AIR TOXICS LTD.

SAMPLE NAME: VE04-INN-025-001 Duplicate

ID#: 0311183-01AA

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	b111220	Date of Collection:	11/11/03
Dil. Factor:	2.00	Date of Analysis:	11/12/03 04:53 PM

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Cumene	1.0	5.0	Not Detected	Not Detected
Propylbenzene	1.0	5.0	Not Detected	Not Detected
Chloromethane	4.0	8.4	Not Detected	Not Detected
1,2,4-Trichlorobenzene	4.0	30	Not Detected	Not Detected
Hexachlorobutadiene	4.0	43	Not Detected	Not Detected
Acetone	4.0	9.6	88	210
Carbon Disulfide	4.0	13	Not Detected	Not Detected
2-Propanol	4.0	10	13	32
trans-1,2-Dichloroethene	4.0	16	Not Detected	Not Detected
Vinyl Acetate	4.0	14	Not Detected	Not Detected
2-Butanone (Methyl Ethyl Ketone)	4.0	12	37	110
Tetrahydrofuran	4.0	12	Not Detected	Not Detected
1,4-Dioxane	4.0	15	Not Detected	Not Detected
4-Methyl-2-pentanone	4.0	17	Not Detected	Not Detected
2-Hexanone	4.0	17	Not Detected	Not Detected
Bromoform	4.0	42	Not Detected	Not Detected
4-Ethyltoluene	4.0	20	Not Detected	Not Detected
Methyl tert-butyl ether	4.0	15	Not Detected	Not Detected
Ethanol	4.0	7.7	Not Detected	Not Detected

Container Type: 1 Liter Tedlar Bag

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	100	70-130
Toluene-d8	102	70-130
4-Bromofluorobenzene	101	70-130

AIR TOXICS LTD.

SAMPLE NAME: VE04-EFF-025-002

ID#: 0311183-02A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	b111218	Date of Collection:	11/11/03
Dil. Factor:	1.00	Date of Analysis:	11/12/03 03:44 PM

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Freon 12	0.50	2.5	16	83
Freon 114	0.50	3.6	Not Detected	Not Detected
Vinyl Chloride	0.50	1.3	Not Detected	Not Detected
Bromomethane	0.50	2.0	Not Detected	Not Detected
Chloroethane	0.50	1.3	27	73
Freon 11	0.50	2.8	100	570
1,1-Dichloroethene	0.50	2.0	5.4	22
Freon 113	0.50	3.9	110	830
Methylene Chloride	0.50	1.8	2.4	8.4
1,1-Dichloroethane	0.50	2.0	2.0	8.1
cis-1,2-Dichloroethene	0.50	2.0	Not Detected	Not Detected
Chloroform	0.50	2.5	3.0	15
1,1,1-Trichloroethane	0.50	2.8	Not Detected	Not Detected
Carbon Tetrachloride	0.50	3.2	0.87	5.6
Benzene	0.50	1.6	Not Detected	Not Detected
1,2-Dichloroethane	0.50	2.0	0.52	2.1
Trichloroethene	0.50	2.7	Not Detected	Not Detected
1,2-Dichloropropane	0.50	2.3	Not Detected	Not Detected
cis-1,3-Dichloropropene	0.50	2.3	Not Detected	Not Detected
Toluene	0.50	1.9	1.7	6.5
trans-1,3-Dichloropropene	0.50	2.3	Not Detected	Not Detected
1,1,2-Trichloroethane	0.50	2.8	Not Detected	Not Detected
Tetrachloroethene	0.50	3.4	Not Detected	Not Detected
1,2-Dibromoethane (EDB)	0.50	3.9	Not Detected	Not Detected
Chlorobenzene	0.50	2.3	Not Detected	Not Detected
Ethyl Benzene	0.50	2.2	Not Detected	Not Detected
m,p-Xylene	0.50	2.2	Not Detected	Not Detected
o-Xylene	0.50	2.2	Not Detected	Not Detected
Styrene	0.50	2.2	Not Detected	Not Detected
1,1,2,2-Tetrachloroethane	0.50	3.5	Not Detected	Not Detected
1,3,5-Trimethylbenzene	0.50	2.5	Not Detected	Not Detected
1,2,4-Trimethylbenzene	0.50	2.5	Not Detected	Not Detected
1,3-Dichlorobenzene	0.50	3.0	Not Detected	Not Detected
1,4-Dichlorobenzene	0.50	3.0	Not Detected	Not Detected
alpha-Chlorotoluene	0.50	2.6	Not Detected	Not Detected
1,2-Dichlorobenzene	0.50	3.0	Not Detected	Not Detected
1,3-Butadiene	0.50	1.1	Not Detected	Not Detected
Hexane	0.50	1.8	Not Detected	Not Detected
Cyclohexane	0.50	1.7	Not Detected	Not Detected
Heptane	0.50	2.1	2.3	9.4
Bromodichloromethane	0.50	3.4	Not Detected	Not Detected
Dibromochloromethane	0.50	4.3	Not Detected	Not Detected

