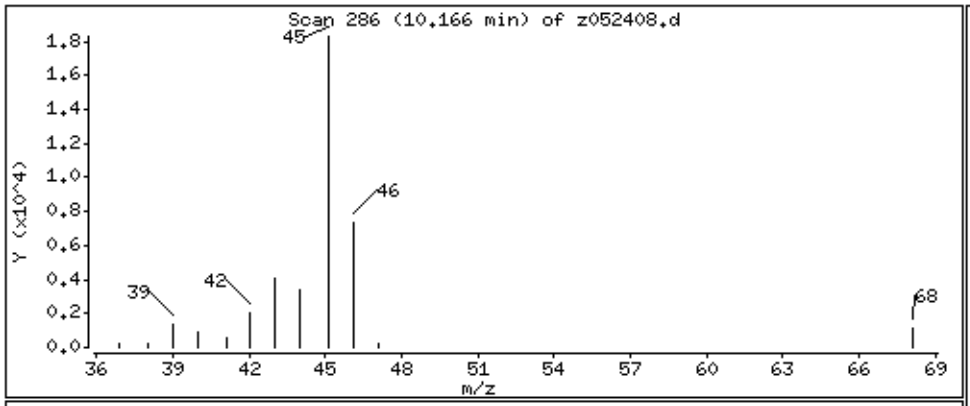
Operator: ea

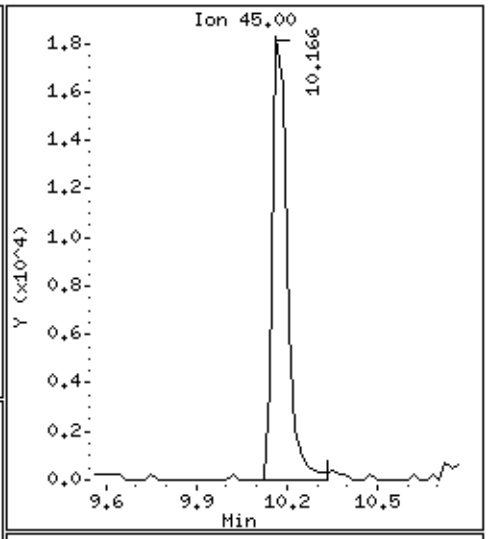
Column phase: RTx-624

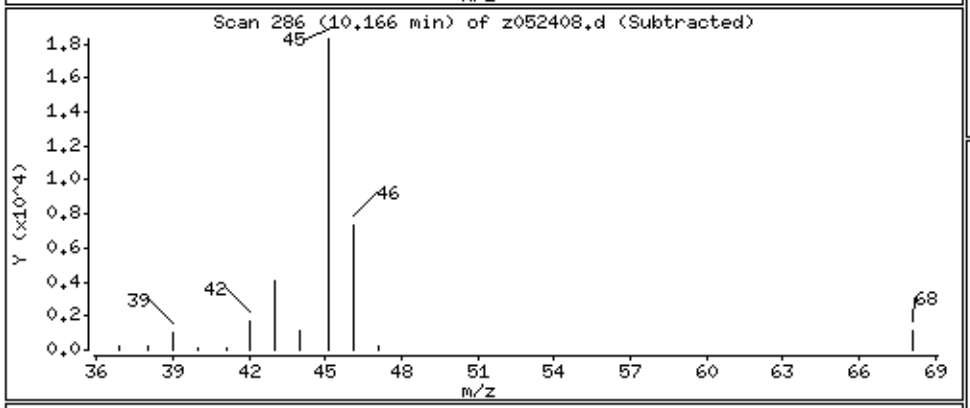
Column diameter: 0.32

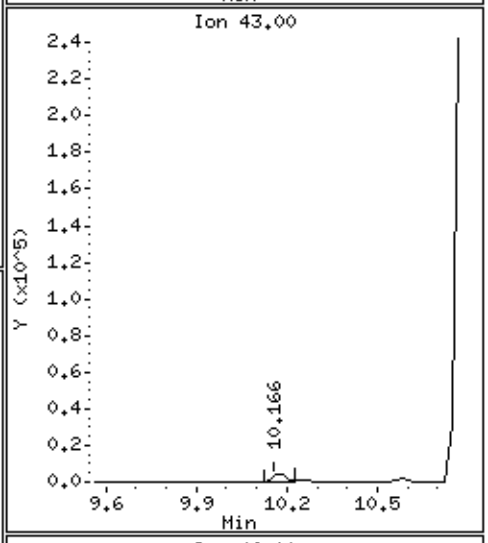
14 Ethanol

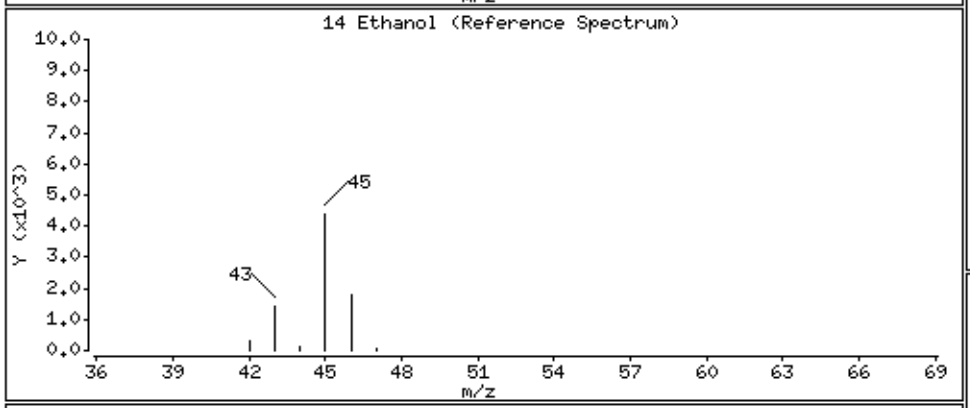
Concentration: 7.671 PPBV

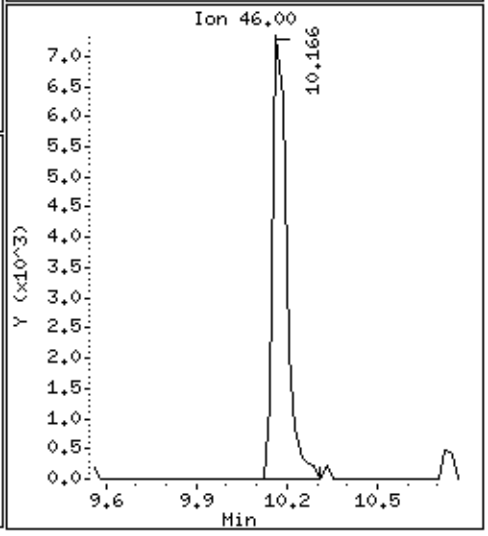


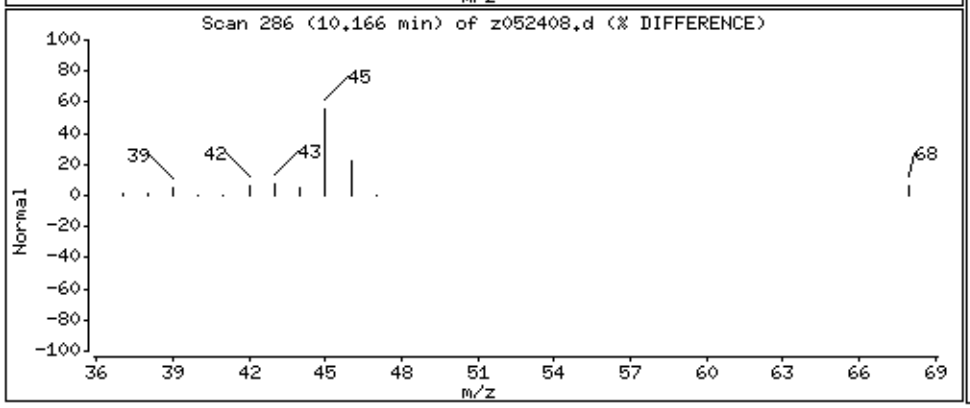












Data File: /chem/msdz.i/24May2007.b/z052408.d

Date : 24-MAY-2007 14:59

Client ID:

Instrument: msdz.i

Sample Info: 500ml #35996

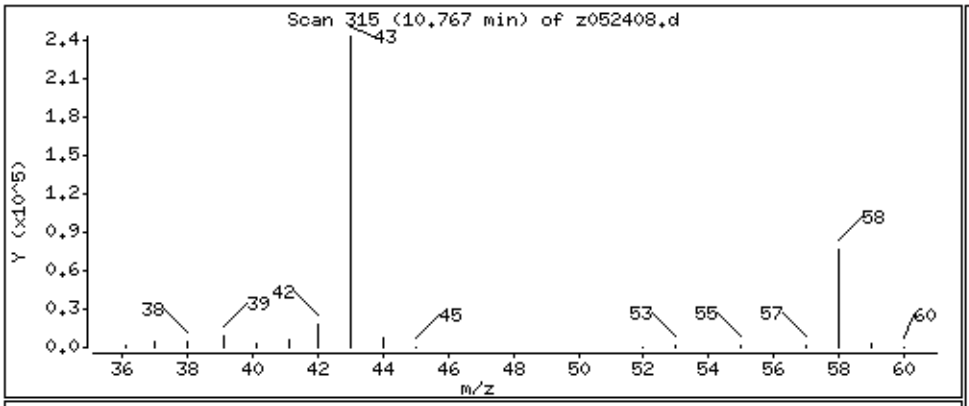
Operator: ea

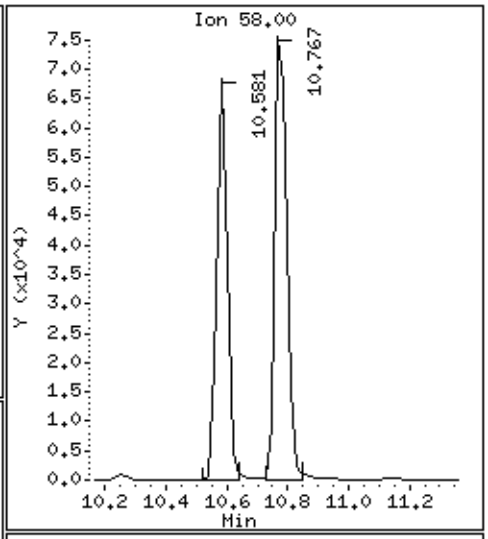
Column phase: RTx-624

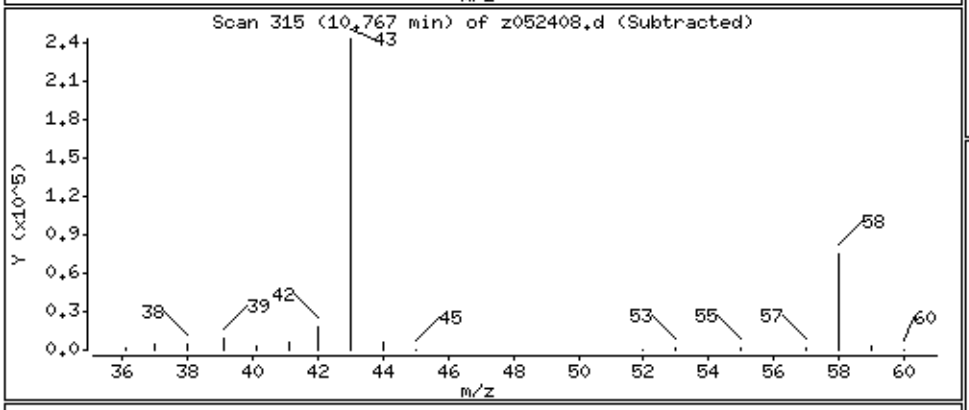
Column diameter: 0.32

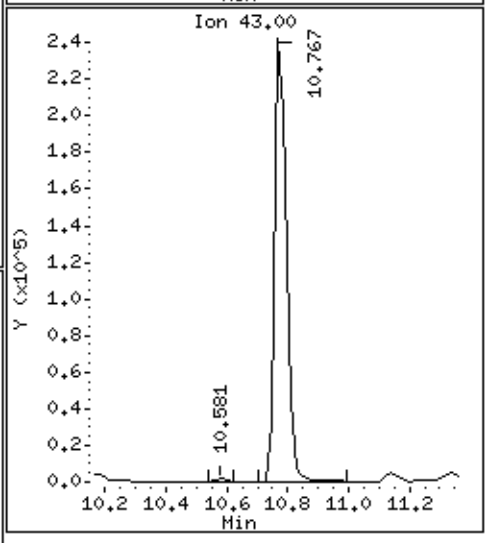
20 Acetone

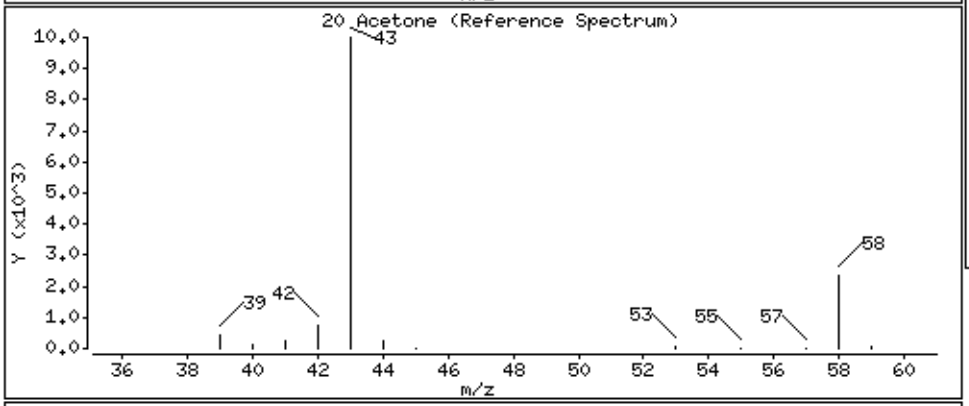
Concentration: 16.998 PPBV

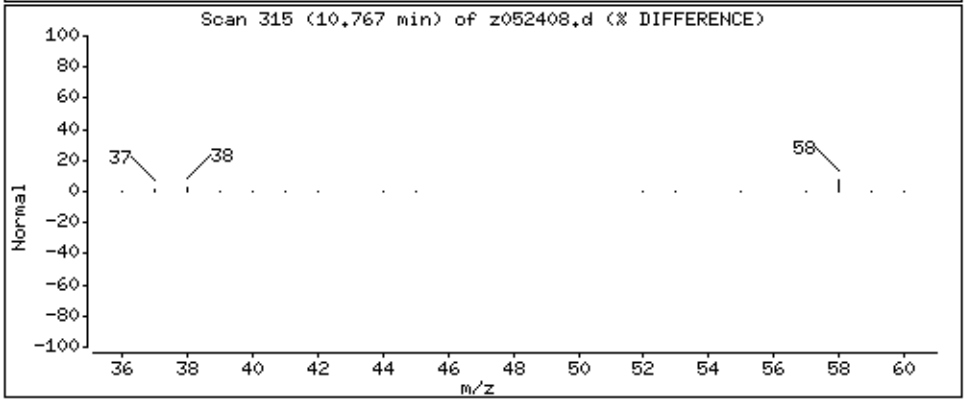












Data File: /chem/msdz.i/24May2007.b/z052408.d

Date : 24-MAY-2007 14:59

Client ID:

Instrument: msdz.i

Sample Info: 500ml #35996

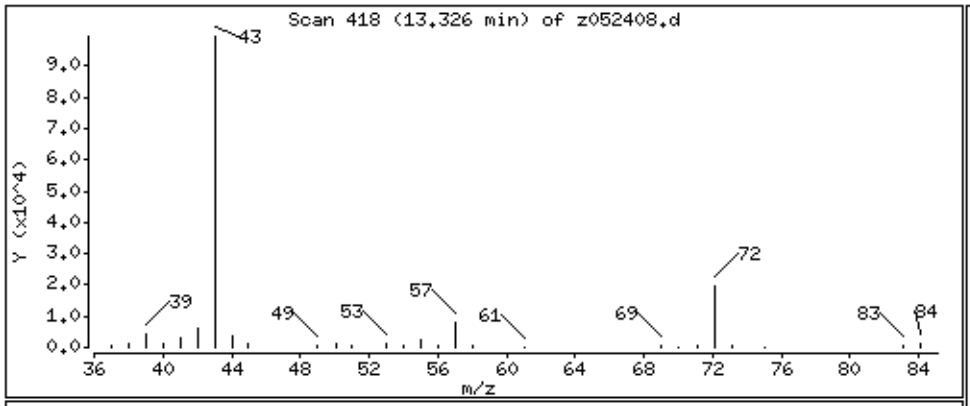
Operator: ea

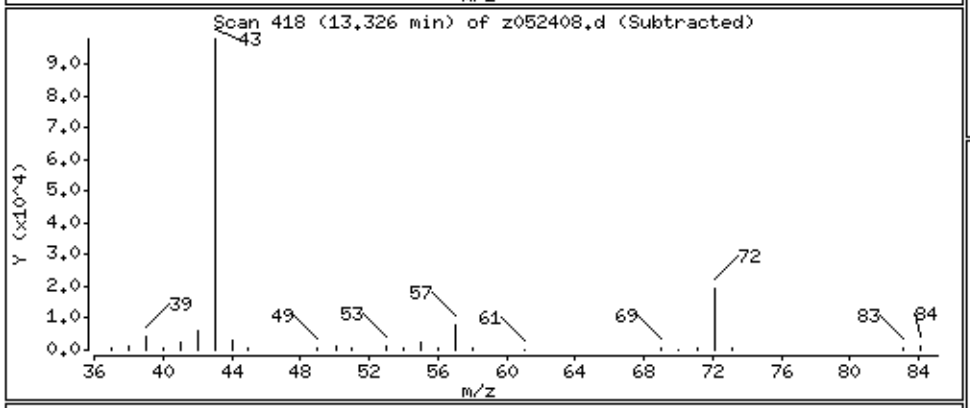
Column phase: RTx-624

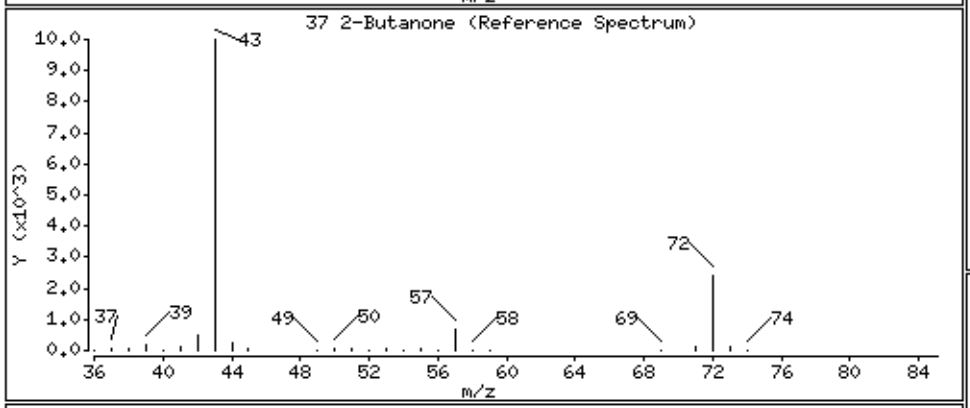
Column diameter: 0.32

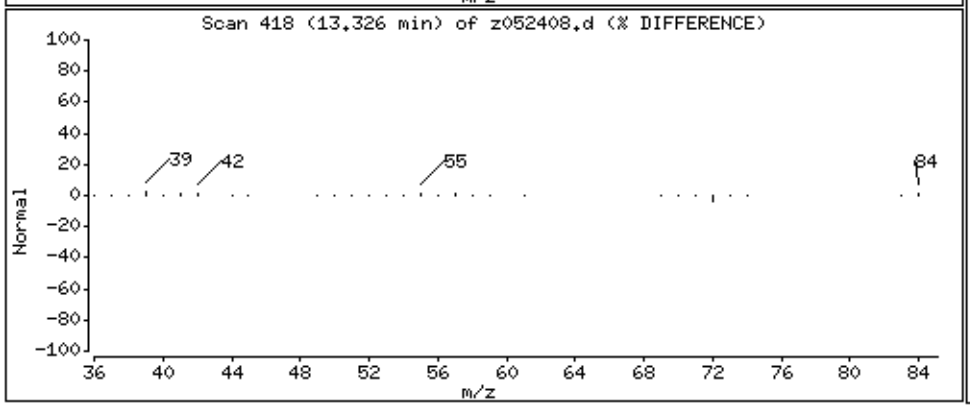
37 2-Butanone

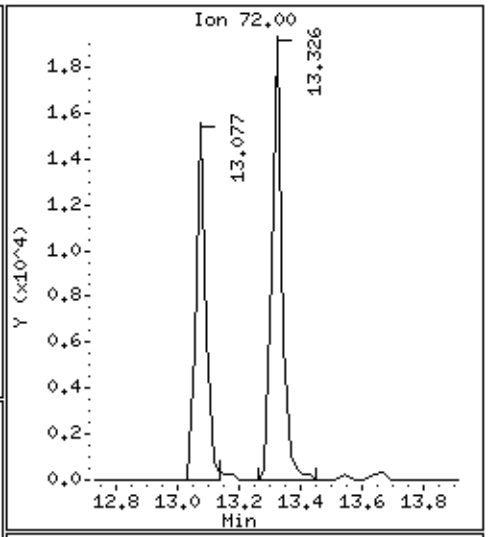
Concentration: 5.141 PPBV

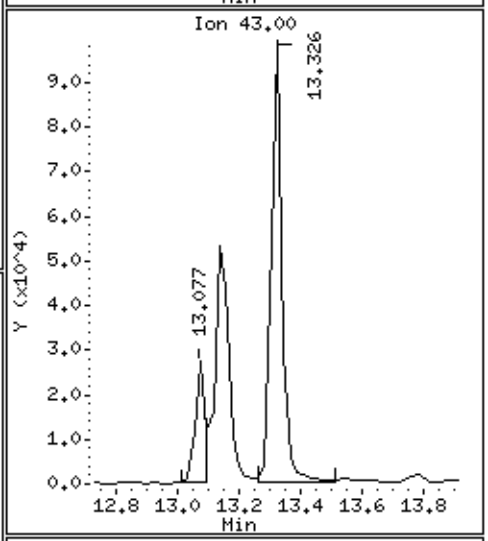


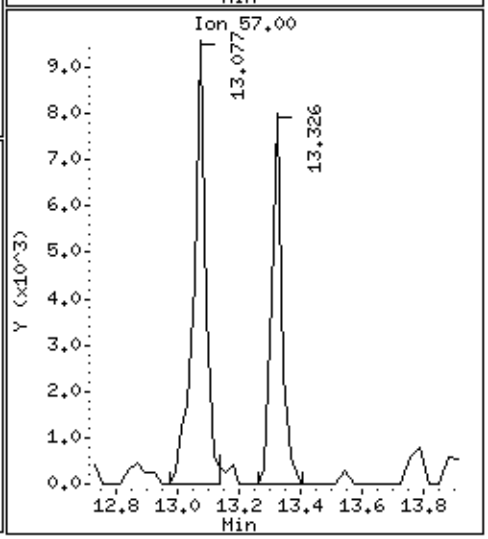












AN ENVIRONMENTAL ANALYTICAL LABORATORY

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

Client Sample ID: BS051007AMS04 UW

Lab ID#: 0705332-02A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Benzene	0.82	1.0	2.6	3.3
Toluene	0.82	3.3	3.1	12
m,p-Xylene	0.82	1.1	3.6	4.8
Hexane	0.82	0.90	2.9	3.2
Acetone	3.3	16	7.8	38
2-Propanol	3.3	4.1	8.1	10
2-Butanone (Methyl Ethyl Ketone)	0.82	5.0	2.4	15
Ethanol	3.3	15	6.2	28

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: BS051007AMS04 UW

Lab ID#: 0705332-02A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**z052407**	**Date of Collection: 5/10/07**	
Dil. Factor:	**1.64**	**Date of Analysis: 5/24/07 02:08 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	0.82	Not Detected	4.0	Not Detected
Freon 114	0.82	Not Detected	5.7	Not Detected
Vinyl Chloride	0.82	Not Detected	2.1	Not Detected
Bromomethane	0.82	Not Detected	3.2	Not Detected
Chloroethane	0.82	Not Detected	2.2	Not Detected
Freon 11	0.82	Not Detected U J	4.6	Not Detected U J
1,1-Dichloroethene	0.82	Not Detected	3.2	Not Detected
Freon 113	0.82	Not Detected	6.3	Not Detected
Methylene Chloride	0.82	Not Detected	2.8	Not Detected
1,1-Dichloroethane	0.82	Not Detected	3.3	Not Detected
cis-1,2-Dichloroethene	0.82	Not Detected	3.2	Not Detected
Chloroform	0.82	Not Detected	4.0	Not Detected
1,1,1-Trichloroethane	0.82	Not Detected	4.5	Not Detected
Carbon Tetrachloride	0.82	Not Detected	5.2	Not Detected
Benzene	0.82	1.0	2.6	3.3
1,2-Dichloroethane	0.82	Not Detected	3.3	Not Detected
Trichloroethene	0.82	Not Detected	4.4	Not Detected
1,2-Dichloropropane	0.82	Not Detected	3.8	Not Detected
cis-1,3-Dichloropropene	0.82	Not Detected	3.7	Not Detected
Toluene	0.82	3.3	3.1	12
trans-1,3-Dichloropropene	0.82	Not Detected	3.7	Not Detected
1,1,2-Trichloroethane	0.82	Not Detected	4.5	Not Detected
Tetrachloroethene	0.82	Not Detected	5.6	Not Detected
1,2-Dibromoethane (EDB)	0.82	Not Detected	6.3	Not Detected
Chlorobenzene	0.82	Not Detected	3.8	Not Detected
Ethyl Benzene	0.82	Not Detected	3.6	Not Detected
m,p-Xylene	0.82	1.1	3.6	4.8
o-Xylene	0.82	Not Detected	3.6	Not Detected
Styrene	0.82	Not Detected	3.5	Not Detected
1,1,2,2-Tetrachloroethane	0.82	Not Detected	5.6	Not Detected
1,3,5-Trimethylbenzene	0.82	Not Detected	4.0	Not Detected
1,2,4-Trimethylbenzene	0.82	Not Detected	4.0	Not Detected
1,3-Dichlorobenzene	0.82	Not Detected	4.9	Not Detected
1,4-Dichlorobenzene	0.82	Not Detected	4.9	Not Detected
alpha-Chlorotoluene	0.82	Not Detected	4.2	Not Detected
1,2-Dichlorobenzene	0.82	Not Detected	4.9	Not Detected
1,3-Butadiene	0.82	Not Detected	1.8	Not Detected
Hexane	0.82	0.90	2.9	3.2
Cyclohexane	0.82	Not Detected	2.8	Not Detected

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: BS051007AMS04 UW

Lab ID#: 0705332-02A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**z052407**	**Date of Collection: 5/10/07**	
Dil. Factor:	**1.64**	**Date of Analysis: 5/24/07 02:08 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Heptane	0.82	Not Detected	3.4	Not Detected
Bromodichloromethane	0.82	Not Detected	5.5	Not Detected
Dibromochloromethane	0.82	Not Detected	7.0	Not Detected
Cumene	0.82	Not Detected	4.0	Not Detected
Propylbenzene	0.82	Not Detected	4.0	Not Detected
Chloromethane	3.3	Not Detected	6.8	Not Detected
1,2,4-Trichlorobenzene	3.3	Not Detected	24	Not Detected
Hexachlorobutadiene	3.3	Not Detected	35	Not Detected
Acetone	3.3	16	7.8	38
Carbon Disulfide	0.82	Not Detected	2.6	Not Detected
2-Propanol	3.3	4.1	8.1	10
trans-1,2-Dichloroethene	0.82	Not Detected	3.2	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.82	5.0	2.4	15
Tetrahydrofuran	0.82	Not Detected	2.4	Not Detected
1,4-Dioxane	3.3	Not Detected	12	Not Detected
4-Methyl-2-pentanone	0.82	Not Detected	3.4	Not Detected
2-Hexanone	3.3	Not Detected	13	Not Detected
Bromoform	0.82	Not Detected	8.5	Not Detected
4-Ethyltoluene	0.82	Not Detected	4.0	Not Detected
Ethanol	3.3	15	6.2	28
Methyl tert-butyl ether	0.82	Not Detected	3.0	Not Detected
3-Chloropropene	3.3	Not Detected	10	Not Detected
2,2,4-Trimethylpentane	0.82	Not Detected	3.8	Not Detected
Naphthalene	3.3	Not Detected	17	Not Detected

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

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	98	70-130
1,2-Dichloroethane-d4	93	70-130
4-Bromofluorobenzene	101	70-130

Air Toxics Ltd.

AMBIENT AIR METHOD TO14/TO15

Data file : /chem/msdz.i/24May2007.b/z052407.d
Lab Smp Id: 0705332-02A
Inj Date : 24-MAY-2007 14:08
Operator : ea Inst ID: msdz.i
Smp Info : 500ml #35988
Misc Info : 5.5"Hg-5psi GEI
Comment :
Method : /chem/msdz.i/24May2007.b/t14q523a.m
Meth Date : 25-May-2007 10:10 ejakob Quant Type: ISTD
Cal Date : 23-MAY-2007 21:52 Cal File: z052313.d
Als bottle: 1
Dil Factor: 1.64000
Integrator: HP RTE Compound Sublist: AT06Q.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				CONCENTRATIONS ON-COL	FINAL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
==	====== ========	====	========	=======	=======	==========	=====
* 39 Bromochloromethane						CAS #: 74-97-5	
13.636	13.635 (1.000)	130	161576	10.0000		80.00- 120.00	100.00
13.636	13.635 (1.000)	128	124543			0.00- 30.00	77.08
13.636	13.635 (1.000)	49	286100			0.00- 30.00	177.07
* 52 1,4-Difluorobenzene						CAS #: 540-36-3	
14.887	14.887 (1.000)	114	776621	10.0000		80.00- 120.00	100.00
14.887	14.887 (1.000)	88	126430			0.00- 30.00	16.28
* 68 Chlorobenzene-d5						CAS #: 3114-55-4	
19.141	19.141 (1.000)	117	890663	10.0000		80.00- 120.00	100.00
19.141	19.141 (1.000)	82	510866			0.00- 30.00	57.36
$ 47 1,2-Dichloroethane-d4						CAS #: 17060-07-0	
14.393	14.393 (1.056)	65	289606	9.34661	9.347	80.00- 120.00	100.00
14.393	14.393 (1.056)	67	138856			0.00- 30.00	47.95
$ 59 Toluene-d8						CAS #: 2037-26-5	
17.083	17.083 (1.148)	98	765644	9.80127	9.801	80.00- 120.00	100.00
17.083	17.083 (1.148)	70	90302			0.00- 30.00	11.79

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
$ 59 Toluene-d8 (continued)							
17.083	17.083 (1.148)	100	519838			37.23- 97.23	67.90
$ 77 Bromofluorobenzene					CAS #: 460-00-4		
20.600	20.600 (1.076)	174	513334	10.1365	10.136	80.00- 120.00	100.00
20.600	20.600 (1.076)	95	785595			122.91- 182.91	153.04
20.600	20.600 (1.076)	176	497263			65.78- 125.78	96.87
14 Ethanol					CAS #: 64-17-5		
10.166	10.166 (0.746)	45	107748	8.92859	14.643	80.00- 120.00	100.00
10.166	10.166 (0.746)	43	28127			0.00- 30.00	26.11
10.166	10.166 (0.746)	46	42157			0.00- 30.00	39.13
20 Acetone					CAS #: 67-64-1		
10.767	10.767 (0.790)	58	185702	9.79298	16.060	80.00- 120.00	100.00
10.767	10.767 (0.790)	43	584808			0.00- 30.00	314.92
21 2-Propanol					CAS #: 67-63-0		
11.140	11.119 (0.817)	45	158261	2.48213	4.071	80.00- 120.00	100.00
11.140	11.119 (0.817)	43	32510			0.00- 30.00	20.54
11.140	11.119 (0.817)	59	5431			0.00- 30.00	3.43
30 Hexane					CAS #: 110-54-3		
12.157	12.156 (0.892)	57	32547	0.54784	0.8985	80.00- 120.00	100.00
12.184	12.156 (0.894)	43	47682			0.00- 30.00	146.50
12.157	12.156 (0.892)	86	3201			0.00- 30.00	9.84
37 2-Butanone					CAS #: 78-93-3		
13.326	13.326 (0.977)	72	40908	3.02672	4.964	80.00- 120.00	100.00
13.326	13.326 (0.977)	43	235459			0.00- 30.00	575.57
13.326	13.326 (0.977)	57	18816			0.00- 30.00	46.00
46 Benzene					CAS #: 71-43-2		
14.365	14.365 (0.965)	78	63401	0.62402	1.023	80.00- 120.00	100.00
14.365	14.365 (0.965)	77	15285			0.00- 30.00	24.11
60 Toluene					CAS #: 108-88-3		
17.173	17.173 (1.154)	91	259356	2.02653	3.324	80.00- 120.00	100.00
17.173	17.173 (1.154)	92	158380			0.00- 30.00	61.07
71 m,p-Xylene					CAS #: 108-38-3		
19.406	19.406 (1.014)	106	62686	0.67428	1.106	80.00- 120.00	100.00
19.406	19.406 (1.014)	91	125803			0.00- 30.00	200.68

Report Date: 25-May-2007 10:18

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdz.i
Lab File ID: z052407.d
Lab Smp Id: 0705332-02A
Analysis Type: VOA
Quant Type: ISTD
Operator: ea
Method File: /chem/msdz.i/24May2007.b/t14q523a.m
Misc Info: 5.5"Hg-5psi GEI

Calibration Date: 24-MAY-2007
Calibration Time: 10:28
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
39 Bromochloromethan	163895	98337	229453	161576	-1.41
52 1,4-Difluorobenze	807212	484327	1130097	776621	-3.79
68 Chlorobenzene-d5	889943	533966	1245920	890663	0.08

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
39 Bromochloromethan	13.64	13.31	13.97	13.64	0.00
52 1,4-Difluorobenze	14.89	14.56	15.22	14.89	0.00
68 Chlorobenzene-d5	19.14	18.81	19.47	19.14	0.00

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

Report Date: 25-May-2007 10:18

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 24May2007
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: 0705332-02A
Level: LOW Operator: ea
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: Quant Type: ISTD
Sublist File: AT06Q.sub
Method File: /chem/msdz.i/24May2007.b/t14q523a.m
Misc Info: 5.5"Hg-5psi GEI

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 47 1,2-Dichloroethane	10.000	9.347	93.47	70-130
$ 59 Toluene-d8	10.000	9.801	98.01	70-130
$ 77 Bromofluorobenzene	10.000	10.136	101.37	70-130

Data File: /chem/msdz.i/24May2007.b/z052407.d

Date : 24-MAY-2007 14:08

Client ID:

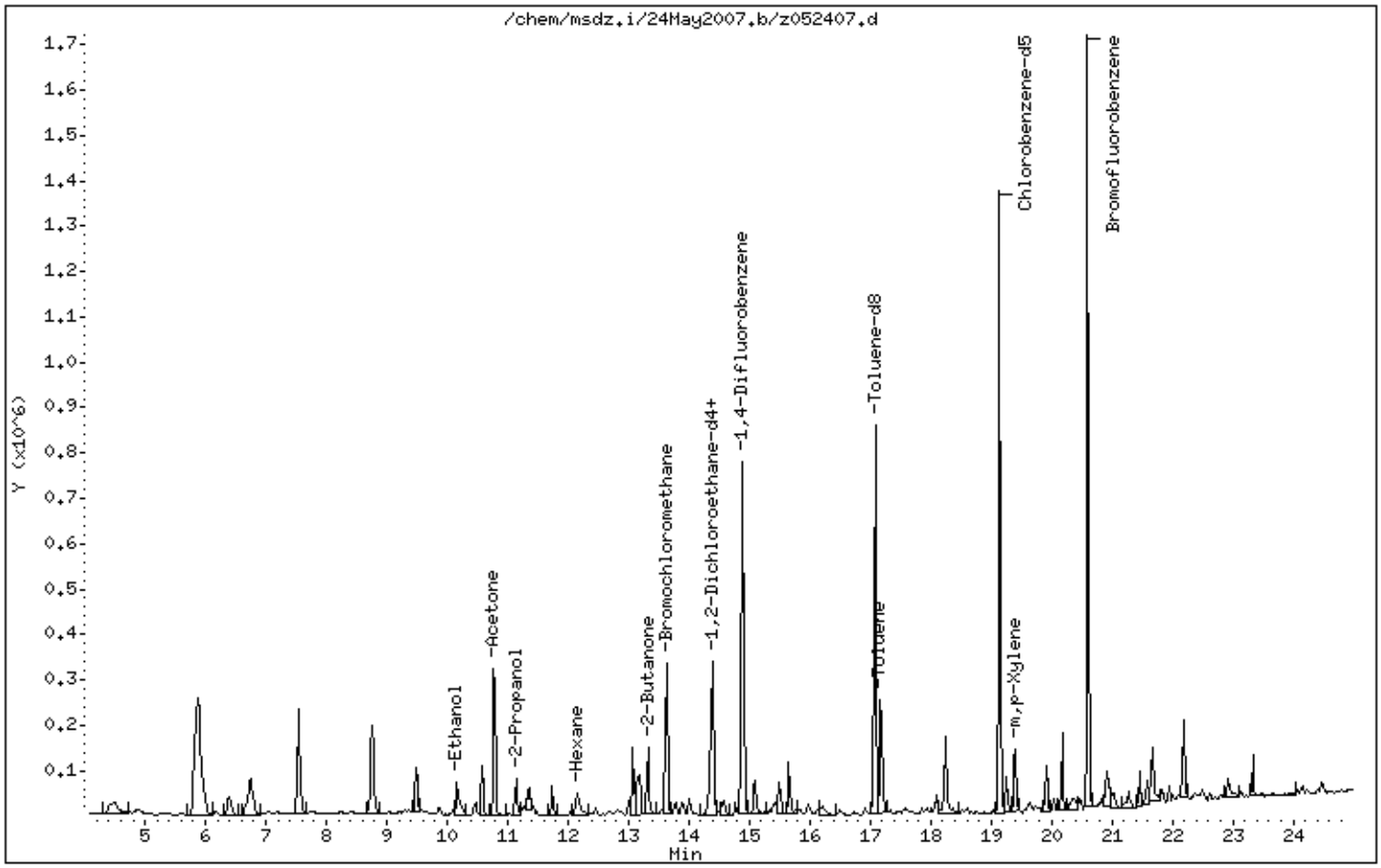
Instrument: msdz.i

Sample Info: 500ml #35988

Operator: ea

Column phase: RTx-624

Column diameter: 0.32



Data File: /chem/msdz.i/24May2007.b/z052407.d

Date : 24-MAY-2007 14:08

Client ID:

Instrument: msdz.i

Sample Info: 500ml #35988

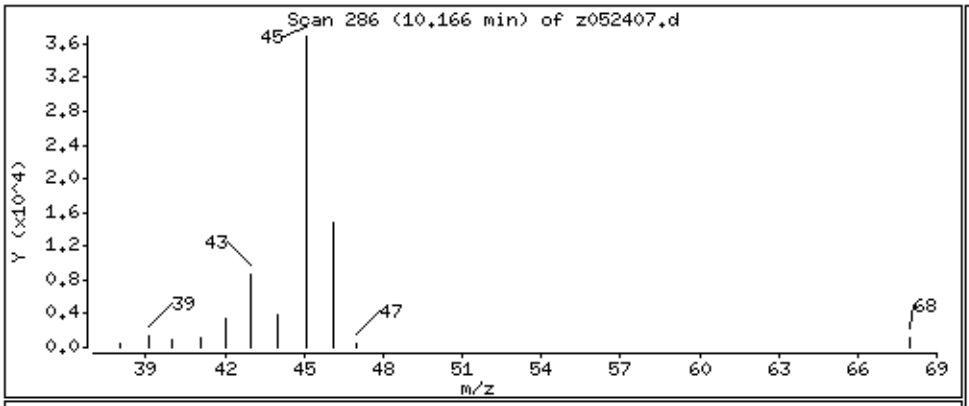
Operator: ea

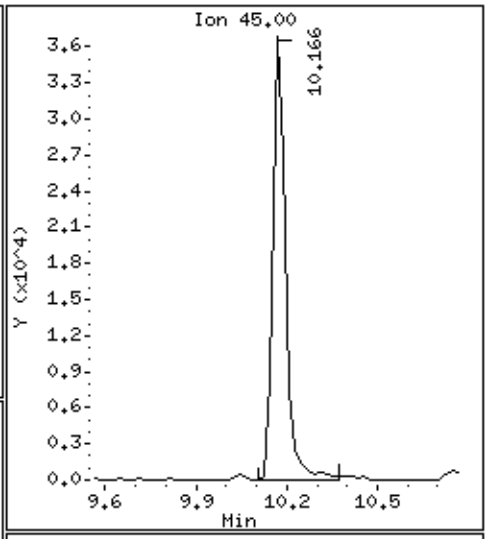
Column phase: RTx-624

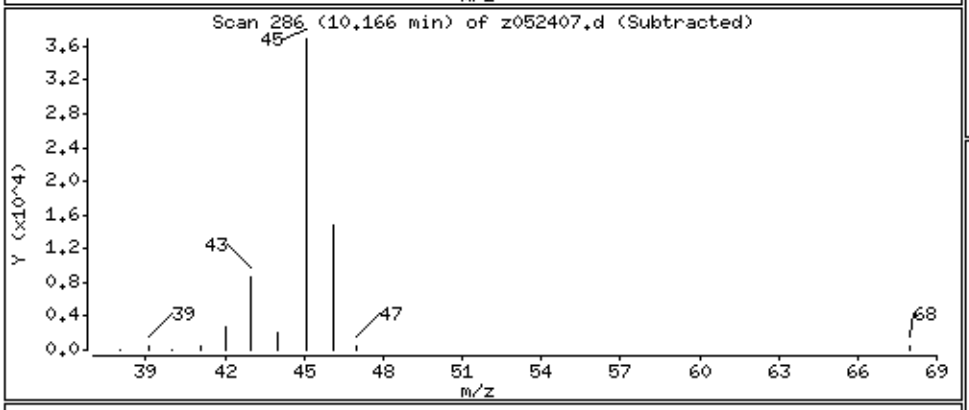
Column diameter: 0.32

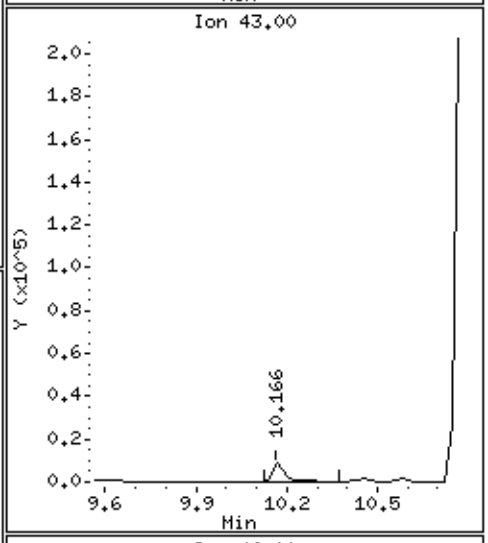
14 Ethanol

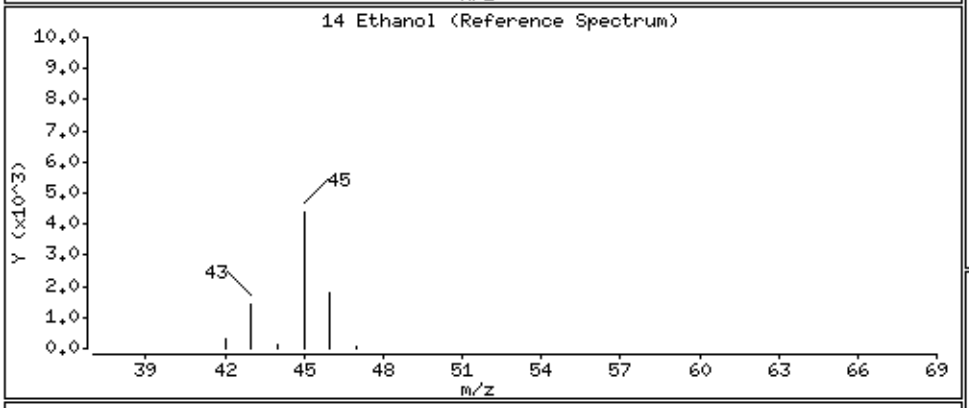
Concentration: 14.643 PPBV

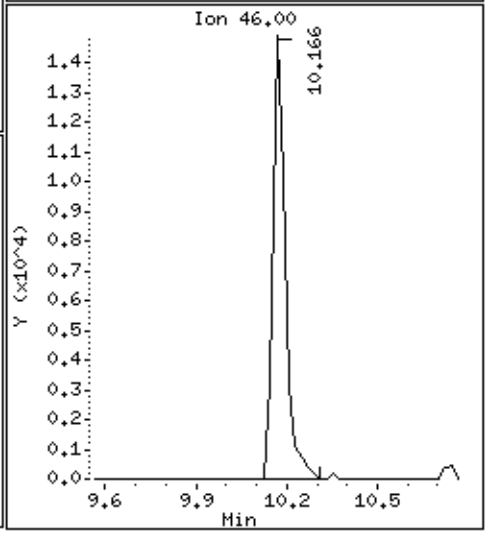


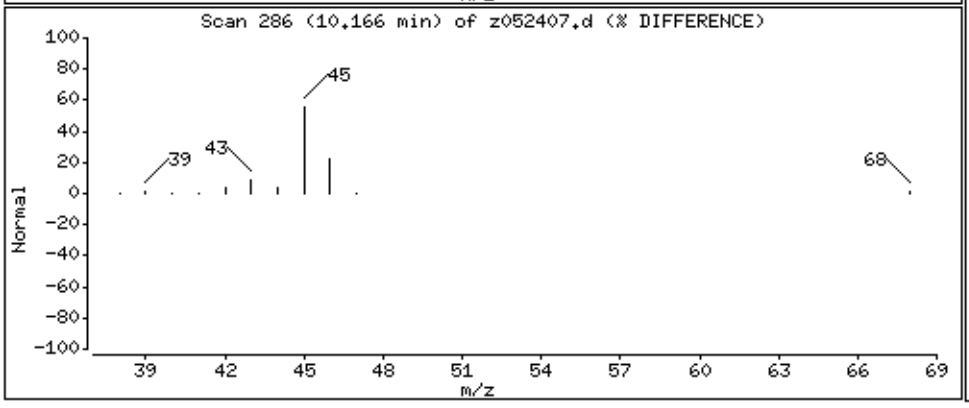












Data File: /chem/msdz.i/24May2007.b/z052407.d

Date : 24-MAY-2007 14:08

Client ID:

Instrument: msdz.i

Sample Info: 500ml #35988

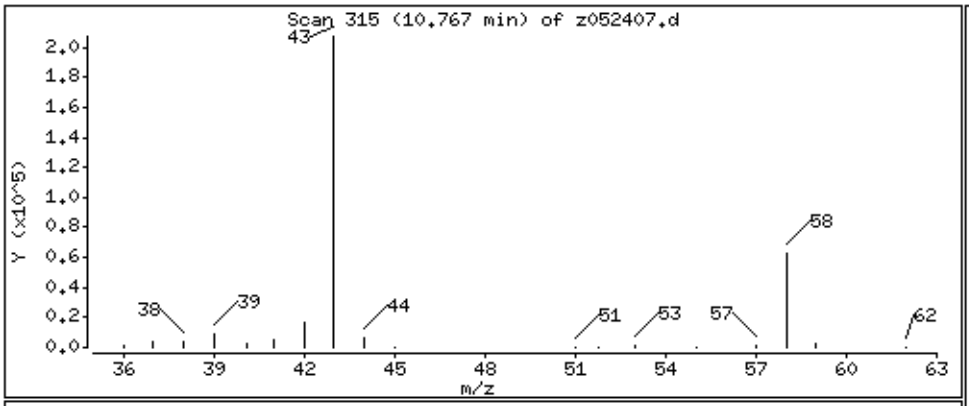
Operator: ea

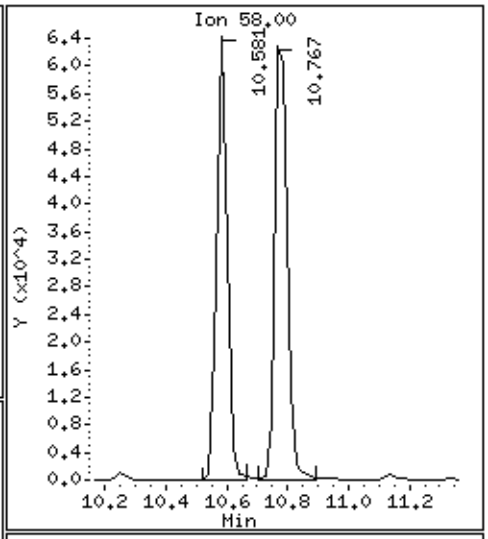
Column phase: RTx-624

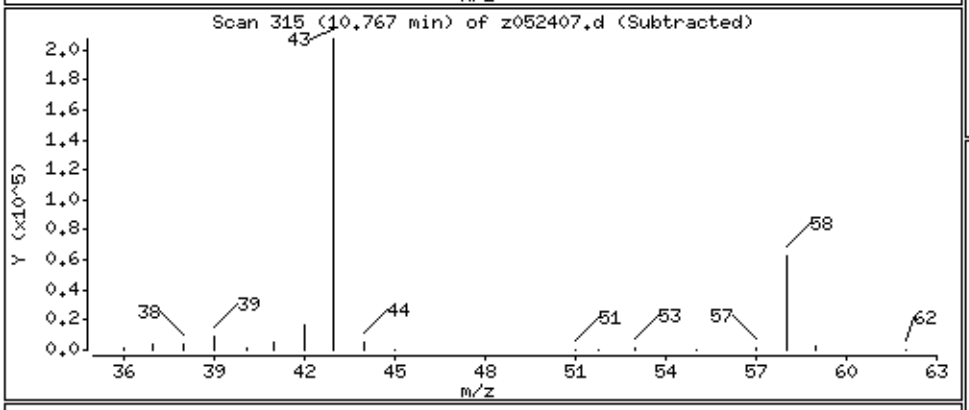
Column diameter: 0.32

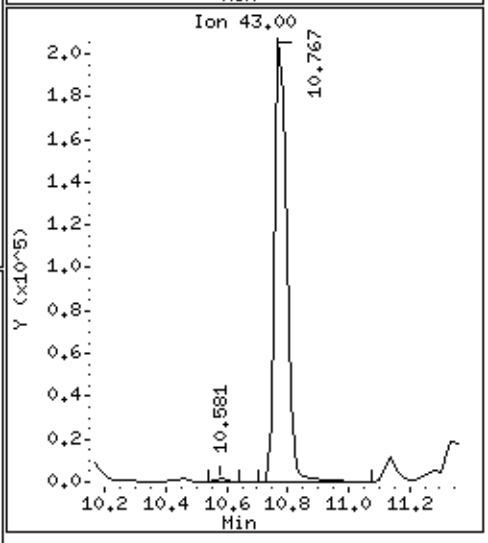
20 Acetone

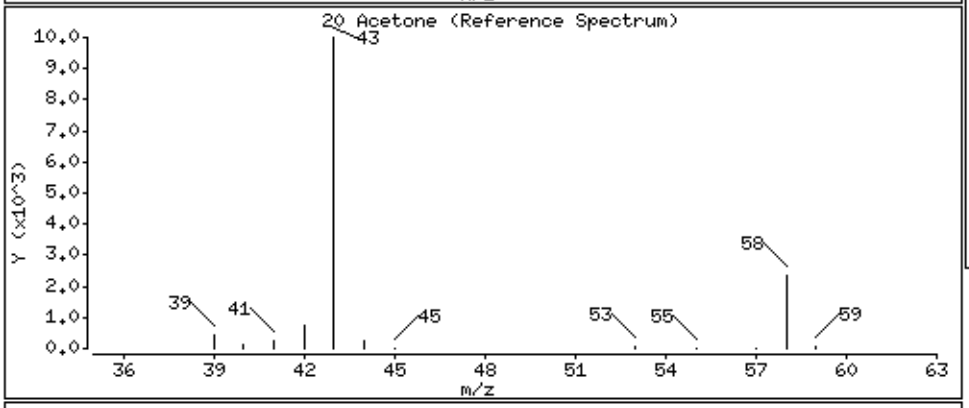
Concentration: 16.060 PPBV

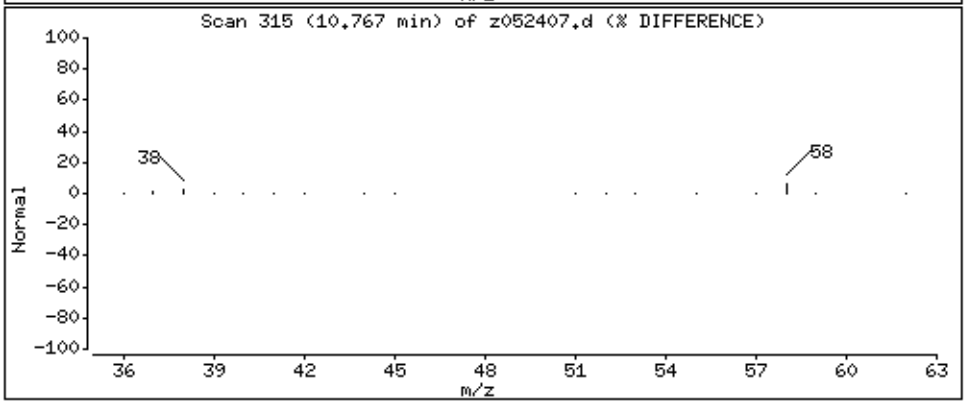












Data File: /chem/msdz.i/24May2007.b/z052407.d

Date : 24-MAY-2007 14:08

Client ID:

Instrument: msdz.i

Sample Info: 500ml #35988

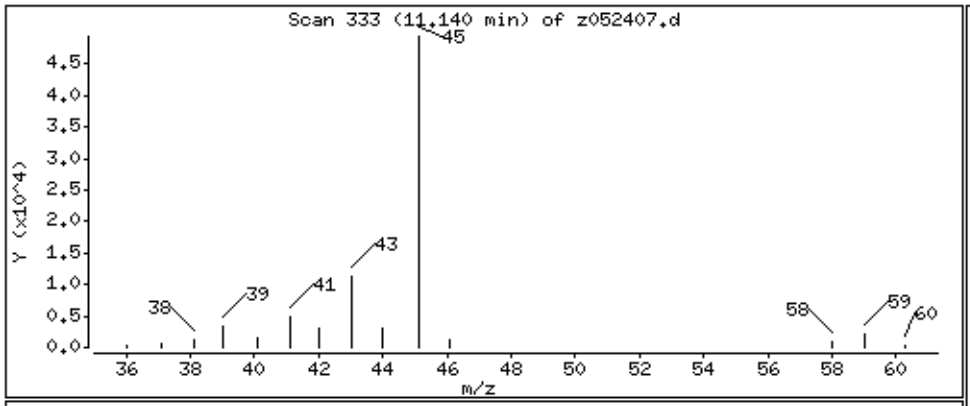
Operator: ea

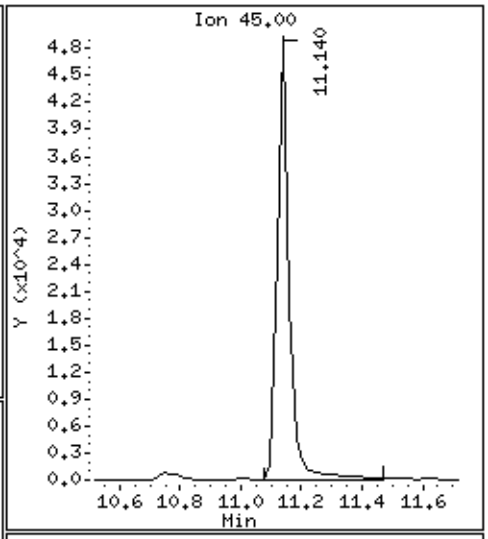
Column phase: RTx-624

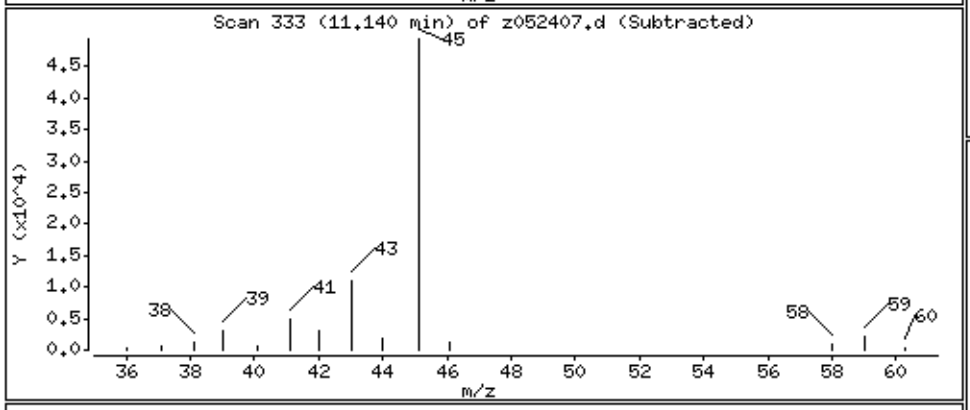
Column diameter: 0.32

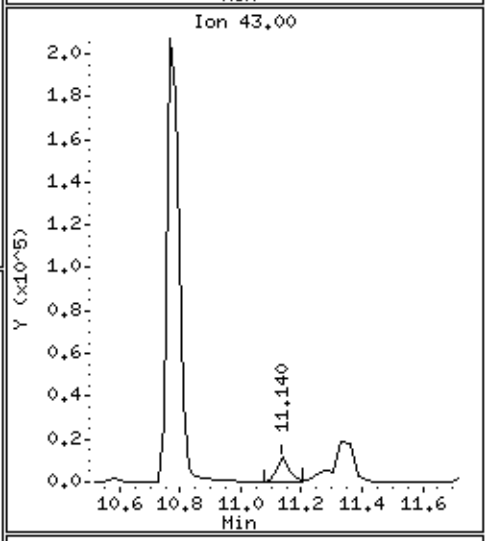
21 2-Propanol

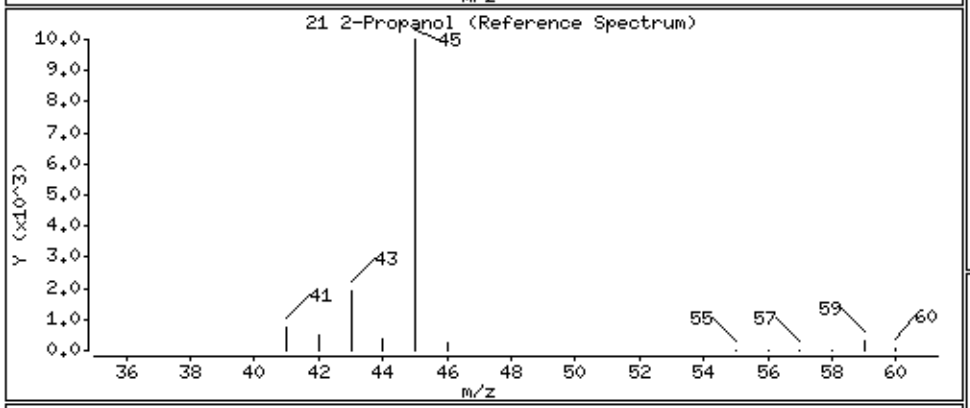
Concentration: 4.071 PPBV

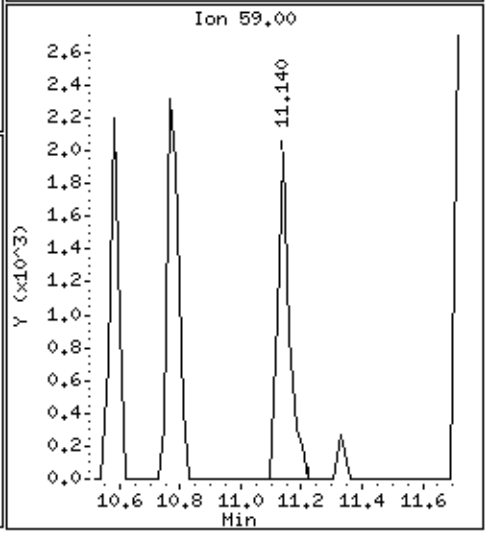


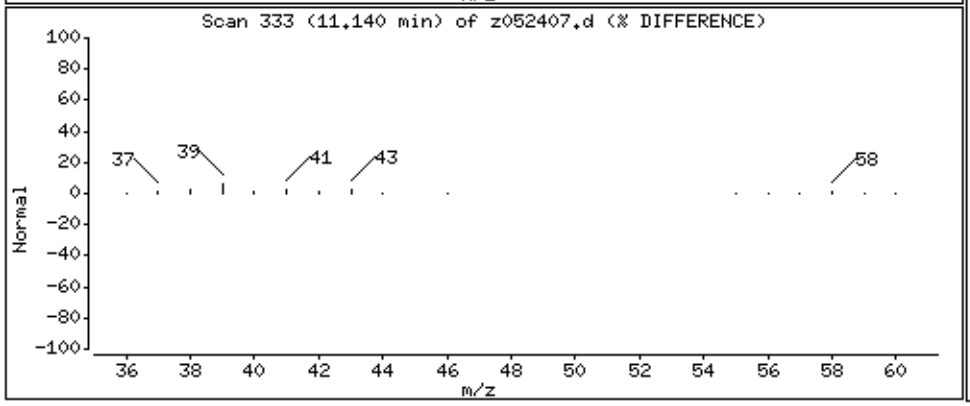












Data File: /chem/msdz.i/24May2007.b/z052407.d

Date : 24-MAY-2007 14:08

Client ID:

Instrument: msdz.i

Sample Info: 500ml #35988

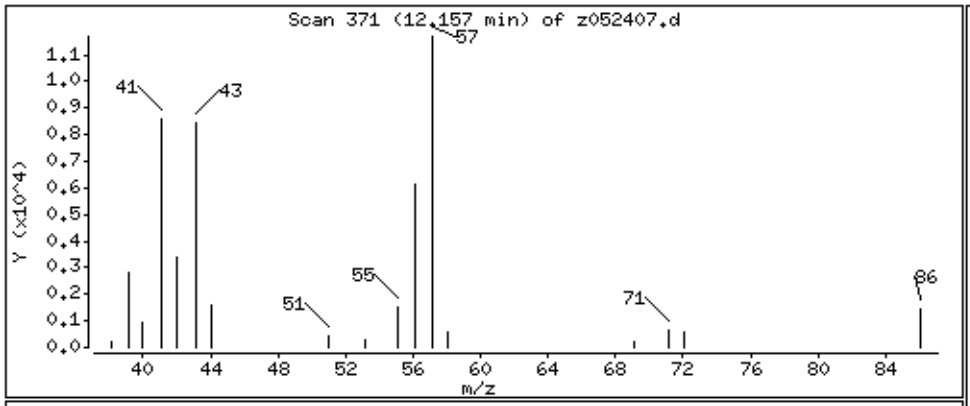
Operator: ea

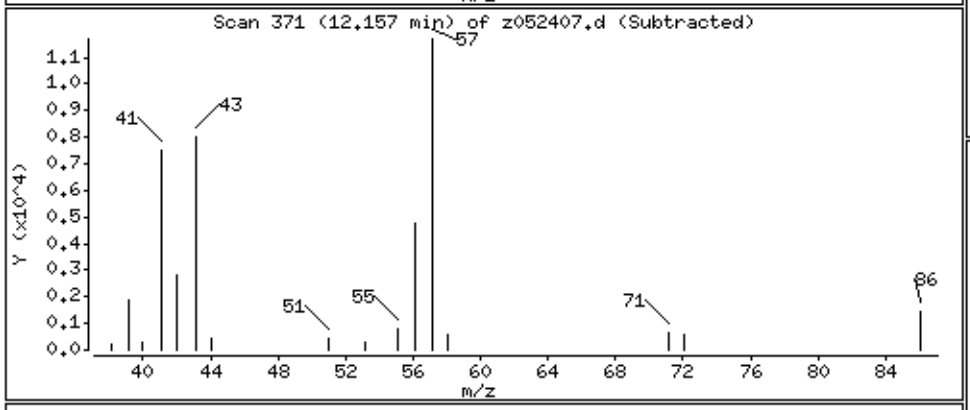
Column phase: RTx-624

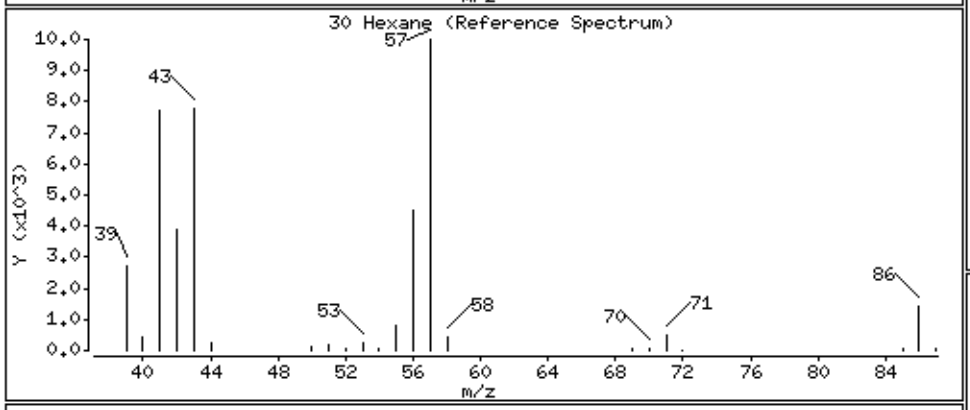
Column diameter: 0.32

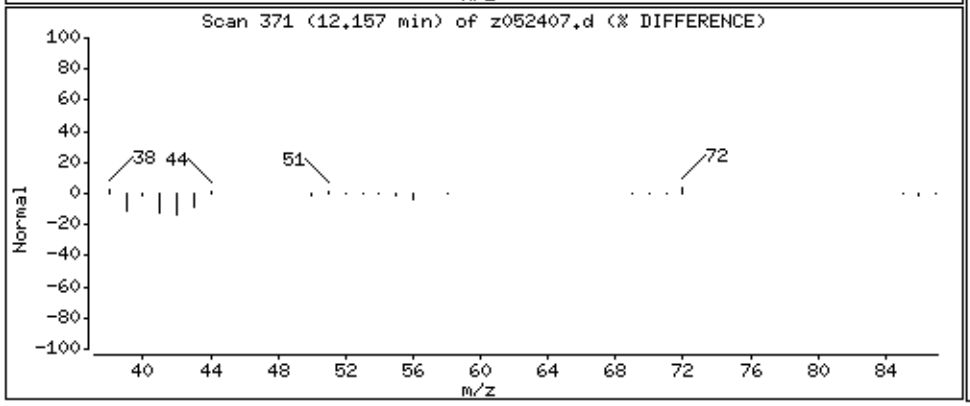
30 Hexane

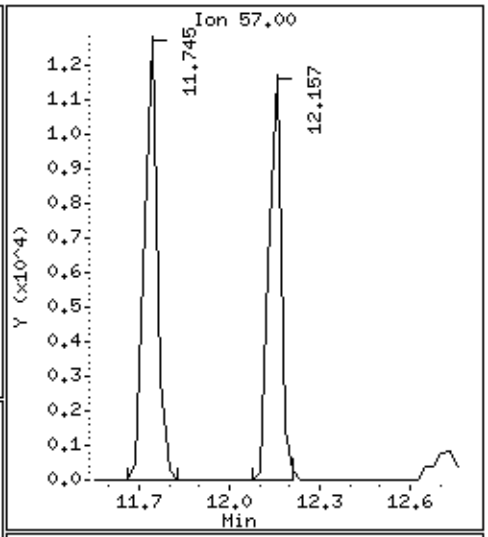
Concentration: 0.8985 PPBV

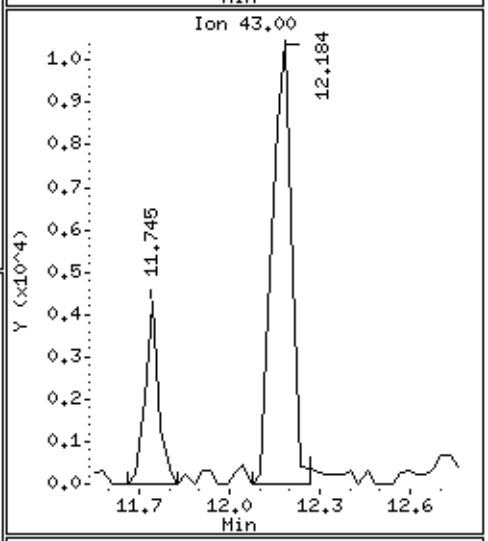


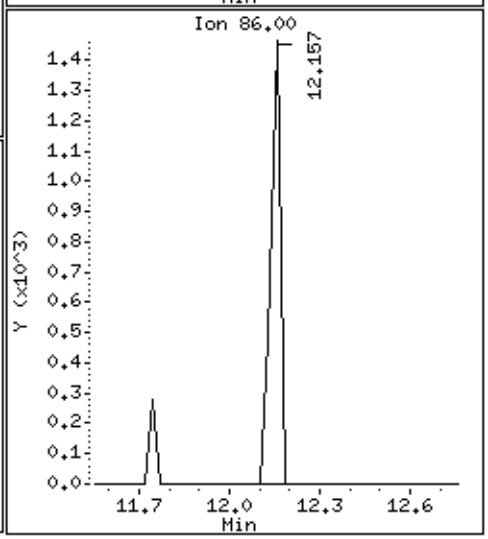












Data File: /chem/msdz.i/24May2007.b/z052407.d

Date : 24-MAY-2007 14:08

Client ID:

Instrument: msdz.i

Sample Info: 500ml #35988

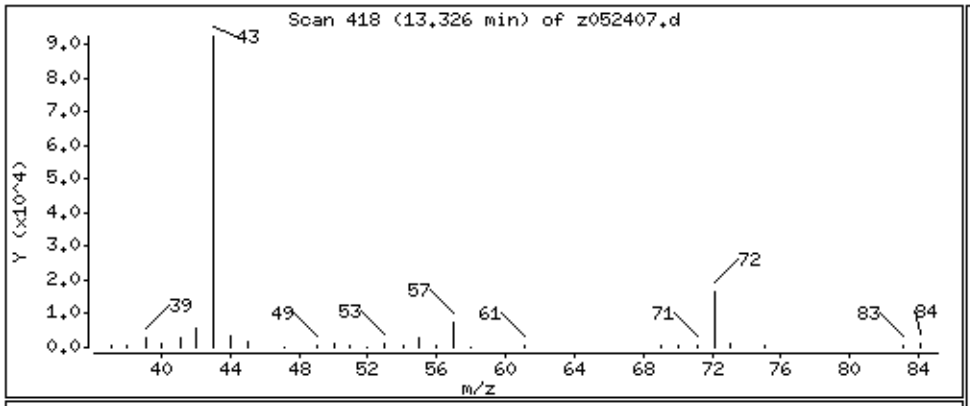
Operator: ea

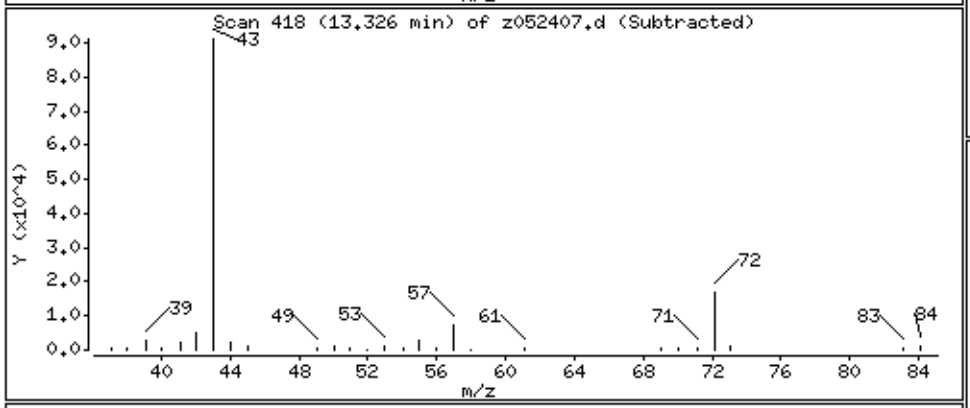
Column phase: RTx-624

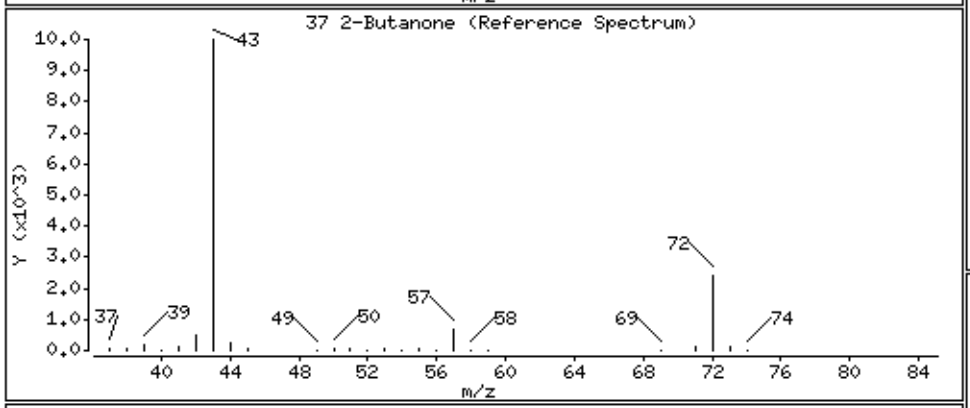
Column diameter: 0.32

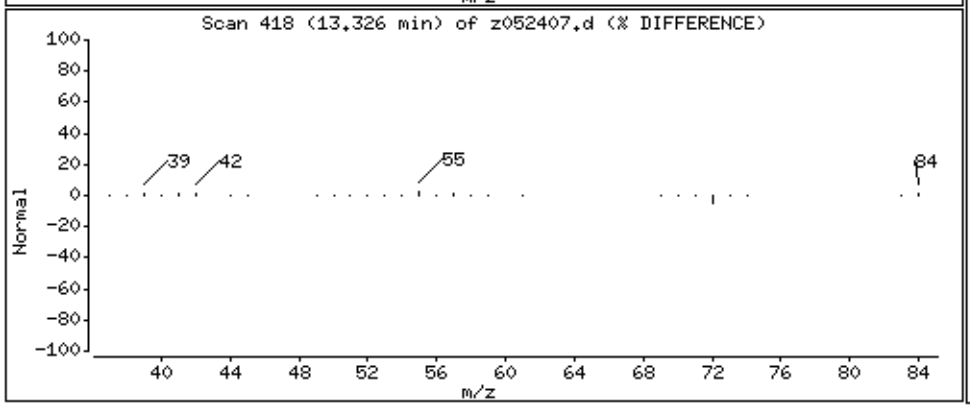
37 2-Butanone

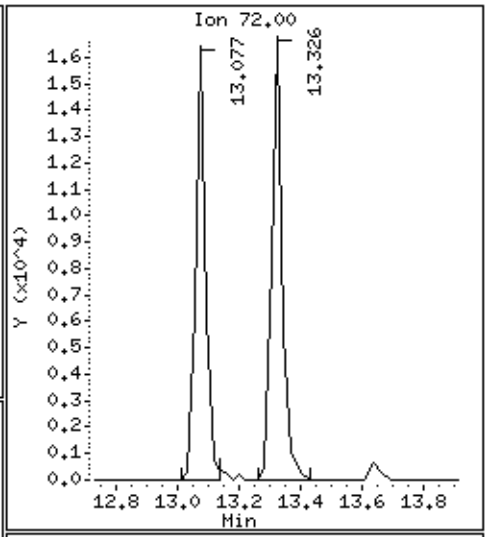
Concentration: 4.964 PPBV

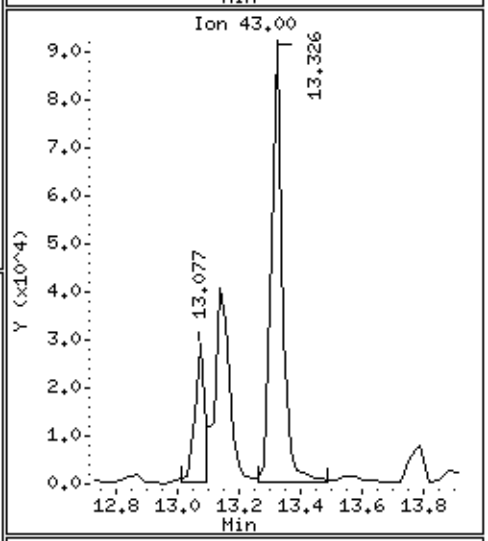


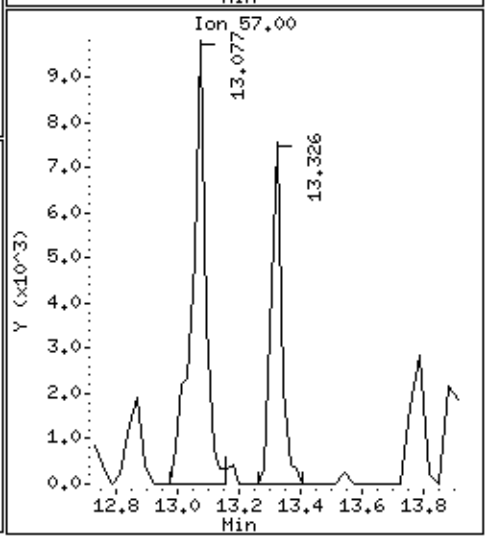












Data File: /chem/msdz.i/24May2007.b/z052407.d

Date : 24-MAY-2007 14:08

Client ID:

Instrument: msdz.i

Sample Info: 500ml #35988

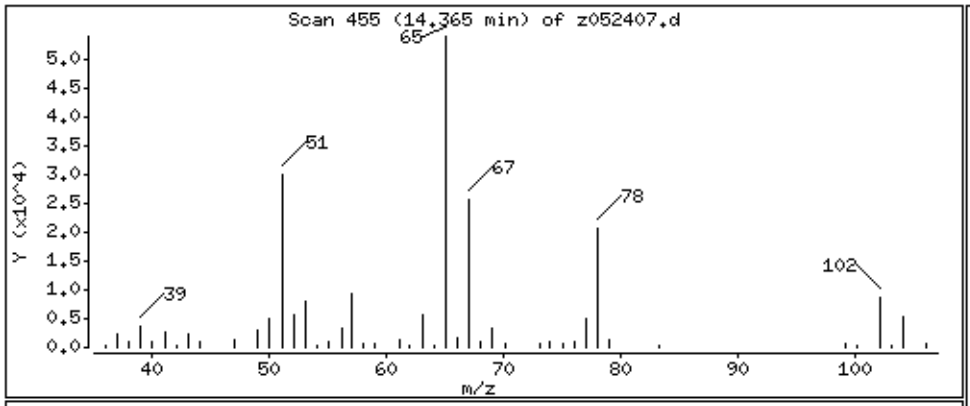
Operator: ea

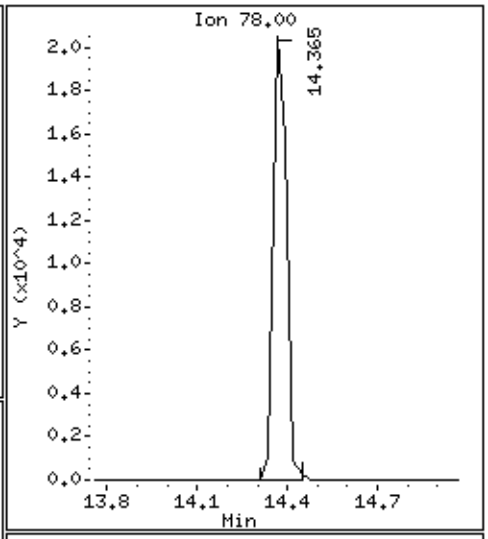
Column phase: RTx-624

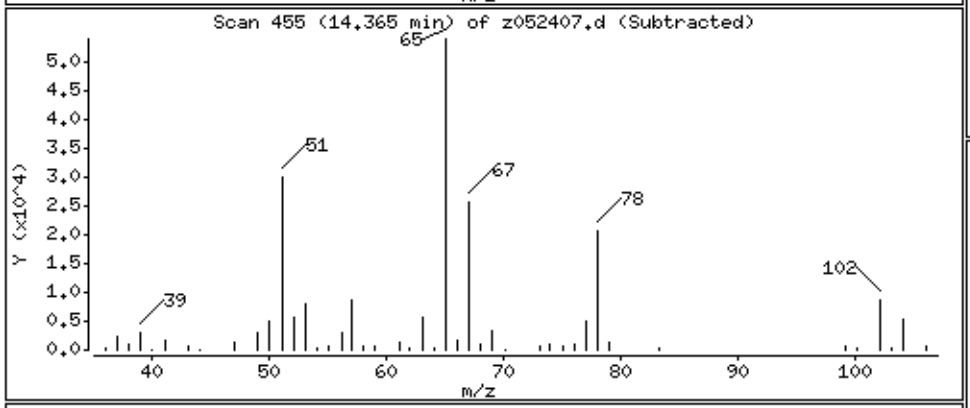
Column diameter: 0.32

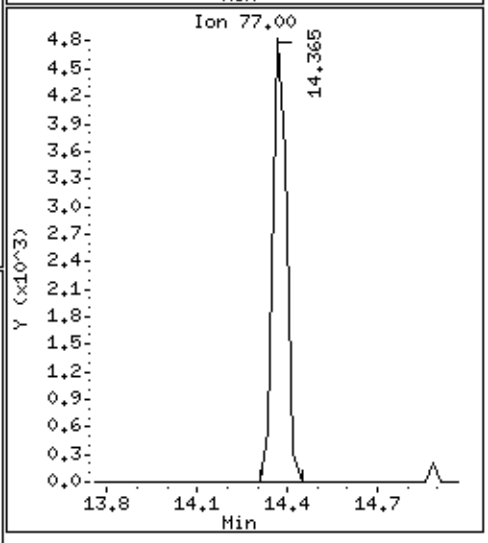
46 Benzene

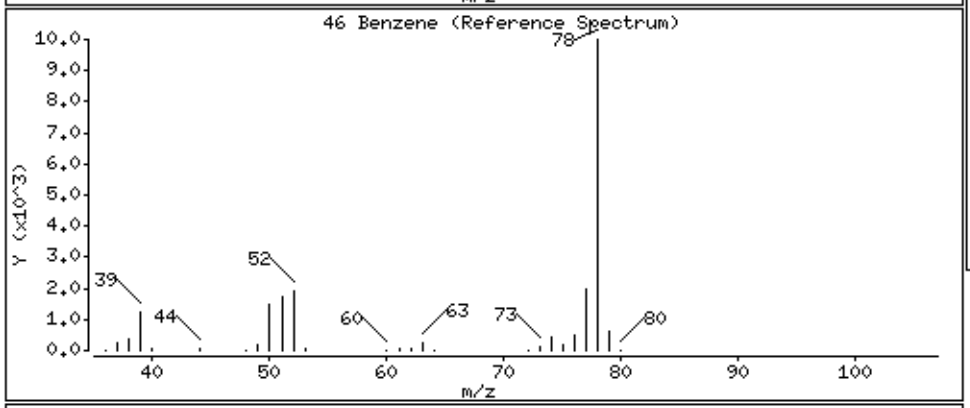
Concentration: 1.023 PPBV

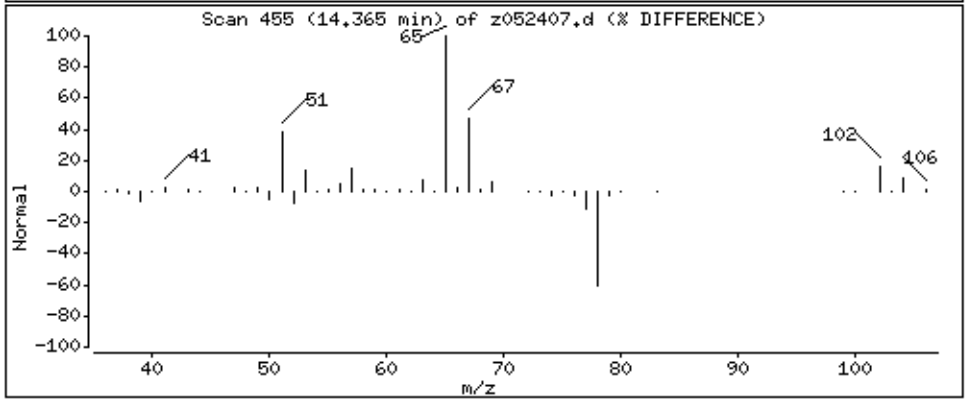












Data File: /chem/msdz.i/24May2007.b/z052407.d

Date : 24-MAY-2007 14:08

Client ID:

Instrument: msdz.i

Sample Info: 500ml #35988

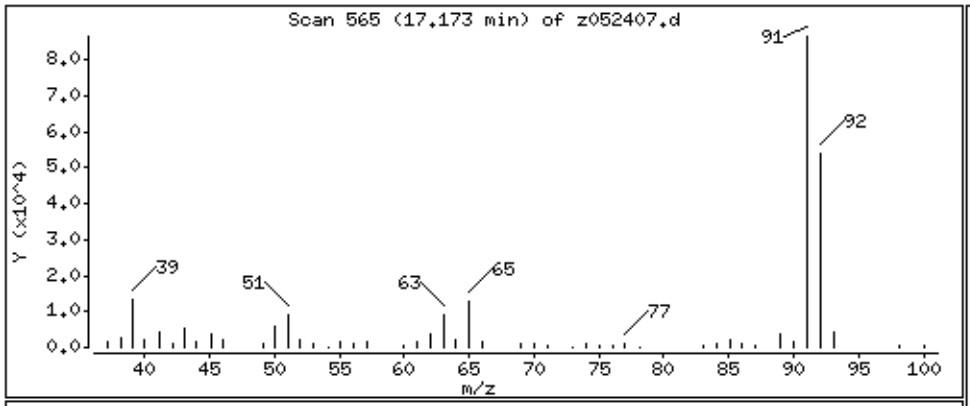
Operator: ea

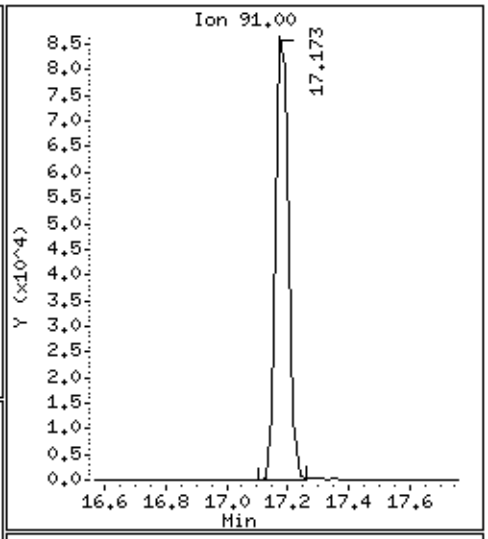
Column phase: RTx-624

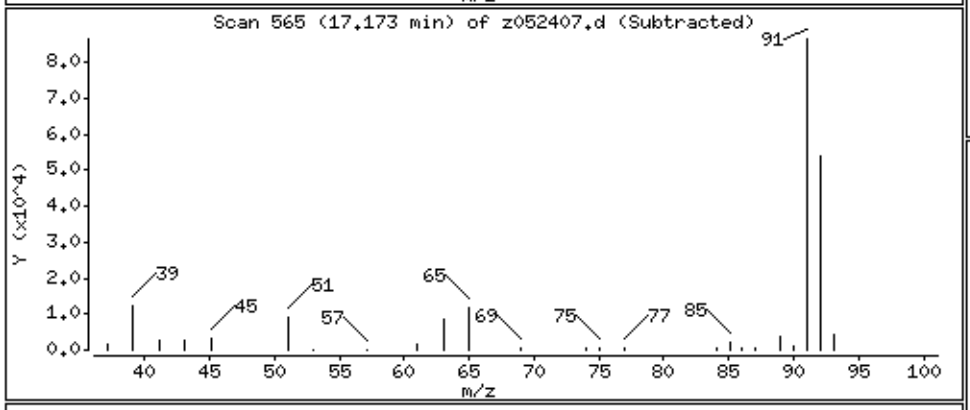
Column diameter: 0.32

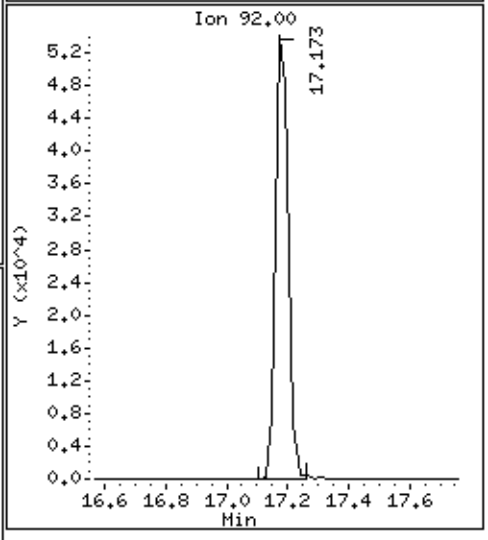
60 Toluene

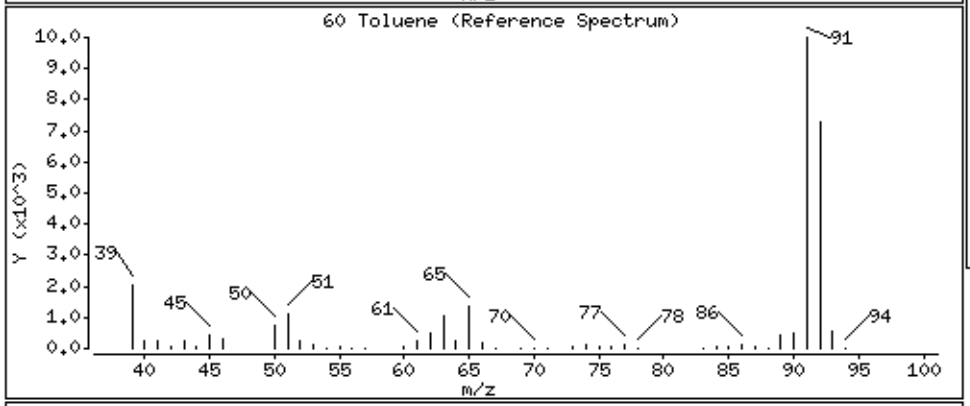
Concentration: 3.324 PPBV

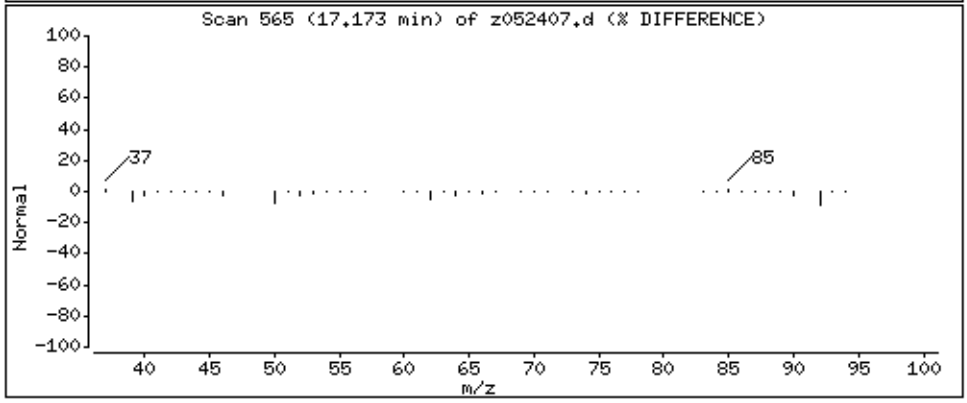












Data File: /chem/msdz.i/24May2007.b/z052407.d

Date : 24-MAY-2007 14:08

Client ID:

Instrument: msdz.i

Sample Info: 500ml #35988

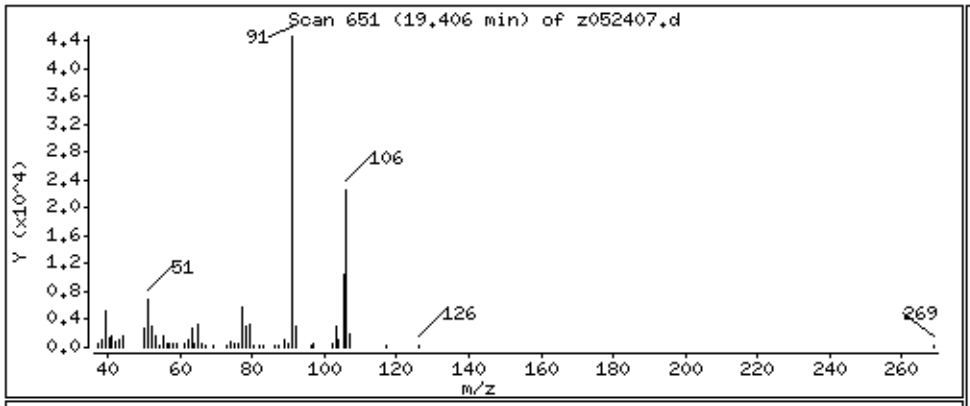
Operator: ea

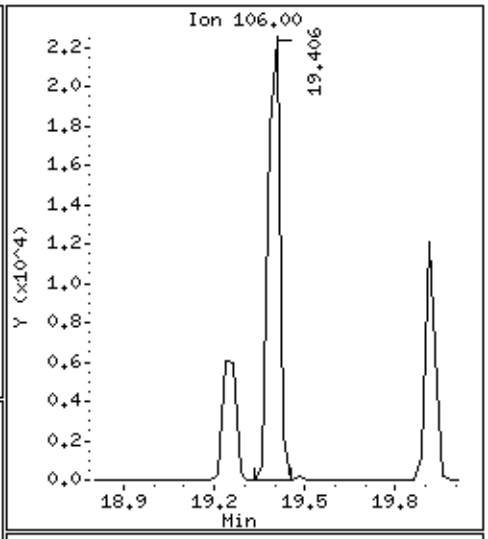
Column phase: RTx-624

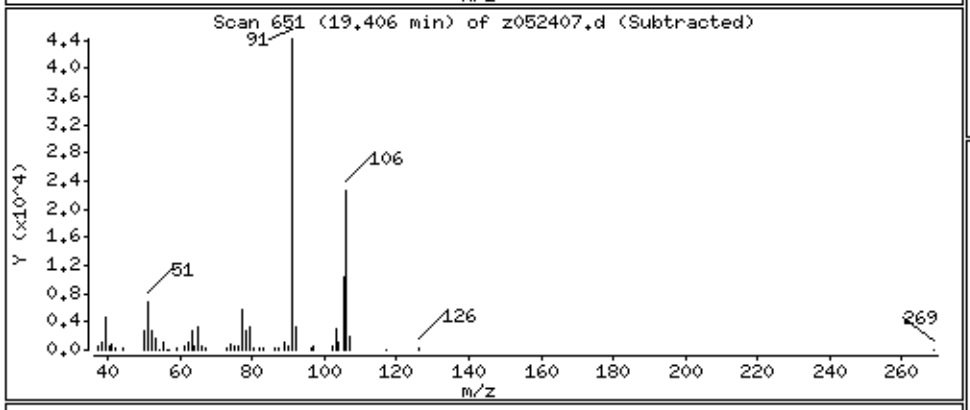
Column diameter: 0.32

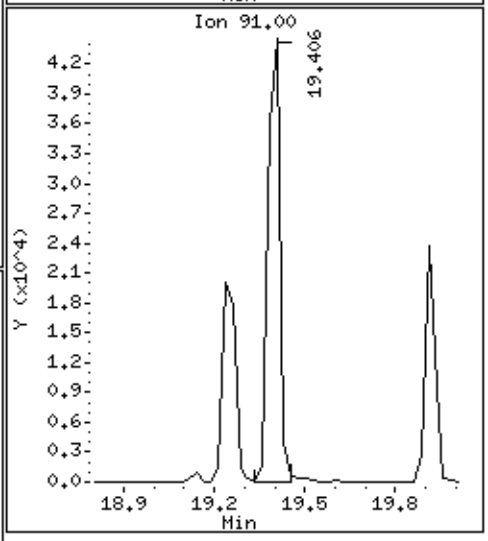
71 m,p-Xylene

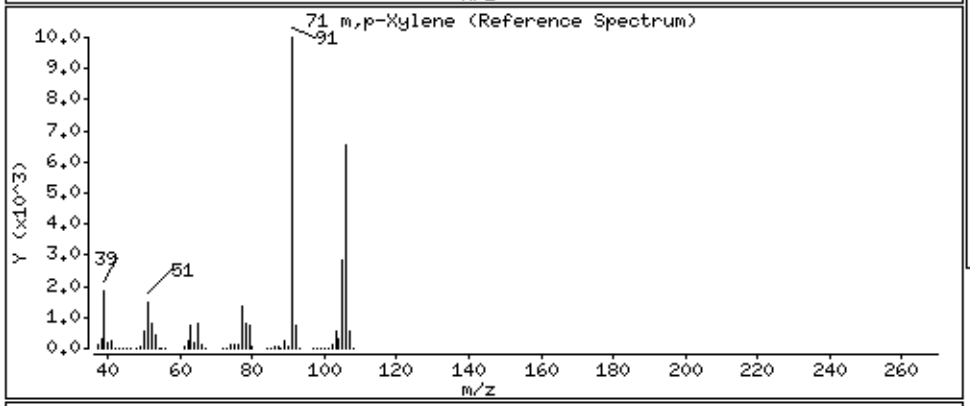
Concentration: 1.106 PPBV

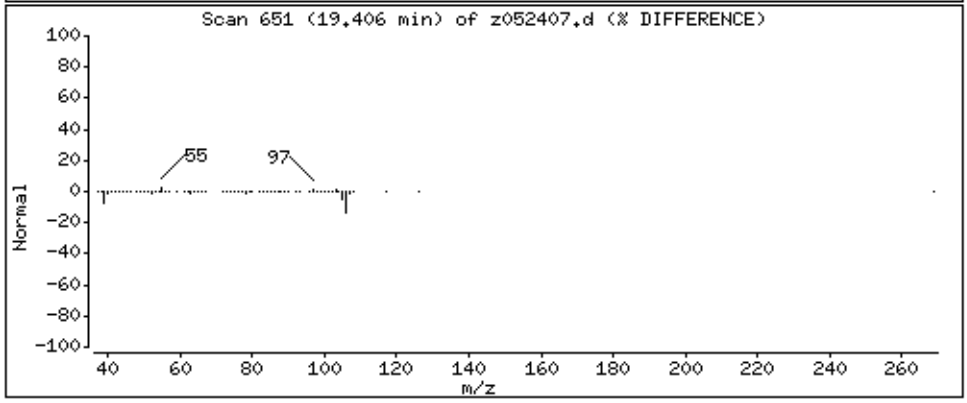












QC Results and Raw Data

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: Lab Blank

Lab ID#: 0705332-03A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**z052405a**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 5/24/07 12:12 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 U J	2.8	Not Detected U J
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#: 0705332-03A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**z052405a**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 5/24/07 12:12 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

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

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	98	70-130
1,2-Dichloroethane-d4	95	70-130
4-Bromofluorobenzene	103	70-130

Air Toxics Ltd.

AMBIENT AIR METHOD TO14/TO15

Data file : /chem/msdz.i/24May2007.b/z052405a.d
Lab Smp Id: Lab Blank Client Smp ID: Lab Blank
Inj Date : 24-MAY-2007 12:12
Operator : ea Inst ID: msdz.i
Smp Info : 500ml #409
Misc Info : humid
Comment :
Method : /chem/msdz.i/24May2007.b/t14q523a.m
Meth Date : 25-May-2007 10:10 ejakob Quant Type: ISTD
Cal Date : 23-MAY-2007 21:52 Cal File: z052313.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT06QENSR.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				CONCENTRATIONS			
				ON-COL	FINAL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
==	====== ========	====	========	=======	=======	==========	=====
* 39 Bromochloromethane					CAS #: 74-97-5		
13.636	13.635 (1.000)	130	156041	10.0000		80.00- 120.00	100.00
13.636	13.635 (1.000)	128	120550			0.00- 30.00	77.26
13.636	13.635 (1.000)	49	272988			0.00- 30.00	174.95
* 52 1,4-Difluorobenzene					CAS #: 540-36-3		
14.887	14.887 (1.000)	114	767197	10.0000		80.00- 120.00	100.00
14.887	14.887 (1.000)	88	127706			0.00- 30.00	16.65
* 68 Chlorobenzene-d5					CAS #: 3114-55-4		
19.141	19.141 (1.000)	117	883411	10.0000		80.00- 120.00	100.00
19.141	19.141 (1.000)	82	499507			0.00- 30.00	56.54
$ 47 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
14.393	14.393 (1.056)	65	283442	9.47216	9.472	80.00- 120.00	100.00
14.393	14.393 (1.056)	67	138206			0.00- 30.00	48.76
$ 59 Toluene-d8					CAS #: 2037-26-5		
17.083	17.083 (1.148)	98	759128	9.83723	9.837	80.00- 120.00	100.00
17.083	17.083 (1.148)	70	87313			0.00- 30.00	11.50

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
$ 59 Toluene-d8 (continued)							
17.083	17.083 (1.148)	100	514911			37.23- 97.23	67.83
$ 77 Bromofluorobenzene					CAS #: 460-00-4		
20.600	20.600 (1.076)	174	515909	10.2710	10.271	80.00- 120.00	100.00
20.600	20.600 (1.076)	95	781149			122.91- 182.91	151.41
20.600	20.600 (1.076)	176	492847			65.78- 125.78	95.53

Report Date: 25-May-2007 10:11

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdz.i
Lab File ID: z052405a.d
Lab Smp Id: Lab Blank
Analysis Type: VOA
Quant Type: ISTD
Operator: ea
Method File: /chem/msdz.i/24May2007.b/t14q523a.m
Misc Info: humid

Calibration Date: 24-MAY-2007
Calibration Time: 10:28
Client Smp ID: Lab Blank
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
39 Bromochloromethan	163895	98337	229453	156041	-4.79
52 1,4-Difluorobenze	807212	484327	1130097	767197	-4.96
68 Chlorobenzene-d5	889943	533966	1245920	883411	-0.73

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
39 Bromochloromethan	13.64	13.31	13.97	13.64	0.00
52 1,4-Difluorobenze	14.89	14.56	15.22	14.89	0.00
68 Chlorobenzene-d5	19.14	18.81	19.47	19.14	0.00

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

Report Date: 25-May-2007 10:11

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 24May2007
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: Lab Blank Client Smp ID: Lab Blank
Level: LOW Operator: ea
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: Quant Type: ISTD
Sublist File: AT06QENSR.sub
Method File: /chem/msdz.i/24May2007.b/t14q523a.m
Misc Info: humid

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 47 1,2-Dichloroethane	10.000	9.472	94.72	70-130
$ 59 Toluene-d8	10.000	9.837	98.37	70-130
$ 77 Bromofluorobenzene	10.000	10.271	102.71	70-130

Data File: /chem/msdz.i/24May2007.b/z052405a.d

Date : 24-MAY-2007 12:12

Client ID: Lab Blank

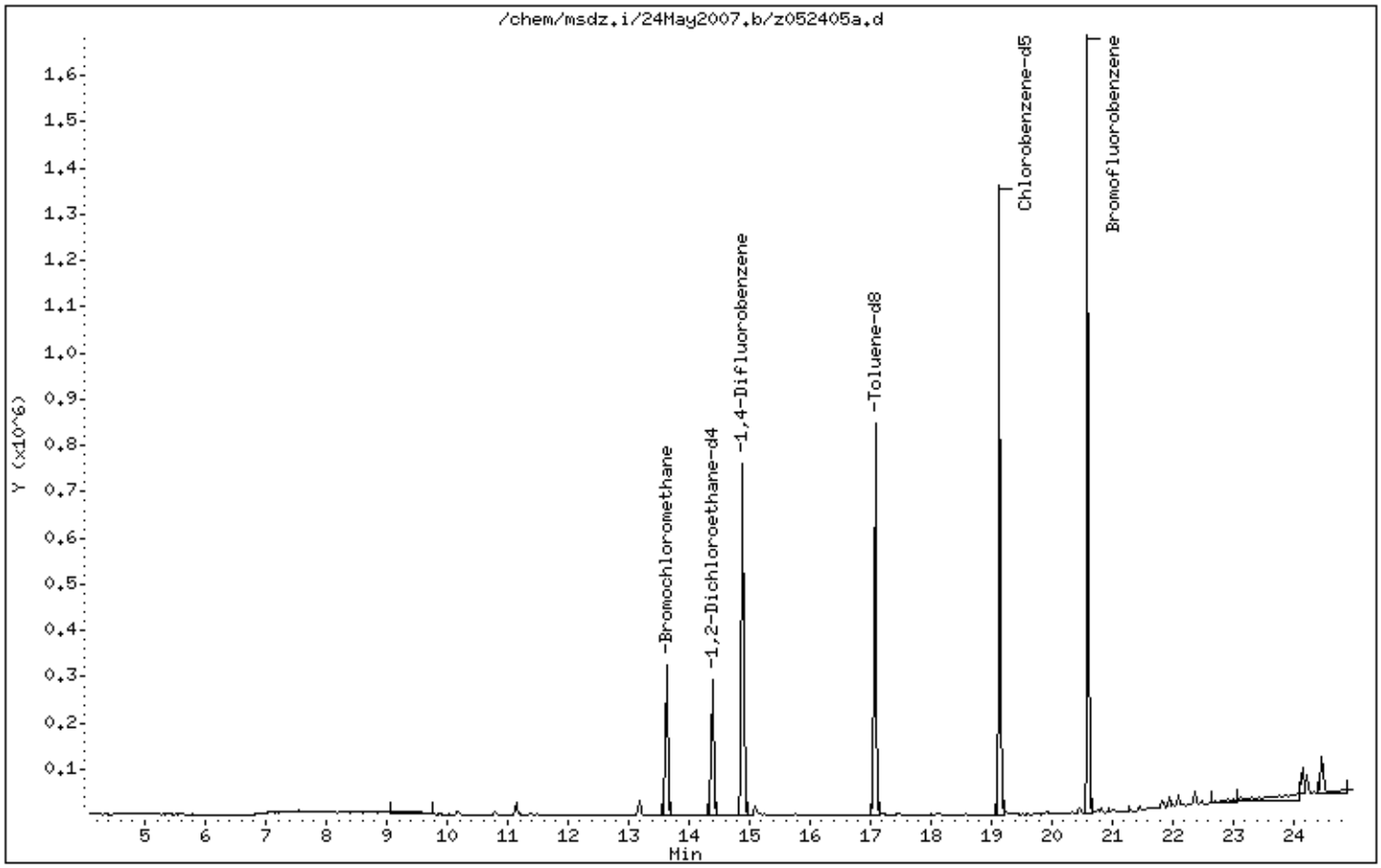
Instrument: msdz.i

Sample Info: 500ml #409

Operator: ea

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.: 0705332

	CLIENT SAMPLE NO.	SURROGATE % RECOVERY								
		1,2-Dichloroethane-d4	#	Toluene-d8	#	4-Bromofluorobenzene	#		#	TOTAL OUT
01	BS051007AMS01 DW	94		99		101				0
02	BS051007AMS01 DW Lab Duplicate	95		98		102				0
03	BS051007AMS04 UW	93		98		101				0
04	Lab Blank	95		98		103				0
05	CCV	102		100		99				0
06	LCS	104		101		101				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: 0705332

Lab File ID: z052403.d | Date Analyzed: 05/24/2007

Instrument ID: msdz.i | Time Analyzed: 10:28 AM

		Chlorobenzene-d5 Area	#	RT	#	1,4-Difluorobenzene Area	#	RT	#	Bromochloromethane Area	#	RT	#
	24-HOUR STD	889943		19.14		807212		14.89		163895		13.64	
	UPPER LIMIT	1245920		19.47		1130097		15.22		229453		13.97	
	LOWER LIMIT	533966		18.81		484327		14.56		98337		13.31	
	CLIENT SAMPLE NO												
01	BS051007AMS01 DW	882686		19.14		750239		14.89		154464		13.64	
02	BS051007AMS01 DW Lab Duplicate	885931		19.14		783505		14.89		159002		13.64	
03	BS051007AMS04 UW	890663		19.14		776621		14.89		161576		13.64	
04	Lab Blank	883411		19.14		767197		14.89		156041		13.64	
05	CCV	889943		19.14		807212		14.89		163895		13.64	
06	LCS	881490		19.14		792414		14.89		158129		13.64	
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

SAMPLE RESULTS/SAMPLE RESULTS DUPLICATE

Lab Name: Air Toxics Ltd. Lab File ID: z052408.d & z052406.d

Lab Sample ID: 01A & 01AA Dilution: 1.49 & 1.49

Client Sample ID: & Date Analyzed: 5/24/07 & 5/24/07

		Original		Duplicate		
CAS Number	Compound	Amount	Flags	Amount	Flags	RPD
71-55-6	1,1,1-Trichloroethane	ND	U	ND	U	0
79-34-5	1,1,2,2-Tetrachloroethane	ND	U	ND	U	0
79-00-5	1,1,2-Trichloroethane	ND	U	ND	U	0
75-34-3	1,1-Dichloroethane	ND	U	ND	U	0
75-35-4	1,1-Dichloroethene	ND	U	ND	U	0
120-82-1	1,2,4-Trichlorobenzene	ND	U	ND	U	0
95-63-6	1,2,4-Trimethylbenzene	ND	U	ND	U	0
106-93-4	1,2-Dibromoethane (EDB)	ND	U	ND	U	0
95-50-1	1,2-Dichlorobenzene	ND	U	ND	U	0
107-06-2	1,2-Dichloroethane	ND	U	ND	U	0
78-87-5	1,2-Dichloropropane	ND	U	ND	U	0
108-67-8	1,3,5-Trimethylbenzene	ND	U	ND	U	0
106-99-0	1,3-Butadiene	ND	U	ND	U	0
541-73-1	1,3-Dichlorobenzene	ND	U	ND	U	0
106-46-7	1,4-Dichlorobenzene	ND	U	ND	U	0
123-91-1	1,4-Dioxane	ND	U	ND	U	0
540-84-1	2,2,4-Trimethylpentane	ND	U	ND	U	0
78-93-3	2-Butanone (Methyl Ethyl Ketone)	5.722		5.141		11
591-78-6	2-Hexanone	ND	U	ND	U	0
67-63-0	2-Propanol	ND	U	ND	U	0
107-05-1	3-Chloropropene	ND	U	ND	U	0
622-96-8	4-Ethyltoluene	ND	U	ND	U	0
108-10-1	4-Methyl-2-pentanone	ND	U	ND	U	0
67-64-1	Acetone	19.44		16.998		13
100-44-7	alpha-Chlorotoluene	ND	U	ND	U	0
71-43-2	Benzene	ND	U	ND	U	0
75-27-4	Bromodichloromethane	ND	U	ND	U	0
75-25-2	Bromoform	ND	U	ND	U	0
74-83-9	Bromomethane	ND	U	ND	U	0
75-15-0	Carbon Disulfide	ND	U	ND	U	0
56-23-5	Carbon Tetrachloride	ND	U	ND	U	0
108-90-7	Chlorobenzene	ND	U	ND	U	0
75-00-3	Chloroethane	ND	U	ND	U	0
67-66-3	Chloroform	ND	U	ND	U	0
74-87-3	Chloromethane	ND	U	ND	U	0
156-59-2	cis-1,2-Dichloroethene	ND	U	ND	U	0
10061-01-5	cis-1,3-Dichloropropene	ND	U	ND	U	0
98-82-8	Cumene	ND	U	ND	U	0
110-82-7	Cyclohexane	ND	U	ND	U	0
124-48-1	Dibromochloromethane	ND	U	ND	U	0
64-17-5	Ethanol	9.238		7.671		18
100-41-4	Ethyl Benzene	ND	U	ND	U	0
75-69-4	Freon 11	ND	U	ND	U	0
76-13-1	Freon 113	ND	U	ND	U	0
76-14-2	Freon 114	ND	U	ND	U	0
75-71-8	Freon 12	ND	U	ND	U	0

Note: The results appearing in the Amount columns are the raw, unrounded numbers acquired from the instrument.