AIR TOXICS LTD.

SAMPLE NAME: VE04-EFF-025-002

ID#: 0311183-02A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	b111218	Date of Collection:	11/11/03
Dil. Factor:	1.00	Date of Analysis:	11/12/03 03:44 PM

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Cumene	0.50	2.5	Not Detected	Not Detected
Propylbenzene	0.50	2.5	Not Detected	Not Detected
Chloromethane	2.0	4.2	Not Detected	Not Detected
1,2,4-Trichlorobenzene	2.0	15	Not Detected	Not Detected
Hexachlorobutadiene	2.0	22	Not Detected	Not Detected
Acetone	2.0	4.8	150	370
Carbon Disulfide	2.0	6.3	2.2	7.0
2-Propanol	2.0	5.0	15	38
trans-1,2-Dichloroethene	2.0	8.0	Not Detected	Not Detected
Vinyl Acetate	2.0	7.2	Not Detected	Not Detected
2-Butanone (Methyl Ethyl Ketone)	2.0	6.0	78	230
Tetrahydrofuran	2.0	6.0	Not Detected	Not Detected
1,4-Dioxane	2.0	7.3	Not Detected	Not Detected
4-Methyl-2-pentanone	2.0	8.3	2.0	8.5
2-Hexanone	2.0	8.3	4.8	20
Bromoform	2.0	21	Not Detected	Not Detected
4-Ethyltoluene	2.0	10	Not Detected	Not Detected
Methyl tert-butyl ether	2.0	7.3	Not Detected	Not Detected
Ethanol	2.0	3.8	21	40

Container Type: 1 Liter Tedlar Bag

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	112	70-130
Toluene-d8	105	70-130
4-Bromofluorobenzene	98	70-130

AIR TOXICS LTD.

SAMPLE NAME: Lab Blank

ID#: 0311183-03A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	b111208	Date of Collection: NA	
Dil. Factor:	1.00	Date of Analysis: 11/12/03 09:52 AM	

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Freon 12	0.50	2.5	Not Detected	Not Detected
Freon 114	0.50	3.6	Not Detected	Not Detected
Vinyl Chloride	0.50	1.3	Not Detected	Not Detected
Bromomethane	0.50	2.0	Not Detected	Not Detected
Chloroethane	0.50	1.3	Not Detected	Not Detected
Freon 11	0.50	2.8	Not Detected	Not Detected
1,1-Dichloroethene	0.50	2.0	Not Detected	Not Detected
Freon 113	0.50	3.9	Not Detected	Not Detected
Methylene Chloride	0.50	1.8	Not Detected	Not Detected
1,1-Dichloroethane	0.50	2.0	Not Detected	Not Detected
cis-1,2-Dichloroethene	0.50	2.0	Not Detected	Not Detected
Chloroform	0.50	2.5	Not Detected	Not Detected
1,1,1-Trichloroethane	0.50	2.8	Not Detected	Not Detected
Carbon Tetrachloride	0.50	3.2	Not Detected	Not Detected
Benzene	0.50	1.6	Not Detected	Not Detected
1,2-Dichloroethane	0.50	2.0	Not Detected	Not Detected
Trichloroethene	0.50	2.7	Not Detected	Not Detected
1,2-Dichloropropane	0.50	2.3	Not Detected	Not Detected
cis-1,3-Dichloropropene	0.50	2.3	Not Detected	Not Detected
Toluene	0.50	1.9	Not Detected	Not Detected
trans-1,3-Dichloropropene	0.50	2.3	Not Detected	Not Detected
1,1,2-Trichloroethane	0.50	2.8	Not Detected	Not Detected
Tetrachloroethene	0.50	3.4	Not Detected	Not Detected
1,2-Dibromoethane (EDB)	0.50	3.9	Not Detected	Not Detected
Chlorobenzene	0.50	2.3	Not Detected	Not Detected
Ethyl Benzene	0.50	2.2	Not Detected	Not Detected
m,p-Xylene	0.50	2.2	Not Detected	Not Detected
o-Xylene	0.50	2.2	Not Detected	Not Detected
Styrene	0.50	2.2	Not Detected	Not Detected
1,1,2,2-Tetrachloroethane	0.50	3.5	Not Detected	Not Detected
1,3,5-Trimethylbenzene	0.50	2.5	Not Detected	Not Detected
1,2,4-Trimethylbenzene	0.50	2.5	Not Detected	Not Detected
1,3-Dichlorobenzene	0.50	3.0	Not Detected	Not Detected
1,4-Dichlorobenzene	0.50	3.0	Not Detected	Not Detected
alpha-Chlorotoluene	0.50	2.6	Not Detected	Not Detected
1,2-Dichlorobenzene	0.50	3.0	Not Detected	Not Detected
1,3-Butadiene	0.50	1.1	Not Detected	Not Detected
Hexane	0.50	1.8	Not Detected	Not Detected
Cyclohexane	0.50	1.7	Not Detected	Not Detected
Heptane	0.50	2.1	Not Detected	Not Detected
Bromodichloromethane	0.50	3.4	Not Detected	Not Detected
Dibromochloromethane	0.50	4.3	Not Detected	Not Detected

AIR TOXICS LTD.

SAMPLE NAME: Lab Blank

ID#: 0311183-03A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	b111208	Date of Collection: NA	
Dil. Factor:	1.00	Date of Analysis: 11/12/03 09:52 AM	

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Cumene	0.50	2.5	Not Detected	Not Detected
Propylbenzene	0.50	2.5	Not Detected	Not Detected
Chloromethane	2.0	4.2	Not Detected	Not Detected
1,2,4-Trichlorobenzene	2.0	15	Not Detected	Not Detected
Hexachlorobutadiene	2.0	22	Not Detected	Not Detected
Acetone	2.0	4.8	Not Detected	Not Detected
Carbon Disulfide	2.0	6.3	Not Detected	Not Detected
2-Propanol	2.0	5.0	Not Detected	Not Detected
trans-1,2-Dichloroethene	2.0	8.0	Not Detected	Not Detected
Vinyl Acetate	2.0	7.2	Not Detected	Not Detected
2-Butanone (Methyl Ethyl Ketone)	2.0	6.0	Not Detected	Not Detected
Tetrahydrofuran	2.0	6.0	Not Detected	Not Detected
1,4-Dioxane	2.0	7.3	Not Detected	Not Detected
4-Methyl-2-pentanone	2.0	8.3	Not Detected	Not Detected
2-Hexanone	2.0	8.3	Not Detected	Not Detected
Bromoform	2.0	21	Not Detected	Not Detected
4-Ethyltoluene	2.0	10	Not Detected	Not Detected
Methyl tert-butyl ether	2.0	7.3	Not Detected	Not Detected
Ethanol	2.0	3.8	Not Detected	Not Detected

Container Type: NA - Not Applicable

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

AIR TOXICS LTD.