SAMPLE RESULTS/SAMPLE RESULTS DUPLICATE

Lab Name: Air Toxics Ltd.

Lab File ID: z052408.d & z052406.d

Lab Sample ID: 01A & 01AA

Dilution: 1.49 & 1.49

Client Sample ID: &

Date Analyzed: 5/24/07 & 5/24/07

		Original		Duplicate		
CAS Number	Compound	Amount	Flags	Amount	Flags	RPD
142-82-5	Heptane	ND	U	ND	U	0
87-68-3	Hexachlorobutadiene	ND	U	ND	U	0
110-54-3	Hexane	ND	U	ND	U	0
108-38-3	m,p-Xylene	ND	U	ND	U	0
1634-04-4	Methyl tert-butyl ether	ND	U	ND	U	0
75-09-2	Methylene Chloride	ND	U	ND	U	0
91-20-3	Naphthalene	ND	U	ND	U	0
95-47-6	o-Xylene	ND	U	ND	U	0
103-65-1	Propylbenzene	ND	U	ND	U	0
100-42-5	Styrene	ND	U	ND	U	0
127-18-4	Tetrachloroethene	ND	U	ND	U	0
109-99-9	Tetrahydrofuran	ND	U	ND	U	0
108-88-3	Toluene	ND	U	ND	U	0
156-60-5	trans-1,2-Dichloroethene	ND	U	ND	U	0
10061-02-6	trans-1,3-Dichloropropene	ND	U	ND	U	0
79-01-6	Trichloroethene	ND	U	ND	U	0
75-01-4	Vinyl Chloride	ND	U	ND	U	0

Note: The results appearing in the Amount columns are the raw, unrounded numbers acquired from the instrument.

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 23-MAY-2007 15:51
End Cal Date : 23-MAY-2007 21:52
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msdz.i/23May2007.b/t14q523a.m
Cal Date : 24-May-2007 11:07 ejakob
Curve Type : Average

Calibration File Names:
Level 6: /chem/msdz.i/23May2007.b/z052307.d
Level 7: /chem/msdz.i/23May2007.b/z052308.d
Level 11: /chem/msdz.i/23May2007.b/z052309.d
Level 13: /chem/msdz.i/23May2007.b/z052310.d
Level 14: /chem/msdz.i/23May2007.b/z052311.d

	0.50000	2.000	25.000	50.000	100.000	___	
Compound	Level 6	Level 7	Level 11	Level 13	Level 14	RRF	% RSD
1 Propylene	2.96677	2.34110	2.48671	2.39036	2.40040	2.51707	10.202
180 1,1,1,2-Tetrachloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++
167 Methylcyclohexane	3.87432	3.82835	4.18959	4.01543	3.93808	3.96916	3.574
168 1,2-dibromo-3-chloropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++
169 Methyl Acetate	+++++	+++++	+++++	+++++	+++++	+++++	+++++
2 Freon 152A	+++++	+++++	+++++	+++++	+++++	+++++	+++++
170 1,2,3-trichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++
171 2,4-Dimethylpentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++
172 2-Chlorotoluene	+++++	+++++	+++++	+++++	+++++	+++++	+++++
173 1,2,3-trimethylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++
174 Nonane	+++++	+++++	+++++	+++++	+++++	+++++	+++++
175 Ethyl Acetate	+++++	+++++	+++++	+++++	+++++	+++++	+++++
176 Decane	+++++	+++++	+++++	+++++	+++++	+++++	+++++
177 alpha-pinene	+++++	+++++	+++++	+++++	+++++	+++++	+++++
3 Dichlorodifluoromethane/Fr12	6.98753	6.46817	6.51294	6.18928	6.19469	6.47052	5.033
4 Freon 114	4.38840	4.36327	4.15392	3.98395	3.92671	4.16325	5.080
5 Chloromethane	3.23217	2.72510	2.78368	2.65689	2.65349	2.81027	8.608
6 Vinyl Chloride	2.86007	2.62593	2.74354	2.60090	2.61846	2.68978	4.113
7 1,3-Butadiene	2.20595	1.90661	2.05426	1.98888	1.92030	2.01520	6.047
8 Freon 22	+++++	+++++	+++++	+++++	+++++	+++++	+++++
9 Bromomethane	1.42162	1.35860	1.36132	1.33796	1.32239	1.36038	2.775
10 Chloroethane	1.43095	1.03653	1.04164	1.01075	1.01987	1.10794	16.336
11 Isopentane	2.28986	1.57234	1.63664	1.60566	1.57608	1.73612	17.893
12 Vinyl Bromide	+++++	+++++	+++++	+++++	+++++	+++++	+++++
13 Trichlorofluoromethane/Fr11	5.95736	5.77080	5.26716	3.37344	3.24239	4.72223	27.876
14 Ethanol	0.68735	0.58587	0.71080	0.87410	0.87627	0.74688	16.896

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 23-MAY-2007 15:51
End Cal Date : 23-MAY-2007 21:52
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msdz.i/23May2007.b/t14q523a.m
Cal Date : 24-May-2007 11:07 ejakob
Curve Type : Average

	0.50000	2.000	25.000	50.000	100.000	___	
Compound	Level 6	Level 7	Level 11	Level 13	Level 14	RRF	% RSD
15 1,1-Dichloroethene	0.91728	1.01493	1.01190	0.95694	0.90120	0.96045	5.460
16 Acrolein	+++++	+++++	+++++	+++++	+++++	+++++	+++++
17 Freon 113	2.28611	2.36940	2.20639	2.08657	1.92835	2.17537	7.955
18 Pentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++
19 Carbon Disulfide	4.91027	4.88591	5.02520	4.86857	4.81886	4.90176	1.565
20 Acetone	1.29050	1.32135	1.09657	1.07931	1.08033	1.17361	10.350
21 2-Propanol	4.28088	3.19856	4.03181	4.47942	3.74007	3.94615	12.703
22 3-Chloroprene	0.61074	0.63590	0.73287	0.71913	0.72609	0.68495	8.345
23 2-Methylpentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++
24 Acetonitrile	+++++	+++++	+++++	+++++	+++++	+++++	+++++
25 Methylene Chloride	1.62916	1.43687	1.42567	1.37224	1.35300	1.44339	7.597
26 tert-butyl alcohol	+++++	+++++	+++++	+++++	+++++	+++++	+++++
27 MTBE	4.45092	4.53992	5.30619	4.94012	4.71689	4.79081	7.169
28 trans-1,2-Dichloroethene	1.14123	1.17796	1.16936	1.10756	1.05395	1.13001	4.482
29 Acrylonitrile	+++++	+++++	+++++	+++++	+++++	+++++	+++++
30 Hexane	3.51074	3.60020	3.91428	3.74165	3.61744	3.67686	4.248
31 1,1-Dichloroethane	4.14783	3.87307	4.08634	3.91916	3.84146	3.97357	3.414
32 Isopropyl ether	+++++	+++++	+++++	+++++	+++++	+++++	+++++
33 Vinyl Acetate	2.53205	2.04543	3.70404	4.08523	3.99864	3.27308	28.284
34 Chlorprene	+++++	+++++	+++++	+++++	+++++	+++++	+++++
35 Ethyl-tert-butyl ether	+++++	+++++	+++++	+++++	+++++	+++++	+++++
36 cis-1,2-Dichloroethene	1.11701	1.19417	1.20703	1.15696	1.10536	1.15610	3.903
37 2-Butanone	0.67489	0.80583	0.92794	0.89983	0.87395	0.83649	12.079
38 Tetrahydrofuran	3.29520	2.69638	2.87272	2.83291	2.76549	2.89254	8.121
40 Chloroform	4.17245	4.05706	4.05815	3.88860	3.79082	3.99341	3.804
41 2,3-Dimethylpentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++
42 Cyclohexane	2.67665	2.71502	2.81404	2.60595	2.41083	2.64450	5.699
43 1,1,1-Trichloroethane	4.42092	4.49293	4.43729	4.10821	3.72375	4.23662	7.644
44 Carbon Tetrachloride	4.38201	4.37238	4.52117	4.29439	4.04815	4.32362	4.032
45 2,2,4-Trimethylpentane	4.36022	4.35687	4.59161	4.36686	4.03909	4.34293	4.536
46 Benzene	1.48026	1.37998	1.33115	1.23140	1.11841	1.30824	10.619
48 tert-amyl methyl ether	+++++	+++++	+++++	+++++	+++++	+++++	+++++
49 1,2-Dichloroethane	0.75388	0.77265	0.80934	0.75665	0.70375	0.75926	5.017

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 23-MAY-2007 15:51
End Cal Date : 23-MAY-2007 21:52
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msdz.i/23May2007.b/t14q523a.m
Cal Date : 24-May-2007 11:07 ejakob
Curve Type : Average

Compound	0.50000 Level 6	2.000 Level 7	25.000 Level 11	50.000 Level 13	100.000 Level 14	___ RRF	% RSD
50 Heptane	0.54806	0.55474	0.60282	0.56441	0.50725	0.55546	6.173
51 Thiophene	+++++	+++++	+++++	+++++	+++++	+++++	+++++
53 Trichloroethene	0.61413	0.66886	0.64997	0.60148	0.54216	0.61532	7.967
54 1,2-Dichloropropane	0.60271	0.60564	0.62259	0.59168	0.55254	0.59503	4.405
55 1,4-Dioxane	0.28314	0.31087	0.34170	0.33611	0.31953	0.31827	7.298
56 Bromodichloromethane	0.84175	0.94613	1.00205	0.95165	0.88184	0.92468	6.815
57 cis-1,3-Dichloropropene	0.58947	0.66926	0.77808	0.76289	0.72032	0.70400	10.898
58 4-Methyl-2-pentanone	1.02769	1.19299	1.47918	1.38516	1.25732	1.26847	13.757
60 Toluene	1.66830	1.73840	1.72676	1.61612	1.48997	1.64791	6.127
61 trans-1,3-Dichloropropene	0.60403	0.73209	0.79563	0.76772	0.76001	0.73190	10.244
62 1,1,2-Trichloroethane	0.52187	0.56319	0.56836	0.52635	0.50507	0.53696	5.127
63 Tetrachloroethene	0.73960	0.81101	0.75855	0.68758	0.61563	0.72247	10.280
64 2-Hexanone	0.53683	0.64853	0.88336	0.83976	0.81316	0.74433	19.631
65 Octane	+++++	+++++	+++++	+++++	+++++	+++++	+++++
66 Dibromochloromethane	0.79763	0.95194	1.04544	0.97452	0.90122	0.93415	9.877
67 1,2-Dibromoethane	0.87612	0.94818	0.98116	0.90906	0.83368	0.90964	6.385
69 Chlorobenzene	1.60773	1.68296	1.66086	1.52870	1.44460	1.58497	6.210
70 Ethyl Benzene	0.77804	0.86480	0.89212	0.81401	0.75425	0.82064	7.033
71 m,p-Xylene	0.95968	1.10013	1.15064	1.04098	0.96761	1.04381	7.940
72 o-Xylene	0.90896	1.07529	1.12324	0.99926	0.89406	1.00016	10.044
73 Styrene	1.20479	1.59934	1.81763	1.64146	1.46999	1.54664	14.742
74 1,3-Dichloropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++
75 Bromoform	0.67197	0.89074	1.03588	0.93460	0.82265	0.87117	15.568
76 Cumene	2.80403	3.21568	3.32963	3.01188	2.36662	2.94557	12.928
78 1,2,3-Trichloropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++
79 1,1,2,2-Tetrachloroethane	1.52225	1.65379	1.69189	1.55201	1.43190	1.57037	6.645
80 Propylbenzene	3.65389	4.04184	4.18145	3.41103	2.25714	3.50907	21.768
81 Dibromomethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++
82 4-Ethyltoluene	3.01378	3.56903	3.72169	3.32327	2.19605	3.16477	19.089
83 1,3,5-Trimethylbenzene	2.57414	3.05752	3.13528	2.84477	2.48735	2.81981	10.148
84 tert-Butylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++
85 1,2,4-Trimethylbenzene	2.36170	2.83855	3.07670	2.78026	2.44026	2.69950	10.949
86 sec-Butylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 23-MAY-2007 15:51
End Cal Date : 23-MAY-2007 21:52
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msdz.i/23May2007.b/t14q523a.m
Cal Date : 24-May-2007 11:07 ejakob
Curve Type : Average

	0.50000	2.000	25.000	50.000	100.000	___	
Compound	Level 6	Level 7	Level 11	Level 13	Level 14	RRF	% RSD
87 p-Cymene	+++++	+++++	+++++	+++++	+++++	+++++	+++++
88 1,3-Dichlorobenzene	1.56173	1.82816	1.86690	1.72767	1.62804	1.72250	7.503
89 1,4-Dichlorobenzene	1.56012	1.88043	1.94026	1.78983	1.66153	1.76643	8.831
90 alpha-chlorotoluene	1.66704	2.24415	2.77491	2.81272	2.00810	2.30138	21.479
91 Indan	+++++	+++++	+++++	+++++	+++++	+++++	+++++
92 Butylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++
93 1,2-Dichlorobenzene	1.46747	1.72302	1.79934	1.65025	1.53470	1.63496	8.269
94 Indene	+++++	+++++	+++++	+++++	+++++	+++++	+++++
95 Hexachloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++
96 1,3,5-Trichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++
97 1,2,4-Trichlorobenzene	0.56563	0.88900	0.91444	0.82380	0.81572	0.80172	17.277
98 Hexachlorobutadiene	0.50099	0.78548	0.75928	0.67240	0.58613	0.66085	17.983
99 Naphthalene	1.01945	1.83424	2.01230	1.80005	1.90434	1.71408	23.143
179 Butane	0.76254	0.64823	0.64600	0.61497	0.61553	0.65746	9.259
181 Freon134a	+++++	+++++	+++++	+++++	+++++	+++++	+++++
$ 47 1,2-Dichloroethane-d4	1.91293	1.74135	1.83368	2.00865	2.09179	1.91768	7.224
$ 59 Toluene-d8	0.99592	1.00337	1.00890	1.02527	0.99581	1.00585	1.209
$ 77 Bromofluorobenzene	0.57410	0.58273	0.58799	0.54825	0.54987	0.56859	3.256

Calibration History

Method : /chem/msdz.i/23May2007.b/t14q523a.m
Start Cal Date: 23-MAY-2007 15:51
End Cal Date : 23-MAY-2007 21:52

Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 6 , Cal Amount: 0.50000		
23-MAY-2007 15:51	AT06+4MDL	/chem/msdz.i/23May2007.b/z052307.d
Cal Level: 7 , Cal Amount: 2.00000		
23-MAY-2007 16:25	AT06+4MDL	/chem/msdz.i/23May2007.b/z052308.d
Cal Level: 11, Cal Amount: 25.00000		
23-MAY-2007 17:12	AT06+4MDL	/chem/msdz.i/23May2007.b/z052309.d
Cal Level: 13, Cal Amount: 50.00000		
23-MAY-2007 17:44	AT06+4MDL	/chem/msdz.i/23May2007.b/z052310.d
Cal Level: 14, Cal Amount: 100.00000		
23-MAY-2007 18:14	AT06+4MDL	/chem/msdz.i/23May2007.b/z052311.d
Cal Level: 15, Cal Amount: 200.00000		
23-MAY-2007 21:52	AT06+4MDL	/chem/msdz.i/23May2007.b/z052313.d

Continuing Calibration
Ccal Level Mode: GLOBAL LEVEL 13

Ccal Level: 13, Ccal Amount: 50.000		
23-MAY-2007 17:44	AT06+4MDL	/chem/msdz.i/23May2007.b/z052310a.d
Ccal Level: 13, Ccal Amount: 50.000		

23-MAY-2007 17:44	AT06+4MDL	/chem/msdz.i/23May2007.b/z052310.d

Logbook #: 1474

MSD-Z

@ Air Toxics Ltd.

m/z	ION ABUNDANCE CRITERIA	% REL. ABUNDANCE
50	15.0 – 40.0% of mass 95	26.05
75	30.0 – 60.0% of mass 95	47.56
95	Base peak, 100.00% relative abundance	100.00
96	5.0 – 9.0% of mass 95	6.64
173	Less than 2.0% of mass 174	(0.76)[1]
174	Greater than 50.0% of mass 95	75.68
175	5.0 – 9.0% of mass 174	(7.27)[1]
176	Greater than 95.0% but less than 101.0% of mass 174	(97.04)[1]
177	5.0 – 9.0% of mass 176	(6.44)[2]

[1] - value in parenthesis is % mass 174

[2] - value in parenthesis is % mass 176

Verify 176/174 m/z Ratio: 826432/851648 x100 = 97.04 %

BFB Injection Date: 5/23/07

BFB Injection Time: 1432

BFB File ID: 2052306

Tekmar Purge Flow: 19.2 mL/min

Vacuum: —

IS/S Std.#:	1443-81	Exp. Date: 8-10-07
BCM	195258	
1,4-DFB	938681	
CB-d5	1070387	

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

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

0062

Calculation Check:

ppbv of compound $= \frac{Area_{Sample}}{Area_{IS}} \times \frac{Conc._{IS}}{RRF} = \frac{(\quad)}{(\quad)} \times \frac{(\ 5\text{-}24\text{-}07\ )}{(\quad)} =$

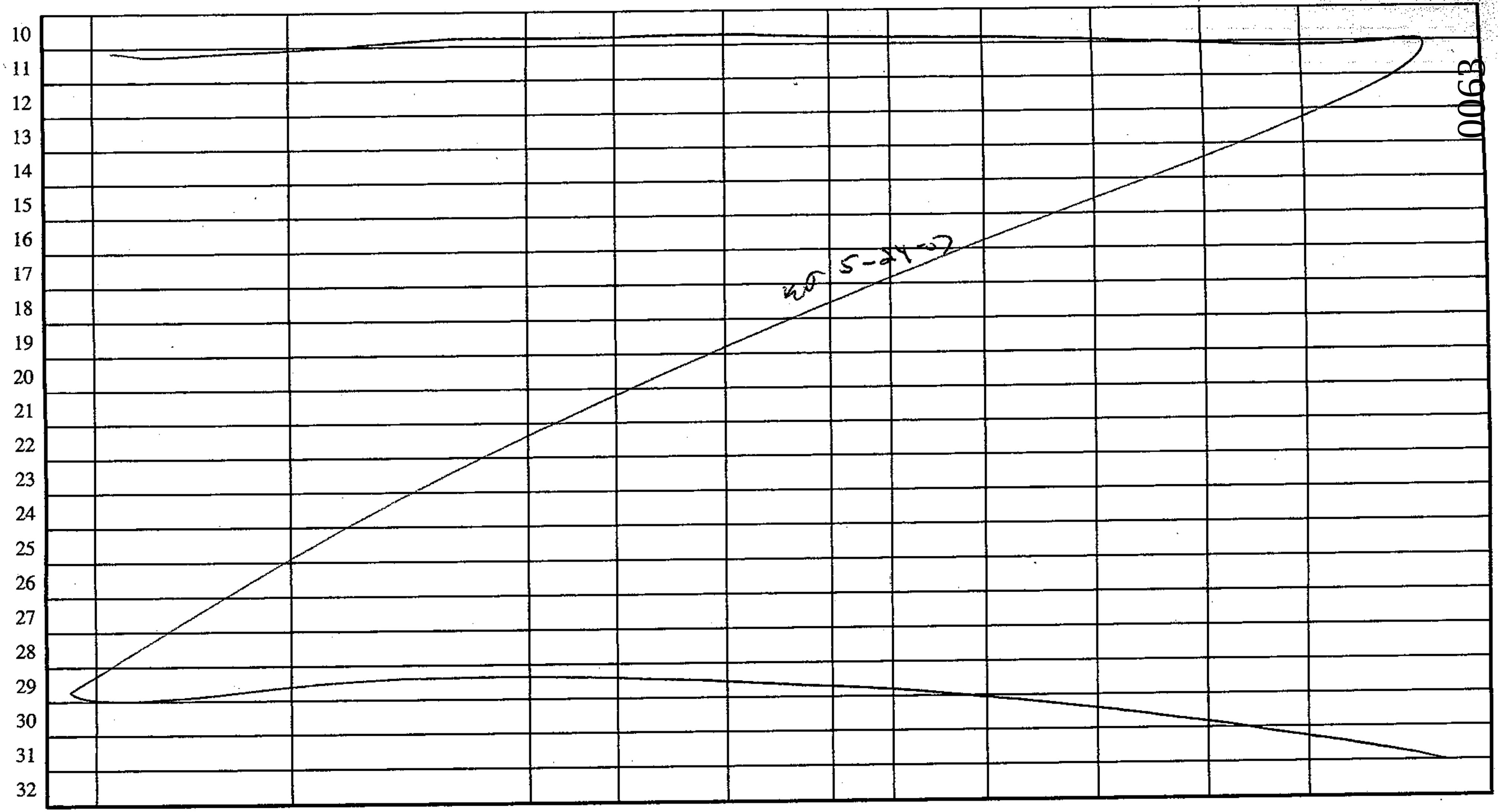
Reported Result _____

File ID:	
Compound:	
Initials:	

	Use	File #	Sample / Client Name	Can #	Pressure	Amt Loaded	DF	Loader Init.	Date Analyzed	Time Analyzed	Review Init.	Comments
1	✓	2052306	BFB Tune Check	843-2915	50ng	2mL	1.00	KR	5/23/07	1432	KR	
2	✓	07	ICAL Level 6	1443-68A	25ppbv→25ppbv	10mL				1551	KR	
3	✓	08	7	↓	25ppbv→20ppbv	40mL				1625	KR	
4	✓	09	11	↓	25ppbv→25ppbv	500mL				1712	KR	
5	✓	10	13	1487-264	200ppbv→50ppbv	125mL				1744	KR	
6	✓	11	14	↓	200ppbv→100ppbv	250mL				1814	KR	
7	✓	12	15	↓	200ppbv→20ppbv	500mL				1850	KR	
8	✓	13	15	↓	200ppbv→200ppbv	500mL			↓	2152	KR	
9	✓	14	System Blank	409	Humid	500mL	↓	↓	5-24-07	0811	KR	

Signature

5-24-07
Date



Comments: Nist flowmeter # 200-7744 Actual: 50.0 ml/min
Flow Controller # AA9211057 Nominal: 43.1 ml/min

Signature

5-24-07
Date

@ Air Toxics Ltd.

MSD-Z

Logbook #: 1474

0064

m/z	ION ABUNDANCE CRITERIA	% REL. ABUNDANCE
50	15.0 – 40.0% of mass 95	26.42
75	30.0 – 60.0% of mass 95	47.25
95	Base peak, 100.00% relative abundance	110.00
96	5.0 – 9.0% of mass 95	4.73
173	Less than 2.0% of mass 174	(0.85)[1]
174	Greater than 50.0% of mass 95	71.95
175	5.0 – 9.0% of mass 174	(7.28)[1]
176	Greater than 95.0% but less than 101.0% of mass 174	(96.34)[1]
177	5.0 – 9.0% of mass 176	(6.59)[2]

[1] - value in parenthesis is % mass 174

[2] - value in parenthesis is % mass 176

Verify 176/174 m/z Ratio: 628522 / 652304 X100 = 96.34

BFB Injection Date: 5-24-07

BFB Injection Time: 0856

BFB File ID: Z052407

Tekmar Purge Flow: 5/24/07 GA

Vacuum:

IS/S Std.#:	1443-81	Exp. Date: 8-10-07
BCM	163895	
1,4-DFB	807212	
CB-d5	889943	

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

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

Calculation Check:

$$\text{ppbv of compound} = \frac{\text{Area}_{\text{Sample}}}{\text{Area}_{\text{IS}}} \times \frac{\text{Conc.}_{\text{IS}}}{\text{RRF}} = \frac{(\ 499505\ )}{(\ 889943\ )} \times \frac{(\ 10.00\ )}{(\ 0.56959\ )} = 9.871$$

Reported Result 9.871

File ID: Z052403
Compound: BFB
Initials: tD

	Use	File #	Sample / Client Name	Can #	Pressure	Amt Loaded	DF	Loader Init.	Date Analyzed	Time Analyzed	Review Init.	Comments
1	✓	Z052401	BFB Tune check	843-2915	50psig	2mL	1.00	BS	5-24-07	0856	BS	
2	X	02	CCV #11187-264	200ppbv → 50ppbv		125mL	1.00	BS		0931	BS	Bad Tank
3	✓	03	LCV-1 (10ppbv)	11187-264				tD		1028	BS	1 out
4	✓	04	LCS-1 (10ppbv)	11187-274				tD		1122	tD	ICAL LCS point
5	✓	05	Lab Blank	409	Humid	500mL	1.00	tD		1212	tD	
6		06	0705332-01B	35996	30"Hg-5psi	500mL	1.49	tD		1301	tD	
7		07	1 -LCA	359003	55"Hg-5psi	1	1.64	tD				
8												
9												

Signature

5/24/07

Date

Revision 05/2005

Initial Calibration Narrative

A Five point initial calibration was analyzed on MSD-Z on May 23, 2007.

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

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

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

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

Air Toxics Ltd.

AMBIENT AIR METHOD TO14/TO15

Data file : /chem/msdz.i/24May2007.b/z052404.d
Lab Smp Id: LCS-1 Client Smp ID: LCS-1
Inj Date : 24-MAY-2007 11:22
Operator : ea Inst ID: msdz.i
Smp Info : 125mL #1487-274
Misc Info : 200ppbv->50ppbv
Comment :
Method : /chem/msdz.i/24May2007.b/t14q523a.m
Meth Date : 24-May-2007 11:09 ejakob Quant Type: ISTD
Cal Date : 23-MAY-2007 21:52 Cal File: z052313.d
Als bottle: 1 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT06QENSR.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				CONCENTRATIONS ON-COL	FINAL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
* 39 Bromochloromethane					CAS #: 74-97-5		
13.636	13.635 (1.000)	130	158129	10.0000		80.00- 120.00	100.00
13.636	13.635 (1.000)	128	123228			0.00- 30.00	77.93
13.636	13.635 (1.000)	49	292235			0.00- 30.00	184.81
* 52 1,4-Difluorobenzene					CAS #: 540-36-3		
14.887	14.887 (1.000)	114	792414	10.0000		80.00- 120.00	100.00
14.887	14.887 (1.000)	88	127820			0.00- 30.00	16.13
* 68 Chlorobenzene-d5					CAS #: 3114-55-4		
19.141	19.141 (1.000)	117	881490	10.0000		80.00- 120.00	100.00
19.141	19.141 (1.000)	82	510880			0.00- 30.00	57.96
$ 47 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
14.393	14.393 (1.056)	65	316842	10.4485	10.448	80.00- 120.00	100.00
14.393	14.393 (1.056)	67	208601			0.00- 30.00	65.84
$ 59 Toluene-d8					CAS #: 2037-26-5		
17.083	17.083 (1.148)	98	802100	10.0633	10.063	80.00- 120.00	100.00
17.083	17.083 (1.148)	70	91604			0.00- 30.00	11.42

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
$ 59 Toluene-d8 (continued)							
17.083	17.083 (1.148)	100	536044			37.23- 97.23	66.83
$ 77 Bromofluorobenzene					CAS #: 460-00-4		
20.600	20.600 (1.076)	174	506530	10.1063	10.106	80.00- 120.00	100.00
20.600	20.600 (1.076)	95	770994			122.91- 182.91	152.21
20.600	20.600 (1.076)	176	491789			65.78- 125.78	97.09
1 Propylene					CAS #: 115-07-1		
4.497	4.497 (0.330)	41	2050260	51.5113	51.511	80.00- 120.00	100.00
4.497	4.497 (0.330)	42	1381451			0.00- 30.00	67.38
4.497	4.497 (0.330)	39	1465689			0.00- 30.00	71.49
3 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
4.883	4.883 (0.358)	85	4925765	48.1419	48.142	80.00- 120.00	100.00
4.883	4.883 (0.358)	87	1589735			2.35- 62.35	32.27
4 Freon 114					CAS #: 76-14-2		
5.967	5.967 (0.438)	135	3232195	49.0969	49.097	80.00- 120.00	100.00
5.967	5.967 (0.438)	137	1030909			0.00- 30.00	31.90
5 Chloromethane					CAS #: 74-87-3		
6.160	6.160 (0.452)	50	2178713	49.0276	49.028	80.00- 120.00	100.00
6.160	6.160 (0.452)	52	700942			0.00- 30.00	32.17
6 Vinyl Chloride					CAS #: 75-01-4		
6.823	6.823 (0.500)	62	2179640	51.2456	51.246	80.00- 120.00	100.00
6.823	6.823 (0.500)	64	654639			0.28- 60.28	30.03
7 1,3-Butadiene					CAS #: 106-99-0		
7.031	7.031 (0.516)	54	1534135	48.1431	48.143	80.00- 120.00	100.00
7.031	7.031 (0.516)	39	1359859			0.00- 30.00	88.64
9 Bromomethane					CAS #: 74-83-9		
8.218	8.218 (0.603)	94	1092727	50.7973	50.797	80.00- 120.00	100.00
8.218	8.218 (0.603)	96	1034120			64.74- 124.74	94.64
10 Chloroethane					CAS #: 75-00-3		
8.633	8.633 (0.633)	64	847195	48.3564	48.356	80.00- 120.00	100.00
8.633	8.633 (0.633)	49	235487			0.00- 30.00	27.80
8.633	8.633 (0.633)	66	253809			0.00- 30.00	29.96
13 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
9.296	9.296 (0.682)	101	2636563	35.3085	35.308	80.00- 120.00	100.00
9.296	9.296 (0.682)	103	1710008			34.82- 94.82	64.86

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
14 Ethanol					CAS #: 64-17-5		
10.166	10.166 (0.746)	45	793773	67.2102	67.210	80.00- 120.00	100.00
10.166	10.166 (0.746)	43	172522			0.00- 30.00	21.73
10.166	10.166 (0.746)	46	312564			0.00- 30.00	39.38
15 1,1-Dichloroethene					CAS #: 75-35-4		
10.498	10.498 (0.770)	98	897736	59.1102	59.110	80.00- 120.00	100.00
10.498	10.498 (0.770)	61	3071686			0.00- 30.00	342.16
10.498	10.498 (0.770)	96	1396806			0.00- 30.00	155.59
17 Freon 113					CAS #: 76-13-1		
10.518	10.518 (0.771)	151	1843837	53.6017	53.602	80.00- 120.00	100.00
10.518	10.518 (0.771)	153	1174773			33.96- 93.96	63.71
10.518	10.518 (0.771)	101	2400820			0.00- 30.00	130.21
19 Carbon Disulfide					CAS #: 75-15-0		
10.809	10.809 (0.793)	76	4157901	53.6427	53.643	80.00- 120.00	100.00
20 Acetone					CAS #: 67-64-1		
10.767	10.767 (0.790)	58	948937	51.1330	51.133	80.00- 120.00	100.00
10.767	10.767 (0.790)	43	2944672			0.00- 30.00	310.31
21 2-Propanol					CAS #: 67-63-0		
11.120	11.119 (0.815)	45	3934903	63.0593	63.059	80.00- 120.00	100.00
11.120	11.119 (0.815)	43	630598			0.00- 30.00	16.03
11.120	11.119 (0.815)	59	137005			0.00- 30.00	3.48
22 3-Chloroprene					CAS #: 107-05-1		
11.251	11.251 (0.825)	76	632378	58.3858	58.386	80.00- 120.00	100.00
11.251	11.251 (0.825)	41	2264607			0.00- 30.00	358.11
25 Methylene Chloride					CAS #: 75-09-2		
11.498	11.498 (0.843)	84	1262780	55.3265	55.326	80.00- 120.00	100.00
11.498	11.498 (0.843)	49	2160470			0.00- 30.00	171.09
11.498	11.498 (0.843)	51	675030			0.00- 30.00	53.46
27 MTBE					CAS #: 1634-04-4		
11.827	11.827 (0.867)	73	4176097	55.1252	55.125	80.00- 120.00	100.00
11.827	11.827 (0.867)	57	1220827			0.00- 30.00	29.23
11.827	11.827 (0.867)	41	1120518			0.00- 30.00	26.83
28 trans-1,2-Dichloroethene					CAS #: 156-60-5		
11.855	11.854 (0.869)	98	944672	52.8672	52.867	80.00- 120.00	100.00
11.855	11.854 (0.869)	61	2836135			0.00- 30.00	300.22
11.855	11.854 (0.869)	96	1481033			0.00- 30.00	156.78

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
30 Hexane					CAS #: 110-54-3		
12.157	12.156 (0.892)	57	3196002	54.9690	54.969	80.00- 120.00	100.00
12.157	12.156 (0.892)	43	1847558			0.00- 30.00	57.81
12.157	12.156 (0.892)	86	396224			0.00- 30.00	12.40
31 1,1-Dichloroethane					CAS #: 75-34-3		
12.513	12.513 (0.918)	63	3451441	54.9298	54.930	80.00- 120.00	100.00
12.513	12.513 (0.918)	65	1036007			0.00- 30.00	30.02
33 Vinyl Acetate					CAS #: 108-05-4		
12.541	12.541 (0.920)	43	3576438	69.1008	69.101	80.00- 120.00	100.00
12.541	12.541 (0.920)	42	307178			0.00- 30.00	8.59
12.568	12.568 (0.922)	86	273754			0.00- 30.00	7.65
36 cis-1,2-Dichloroethene					CAS #: 156-59-2		
13.305	13.305 (0.976)	98	993106	54.3234	54.323	80.00- 120.00	100.00
13.305	13.305 (0.976)	61	2720750			0.00- 30.00	273.96
13.305	13.305 (0.976)	96	1558607			128.30- 188.30	156.94
37 2-Butanone					CAS #: 78-93-3		
13.326	13.326 (0.977)	72	791271	59.8211	59.821	80.00- 120.00	100.00
13.326	13.305 (0.977)	43	3857238			0.00- 30.00	487.47
13.326	13.326 (0.977)	57	338613			0.00- 30.00	42.79
38 Tetrahydrofuran					CAS #: 109-99-9		
13.636	13.635 (1.000)	42	2349606	51.3693	51.369	80.00- 120.00	100.00
13.636	13.635 (1.000)	71	734232			0.00- 30.00	31.25
13.636	13.635 (1.000)	72	801215			0.00- 30.00	34.10
40 Chloroform					CAS #: 67-66-3		
13.697	13.697 (1.005)	83	3251457	51.4899	51.490	80.00- 120.00	100.00
13.697	13.697 (1.005)	85	2078811			0.00- 30.00	63.93
42 Cyclohexane					CAS #: 110-82-7		
13.882	13.882 (1.018)	84	2188254	52.3290	52.329	80.00- 120.00	100.00
13.882	13.882 (1.018)	56	3475205			0.00- 30.00	158.81
13.882	13.882 (1.018)	41	1703749			0.00- 30.00	77.86
43 1,1,1-Trichloroethane					CAS #: 71-55-6		
13.913	13.913 (1.020)	97	3324286	49.6212	49.621	80.00- 120.00	100.00
13.913	13.913 (1.020)	99	2131639			0.00- 30.00	64.12
44 Carbon Tetrachloride					CAS #: 56-23-5		
14.067	14.067 (1.032)	119	3415016	49.9498	49.950	80.00- 120.00	100.00
14.067	14.067 (1.032)	117	3536104			0.00- 30.00	103.55

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
45 2,2,4-Trimethylpentane					CAS #: 540-84-1		
14.338	14.338 (1.051)	56	3581973	52.1588	52.159	80.00- 120.00	100.00
14.338	14.338 (1.051)	57	11180121			0.00- 30.00	312.12
14.338	14.338 (1.051)	41	2722498			0.00- 30.00	76.01
46 Benzene					CAS #: 71-43-2		
14.365	14.365 (0.965)	78	5013909	48.3657	48.366	80.00- 120.00	100.00
14.365	14.365 (0.965)	77	1144199			0.00- 30.00	22.82
49 1,2-Dichloroethane					CAS #: 107-06-2		
14.475	14.475 (0.972)	62	3021031	50.2129	50.213	80.00- 120.00	100.00
14.475	14.475 (0.972)	64	939776			0.00- 30.00	31.11
50 Heptane					CAS #: 142-82-5		
14.557	14.557 (0.978)	57	2259836	51.3422	51.342	80.00- 120.00	100.00
14.557	14.557 (0.978)	100	578505			0.00- 30.00	25.60
14.557	14.557 (0.978)	43	3918735			0.00- 30.00	173.41
53 Trichloroethene					CAS #: 79-01-6		
15.244	15.243 (1.024)	130	2380810	48.8282	48.828	80.00- 120.00	100.00
15.244	15.243 (1.024)	95	2293491			0.00- 30.00	96.33
15.244	15.243 (1.024)	97	1470476			0.00- 30.00	61.76
54 1,2-Dichloropropane					CAS #: 78-87-5		
15.628	15.628 (1.050)	63	2385054	50.5831	50.583	80.00- 120.00	100.00
15.628	15.628 (1.050)	62	1744491			0.00- 30.00	73.14
15.628	15.628 (1.050)	41	1436302			29.92- 89.92	60.22
55 1,4-Dioxane					CAS #: 123-91-1		
15.765	15.765 (1.059)	88	1365881	54.1581	54.158	80.00- 120.00	100.00
15.765	15.765 (1.059)	58	1326536			0.00- 30.00	97.12
15.765	15.765 (1.059)	57	428030			0.00- 30.00	31.34
56 Bromodichloromethane					CAS #: 75-27-4		
16.012	16.012 (1.076)	83	3772945	51.4915	51.491	80.00- 120.00	100.00
16.012	16.012 (1.076)	85	2384694			0.00- 30.00	63.21
57 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
16.725	16.725 (1.123)	75	3060182	54.8554	54.855	80.00- 120.00	100.00
16.725	16.725 (1.123)	77	964422			0.00- 30.00	31.52
16.725	16.725 (1.123)	39	1936542			33.34- 93.34	63.28
58 4-Methyl-2-pentanone					CAS #: 108-10-1		
16.904	16.904 (1.135)	43	5588981	55.6033	55.603	80.00- 120.00	100.00
16.904	16.904 (1.135)	58	2374597			0.00- 30.00	42.49
16.904	16.904 (1.135)	85	807506			0.00- 30.00	14.45

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
60 Toluene					CAS #: 108-88-3		
17.173	17.173 (1.154)	91	6787067	51.9753	51.975	80.00- 120.00	100.00
17.173	17.173 (1.154)	92	4097968			0.00- 30.00	60.38
61 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
17.576	17.576 (0.918)	75	3471626	53.8104	53.810	80.00- 120.00	100.00
17.576	17.576 (0.918)	77	1101476			0.00- 30.00	31.73
17.576	17.576 (0.918)	39	2065824			29.78- 89.78	59.51
62 1,1,2-Trichloroethane					CAS #: 79-00-5		
17.847	17.847 (0.932)	97	2405192	50.8144	50.814	80.00- 120.00	100.00
17.847	17.847 (0.932)	99	1490238			0.00- 30.00	61.96
17.847	17.847 (0.932)	83	1978464			52.35- 112.35	82.26
63 Tetrachloroethene					CAS #: 127-18-4		
17.964	17.964 (0.938)	166	3068910	48.1886	48.189	80.00- 120.00	100.00
17.964	17.964 (0.938)	129	2496323			0.00- 30.00	81.34
17.964	17.964 (0.938)	131	2376871			47.09- 107.09	77.45
64 2-Hexanone					CAS #: 591-78-6		
18.110	18.109 (0.946)	58	3882015	59.1663	59.166	80.00- 120.00	100.00
18.110	18.109 (0.946)	43	6635888			0.00- 30.00	170.94
18.110	18.109 (0.946)	100	611630			0.00- 30.00	15.76
66 Dibromochloromethane					CAS #: 124-48-1		
18.372	18.372 (0.960)	129	4359658	52.9444	52.944	80.00- 120.00	100.00
18.372	18.372 (0.960)	127	3384436			0.00- 30.00	77.63
67 1,2-Dibromoethane					CAS #: 106-93-4		
18.576	18.576 (0.970)	107	3936003	49.0872	49.087	80.00- 120.00	100.00
18.576	18.576 (0.970)	109	3726112			0.00- 30.00	94.67
69 Chlorobenzene					CAS #: 108-90-7		
19.189	19.189 (1.002)	112	6862637	49.1194	49.119	80.00- 120.00	100.00
19.189	19.189 (1.002)	114	2199475			0.00- 30.00	32.05
19.189	19.189 (1.002)	77	4056847			28.75- 88.75	59.11
70 Ethyl Benzene					CAS #: 100-41-4		
19.238	19.238 (1.005)	106	3624801	50.1086	50.109	80.00- 120.00	100.00
19.238	19.238 (1.005)	91	11349550			0.00- 30.00	313.11
71 m,p-Xylene					CAS #: 108-38-3		
19.406	19.406 (1.014)	106	4631272	50.3342	50.334	80.00- 120.00	100.00
19.406	19.406 (1.014)	91	9168809			0.00- 30.00	197.98
72 o-Xylene					CAS #: 95-47-6		
19.912	19.912 (1.040)	106	4480676	50.8226	50.822	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
72 o-Xylene (continued)							
19.912	19.912 (1.040)	91	9395885			0.00- 30.00	209.70
73 Styrene					CAS #: 100-42-5		
19.936	19.936 (1.042)	104	7383155	54.1546	54.154	80.00- 120.00	100.00
19.936	19.936 (1.042)	78	3708482			0.00- 30.00	50.23
75 Bromoform					CAS #: 75-25-2		
20.249	20.249 (1.058)	173	4187302	54.5275	54.528	80.00- 120.00	100.00
20.249	20.249 (1.058)	171	2171543			0.00- 30.00	51.86
76 Cumene					CAS #: 98-82-8		
20.346	20.345 (1.063)	105	13852617	53.3514	53.351	80.00- 120.00	100.00
20.346	20.345 (1.063)	120	3675694			0.00- 30.00	26.53
79 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
20.781	20.780 (1.086)	83	6831719	49.3528	49.353	80.00- 120.00	100.00
20.781	20.780 (1.086)	85	4349362			0.00- 30.00	63.66
80 Propylbenzene					CAS #: 103-65-1		
20.832	20.832 (1.088)	91	16964740	54.8451	54.845	80.00- 120.00	100.00
20.832	20.832 (1.088)	120	3946224			0.00- 30.00	23.26
82 4-Ethyltoluene					CAS #: 622-96-8		
20.961	20.961 (1.095)	105	15001289	53.7737	53.774	80.00- 120.00	100.00
20.961	20.961 (1.095)	120	4478386			0.00- 30.00	29.85
83 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
21.013	21.013 (1.098)	105	12542347	50.4593	50.459	80.00- 120.00	100.00
21.013	21.013 (1.098)	120	6123829			0.00- 30.00	48.83
85 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
21.451	21.451 (1.121)	105	12416751	52.1805	52.180	80.00- 120.00	100.00
21.451	21.451 (1.121)	120	5688960			0.00- 30.00	45.82
88 1,3-Dichlorobenzene					CAS #: 541-73-1		
21.838	21.838 (1.141)	146	7664889	50.4812	50.481	80.00- 120.00	100.00
21.838	21.838 (1.141)	148	4817098			0.00- 30.00	62.85
21.838	21.838 (1.141)	111	3421079			0.00- 30.00	44.63
89 1,4-Dichlorobenzene					CAS #: 106-46-7		
21.941	21.941 (1.146)	146	7813007	50.1769	50.177	80.00- 120.00	100.00
21.941	21.941 (1.146)	148	4935602			0.00- 30.00	63.17
21.941	21.941 (1.146)	111	3364386			0.00- 30.00	43.06
90 alpha-chlorotoluene					CAS #: 100-44-7		
22.096	22.096 (1.154)	91	12761918	62.9085	62.908	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
90 alpha-chlorotoluene (continued)							
22.096	22.096 (1.154)	126	2589201			0.00- 30.00	20.29
93 1,2-Dichlorobenzene					CAS #: 95-50-1		
22.379	22.379 (1.169)	146	7190912	49.8954	49.895	80.00- 120.00	100.00
22.379	22.379 (1.169)	148	4563309			33.34- 93.34	63.46
22.379	22.379 (1.169)	111	3368970			16.74- 76.74	46.85
97 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
24.158	24.158 (1.262)	180	3383763	47.8807	47.881	80.00- 120.00	100.00
24.158	24.158 (1.262)	182	3224278			0.00- 30.00	95.29
98 Hexachlorobutadiene					CAS #: 87-68-3		
24.236	24.236 (1.266)	225	2680279	46.0105	46.010	80.00- 120.00	100.00
24.236	24.236 (1.266)	223	1696726			0.00- 30.00	63.30
99 Naphthalene					CAS #: 91-20-3		
24.468	24.468 (1.278)	128	7131708	47.2004	47.200	80.00- 120.00	100.00
24.468	24.468 (1.278)	127	890284			0.00- 30.00	12.48
179 Butane					CAS #: 106-97-8		
6.754	6.754 (0.495)	58	517798	49.8061	49.806	80.00- 120.00	100.00
6.754	6.754 (0.495)	43	3600777			0.00- 30.00	695.40
11 Isopentane					CAS #: 78-78-4		
8.757	8.757 (0.642)	57	1299223	47.3253	47.325	80.00- 120.00	100.00
8.757	8.757 (0.642)	43	1664470			0.00- 30.00	128.11
8.757	8.757 (0.642)	42	1420951			0.00- 30.00	109.37
167 Methylcyclohexane					CAS #: 108-87-2		
15.436	15.436 (1.132)	83	3408062	54.2998	54.300	80.00- 120.00	100.00
15.436	15.436 (1.132)	98	1603099			0.00- 30.00	47.04
15.436	15.436 (1.132)	55	3868944			0.00- 30.00	113.52

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdz.i
Lab File ID: z052404.d
Lab Smp Id: LCS-1
Analysis Type: VOA
Quant Type: ISTD
Operator: ea
Method File: /chem/msdz.i/24May2007.b/t14q523a.m
Misc Info: 200ppbv->50ppbv

Calibration Date: 24-MAY-2007
Calibration Time: 10:28
Client Smp ID: LCS-1
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
39 Bromochloromethan	163895	98337	229453	158129	-3.52
52 1,4-Difluorobenze	807212	484327	1130097	792414	-1.83
68 Chlorobenzene-d5	889943	533966	1245920	881490	-0.95

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
39 Bromochloromethan	13.64	13.31	13.97	13.64	0.00
52 1,4-Difluorobenze	14.89	14.56	15.22	14.89	0.00
68 Chlorobenzene-d5	19.14	18.81	19.47	19.14	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: 24-May-2007 11:38

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 24May2007
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: LCS-1 Client Smp ID: LCS-1
Level: LOW Operator: ea
Data Type: MS DATA SampleType: LCS
SpikeList File: Spec+ENSR.spk Quant Type: ISTD
Sublist File: AT06QENSR.sub
Method File: /chem/msdz.i/24May2007.b/t14q523a.m
Misc Info: 200ppbv->50ppbv

SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
3 Dichlorodifluorome	50.000	48.142	96.28	70-130
4 Freon 114	50.000	49.097	98.19	70-130
5 Chloromethane	50.000	49.028	98.06	70-130
6 Vinyl Chloride	50.000	51.246	102.49	70-130
7 1,3-Butadiene	50.000	48.143	96.29	60-140
9 Bromomethane	50.000	50.797	101.59	70-130
10 Chloroethane	50.000	48.356	96.71	70-130
13 Trichlorofluoromet	50.000	35.308	70.62	70-130
14 Ethanol	50.000	67.210	134.42	60-140
17 Freon 113	50.000	53.602	107.20	70-130
15 1,1-Dichloroethene	50.000	59.110	118.22	70-130
20 Acetone	50.000	51.133	102.27	60-140
19 Carbon Disulfide	50.000	53.643	107.29	60-140
21 2-Propanol	50.000	63.059	126.12	60-140
25 Methylene Chloride	50.000	55.326	110.65	70-130
27 MTBE	50.000	55.125	110.25	60-140
28 trans-1,2-Dichloro	50.000	52.867	105.73	60-140
30 Hexane	50.000	54.969	109.94	60-140
31 1,1-Dichloroethane	50.000	54.930	109.86	70-130
36 cis-1,2-Dichloroet	50.000	54.323	108.65	70-130
37 2-Butanone	50.000	59.821	119.64	60-140
38 Tetrahydrofuran	50.000	51.369	102.74	60-140
40 Chloroform	50.000	51.490	102.98	70-130
42 Cyclohexane	50.000	52.329	104.66	60-140
43 1,1,1-Trichloroeth	50.000	49.621	99.24	70-130
44 Carbon Tetrachlori	50.000	49.950	99.90	70-130
46 Benzene	50.000	48.366	96.73	70-130
50 Heptane	50.000	51.342	102.68	60-140
49 1,2-Dichloroethane	50.000	50.213	100.43	70-130
53 Trichloroethene	50.000	48.828	97.66	70-130
54 1,2-Dichloropropan	50.000	50.583	101.17	70-130
55 1,4-Dioxane	50.000	54.158	108.32	60-140
56 Bromodichlorometha	50.000	51.491	102.98	60-140

SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
57 cis-1,3-Dichloropr	50.000	54.855	109.71	70-130
58 4-Methyl-2-pentano	50.000	55.603	111.21	60-140
60 Toluene	50.000	51.975	103.95	70-130
61 trans-1,3-Dichloro	50.000	53.810	107.62	70-130
62 1,1,2-Trichloroeth	50.000	50.814	101.63	70-130
64 2-Hexanone	50.000	59.166	118.33	60-140
63 Tetrachloroethene	50.000	48.189	96.38	70-130
66 Dibromochlorometha	50.000	52.944	105.89	60-140
67 1,2-Dibromoethane	50.000	49.087	98.17	70-130
69 Chlorobenzene	50.000	49.119	98.24	70-130
70 Ethyl Benzene	50.000	50.109	100.22	70-130
71 m,p-Xylene	50.000	50.334	100.67	70-130
72 o-Xylene	50.000	50.822	101.65	70-130
73 Styrene	50.000	54.154	108.31	70-130
75 Bromoform	50.000	54.528	109.06	60-140
76 Cumene	50.000	53.351	106.70	60-140
79 1,1,2,2-Tetrachlor	50.000	49.353	98.71	70-130
80 Propylbenzene	50.000	54.845	109.69	70-130
82 4-Ethyltoluene	50.000	53.774	107.55	60-140
83 1,3,5-Trimethylben	50.000	50.459	100.92	70-130
85 1,2,4-Trimethylben	50.000	52.180	104.36	70-130
88 1,3-Dichlorobenzen	50.000	50.481	100.96	70-130
89 1,4-Dichlorobenzen	50.000	50.177	100.35	70-130
90 alpha-chlorotoluen	50.000	62.908	125.82	70-130
93 1,2-Dichlorobenzen	50.000	49.895	99.79	70-130
97 1,2,4-Trichloroben	50.000	47.881	95.76	70-130
98 Hexachlorobutadien	50.000	46.010	92.02	60-140
99 Naphthalene	50.000	47.200	94.40	60-140
167 Methylcyclohexane	50.000	54.300	108.60	60-140
11 Isopentane	50.000	47.325	94.65	60-140
179 Butane	50.000	49.806	99.61	60-140

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 47 1,2-Dichloroethane	10.000	10.448	104.49	0-130
$ 59 Toluene-d8	10.000	10.063	100.63	0-130
$ 77 Bromofluorobenzene	10.000	10.106	101.06	0-130

Data File: /chem/msdz.i/24May2007.b/z052404.d

Date : 24-MAY-2007 11:22

Client ID: LCS-1

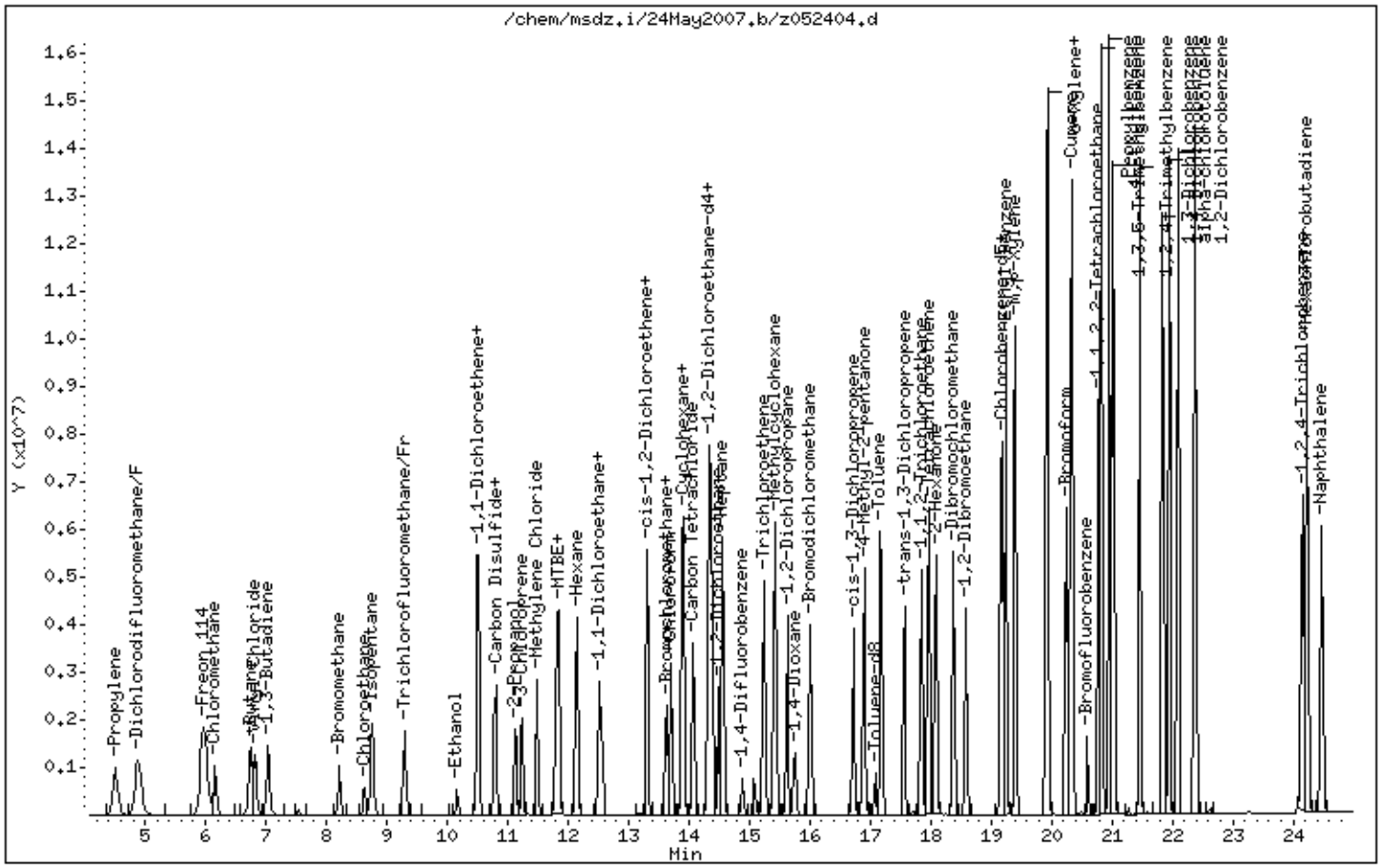
Instrument: msdz.i

Sample Info: 125mL #1487-274

Operator: ea

Column phase: RTx-624

Column diameter: 0.32



Air Toxics Ltd.

AMBIENT AIR METHOD TO14/TO15

Data file : /chem/msdz.i/23May2007.b/z052307.d
Lab Smp Id: ICAL Client Smp ID: Level 6
Inj Date : 23-MAY-2007 15:51
Operator : kr Inst ID: msdz.i
Smp Info : 10mL #1443-68A
Misc Info : 25ppbv->0.5ppbv
Comment :
Method : /chem/msdz.i/23May2007.b/t14q523a.m
Meth Date : 24-May-2007 08:30 kreier Quant Type: ISTD
Cal Date : 23-MAY-2007 15:51 Cal File: z052307.d
Als bottle: 1 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT06+4MDL.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				AMOUNTS				
				CAL-AMT	ON-COL			
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE		RATIO
==	====== ========	====	========	=======	=======	==========		=====
* 39 Bromochloromethane						CAS #: 74-97-5		
13.636	13.636 (1.000)	130	197366	10.0000		70.00- 130.00		100.00
13.636	13.636 (1.000)	128	154534			0.00- 30.00		78.30
13.636	13.636 (1.000)	49	353126			0.00- 30.00		178.92
* 52 1,4-Difluorobenzene						CAS #: 540-36-3		
14.887	14.887 (1.000)	114	971614	10.0000		70.00- 130.00		100.00
14.887	14.887 (1.000)	88	157957			0.00- 30.00		16.26
* 68 Chlorobenzene-d5						CAS #: 3114-55-4		
19.141	19.141 (1.000)	117	1110438	10.0000		70.00- 130.00		100.00
19.141	19.141 (1.000)	82	637643			0.00- 30.00		57.42
$ 47 1,2-Dichloroethane-d4						CAS #: 17060-07-0		
14.393	14.393 (1.056)	65	377548	10.0000	9.923	70.00- 130.00		100.00
14.393	14.393 (1.056)	67	179315			0.00- 30.00		47.49
$ 59 Toluene-d8						CAS #: 2037-26-5		
17.083	17.083 (1.148)	98	967649	10.0000	9.924	70.00- 130.00		100.00
17.083	17.083 (1.148)	70	114027			0.00- 30.00		11.78

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
$ 59 Toluene-d8 (continued)							
17.083	17.083 (1.148)	100	646482			38.34- 98.34	66.81
$ 77 Bromofluorobenzene					CAS #: 460-00-4		
20.600	20.600 (1.076)	174	637499	10.0000	10.099	70.00- 130.00	100.00
20.600	20.600 (1.076)	95	976722			122.14- 182.14	153.21
20.600	20.600 (1.076)	176	613814			66.57- 126.57	96.28
1 Propylene					CAS #: 115-07-1		
4.497	4.497 (0.330)	41	29277	0.50000	0.6033	70.00- 130.00	100.00
4.521	4.521 (0.332)	42	21696			0.00- 30.00	74.11
4.521	4.521 (0.332)	39	17580			0.00- 30.00	60.05
3 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
4.883	4.883 (0.358)	85	68955	0.50000	0.5462	70.00- 130.00	100.00
4.883	4.883 (0.358)	87	21200			2.11- 62.11	30.74
4 Freon 114					CAS #: 76-14-2		
5.991	5.991 (0.439)	135	43306	0.50000	0.5301	70.00- 130.00	100.00
5.991	5.991 (0.439)	137	14529			0.00- 30.00	33.55
5 Chloromethane					CAS #: 74-87-3		
6.160	6.160 (0.452)	50	31896	0.50000	0.6105	70.00- 130.00	100.00
6.160	6.160 (0.452)	52	10120			0.00- 30.00	31.73
6 Vinyl Chloride					CAS #: 75-01-4		
6.841	6.841 (0.502)	62	28224	0.50000	0.5387	70.00- 130.00	100.00
6.823	6.823 (0.500)	64	8899			0.00- 59.95	31.53
7 1,3-Butadiene					CAS #: 106-99-0		
7.032	7.032 (0.516)	54	21769	0.50000	0.5579	70.00- 130.00	100.00
7.049	7.049 (0.517)	39	24034			0.00- 30.00	110.40
9 Bromomethane					CAS #: 74-83-9		
8.218	8.218 (0.603)	94	14029	0.50000	0.5304	70.00- 130.00	100.00
8.218	8.218 (0.603)	96	13885			64.41- 124.41	98.97
10 Chloroethane					CAS #: 75-00-3		
8.633	8.633 (0.633)	64	14121	0.50000	0.6615	70.00- 130.00	100.00
8.633	8.633 (0.633)	49	4226			0.00- 30.00	29.93
8.633	8.633 (0.633)	66	4085			0.00- 30.00	28.93
13 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
9.296	9.296 (0.682)	101	58789	0.50000	0.6698	70.00- 130.00	100.00
9.296	9.296 (0.682)	103	38792			34.97- 94.97	65.99

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
14 Ethanol					CAS #: 64-17-5		
10.187	10.187 (0.747)	45	6783	0.50000	0.4467	70.00- 130.00	100.00(a)
10.187	10.187 (0.747)	43	1590			0.00- 30.00	23.44
10.187	10.187 (0.747)	46	2127			0.00- 30.00	31.36
15 1,1-Dichloroethene					CAS #: 75-35-4		
10.498	10.498 (0.770)	98	9052	0.50000	0.4907	70.00- 130.00	100.00
10.498	10.498 (0.770)	61	33450			0.00- 30.00	369.53
10.498	10.498 (0.770)	96	15491			0.00- 30.00	171.13
17 Freon 113					CAS #: 76-13-1		
10.519	10.519 (0.771)	151	22560	0.50000	0.5415	70.00- 130.00	100.00
10.519	10.519 (0.771)	153	15794			33.46- 93.46	70.01
10.519	10.519 (0.771)	101	31969			0.00- 30.00	141.71
19 Carbon Disulfide					CAS #: 75-15-0		
10.809	10.809 (0.793)	76	48456	0.50000	0.5067	70.00- 130.00	100.00
20 Acetone					CAS #: 67-64-1		
10.788	10.788 (0.791)	58	12735	0.50000	0.5806	70.00- 130.00	100.00
10.788	10.788 (0.791)	43	45190			0.00- 30.00	354.85
21 2-Propanol					CAS #: 67-63-0		
11.140	11.140 (0.817)	45	42245	0.50000	0.5685	70.00- 130.00	100.00
11.140	11.140 (0.817)	43	11096			0.00- 30.00	26.27
11.120	11.120 (0.815)	59	1427			0.00- 30.00	3.38
22 3-Chloroprene					CAS #: 107-05-1		
11.251	11.251 (0.825)	76	6027	0.50000	0.4327	70.00- 130.00	100.00(a)
11.251	11.251 (0.825)	41	24965			0.00- 30.00	414.22
25 Methylene Chloride					CAS #: 75-09-2		
11.498	11.498 (0.843)	84	16077	0.50000	0.5725	70.00- 130.00	100.00
11.498	11.498 (0.843)	49	24227			0.00- 30.00	150.69
11.498	11.498 (0.843)	51	8020			0.00- 30.00	49.88
27 MTBE					CAS #: 1634-04-4		
11.827	11.827 (0.867)	73	43923	0.50000	0.4761	70.00- 130.00	100.00
11.827	11.827 (0.867)	57	12657			0.00- 30.00	28.82
11.827	11.827 (0.867)	41	18087			0.00- 30.00	41.18
28 trans-1,2-Dichloroethene					CAS #: 156-60-5		
11.855	11.855 (0.869)	98	11262	0.50000	0.5184	70.00- 130.00	100.00
11.855	11.855 (0.869)	61	34121			0.00- 30.00	302.97
11.855	11.855 (0.869)	96	16854			0.00- 30.00	149.65

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
30 Hexane					CAS #: 110-54-3		
12.157	12.157 (0.892)	57	34645	0.50000	0.4886	70.00- 130.00	100.00
12.157	12.157 (0.892)	43	23936			0.00- 30.00	69.09
12.157	12.157 (0.892)	86	4824			0.00- 30.00	13.92
31 1,1-Dichloroethane					CAS #: 75-34-3		
12.514	12.514 (0.918)	63	40932	0.50000	0.5330	70.00- 130.00	100.00
12.514	12.514 (0.918)	65	13092			0.00- 30.00	31.98
33 Vinyl Acetate					CAS #: 108-05-4		
12.569	12.569 (0.922)	43	24987	0.50000	0.3597	70.00- 130.00	100.00(a)
12.569	12.569 (0.922)	42	2416			0.00- 30.00	9.67
12.569	12.569 (0.922)	86	1325			0.00- 30.00	5.30
36 cis-1,2-Dichloroethene					CAS #: 156-59-2		
13.305	13.305 (0.976)	98	11023	0.50000	0.4937	70.00- 130.00	100.00
13.305	13.305 (0.976)	61	32430			0.00- 30.00	294.20
13.305	13.305 (0.976)	96	18652			126.91- 186.91	169.21
37 2-Butanone					CAS #: 78-93-3		
13.326	13.326 (0.977)	72	6660	0.50000	0.4069	70.00- 130.00	100.00
13.326	13.326 (0.977)	43	47313			0.00- 30.00	710.41
13.326	13.326 (0.977)	57	3390			0.00- 30.00	50.90
38 Tetrahydrofuran					CAS #: 109-99-9		
13.636	13.636 (1.000)	42	32518	0.50000	0.5878	70.00- 130.00	100.00
13.636	13.636 (1.000)	71	8793			0.00- 30.00	27.04
13.636	13.636 (1.000)	72	10429			0.00- 30.00	32.07
40 Chloroform					CAS #: 67-66-3		
13.697	13.697 (1.005)	83	41175	0.50000	0.5350	70.00- 130.00	100.00
13.697	13.697 (1.005)	85	26740			0.00- 30.00	64.94
42 Cyclohexane					CAS #: 110-82-7		
13.882	13.882 (1.018)	84	26414	0.50000	0.5264	70.00- 130.00	100.00
13.882	13.882 (1.018)	56	42499			0.00- 30.00	160.90
13.882	13.882 (1.018)	41	24338			0.00- 30.00	92.14
43 1,1,1-Trichloroethane					CAS #: 71-55-6		
13.913	13.913 (1.020)	97	43627	0.50000	0.5474	70.00- 130.00	100.00
13.913	13.913 (1.020)	99	29629			0.00- 30.00	67.91
44 Carbon Tetrachloride					CAS #: 56-23-5		
14.067	14.067 (1.032)	119	43243	0.50000	0.5226	70.00- 130.00	100.00
14.067	14.067 (1.032)	117	41706			0.00- 30.00	96.45

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
46 Benzene					CAS #: 71-43-2		
14.365	14.365 (0.965)	78	71912	0.50000	0.5925	70.00- 130.00	100.00
14.365	14.365 (0.965)	77	15283			0.00- 30.00	21.25
45 2,2,4-Trimethylpentane					CAS #: 540-84-1		
14.338	14.338 (1.051)	56	43028	0.50000	0.5263	70.00- 130.00	100.00
14.338	14.338 (1.051)	57	134181			0.00- 30.00	311.85
14.338	14.338 (1.051)	41	37674			0.00- 30.00	87.56
49 1,2-Dichloroethane					CAS #: 107-06-2		
14.475	14.475 (0.972)	62	36624	0.50000	0.5154	70.00- 130.00	100.00
14.475	14.475 (0.972)	64	13355			0.00- 30.00	36.47
50 Heptane					CAS #: 142-82-5		
14.557	14.557 (0.978)	57	26625	0.50000	0.5177	70.00- 130.00	100.00
14.557	14.557 (0.978)	100	5450			0.00- 30.00	20.47
14.557	14.557 (0.978)	43	47788			0.00- 30.00	179.49
53 Trichloroethene					CAS #: 79-01-6		
15.244	15.244 (1.024)	130	29835	0.50000	0.5197	70.00- 130.00	100.00
15.244	15.244 (1.024)	95	28588			0.00- 30.00	95.82
15.244	15.244 (1.024)	97	17891			0.00- 30.00	59.97
54 1,2-Dichloropropane					CAS #: 78-87-5		
15.628	15.628 (1.050)	63	29280	0.50000	0.5248	70.00- 130.00	100.00
15.628	15.628 (1.050)	62	20534			0.00- 30.00	70.13
15.628	15.628 (1.050)	41	24373			32.45- 92.45	83.24
55 1,4-Dioxane					CAS #: 123-91-1		
15.765	15.765 (1.059)	88	13755	0.50000	0.4418	70.00- 130.00	100.00
15.765	15.765 (1.059)	58	14226			0.00- 30.00	103.42
15.765	15.765 (1.059)	57	5112			0.00- 30.00	37.16
56 Bromodichloromethane					CAS #: 75-27-4		
16.012	16.012 (1.076)	83	40893	0.50000	0.4697	70.00- 130.00	100.00
16.012	16.012 (1.076)	85	26907			0.00- 30.00	65.80
57 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
16.725	16.725 (1.123)	75	28637	0.50000	0.4252	70.00- 130.00	100.00
16.725	16.725 (1.123)	77	8074			0.00- 30.00	28.19
16.725	16.725 (1.123)	39	21489			34.80- 94.80	75.04
58 4-Methyl-2-pentanone					CAS #: 108-10-1		
16.904	16.904 (1.135)	43	49926	0.50000	0.4226	70.00- 130.00	100.00
16.904	16.904 (1.135)	58	19225			0.00- 30.00	38.51
16.904	16.904 (1.135)	85	5407			0.00- 30.00	10.83

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
60 Toluene					CAS #: 108-88-3		
17.173	17.173 (1.154)	91	81047	0.50000	0.5245	70.00- 130.00	100.00
17.173	17.173 (1.154)	92	49916			0.00- 30.00	61.59
61 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
17.576	17.576 (0.918)	75	33537	0.50000	0.4183	70.00- 130.00	100.00
17.576	17.576 (0.918)	77	10924			0.00- 30.00	32.57
17.576	17.576 (0.918)	39	21342			30.67- 90.67	63.64
62 1,1,2-Trichloroethane					CAS #: 79-00-5		
17.847	17.847 (0.932)	97	28975	0.50000	0.5013	70.00- 130.00	100.00
17.847	17.847 (0.932)	99	17288			0.00- 30.00	59.67
17.847	17.847 (0.932)	83	24555			52.93- 112.93	84.75
63 Tetrachloroethene					CAS #: 127-18-4		
17.964	17.964 (0.938)	166	41064	0.50000	0.5389	70.00- 130.00	100.00
17.964	17.964 (0.938)	129	33880			0.00- 30.00	82.51
17.964	17.964 (0.938)	131	30416			46.71- 106.71	74.07
64 2-Hexanone					CAS #: 591-78-6		
18.110	18.110 (0.946)	58	29806	0.50000	0.3494	70.00- 130.00	100.00(a)
18.110	18.110 (0.946)	43	55208			0.00- 30.00	185.22
18.110	18.110 (0.946)	100	3963			0.00- 30.00	13.30
66 Dibromochloromethane					CAS #: 124-48-1		
18.372	18.372 (0.960)	129	44286	0.50000	0.4417	70.00- 130.00	100.00
18.372	18.372 (0.960)	127	35492			0.00- 30.00	80.14
67 1,2-Dibromoethane					CAS #: 106-93-4		
18.576	18.576 (0.970)	107	48644	0.50000	0.5025	70.00- 130.00	100.00
18.576	18.576 (0.970)	109	44741			0.00- 30.00	91.98
69 Chlorobenzene					CAS #: 108-90-7		
19.190	19.190 (1.003)	112	89264	0.50000	0.5304	70.00- 130.00	100.00
19.190	19.190 (1.003)	114	28776			0.00- 30.00	32.24
19.165	19.165 (1.001)	77	60682			29.14- 89.14	67.98
70 Ethyl Benzene					CAS #: 100-41-4		
19.238	19.238 (1.005)	106	43198	0.50000	0.4957	70.00- 130.00	100.00
19.238	19.238 (1.005)	91	134335			0.00- 30.00	310.98
71 m,p-Xylene					CAS #: 108-38-3		
19.406	19.406 (1.014)	106	53283	0.50000	0.4809	70.00- 130.00	100.00
19.406	19.406 (1.014)	91	107077			0.00- 30.00	200.96
72 o-Xylene					CAS #: 95-47-6		
19.912	19.912 (1.040)	106	50467	0.50000	0.4815	70.00- 130.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
72 o-Xylene (continued)							
19.912	19.912 (1.040)	91	110508			0.00- 30.00	218.97
73 Styrene					CAS #: 100-42-5		
19.936	19.936 (1.042)	104	66892	0.50000	0.4097	70.00- 130.00	100.00
19.936	19.936 (1.042)	78	37601			0.00- 30.00	56.21
75 Bromoform					CAS #: 75-25-2		
20.249	20.249 (1.058)	173	37309	0.50000	0.4050	70.00- 130.00	100.00
20.249	20.249 (1.058)	171	19958			0.00- 30.00	53.49
76 Cumene					CAS #: 98-82-8		
20.346	20.346 (1.063)	105	155685	0.50000	0.5240	70.00- 130.00	100.00
20.346	20.346 (1.063)	120	39949			0.00- 30.00	25.66
79 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
20.781	20.781 (1.086)	83	84518	0.50000	0.5111	70.00- 130.00	100.00
20.781	20.781 (1.086)	85	53217			0.00- 30.00	62.97
80 Propylbenzene					CAS #: 103-65-1		
20.832	20.832 (1.088)	91	202871	0.50000	0.5782	70.00- 130.00	100.00
20.832	20.832 (1.088)	120	44682			0.00- 30.00	22.02
82 4-Ethyltoluene					CAS #: 622-96-8		
20.961	20.961 (1.095)	105	167331	0.50000	0.5253	70.00- 130.00	100.00
20.961	20.961 (1.095)	120	55026			0.00- 30.00	32.88
83 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
21.013	21.013 (1.098)	105	142921	0.50000	0.4970	70.00- 130.00	100.00
21.013	21.013 (1.098)	120	74582			0.00- 30.00	52.18
85 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
21.451	21.451 (1.121)	105	131126	0.50000	0.4792	70.00- 130.00	100.00
21.451	21.451 (1.121)	120	59304			0.00- 30.00	45.23
88 1,3-Dichlorobenzene					CAS #: 541-73-1		
21.838	21.838 (1.141)	146	86710	0.50000	0.4744	70.00- 130.00	100.00
21.838	21.838 (1.141)	148	52521			0.00- 30.00	60.57
21.838	21.838 (1.141)	111	39137			0.00- 30.00	45.14
89 1,4-Dichlorobenzene					CAS #: 106-46-7		
21.941	21.941 (1.146)	146	86621	0.50000	0.4648	70.00- 130.00	100.00
21.941	21.941 (1.146)	148	58171			0.00- 30.00	67.16
21.941	21.941 (1.146)	111	38806			0.00- 30.00	44.80
90 alpha-chlorotoluene					CAS #: 100-44-7		
22.096	22.096 (1.154)	91	92557	0.50000	0.3905	70.00- 130.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
90 alpha-chlorotoluene (continued)							
22.096	22.096 (1.154)	126	16862			0.00- 30.00	18.22
93 1,2-Dichlorobenzene					CAS #: 95-50-1		
22.379	22.379 (1.169)	146	81477	0.50000	0.4753	70.00- 130.00	100.00
22.379	22.379 (1.169)	148	50192			33.50- 93.50	61.60
22.379	22.379 (1.169)	111	40070			16.83- 76.83	49.18
97 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
24.159	24.159 (1.262)	180	31405	0.50000	0.3459	70.00- 130.00	100.00(a)
24.159	24.159 (1.262)	182	27708			0.00- 30.00	88.23
98 Hexachlorobutadiene					CAS #: 87-68-3		
24.236	24.236 (1.266)	225	27816	0.50000	0.3886	70.00- 130.00	100.00(a)
24.236	24.236 (1.266)	223	18813			0.00- 30.00	67.63
99 Naphthalene					CAS #: 91-20-3		
24.468	24.468 (1.278)	128	56602	0.50000	0.2871	70.00- 130.00	100.00(a)
24.468	24.468 (1.278)	127	7634			0.00- 30.00	13.49
179 Butane					CAS #: 106-97-8		
6.771	6.771 (0.497)	58	7525	0.50000	0.5940	70.00- 130.00	100.00
6.754	6.754 (0.495)	43	49231			0.00- 30.00	654.23
11 Isopentane					CAS #: 78-78-4		
8.757	8.757 (0.642)	57	22597	0.50000	0.6777	70.00- 130.00	100.00
8.757	8.757 (0.642)	43	32620			0.00- 30.00	144.36
8.757	8.757 (0.642)	42	25940			0.00- 30.00	114.79
167 Methylcyclohexane					CAS #: 108-87-2		
15.436	15.436 (1.132)	83	38233	0.50000	0.4967	70.00- 130.00	100.00(a)
15.436	15.436 (1.132)	98	17461			0.00- 30.00	45.67
15.436	15.436 (1.132)	55	46012			0.00- 30.00	120.35

QC Flag Legend

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

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdz.i
Lab File ID: z052307.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: kr
Method File: /chem/msdz.i/23May2007.b/t14q523a.m
Misc Info: 25ppbv->0.5ppbv

Calibration Date: 23-MAY-2007
Calibration Time: 17:44
Client Smp ID: Level 6
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
39 Bromochloromethan	195288	117173	273403	197366	1.06
52 1,4-Difluorobenze	938681	563209	1314153	971614	3.51
68 Chlorobenzene-d5	1070387	642232	1498542	1110438	3.74

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
39 Bromochloromethan	13.64	13.31	13.97	13.64	0.00
52 1,4-Difluorobenze	14.89	14.56	15.22	14.89	0.00
68 Chlorobenzene-d5	19.14	18.81	19.47	19.14	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/msdz.i/23May2007.b/z052307.d

Date : 23-MAY-2007 15:51

Client ID: Level 6

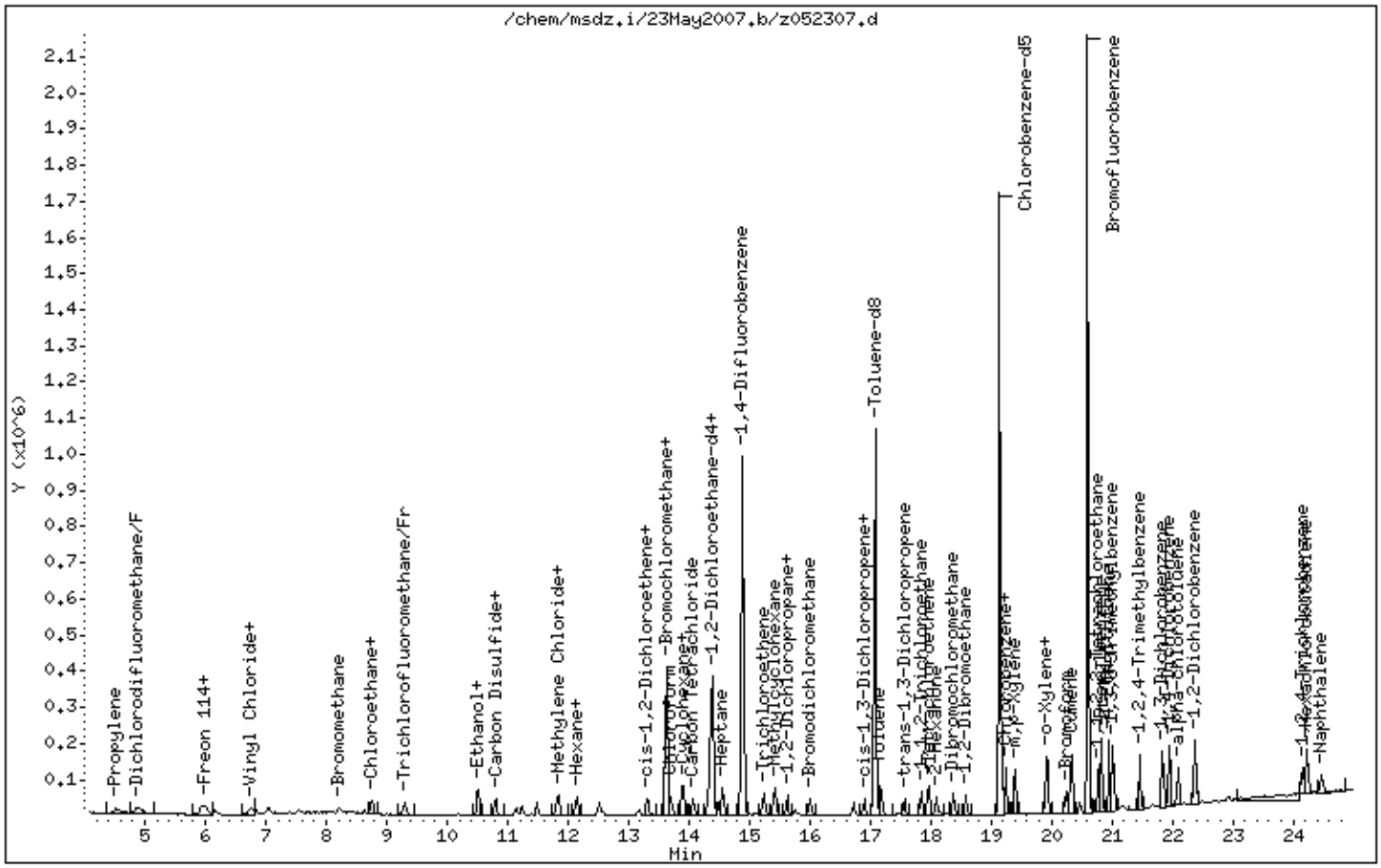
Instrument: msdz.i

Sample Info: 10mL #1443-68A

Operator: kr

Column phase: RTx-624

Column diameter: 0.32



Air Toxics Ltd.

AMBIENT AIR METHOD TO14/TO15

Data file : /chem/msdz.i/23May2007.b/z052308.d
Lab Smp Id: ICAL Client Smp ID: Level 7
Inj Date : 23-MAY-2007 16:25
Operator : kr Inst ID: msdz.i
Smp Info : 40mL #1443-68A
Misc Info : 25ppbv->2.0ppbv
Comment :
Method : /chem/msdz.i/23May2007.b/t14q523a.m
Meth Date : 24-May-2007 08:30 kreier Quant Type: ISTD
Cal Date : 23-MAY-2007 16:25 Cal File: z052308.d
Als bottle: 1 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT06+4MDL.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				AMOUNTS				
				CAL-AMT	ON-COL			
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE		RATIO
==	====== ========	====	========	=======	=======	==========		=====
* 39 Bromochloromethane						CAS #: 74-97-5		
13.636	13.636 (1.000)	130	228243	10.0000		70.00- 130.00		100.00
13.636	13.636 (1.000)	128	173825			0.00- 30.00		76.16
13.636	13.636 (1.000)	49	368598			0.00- 30.00		161.49
* 52 1,4-Difluorobenzene						CAS #: 540-36-3		
14.887	14.887 (1.000)	114	1059826	10.0000		70.00- 130.00		100.00
14.887	14.887 (1.000)	88	170232			0.00- 30.00		16.06
* 68 Chlorobenzene-d5						CAS #: 3114-55-4		
19.141	19.141 (1.000)	117	1242484	10.0000		70.00- 130.00		100.00
19.141	19.141 (1.000)	82	684352			0.00- 30.00		55.08
$ 47 1,2-Dichloroethane-d4						CAS #: 17060-07-0		
14.393	14.393 (1.056)	65	397452	10.0000	9.033	70.00- 130.00		100.00
14.393	14.393 (1.056)	67	187221			0.00- 30.00		47.11
$ 59 Toluene-d8						CAS #: 2037-26-5		
17.083	17.083 (1.148)	98	1063401	10.0000	9.998	70.00- 130.00		100.00
17.083	17.083 (1.148)	70	117317			0.00- 30.00		11.03

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
$ 59 Toluene-d8 (continued)							
17.083	17.083 (1.148)	100	713908			38.34- 98.34	67.13
$ 77 Bromofluorobenzene					CAS #: 460-00-4		
20.600	20.600 (1.076)	174	724036	10.0000	10.251	70.00- 130.00	100.00
20.600	20.600 (1.076)	95	1058738			122.14- 182.14	146.23
20.600	20.600 (1.076)	176	712438			66.57- 126.57	98.40
1 Propylene					CAS #: 115-07-1		
4.521	4.521 (0.332)	41	106868	2.00000	1.904	70.00- 130.00	100.00
4.521	4.521 (0.332)	42	73966			0.00- 30.00	69.21
4.521	4.521 (0.332)	39	73666			0.00- 30.00	68.93
3 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
4.907	4.907 (0.360)	85	295263	2.00000	2.023	70.00- 130.00	100.00
4.883	4.883 (0.358)	87	95975			2.11- 62.11	32.50
4 Freon 114					CAS #: 76-14-2		
5.967	5.967 (0.438)	135	199177	2.00000	2.108	70.00- 130.00	100.00
5.967	5.967 (0.438)	137	63476			0.00- 30.00	31.87
5 Chloromethane					CAS #: 74-87-3		
6.160	6.160 (0.452)	50	124397	2.00000	2.059	70.00- 130.00	100.00
6.160	6.160 (0.452)	52	42152			0.00- 30.00	33.89
6 Vinyl Chloride					CAS #: 75-01-4		
6.841	6.841 (0.502)	62	119870	2.00000	1.978	70.00- 130.00	100.00
6.841	6.841 (0.502)	64	36279			0.00- 59.95	30.27
7 1,3-Butadiene					CAS #: 106-99-0		
7.032	7.032 (0.516)	54	87034	2.00000	1.929	70.00- 130.00	100.00
7.032	7.032 (0.516)	39	78696			0.00- 30.00	90.42
9 Bromomethane					CAS #: 74-83-9		
8.218	8.218 (0.603)	94	62018	2.00000	2.028	70.00- 130.00	100.00
8.218	8.218 (0.603)	96	60128			64.41- 124.41	96.95
10 Chloroethane					CAS #: 75-00-3		
8.633	8.633 (0.633)	64	47316	2.00000	1.917	70.00- 130.00	100.00
8.633	8.633 (0.633)	49	13437			0.00- 30.00	28.40
8.633	8.633 (0.633)	66	14305			0.00- 30.00	30.23
13 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
9.296	9.296 (0.682)	101	263429	2.00000	2.595	70.00- 130.00	100.00
9.296	9.296 (0.682)	103	169681			34.97- 94.97	64.41

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
14 Ethanol					CAS #: 64-17-5		
10.166	10.166 (0.746)	45	26744	2.00000	1.523	70.00- 130.00	100.00
10.166	10.166 (0.746)	43	8534			0.00- 30.00	31.91
10.166	10.166 (0.746)	46	11114			0.00- 30.00	41.56
15 1,1-Dichloroethene					CAS #: 75-35-4		
10.519	10.519 (0.771)	98	46330	2.00000	2.172	70.00- 130.00	100.00
10.498	10.498 (0.770)	61	154624			0.00- 30.00	333.74
10.498	10.498 (0.770)	96	73977			0.00- 30.00	159.67
17 Freon 113					CAS #: 76-13-1		
10.519	10.519 (0.771)	151	108160	2.00000	2.245	70.00- 130.00	100.00
10.519	10.519 (0.771)	153	70303			33.46- 93.46	65.00
10.519	10.519 (0.771)	101	136022			0.00- 30.00	125.76
19 Carbon Disulfide					CAS #: 75-15-0		
10.809	10.809 (0.793)	76	223035	2.00000	2.017	70.00- 130.00	100.00
20 Acetone					CAS #: 67-64-1		
10.788	10.788 (0.791)	58	60318	2.00000	2.378	70.00- 130.00	100.00
10.788	10.788 (0.791)	43	198696			0.00- 30.00	329.41
21 2-Propanol					CAS #: 67-63-0		
11.140	11.140 (0.817)	45	146010	2.00000	1.699	70.00- 130.00	100.00
11.140	11.140 (0.817)	43	35434			0.00- 30.00	24.27
11.140	11.140 (0.817)	59	5955			0.00- 30.00	4.08
22 3-Chloroprene					CAS #: 107-05-1		
11.251	11.251 (0.825)	76	29028	2.00000	1.802	70.00- 130.00	100.00
11.251	11.251 (0.825)	41	107840			0.00- 30.00	371.50
25 Methylene Chloride					CAS #: 75-09-2		
11.498	11.498 (0.843)	84	65591	2.00000	2.020	70.00- 130.00	100.00
11.498	11.498 (0.843)	49	112200			0.00- 30.00	171.06
11.498	11.498 (0.843)	51	35687			0.00- 30.00	54.41
27 MTBE					CAS #: 1634-04-4		
11.827	11.827 (0.867)	73	207241	2.00000	1.942	70.00- 130.00	100.00
11.827	11.827 (0.867)	57	59054			0.00- 30.00	28.50
11.827	11.827 (0.867)	41	67761			0.00- 30.00	32.70
28 trans-1,2-Dichloroethene					CAS #: 156-60-5		
11.855	11.855 (0.869)	98	53772	2.00000	2.140	70.00- 130.00	100.00
11.855	11.855 (0.869)	61	155931			0.00- 30.00	289.99
11.855	11.855 (0.869)	96	84009			0.00- 30.00	156.23

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
30 Hexane					CAS #: 110-54-3		
12.157	12.157 (0.892)	57	164344	2.00000	2.004	70.00- 130.00	100.00
12.157	12.157 (0.892)	43	96809			0.00- 30.00	58.91
12.157	12.157 (0.892)	86	19966			0.00- 30.00	12.15
31 1,1-Dichloroethane					CAS #: 75-34-3		
12.514	12.514 (0.918)	63	176800	2.00000	1.991	70.00- 130.00	100.00
12.514	12.514 (0.918)	65	54375			0.00- 30.00	30.76
33 Vinyl Acetate					CAS #: 108-05-4		
12.569	12.569 (0.922)	43	93371	2.00000	1.162	70.00- 130.00	100.00
12.569	12.569 (0.922)	42	10604			0.00- 30.00	11.36
12.569	12.569 (0.922)	86	7287			0.00- 30.00	7.80
36 cis-1,2-Dichloroethene					CAS #: 156-59-2		
13.305	13.305 (0.976)	98	54512	2.00000	2.111	70.00- 130.00	100.00
13.305	13.305 (0.976)	61	146299			0.00- 30.00	268.38
13.305	13.305 (0.976)	96	84793			126.91- 186.91	155.55
37 2-Butanone					CAS #: 78-93-3		
13.326	13.326 (0.977)	72	36785	2.00000	1.943	70.00- 130.00	100.00
13.326	13.326 (0.977)	43	195334			0.00- 30.00	531.02
13.326	13.326 (0.977)	57	15620			0.00- 30.00	42.46
38 Tetrahydrofuran					CAS #: 109-99-9		
13.636	13.636 (1.000)	42	123086	2.00000	1.924	70.00- 130.00	100.00
13.636	13.636 (1.000)	71	33981			0.00- 30.00	27.61
13.636	13.636 (1.000)	72	40145			0.00- 30.00	32.62
40 Chloroform					CAS #: 67-66-3		
13.697	13.697 (1.005)	83	185199	2.00000	2.081	70.00- 130.00	100.00
13.697	13.697 (1.005)	85	122785			0.00- 30.00	66.30
42 Cyclohexane					CAS #: 110-82-7		
13.882	13.882 (1.018)	84	123937	2.00000	2.136	70.00- 130.00	100.00
13.882	13.882 (1.018)	56	196589			0.00- 30.00	158.62
13.882	13.882 (1.018)	41	101620			0.00- 30.00	81.99
43 1,1,1-Trichloroethane					CAS #: 71-55-6		
13.913	13.913 (1.020)	97	205096	2.00000	2.225	70.00- 130.00	100.00
13.913	13.913 (1.020)	99	132257			0.00- 30.00	64.49
44 Carbon Tetrachloride					CAS #: 56-23-5		
14.067	14.067 (1.032)	119	199593	2.00000	2.086	70.00- 130.00	100.00
14.067	14.067 (1.032)	117	206171			0.00- 30.00	103.30

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
46 Benzene					CAS #: 71-43-2		
14.365	14.365 (0.965)	78	292507	2.00000	2.210	70.00- 130.00	100.00
14.365	14.365 (0.965)	77	69872			0.00- 30.00	23.89
45 2,2,4-Trimethylpentane					CAS #: 540-84-1		
14.338	14.338 (1.051)	56	198885	2.00000	2.104	70.00- 130.00	100.00
14.338	14.338 (1.051)	57	588335			0.00- 30.00	295.82
14.338	14.338 (1.051)	41	152812			0.00- 30.00	76.83
49 1,2-Dichloroethane					CAS #: 107-06-2		
14.475	14.475 (0.972)	62	163775	2.00000	2.113	70.00- 130.00	100.00
14.475	14.475 (0.972)	64	50527			0.00- 30.00	30.85
50 Heptane					CAS #: 142-82-5		
14.557	14.557 (0.978)	57	117586	2.00000	2.096	70.00- 130.00	100.00
14.557	14.557 (0.978)	100	32683			0.00- 30.00	27.79
14.557	14.557 (0.978)	43	216588			0.00- 30.00	184.20
53 Trichloroethene					CAS #: 79-01-6		
15.244	15.244 (1.024)	130	141776	2.00000	2.264	70.00- 130.00	100.00
15.244	15.244 (1.024)	95	133656			0.00- 30.00	94.27
15.244	15.244 (1.024)	97	87153			0.00- 30.00	61.47
54 1,2-Dichloropropane					CAS #: 78-87-5		
15.628	15.628 (1.050)	63	128375	2.00000	2.110	70.00- 130.00	100.00
15.628	15.628 (1.050)	62	93312			0.00- 30.00	72.69
15.628	15.628 (1.050)	41	86330			32.45- 92.45	67.25
55 1,4-Dioxane					CAS #: 123-91-1		
15.765	15.765 (1.059)	88	65894	2.00000	1.940	70.00- 130.00	100.00
15.765	15.765 (1.059)	58	65262			0.00- 30.00	99.04
15.765	15.765 (1.059)	57	21556			0.00- 30.00	32.71
56 Bromodichloromethane					CAS #: 75-27-4		
16.012	16.012 (1.076)	83	200546	2.00000	2.112	70.00- 130.00	100.00
16.012	16.012 (1.076)	85	124506			0.00- 30.00	62.08
57 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
16.725	16.725 (1.123)	75	141860	2.00000	1.931	70.00- 130.00	100.00
16.725	16.725 (1.123)	77	45891			0.00- 30.00	32.35
16.725	16.725 (1.123)	39	90213			34.80- 94.80	63.59
58 4-Methyl-2-pentanone					CAS #: 108-10-1		
16.904	16.904 (1.135)	43	252873	2.00000	1.962	70.00- 130.00	100.00
16.904	16.904 (1.135)	58	102644			0.00- 30.00	40.59
16.904	16.904 (1.135)	85	34131			0.00- 30.00	13.50

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
60 Toluene					CAS #: 108-88-3		
17.173	17.173 (1.154)	91	368481	2.00000	2.186	70.00- 130.00	100.00
17.173	17.173 (1.154)	92	219132			0.00- 30.00	59.47
61 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
17.576	17.576 (0.918)	75	181923	2.00000	2.028	70.00- 130.00	100.00
17.576	17.576 (0.918)	77	55589			0.00- 30.00	30.56
17.576	17.576 (0.918)	39	110849			30.67- 90.67	60.93
62 1,1,2-Trichloroethane					CAS #: 79-00-5		
17.847	17.847 (0.932)	97	139950	2.00000	2.164	70.00- 130.00	100.00
17.847	17.847 (0.932)	99	88051			0.00- 30.00	62.92
17.847	17.847 (0.932)	83	112647			52.93- 112.93	80.49
63 Tetrachloroethene					CAS #: 127-18-4		
17.964	17.964 (0.938)	166	201533	2.00000	2.364	70.00- 130.00	100.00
17.964	17.964 (0.938)	129	154457			0.00- 30.00	76.64
17.964	17.964 (0.938)	131	150714			46.71- 106.71	74.78
64 2-Hexanone					CAS #: 591-78-6		
18.110	18.110 (0.946)	58	161158	2.00000	1.688	70.00- 130.00	100.00
18.110	18.110 (0.946)	43	294445			0.00- 30.00	182.71
18.110	18.110 (0.946)	100	26628			0.00- 30.00	16.52
66 Dibromochloromethane					CAS #: 124-48-1		
18.372	18.372 (0.960)	129	236553	2.00000	2.109	70.00- 130.00	100.00
18.372	18.372 (0.960)	127	182905			0.00- 30.00	77.32
67 1,2-Dibromoethane					CAS #: 106-93-4		
18.576	18.576 (0.970)	107	235619	2.00000	2.175	70.00- 130.00	100.00
18.576	18.576 (0.970)	109	224799			0.00- 30.00	95.41
69 Chlorobenzene					CAS #: 108-90-7		
19.190	19.190 (1.003)	112	418209	2.00000	2.221	70.00- 130.00	100.00
19.190	19.190 (1.003)	114	135775			0.00- 30.00	32.47
19.190	19.190 (1.003)	77	249493			29.14- 89.14	59.66
70 Ethyl Benzene					CAS #: 100-41-4		
19.238	19.238 (1.005)	106	214899	2.00000	2.204	70.00- 130.00	100.00
19.238	19.238 (1.005)	91	661798			0.00- 30.00	307.96
71 m,p-Xylene					CAS #: 108-38-3		
19.406	19.406 (1.014)	106	273378	2.00000	2.205	70.00- 130.00	100.00
19.406	19.406 (1.014)	91	537796			0.00- 30.00	196.72
72 o-Xylene					CAS #: 95-47-6		
19.912	19.912 (1.040)	106	267205	2.00000	2.278	70.00- 130.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
72 o-Xylene (continued)							
19.912	19.912 (1.040)	91	553615			0.00- 30.00	207.19
73 Styrene					CAS #: 100-42-5		
19.936	19.936 (1.042)	104	397431	2.00000	2.176	70.00- 130.00	100.00
19.936	19.936 (1.042)	78	203157			0.00- 30.00	51.12
75 Bromoform					CAS #: 75-25-2		
20.249	20.249 (1.058)	173	221346	2.00000	2.148	70.00- 130.00	100.00
20.249	20.249 (1.058)	171	112834			0.00- 30.00	50.98
76 Cumene					CAS #: 98-82-8		
20.346	20.346 (1.063)	105	799085	2.00000	2.404	70.00- 130.00	100.00
20.346	20.346 (1.063)	120	220151			0.00- 30.00	27.55
79 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
20.781	20.781 (1.086)	83	410961	2.00000	2.221	70.00- 130.00	100.00
20.781	20.781 (1.086)	85	267727			0.00- 30.00	65.15
80 Propylbenzene					CAS #: 103-65-1		
20.832	20.832 (1.088)	91	1004385	2.00000	2.558	70.00- 130.00	100.00
20.832	20.832 (1.088)	120	237303			0.00- 30.00	23.63
82 4-Ethyltoluene					CAS #: 622-96-8		
20.961	20.961 (1.095)	105	886892	2.00000	2.488	70.00- 130.00	100.00
20.961	20.961 (1.095)	120	272320			0.00- 30.00	30.70
83 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
21.013	21.013 (1.098)	105	759783	2.00000	2.361	70.00- 130.00	100.00
21.013	21.013 (1.098)	120	385749			0.00- 30.00	50.77
85 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
21.451	21.451 (1.121)	105	705371	2.00000	2.304	70.00- 130.00	100.00
21.451	21.451 (1.121)	120	326010			0.00- 30.00	46.22
88 1,3-Dichlorobenzene					CAS #: 541-73-1		
21.838	21.838 (1.141)	146	454292	2.00000	2.222	70.00- 130.00	100.00
21.838	21.838 (1.141)	148	288150			0.00- 30.00	63.43
21.838	21.838 (1.141)	111	211969			0.00- 30.00	46.66
89 1,4-Dichlorobenzene					CAS #: 106-46-7		
21.941	21.941 (1.146)	146	467282	2.00000	2.241	70.00- 130.00	100.00
21.941	21.941 (1.146)	148	293452			0.00- 30.00	62.80
21.941	21.941 (1.146)	111	197837			0.00- 30.00	42.34
90 alpha-chlorotoluene					CAS #: 100-44-7		
22.096	22.096 (1.154)	91	557664	2.00000	2.103	70.00- 130.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
90 alpha-chlorotoluene (continued)							
22.096	22.096 (1.154)	126	113471			0.00- 30.00	20.35
93 1,2-Dichlorobenzene					CAS #: 95-50-1		
22.379	22.379 (1.169)	146	428165	2.00000	2.232	70.00- 130.00	100.00
22.379	22.379 (1.169)	148	276705			33.50- 93.50	64.63
22.379	22.379 (1.169)	111	205923			16.83- 76.83	48.09
97 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
24.159	24.159 (1.262)	180	220914	2.00000	2.174	70.00- 130.00	100.00
24.159	24.159 (1.262)	182	209227			0.00- 30.00	94.71
98 Hexachlorobutadiene					CAS #: 87-68-3		
24.236	24.236 (1.266)	225	195190	2.00000	2.437	70.00- 130.00	100.00
24.236	24.236 (1.266)	223	126927			0.00- 30.00	65.03
99 Naphthalene					CAS #: 91-20-3		
24.468	24.468 (1.278)	128	455803	2.00000	2.066	70.00- 130.00	100.00
24.468	24.468 (1.278)	127	57008			0.00- 30.00	12.51
179 Butane					CAS #: 106-97-8		
6.754	6.754 (0.495)	58	29591	2.00000	2.020	70.00- 130.00	100.00
6.754	6.754 (0.495)	43	196279			0.00- 30.00	663.31
11 Isopentane					CAS #: 78-78-4		
8.757	8.757 (0.642)	57	71775	2.00000	1.861	70.00- 130.00	100.00
8.757	8.757 (0.642)	43	93221			0.00- 30.00	129.88
8.757	8.757 (0.642)	42	79908			0.00- 30.00	111.33
167 Methylcyclohexane					CAS #: 108-87-2		
15.436	15.436 (1.132)	83	174759	2.00000	1.963	70.00- 130.00	100.00
15.436	15.436 (1.132)	98	87743			0.00- 30.00	50.21
15.436	15.436 (1.132)	55	200509			0.00- 30.00	114.73

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdz.i
Lab File ID: z052308.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: kr
Method File: /chem/msdz.i/23May2007.b/t14q523a.m
Misc Info: 25ppbv->2.0ppbv

Calibration Date: 23-MAY-2007
Calibration Time: 17:44
Client Smp ID: Level 7
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
39 Bromochloromethan	195288	117173	273403	228243	16.88
52 1,4-Difluorobenze	938681	563209	1314153	1059826	12.91
68 Chlorobenzene-d5	1070387	642232	1498542	1242484	16.08

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
39 Bromochloromethan	13.64	13.31	13.97	13.64	0.00
52 1,4-Difluorobenze	14.89	14.56	15.22	14.89	0.00
68 Chlorobenzene-d5	19.14	18.81	19.47	19.14	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/msdz.i/23May2007.b/z052308.d

Date : 23-MAY-2007 16:25

Client ID: Level 7

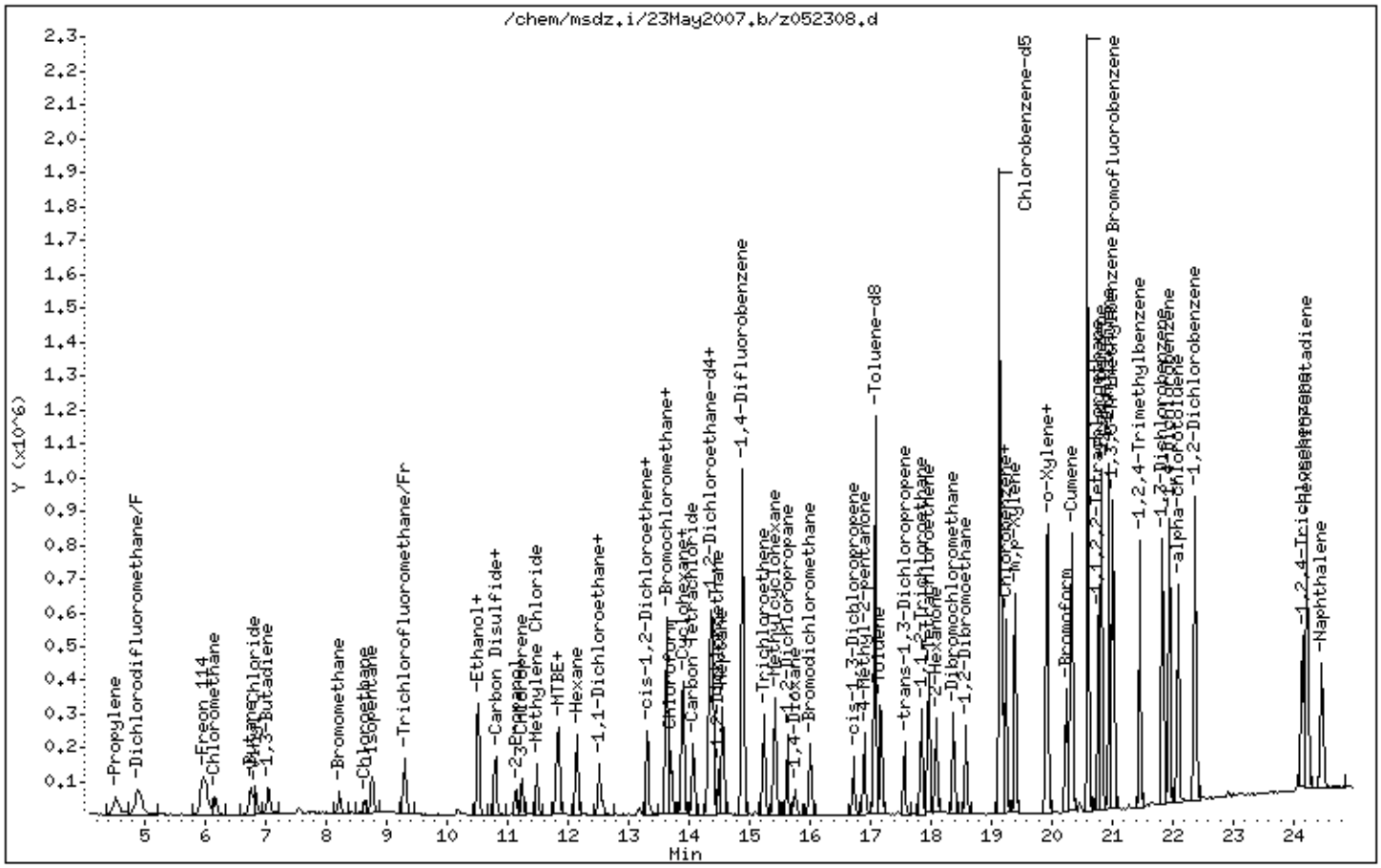
Instrument: msdz.i

Sample Info: 40mL #1443-68A

Operator: kr

Column phase: RTx-624

Column diameter: 0.32



Air Toxics Ltd.