SAMPLE NAME: CCV

ID#: 0311183-04A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	b111203	Date of Collection: NA	
Dil. Factor:	1.00	Date of Analysis: 11/12/03 06:51 AM	

Compound	%Recovery
Freon 12	104
Freon 114	110
Vinyl Chloride	112
Bromomethane	109
Chloroethane	110
Freon 11	101
1,1-Dichloroethene	99
Freon 113	102
Methylene Chloride	96
1,1-Dichloroethane	101
cis-1,2-Dichloroethene	101
Chloroform	97
1,1,1-Trichloroethane	97
Carbon Tetrachloride	102
Benzene	102
1,2-Dichloroethane	100
Trichloroethene	103
1,2-Dichloropropane	107
cis-1,3-Dichloropropene	102
Toluene	103
trans-1,3-Dichloropropene	97
1,1,2-Trichloroethane	100
Tetrachloroethene	102
1,2-Dibromoethane (EDB)	102
Chlorobenzene	99
Ethyl Benzene	97
m,p-Xylene	100
o-Xylene	99
Styrene	98
1,1,2,2-Tetrachloroethane	92
1,3,5-Trimethylbenzene	104
1,2,4-Trimethylbenzene	95
1,3-Dichlorobenzene	93
1,4-Dichlorobenzene	92
alpha-Chlorotoluene	95
1,2-Dichlorobenzene	93
1,3-Butadiene	102
Hexane	102
Cyclohexane	101
Heptane	103
Bromodichloromethane	105
Dibromochloromethane	107

AIR TOXICS LTD.

SAMPLE NAME: CCV

ID#: 0311183-04A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	b111203	Date of Collection: NA	
Dil. Factor:	1.00	Date of Analysis: 11/12/03 06:51 AM	

Compound	%Recovery
Cumene	100
Propylbenzene	107
Chloromethane	106
1,2,4-Trichlorobenzene	100
Hexachlorobutadiene	98
Acetone	99
Carbon Disulfide	102
2-Propanol	101
trans-1,2-Dichloroethene	102
Vinyl Acetate	100
2-Butanone (Methyl Ethyl Ketone)	101
Tetrahydrofuran	98
1,4-Dioxane	105
4-Methyl-2-pentanone	101
2-Hexanone	100
Bromoform	103
4-Ethyltoluene	118
Methyl tert-butyl ether	97
Ethanol	112

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	95	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	97	70-130

AIR TOXICS LTD.

SAMPLE NAME: LCS

ID#: 0311183-05A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	b111205	Date of Collection: NA	
Dil. Factor:	1.00	Date of Analysis: 11/12/03 08:05 AM	

Compound	%Recovery
Freon 12	94
Freon 114	104
Vinyl Chloride	103
Bromomethane	99
Chloroethane	101
Freon 11	85
1,1-Dichloroethene	79
Freon 113	81
Methylene Chloride	78
1,1-Dichloroethane	77
cis-1,2-Dichloroethene	83
Chloroform	74
1,1,1-Trichloroethane	74
Carbon Tetrachloride	83
Benzene	87
1,2-Dichloroethane	81
Trichloroethene	80
1,2-Dichloropropane	83
cis-1,3-Dichloropropene	79
Toluene	87
trans-1,3-Dichloropropene	80
1,1,2-Trichloroethane	82
Tetrachloroethene	85
1,2-Dibromoethane (EDB)	75
Chlorobenzene	82
Ethyl Benzene	85
m,p-Xylene	88
o-Xylene	83
Styrene	83
1,1,2,2-Tetrachloroethane	75
1,3,5-Trimethylbenzene	83
1,2,4-Trimethylbenzene	76
1,3-Dichlorobenzene	77
1,4-Dichlorobenzene	74
alpha-Chlorotoluene	90
1,2-Dichlorobenzene	78
1,3-Butadiene	87
Hexane	78
Cyclohexane	77
Heptane	73
Bromodichloromethane	72
Dibromochloromethane	75

AIR TOXICS LTD.