AMBIENT AIR METHOD TO14/TO15

Data file : /chem/msdz.i/23May2007.b/z052309.d
Lab Smp Id: ICAL Client Smp ID: Level 11
Inj Date : 23-MAY-2007 17:12
Operator : kr Inst ID: msdz.i
Smp Info : 500mL #1443-68A
Misc Info : 25ppbv->25ppbv
Comment :
Method : /chem/msdz.i/23May2007.b/t14q523a.m
Meth Date : 24-May-2007 08:30 kreier Quant Type: ISTD
Cal Date : 23-MAY-2007 17:12 Cal File: z052309.d
Als bottle: 1 Calibration Sample, Level: 11
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT06+4MDL.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				AMOUNTS				
				CAL-AMT	ON-COL			
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE		RATIO
==	====== ========	====	========	=======	=======	==========		=====
* 39 Bromochloromethane						CAS #: 74-97-5		
13.636	13.636 (1.000)	130	204822	10.0000		70.00- 130.00		100.00
13.636	13.636 (1.000)	128	159926			0.00- 30.00		78.08
13.636	13.636 (1.000)	49	371671			0.00- 30.00		181.46
* 52 1,4-Difluorobenzene						CAS #: 540-36-3		
14.887	14.887 (1.000)	114	963511	10.0000		70.00- 130.00		100.00
14.887	14.887 (1.000)	88	162221			0.00- 30.00		16.84
* 68 Chlorobenzene-d5						CAS #: 3114-55-4		
19.141	19.141 (1.000)	117	1102894	10.0000		70.00- 130.00		100.00
19.141	19.141 (1.000)	82	626434			0.00- 30.00		56.80
$ 47 1,2-Dichloroethane-d4						CAS #: 17060-07-0		
14.393	14.393 (1.056)	65	375578	10.0000	9.512	70.00- 130.00		100.00
14.393	14.393 (1.056)	67	234772			0.00- 30.00		62.51
$ 59 Toluene-d8						CAS #: 2037-26-5		
17.083	17.083 (1.148)	98	972090	10.0000	10.053	70.00- 130.00		100.00
17.083	17.083 (1.148)	70	112311			0.00- 30.00		11.55

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
$ 59 Toluene-d8 (continued)							
17.083	17.083 (1.148)	100	656704			38.34- 98.34	67.56
$ 77 Bromofluorobenzene					CAS #: 460-00-4		
20.600	20.600 (1.076)	174	648491	10.0000	10.344	70.00- 130.00	100.00
20.600	20.600 (1.076)	95	958208			122.14- 182.14	147.76
20.600	20.600 (1.076)	176	608241			66.57- 126.57	93.79
1 Propylene					CAS #: 115-07-1		
4.521	4.521 (0.332)	41	1273330	25.0000	25.284	70.00- 130.00	100.00
4.521	4.521 (0.332)	42	862806			0.00- 30.00	67.76
4.521	4.521 (0.332)	39	899638			0.00- 30.00	70.65
3 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
4.883	4.883 (0.358)	85	3334983	25.0000	25.458	70.00- 130.00	100.00
4.883	4.883 (0.358)	87	1082667			2.11- 62.11	32.46
4 Freon 114					CAS #: 76-14-2		
5.967	5.967 (0.438)	135	2127035	25.0000	25.090	70.00- 130.00	100.00
5.967	5.967 (0.438)	137	677485			0.00- 30.00	31.85
5 Chloromethane					CAS #: 74-87-3		
6.160	6.160 (0.452)	50	1425398	25.0000	26.290	70.00- 130.00	100.00
6.160	6.160 (0.452)	52	461655			0.00- 30.00	32.39
6 Vinyl Chloride					CAS #: 75-01-4		
6.841	6.841 (0.502)	62	1404842	25.0000	25.839	70.00- 130.00	100.00
6.841	6.841 (0.502)	64	416253			0.00- 59.95	29.63
7 1,3-Butadiene					CAS #: 106-99-0		
7.032	7.032 (0.516)	54	1051894	25.0000	25.978	70.00- 130.00	100.00
7.032	7.032 (0.516)	39	931960			0.00- 30.00	88.60
9 Bromomethane					CAS #: 74-83-9		
8.218	8.218 (0.603)	94	697072	25.0000	25.396	70.00- 130.00	100.00
8.218	8.218 (0.603)	96	658622			64.41- 124.41	94.48
10 Chloroethane					CAS #: 75-00-3		
8.633	8.633 (0.633)	64	533376	25.0000	24.077	70.00- 130.00	100.00
8.633	8.633 (0.633)	49	149180			0.00- 30.00	27.97
8.633	8.633 (0.633)	66	161278			0.00- 30.00	30.24
13 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
9.296	9.296 (0.682)	101	2697074	25.0000	29.610	70.00- 130.00	100.00
9.296	9.296 (0.682)	103	1751742			34.97- 94.97	64.95

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
14 Ethanol					CAS #: 64-17-5		
10.166	10.166 (0.746)	45	363969	25.0000	23.099	70.00- 130.00	100.00(A)
10.166	10.166 (0.746)	43	83519			0.00- 30.00	22.95
10.166	10.166 (0.746)	46	142818			0.00- 30.00	39.24
15 1,1-Dichloroethene					CAS #: 75-35-4		
10.498	10.498 (0.770)	98	518147	25.0000	27.068	70.00- 130.00	100.00
10.498	10.498 (0.770)	61	1809154			0.00- 30.00	349.16
10.498	10.498 (0.770)	96	808776			0.00- 30.00	156.09
17 Freon 113					CAS #: 76-13-1		
10.519	10.519 (0.771)	151	1129793	25.0000	26.129	70.00- 130.00	100.00
10.519	10.519 (0.771)	153	724021			33.46- 93.46	64.08
10.519	10.519 (0.771)	101	1462822			0.00- 30.00	129.48
19 Carbon Disulfide					CAS #: 75-15-0		
10.809	10.809 (0.793)	76	2573177	25.0000	25.928	70.00- 130.00	100.00
20 Acetone					CAS #: 67-64-1		
10.767	10.767 (0.790)	58	561506	25.0000	24.667	70.00- 130.00	100.00
10.767	10.767 (0.790)	43	1811809			0.00- 30.00	322.67
21 2-Propanol					CAS #: 67-63-0		
11.120	11.120 (0.815)	45	2064507	25.0000	26.771	70.00- 130.00	100.00
11.120	11.120 (0.815)	43	402604			0.00- 30.00	19.50
11.120	11.120 (0.815)	59	72182			0.00- 30.00	3.50
22 3-Chloroprene					CAS #: 107-05-1		
11.251	11.251 (0.825)	76	375272	25.0000	25.962	70.00- 130.00	100.00
11.251	11.251 (0.825)	41	1416581			0.00- 30.00	377.48
25 Methylene Chloride					CAS #: 75-09-2		
11.498	11.498 (0.843)	84	730024	25.0000	25.048	70.00- 130.00	100.00
11.498	11.498 (0.843)	49	1297487			0.00- 30.00	177.73
11.498	11.498 (0.843)	51	410151			0.00- 30.00	56.18
27 MTBE					CAS #: 1634-04-4		
11.827	11.827 (0.867)	73	2717062	25.0000	28.380	70.00- 130.00	100.00
11.827	11.827 (0.867)	57	785774			0.00- 30.00	28.92
11.827	11.827 (0.867)	41	772878			0.00- 30.00	28.45
28 trans-1,2-Dichloroethene					CAS #: 156-60-5		
11.855	11.855 (0.869)	98	598775	25.0000	26.559	70.00- 130.00	100.00
11.855	11.855 (0.869)	61	1803333			0.00- 30.00	301.17
11.855	11.855 (0.869)	96	953975			0.00- 30.00	159.32

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
30 Hexane					CAS #: 110-54-3		
12.157	12.157 (0.892)	57	2004329	25.0000	27.240	70.00- 130.00	100.00
12.157	12.157 (0.892)	43	1185687			0.00- 30.00	59.16
12.157	12.157 (0.892)	86	248391			0.00- 30.00	12.39
31 1,1-Dichloroethane					CAS #: 75-34-3		
12.514	12.514 (0.918)	63	2092432	25.0000	26.254	70.00- 130.00	100.00
12.514	12.514 (0.918)	65	621237			0.00- 30.00	29.69
33 Vinyl Acetate					CAS #: 108-05-4		
12.541	12.541 (0.920)	43	1896673	25.0000	26.311	70.00- 130.00	100.00
12.541	12.541 (0.920)	42	168119			0.00- 30.00	8.86
12.568	12.568 (0.922)	86	139959			0.00- 30.00	7.38
36 cis-1,2-Dichloroethene					CAS #: 156-59-2		
13.305	13.305 (0.976)	98	618064	25.0000	26.674	70.00- 130.00	100.00
13.305	13.305 (0.976)	61	1722721			0.00- 30.00	278.73
13.305	13.305 (0.976)	96	974108			126.91- 186.91	157.61
37 2-Butanone					CAS #: 78-93-3		
13.305	13.305 (0.976)	72	475155	25.0000	27.974	70.00- 130.00	100.00
13.305	13.305 (0.976)	43	2465475			0.00- 30.00	518.88
13.305	13.305 (0.976)	57	213445			0.00- 30.00	44.92
38 Tetrahydrofuran					CAS #: 109-99-9		
13.636	13.636 (1.000)	42	1470992	25.0000	25.620	70.00- 130.00	100.00
13.636	13.636 (1.000)	71	441531			0.00- 30.00	30.02
13.636	13.636 (1.000)	72	478332			0.00- 30.00	32.52
40 Chloroform					CAS #: 67-66-3		
13.697	13.697 (1.005)	83	2077994	25.0000	26.018	70.00- 130.00	100.00
13.697	13.697 (1.005)	85	1334992			0.00- 30.00	64.24
42 Cyclohexane					CAS #: 110-82-7		
13.882	13.882 (1.018)	84	1440945	25.0000	27.672	70.00- 130.00	100.00
13.882	13.882 (1.018)	56	2321555			0.00- 30.00	161.11
13.882	13.882 (1.018)	41	1175970			0.00- 30.00	81.61
43 1,1,1-Trichloroethane					CAS #: 71-55-6		
13.913	13.913 (1.020)	97	2272135	25.0000	27.472	70.00- 130.00	100.00
13.913	13.913 (1.020)	99	1464471			0.00- 30.00	64.45
44 Carbon Tetrachloride					CAS #: 56-23-5		
14.067	14.067 (1.032)	119	2315089	25.0000	26.962	70.00- 130.00	100.00
14.067	14.067 (1.032)	117	2379456			0.00- 30.00	102.78

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
46 Benzene					CAS #: 71-43-2		
14.365	14.365 (0.965)	78	3206448	25.0000	26.643	70.00- 130.00	100.00
14.365	14.365 (0.965)	77	734258			0.00- 30.00	22.90
45 2,2,4-Trimethylpentane					CAS #: 540-84-1		
14.338	14.338 (1.051)	56	2351158	25.0000	27.714	70.00- 130.00	100.00(A)
14.338	14.338 (1.051)	57	7273469			0.00- 30.00	309.36
14.338	14.338 (1.051)	41	1822400			0.00- 30.00	77.51
49 1,2-Dichloroethane					CAS #: 107-06-2		
14.475	14.475 (0.972)	62	1949527	25.0000	27.665	70.00- 130.00	100.00
14.475	14.475 (0.972)	64	597419			0.00- 30.00	30.64
50 Heptane					CAS #: 142-82-5		
14.557	14.557 (0.978)	57	1452060	25.0000	28.470	70.00- 130.00	100.00
14.557	14.557 (0.978)	100	370385			0.00- 30.00	25.51
14.557	14.557 (0.978)	43	2642731			0.00- 30.00	182.00
53 Trichloroethene					CAS #: 79-01-6		
15.244	15.244 (1.024)	130	1565635	25.0000	27.503	70.00- 130.00	100.00
15.244	15.244 (1.024)	95	1499597			0.00- 30.00	95.78
15.244	15.244 (1.024)	97	970429			0.00- 30.00	61.98
54 1,2-Dichloropropane					CAS #: 78-87-5		
15.628	15.628 (1.050)	63	1499689	25.0000	27.107	70.00- 130.00	100.00
15.628	15.628 (1.050)	62	1087738			0.00- 30.00	72.53
15.628	15.628 (1.050)	41	962092			32.45- 92.45	64.15
55 1,4-Dioxane					CAS #: 123-91-1		
15.765	15.765 (1.059)	88	823085	25.0000	26.660	70.00- 130.00	100.00
15.765	15.765 (1.059)	58	812156			0.00- 30.00	98.67
15.765	15.765 (1.059)	57	263459			0.00- 30.00	32.01
56 Bromodichloromethane					CAS #: 75-27-4		
16.012	16.012 (1.076)	83	2413718	25.0000	27.959	70.00- 130.00	100.00
16.012	16.012 (1.076)	85	1540192			0.00- 30.00	63.81
57 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
16.725	16.725 (1.123)	75	1874229	25.0000	28.061	70.00- 130.00	100.00
16.725	16.725 (1.123)	77	591368			0.00- 30.00	31.55
16.725	16.725 (1.123)	39	1227663			34.80- 94.80	65.50
58 4-Methyl-2-pentanone					CAS #: 108-10-1		
16.904	16.904 (1.135)	43	3563027	25.0000	30.413	70.00- 130.00	100.00
16.904	16.904 (1.135)	58	1454715			0.00- 30.00	40.83
16.904	16.904 (1.135)	85	488093			0.00- 30.00	13.70

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
60 Toluene					CAS #: 108-88-3		
17.173	17.173 (1.154)	91	4159378	25.0000	27.146	70.00- 130.00	100.00
17.173	17.173 (1.154)	92	2511996			0.00- 30.00	60.39
61 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
17.576	17.576 (0.918)	75	2193739	25.0000	27.549	70.00- 130.00	100.00
17.576	17.576 (0.918)	77	696670			0.00- 30.00	31.76
17.576	17.576 (0.918)	39	1345028			30.67- 90.67	61.31
62 1,1,2-Trichloroethane					CAS #: 79-00-5		
17.847	17.847 (0.932)	97	1567092	25.0000	27.296	70.00- 130.00	100.00
17.847	17.847 (0.932)	99	979112			0.00- 30.00	62.48
17.847	17.847 (0.932)	83	1283585			52.93- 112.93	81.91
63 Tetrachloroethene					CAS #: 127-18-4		
17.964	17.964 (0.938)	166	2091508	25.0000	27.637	70.00- 130.00	100.00
17.964	17.964 (0.938)	129	1674002			0.00- 30.00	80.04
17.964	17.964 (0.938)	131	1587170			46.71- 106.71	75.89
64 2-Hexanone					CAS #: 591-78-6		
18.110	18.110 (0.946)	58	2435641	25.0000	28.746	70.00- 130.00	100.00
18.110	18.110 (0.946)	43	4310302			0.00- 30.00	176.97
18.110	18.110 (0.946)	100	372545			0.00- 30.00	15.30
66 Dibromochloromethane					CAS #: 124-48-1		
18.372	18.372 (0.960)	129	2882512	25.0000	28.947	70.00- 130.00	100.00
18.372	18.372 (0.960)	127	2232577			0.00- 30.00	77.45
67 1,2-Dibromoethane					CAS #: 106-93-4		
18.576	18.576 (0.970)	107	2705302	25.0000	28.139	70.00- 130.00	100.00
18.576	18.576 (0.970)	109	2575274			0.00- 30.00	95.19
69 Chlorobenzene					CAS #: 108-90-7		
19.189	19.189 (1.003)	112	4579386	25.0000	27.398	70.00- 130.00	100.00
19.189	19.189 (1.003)	114	1461621			0.00- 30.00	31.92
19.189	19.189 (1.003)	77	2683257			29.14- 89.14	58.59
70 Ethyl Benzene					CAS #: 100-41-4		
19.238	19.238 (1.005)	106	2459780	25.0000	28.419	70.00- 130.00	100.00
19.238	19.238 (1.005)	91	7672759			0.00- 30.00	311.93
71 m,p-Xylene					CAS #: 108-38-3		
19.406	19.406 (1.014)	106	3172588	25.0000	28.832	70.00- 130.00	100.00
19.406	19.406 (1.014)	91	6282709			0.00- 30.00	198.03
72 o-Xylene					CAS #: 95-47-6		
19.912	19.912 (1.040)	106	3097023	25.0000	29.751	70.00- 130.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
72 o-Xylene (continued)							
19.912	19.912 (1.040)	91	6418345			0.00- 30.00	207.24
73 Styrene					CAS #: 100-42-5		
19.936	19.936 (1.042)	104	5011637	25.0000	30.908	70.00- 130.00	100.00
19.936	19.936 (1.042)	78	2530470			0.00- 30.00	50.49
75 Bromoform					CAS #: 75-25-2		
20.249	20.249 (1.058)	173	2856163	25.0000	31.221	70.00- 130.00	100.00
20.249	20.249 (1.058)	171	1482788			0.00- 30.00	51.92
76 Cumene					CAS #: 98-82-8		
20.346	20.346 (1.063)	105	9180562	25.0000	31.112	70.00- 130.00	100.00
20.346	20.346 (1.063)	120	2487570			0.00- 30.00	27.10
79 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
20.781	20.781 (1.086)	83	4664947	25.0000	28.402	70.00- 130.00	100.00
20.781	20.781 (1.086)	85	2995249			0.00- 30.00	64.21
80 Propylbenzene					CAS #: 103-65-1		
20.832	20.832 (1.088)	91	11529254	25.0000	33.081	70.00- 130.00	100.00
20.832	20.832 (1.088)	120	2676265			0.00- 30.00	23.21
82 4-Ethyltoluene					CAS #: 622-96-8		
20.961	20.961 (1.095)	105	10261584	25.0000	32.436	70.00- 130.00	100.00
20.961	20.961 (1.095)	120	3112215			0.00- 30.00	30.33
83 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
21.013	21.013 (1.098)	105	8644706	25.0000	30.269	70.00- 130.00	100.00
21.013	21.013 (1.098)	120	4244122			0.00- 30.00	49.10
85 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
21.451	21.451 (1.121)	105	8483183	25.0000	31.214	70.00- 130.00	100.00
21.451	21.451 (1.121)	120	3886487			0.00- 30.00	45.81
88 1,3-Dichlorobenzene					CAS #: 541-73-1		
21.838	21.838 (1.141)	146	5147475	25.0000	28.357	70.00- 130.00	100.00
21.838	21.838 (1.141)	148	3267585			0.00- 30.00	63.48
21.838	21.838 (1.141)	111	2349455			0.00- 30.00	45.64
89 1,4-Dichlorobenzene					CAS #: 106-46-7		
21.941	21.941 (1.146)	146	5349745	25.0000	28.902	70.00- 130.00	100.00
21.941	21.941 (1.146)	148	3373669			0.00- 30.00	63.06
21.941	21.941 (1.146)	111	2329173			0.00- 30.00	43.54
90 alpha-chlorotoluene					CAS #: 100-44-7		
22.096	22.096 (1.154)	91	7651087	25.0000	32.504	70.00- 130.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
90 alpha-chlorotoluene (continued)							
22.096	22.096 (1.154)	126	1549705			0.00- 30.00	20.25
93 1,2-Dichlorobenzene					CAS #: 95-50-1		
22.379	22.379 (1.169)	146	4961202	25.0000	29.142	70.00- 130.00	100.00
22.379	22.379 (1.169)	148	3129914			33.50- 93.50	63.09
22.379	22.379 (1.169)	111	2337549			16.83- 76.83	47.12
97 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
24.159	24.159 (1.262)	180	2521329	25.0000	27.959	70.00- 130.00	100.00
24.159	24.159 (1.262)	182	2413511			0.00- 30.00	95.72
98 Hexachlorobutadiene					CAS #: 87-68-3		
24.236	24.236 (1.266)	225	2093500	25.0000	29.446	70.00- 130.00	100.00
24.236	24.236 (1.266)	223	1318243			0.00- 30.00	62.97
99 Naphthalene					CAS #: 91-20-3		
24.468	24.468 (1.278)	128	5548371	25.0000	28.334	70.00- 130.00	100.00
24.468	24.468 (1.278)	127	694105			0.00- 30.00	12.51
179 Butane					CAS #: 106-97-8		
6.754	6.754 (0.495)	58	330787	25.0000	25.160	70.00- 130.00	100.00
6.754	6.754 (0.495)	43	2343471			0.00- 30.00	708.45
11 Isopentane					CAS #: 78-78-4		
8.757	8.757 (0.642)	57	838049	25.0000	24.217	70.00- 130.00	100.00
8.757	8.757 (0.642)	43	1069021			0.00- 30.00	127.56
8.757	8.757 (0.642)	42	919466			0.00- 30.00	109.72
167 Methylcyclohexane					CAS #: 108-87-2		
15.436	15.436 (1.132)	83	2145299	25.0000	26.858	70.00- 130.00	100.00
15.436	15.436 (1.132)	98	1031135			0.00- 30.00	48.06
15.436	15.436 (1.132)	55	2500714			0.00- 30.00	116.57

QC Flag Legend

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

Report Date: 24-May-2007 08:30

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdz.i
Lab File ID: z052309.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: kr
Method File: /chem/msdz.i/23May2007.b/t14q523a.m
Misc Info: 25ppbv->25ppbv

Calibration Date: 23-MAY-2007
Calibration Time: 17:44
Client Smp ID: Level 11
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
39 Bromochloromethan	195288	117173	273403	204822	4.88
52 1,4-Difluorobenze	938681	563209	1314153	963511	2.65
68 Chlorobenzene-d5	1070387	642232	1498542	1102894	3.04

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
39 Bromochloromethan	13.64	13.31	13.97	13.64	0.00
52 1,4-Difluorobenze	14.89	14.56	15.22	14.89	0.00
68 Chlorobenzene-d5	19.14	18.81	19.47	19.14	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/msdz.i/23May2007.b/z052309.d

Date : 23-MAY-2007 17:12

Client ID: Level 11

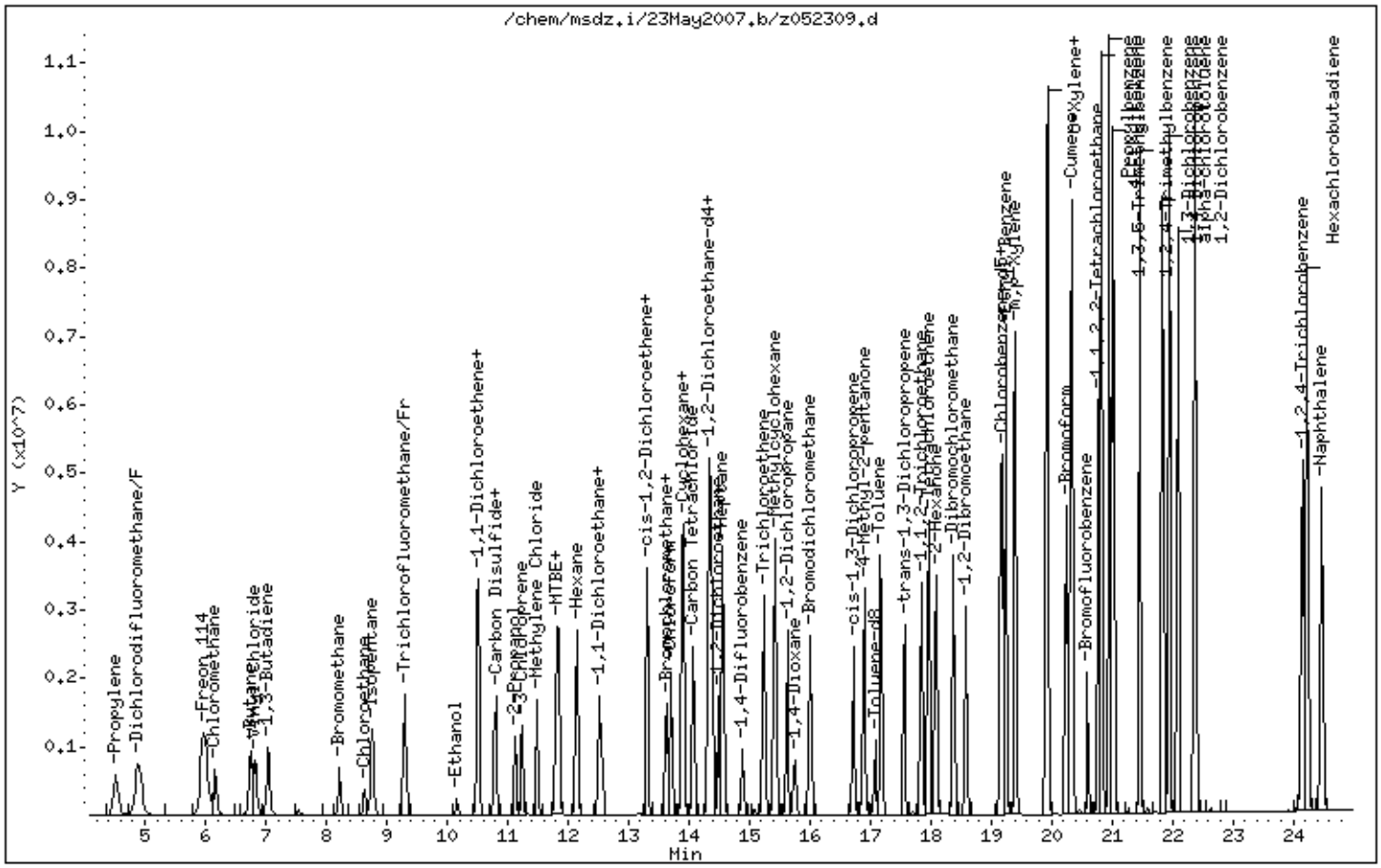
Instrument: msdz.i

Sample Info: 500mL #1443-68A

Operator: kr

Column phase: RTx-624

Column diameter: 0.32



Air Toxics Ltd.

AMBIENT AIR METHOD TO14/TO15

Data file : /chem/msdz.i/23May2007.b/z052310.d
Lab Smp Id: ICAL Client Smp ID: Level 13
Inj Date : 23-MAY-2007 17:44
Operator : kr Inst ID: msdz.i
Smp Info : 125mL #1487-264
Misc Info : 200ppbv->50ppbv
Comment :
Method : /chem/msdz.i/23May2007.b/t14q523a.m
Meth Date : 24-May-2007 08:30 kreier Quant Type: ISTD
Cal Date : 23-MAY-2007 17:44 Cal File: z052310.d
Als bottle: 1 Calibration Sample, Level: 13
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT06+4MDL.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				AMOUNTS				
				CAL-AMT	ON-COL			
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE		RATIO
==	====== ========	====	========	=======	=======	==========		=====
* 39 Bromochloromethane						CAS #: 74-97-5		
13.635	13.635 (1.000)	130	195288	10.0000		80.00- 120.00		100.00
13.635	13.635 (1.000)	128	154699			0.00- 30.00		79.22
13.635	13.635 (1.000)	49	362698			0.00- 30.00		185.72
* 52 1,4-Difluorobenzene						CAS #: 540-36-3		
14.887	14.887 (1.000)	114	938681	10.0000		80.00- 120.00		100.00
14.887	14.887 (1.000)	88	158510			0.00- 30.00		16.89
* 68 Chlorobenzene-d5						CAS #: 3114-55-4		
19.141	19.141 (1.000)	117	1070387	10.0000		80.00- 120.00		100.00
19.141	19.141 (1.000)	82	611655			0.00- 30.00		57.14
$ 47 1,2-Dichloroethane-d4						CAS #: 17060-07-0		
14.392	14.392 (1.056)	65	392266	10.0000	10.420	80.00- 120.00		100.00
14.392	14.392 (1.056)	67	260891			0.00- 30.00		66.51
$ 59 Toluene-d8						CAS #: 2037-26-5		
17.083	17.083 (1.148)	98	962399	10.0000	10.216	80.00- 120.00		100.00
17.083	17.083 (1.148)	70	113307			0.00- 30.00		11.77

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
$ 59 Toluene-d8 (continued)							
17.083	17.083 (1.148)	100	657680			38.34- 98.34	68.34
$ 77 Bromofluorobenzene					CAS #: 460-00-4		
20.600	20.600 (1.076)	174	586835	10.0000	9.644	80.00- 120.00	100.00
20.600	20.600 (1.076)	95	892827			122.14- 182.14	152.14
20.600	20.600 (1.076)	176	566731			66.57- 126.57	96.57
1 Propylene					CAS #: 115-07-1		
4.497	4.497 (0.330)	41	2334039	50.0000	48.609	80.00- 120.00	100.00(A)
4.497	4.497 (0.330)	42	1576113			0.00- 30.00	67.53
4.497	4.497 (0.330)	39	1636001			0.00- 30.00	70.09
3 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
4.882	4.882 (0.358)	85	6043463	50.0000	48.385	80.00- 120.00	100.00(A)
4.882	4.882 (0.358)	87	1940790			2.11- 62.11	32.11
4 Freon 114					CAS #: 76-14-2		
5.967	5.967 (0.438)	135	3890088	50.0000	48.127	80.00- 120.00	100.00(A)
5.967	5.967 (0.438)	137	1237028			0.00- 30.00	31.80
5 Chloromethane					CAS #: 74-87-3		
6.160	6.160 (0.452)	50	2594296	50.0000	50.186	80.00- 120.00	100.00(A)
6.160	6.160 (0.452)	52	847256			0.00- 30.00	32.66
6 Vinyl Chloride					CAS #: 75-01-4		
6.823	6.823 (0.500)	62	2539625	50.0000	48.992	80.00- 120.00	100.00(A)
6.823	6.823 (0.500)	64	760524			0.00- 59.95	29.95
7 1,3-Butadiene					CAS #: 106-99-0		
7.031	7.031 (0.516)	54	1942020	50.0000	50.303	80.00- 120.00	100.00(A)
7.031	7.031 (0.516)	39	1721926			0.00- 30.00	88.67
9 Bromomethane					CAS #: 74-83-9		
8.218	8.218 (0.603)	94	1306438	50.0000	49.920	80.00- 120.00	100.00(A)
8.218	8.218 (0.603)	96	1233345			64.41- 124.41	94.41
10 Chloroethane					CAS #: 75-00-3		
8.632	8.632 (0.633)	64	986934	50.0000	46.726	80.00- 120.00	100.00(A)
8.632	8.632 (0.633)	49	275868			0.00- 30.00	27.95
8.632	8.632 (0.633)	66	296876			0.00- 30.00	30.08
13 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
9.296	9.296 (0.682)	101	3293965	50.0000	37.929	80.00- 120.00	100.00
9.296	9.296 (0.682)	103	2140179			34.97- 94.97	64.97

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
14 Ethanol					CAS #: 64-17-5		
10.166	10.166 (0.746)	45	853503	50.0000	56.812	80.00- 120.00	100.00(A)
10.166	10.166 (0.746)	43	188464			0.00- 30.00	22.08
10.166	10.166 (0.746)	46	333145			0.00- 30.00	39.03
15 1,1-Dichloroethene					CAS #: 75-35-4		
10.498	10.498 (0.770)	98	934399	50.0000	51.196	80.00- 120.00	100.00(A)
10.498	10.498 (0.770)	61	3256801			0.00- 30.00	348.55
10.498	10.498 (0.770)	96	1460061			0.00- 30.00	156.26
17 Freon 113					CAS #: 76-13-1		
10.518	10.518 (0.771)	151	2037410	50.0000	49.420	80.00- 120.00	100.00(A)
10.518	10.518 (0.771)	153	1292874			33.46- 93.46	63.46
10.518	10.518 (0.771)	101	2635633			0.00- 30.00	129.36
19 Carbon Disulfide					CAS #: 75-15-0		
10.809	10.809 (0.793)	76	4753863	50.0000	50.239	80.00- 120.00	100.00(A)
20 Acetone					CAS #: 67-64-1		
10.767	10.767 (0.790)	58	1053884	50.0000	48.558	80.00- 120.00	100.00(A)
10.767	10.767 (0.790)	43	3349567			0.00- 30.00	317.83
21 2-Propanol					CAS #: 67-63-0		
11.140	11.140 (0.817)	45	4373885	50.0000	59.486	80.00- 120.00	100.00(A)
11.140	11.140 (0.817)	43	767941			0.00- 30.00	17.56
11.140	11.140 (0.817)	59	147068			0.00- 30.00	3.36
22 3-Chloroprene					CAS #: 107-05-1		
11.250	11.250 (0.825)	76	702192	50.0000	50.950	80.00- 120.00	100.00(A)
11.250	11.250 (0.825)	41	2638834			0.00- 30.00	375.80
25 Methylene Chloride					CAS #: 75-09-2		
11.498	11.498 (0.843)	84	1339909	50.0000	48.219	80.00- 120.00	100.00(A)
11.498	11.498 (0.843)	49	2365626			0.00- 30.00	176.55
11.498	11.498 (0.843)	51	733741			0.00- 30.00	54.76
27 MTBE					CAS #: 1634-04-4		
11.827	11.827 (0.867)	73	4823732	50.0000	52.843	80.00- 120.00	100.00(A)
11.827	11.827 (0.867)	57	1369806			0.00- 30.00	28.40
11.827	11.827 (0.867)	41	1338313			0.00- 30.00	27.74
28 trans-1,2-Dichloroethene					CAS #: 156-60-5		
11.854	11.854 (0.869)	98	1081467	50.0000	50.310	80.00- 120.00	100.00(A)
11.854	11.854 (0.869)	61	3267881			0.00- 30.00	302.17
11.854	11.854 (0.869)	96	1693996			0.00- 30.00	156.64

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
30 Hexane					CAS #: 110-54-3		
12.156	12.156 (0.892)	57	3653501	50.0000	52.076	80.00- 120.00	100.00(A)
12.156	12.156 (0.892)	43	2129337			0.00- 30.00	58.28
12.156	12.156 (0.892)	86	454847			0.00- 30.00	12.45
31 1,1-Dichloroethane					CAS #: 75-34-3		
12.513	12.513 (0.918)	63	3826829	50.0000	50.360	80.00- 120.00	100.00(A)
12.513	12.513 (0.918)	65	1134098			0.00- 30.00	29.64
33 Vinyl Acetate					CAS #: 108-05-4		
12.568	12.568 (0.922)	43	3988983	50.0000	58.038	80.00- 120.00	100.00(A)
12.568	12.568 (0.922)	42	339998			0.00- 30.00	8.52
12.568	12.568 (0.922)	86	295591			0.00- 30.00	7.41
36 cis-1,2-Dichloroethene					CAS #: 156-59-2		
13.305	13.305 (0.976)	98	1129704	50.0000	51.136	80.00- 120.00	100.00(A)
13.305	13.305 (0.976)	61	3128956			0.00- 30.00	276.97
13.305	13.305 (0.976)	96	1772625			126.91- 186.91	156.91
37 2-Butanone					CAS #: 78-93-3		
13.326	13.326 (0.977)	72	878632	50.0000	54.253	80.00- 120.00	100.00(A)
13.326	13.326 (0.977)	43	4495502			0.00- 30.00	511.65
13.326	13.326 (0.977)	57	390938			0.00- 30.00	44.49
38 Tetrahydrofuran					CAS #: 109-99-9		
13.635	13.635 (1.000)	42	2766166	50.0000	50.530	80.00- 120.00	100.00(A)
13.635	13.635 (1.000)	71	852917			0.00- 30.00	30.83
13.635	13.635 (1.000)	72	897985			0.00- 30.00	32.46
40 Chloroform					CAS #: 67-66-3		
13.697	13.697 (1.005)	83	3796982	50.0000	49.862	80.00- 120.00	100.00(A)
13.697	13.697 (1.005)	85	2453971			0.00- 30.00	64.63
42 Cyclohexane					CAS #: 110-82-7		
13.882	13.882 (1.018)	84	2544552	50.0000	51.252	80.00- 120.00	100.00(A)
13.882	13.882 (1.018)	56	4081295			0.00- 30.00	160.39
13.882	13.882 (1.018)	41	2021754			0.00- 30.00	79.45
43 1,1,1-Trichloroethane					CAS #: 71-55-6		
13.913	13.913 (1.020)	97	4011419	50.0000	50.869	80.00- 120.00	100.00(A)
13.913	13.913 (1.020)	99	2548637			0.00- 30.00	63.53
44 Carbon Tetrachloride					CAS #: 56-23-5		
14.067	14.067 (1.032)	119	4193216	50.0000	51.220	80.00- 120.00	100.00(A)
14.067	14.067 (1.032)	117	4316146			0.00- 30.00	102.93

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
46 Benzene					CAS #: 71-43-2		
14.365	14.365 (0.965)	78	5779447	50.0000	49.292	80.00- 120.00	100.00(A)
14.365	14.365 (0.965)	77	1311080			0.00- 30.00	22.69
45 2,2,4-Trimethylpentane					CAS #: 540-84-1		
14.338	14.338 (1.051)	56	4263974	50.0000	52.714	80.00- 120.00	100.00(A)
14.338	14.338 (1.051)	57	13257134			0.00- 30.00	310.91
14.338	14.338 (1.051)	41	3277057			0.00- 30.00	76.85
49 1,2-Dichloroethane					CAS #: 107-06-2		
14.475	14.475 (0.972)	62	3551278	50.0000	51.728	80.00- 120.00	100.00(A)
14.475	14.475 (0.972)	64	1094028			0.00- 30.00	30.81
50 Heptane					CAS #: 142-82-5		
14.557	14.557 (0.978)	57	2649002	50.0000	53.311	80.00- 120.00	100.00(A)
14.557	14.557 (0.978)	100	674660			0.00- 30.00	25.47
14.557	14.557 (0.978)	43	4727794			0.00- 30.00	178.47
53 Trichloroethene					CAS #: 79-01-6		
15.243	15.243 (1.024)	130	2822971	50.0000	50.902	80.00- 120.00	100.00(A)
15.243	15.243 (1.024)	95	2683970			0.00- 30.00	95.08
15.243	15.243 (1.024)	97	1744446			0.00- 30.00	61.79
54 1,2-Dichloropropane					CAS #: 78-87-5		
15.628	15.628 (1.050)	63	2777006	50.0000	51.523	80.00- 120.00	100.00(A)
15.628	15.628 (1.050)	62	2011262			0.00- 30.00	72.43
15.628	15.628 (1.050)	41	1734250			32.45- 92.45	62.45
55 1,4-Dioxane					CAS #: 123-91-1		
15.765	15.765 (1.059)	88	1577518	50.0000	52.447	80.00- 120.00	100.00(A)
15.765	15.765 (1.059)	58	1534882			0.00- 30.00	97.30
15.765	15.765 (1.059)	57	494420			0.00- 30.00	31.34
56 Bromodichloromethane					CAS #: 75-27-4		
16.012	16.012 (1.076)	83	4466464	50.0000	53.105	80.00- 120.00	100.00(A)
16.012	16.012 (1.076)	85	2839054			0.00- 30.00	63.56
57 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
16.725	16.725 (1.123)	75	3580536	50.0000	55.026	80.00- 120.00	100.00(A)
16.725	16.725 (1.123)	77	1121514			0.00- 30.00	31.32
16.725	16.725 (1.123)	39	2320050			34.80- 94.80	64.80
58 4-Methyl-2-pentanone					CAS #: 108-10-1		
16.904	16.904 (1.135)	43	6501123	50.0000	56.959	80.00- 120.00	100.00(A)
16.904	16.904 (1.135)	58	2678590			0.00- 30.00	41.20
16.904	16.904 (1.135)	85	903997			0.00- 30.00	13.91

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
60 Toluene					CAS #: 108-88-3		
17.173	17.173 (1.154)	91	7585094	50.0000	50.813	80.00- 120.00	100.00(A)
17.173	17.173 (1.154)	92	4572435			0.00- 30.00	60.28
61 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
17.576	17.576 (0.918)	75	4108764	50.0000	53.166	80.00- 120.00	100.00(A)
17.576	17.576 (0.918)	77	1303930			0.00- 30.00	31.74
17.576	17.576 (0.918)	39	2492803			30.67- 90.67	60.67
62 1,1,2-Trichloroethane					CAS #: 79-00-5		
17.847	17.847 (0.932)	97	2816969	50.0000	50.557	80.00- 120.00	100.00(A)
17.847	17.847 (0.932)	99	1774045			0.00- 30.00	62.98
17.847	17.847 (0.932)	83	2336051			52.93- 112.93	82.93
63 Tetrachloroethene					CAS #: 127-18-4		
17.964	17.964 (0.938)	166	3679858	50.0000	50.102	80.00- 120.00	100.00(A)
17.964	17.964 (0.938)	129	2969878			0.00- 30.00	80.71
17.964	17.964 (0.938)	131	2822792			46.71- 106.71	76.71
64 2-Hexanone					CAS #: 591-78-6		
18.109	18.109 (0.946)	58	4494367	50.0000	54.655	80.00- 120.00	100.00(A)
18.109	18.109 (0.946)	43	7856160			0.00- 30.00	174.80
18.109	18.109 (0.946)	100	705144			0.00- 30.00	15.69
66 Dibromochloromethane					CAS #: 124-48-1		
18.372	18.372 (0.960)	129	5215549	50.0000	53.966	80.00- 120.00	100.00(A)
18.372	18.372 (0.960)	127	4048309			0.00- 30.00	77.62
67 1,2-Dibromoethane					CAS #: 106-93-4		
18.576	18.576 (0.970)	107	4865207	50.0000	52.142	80.00- 120.00	100.00(A)
18.576	18.576 (0.970)	109	4569546			0.00- 30.00	93.92
69 Chlorobenzene					CAS #: 108-90-7		
19.189	19.189 (1.002)	112	8181491	50.0000	50.436	80.00- 120.00	100.00(A)
19.189	19.189 (1.002)	114	2614664			0.00- 30.00	31.96
19.189	19.189 (1.002)	77	4838421			29.14- 89.14	59.14
70 Ethyl Benzene					CAS #: 100-41-4		
19.237	19.237 (1.005)	106	4356545	50.0000	51.862	80.00- 120.00	100.00(A)
19.237	19.237 (1.005)	91	13643255			0.00- 30.00	313.17
71 m,p-Xylene					CAS #: 108-38-3		
19.406	19.406 (1.014)	106	5571234	50.0000	52.169	80.00- 120.00	100.00(A)
19.406	19.406 (1.014)	91	11090466			0.00- 30.00	199.07
72 o-Xylene					CAS #: 95-47-6		
19.912	19.912 (1.040)	106	5347997	50.0000	52.934	80.00- 120.00	100.00(A)

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
72 o-Xylene (continued)							
19.912	19.912 (1.040)	91	11167395			0.00- 30.00	208.81
73 Styrene					CAS #: 100-42-5		
19.936	19.936 (1.042)	104	8785000	50.0000	55.824	80.00- 120.00	100.00(A)
19.936	19.936 (1.042)	78	4390657			0.00- 30.00	49.98
75 Bromoform					CAS #: 75-25-2		
20.249	20.249 (1.058)	173	5001893	50.0000	56.336	80.00- 120.00	100.00(A)
20.249	20.249 (1.058)	171	2584855			0.00- 30.00	51.68
76 Cumene					CAS #: 98-82-8		
20.345	20.345 (1.063)	105	16119398	50.0000	56.287	80.00- 120.00	100.00(A)
20.345	20.345 (1.063)	120	4307281			0.00- 30.00	26.72
79 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
20.780	20.780 (1.086)	83	8306252	50.0000	52.108	80.00- 120.00	100.00(A)
20.780	20.780 (1.086)	85	5329079			0.00- 30.00	64.16
80 Propylbenzene					CAS #: 103-65-1		
20.832	20.832 (1.088)	91	18255610	50.0000	53.972	80.00- 120.00	100.00(A)
20.832	20.832 (1.088)	120	4630672			0.00- 30.00	25.37
82 4-Ethyltoluene					CAS #: 622-96-8		
20.961	20.961 (1.095)	105	17785933	50.0000	57.927	80.00- 120.00	100.00(A)
20.961	20.961 (1.095)	120	5329180			0.00- 30.00	29.96
83 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
21.012	21.012 (1.098)	105	15225012	50.0000	54.929	80.00- 120.00	100.00(A)
21.012	21.012 (1.098)	120	7432661			0.00- 30.00	48.82
85 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
21.451	21.451 (1.121)	105	14879792	50.0000	56.413	80.00- 120.00	100.00(A)
21.451	21.451 (1.121)	120	6840002			0.00- 30.00	45.97
88 1,3-Dichlorobenzene					CAS #: 541-73-1		
21.838	21.838 (1.141)	146	9246353	50.0000	52.485	80.00- 120.00	100.00(A)
21.838	21.838 (1.141)	148	5828280			0.00- 30.00	63.03
21.838	21.838 (1.141)	111	4091510			0.00- 30.00	44.25
89 1,4-Dichlorobenzene					CAS #: 106-46-7		
21.941	21.941 (1.146)	146	9579030	50.0000	53.322	80.00- 120.00	100.00(A)
21.941	21.941 (1.146)	148	6008110			0.00- 30.00	62.72
21.941	21.941 (1.146)	111	4106056			0.00- 30.00	42.87
90 alpha-chlorotoluene					CAS #: 100-44-7		
22.095	22.095 (1.154)	91	15053502	50.0000	65.894	80.00- 120.00	100.00(A)

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
90 alpha-chlorotoluene (continued)							
22.095	22.095 (1.154)	126	3041714			0.00- 30.00	20.21
93 1,2-Dichlorobenzene					CAS #: 95-50-1		
22.379	22.379 (1.169)	146	8832022	50.0000	53.454	80.00- 120.00	100.00(A)
22.379	22.379 (1.169)	148	5608767			33.50- 93.50	63.50
22.379	22.379 (1.169)	111	4136407			16.83- 76.83	46.83
97 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
24.158	24.158 (1.262)	180	4408908	50.0000	50.375	80.00- 120.00	100.00(A)
24.158	24.158 (1.262)	182	4211009			0.00- 30.00	95.51
98 Hexachlorobutadiene					CAS #: 87-68-3		
24.236	24.236 (1.266)	225	3598619	50.0000	52.154	80.00- 120.00	100.00(A)
24.236	24.236 (1.266)	223	2268887			0.00- 30.00	63.05
99 Naphthalene					CAS #: 91-20-3		
24.468	24.468 (1.278)	128	9633770	50.0000	50.690	80.00- 120.00	100.00(A)
24.468	24.468 (1.278)	127	1212300			0.00- 30.00	12.58
179 Butane					CAS #: 106-97-8		
6.754	6.754 (0.495)	58	600477	50.0000	47.902	80.00- 120.00	100.00(A)
6.754	6.754 (0.495)	43	4228054			0.00- 30.00	704.12
11 Isopentane					CAS #: 78-78-4		
8.757	8.757 (0.642)	57	1567835	50.0000	47.518	80.00- 120.00	100.00(A)
8.757	8.757 (0.642)	43	1970861			0.00- 30.00	125.71
8.757	8.757 (0.642)	42	1692299			0.00- 30.00	107.94
167 Methylcyclohexane					CAS #: 108-87-2		
15.436	15.436 (1.132)	83	3920831	50.0000	51.484	80.00- 120.00	100.00(A)
15.436	15.436 (1.132)	98	1867385			0.00- 30.00	47.63
15.436	15.436 (1.132)	55	4542664			0.00- 30.00	115.86

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: msdz.i
Lab File ID: z052310.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: kr
Method File: /chem/msdz.i/23May2007.b/t14q523a.m
Misc Info: 200ppbv->50ppbv

Calibration Date: 23-MAY-2007
Calibration Time: 17:44
Client Smp ID: Level 13
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
39 Bromochloromethan	195288	117173	273403	195288	0.00
52 1,4-Difluorobenze	938681	563209	1314153	938681	0.00
68 Chlorobenzene-d5	1070387	642232	1498542	1070387	0.00

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
39 Bromochloromethan	13.64	13.31	13.97	13.64	0.00
52 1,4-Difluorobenze	14.89	14.56	15.22	14.89	0.00
68 Chlorobenzene-d5	19.14	18.81	19.47	19.14	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/msdz.i/23May2007.b/z052310.d

Date : 23-MAY-2007 17:44

Client ID: Level 13

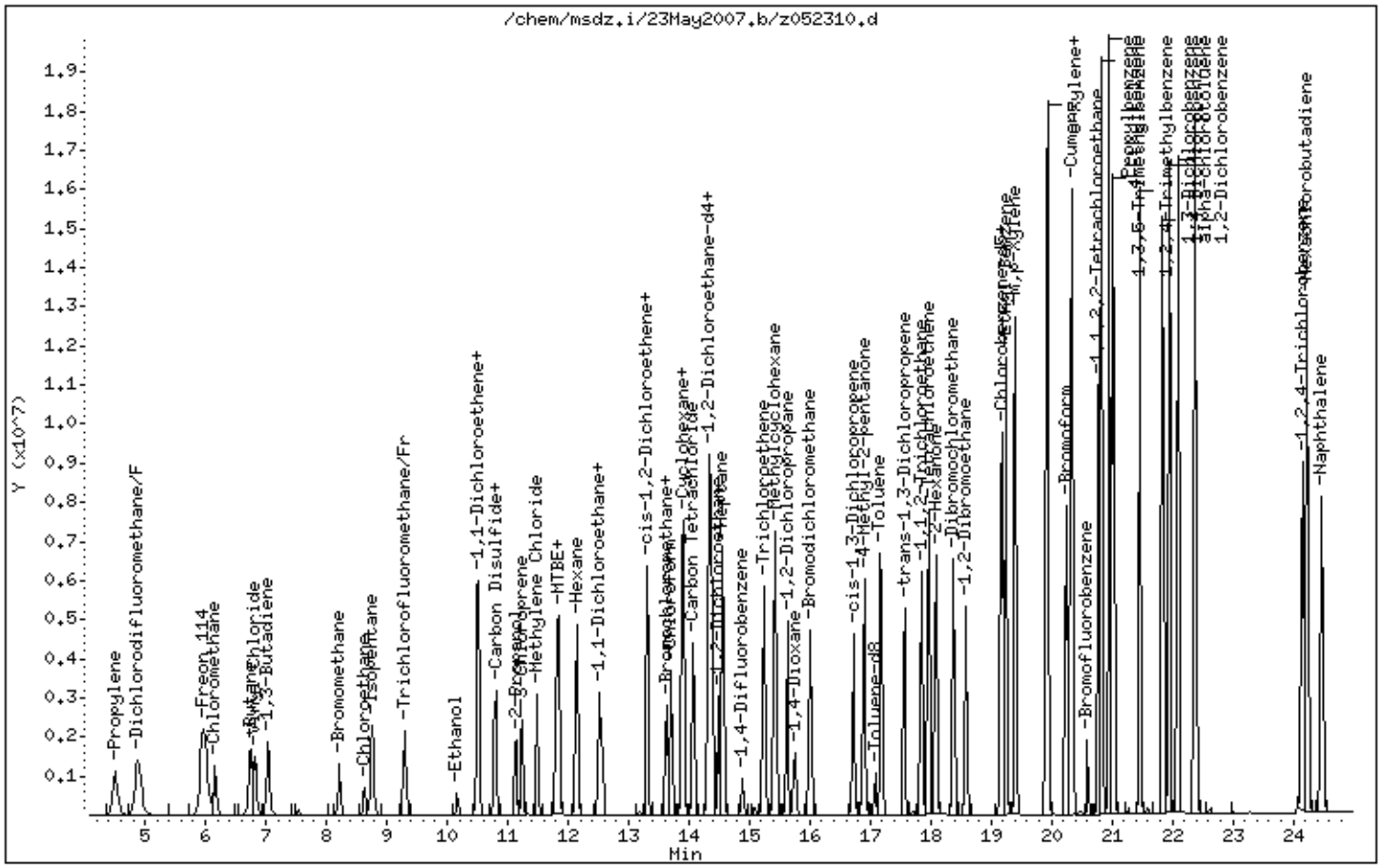
Instrument: msdz.i

Sample Info: 125mL #1487-264

Operator: kr

Column phase: RTx-624

Column diameter: 0.32



Air Toxics Ltd.

AMBIENT AIR METHOD TO14/TO15

Data file : /chem/msdz.i/23May2007.b/z052311.d
Lab Smp Id: ICAL Client Smp ID: Level 14
Inj Date : 23-MAY-2007 18:14
Operator : kr Inst ID: msdz.i
Smp Info : 250mL #1487-264
Misc Info : 200ppbv->100ppbv
Comment :
Method : /chem/msdz.i/23May2007.b/t14q523a.m
Meth Date : 24-May-2007 08:30 kreier Quant Type: ISTD
Cal Date : 23-MAY-2007 18:14 Cal File: z052311.d
Als bottle: 1 Calibration Sample, Level: 14
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT06+4MDL.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				AMOUNTS				
				CAL-AMT	ON-COL			
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE		RATIO
==	====== ========	====	========	=======	=======	==========		=====
* 39 Bromochloromethane						CAS #: 74-97-5		
13.636	13.636 (1.000)	130	187099	10.0000		70.00- 130.00		100.00
13.636	13.636 (1.000)	128	141491			0.00- 30.00		75.62
13.636	13.636 (1.000)	49	352174			0.00- 30.00		188.23
* 52 1,4-Difluorobenzene						CAS #: 540-36-3		
14.887	14.887 (1.000)	114	941309	10.0000		70.00- 130.00		100.00
14.887	14.887 (1.000)	88	157339			0.00- 30.00		16.71
* 68 Chlorobenzene-d5						CAS #: 3114-55-4		
19.141	19.141 (1.000)	117	1012499	10.0000		70.00- 130.00		100.00
19.141	19.141 (1.000)	82	591772			0.00- 30.00		58.45
$ 47 1,2-Dichloroethane-d4						CAS #: 17060-07-0		
14.393	14.393 (1.056)	65	391371	10.0000	10.851	70.00- 130.00		100.00
14.393	14.393 (1.056)	67	316472			0.00- 30.00		80.86
$ 59 Toluene-d8						CAS #: 2037-26-5		
17.083	17.083 (1.148)	98	937365	10.0000	9.922	70.00- 130.00		100.00
17.083	17.083 (1.148)	70	109321			0.00- 30.00		11.66

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
$ 59 Toluene-d8 (continued)							
17.083	17.083 (1.148)	100	628758			38.34- 98.34	67.08
$ 77 Bromofluorobenzene					CAS #: 460-00-4		
20.600	20.600 (1.076)	174	556741	10.0000	9.673	70.00- 130.00	100.00
20.600	20.600 (1.076)	95	860752			122.14- 182.14	154.61
20.600	20.600 (1.076)	176	544082			66.57- 126.57	97.73
1 Propylene					CAS #: 115-07-1		
4.497	4.497 (0.330)	41	4491124	100.000	97.627	70.00- 130.00	100.00(A)
4.497	4.497 (0.330)	42	3037573			0.00- 30.00	67.64
4.497	4.497 (0.330)	39	3168013			0.00- 30.00	70.54
3 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
4.883	4.883 (0.358)	85	11590199	100.000	96.855	70.00- 130.00	100.00(A)
4.883	4.883 (0.358)	87	3738256			2.11- 62.11	32.25
4 Freon 114					CAS #: 76-14-2		
5.967	5.967 (0.438)	135	7346834	100.000	94.871	70.00- 130.00	100.00(A)
5.967	5.967 (0.438)	137	2331766			0.00- 30.00	31.74
5 Chloromethane					CAS #: 74-87-3		
6.160	6.160 (0.452)	50	4964655	100.000	100.24	70.00- 130.00	100.00(A)
6.160	6.160 (0.452)	52	1605076			0.00- 30.00	32.33
6 Vinyl Chloride					CAS #: 75-01-4		
6.823	6.823 (0.500)	62	4899119	100.000	98.646	70.00- 130.00	100.00(A)
6.823	6.823 (0.500)	64	1461720			0.00- 59.95	29.84
7 1,3-Butadiene					CAS #: 106-99-0		
7.032	7.032 (0.516)	54	3592858	100.000	97.137	70.00- 130.00	100.00(A)
7.032	7.032 (0.516)	39	3166338			0.00- 30.00	88.13
9 Bromomethane					CAS #: 74-83-9		
8.218	8.218 (0.603)	94	2474184	100.000	98.678	70.00- 130.00	100.00(A)
8.218	8.218 (0.603)	96	2316042			64.41- 124.41	93.61
10 Chloroethane					CAS #: 75-00-3		
8.633	8.633 (0.633)	64	1908159	100.000	94.296	70.00- 130.00	100.00(A)
8.633	8.633 (0.633)	49	522093			0.00- 30.00	27.36
8.633	8.633 (0.633)	66	570432			0.00- 30.00	29.89
13 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
9.296	9.296 (0.682)	101	6066488	100.000	72.910	70.00- 130.00	100.00(A)
9.296	9.296 (0.682)	103	3944778			34.97- 94.97	65.03

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
14 Ethanol					CAS #: 64-17-5		
10.166	10.166 (0.746)	45	1639498	100.000	113.91	70.00- 130.00	100.00(A)
10.166	10.166 (0.746)	43	358972			0.00- 30.00	21.90
10.166	10.166 (0.746)	46	641986			0.00- 30.00	39.16
15 1,1-Dichloroethene					CAS #: 75-35-4		
10.498	10.498 (0.770)	98	1686138	100.000	96.427	70.00- 130.00	100.00(A)
10.498	10.498 (0.770)	61	5819082			0.00- 30.00	345.11
10.498	10.498 (0.770)	96	2659927			0.00- 30.00	157.75
17 Freon 113					CAS #: 76-13-1		
10.519	10.519 (0.771)	151	3607931	100.000	91.346	70.00- 130.00	100.00(A)
10.519	10.519 (0.771)	153	2288317			33.46- 93.46	63.42
10.519	10.519 (0.771)	101	4692797			0.00- 30.00	130.07
19 Carbon Disulfide					CAS #: 75-15-0		
10.809	10.809 (0.793)	76	9016042	100.000	99.452	70.00- 130.00	100.00(A)
20 Acetone					CAS #: 67-64-1		
10.767	10.767 (0.790)	58	2021281	100.000	97.207	70.00- 130.00	100.00(A)
10.767	10.767 (0.790)	43	6323927			0.00- 30.00	312.87
21 2-Propanol					CAS #: 67-63-0		
11.140	11.140 (0.817)	45	6997632	100.000	99.335	70.00- 130.00	100.00(A)
11.140	11.140 (0.817)	43	1355318			0.00- 30.00	19.37
11.140	11.140 (0.817)	59	290372			0.00- 30.00	4.15
22 3-Chloroprene					CAS #: 107-05-1		
11.251	11.251 (0.825)	76	1358504	100.000	102.89	70.00- 130.00	100.00(A)
11.251	11.251 (0.825)	41	4994229			0.00- 30.00	367.63
25 Methylene Chloride					CAS #: 75-09-2		
11.498	11.498 (0.843)	84	2531449	100.000	95.086	70.00- 130.00	100.00(A)
11.498	11.498 (0.843)	49	4373877			0.00- 30.00	172.78
11.498	11.498 (0.843)	51	1366085			0.00- 30.00	53.96
27 MTBE					CAS #: 1634-04-4		
11.827	11.827 (0.867)	73	8825257	100.000	100.91	70.00- 130.00	100.00(A)
11.827	11.827 (0.867)	57	2511311			0.00- 30.00	28.46
11.827	11.827 (0.867)	41	2295347			0.00- 30.00	26.01
28 trans-1,2-Dichloroethene					CAS #: 156-60-5		
11.855	11.855 (0.869)	98	1971938	100.000	95.750	70.00- 130.00	100.00(A)
11.855	11.855 (0.869)	61	5909330			0.00- 30.00	299.67
11.855	11.855 (0.869)	96	3122560			0.00- 30.00	158.35

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
30 Hexane					CAS #: 110-54-3		
12.157	12.157 (0.892)	57	6768201	100.000	100.70	70.00- 130.00	100.00(A)
12.157	12.157 (0.892)	43	3890485			0.00- 30.00	57.48
12.157	12.157 (0.892)	86	860836			0.00- 30.00	12.72
31 1,1-Dichloroethane					CAS #: 75-34-3		
12.513	12.513 (0.918)	63	7187334	100.000	98.724	70.00- 130.00	100.00(A)
12.513	12.513 (0.918)	65	2145716			0.00- 30.00	29.85
33 Vinyl Acetate					CAS #: 108-05-4		
12.541	12.541 (0.920)	43	7481409	100.000	113.62	70.00- 130.00	100.00(A)
12.541	12.541 (0.920)	42	633732			0.00- 30.00	8.47
12.568	12.568 (0.922)	86	567832			0.00- 30.00	7.59
36 cis-1,2-Dichloroethene					CAS #: 156-59-2		
13.305	13.305 (0.976)	98	2068109	100.000	97.710	70.00- 130.00	100.00(A)
13.305	13.305 (0.976)	61	5657408			0.00- 30.00	273.55
13.305	13.305 (0.976)	96	3236554			126.91- 186.91	156.50
37 2-Butanone					CAS #: 78-93-3		
13.326	13.326 (0.977)	72	1635150	100.000	105.38	70.00- 130.00	100.00(A)
13.326	13.326 (0.977)	43	7978631			0.00- 30.00	487.94
13.326	13.326 (0.977)	57	705944			0.00- 30.00	43.17
38 Tetrahydrofuran					CAS #: 109-99-9		
13.636	13.636 (1.000)	42	5174210	100.000	98.656	70.00- 130.00	100.00(A)
13.636	13.636 (1.000)	71	1623345			0.00- 30.00	31.37
13.636	13.636 (1.000)	72	1740113			0.00- 30.00	33.63
40 Chloroform					CAS #: 67-66-3		
13.697	13.697 (1.005)	83	7092585	100.000	97.216	70.00- 130.00	100.00(A)
13.697	13.697 (1.005)	85	4565323			0.00- 30.00	64.37
42 Cyclohexane					CAS #: 110-82-7		
13.882	13.882 (1.018)	84	4510646	100.000	94.829	70.00- 130.00	100.00(A)
13.882	13.882 (1.018)	56	6940937			0.00- 30.00	153.88
13.882	13.882 (1.018)	41	3360948			0.00- 30.00	74.51
43 1,1,1-Trichloroethane					CAS #: 71-55-6		
13.913	13.913 (1.020)	97	6967097	100.000	92.217	70.00- 130.00	100.00(A)
13.913	13.913 (1.020)	99	4459804			0.00- 30.00	64.01
44 Carbon Tetrachloride					CAS #: 56-23-5		
14.067	14.067 (1.032)	119	7574051	100.000	96.567	70.00- 130.00	100.00(A)
14.067	14.067 (1.032)	117	7858755			0.00- 30.00	103.76

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
46 Benzene					CAS #: 71-43-2		
14.365	14.365 (0.965)	78	10527667	100.000	89.538	70.00- 130.00	100.00(A)
14.365	14.365 (0.965)	77	2403591			0.00- 30.00	22.83
45 2,2,4-Trimethylpentane					CAS #: 540-84-1		
14.338	14.338 (1.051)	56	7557094	100.000	97.515	70.00- 130.00	100.00(A)
14.338	14.338 (1.051)	57	23693241			0.00- 30.00	313.52
14.338	14.338 (1.051)	41	5743382			0.00- 30.00	76.00
49 1,2-Dichloroethane					CAS #: 107-06-2		
14.475	14.475 (0.972)	62	6624463	100.000	96.222	70.00- 130.00	100.00(A)
14.475	14.475 (0.972)	64	2038339			0.00- 30.00	30.77
50 Heptane					CAS #: 142-82-5		
14.557	14.557 (0.978)	57	4774822	100.000	95.825	70.00- 130.00	100.00(A)
14.557	14.557 (0.978)	100	1242108			0.00- 30.00	26.01
14.557	14.557 (0.978)	43	8261033			0.00- 30.00	173.01
53 Trichloroethene					CAS #: 79-01-6		
15.244	15.244 (1.024)	130	5103402	100.000	91.764	70.00- 130.00	100.00(A)
15.244	15.244 (1.024)	95	4899726			0.00- 30.00	96.01
15.244	15.244 (1.024)	97	3148667			0.00- 30.00	61.70
54 1,2-Dichloropropane					CAS #: 78-87-5		
15.628	15.628 (1.050)	63	5201092	100.000	96.229	70.00- 130.00	100.00(A)
15.628	15.628 (1.050)	62	3782258			0.00- 30.00	72.72
15.628	15.628 (1.050)	41	3168383			32.45- 92.45	60.92
55 1,4-Dioxane					CAS #: 123-91-1		
15.765	15.765 (1.059)	88	3007762	100.000	99.718	70.00- 130.00	100.00(A)
15.765	15.765 (1.059)	58	2889829			0.00- 30.00	96.08
15.765	15.765 (1.059)	57	931622			0.00- 30.00	30.97
56 Bromodichloromethane					CAS #: 75-27-4		
16.012	16.012 (1.076)	83	8300822	100.000	98.420	70.00- 130.00	100.00(A)
16.012	16.012 (1.076)	85	5258059			0.00- 30.00	63.34
57 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
16.725	16.725 (1.123)	75	6780444	100.000	103.91	70.00- 130.00	100.00(A)
16.725	16.725 (1.123)	77	2136992			0.00- 30.00	31.52
16.725	16.725 (1.123)	39	4354155			34.80- 94.80	64.22
58 4-Methyl-2-pentanone					CAS #: 108-10-1		
16.904	16.904 (1.135)	43	11835235	100.000	103.40	70.00- 130.00	100.00(A)
16.904	16.904 (1.135)	58	5026846			0.00- 30.00	42.47
16.904	16.904 (1.135)	85	1692395			0.00- 30.00	14.30

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
60 Toluene					CAS #: 108-88-3		
17.173	17.173 (1.154)	91	14025222	100.000	93.693	70.00- 130.00	100.00(A)
17.173	17.173 (1.154)	92	8478160			0.00- 30.00	60.45
61 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
17.576	17.576 (0.918)	75	7695094	100.000	105.26	70.00- 130.00	100.00(A)
17.576	17.576 (0.918)	77	2418869			0.00- 30.00	31.43
17.576	17.576 (0.918)	39	4566589			30.67- 90.67	59.34
62 1,1,2-Trichloroethane					CAS #: 79-00-5		
17.847	17.847 (0.932)	97	5113815	100.000	97.026	70.00- 130.00	100.00(A)
17.847	17.847 (0.932)	99	3181939			0.00- 30.00	62.22
17.847	17.847 (0.932)	83	4217493			52.93- 112.93	82.47
63 Tetrachloroethene					CAS #: 127-18-4		
17.964	17.964 (0.938)	166	6233293	100.000	89.721	70.00- 130.00	100.00(A)
17.964	17.964 (0.938)	129	5079130			0.00- 30.00	81.48
17.964	17.964 (0.938)	131	4809390			46.71- 106.71	77.16
64 2-Hexanone					CAS #: 591-78-6		
18.110	18.110 (0.946)	58	8233220	100.000	105.85	70.00- 130.00	100.00(A)
18.110	18.110 (0.946)	43	14175557			0.00- 30.00	172.18
18.110	18.110 (0.946)	100	1300472			0.00- 30.00	15.80
66 Dibromochloromethane					CAS #: 124-48-1		
18.372	18.372 (0.960)	129	9124811	100.000	99.814	70.00- 130.00	100.00(A)
18.372	18.372 (0.960)	127	7080097			0.00- 30.00	77.59
67 1,2-Dibromoethane					CAS #: 106-93-4		
18.576	18.576 (0.970)	107	8440978	100.000	95.637	70.00- 130.00	100.00(A)
18.576	18.576 (0.970)	109	7880267			0.00- 30.00	93.36
69 Chlorobenzene					CAS #: 108-90-7		
19.189	19.189 (1.002)	112	14626545	100.000	95.324	70.00- 130.00	100.00(A)
19.189	19.189 (1.002)	114	4636178			0.00- 30.00	31.70
19.189	19.189 (1.002)	77	8631160			29.14- 89.14	59.01
70 Ethyl Benzene					CAS #: 100-41-4		
19.238	19.238 (1.005)	106	7636818	100.000	96.108	70.00- 130.00	100.00(A)
19.238	19.238 (1.005)	91	23849569			0.00- 30.00	312.30
71 m,p-Xylene					CAS #: 108-38-3		
19.406	19.406 (1.014)	106	9797067	100.000	96.984	70.00- 130.00	100.00(A)
19.406	19.406 (1.014)	91	19593813			0.00- 30.00	200.00
72 o-Xylene					CAS #: 95-47-6		
19.912	19.912 (1.040)	106	9052342	100.000	94.722	70.00- 130.00	100.00(A)

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
72 o-Xylene (continued)							
19.912	19.912 (1.040)	91	18330527			0.00- 30.00	202.49
73 Styrene					CAS #: 100-42-5		
19.936	19.936 (1.042)	104	14883600	100.000	99.985	70.00- 130.00	100.00(A)
19.936	19.936 (1.042)	78	7423092			0.00- 30.00	49.87
75 Bromoform					CAS #: 75-25-2		
20.249	20.249 (1.058)	173	8329325	100.000	99.177	70.00- 130.00	100.00(A)
20.249	20.249 (1.058)	171	4307988			0.00- 30.00	51.72
76 Cumene					CAS #: 98-82-8		
20.346	20.346 (1.063)	105	23962018	100.000	88.456	70.00- 130.00	100.00(A)
20.346	20.346 (1.063)	120	7409495			0.00- 30.00	30.92
79 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
20.781	20.781 (1.086)	83	14497971	100.000	96.152	70.00- 130.00	100.00(A)
20.781	20.781 (1.086)	85	9153450			0.00- 30.00	63.14
80 Propylbenzene					CAS #: 103-65-1		
20.832	20.832 (1.088)	91	22853516	100.000	71.429	70.00- 130.00	100.00(A)
20.832	20.832 (1.088)	120	7805574			0.00- 30.00	34.15
82 4-Ethyltoluene					CAS #: 622-96-8		
20.961	20.961 (1.095)	105	22234993	100.000	76.557	70.00- 130.00	100.00(A)
20.961	20.961 (1.095)	120	8851527			0.00- 30.00	39.81
83 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
21.013	21.013 (1.098)	105	25184356	100.000	96.055	70.00- 130.00	100.00(A)
21.013	21.013 (1.098)	120	12832620			0.00- 30.00	50.95
85 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
21.451	21.451 (1.121)	105	24707646	100.000	99.028	70.00- 130.00	100.00(A)
21.451	21.451 (1.121)	120	12197428			0.00- 30.00	49.37
88 1,3-Dichlorobenzene					CAS #: 541-73-1		
21.838	21.838 (1.141)	146	16483931	100.000	98.916	70.00- 130.00	100.00(A)
21.838	21.838 (1.141)	148	10395972			0.00- 30.00	63.07
21.838	21.838 (1.141)	111	7282484			0.00- 30.00	44.18
89 1,4-Dichlorobenzene					CAS #: 106-46-7		
21.941	21.941 (1.146)	146	16822947	100.000	99.000	70.00- 130.00	100.00(A)
21.941	21.941 (1.146)	148	10500013			0.00- 30.00	62.41
21.941	21.941 (1.146)	111	7127691			0.00- 30.00	42.37
90 alpha-chlorotoluene					CAS #: 100-44-7		
22.096	22.096 (1.154)	91	20331948	100.000	94.088	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 alpha-chlorotoluene (continued)							
22.096	22.096 (1.154)	126	5486516			0.00- 30.00	26.98
93 1,2-Dichlorobenzene					CAS #: 95-50-1		
22.379	22.379 (1.169)	146	15538813	100.000	99.422	70.00- 130.00	100.00(A)
22.379	22.379 (1.169)	148	9831410			33.50- 93.50	63.27
22.379	22.379 (1.169)	111	7156852			16.83- 76.83	46.06
97 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
24.158	24.158 (1.262)	180	8259188	100.000	99.762	70.00- 130.00	100.00(A)
24.158	24.158 (1.262)	182	7819502			0.00- 30.00	94.68
98 Hexachlorobutadiene					CAS #: 87-68-3		
24.236	24.236 (1.266)	225	5934538	100.000	90.925	70.00- 130.00	100.00(A)
24.236	24.236 (1.266)	223	3734455			0.00- 30.00	62.93
99 Naphthalene					CAS #: 91-20-3		
24.468	24.468 (1.278)	128	19281379	100.000	107.25	70.00- 130.00	100.00(A)
24.468	24.468 (1.278)	127	2398340			0.00- 30.00	12.44
179 Butane					CAS #: 106-97-8		
6.754	6.754 (0.495)	58	1151659	100.000	95.893	70.00- 130.00	100.00(A)
6.754	6.754 (0.495)	43	8022542			0.00- 30.00	696.61
11 Isopentane					CAS #: 78-78-4		
8.757	8.757 (0.642)	57	2948835	100.000	93.285	70.00- 130.00	100.00(A)
8.757	8.757 (0.642)	43	3698258			0.00- 30.00	125.41
8.757	8.757 (0.642)	42	3180633			0.00- 30.00	107.86
167 Methylcyclohexane					CAS #: 108-87-2		
15.436	15.436 (1.132)	83	7368101	100.000	100.98	70.00- 130.00	100.00(A)
15.436	15.436 (1.132)	98	3478434			0.00- 30.00	47.21
15.436	15.436 (1.132)	55	8273828			0.00- 30.00	112.29

QC Flag Legend

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

Report Date: 24-May-2007 08:30

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdz.i
Lab File ID: z052311.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: kr
Method File: /chem/msdz.i/23May2007.b/t14q523a.m
Misc Info: 200ppbv->100ppbv

Calibration Date: 23-MAY-2007
Calibration Time: 17:44
Client Smp ID: Level 14
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
39 Bromochloromethan	195288	117173	273403	187099	-4.19
52 1,4-Difluorobenze	938681	563209	1314153	941309	0.28
68 Chlorobenzene-d5	1070387	642232	1498542	1012499	-5.41

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
39 Bromochloromethan	13.64	13.31	13.97	13.64	0.00
52 1,4-Difluorobenze	14.89	14.56	15.22	14.89	0.00
68 Chlorobenzene-d5	19.14	18.81	19.47	19.14	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/msdz.i/23May2007.b/z052311.d

Date : 23-MAY-2007 18:14

Client ID: Level 14

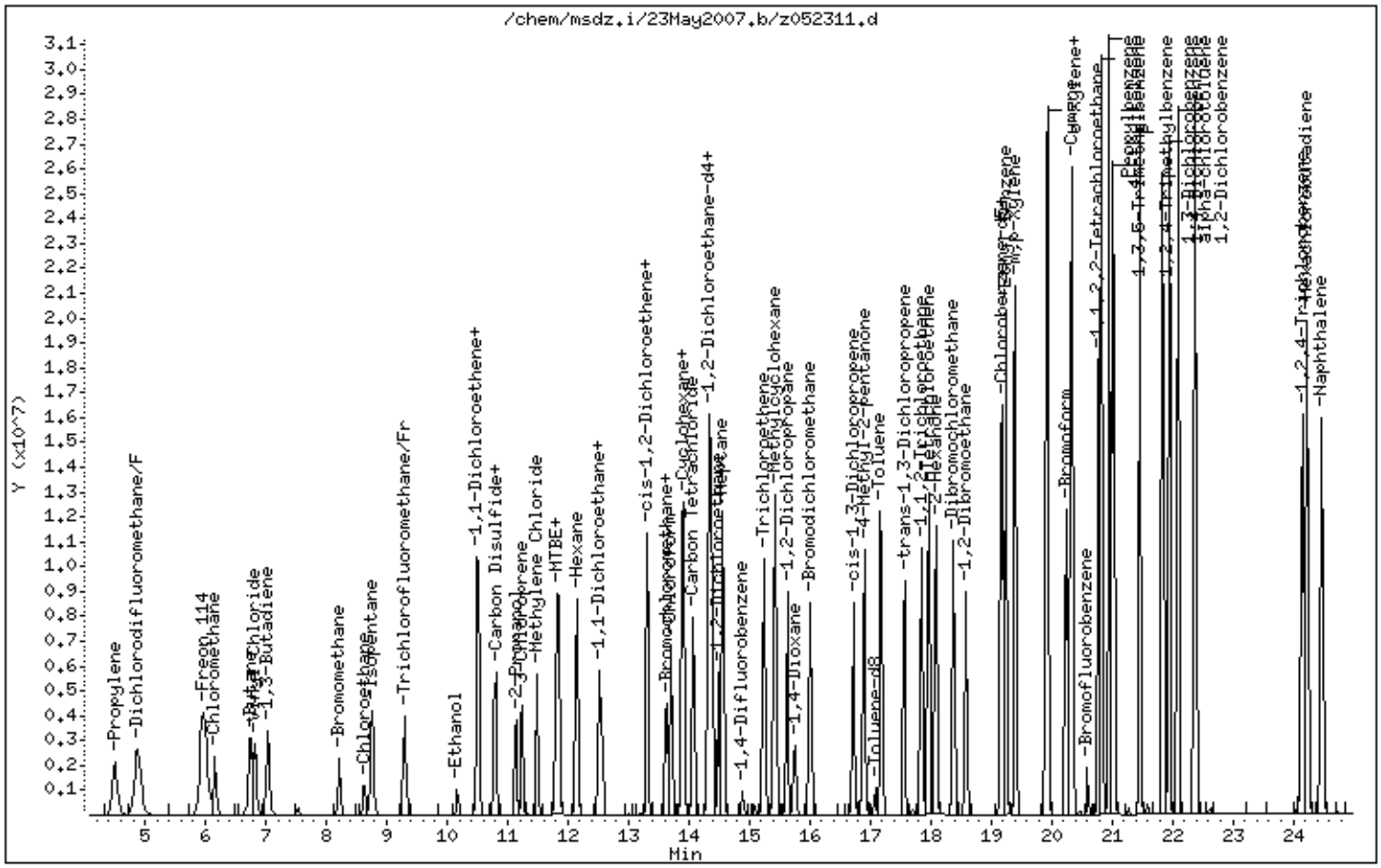
Instrument: msdz.i

Sample Info: 250mL #1487-264

Operator: kr

Column phase: RTx-624

Column diameter: 0.32



Air Toxics Ltd.

AMBIENT AIR METHOD TO14/TO15

Data file : /chem/msdz.i/23May2007.b/z052313.d
Lab Smp Id: ICAL Client Smp ID: Level 15
Inj Date : 23-MAY-2007 21:52
Operator : kr Inst ID: msdz.i
Smp Info : 500mL #1487-264
Misc Info : 200ppbv->200ppbv
Comment :
Method : /chem/msdz.i/23May2007.b/t14q523a.m
Meth Date : 24-May-2007 08:31 kreier Quant Type: ISTD
Cal Date : 23-MAY-2007 21:52 Cal File: z052313.d
Als bottle: 1 Calibration Sample, Level: 15
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT06+4MDL.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				AMOUNTS				
				CAL-AMT	ON-COL			
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE		RATIO
==	====== ========	====	========	=======	=======	==========		=====
* 39 Bromochloromethane						CAS #: 74-97-5		
13.636	13.636 (1.000)	130	190825	10.0000		70.00- 130.00		100.00
13.636	13.636 (1.000)	128	142584			0.00- 30.00		74.72
13.636	13.636 (1.000)	49	343609			0.00- 30.00		180.06
* 52 1,4-Difluorobenzene						CAS #: 540-36-3		
14.887	14.887 (1.000)	114	995965	10.0000		70.00- 130.00		100.00
14.887	14.887 (1.000)	88	160972			0.00- 30.00		16.16
* 68 Chlorobenzene-d5						CAS #: 3114-55-4		
19.141	19.141 (1.000)	117	1045333	10.0000		70.00- 130.00		100.00
19.141	19.141 (1.000)	82	587191			0.00- 30.00		56.17
$ 47 1,2-Dichloroethane-d4						CAS #: 17060-07-0		
14.393	14.393 (1.056)	65	377405	10.0000	10.260	70.00- 130.00		100.00
14.338	14.338 (1.051)	67	396424			0.00- 30.00		105.04
$ 59 Toluene-d8						CAS #: 2037-26-5		
17.083	17.083 (1.148)	98	988219	10.0000	9.887	70.00- 130.00		100.00
17.083	17.083 (1.148)	70	114556			0.00- 30.00		11.59

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
$ 59 Toluene-d8 (continued)							
17.083	17.083 (1.148)	100	672892			38.34- 98.34	68.09
$ 77 Bromofluorobenzene					CAS #: 460-00-4		
20.600	20.600 (1.076)	174	593511	10.0000	9.988	70.00- 130.00	100.00
20.600	20.600 (1.076)	95	866997			122.14- 182.14	146.08
20.600	20.600 (1.076)	176	577474			66.57- 126.57	97.30
1 Propylene					CAS #: 115-07-1		
4.497	4.497 (0.330)	41	8270924	200.000	176.28	70.00- 130.00	100.00(A)
4.497	4.497 (0.330)	42	5592353			0.00- 30.00	67.61
4.497	4.497 (0.330)	39	5788589			0.00- 30.00	69.99
3 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
4.883	4.883 (0.358)	85	22984981	200.000	188.32	70.00- 130.00	100.00(A)
4.883	4.883 (0.358)	87	7407559			2.11- 62.11	32.23
4 Freon 114					CAS #: 76-14-2		
5.967	5.967 (0.438)	135	15333313	200.000	194.14	70.00- 130.00	100.00(A)
5.967	5.967 (0.438)	137	4864891			0.00- 30.00	31.73
5 Chloromethane					CAS #: 74-87-3		
6.160	6.160 (0.452)	50	9221208	200.000	182.55	70.00- 130.00	100.00(A)
6.160	6.160 (0.452)	52	3026216			0.00- 30.00	32.82
6 Vinyl Chloride					CAS #: 75-01-4		
6.823	6.823 (0.500)	62	9455578	200.000	186.67	70.00- 130.00	100.00(A)
6.823	6.823 (0.500)	64	2821586			0.00- 59.95	29.84
7 1,3-Butadiene					CAS #: 106-99-0		
7.032	7.032 (0.516)	54	6814029	200.000	180.63	70.00- 130.00	100.00(A)
7.032	7.032 (0.516)	39	5804421			0.00- 30.00	85.18
9 Bromomethane					CAS #: 74-83-9		
8.218	8.218 (0.603)	94	4727821	200.000	184.88	70.00- 130.00	100.00(A)
8.218	8.218 (0.603)	96	4459033			64.41- 124.41	94.31
10 Chloroethane					CAS #: 75-00-3		
8.633	8.633 (0.633)	64	3624159	200.000	175.60	70.00- 130.00	100.00(A)
8.612	8.612 (0.632)	49	943514			0.00- 30.00	26.03
8.633	8.633 (0.633)	66	1106428			0.00- 30.00	30.53
13 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
9.296	9.296 (0.682)	101	11721786	200.000	138.13	70.00- 130.00	100.00(A)
9.296	9.296 (0.682)	103	7517294			34.97- 94.97	64.13

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
14 Ethanol					CAS #: 64-17-5		
10.187	10.187 (0.747)	45	3050931	200.000	207.83	70.00- 130.00	100.00(A)
10.187	10.187 (0.747)	43	629332			0.00- 30.00	20.63
10.187	10.187 (0.747)	46	1201445			0.00- 30.00	39.38
15 1,1-Dichloroethene					CAS #: 75-35-4		
10.498	10.498 (0.770)	98	3073539	200.000	172.34	70.00- 130.00	100.00(A)
10.498	10.498 (0.770)	61	9790931			0.00- 30.00	318.56
10.498	10.498 (0.770)	96	4825710			0.00- 30.00	157.01
17 Freon 113					CAS #: 76-13-1		
10.519	10.519 (0.771)	151	6829637	200.000	169.54	70.00- 130.00	100.00(A)
10.519	10.519 (0.771)	153	4366867			33.46- 93.46	63.94
10.519	10.519 (0.771)	101	8544115			0.00- 30.00	125.10
19 Carbon Disulfide					CAS #: 75-15-0		
10.809	10.809 (0.793)	76	17416691	200.000	188.36	70.00- 130.00	100.00(A)
20 Acetone					CAS #: 67-64-1		
10.767	10.767 (0.790)	58	3737357	200.000	176.23	70.00- 130.00	100.00(A)
10.767	10.767 (0.790)	43	11112072			0.00- 30.00	297.32
21 2-Propanol					CAS #: 67-63-0		
11.140	11.140 (0.817)	45	12883055	200.000	179.31	70.00- 130.00	100.00(A)
11.140	11.140 (0.817)	43	2436207			0.00- 30.00	18.91
11.140	11.140 (0.817)	59	565005			0.00- 30.00	4.39
22 3-Chloroprene					CAS #: 107-05-1		
11.251	11.251 (0.825)	76	2727270	200.000	202.52	70.00- 130.00	100.00(A)
11.251	11.251 (0.825)	41	8740009			0.00- 30.00	320.47
25 Methylene Chloride					CAS #: 75-09-2		
11.498	11.498 (0.843)	84	5039984	200.000	185.62	70.00- 130.00	100.00(A)
11.498	11.498 (0.843)	49	7684304			0.00- 30.00	152.47
11.498	11.498 (0.843)	51	2424270			0.00- 30.00	48.10
27 MTBE					CAS #: 1634-04-4		
11.827	11.827 (0.867)	73	15616302	200.000	175.08	70.00- 130.00	100.00(A)
11.827	11.827 (0.867)	57	4226590			0.00- 30.00	27.07
11.827	11.827 (0.867)	41	3626920			0.00- 30.00	23.23
28 trans-1,2-Dichloroethene					CAS #: 156-60-5		
11.855	11.855 (0.869)	98	3642170	200.000	173.40	70.00- 130.00	100.00(A)
11.855	11.855 (0.869)	61	10121856			0.00- 30.00	277.91
11.855	11.855 (0.869)	96	5718594			0.00- 30.00	157.01

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
30 Hexane					CAS #: 110-54-3		
12.157	12.157 (0.892)	57	12100049	200.000	176.51	70.00- 130.00	100.00(A)
12.157	12.157 (0.892)	43	6479799			0.00- 30.00	53.55
12.157	12.157 (0.892)	86	1636501			0.00- 30.00	13.52
31 1,1-Dichloroethane					CAS #: 75-34-3		
12.513	12.513 (0.918)	63	13276725	200.000	178.81	70.00- 130.00	100.00(A)
12.513	12.513 (0.918)	65	3989767			0.00- 30.00	30.05
33 Vinyl Acetate					CAS #: 108-05-4		
12.568	12.568 (0.922)	43	14365043	200.000	213.89	70.00- 130.00	100.00(A)
12.541	12.541 (0.920)	42	1209960			0.00- 30.00	8.42
12.568	12.568 (0.922)	86	1231232			0.00- 30.00	8.57
36 cis-1,2-Dichloroethene					CAS #: 156-59-2		
13.305	13.305 (0.976)	98	3843510	200.000	178.04	70.00- 130.00	100.00(A)
13.305	13.305 (0.976)	61	9852220			0.00- 30.00	256.33
13.305	13.305 (0.976)	96	6074320			126.91- 186.91	158.04
37 2-Butanone					CAS #: 78-93-3		
13.326	13.326 (0.977)	72	3027579	200.000	191.32	70.00- 130.00	100.00(A)
13.326	13.326 (0.977)	43	12803465			0.00- 30.00	422.89
13.326	13.326 (0.977)	57	1200225			0.00- 30.00	39.64
38 Tetrahydrofuran					CAS #: 109-99-9		
13.605	13.605 (0.998)	42	8993081	200.000	168.12	70.00- 130.00	100.00(A)
13.636	13.636 (1.000)	71	3194542			0.00- 30.00	35.52
13.636	13.636 (1.000)	72	3412698			0.00- 30.00	37.95
40 Chloroform					CAS #: 67-66-3		
13.697	13.697 (1.005)	83	13087738	200.000	175.89	70.00- 130.00	100.00(A)
13.697	13.697 (1.005)	85	8323641			0.00- 30.00	63.60
42 Cyclohexane					CAS #: 110-82-7		
13.882	13.882 (1.018)	84	7752256	200.000	159.80	70.00- 130.00	100.00(A)
13.882	13.882 (1.018)	56	10688255			0.00- 30.00	137.87
13.882	13.882 (1.018)	41	4969608			0.00- 30.00	64.11
43 1,1,1-Trichloroethane					CAS #: 71-55-6		
13.913	13.913 (1.020)	97	11621720	200.000	150.82	70.00- 130.00	100.00(A)
13.913	13.913 (1.020)	99	7400749			0.00- 30.00	63.68
44 Carbon Tetrachloride					CAS #: 56-23-5		
14.067	14.067 (1.032)	119	13488892	200.000	168.62	70.00- 130.00	100.00(A)
14.067	14.067 (1.032)	117	14118915			0.00- 30.00	104.67

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
46 Benzene					CAS #: 71-43-2		
14.365	14.365 (0.965)	78	18988751	200.000	152.64	70.00- 130.00	100.00(A)
14.365	14.365 (0.965)	77	4285736			0.00- 30.00	22.57
45 2,2,4-Trimethylpentane					CAS #: 540-84-1		
14.338	14.338 (1.051)	56	11973942	200.000	151.49	70.00- 130.00	100.00(A)
14.338	14.338 (1.051)	57	31929249			0.00- 30.00	266.66
14.338	14.338 (1.051)	41	8729427			0.00- 30.00	72.90
49 1,2-Dichloroethane					CAS #: 107-06-2		
14.475	14.475 (0.972)	62	11792677	200.000	161.89	70.00- 130.00	100.00(A)
14.475	14.475 (0.972)	64	3629667			0.00- 30.00	30.78
50 Heptane					CAS #: 142-82-5		
14.557	14.557 (0.978)	57	7944734	200.000	150.69	70.00- 130.00	100.00(A)
14.557	14.557 (0.978)	100	2272504			0.00- 30.00	28.60
14.557	14.557 (0.978)	43	12675759			0.00- 30.00	159.55
53 Trichloroethene					CAS #: 79-01-6		
15.244	15.244 (1.024)	130	9328609	200.000	158.53	70.00- 130.00	100.00(A)
15.244	15.244 (1.024)	95	8859455			0.00- 30.00	94.97
15.244	15.244 (1.024)	97	5676138			0.00- 30.00	60.85
54 1,2-Dichloropropane					CAS #: 78-87-5		
15.628	15.628 (1.050)	63	9361843	200.000	163.70	70.00- 130.00	100.00(A)
15.628	15.628 (1.050)	62	6806209			0.00- 30.00	72.70
15.628	15.628 (1.050)	41	5187809			32.45- 92.45	55.41
55 1,4-Dioxane					CAS #: 123-91-1		
15.765	15.765 (1.059)	88	5855070	200.000	183.46	70.00- 130.00	100.00(A)
15.765	15.765 (1.059)	58	5243053			0.00- 30.00	89.55
15.765	15.765 (1.059)	57	1663797			0.00- 30.00	28.42
56 Bromodichloromethane					CAS #: 75-27-4		
16.012	16.012 (1.076)	83	14990684	200.000	167.98	70.00- 130.00	100.00(A)
16.012	16.012 (1.076)	85	9408762			0.00- 30.00	62.76
57 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
16.725	16.725 (1.123)	75	12732140	200.000	184.42	70.00- 130.00	100.00(A)
16.725	16.725 (1.123)	77	3987510			0.00- 30.00	31.32
16.725	16.725 (1.123)	39	7250676			34.80- 94.80	56.95
58 4-Methyl-2-pentanone					CAS #: 108-10-1		
16.904	16.904 (1.135)	43	18986751	200.000	156.78	70.00- 130.00	100.00(A)
16.904	16.904 (1.135)	58	8690157			0.00- 30.00	45.77
16.904	16.904 (1.135)	85	3211726			0.00- 30.00	16.92

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
60 Toluene					CAS #: 108-88-3		
17.173	17.173 (1.154)	91	25936326	200.000	163.75	70.00- 130.00	100.00(A)
17.173	17.173 (1.154)	92	15633604			0.00- 30.00	60.28
61 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
17.576	17.576 (0.918)	75	14060384	200.000	186.30	70.00- 130.00	100.00(A)
17.576	17.576 (0.918)	77	4380631			0.00- 30.00	31.16
17.576	17.576 (0.918)	39	7404715			30.67- 90.67	52.66
62 1,1,2-Trichloroethane					CAS #: 79-00-5		
17.847	17.847 (0.932)	97	9167101	200.000	168.47	70.00- 130.00	100.00(A)
17.847	17.847 (0.932)	99	5690506			0.00- 30.00	62.08
17.847	17.847 (0.932)	83	7483764			52.93- 112.93	81.64
63 Tetrachloroethene					CAS #: 127-18-4		
17.964	17.964 (0.938)	166	10550330	200.000	147.09	70.00- 130.00	100.00(A)
17.964	17.964 (0.938)	129	8375632			0.00- 30.00	79.39
17.964	17.964 (0.938)	131	7960722			46.71- 106.71	75.45
64 2-Hexanone					CAS #: 591-78-6		
18.110	18.110 (0.946)	58	13722286	200.000	170.87	70.00- 130.00	100.00(A)
18.110	18.110 (0.946)	43	21441134			0.00- 30.00	156.25
18.110	18.110 (0.946)	100	2405115			0.00- 30.00	17.53
66 Dibromochloromethane					CAS #: 124-48-1		
18.372	18.372 (0.960)	129	15609383	200.000	165.38	70.00- 130.00	100.00(A)
18.372	18.372 (0.960)	127	12026415			0.00- 30.00	77.05
67 1,2-Dibromoethane					CAS #: 106-93-4		
18.576	18.576 (0.970)	107	14259708	200.000	156.49	70.00- 130.00	100.00(A)
18.576	18.576 (0.970)	109	13269845			0.00- 30.00	93.06
69 Chlorobenzene					CAS #: 108-90-7		
19.189	19.189 (1.002)	112	24418016	200.000	154.14	70.00- 130.00	100.00(A)
19.189	19.189 (1.002)	114	8101807			0.00- 30.00	33.18
19.189	19.189 (1.002)	77	14597585			29.14- 89.14	59.78
70 Ethyl Benzene					CAS #: 100-41-4		
19.238	19.238 (1.005)	106	12659980	200.000	154.32	70.00- 130.00	100.00(A)
19.238	19.238 (1.005)	91	26587332			0.00- 30.00	210.01
71 m,p-Xylene					CAS #: 108-38-3		
19.406	19.406 (1.014)	106	16039025	200.000	153.79	70.00- 130.00	100.00(A)
19.382	19.382 (1.013)	91	26742989			0.00- 30.00	166.74
72 o-Xylene					CAS #: 95-47-6		
19.912	19.912 (1.040)	106	13849306	200.000	140.36	70.00- 130.00	100.00(A)

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
72 o-Xylene (continued)							
19.912	19.912 (1.040)	91	21896560			0.00- 30.00	158.11
73 Styrene					CAS #: 100-42-5		
19.936	19.936 (1.042)	104	22747602	200.000	148.01	70.00- 130.00	100.00(A)
19.936	19.936 (1.042)	78	11028631			0.00- 30.00	48.48
75 Bromoform					CAS #: 75-25-2		
20.249	20.249 (1.058)	173	12983323	200.000	149.74	70.00- 130.00	100.00(A)
20.249	20.249 (1.058)	171	6749120			0.00- 30.00	51.98
76 Cumene					CAS #: 98-82-8		
20.322	20.322 (1.062)	105	27702355	200.000	99.051	70.00- 130.00	100.00(A)
20.346	20.346 (1.063)	120	11600672			0.00- 30.00	41.88
79 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
20.781	20.781 (1.086)	83	22650818	200.000	145.50	70.00- 130.00	100.00(A)
20.781	20.781 (1.086)	85	14356481			0.00- 30.00	63.38
80 Propylbenzene					CAS #: 103-65-1		
20.832	20.832 (1.088)	91	29573553	200.000	89.529	70.00- 130.00	100.00(A)
20.832	20.832 (1.088)	120	11335023			0.00- 30.00	38.33
82 4-Ethyltoluene					CAS #: 622-96-8		
20.961	20.961 (1.095)	105	29002743	200.000	96.722	70.00- 130.00	100.00(A)
20.961	20.961 (1.095)	120	12578817			0.00- 30.00	43.37
83 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
21.013	21.013 (1.098)	105	30062456	200.000	111.06	70.00- 130.00	100.00(A)
21.013	21.013 (1.098)	120	19983237			0.00- 30.00	66.47
85 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
21.451	21.451 (1.121)	105	26924674	200.000	104.52	70.00- 130.00	100.00(A)
21.451	21.451 (1.121)	120	19782890			0.00- 30.00	73.47
88 1,3-Dichlorobenzene					CAS #: 541-73-1		
21.838	21.838 (1.141)	146	26400186	200.000	153.44	70.00- 130.00	100.00(A)
21.838	21.838 (1.141)	148	17397784			0.00- 30.00	65.90
21.838	21.838 (1.141)	111	11805837			0.00- 30.00	44.72
89 1,4-Dichlorobenzene					CAS #: 106-46-7		
21.941	21.941 (1.146)	146	25875064	200.000	147.49	70.00- 130.00	100.00(A)
21.941	21.941 (1.146)	148	17250690			0.00- 30.00	66.67
21.941	21.941 (1.146)	111	11080028			0.00- 30.00	42.82
90 alpha-chlorotoluene					CAS #: 100-44-7		
22.096	22.096 (1.154)	91	27153471	200.000	121.71	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 alpha-chlorotoluene (continued)							
22.096	22.096 (1.154)	126	9139365			0.00- 30.00	33.66
93 1,2-Dichlorobenzene					CAS #: 95-50-1		
22.379	22.379 (1.169)	146	22724465	200.000	140.83	70.00- 130.00	100.00(A)
22.379	22.379 (1.169)	148	16014414			33.50- 93.50	70.47
22.379	22.379 (1.169)	111	11137828			16.83- 76.83	49.01
97 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
24.158	24.158 (1.262)	180	13492931	200.000	157.86	70.00- 130.00	100.00(A)
24.158	24.158 (1.262)	182	12734954			0.00- 30.00	94.38
98 Hexachlorobutadiene					CAS #: 87-68-3		
24.236	24.236 (1.266)	225	8777782	200.000	130.26	70.00- 130.00	100.00(A)
24.236	24.236 (1.266)	223	5497961			0.00- 30.00	62.63
99 Naphthalene					CAS #: 91-20-3		
24.468	24.468 (1.278)	128	27737715	200.000	149.45	70.00- 130.00	100.00(A)
24.468	24.468 (1.278)	127	4122849			0.00- 30.00	14.86
179 Butane					CAS #: 106-97-8		
6.754	6.754 (0.495)	58	2152974	200.000	175.77	70.00- 130.00	100.00(A)
6.754	6.754 (0.495)	43	14265374			0.00- 30.00	662.59
11 Isopentane					CAS #: 78-78-4		
8.757	8.757 (0.642)	57	5559127	200.000	172.43	70.00- 130.00	100.00(A)
8.757	8.757 (0.642)	43	6720864			0.00- 30.00	120.90
8.757	8.757 (0.642)	42	5739037			0.00- 30.00	103.24
167 Methylcyclohexane					CAS #: 108-87-2		
15.436	15.436 (1.132)	83	13557657	200.000	182.19	70.00- 130.00	100.00(A)
15.436	15.436 (1.132)	98	6383933			0.00- 30.00	47.09
15.436	15.436 (1.132)	55	13779907			0.00- 30.00	101.64

QC Flag Legend

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

Report Date: 24-May-2007 08:31

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdz.i
Lab File ID: z052313.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: kr
Method File: /chem/msdz.i/23May2007.b/t14q523a.m
Misc Info: 200ppbv->200ppbv

Calibration Date: 23-MAY-2007
Calibration Time: 17:44
Client Smp ID: Level 15
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
39 Bromochloromethan	195288	117173	273403	190825	-2.29
52 1,4-Difluorobenze	938681	563209	1314153	995965	6.10
68 Chlorobenzene-d5	1070387	642232	1498542	1045333	-2.34

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
39 Bromochloromethan	13.64	13.31	13.97	13.64	0.00
52 1,4-Difluorobenze	14.89	14.56	15.22	14.89	0.00
68 Chlorobenzene-d5	19.14	18.81	19.47	19.14	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/msdz.i/23May2007.b/z052313.d

Date : 23-MAY-2007 21:52

Client ID: Level 15

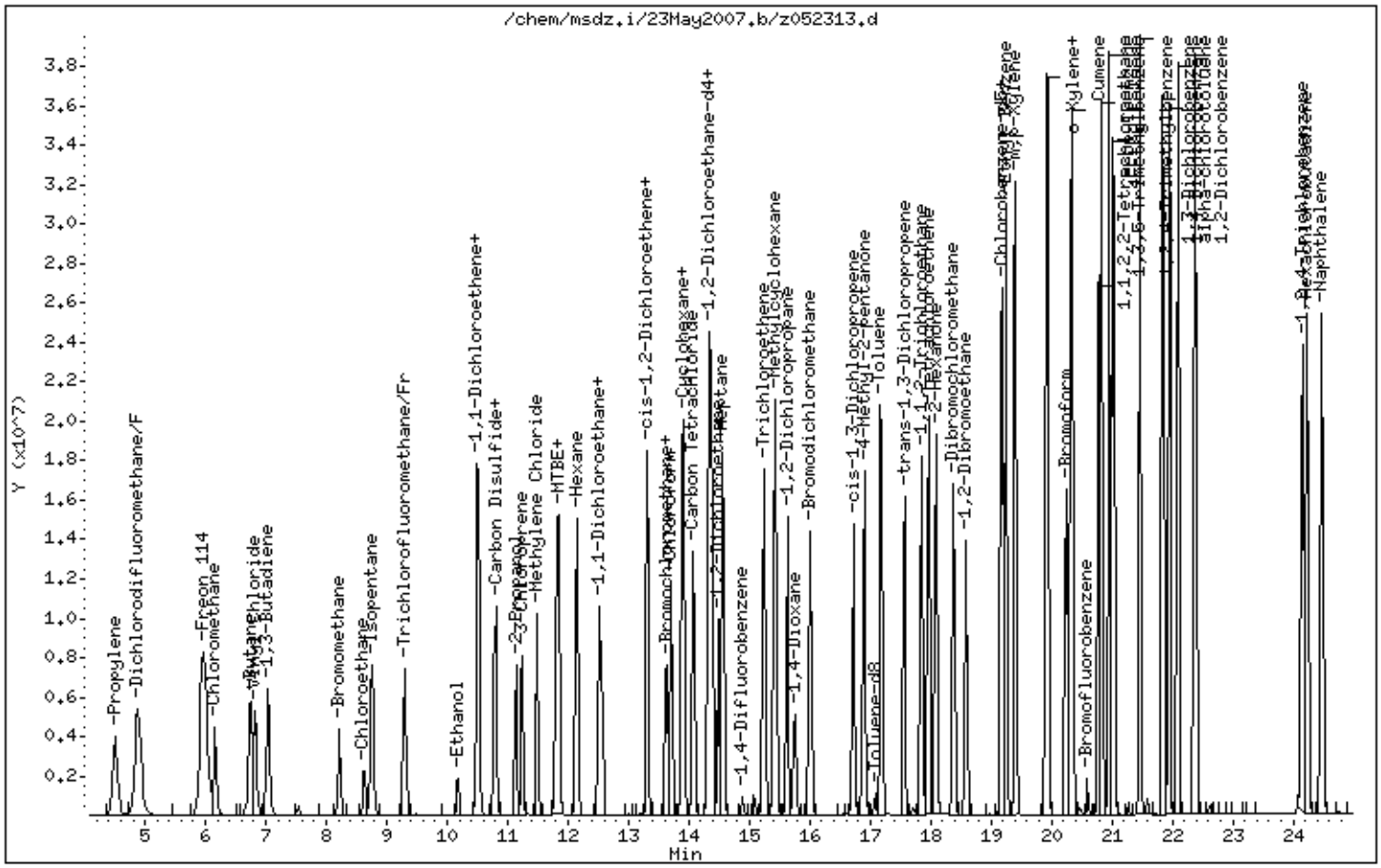
Instrument: msdz.i

Sample Info: 500mL #1487-264

Operator: kr

Column phase: RTx-624

Column diameter: 0.32



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: CCV

Lab ID#: 0705332-04A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**z052403**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 5/24/07 10:28 AM**	