SAMPLE NAME: LCS

ID#: 0311183-05A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	**b111205**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 11/12/03 08:05 AM**	

Compound	%Recovery
Cumene	84
Propylbenzene	66
Chloromethane	94
1,2,4-Trichlorobenzene	89
Hexachlorobutadiene	87
Acetone	76
Carbon Disulfide	80
2-Propanol	80
trans-1,2-Dichloroethene	83
Vinyl Acetate	77
2-Butanone (Methyl Ethyl Ketone)	77
Tetrahydrofuran	75
1,4-Dioxane	82
4-Methyl-2-pentanone	75
2-Hexanone	70
Bromoform	58 Q
4-Ethyltoluene	76
Methyl tert-butyl ether	75
Ethanol	90

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

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

AIR TOXICS LTD.

SAMPLE NAME: LCSD

ID#: 0311183-05AA

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	b111206	Date of Collection: NA	
Dil. Factor:	1.00	Date of Analysis: 11/12/03 08:39 AM	

Compound	%Recovery
Freon 12	91
Freon 114	105
Vinyl Chloride	98
Bromomethane	97
Chloroethane	104
Freon 11	85
1,1-Dichloroethene	80
Freon 113	83
Methylene Chloride	79
1,1-Dichloroethane	78
cis-1,2-Dichloroethene	86
Chloroform	76
1,1,1-Trichloroethane	75
Carbon Tetrachloride	83
Benzene	87
1,2-Dichloroethane	82
Trichloroethene	82
1,2-Dichloropropane	85
cis-1,3-Dichloropropene	79
Toluene	88
trans-1,3-Dichloropropene	79
1,1,2-Trichloroethane	84
Tetrachloroethene	85
1,2-Dibromoethane (EDB)	75
Chlorobenzene	82
Ethyl Benzene	87
m,p-Xylene	85
o-Xylene	83
Styrene	83
1,1,2,2-Tetrachloroethane	72
1,3,5-Trimethylbenzene	80
1,2,4-Trimethylbenzene	70
1,3-Dichlorobenzene	69 Q
1,4-Dichlorobenzene	65 Q
alpha-Chlorotoluene	79
1,2-Dichlorobenzene	67 Q
1,3-Butadiene	88
Hexane	80
Cyclohexane	78
Heptane	76
Bromodichloromethane	73
Dibromochloromethane	75

AIR TOXICS LTD.

SAMPLE NAME: LCSD

ID#: 0311183-05AA

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	b111206	Date of Collection: NA	
Dil. Factor:	1.00	Date of Analysis: 11/12/03 08:39 AM	

Compound	%Recovery
Cumene	83
Propylbenzene	64
Chloromethane	93
1,2,4-Trichlorobenzene	80
Hexachlorobutadiene	84
Acetone	78
Carbon Disulfide	79
2-Propanol	80
trans-1,2-Dichloroethene	86
Vinyl Acetate	78
2-Butanone (Methyl Ethyl Ketone)	79
Tetrahydrofuran	76
1,4-Dioxane	83
4-Methyl-2-pentanone	76
2-Hexanone	70
Bromoform	57 Q
4-Ethyltoluene	72
Methyl tert-butyl ether	74
Ethanol	91