Compound	%Recovery
Freon 12	92
Freon 114	95
Vinyl Chloride	98
Bromomethane	97
Chloroethane	92
Freon 11	69 Q
1,1-Dichloroethene	102
Freon 113	94
Methylene Chloride	97
1,1-Dichloroethane	101
cis-1,2-Dichloroethene	101
Chloroform	96
1,1,1-Trichloroethane	94
Carbon Tetrachloride	95
Benzene	94
1,2-Dichloroethane	95
Trichloroethene	95
1,2-Dichloropropane	99
cis-1,3-Dichloropropene	106
Toluene	96
trans-1,3-Dichloropropene	106
1,1,2-Trichloroethane	100
Tetrachloroethene	95
1,2-Dibromoethane (EDB)	100
Chlorobenzene	97
Ethyl Benzene	99
m,p-Xylene	101
o-Xylene	101
Styrene	107
1,1,2,2-Tetrachloroethane	99
1,3,5-Trimethylbenzene	101
1,2,4-Trimethylbenzene	104
1,3-Dichlorobenzene	102
1,4-Dichlorobenzene	103
alpha-Chlorotoluene	124
1,2-Dichlorobenzene	103
1,3-Butadiene	93
Hexane	104
Cyclohexane	100

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: CCV

Lab ID#: 0705332-04A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**z052403**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 5/24/07 10:28 AM**	

Compound	**%Recovery**
Heptane	99
Bromodichloromethane	100
Dibromochloromethane	105
Cumene	103
Propylbenzene	107
Chloromethane	93
1,2,4-Trichlorobenzene	111
Hexachlorobutadiene	104
Acetone	94
Carbon Disulfide	102
2-Propanol	116
trans-1,2-Dichloroethene	100
2-Butanone (Methyl Ethyl Ketone)	113
Tetrahydrofuran	97
1,4-Dioxane	106
4-Methyl-2-pentanone	105
2-Hexanone	114
Bromoform	108
4-Ethyltoluene	106
Ethanol	117
Methyl tert-butyl ether	103
3-Chloropropene	109
2,2,4-Trimethylpentane	100
Naphthalene	116

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
Toluene-d8	100	70-130
1,2-Dichloroethane-d4	102	70-130
4-Bromofluorobenzene	99	70-130

Air Toxics Ltd.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msdz.i Injection Date: 24-MAY-2007 10:28
Lab File ID: z052403.d Init. Cal. Date(s): 23-MAY-2007 23-MAY-2007
Analysis Type: AIR Init. Cal. Times: 15:51 21:52
Lab Sample ID: CCV-1 Quant Type: ISTD
Method: /chem/msdz.i/24May2007.b/t14q523a.m

COMPOUND	RRF / AMOUNT	RF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	
$ 47 1,2-Dichloroethane-d4	1.91768	1.95490	0.010	-1.94070	30.00000	Averaged	
$ 59 Toluene-d8	1.00585	1.00613	0.010	-0.02783	30.00000	Averaged	
$ 77 Bromofluorobenzene	0.56859	0.56128	0.010	1.28551	30.00000	Averaged	
1 Propylene	2.51707	2.33115	0.010	7.38612	40.00000	Averaged	
3 Dichlorodifluoromethane/Fr1	6.47052	5.99140	0.010	7.40475	30.00000	Averaged	
4 Freon 114	4.16325	3.97151	0.010	4.60544	30.00000	Averaged	
5 Chloromethane	2.81027	2.62576	0.010	6.56534	30.00000	Averaged	
6 Vinyl Chloride	2.68978	2.62363	0.010	2.45918	30.00000	Averaged	
7 1,3-Butadiene	2.01520	1.87530	0.010	6.94205	30.00000	Averaged	
9 Bromomethane	1.36038	1.32361	0.010	2.70314	30.00000	Averaged	
10 Chloroethane	1.10794	1.02310	0.010	7.65783	30.00000	Averaged	
13 Trichlorofluoromethane/Fr11	4.72223	3.24171	0.010	31.35221	30.00000	Averaged	<-
14 Ethanol	0.74688	0.87218	0.010	-16.77732	30.00000	Averaged	
15 1,1-Dichloroethene	0.96045	0.97801	0.010	-1.82821	30.00000	Averaged	
17 Freon 113	2.17537	2.03850	0.010	6.29147	30.00000	Averaged	
19 Carbon Disulfide	4.90176	4.99053	0.010	-1.81090	30.00000	Averaged	
20 Acetone	1.17361	1.10678	0.010	5.69468	30.00000	Averaged	
21 2-Propanol	3.94615	4.59871	0.010	-16.53678	30.00000	Averaged	
22 3-Chloroprene	0.68495	0.74564	0.010	-8.86033	40.00000	Averaged	
25 Methylene Chloride	1.44339	1.39957	0.010	3.03579	30.00000	Averaged	
27 MTBE	4.79081	4.94897	0.010	-3.30145	30.00000	Averaged	
28 trans-1,2-Dichloroethene	1.13001	1.12762	0.010	0.21189	30.00000	Averaged	
30 Hexane	3.67686	3.80922	0.010	-3.59970	30.00000	Averaged	
31 1,1-Dichloroethane	3.97357	4.00746	0.010	-0.85295	30.00000	Averaged	
33 Vinyl Acetate	3.27308	3.89894	0.010	-19.12147	40.00000	Averaged	
36 cis-1,2-Dichloroethene	1.15610	1.17243	0.010	-1.41203	30.00000	Averaged	
37 2-Butanone	0.83649	0.94730	0.010	-13.24685	30.00000	Averaged	
38 Tetrahydrofuran	2.89254	2.81313	0.010	2.74531	30.00000	Averaged	
40 Chloroform	3.99341	3.83646	0.010	3.93021	30.00000	Averaged	
42 Cyclohexane	2.64450	2.65949	0.010	-0.56672	30.00000	Averaged	
43 1,1,1-Trichloroethane	4.23662	3.99569	0.010	5.68681	30.00000	Averaged	
44 Carbon Tetrachloride	4.32362	4.12732	0.010	4.54019	30.00000	Averaged	
45 2,2,4-Trimethylpentane	4.34293	4.32971	0.010	0.30444	40.00000	Averaged	
46 Benzene	1.30824	1.22406	0.010	6.43479	30.00000	Averaged	
49 1,2-Dichloroethane	0.75926	0.71883	0.010	5.32416	30.00000	Averaged	

Air Toxics Ltd.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msdz.i Injection Date: 24-MAY-2007 10:28
Lab File ID: z052403.d Init. Cal. Date(s): 23-MAY-2007 23-MAY-2007
Analysis Type: AIR Init. Cal. Times: 15:51 21:52
Lab Sample ID: CCV-1 Quant Type: ISTD
Method: /chem/msdz.i/24May2007.b/t14q523a.m

COMPOUND	RRF / AMOUNT	RF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
50 Heptane	0.55546	0.55007	0.010	0.96954	30.00000	Averaged
53 Trichloroethene	0.61532	0.58702	0.010	4.59932	30.00000	Averaged
54 1,2-Dichloropropane	0.59503	0.58897	0.010	1.01947	30.00000	Averaged
55 1,4-Dioxane	0.31827	0.33581	0.010	-5.51226	30.00000	Averaged
56 Bromodichloromethane	0.92468	0.92269	0.010	0.21505	30.00000	Averaged
57 cis-1,3-Dichloropropene	0.70400	0.75020	0.010	-6.56201	30.00000	Averaged
58 4-Methyl-2-pentanone	1.26847	1.32917	0.010	-4.78521	30.00000	Averaged
60 Toluene	1.64791	1.59152	0.010	3.42203	30.00000	Averaged
61 trans-1,3-Dichloropropene	0.73190	0.77758	0.010	-6.24191	30.00000	Averaged
62 1,1,2-Trichloroethane	0.53696	0.53544	0.010	0.28308	30.00000	Averaged
63 Tetrachloroethene	0.72247	0.68670	0.010	4.95188	30.00000	Averaged
64 2-Hexanone	0.74433	0.84646	0.010	-13.72139	30.00000	Averaged
66 Dibromochloromethane	0.93415	0.97874	0.010	-4.77311	30.00000	Averaged
67 1,2-Dibromoethane	0.90964	0.90852	0.010	0.12346	30.00000	Averaged
69 Chlorobenzene	1.58497	1.54068	0.010	2.79423	30.00000	Averaged
70 Ethyl Benzene	0.82064	0.81627	0.010	0.53245	30.00000	Averaged
71 m,p-Xylene	1.04381	1.05079	0.010	-0.66930	30.00000	Averaged
72 o-Xylene	1.00016	1.00724	0.010	-0.70776	30.00000	Averaged
73 Styrene	1.54664	1.65034	0.010	-6.70496	30.00000	Averaged
75 Bromoform	0.87117	0.94111	0.010	-8.02827	30.00000	Averaged
76 Cumene	2.94557	3.04777	0.010	-3.46970	30.00000	Averaged
79 1,1,2,2-Tetrachloroethane	1.57037	1.55800	0.010	0.78734	30.00000	Averaged
80 Propylbenzene	3.50907	3.75430	0.010	-6.98827	30.00000	Averaged
82 4-Ethyltoluene	3.16477	3.34549	0.010	-5.71056	30.00000	Averaged
83 1,3,5-Trimethylbenzene	2.81981	2.85966	0.010	-1.41314	30.00000	Averaged
85 1,2,4-Trimethylbenzene	2.69950	2.82085	0.010	-4.49549	30.00000	Averaged
88 1,3-Dichlorobenzene	1.72250	1.76261	0.010	-2.32846	30.00000	Averaged
89 1,4-Dichlorobenzene	1.76643	1.81912	0.010	-2.98287	30.00000	Averaged
90 alpha-chlorotoluene	2.30138	2.85507	0.010	-24.05870	30.00000	Averaged
93 1,2-Dichlorobenzene	1.63496	1.68797	0.010	-3.24221	30.00000	Averaged
97 1,2,4-Trichlorobenzene	0.80172	0.89335	0.010	-11.42951	30.00000	Averaged
98 Hexachlorobutadiene	0.66085	0.68728	0.010	-3.99913	30.00000	Averaged
99 Naphthalene	1.71408	1.99482	0.010	-16.37886	30.00000	Averaged
179 Butane	0.65746	0.62118	0.010	5.51762	40.00000	Averaged
11 Isopentane	1.73612	1.59760	0.010	7.97859	40.00000	Averaged

Air Toxics Ltd.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msdz.i Injection Date: 24-MAY-2007 10:28
Lab File ID: z052403.d Init. Cal. Date(s): 23-MAY-2007 23-MAY-2007
Analysis Type: AIR Init. Cal. Times: 15:51 21:52
Lab Sample ID: CCV-1 Quant Type: ISTD
Method: /chem/msdz.i/24May2007.b/t14q523a.m

COMPOUND	RRF / AMOUNT	RF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
167 Methylcyclohexane	3.96916	4.07904	0.010	-2.76846	40.00000	Averaged

Air Toxics Ltd.

AMBIENT AIR METHOD TO14/TO15

Data file : /chem/msdz.i/24May2007.b/z052403.d
Lab Smp Id: CCV-1 Client Smp ID: CCV-1
Inj Date : 24-MAY-2007 10:28
Operator : ea Inst ID: msdz.i
Smp Info : 125mL #1487-264
Misc Info : 200ppbv->50ppbv
Comment :
Method : /chem/msdz.i/24May2007.b/t14q523a.m
Meth Date : 25-May-2007 10:07 ejakob Quant Type: ISTD
Cal Date : 23-MAY-2007 21:52 Cal File: z052313.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT06QENSR.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				AMOUNTS				
				CAL-AMT	ON-COL			
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE		RATIO
==	====== ========	====	========	=======	=======	==========		=====
* 39 Bromochloromethane						CAS #: 74-97-5		
13.635	13.635 (1.000)	130	163895	10.0000		80.00- 120.00		100.00
13.635	13.635 (1.000)	128	128728			0.00- 30.00		78.54
13.635	13.635 (1.000)	49	302202			0.00- 30.00		184.39
* 52 1,4-Difluorobenzene						CAS #: 540-36-3		
14.887	14.887 (1.000)	114	807212	10.0000		80.00- 120.00		100.00
14.887	14.887 (1.000)	88	134849			0.00- 30.00		16.71
* 68 Chlorobenzene-d5						CAS #: 3114-55-4		
19.141	19.141 (1.000)	117	889943	10.0000		80.00- 120.00		100.00
19.141	19.141 (1.000)	82	503943			0.00- 30.00		56.63
$ 47 1,2-Dichloroethane-d4						CAS #: 17060-07-0		
14.393	14.393 (1.056)	65	320398	10.0000	10.194	80.00- 120.00		100.00
14.393	14.393 (1.056)	67	212545			0.00- 30.00		66.34
$ 59 Toluene-d8						CAS #: 2037-26-5		
17.083	17.083 (1.148)	98	812164	10.0000	10.003	80.00- 120.00		100.00
17.083	17.083 (1.148)	70	93162			0.00- 30.00		11.47

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
$ 59 Toluene-d8 (continued)							
17.083	17.083 (1.148)	100	546013			37.23- 97.23	67.23
$ 77 Bromofluorobenzene					CAS #: 460-00-4		
20.600	20.600 (1.076)	174	499505	10.0000	9.871	80.00- 120.00	100.00
20.600	20.600 (1.076)	95	763796			122.91- 182.91	152.91
20.600	20.600 (1.076)	176	478449			65.78- 125.78	95.78
1 Propylene					CAS #: 115-07-1		
4.497	4.497 (0.330)	41	1910322	50.0000	46.307	80.00- 120.00	100.00
4.497	4.497 (0.330)	42	1290381			0.00- 30.00	67.55
4.497	4.497 (0.330)	39	1350045			0.00- 30.00	70.67
3 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
4.883	4.883 (0.358)	85	4909799	50.0000	46.298	80.00- 120.00	100.00
4.883	4.883 (0.358)	87	1588210			2.35- 62.35	32.35
4 Freon 114					CAS #: 76-14-2		
5.967	5.967 (0.438)	135	3254555	50.0000	47.697	80.00- 120.00	100.00
5.967	5.967 (0.438)	137	1020382			0.00- 30.00	31.35
5 Chloromethane					CAS #: 74-87-3		
6.160	6.160 (0.452)	50	2151747	50.0000	46.717	80.00- 120.00	100.00
6.160	6.160 (0.452)	52	696102			0.00- 30.00	32.35
6 Vinyl Chloride					CAS #: 75-01-4		
6.823	6.823 (0.500)	62	2150002	50.0000	48.770	80.00- 120.00	100.00
6.823	6.823 (0.500)	64	651022			0.28- 60.28	30.28
7 1,3-Butadiene					CAS #: 106-99-0		
7.031	7.031 (0.516)	54	1536764	50.0000	46.529	80.00- 120.00	100.00
7.031	7.031 (0.516)	39	1375934			0.00- 30.00	89.53
9 Bromomethane					CAS #: 74-83-9		
8.218	8.218 (0.603)	94	1084662	50.0000	48.648	80.00- 120.00	100.00
8.218	8.218 (0.603)	96	1027568			64.74- 124.74	94.74
10 Chloroethane					CAS #: 75-00-3		
8.633	8.633 (0.633)	64	838405	50.0000	46.171	80.00- 120.00	100.00
8.633	8.633 (0.633)	49	229357			0.00- 30.00	27.36
8.633	8.633 (0.633)	66	257280			0.00- 30.00	30.69
13 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
9.296	9.296 (0.682)	101	2656498	50.0000	34.324	80.00- 120.00	100.00
9.296	9.296 (0.682)	103	1721831			34.82- 94.82	64.82

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
14 Ethanol					CAS #: 64-17-5		
10.166	10.166 (0.746)	45	714733	50.0000	58.389	80.00- 120.00	100.00
10.166	10.166 (0.746)	43	155393			0.00- 30.00	21.74
10.166	10.166 (0.746)	46	279086			0.00- 30.00	39.05
15 1,1-Dichloroethene					CAS #: 75-35-4		
10.498	10.498 (0.770)	98	801454	50.0000	50.914	80.00- 120.00	100.00
10.498	10.498 (0.770)	61	2758736			0.00- 30.00	344.22
10.498	10.498 (0.770)	96	1261294			0.00- 30.00	157.38
17 Freon 113					CAS #: 76-13-1		
10.518	10.518 (0.771)	151	1670502	50.0000	46.854	80.00- 120.00	100.00
10.518	10.518 (0.771)	153	1068382			33.96- 93.96	63.96
10.518	10.518 (0.771)	101	2180747			0.00- 30.00	130.54
19 Carbon Disulfide					CAS #: 75-15-0		
10.809	10.809 (0.793)	76	4089612	50.0000	50.905	80.00- 120.00	100.00
20 Acetone					CAS #: 67-64-1		
10.767	10.767 (0.790)	58	906978	50.0000	47.153	80.00- 120.00	100.00
10.767	10.767 (0.790)	43	2808625			0.00- 30.00	309.67
21 2-Propanol					CAS #: 67-63-0		
11.119	11.119 (0.815)	45	3768531	50.0000	58.268	80.00- 120.00	100.00
11.119	11.119 (0.815)	43	639914			0.00- 30.00	16.98
11.119	11.119 (0.815)	59	129985			0.00- 30.00	3.45
22 3-Chloroprene					CAS #: 107-05-1		
11.251	11.251 (0.825)	76	611031	50.0000	54.430	80.00- 120.00	100.00
11.251	11.251 (0.825)	41	2202012			0.00- 30.00	360.38
25 Methylene Chloride					CAS #: 75-09-2		
11.498	11.498 (0.843)	84	1146912	50.0000	48.482	80.00- 120.00	100.00
11.498	11.498 (0.843)	49	1970210			0.00- 30.00	171.78
11.498	11.498 (0.843)	51	615929			0.00- 30.00	53.70
27 MTBE					CAS #: 1634-04-4		
11.827	11.827 (0.867)	73	4055561	50.0000	51.651	80.00- 120.00	100.00
11.827	11.827 (0.867)	57	1189211			0.00- 30.00	29.32
11.827	11.827 (0.867)	41	1100276			0.00- 30.00	27.13
28 trans-1,2-Dichloroethene					CAS #: 156-60-5		
11.854	11.854 (0.869)	98	924054	50.0000	49.894	80.00- 120.00	100.00
11.854	11.854 (0.869)	61	2778478			0.00- 30.00	300.68
11.854	11.854 (0.869)	96	1448336			0.00- 30.00	156.74

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
30 Hexane					CAS #: 110-54-3		
12.156	12.156 (0.892)	57	3121560	50.0000	51.800	80.00- 120.00	100.00
12.156	12.156 (0.892)	43	1808543			0.00- 30.00	57.94
12.156	12.156 (0.892)	86	396434			0.00- 30.00	12.70
31 1,1-Dichloroethane					CAS #: 75-34-3		
12.513	12.513 (0.918)	63	3284017	50.0000	50.426	80.00- 120.00	100.00
12.513	12.513 (0.918)	65	991704			0.00- 30.00	30.20
33 Vinyl Acetate					CAS #: 108-05-4		
12.541	12.541 (0.920)	43	3195082	50.0000	59.561	80.00- 120.00	100.00
12.541	12.541 (0.920)	42	274899			0.00- 30.00	8.60
12.568	12.568 (0.922)	86	242135			0.00- 30.00	7.58
36 cis-1,2-Dichloroethene					CAS #: 156-59-2		
13.305	13.305 (0.976)	98	960776	50.0000	50.706	80.00- 120.00	100.00
13.305	13.305 (0.976)	61	2658753			0.00- 30.00	276.73
13.305	13.305 (0.976)	96	1520904			128.30- 188.30	158.30
37 2-Butanone					CAS #: 78-93-3		
13.326	13.326 (0.977)	72	776285	50.0000	56.623	80.00- 120.00	100.00
13.305	13.305 (0.976)	43	3748692			0.00- 30.00	482.90
13.326	13.326 (0.977)	57	329518			0.00- 30.00	42.45
38 Tetrahydrofuran					CAS #: 109-99-9		
13.635	13.635 (1.000)	42	2305291	50.0000	48.627	80.00- 120.00	100.00
13.635	13.635 (1.000)	71	732188			0.00- 30.00	31.76
13.635	13.635 (1.000)	72	785865			0.00- 30.00	34.09
40 Chloroform					CAS #: 67-66-3		
13.697	13.697 (1.005)	83	3143887	50.0000	48.035	80.00- 120.00	100.00
13.697	13.697 (1.005)	85	2022250			0.00- 30.00	64.32
42 Cyclohexane					CAS #: 110-82-7		
13.882	13.882 (1.018)	84	2179383	50.0000	50.283	80.00- 120.00	100.00
13.882	13.882 (1.018)	56	3415533			0.00- 30.00	156.72
13.882	13.882 (1.018)	41	1668682			0.00- 30.00	76.57
43 1,1,1-Trichloroethane					CAS #: 71-55-6		
13.913	13.913 (1.020)	97	3274369	50.0000	47.156	80.00- 120.00	100.00
13.913	13.913 (1.020)	99	2090768			0.00- 30.00	63.85
44 Carbon Tetrachloride					CAS #: 56-23-5		
14.067	14.067 (1.032)	119	3382236	50.0000	47.730	80.00- 120.00	100.00
14.067	14.067 (1.032)	117	3494620			0.00- 30.00	103.32

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
45 2,2,4-Trimethylpentane					CAS #: 540-84-1		
14.338	14.338 (1.051)	56	3548088	50.0000	49.848	80.00- 120.00	100.00
14.338	14.338 (1.051)	57	11041994			0.00- 30.00	311.21
14.338	14.338 (1.051)	41	2674023			0.00- 30.00	75.37
46 Benzene					CAS #: 71-43-2		
14.365	14.365 (0.965)	78	4940363	50.0000	46.783	80.00- 120.00	100.00
14.365	14.365 (0.965)	77	1141217			0.00- 30.00	23.10
49 1,2-Dichloroethane					CAS #: 107-06-2		
14.475	14.475 (0.972)	62	2901246	50.0000	47.338	80.00- 120.00	100.00
14.475	14.475 (0.972)	64	883967			0.00- 30.00	30.47
50 Heptane					CAS #: 142-82-5		
14.557	14.557 (0.978)	57	2220120	50.0000	49.515	80.00- 120.00	100.00
14.557	14.557 (0.978)	100	573141			0.00- 30.00	25.82
14.557	14.557 (0.978)	43	3866457			0.00- 30.00	174.16
53 Trichloroethene					CAS #: 79-01-6		
15.243	15.243 (1.024)	130	2369249	50.0000	47.700	80.00- 120.00	100.00
15.243	15.243 (1.024)	95	2253835			0.00- 30.00	95.13
15.243	15.243 (1.024)	97	1452907			0.00- 30.00	61.32
54 1,2-Dichloropropane					CAS #: 78-87-5		
15.628	15.628 (1.050)	63	2377105	50.0000	49.490	80.00- 120.00	100.00
15.628	15.628 (1.050)	62	1729564			0.00- 30.00	72.76
15.628	15.628 (1.050)	41	1424362			29.92- 89.92	59.92
55 1,4-Dioxane					CAS #: 123-91-1		
15.765	15.765 (1.059)	88	1355369	50.0000	52.756	80.00- 120.00	100.00
15.765	15.765 (1.059)	58	1299458			0.00- 30.00	95.87
15.765	15.765 (1.059)	57	420671			0.00- 30.00	31.04
56 Bromodichloromethane					CAS #: 75-27-4		
16.012	16.012 (1.076)	83	3724052	50.0000	49.892	80.00- 120.00	100.00
16.012	16.012 (1.076)	85	2356787			0.00- 30.00	63.29
57 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
16.725	16.725 (1.123)	75	3027859	50.0000	53.281	80.00- 120.00	100.00
16.725	16.725 (1.123)	77	969585			0.00- 30.00	32.02
16.725	16.725 (1.123)	39	1917975			33.34- 93.34	63.34
58 4-Methyl-2-pentanone					CAS #: 108-10-1		
16.904	16.904 (1.135)	43	5364604	50.0000	52.393	80.00- 120.00	100.00
16.904	16.904 (1.135)	58	2289618			0.00- 30.00	42.68
16.904	16.904 (1.135)	85	775527			0.00- 30.00	14.46

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
60 Toluene						CAS #: 108-88-3	
17.173	17.173 (1.154)	91	6423459	50.0000	48.289	80.00- 120.00	100.00
17.173	17.173 (1.154)	92	3896890			0.00- 30.00	60.67
61 trans-1,3-Dichloropropene						CAS #: 10061-02-6	
17.576	17.576 (0.918)	75	3460012	50.0000	53.121	80.00- 120.00	100.00
17.576	17.576 (0.918)	77	1094343			0.00- 30.00	31.63
17.576	17.576 (0.918)	39	2068412			29.78- 89.78	59.78
62 1,1,2-Trichloroethane						CAS #: 79-00-5	
17.847	17.847 (0.932)	97	2382576	50.0000	49.858	80.00- 120.00	100.00
17.847	17.847 (0.932)	99	1470627			0.00- 30.00	61.72
17.847	17.847 (0.932)	83	1962152			52.35- 112.35	82.35
63 Tetrachloroethene						CAS #: 127-18-4	
17.964	17.964 (0.938)	166	3055611	50.0000	47.524	80.00- 120.00	100.00
17.964	17.964 (0.938)	129	2462891			0.00- 30.00	80.60
17.964	17.964 (0.938)	131	2355642			47.09- 107.09	77.09
64 2-Hexanone						CAS #: 591-78-6	
18.109	18.109 (0.946)	58	3766518	50.0000	56.861	80.00- 120.00	100.00
18.109	18.109 (0.946)	43	6476366			0.00- 30.00	171.95
18.109	18.109 (0.946)	100	597962			0.00- 30.00	15.88
66 Dibromochloromethane						CAS #: 124-48-1	
18.372	18.372 (0.960)	129	4355092	50.0000	52.386	80.00- 120.00	100.00
18.372	18.372 (0.960)	127	3385440			0.00- 30.00	77.74
67 1,2-Dibromoethane						CAS #: 106-93-4	
18.576	18.576 (0.970)	107	4042640	50.0000	49.938	80.00- 120.00	100.00
18.576	18.576 (0.970)	109	3814329			0.00- 30.00	94.35
69 Chlorobenzene						CAS #: 108-90-7	
19.189	19.189 (1.002)	112	6855588	50.0000	48.603	80.00- 120.00	100.00
19.189	19.189 (1.002)	114	2201260			0.00- 30.00	32.11
19.189	19.189 (1.002)	77	4027684			28.75- 88.75	58.75
70 Ethyl Benzene						CAS #: 100-41-4	
19.238	19.238 (1.005)	106	3632186	50.0000	49.734	80.00- 120.00	100.00
19.238	19.238 (1.005)	91	11396075			0.00- 30.00	313.75
71 m,p-Xylene						CAS #: 108-38-3	
19.406	19.406 (1.014)	106	4675727	50.0000	50.335	80.00- 120.00	100.00
19.406	19.406 (1.014)	91	9257633			0.00- 30.00	197.99
72 o-Xylene						CAS #: 95-47-6	
19.912	19.912 (1.040)	106	4481926	50.0000	50.354	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
72 o-Xylene (continued)							
19.912	19.912 (1.040)	91	9318009			0.00- 30.00	207.90
73 Styrene					CAS #: 100-42-5		
19.936	19.936 (1.042)	104	7343556	50.0000	53.352	80.00- 120.00	100.00
19.936	19.936 (1.042)	78	3686375			0.00- 30.00	50.20
75 Bromoform					CAS #: 75-25-2		
20.249	20.249 (1.058)	173	4187655	50.0000	54.014	80.00- 120.00	100.00
20.249	20.249 (1.058)	171	2179467			0.00- 30.00	52.05
76 Cumene					CAS #: 98-82-8		
20.345	20.345 (1.063)	105	13561704	50.0000	51.735	80.00- 120.00	100.00
20.345	20.345 (1.063)	120	3622236			0.00- 30.00	26.71
79 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
20.780	20.780 (1.086)	83	6932670	50.0000	49.606	80.00- 120.00	100.00
20.780	20.780 (1.086)	85	4400889			0.00- 30.00	63.48
80 Propylbenzene					CAS #: 103-65-1		
20.832	20.832 (1.088)	91	16705543	50.0000	53.494	80.00- 120.00	100.00
20.832	20.832 (1.088)	120	3887791			0.00- 30.00	23.27
82 4-Ethyltoluene					CAS #: 622-96-8		
20.961	20.961 (1.095)	105	14886483	50.0000	52.855	80.00- 120.00	100.00
20.961	20.961 (1.095)	120	4435050			0.00- 30.00	29.79
83 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
21.013	21.013 (1.098)	105	12724661	50.0000	50.706	80.00- 120.00	100.00
21.013	21.013 (1.098)	120	6164454			0.00- 30.00	48.44
85 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
21.451	21.451 (1.121)	105	12551983	50.0000	52.248	80.00- 120.00	100.00
21.451	21.451 (1.121)	120	5790261			0.00- 30.00	46.13
88 1,3-Dichlorobenzene					CAS #: 541-73-1		
21.838	21.838 (1.141)	146	7843096	50.0000	51.164	80.00- 120.00	100.00
21.838	21.838 (1.141)	148	4970522			0.00- 30.00	63.37
21.838	21.838 (1.141)	111	3501600			0.00- 30.00	44.65
89 1,4-Dichlorobenzene					CAS #: 106-46-7		
21.941	21.941 (1.146)	146	8094583	50.0000	51.491	80.00- 120.00	100.00
21.941	21.941 (1.146)	148	5114002			0.00- 30.00	63.18
21.941	21.941 (1.146)	111	3485644			0.00- 30.00	43.06
90 alpha-chlorotoluene					CAS #: 100-44-7		
22.096	22.096 (1.154)	91	12704230	50.0000	62.029	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
90 alpha-chlorotoluene (continued)							
22.096	22.096 (1.154)	126	2602952			0.00- 30.00	20.49
93 1,2-Dichlorobenzene					CAS #: 95-50-1		
22.379	22.379 (1.169)	146	7510964	50.0000	51.621	80.00- 120.00	100.00
22.379	22.379 (1.169)	148	4757387			33.34- 93.34	63.34
22.379	22.379 (1.169)	111	3510963			16.74- 76.74	46.74
97 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
24.158	24.158 (1.262)	180	3975160	50.0000	55.715	80.00- 120.00	100.00
24.158	24.158 (1.262)	182	3754768			0.00- 30.00	94.46
98 Hexachlorobutadiene					CAS #: 87-68-3		
24.236	24.236 (1.266)	225	3058214	50.0000	52.000	80.00- 120.00	100.00
24.236	24.236 (1.266)	223	1940541			0.00- 30.00	63.45
99 Naphthalene					CAS #: 91-20-3		
24.468	24.468 (1.278)	128	8876389	50.0000	58.189	80.00- 120.00	100.00
24.468	24.468 (1.278)	127	1114592			0.00- 30.00	12.56
179 Butane					CAS #: 106-97-8		
6.754	6.754 (0.495)	58	509041	50.0000	47.241	80.00- 120.00	100.00
6.754	6.754 (0.495)	43	3496408			0.00- 30.00	686.86
11 Isopentane					CAS #: 78-78-4		
8.757	8.757 (0.642)	57	1309192	50.0000	46.011	80.00- 120.00	100.00
8.757	8.757 (0.642)	43	1648530			0.00- 30.00	125.92
8.757	8.757 (0.642)	42	1427566			0.00- 30.00	109.04
167 Methylcyclohexane					CAS #: 108-87-2		
15.436	15.436 (1.132)	83	3342671	50.0000	51.384	80.00- 120.00	100.00
15.436	15.436 (1.132)	98	1579090			0.00- 30.00	47.24
15.436	15.436 (1.132)	55	3773019			0.00- 30.00	112.87

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdz.i
Lab File ID: z052403.d
Lab Smp Id: CCV-1
Analysis Type: VOA
Quant Type: ISTD
Operator: ea
Method File: /chem/msdz.i/24May2007.b/t14q523a.m
Misc Info: 200ppbv->50ppbv

Calibration Date: 24-MAY-2007
Calibration Time: 10:28
Client Smp ID: CCV-1
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
39 Bromochloromethan	163895	98337	229453	163895	0.00
52 1,4-Difluorobenze	807212	484327	1130097	807212	0.00
68 Chlorobenzene-d5	889943	533966	1245920	889943	0.00

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
39 Bromochloromethan	13.64	13.31	13.97	13.64	0.00
52 1,4-Difluorobenze	14.89	14.56	15.22	14.89	0.00
68 Chlorobenzene-d5	19.14	18.81	19.47	19.14	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/msdz.i/24May2007.b/z052403.d

Date : 24-MAY-2007 10:28

Client ID: CCV-1

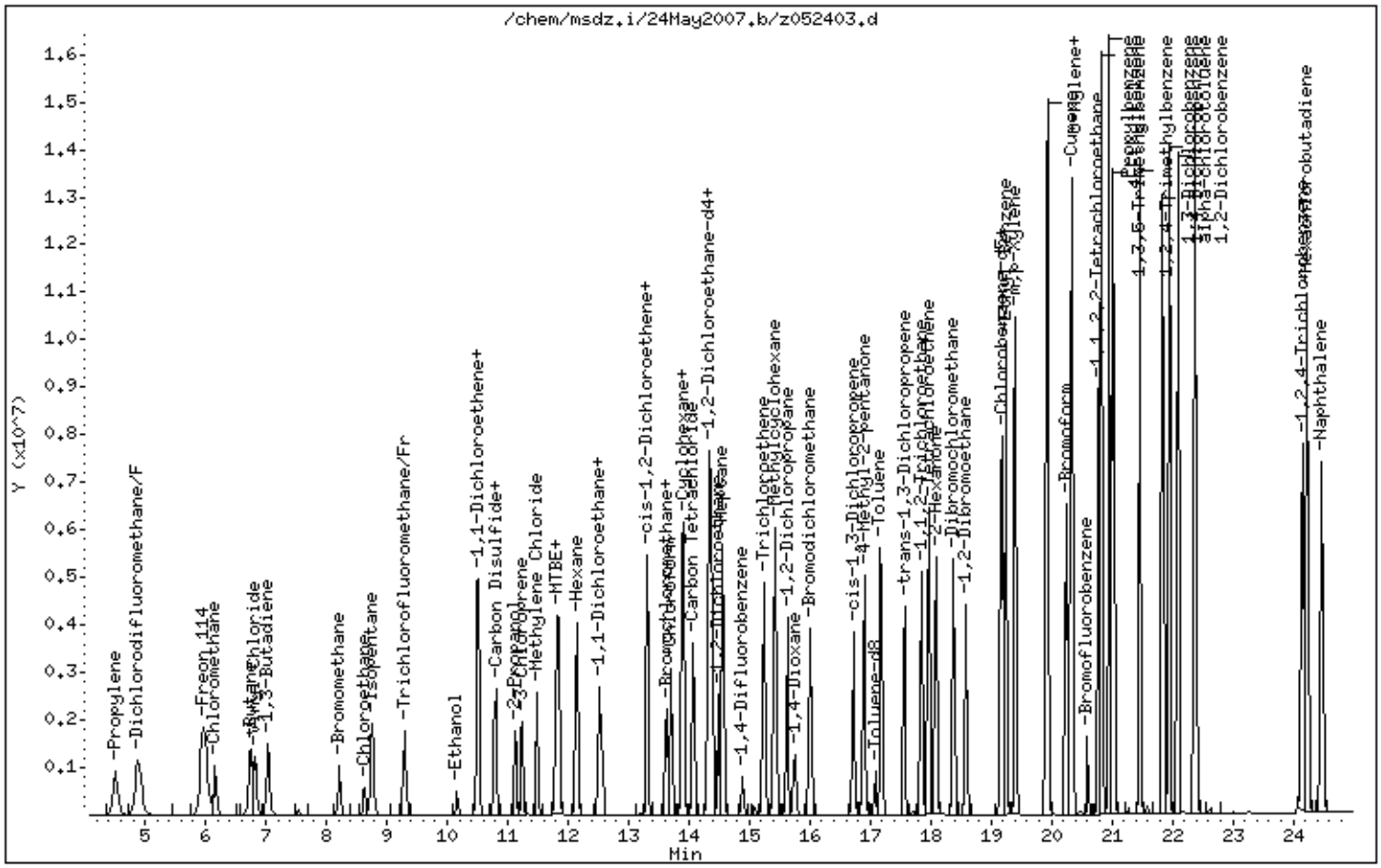
Instrument: msdz.i

Sample Info: 125mL #1487-264

Operator: ea

Column phase: RTx-624

Column diameter: 0.32



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: LCS

Lab ID#: 0705332-05A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**z052404d**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 5/24/07 11:22 AM**	

Compound	%Recovery
Freon 12	96
Freon 114	98
Vinyl Chloride	102
Bromomethane	102
Chloroethane	97
Freon 11	71
1,1-Dichloroethene	118
Freon 113	107
Methylene Chloride	111
1,1-Dichloroethane	110
cis-1,2-Dichloroethene	109
Chloroform	103
1,1,1-Trichloroethane	99
Carbon Tetrachloride	100
Benzene	97
1,2-Dichloroethane	100
Trichloroethene	98
1,2-Dichloropropane	101
cis-1,3-Dichloropropene	110
Toluene	104
trans-1,3-Dichloropropene	108
1,1,2-Trichloroethane	102
Tetrachloroethene	96
1,2-Dibromoethane (EDB)	98
Chlorobenzene	98
Ethyl Benzene	100
m,p-Xylene	101
o-Xylene	102
Styrene	108
1,1,2,2-Tetrachloroethane	99
1,3,5-Trimethylbenzene	101
1,2,4-Trimethylbenzene	104
1,3-Dichlorobenzene	101
1,4-Dichlorobenzene	100
alpha-Chlorotoluene	126
1,2-Dichlorobenzene	100
1,3-Butadiene	96
Hexane	110
Cyclohexane	105

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: LCS

Lab ID#: 0705332-05A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**z052404d**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 5/24/07 11:22 AM**	

Compound	%Recovery
Heptane	103
Bromodichloromethane	103
Dibromochloromethane	106
Cumene	107
Propylbenzene	110
Chloromethane	98
1,2,4-Trichlorobenzene	96
Hexachlorobutadiene	92
Acetone	102
Carbon Disulfide	107
2-Propanol	126
trans-1,2-Dichloroethene	106
2-Butanone (Methyl Ethyl Ketone)	120
Tetrahydrofuran	103
1,4-Dioxane	108
4-Methyl-2-pentanone	111
2-Hexanone	118
Bromoform	109
4-Ethyltoluene	108
Ethanol	134
Methyl tert-butyl ether	110
3-Chloropropene	117
2,2,4-Trimethylpentane	104
Naphthalene	94

Container Type: NA - Not Applicable

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

Report Date: 25-May-2007 10:46

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 24May2007
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: LCS-1 Client Smp ID: LCS-1
Level: LOW Operator: ea
Data Type: MS DATA SampleType: LCS
SpikeList File: Spec+ENSR.spk Quant Type: ISTD
Sublist File: AT06QENSR.sub
Method File: /chem/msdz.i/24May2007.b/t14q523a.m
Misc Info: 200ppbv->50ppbv

SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
3 Dichlorodifluorome	50.000	48.142	96.28	70-130
4 Freon 114	50.000	49.097	98.19	70-130
5 Chloromethane	50.000	49.028	98.06	70-130
6 Vinyl Chloride	50.000	51.246	102.49	70-130
7 1,3-Butadiene	50.000	48.143	96.29	60-140
9 Bromomethane	50.000	50.797	101.59	70-130
10 Chloroethane	50.000	48.356	96.71	70-130
13 Trichlorofluoromet	50.000	35.308	70.62	70-130
14 Ethanol	50.000	67.210	134.42	60-140
17 Freon 113	50.000	53.602	107.20	70-130
15 1,1-Dichloroethene	50.000	59.110	118.22	70-130
20 Acetone	50.000	51.133	102.27	60-140
19 Carbon Disulfide	50.000	53.643	107.29	60-140
21 2-Propanol	50.000	63.059	126.12	60-140
22 3-Chloroprene	50.000	58.386	116.77	60-140
25 Methylene Chloride	50.000	55.326	110.65	70-130
27 MTBE	50.000	55.125	110.25	60-140
28 trans-1,2-Dichloro	50.000	52.867	105.73	60-140
30 Hexane	50.000	54.969	109.94	60-140
31 1,1-Dichloroethane	50.000	54.930	109.86	70-130
36 cis-1,2-Dichloroet	50.000	54.323	108.65	70-130
37 2-Butanone	50.000	59.821	119.64	60-140
38 Tetrahydrofuran	50.000	51.369	102.74	60-140
40 Chloroform	50.000	51.490	102.98	70-130
42 Cyclohexane	50.000	52.329	104.66	60-140
43 1,1,1-Trichloroeth	50.000	49.621	99.24	70-130
44 Carbon Tetrachlori	50.000	49.950	99.90	70-130
45 2,2,4-Trimethylpen	50.000	52.159	104.32	60-140
46 Benzene	50.000	48.366	96.73	70-130
50 Heptane	50.000	51.342	102.68	60-140
49 1,2-Dichloroethane	50.000	50.213	100.43	70-130
53 Trichloroethene	50.000	48.828	97.66	70-130
54 1,2-Dichloropropan	50.000	50.583	101.17	70-130

	SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
55	1,4-Dioxane	50.000	54.158	108.32	60-140
56	Bromodichlorometha	50.000	51.491	102.98	60-140
57	cis-1,3-Dichloropr	50.000	54.855	109.71	70-130
58	4-Methyl-2-pentano	50.000	55.603	111.21	60-140
60	Toluene	50.000	51.975	103.95	70-130
61	trans-1,3-Dichloro	50.000	53.810	107.62	70-130
62	1,1,2-Trichloroeth	50.000	50.814	101.63	70-130
64	2-Hexanone	50.000	59.166	118.33	60-140
63	Tetrachloroethene	50.000	48.189	96.38	70-130
66	Dibromochlorometha	50.000	52.944	105.89	60-140
67	1,2-Dibromoethane	50.000	49.087	98.17	70-130
69	Chlorobenzene	50.000	49.119	98.24	70-130
70	Ethyl Benzene	50.000	50.109	100.22	70-130
71	m,p-Xylene	50.000	50.334	100.67	70-130
72	o-Xylene	50.000	50.822	101.65	70-130
73	Styrene	50.000	54.154	108.31	70-130
75	Bromoform	50.000	54.528	109.06	60-140
76	Cumene	50.000	53.351	106.70	60-140
79	1,1,2,2-Tetrachlor	50.000	49.353	98.71	70-130
80	Propylbenzene	50.000	54.845	109.69	70-130
82	4-Ethyltoluene	50.000	53.774	107.55	60-140
83	1,3,5-Trimethylben	50.000	50.459	100.92	70-130
85	1,2,4-Trimethylben	50.000	52.180	104.36	70-130
88	1,3-Dichlorobenzen	50.000	50.481	100.96	70-130
89	1,4-Dichlorobenzen	50.000	50.177	100.35	70-130
90	alpha-chlorotoluen	50.000	62.908	125.82	70-130
93	1,2-Dichlorobenzen	50.000	49.895	99.79	70-130
97	1,2,4-Trichloroben	50.000	47.881	95.76	70-130
98	Hexachlorobutadien	50.000	46.010	92.02	60-140
99	Naphthalene	50.000	47.200	94.40	60-140
167	Methylcyclohexane	50.000	54.300	108.60	60-140
11	Isopentane	50.000	47.325	94.65	60-140
179	Butane	50.000	49.806	99.61	60-140

	SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 47	1,2-Dichloroethane	10.000	10.448	104.49	70-130
$ 59	Toluene-d8	10.000	10.063	100.63	70-130
$ 77	Bromofluorobenzene	10.000	10.106	101.06	70-130

Air Toxics Ltd.

AMBIENT AIR METHOD TO14/TO15

Data file : /chem/msdz.i/24May2007.b/z052404d.d
Lab Smp Id: LCS-1 Client Smp ID: LCS-1
Inj Date : 24-MAY-2007 11:22
Operator : ea Inst ID: msdz.i
Smp Info : 125mL #1487-274
Misc Info : 200ppbv->50ppbv
Comment :
Method : /chem/msdz.i/24May2007.b/t14q523a.m
Meth Date : 25-May-2007 10:45 ejakob Quant Type: ISTD
Cal Date : 23-MAY-2007 21:52 Cal File: z052313.d
Als bottle: 1 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT06QENSR.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				CONCENTRATIONS ON-COL	FINAL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
* 39 Bromochloromethane					CAS #: 74-97-5		
13.636	13.635 (1.000)	130	158129	10.0000		80.00- 120.00	100.00
13.636	13.635 (1.000)	128	123228			0.00- 30.00	77.93
13.636	13.635 (1.000)	49	292235			0.00- 30.00	184.81
* 52 1,4-Difluorobenzene					CAS #: 540-36-3		
14.887	14.887 (1.000)	114	792414	10.0000		80.00- 120.00	100.00
14.887	14.887 (1.000)	88	127820			0.00- 30.00	16.13
* 68 Chlorobenzene-d5					CAS #: 3114-55-4		
19.141	19.141 (1.000)	117	881490	10.0000		80.00- 120.00	100.00
19.141	19.141 (1.000)	82	510880			0.00- 30.00	57.96
$ 47 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
14.393	14.393 (1.056)	65	316842	10.4485	10.448	80.00- 120.00	100.00
14.393	14.393 (1.056)	67	208601			0.00- 30.00	65.84
$ 59 Toluene-d8					CAS #: 2037-26-5		
17.083	17.083 (1.148)	98	802100	10.0633	10.063	80.00- 120.00	100.00
17.083	17.083 (1.148)	70	91604			0.00- 30.00	11.42

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
$ 59 Toluene-d8 (continued)							
17.083	17.083 (1.148)	100	536044			37.23- 97.23	66.83
$ 77 Bromofluorobenzene					CAS #: 460-00-4		
20.600	20.600 (1.076)	174	506530	10.1063	10.106	80.00- 120.00	100.00
20.600	20.600 (1.076)	95	770994			122.91- 182.91	152.21
20.600	20.600 (1.076)	176	491789			65.78- 125.78	97.09
1 Propylene					CAS #: 115-07-1		
4.497	4.497 (0.330)	41	2050260	51.5113	51.511	80.00- 120.00	100.00
4.497	4.497 (0.330)	42	1381451			0.00- 30.00	67.38
4.497	4.497 (0.330)	39	1465689			0.00- 30.00	71.49
3 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
4.883	4.883 (0.358)	85	4925765	48.1419	48.142	80.00- 120.00	100.00
4.883	4.883 (0.358)	87	1589735			2.35- 62.35	32.27
4 Freon 114					CAS #: 76-14-2		
5.967	5.967 (0.438)	135	3232195	49.0969	49.097	80.00- 120.00	100.00
5.967	5.967 (0.438)	137	1030909			0.00- 30.00	31.90
5 Chloromethane					CAS #: 74-87-3		
6.160	6.160 (0.452)	50	2178713	49.0276	49.028	80.00- 120.00	100.00
6.160	6.160 (0.452)	52	700942			0.00- 30.00	32.17
6 Vinyl Chloride					CAS #: 75-01-4		
6.823	6.823 (0.500)	62	2179640	51.2456	51.246	80.00- 120.00	100.00
6.823	6.823 (0.500)	64	654639			0.28- 60.28	30.03
7 1,3-Butadiene					CAS #: 106-99-0		
7.031	7.031 (0.516)	54	1534135	48.1431	48.143	80.00- 120.00	100.00
7.031	7.031 (0.516)	39	1359859			0.00- 30.00	88.64
9 Bromomethane					CAS #: 74-83-9		
8.218	8.218 (0.603)	94	1092727	50.7973	50.797	80.00- 120.00	100.00
8.218	8.218 (0.603)	96	1034120			64.74- 124.74	94.64
10 Chloroethane					CAS #: 75-00-3		
8.633	8.633 (0.633)	64	847195	48.3564	48.356	80.00- 120.00	100.00
8.633	8.633 (0.633)	49	235487			0.00- 30.00	27.80
8.633	8.633 (0.633)	66	253809			0.00- 30.00	29.96
13 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
9.296	9.296 (0.682)	101	2636563	35.3085	35.308	80.00- 120.00	100.00
9.296	9.296 (0.682)	103	1710008			34.82- 94.82	64.86

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
14 Ethanol					CAS #: 64-17-5		
10.166	10.166 (0.746)	45	793773	67.2102	67.210	80.00- 120.00	100.00
10.166	10.166 (0.746)	43	172522			0.00- 30.00	21.73
10.166	10.166 (0.746)	46	312564			0.00- 30.00	39.38
15 1,1-Dichloroethene					CAS #: 75-35-4		
10.498	10.498 (0.770)	98	897736	59.1102	59.110	80.00- 120.00	100.00
10.498	10.498 (0.770)	61	3071686			0.00- 30.00	342.16
10.498	10.498 (0.770)	96	1396806			0.00- 30.00	155.59
17 Freon 113					CAS #: 76-13-1		
10.518	10.518 (0.771)	151	1843837	53.6017	53.602	80.00- 120.00	100.00
10.518	10.518 (0.771)	153	1174773			33.96- 93.96	63.71
10.518	10.518 (0.771)	101	2400820			0.00- 30.00	130.21
19 Carbon Disulfide					CAS #: 75-15-0		
10.809	10.809 (0.793)	76	4157901	53.6427	53.643	80.00- 120.00	100.00
20 Acetone					CAS #: 67-64-1		
10.767	10.767 (0.790)	58	948937	51.1330	51.133	80.00- 120.00	100.00
10.767	10.767 (0.790)	43	2944672			0.00- 30.00	310.31
21 2-Propanol					CAS #: 67-63-0		
11.120	11.119 (0.815)	45	3934903	63.0593	63.059	80.00- 120.00	100.00
11.120	11.119 (0.815)	43	630598			0.00- 30.00	16.03
11.120	11.119 (0.815)	59	137005			0.00- 30.00	3.48
22 3-Chloroprene					CAS #: 107-05-1		
11.251	11.251 (0.825)	76	632378	58.3858	58.386	80.00- 120.00	100.00
11.251	11.251 (0.825)	41	2264607			0.00- 30.00	358.11
25 Methylene Chloride					CAS #: 75-09-2		
11.498	11.498 (0.843)	84	1262780	55.3265	55.326	80.00- 120.00	100.00
11.498	11.498 (0.843)	49	2160470			0.00- 30.00	171.09
11.498	11.498 (0.843)	51	675030			0.00- 30.00	53.46
27 MTBE					CAS #: 1634-04-4		
11.827	11.827 (0.867)	73	4176097	55.1252	55.125	80.00- 120.00	100.00
11.827	11.827 (0.867)	57	1220827			0.00- 30.00	29.23
11.827	11.827 (0.867)	41	1120518			0.00- 30.00	26.83
28 trans-1,2-Dichloroethene					CAS #: 156-60-5		
11.855	11.854 (0.869)	98	944672	52.8672	52.867	80.00- 120.00	100.00
11.855	11.854 (0.869)	61	2836135			0.00- 30.00	300.22
11.855	11.854 (0.869)	96	1481033			0.00- 30.00	156.78

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
30 Hexane					CAS #: 110-54-3		
12.157	12.156 (0.892)	57	3196002	54.9690	54.969	80.00- 120.00	100.00
12.157	12.156 (0.892)	43	1847558			0.00- 30.00	57.81
12.157	12.156 (0.892)	86	396224			0.00- 30.00	12.40
31 1,1-Dichloroethane					CAS #: 75-34-3		
12.513	12.513 (0.918)	63	3451441	54.9298	54.930	80.00- 120.00	100.00
12.513	12.513 (0.918)	65	1036007			0.00- 30.00	30.02
33 Vinyl Acetate					CAS #: 108-05-4		
12.541	12.541 (0.920)	43	3576438	69.1008	69.101	80.00- 120.00	100.00
12.541	12.541 (0.920)	42	307178			0.00- 30.00	8.59
12.568	12.541 (0.922)	86	273754			0.00- 30.00	7.65
36 cis-1,2-Dichloroethene					CAS #: 156-59-2		
13.305	13.305 (0.976)	98	993106	54.3234	54.323	80.00- 120.00	100.00
13.305	13.305 (0.976)	61	2720750			0.00- 30.00	273.96
13.305	13.305 (0.976)	96	1558607			128.30- 188.30	156.94
37 2-Butanone					CAS #: 78-93-3		
13.326	13.326 (0.977)	72	791271	59.8211	59.821	80.00- 120.00	100.00
13.326	13.326 (0.977)	43	3857238			0.00- 30.00	487.47
13.326	13.326 (0.977)	57	338613			0.00- 30.00	42.79
38 Tetrahydrofuran					CAS #: 109-99-9		
13.636	13.635 (1.000)	42	2349606	51.3693	51.369	80.00- 120.00	100.00
13.636	13.635 (1.000)	71	734232			0.00- 30.00	31.25
13.636	13.635 (1.000)	72	801215			0.00- 30.00	34.10
40 Chloroform					CAS #: 67-66-3		
13.697	13.697 (1.005)	83	3251457	51.4899	51.490	80.00- 120.00	100.00
13.697	13.697 (1.005)	85	2078811			0.00- 30.00	63.93
42 Cyclohexane					CAS #: 110-82-7		
13.882	13.882 (1.018)	84	2188254	52.3290	52.329	80.00- 120.00	100.00
13.882	13.882 (1.018)	56	3475205			0.00- 30.00	158.81
13.882	13.882 (1.018)	41	1703749			0.00- 30.00	77.86
43 1,1,1-Trichloroethane					CAS #: 71-55-6		
13.913	13.913 (1.020)	97	3324286	49.6212	49.621	80.00- 120.00	100.00
13.913	13.913 (1.020)	99	2131639			0.00- 30.00	64.12
44 Carbon Tetrachloride					CAS #: 56-23-5		
14.067	14.067 (1.032)	119	3415016	49.9498	49.950	80.00- 120.00	100.00
14.067	14.067 (1.032)	117	3536104			0.00- 30.00	103.55

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
45 2,2,4-Trimethylpentane					CAS #: 540-84-1		
14.338	14.338 (1.051)	56	3581973	52.1588	52.159	80.00- 120.00	100.00
14.338	14.338 (1.051)	57	11180121			0.00- 30.00	312.12
14.338	14.338 (1.051)	41	2722498			0.00- 30.00	76.01
46 Benzene					CAS #: 71-43-2		
14.365	14.365 (0.965)	78	5013909	48.3657	48.366	80.00- 120.00	100.00
14.365	14.365 (0.965)	77	1144199			0.00- 30.00	22.82
49 1,2-Dichloroethane					CAS #: 107-06-2		
14.475	14.475 (0.972)	62	3021031	50.2129	50.213	80.00- 120.00	100.00
14.475	14.475 (0.972)	64	939776			0.00- 30.00	31.11
50 Heptane					CAS #: 142-82-5		
14.557	14.557 (0.978)	57	2259836	51.3422	51.342	80.00- 120.00	100.00
14.557	14.557 (0.978)	100	578505			0.00- 30.00	25.60
14.557	14.557 (0.978)	43	3918735			0.00- 30.00	173.41
53 Trichloroethene					CAS #: 79-01-6		
15.244	15.243 (1.024)	130	2380810	48.8282	48.828	80.00- 120.00	100.00
15.244	15.243 (1.024)	95	2293491			0.00- 30.00	96.33
15.244	15.243 (1.024)	97	1470476			0.00- 30.00	61.76
54 1,2-Dichloropropane					CAS #: 78-87-5		
15.628	15.628 (1.050)	63	2385054	50.5831	50.583	80.00- 120.00	100.00
15.628	15.628 (1.050)	62	1744491			0.00- 30.00	73.14
15.628	15.628 (1.050)	41	1436302			29.92- 89.92	60.22
55 1,4-Dioxane					CAS #: 123-91-1		
15.765	15.765 (1.059)	88	1365881	54.1581	54.158	80.00- 120.00	100.00
15.765	15.765 (1.059)	58	1326536			0.00- 30.00	97.12
15.765	15.765 (1.059)	57	428030			0.00- 30.00	31.34
56 Bromodichloromethane					CAS #: 75-27-4		
16.012	16.012 (1.076)	83	3772945	51.4915	51.491	80.00- 120.00	100.00
16.012	16.012 (1.076)	85	2384694			0.00- 30.00	63.21
57 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
16.725	16.725 (1.123)	75	3060182	54.8554	54.855	80.00- 120.00	100.00
16.725	16.725 (1.123)	77	964422			0.00- 30.00	31.52
16.725	16.725 (1.123)	39	1936542			33.34- 93.34	63.28
58 4-Methyl-2-pentanone					CAS #: 108-10-1		
16.904	16.904 (1.135)	43	5588981	55.6033	55.603	80.00- 120.00	100.00
16.904	16.904 (1.135)	58	2374597			0.00- 30.00	42.49
16.904	16.904 (1.135)	85	807506			0.00- 30.00	14.45

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
60 Toluene					CAS #: 108-88-3		
17.173	17.173 (1.154)	91	6787067	51.9753	51.975	80.00- 120.00	100.00
17.173	17.173 (1.154)	92	4097968			0.00- 30.00	60.38
61 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
17.576	17.576 (0.918)	75	3471626	53.8104	53.810	80.00- 120.00	100.00
17.576	17.576 (0.918)	77	1101476			0.00- 30.00	31.73
17.576	17.576 (0.918)	39	2065824			29.78- 89.78	59.51
62 1,1,2-Trichloroethane					CAS #: 79-00-5		
17.847	17.847 (0.932)	97	2405192	50.8144	50.814	80.00- 120.00	100.00
17.847	17.847 (0.932)	99	1490238			0.00- 30.00	61.96
17.847	17.847 (0.932)	83	1978464			52.35- 112.35	82.26
63 Tetrachloroethene					CAS #: 127-18-4		
17.964	17.964 (0.938)	166	3068910	48.1886	48.189	80.00- 120.00	100.00
17.964	17.964 (0.938)	129	2496323			0.00- 30.00	81.34
17.964	17.964 (0.938)	131	2376871			47.09- 107.09	77.45
64 2-Hexanone					CAS #: 591-78-6		
18.110	18.109 (0.946)	58	3882015	59.1663	59.166	80.00- 120.00	100.00
18.110	18.109 (0.946)	43	6635888			0.00- 30.00	170.94
18.110	18.109 (0.946)	100	611630			0.00- 30.00	15.76
66 Dibromochloromethane					CAS #: 124-48-1		
18.372	18.372 (0.960)	129	4359658	52.9444	52.944	80.00- 120.00	100.00
18.372	18.372 (0.960)	127	3384436			0.00- 30.00	77.63
67 1,2-Dibromoethane					CAS #: 106-93-4		
18.576	18.576 (0.970)	107	3936003	49.0872	49.087	80.00- 120.00	100.00
18.576	18.576 (0.970)	109	3726112			0.00- 30.00	94.67
69 Chlorobenzene					CAS #: 108-90-7		
19.189	19.189 (1.002)	112	6862637	49.1194	49.119	80.00- 120.00	100.00
19.189	19.189 (1.002)	114	2199475			0.00- 30.00	32.05
19.189	19.189 (1.002)	77	4056847			28.75- 88.75	59.11
70 Ethyl Benzene					CAS #: 100-41-4		
19.238	19.238 (1.005)	106	3624801	50.1086	50.109	80.00- 120.00	100.00
19.238	19.238 (1.005)	91	11349550			0.00- 30.00	313.11
71 m,p-Xylene					CAS #: 108-38-3		
19.406	19.406 (1.014)	106	4631272	50.3342	50.334	80.00- 120.00	100.00
19.406	19.406 (1.014)	91	9168809			0.00- 30.00	197.98
72 o-Xylene					CAS #: 95-47-6		
19.912	19.912 (1.040)	106	4480676	50.8226	50.822	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
72 o-Xylene (continued)							
19.912	19.912 (1.040)	91	9395885			0.00- 30.00	209.70
73 Styrene					CAS #: 100-42-5		
19.936	19.936 (1.042)	104	7383155	54.1546	54.154	80.00- 120.00	100.00
19.936	19.936 (1.042)	78	3708482			0.00- 30.00	50.23
75 Bromoform					CAS #: 75-25-2		
20.249	20.249 (1.058)	173	4187302	54.5275	54.528	80.00- 120.00	100.00
20.249	20.249 (1.058)	171	2171543			0.00- 30.00	51.86
76 Cumene					CAS #: 98-82-8		
20.346	20.345 (1.063)	105	13852617	53.3514	53.351	80.00- 120.00	100.00
20.346	20.345 (1.063)	120	3675694			0.00- 30.00	26.53
79 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
20.781	20.780 (1.086)	83	6831719	49.3528	49.353	80.00- 120.00	100.00
20.781	20.780 (1.086)	85	4349362			0.00- 30.00	63.66
80 Propylbenzene					CAS #: 103-65-1		
20.832	20.832 (1.088)	91	16964740	54.8451	54.845	80.00- 120.00	100.00
20.832	20.832 (1.088)	120	3946224			0.00- 30.00	23.26
82 4-Ethyltoluene					CAS #: 622-96-8		
20.961	20.961 (1.095)	105	15001289	53.7737	53.774	80.00- 120.00	100.00
20.961	20.961 (1.095)	120	4478386			0.00- 30.00	29.85
83 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
21.013	21.013 (1.098)	105	12542347	50.4593	50.459	80.00- 120.00	100.00
21.013	21.013 (1.098)	120	6123829			0.00- 30.00	48.83
85 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
21.451	21.451 (1.121)	105	12416751	52.1805	52.180	80.00- 120.00	100.00
21.451	21.451 (1.121)	120	5688960			0.00- 30.00	45.82
88 1,3-Dichlorobenzene					CAS #: 541-73-1		
21.838	21.838 (1.141)	146	7664889	50.4812	50.481	80.00- 120.00	100.00
21.838	21.838 (1.141)	148	4817098			0.00- 30.00	62.85
21.838	21.838 (1.141)	111	3421079			0.00- 30.00	44.63
89 1,4-Dichlorobenzene					CAS #: 106-46-7		
21.941	21.941 (1.146)	146	7813007	50.1769	50.177	80.00- 120.00	100.00
21.941	21.941 (1.146)	148	4935602			0.00- 30.00	63.17
21.941	21.941 (1.146)	111	3364386			0.00- 30.00	43.06
90 alpha-chlorotoluene					CAS #: 100-44-7		
22.096	22.096 (1.154)	91	12761918	62.9085	62.908	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
90 alpha-chlorotoluene (continued)							
22.096	22.096 (1.154)	126	2589201			0.00- 30.00	20.29
93 1,2-Dichlorobenzene					CAS #: 95-50-1		
22.379	22.379 (1.169)	146	7190912	49.8954	49.895	80.00- 120.00	100.00
22.379	22.379 (1.169)	148	4563309			33.34- 93.34	63.46
22.379	22.379 (1.169)	111	3368970			16.74- 76.74	46.85
97 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
24.158	24.158 (1.262)	180	3383763	47.8807	47.881	80.00- 120.00	100.00
24.158	24.158 (1.262)	182	3224278			0.00- 30.00	95.29
98 Hexachlorobutadiene					CAS #: 87-68-3		
24.236	24.236 (1.266)	225	2680279	46.0105	46.010	80.00- 120.00	100.00
24.236	24.236 (1.266)	223	1696726			0.00- 30.00	63.30
99 Naphthalene					CAS #: 91-20-3		
24.468	24.468 (1.278)	128	7131708	47.2004	47.200	80.00- 120.00	100.00
24.468	24.468 (1.278)	127	890284			0.00- 30.00	12.48
179 Butane					CAS #: 106-97-8		
6.754	6.754 (0.495)	58	517798	49.8061	49.806	80.00- 120.00	100.00
6.754	6.754 (0.495)	43	3600777			0.00- 30.00	695.40
11 Isopentane					CAS #: 78-78-4		
8.757	8.757 (0.642)	57	1299223	47.3253	47.325	80.00- 120.00	100.00
8.757	8.757 (0.642)	43	1664470			0.00- 30.00	128.11
8.757	8.757 (0.642)	42	1420951			0.00- 30.00	109.37
167 Methylcyclohexane					CAS #: 108-87-2		
15.436	15.436 (1.132)	83	3408062	54.2998	54.300	80.00- 120.00	100.00
15.436	15.436 (1.132)	98	1603099			0.00- 30.00	47.04
15.436	15.436 (1.132)	55	3868944			0.00- 30.00	113.52

Report Date: 25-May-2007 10:46

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdz.i
Lab File ID: z052404d.d
Lab Smp Id: LCS-1
Analysis Type: VOA
Quant Type: ISTD
Operator: ea
Method File: /chem/msdz.i/24May2007.b/t14q523a.m
Misc Info: 200ppbv->50ppbv

Calibration Date: 24-MAY-2007
Calibration Time: 10:28
Client Smp ID: LCS-1
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
39 Bromochloromethan	163895	98337	229453	158129	-3.52
52 1,4-Difluorobenze	807212	484327	1130097	792414	-1.83
68 Chlorobenzene-d5	889943	533966	1245920	881490	-0.95

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
39 Bromochloromethan	13.64	13.31	13.97	13.64	0.00
52 1,4-Difluorobenze	14.89	14.56	15.22	14.89	0.00
68 Chlorobenzene-d5	19.14	18.81	19.47	19.14	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/msdz.i/24May2007.b/z052404d.d

Date : 24-MAY-2007 11:22

Client ID: LCS-1

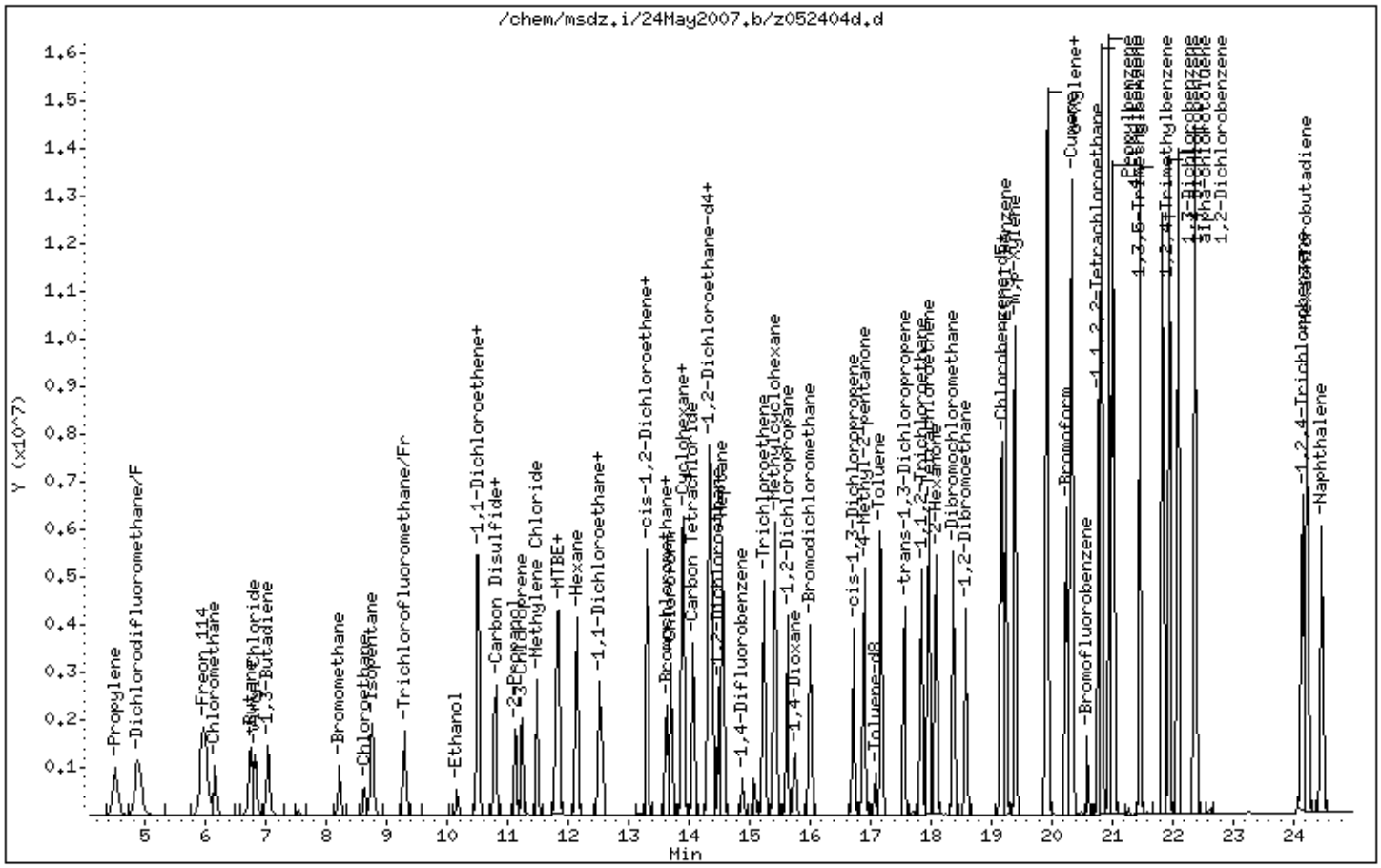
Instrument: msdz.i

Sample Info: 125mL #1487-274

Operator: ea

Column phase: RTx-624

Column diameter: 0.32



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MSD-Z

Logbook #: 1474

0168

m/z	ION ABUNDANCE CRITERIA	% REL. ABUNDANCE
50	15.0 – 40.0% of mass 95	26.42
75	30.0 – 60.0% of mass 95	47.25
95	Base peak, 100.00% relative abundance	100.00
96	5.0 – 9.0% of mass 95	4.73
173	Less than 2.0% of mass 174	(0.85)[1]
174	Greater than 50.0% of mass 95	71.95
175	5.0 – 9.0% of mass 174	(7.28)[1]
176	Greater than 95.0% but less than 101.0% of mass 174	(96.34)[1]
177	5.0 – 9.0% of mass 176	(6.59)[2]

[1] - value in parenthesis is % mass 174

[2] - value in parenthesis is % mass 176

BFB Injection Date: 5-24-07

BFB Injection Time: 0856

BFB File ID: Z052407

Tekmar Purge Flow: 5/24/07 GA

Vacuum:

IS/S Std.#:	1443-81	Exp. Date: 8-10-07
BCM	163895	
1,4-DFB	807212	
CB-d5	889943	

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

Verify 176/174 m/z Ratio: 628522 / 652394 X100 = 96.34

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

Calculation Check:

ppbv of compound $= \frac{Area_{Sample}}{Area_{IS}} \times \frac{Conc._{IS}}{RRF} = \frac{(\ 499505\ )}{(\ 889943\ )} \times \frac{(\ 10.00\ )}{(\ 0.54959\ )} = 9.071$

Reported Result 9.071

File ID: Z052403
Compound: BFB
Initials: tb

	Use	File #	Sample / Client Name	Can #	Pressure	Amt Loaded	DF	Loader Init.	Date Analyzed	Time Analyzed	Review Init.	Comments
1	✓	Z052401	BFB Tune check	843-2415	30psig	2mL	1.00	BJ	5-24-07	0856	BJ	
2	X	07	CCV #1487-264	200ppbv → 50ppbv		125mL	1.00	BJ		0931	BJ	Bad level
3	✓	08	CCV-1 (200ppbv)	1487-264	↓	↓	↓	tb		1028	BJ	1 of 7
4	✓	09	LCS-1 (200ppbv)	1487-274	↓	↓	↓	tb		1122	tb	ICAL LCS pass
5	✓	05	Lab Blank	409	Humid	500mL	1.00	tb		1212	tb	
6	✓	06	070533Z-01B	35996	3.0"Hg-5psi	500mL	1.49	tb		1301	tb	
7	✓	07	-01A	35993	5.5"Hg-5psi	↓	1.69	tb		1408	DW/EA	
8	✓	08	-01AD	35996	3.0"Hg-5psi	↓	1.49	tb		1459	DW/EA	
9	✓	09	070533S-01A	4223	6.5"Hg-5psi	↓	1.71	tb	↓	1544	DW/EA	

Signature

5-24-07

Date

Air Toxics Ltd.

Data file : /var/chem/msdz.i/23May2007.b/z052306.d
Lab Smp Id: Client Smp ID: BFB
Inj Date : 23-MAY-2007 14:32
Operator : ea Inst ID: msdz.i
Smp Info : 2.0uL #843-2915;bfb tune check;bfb tune check
Misc Info : 50ng
Comment :
Method : /var/chem/msdz.i/23May2007.b/bfb60.m
Meth Date : 23-May-2007 09:10 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		
5.937	5.937	0.000	95	1125866			100.00- 100.00	100.00
5.937	5.937	0.000	50	293237			15.00- 40.00	26.05
5.937	5.937	0.000	75	535292			30.00- 60.00	47.54
5.937	5.937	0.000	96	74697			5.00- 9.00	6.63
5.937	5.937	0.000	173	6469			0.00- 2.00	0.76
5.937	5.937	0.000	174	851669			50.00- 100.00	75.65
5.937	5.937	0.000	175	61946			5.00- 9.00	7.27
5.937	5.937	0.000	176	826490			95.00- 101.00	97.04
5.937	5.937	0.000	177	53231			5.00- 9.00	6.44

Data File: /var/chem/msdz.i/23May2007.b/z052306.d

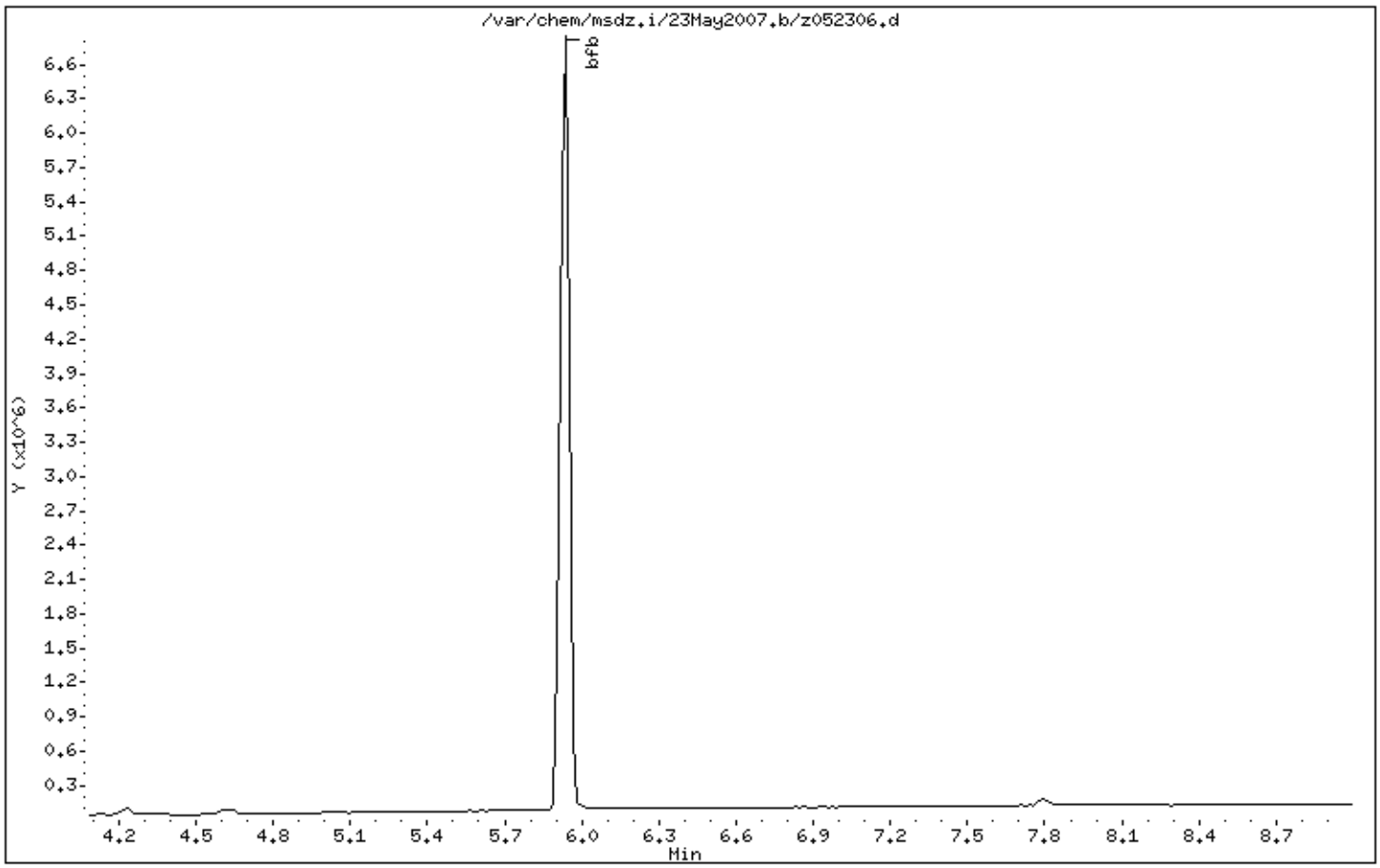
Date : 23-MAY-2007 14:32

Client ID: BFB Instrument: msdz.i

Sample Info: 2.0uL #843-2915;bfb tune check;bfb tune check

Volume Injected (uL): 1.0 Operator: ea

Column phase: Column diameter: 2.00



Data File: /var/chem/msdz.i/23May2007.b/z052306.d

Date : 23-MAY-2007 14:32

Client ID: BFB

Instrument: msdz.i

Sample Info: 2.0uL #843-2915;bfb tune check;bfb tune check

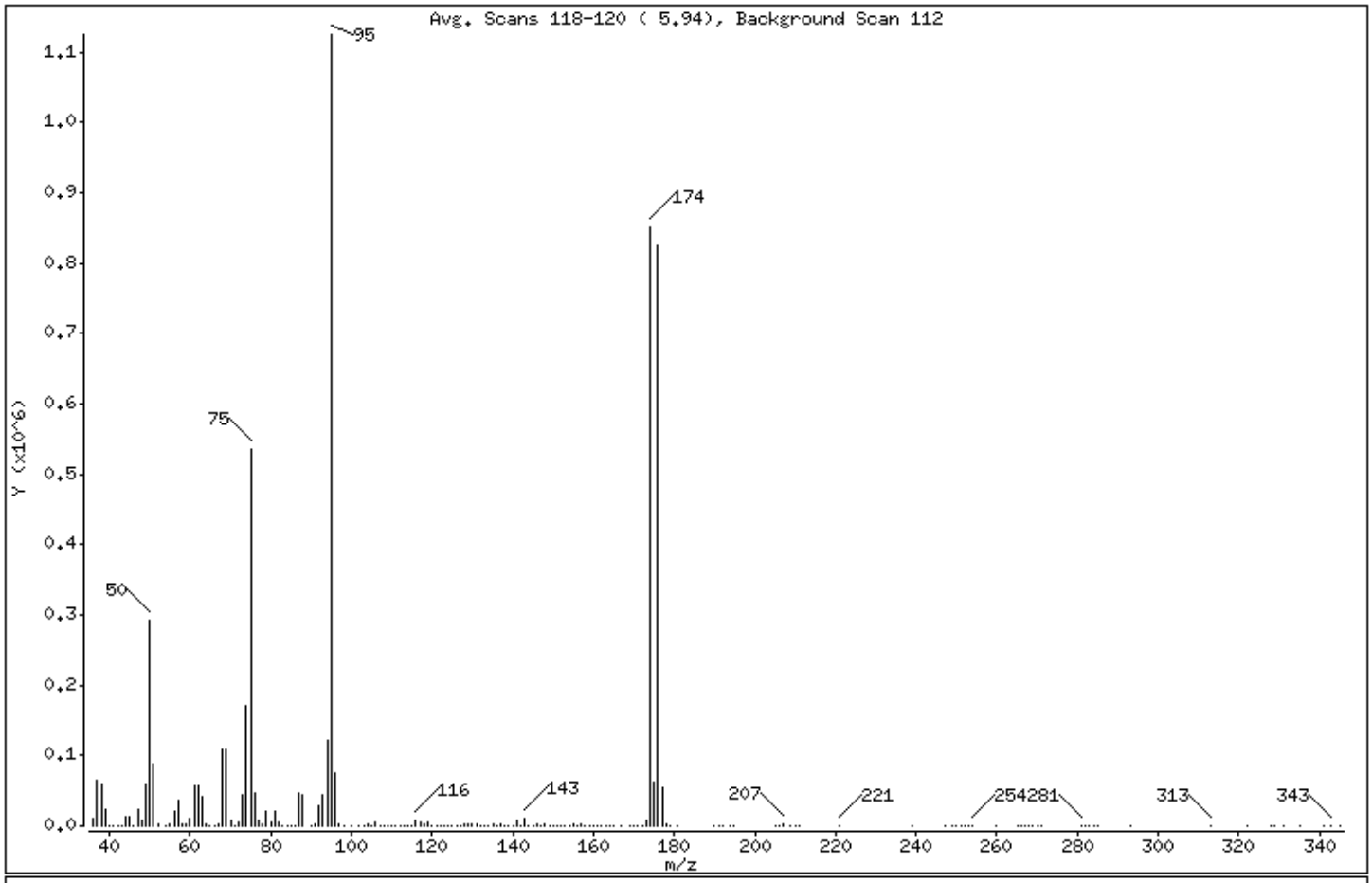
Volume Injected (uL): 1.0

Operator: ea

Column phase:

Column diameter: 2.00

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	26.05
75	30.00 - 60.00% of mass 95	47.54
96	5.00 - 9.00% of mass 95	6.63
173	Less than 2.00% of mass 174	0.57 (0.76)
174	50.00 - 100.00% of mass 95	75.65
175	5.00 - 9.00% of mass 174	5.50 (7.27)
176	95.00 - 101.00% of mass 174	73.41 (97.04)
177	5.00 - 9.00% of mass 176	4.73 (6.44)

Date : 23-MAY-2007 14:32

Client ID: BFB Instrument: msdz.i

Sample Info: 2.0uL #843-2915;bfb tune check;bfb tune check

Volume Injected (uL): 1.0 Operator: ea

Column phase: Column diameter: 2.00

Data File: z052306.d
Spectrum: Avg. Scans 118-120 (5.94), Background Scan 112
Location of Maximum: 95.00
Number of points: 182

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	11228	83.00	710	132.00	380	181.00	148
37.00	64480	84.00	97	133.00	86	190.00	57
38.00	58808	85.00	16	134.00	377	191.00	513
39.00	23288	86.00	1251	135.00	1640	192.00	71
40.00	1083	87.00	45872	136.00	234	194.00	138
41.00	222	88.00	44552	137.00	1777	195.00	77
42.00	1212	90.00	104	138.00	263	205.00	55
43.00	1166	91.00	3243	139.00	443	206.00	50
44.00	12306	92.00	28152	140.00	676	207.00	1444
45.00	12696	93.00	43464	141.00	8539	209.00	282
46.00	622	94.00	122104	142.00	1045	210.00	137
47.00	24272	95.00	1125376	143.00	9115	211.00	108
48.00	8908	96.00	74696	144.00	455	221.00	64
49.00	58504	97.00	2201	145.00	908	239.00	10
50.00	293184	98.00	149	146.00	1301	247.00	53
51.00	89176	100.00	675	147.00	596	249.00	78
52.00	3689	102.00	71	148.00	2068	250.00	165
54.00	329	103.00	525	149.00	765	251.00	4
55.00	3067	104.00	3485	150.00	1024	252.00	50
56.00	19488	105.00	1146	151.00	133	253.00	153
57.00	35800	106.00	3990	152.00	429	254.00	258
58.00	1837	107.00	911	153.00	990	260.00	29
59.00	2087	108.00	218	154.00	594	265.00	66
60.00	11171	109.00	214	155.00	2474	266.00	111
61.00	56552	110.00	350	156.00	404	267.00	85
62.00	56576	111.00	767	157.00	1798	268.00	131
63.00	41432	112.00	509	158.00	486	269.00	365
64.00	3621	113.00	659	159.00	1277	270.00	245
65.00	501	114.00	57	160.00	184	271.00	81
66.00	83	115.00	1250	161.00	1054	281.00	407
67.00	2632	116.00	7737	162.00	111	282.00	86
68.00	109080	117.00	5785	163.00	30	283.00	309
69.00	107936	118.00	3294	164.00	125	284.00	143
70.00	7740	119.00	4899	165.00	221	285.00	105
71.00	479	120.00	331	167.00	50	293.00	58

Date : 23-MAY-2007 14:32

Client ID: BFB Instrument: msdz.i

Sample Info: 2.0uL #843-2915;bfb tune check;bfb tune check

Volume Injected (uL): 1.0 Operator: ea

Column phase: Column diameter: 2.00

Data File: z052306.d
Spectrum: Avg. Scans 118-120 (5.94), Background Scan 112
Location of Maximum: 95.00
Number of points: 182

m/z	Y	m/z	Y	m/z	Y	m/z	Y
72.00	6277	121.00	62	169.00	117	313.00	57
73.00	43048	122.00	228	170.00	345	322.00	53
74.00	171200	123.00	113	171.00	363	328.00	52
75.00	535232	124.00	587	172.00	701	329.00	61
76.00	45760	125.00	277	173.00	6469	331.00	51
77.00	6858	126.00	320	174.00	851648	335.00	50
78.00	3557	127.00	236	175.00	61944	341.00	178
79.00	20864	128.00	3508	176.00	826432	343.00	194
80.00	6152	129.00	1632	177.00	53224	345.00	104
81.00	21360	130.00	3412	178.00	1432		
82.00	4000	131.00	2911	179.00	31		

Air Toxics Ltd.

Data file : /var/chem/msdz.i/24May2007.b/z052401.d
Lab Smp Id: Client Smp ID: BFB
Inj Date : 24-MAY-2007 08:56
Operator : ej Inst ID: msdz.i
Smp Info : 2uL #843-2915;BFB Tune Check
Misc Info : 50ng
Comment :
Method : /var/chem/msdz.i/24May2007.b/bfb60.m
Meth Date : 24-May-2007 08:51 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		
5.937	5.937	0.000	95	906752			100.00- 100.00	100.00
5.937	5.937	0.000	50	239521			15.00- 40.00	26.42
5.937	5.937	0.000	75	428421			30.00- 60.00	47.25
5.937	5.937	0.000	96	60988			5.00- 9.00	6.73
5.937	5.937	0.000	173	5546			0.00- 2.00	0.85
5.937	5.937	0.000	174	652394			50.00- 100.00	71.95
5.937	5.937	0.000	175	47493			5.00- 9.00	7.28
5.937	5.937	0.000	176	628522			95.00- 101.00	96.34
5.937	5.937	0.000	177	41420			5.00- 9.00	6.59

Data File: /var/chem/msdz.i/24May2007.b/z052401.d

Date : 24-MAY-2007 08:56

Client ID: BFB

Instrument: msdz.i

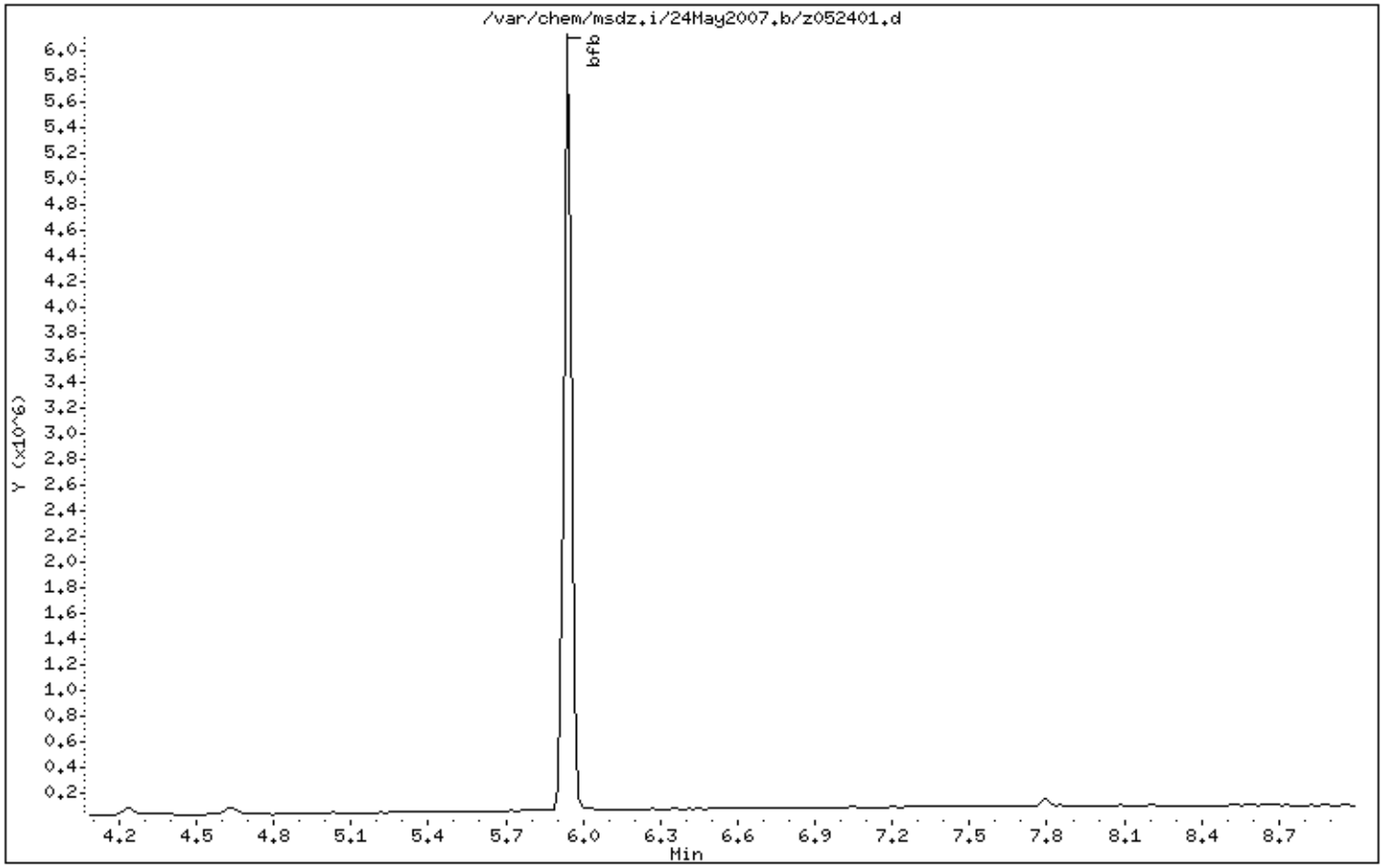
Sample Info: 2uL #843-2915;BFB Tune Check

Volume Injected (uL): 1.0

Operator: ej

Column phase:

Column diameter: 2.00



Data File: /var/chem/msdz.i/24May2007.b/z052401.d

Date : 24-MAY-2007 08:56

Client ID: BFB

Instrument: msdz.i

Sample Info: 2uL #843-2915;BFB Tune Check

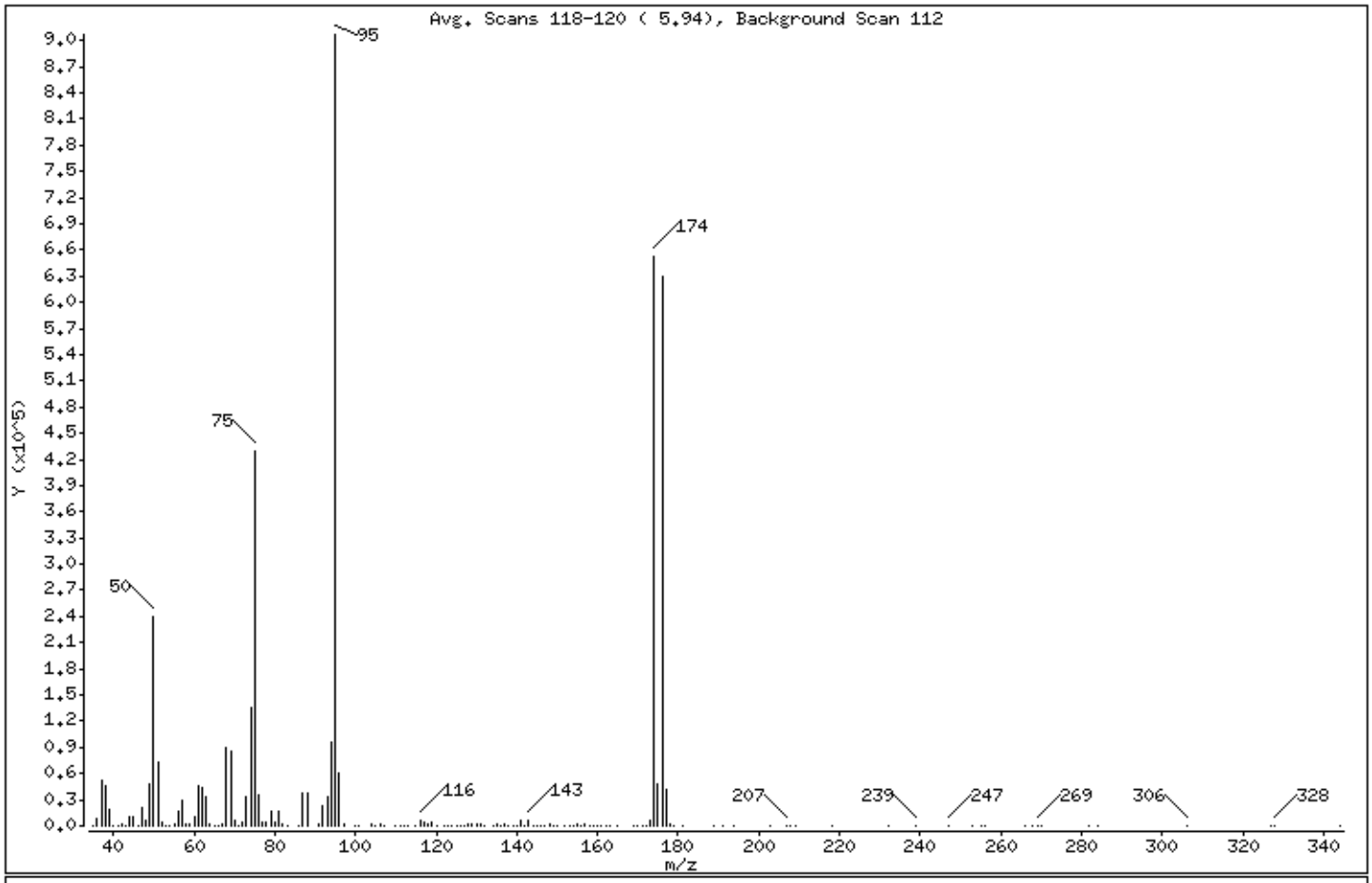
Volume Injected (uL): 1.0

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	26.42
75	30.00 - 60.00% of mass 95	47.25
96	5.00 - 9.00% of mass 95	6.73
173	Less than 2.00% of mass 174	0.61 (0.85)
174	50.00 - 100.00% of mass 95	71.95
175	5.00 - 9.00% of mass 174	5.24 (7.28)
176	95.00 - 101.00% of mass 174	69.32 (96.34)
177	5.00 - 9.00% of mass 176	4.57 (6.59)

Date : 24-MAY-2007 08:56

Client ID: BFB Instrument: msdz.i

Sample Info: 2uL #843-2915;BFB Tune Check

Volume Injected (uL): 1.0 Operator: ej

Column phase: Column diameter: 2.00

Data File: z052401.d
Spectrum: Avg. Scans 118-120 (5.94), Background Scan 112
Location of Maximum: 95.00
Number of points: 152

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.00	193	74.00	134720	125.00	228	170.00	211
36.00	8870	75.00	428416	126.00	413	171.00	164
37.00	51880	76.00	35944	127.00	289	172.00	841
38.00	46584	77.00	4808	128.00	2798	173.00	5546
39.00	18808	78.00	3385	129.00	1397	174.00	652352
40.00	350	79.00	16097	130.00	2669	175.00	47488
41.00	363	80.00	4631	131.00	2468	176.00	628480
42.00	1226	81.00	16704	132.00	303	177.00	41416
43.00	565	82.00	3112	134.00	141	178.00	1203
44.00	11203	83.00	471	135.00	1077	179.00	60
45.00	9875	86.00	794	136.00	215	181.00	54
46.00	505	87.00	37192	137.00	1227	189.00	59
47.00	20136	88.00	36984	138.00	59	191.00	369
48.00	6725	91.00	2424	139.00	300	194.00	14
49.00	47456	92.00	22392	140.00	420	203.00	55
50.00	239488	93.00	33184	141.00	6313	207.00	875
51.00	72688	94.00	95488	142.00	793	208.00	176
52.00	3347	95.00	906752	143.00	6542	209.00	323
53.00	111	96.00	60984	144.00	422	218.00	59
54.00	57	97.00	1824	145.00	521	232.00	83
55.00	2457	100.00	713	146.00	814	239.00	120
56.00	15896	101.00	65	147.00	634	247.00	133
57.00	28712	104.00	3013	148.00	1732	253.00	20
58.00	1807	105.00	934	149.00	804	255.00	68
59.00	2263	106.00	2628	150.00	845	256.00	56
60.00	9542	107.00	841	152.00	402	266.00	72
61.00	46320	110.00	377	153.00	491	268.00	54
62.00	44296	111.00	566	154.00	394	269.00	379
63.00	33088	112.00	443	155.00	1898	270.00	73
64.00	2905	113.00	532	156.00	240	282.00	2
65.00	394	115.00	640	157.00	1219	284.00	183
66.00	179	116.00	7212	158.00	130	306.00	116
67.00	2333	117.00	4329	159.00	770	327.00	16
68.00	88640	118.00	2535	160.00	51	328.00	55
69.00	84912	119.00	3667	161.00	891	344.00	48

Date : 24-MAY-2007 08:56

Client ID: BFB Instrument: msdz.i

Sample Info: 2uL #843-2915;BFB Tune Check

Volume Injected (uL): 1.0 Operator: ej

Column phase: Column diameter: 2.00

Data File: z052401.d
Spectrum: Avg. Scans 118-120 (5.94), Background Scan 112
Location of Maximum: 95.00
Number of points: 152

m/z	Y	m/z	Y	m/z	Y	m/z	Y
70.00	6315	120.00	210	162.00	73		
71.00	352	122.00	233	163.00	111		
72.00	4949	123.00	175	165.00	38		
73.00	34304	124.00	383	169.00	68		

Shipping/ Receiving Documents

AN ENVIRONMENTAL ANALYTICAL LABORATORY

180 Blue Ravine Road, Suite B
Folsom, CA 95630

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

COMPANY: GEI Consultants, Inc.
ATTENTION: Ms. Sarah Aldridge
FAX #: 860-368-5307
FROM: Sample Receiving
Workorder #: 0705332
# of pages (Including Cover): 1

5/31/2007

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

The following discrepancies have been observed:

We have found a discrepancy between the Chain of Custody (COC) and the sample tags. The samples labeled BS051007AMS01DW and BS051007AMS04UW on the COC are labeled as 051007AMS01DW and 051007AMS on the sample tags. ATL will report the sample identifications on the COC unless otherwise notified.

The Chain of Custody (COC) was not completed properly. Please note for future reference that the COC must be signed and dated in order to properly relinquish or receive samples.

Your prompt response is appreciated.

Air Toxics LTD.

CHAIN-OF-CUSTODY RECORD

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

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

Page 1 of 1

Project Manager: Brian McCarthy
Collected by: (Print and Sign) Brian Manning Brian Manning
Company: GEI Consultants Email:
Address: 455 Winding Brook Dr. City: Glastonbury State: CT Zip: 06033
Phone: 860-368-5394 Fax:

Project Info:
P.O. #:
Project #: 0C1140-8-1703
Project Name: Bay Shore Barrier wall installation

Turn Around Time: ☒ Normal ☐ Rush ___ specify

Lab Use Only: Pressurized by: VKP Date: 5/16/07
Pressurization Gas: (N2) He

Lab I.D.	Field Sample I.D. (Location)	Can #	Date of Collection	Time of Collection	Analyses Requested	Canister Pressure/Vacuum Initial	Final	Receipt	Final (psi)
	~~BSO51OO7AH5O1 DW~~	~~35286~~	~~5/10/07~~	~~7:30/~~	~~TO-15; Naphthalene~~	~~29~~			
	ok ~~BSO51OO7AH3O4 UW~~	~~35988~~	~~5/10/07~~	~~7:45/~~	~~TO-15; Naphthalene~~	~~30~~			
01A	BSO51OO7AH5O1 DW	35286	5/10/07	9:00/5:00	TO-15; Naphthalene	29	3.5	3.0"Hg	5.0 psi
02A	BSO51OO7AH3O4 UW	35988	5/10/07	7:45/3:45	TO-15; Naphthalene	30	9	5.5"Hg	↓

Relinquished by: (signature) Date/Time	Received by: (signature) Date/Time	Notes:
Brian Manning 5/16 5:15	Monica Gagen ATL 5/16/07 1020	

Lab Use Only	Shipper Name	Air Bill #	Temp (°C)	Condition	Custody Seals Intact?	Work Order #
	FedEx	8595 2431 9089	NA	Good	Yes No (None)	0705332

Form 1293 rev.11

AN ENVIRONMENTAL ANALYTICAL LABORATORY

SAMPLE RECEIPT SUMMARY

WORKORDER 0705332

Client

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

Phone

860-368-5300

Fax

860-368-5307

Sales Rep: ANS

Date Promised: 05/29/07
Date Completed: 5/25/07
Date Received: 5/14/07
PO#: NR
Project#: 061140-8-1703 BayShore Barrier wall installation
Total $: $ 624.00
Logged By: AS

Fraction	Sample #	Analysis	Collected	Receipt Vac./Pres.	Amount$
01A	BS051007AMS01 DW	Modified TO-15	5/10/2007	3.0 "Hg	$225.00
01AA	BS051007AMS01 DW Lab Duplicate	Modified TO-15	5/10/2007	3.0 "Hg	$0.00
02A	BS051007AMS04 UW	Modified TO-15	5/10/2007	5.5 "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.	$100.00
	Blue Body Flow Controller (2) @ $35.00 each.	$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. Sarah Aldridge
GEI Consultants, Inc.
455 Winding Brook Dr. Suite 201
Glastonbury, CT 06033

Analysis Code: TO-14A

TERMS:

Reporting Method: Modified TO-15 + Naph

Sample Discrepancy Report

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

Initiated By: AS Date: 5/15 Given To: AS ☐ File to folder

Sections I – II/III/IV must be filled out by person initiating this Sample Discrepancy Report

I. Workorder(s) affected: 0705332

Sample(s) affected: all

II. Sample Receipt Discrepancies (*Document on Cover Page of Sample Receipt Confirmation and in Receiving Notes of Lab Narrative*)

- ☒ COC improperly relinquished / received.
- ☐ COC was not filled out in ink.
- ☒ Sample tags / labels do not match the COC.
- ☐ Samples received at wrong temperature (≠ 4±2 °C); ice / blue ice (circle one) was present. A temp. blank was / was *not* present (circle one).
- ☐ Sample container (Tube/VOA vial) was received broken, *however* sample was intact.
- ☐ Flow controller used - canister samples received at ambient or under pressure.
- ☐ No brass cap on canister (*do not narrate*).
- ☐ VOA vial for RSK-175 analysis received with headspace bubble <5mm (*do not narrate*).
- ☐ Other (describe below).

Describe the Discrepancy: No year for relinquished.
tag: 01A: 051007AMS01DW
02A: 051007AMS

Initials: _____ **Date:** _____

III. Sample Receipt Discrepancies requiring CSR notification (*document on Cover Page of Sample Receipt Confirmation and in Receiving Notes of Lab Narrative*)

- ☐ COC was not received with samples.
- ☐ Analysis method(s) is not specified / incorrectly specified (circle one) on the COC.
- ☐ Number of samples on the COC does not match the number of samples that were received.
- ☐ Samples were received expired.
- ☐ Sampling date / time is not documented for *some* / *any* samples (circle one).
- ☐ Sample received with discernable volume of H_2O in the Tedlar Bag.
- ☐ Sample container (Tube/VOA vial/DNPH Bottle, etc.) was received broken / leaking (circle one).
- ☐ VOA vial for RSK-175 analysis received with headspace bubble >5mm.
- ☐ Samples for RSK-175 CO_2 analysis received preserved with HCl.
- ☐ Tedlar Bag received leaking / flat (circle one). Sample can / cannot (circle one) be analyzed.
- ☐ Canister leaked to ambient during pressurization.
- ☐ Tedlar bag / canister received emitting a strong odor; sample can / cannot (circle one) be analyzed.
- ☐ Canister sample received with a vacuum difference >7.0"Hg between the receipt vac. and the final vac. reported on the COC, indicating loss of vacuum.
- ☐ Canister sample received at >15"Hg (*not* identified as a Trip/Field Blank).
- ☐ Trip Blank received at low vacuum (< 25"Hg).
- ☐ Tedlar Bag for Sulfur analysis has metal fitting.
- ☐ Incorrect sampling media / container for analysis requested.
- ☐ Custody Seal on the outside of the container was broken / improperly placed (circle one).
- ☐ Other (describe below).

Describe the Discrepancy: _____

Initials: _____ **Date:** _____

Other Records

DILUTION FACTORS

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

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

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

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

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

DILUTION FACTORS

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

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

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

Compound Listing

Modified TO-15 + Naph

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

Compound Listing

Modified TO-15 + Naph

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

@Air Toxics Ltd.

DATA REVIEW CHECKLIST

Work Order #: 0705332

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	☐	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 (14 day)
	☑	☐	☐	☐	Appropriate data qualifier flags are applied
NA	NA	☑	☐	☐	Manual integrations for samples and QC are properly documented
☑	☑	☐		☐	Samples analyzed within the project or method specific clock (24hr)
	☑	☐			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
NA	☐	☐	☐		Checked samples for trends (i.e. Influent>Effluent, Landfill or Ambient etc)
	☐		☐		Special units for all samples in the final report are correctly calculated
	☐	☐	☐		Manually entered results checked (i.e. special CCV compounds)
	☑	☐	☐		TPH/NMOC (verify calculations and correct reference compound used)
	☑				Chain of Custody scanned correctly
				☐	Verify sample id's vs. chain of custody
☑	☑				Samples pressurized w/ appropriate gas (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		NA		Extra printed copies are provided per client profile
	☑		☑		Final invoice amount correct (adjusted for TAT, Penalties, Re-issue Charges etc.)
	NA	☐	NA	☐	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: Fr11 ↓ in CCV & LCS ǫ int
Dup on 01A
Strict 14day hold

M/Q:

A (Analytical Review/Date)	R/T (Reporting Review/Date)	M (Management Review/Date)	Q (QA Review/Date)
WA 5/20/07	R: EJA/KAB 5-25-07	ML 5/25/07	
	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