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

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

AIR TOXICS LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

WORK ORDER #: 0311448

Work Order Summary

CLIENT:	Mr. Sree Akkenapally Geofon 22632 Golden Springs Dr. Suite 270 Diamond Bar, CA 91765	**BILL TO:**	Mr. Sree Akkenapally Geofon 22632 Golden Springs Dr. Suite 270 Diamond Bar, CA 91765
PHONE:	909-396-7662	**P.O. #**	
FAX:	909-396-1455	**PROJECT #**	04-4428.10 JPL #2
DATE RECEIVED:	11/25/03	**CONTACT:**	Kelly Buettner
DATE COMPLETED:	12/11/03		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.
01A	VE04-INN-027-001	Modified TO-14A	Tedlar Bag
01AA	VE04-INN-027-001 Duplicate	Modified TO-14A	Tedlar Bag
02A	VE04-EFF-027-002	Modified TO-14A	Tedlar Bag
03A	Lab Blank	Modified TO-14A	NA
04A	CCV	Modified TO-14A	NA
05A	LCS	Modified TO-14A	NA
05AA	LCSD	Modified TO-14A	NA

CERTIFIED BY: Linda L. Freeman

Laboratory Director

DATE: 12/11/03

Certfication numbers: AR DEQ - 03-084-0, 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: 07/01/03, Expiration date: 06/30/04
Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

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LABORATORY NARRATIVE
Modified TO-14A
Geofon
Workorder# 0311448

Two 1 Liter Tedlar Bag samples were received on November 25, 2003. The laboratory performed analysis via modified EPA Method TO-14A using GC/MS in the full scan mode. The method involves concentrating up to 0.5 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. See the data sheets for the reporting limits for each compound.

Method modifications taken to run these samples include:

Requirement	*TO-14A*	*ATL Modifications*
Continuing Calibration criteria	</= 30% Difference	</= 30% Difference with two allowed out to </= 40% Difference; flag and narrate outliers
Initial Calibration criteria	RSD<30%	RSD</=30%, two compounds allowed up to 40%.
Moisture control	Nafion Dryer	Multisorbent trap
Blank acceptance criteria	<0.20 ppbv	<Reporting Limit
Primary ions for Quantification	Freon 114: 85, Carbon Tetrachloride: 117, Trichloroethene: 130, Ethyl Benzene, m,p- and o-Xylene: 91	Freon 114: 135, Carbon Tetrachloride: 119, Trichloroethene: 95, Ethyl Benzene, m,p- and o-Xylene: 106
Dilutions for Initial Calibration	Dynamic dilutions or static using canisters	Syringe dilutions
BFB absolute abundance criteria	Within 10% of that from previous day.	CCV internal standard area counts are compared to ICAL, corrective action for > 40% D
Sample Load Volume	400 mL	Varied to 200 mL

Receiving Notes

The Tedlar bag for sample VE04-EFF-027-002 was leaking upon arrival. The client was notified and the analysis proceeded on a rush basis.

Analytical Notes

There were no analytical discrepancies.

Definition of Data Qualifying Flags

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

B - Compound present in laboratory blank greater than reporting limit (background subtraction no performed).

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

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

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

GEOFON INCORPORATED

22632 GOLDEN SPRINGS DR., SUITE 270
DIAMOND BAR, CA 91765 • (909) 396-7662 • FAX (909) 396-1455

CHAIN-OF-CUSTODY RECORD

LABORATORY COPY

0311448

GEOFON LAB COORDINATOR: J. ROBINSON	LAB COORDINATOR'S PHONE: 909-396-7662	LAB COORDINATOR'S FAX: 909-396-1455	LABORATORY SERVICE ID: AIR TOXICS	LABORATORY CONTACT: JENNIFER MILLER	MAIL REPORT (COMPANY NAME): GEOFON INC
PROJECT NAME: SPL #2	PROJECT LOCATION: SPL-VB04	PROJECT NUMBER: 04-4428-10	LABORATORY PHONE: 916-985-1000	LABORATORY FAX: 916-985-1020	RECIPIENT NAME: J. ROBINSON
PROJECT CONTACT: T. ROBINSON	PROJECT PHONE NUMBER: 714-920-8438	PROJECT FAX: N/A	LABORATORY ADDRESS: 180 BLUE RAVINE ROAD #B		ADDRESS: 22632 GOLDEN SPRINGS DR #270
PROJECT ADDRESS: 4800 OAK GROVE DR	CITY, STATE AND ZIPCODE: PASADENA CA 91108	CLIENT: US NAVY SWDIV	CITY, STATE AND ZIPCODE: FOLSUM CA 95630		CITY, STATE AND ZIPCODE: DIAMOND BAR CA 91765
PROJECT MANAGER: ASRAR FAHEEM	PROJECT MANAGER'S PHONE: 909-396-7662	PROJECT MANAGER'S FAX: 909-396-1455			

Item	Sample Identifier	Matrix	Date	Time	Preserved	# of Cont.	QC Level	T.A.T.	Analyses: TO-14								Comments
01A 1	VB04-INN-027-001	AIR	11/24/03	1115	NONE	1*	3	NORM	X								1* L TEDLAR BAG SCREEN INFLUENT
02A 2	VB04-EFF-027-002	AIR	11/24/03	1120	NONE	1*	3	NORM	X								SCREEN
3																	
4																	
5																	
6																	
7																	
8																	
9																	
10																	

SAMPLES COLLECTED BY	COURIER AND AIR BILL NUMBER	COOLER TEMPERATURE UPON RECEIPT
[signature]	FED EX - 8385-7521-7031	

RELINQUISHED BY	RECEIVED BY	DATE	TIME	SAMPLE CONDITION UPON RECEIPT
[signature]	Lauren Thomas AL	11/26/03	950	Good

CUSTODY SEAL INTACT?
Y N NONE TEMP ____

Distribution: White - Laboratory (To be returned with Analytical Report); Goldenrod - Project File; Yellow - Project Data Manager

AIR TOXICS LTD.

SAMPLE NAME: VE04-INN-027-001

ID#: 0311448-01A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	b112510	Date of Collection:	11/24/03
Dil. Factor:	2.00	Date of Analysis:	11/25/03 07:16 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	1.0	14	5.0	72
Freon 114	1.0	Not Detected	7.1	Not Detected
Vinyl Chloride	1.0	Not Detected	2.6	Not Detected
Bromomethane	1.0	Not Detected	3.9	Not Detected
Chloroethane	1.0	Not Detected	2.7	Not Detected
Freon 11	1.0	44	5.7	250
1,1-Dichloroethene	1.0	5.9	4.0	24
Freon 113	1.0	25	7.8	190
Methylene Chloride	1.0	Not Detected	3.5	Not Detected
1,1-Dichloroethane	1.0	Not Detected	4.1	Not Detected
cis-1,2-Dichloroethene	1.0	1.1	4.0	4.4
Chloroform	1.0	41	5.0	200
1,1,1-Trichloroethane	1.0	2.5	5.5	14
Carbon Tetrachloride	1.0	34	6.4	220
Benzene	1.0	Not Detected	3.2	Not Detected
1,2-Dichloroethane	1.0	Not Detected	4.1	Not Detected
Trichloroethene	1.0	220	5.5	1200
1,2-Dichloropropane	1.0	Not Detected	4.7	Not Detected
cis-1,3-Dichloropropene	1.0	Not Detected	4.6	Not Detected
Toluene	1.0	1.8	3.8	6.8
trans-1,3-Dichloropropene	1.0	Not Detected	4.6	Not Detected
1,1,2-Trichloroethane	1.0	Not Detected	5.5	Not Detected
Tetrachloroethene	1.0	15	6.9	100
1,2-Dibromoethane (EDB)	1.0	Not Detected	7.8	Not Detected
Chlorobenzene	1.0	Not Detected	4.7	Not Detected
Ethyl Benzene	1.0	Not Detected	4.4	Not Detected
m,p-Xylene	1.0	Not Detected	4.4	Not Detected
o-Xylene	1.0	Not Detected	4.4	Not Detected
Styrene	1.0	Not Detected	4.3	Not Detected
1,1,2,2-Tetrachloroethane	1.0	Not Detected	7.0	Not Detected
1,3,5-Trimethylbenzene	1.0	Not Detected	5.0	Not Detected
1,2,4-Trimethylbenzene	1.0	Not Detected	5.0	Not Detected
1,3-Dichlorobenzene	1.0	Not Detected	6.1	Not Detected
1,4-Dichlorobenzene	1.0	Not Detected	6.1	Not Detected
alpha-Chlorotoluene	1.0	Not Detected	5.3	Not Detected
1,2-Dichlorobenzene	1.0	Not Detected	6.1	Not Detected
1,3-Butadiene	1.0	Not Detected	2.2	Not Detected
Hexane	1.0	Not Detected	3.6	Not Detected
Cyclohexane	1.0	Not Detected	3.5	Not Detected
Heptane	1.0	Not Detected	4.2	Not Detected
Bromodichloromethane	1.0	1.8	6.8	12
Dibromochloromethane	1.0	Not Detected	8.6	Not Detected

AIR TOXICS LTD.

SAMPLE NAME: VE04-INN-027-001

ID#: 0311448-01A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	b112510	Date of Collection:	11/24/03
Dil. Factor:	2.00	Date of Analysis:	11/25/03 07:16 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Cumene	1.0	Not Detected	5.0	Not Detected
Propylbenzene	1.0	Not Detected	5.0	Not Detected
Chloromethane	4.0	Not Detected	8.4	Not Detected
1,2,4-Trichlorobenzene	4.0	Not Detected	30	Not Detected
Hexachlorobutadiene	4.0	Not Detected	43	Not Detected
Acetone	4.0	140	9.6	340
Carbon Disulfide	4.0	Not Detected	13	Not Detected
2-Propanol	4.0	18	10	46
trans-1,2-Dichloroethene	4.0	Not Detected	16	Not Detected
Vinyl Acetate	4.0	Not Detected	14	Not Detected
2-Butanone (Methyl Ethyl Ketone)	4.0	58	12	180
Tetrahydrofuran	4.0	Not Detected	12	Not Detected
1,4-Dioxane	4.0	Not Detected	15	Not Detected
4-Methyl-2-pentanone	4.0	Not Detected	17	Not Detected
2-Hexanone	4.0	Not Detected	17	Not Detected
Bromoform	4.0	Not Detected	42	Not Detected
4-Ethyltoluene	4.0	Not Detected	20	Not Detected
Methyl tert-butyl ether	4.0	Not Detected	15	Not Detected
Ethanol	4.0	Not Detected	7.7	Not Detected

Container Type: 1 Liter Tedlar Bag

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	106	70-130
Toluene-d8	96	70-130
4-Bromofluorobenzene	97	70-130

AIR TOXICS LTD.

SAMPLE NAME: VE04-INN-027-001 Duplicate

ID#: 0311448-01AA

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	b112508	Date of Collection:	11/24/03
Dil. Factor:	1.00	Date of Analysis:	11/25/03 05:13 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	0.50	12	2.5	61
Freon 114	0.50	Not Detected	3.6	Not Detected
Vinyl Chloride	0.50	Not Detected	1.3	Not Detected
Bromomethane	0.50	Not Detected	2.0	Not Detected
Chloroethane	0.50	Not Detected	1.3	Not Detected
Freon 11	0.50	42	2.8	240
1,1-Dichloroethene	0.50	5.5	2.0	22
Freon 113	0.50	23	3.9	180
Methylene Chloride	0.50	Not Detected	1.8	Not Detected
1,1-Dichloroethane	0.50	0.80	2.0	3.3
cis-1,2-Dichloroethene	0.50	1.0	2.0	4.1
Chloroform	0.50	40	2.5	200
1,1,1-Trichloroethane	0.50	2.5	2.8	14
Carbon Tetrachloride	0.50	32	3.2	210
Benzene	0.50	0.51	1.6	1.6
1,2-Dichloroethane	0.50	Not Detected	2.0	Not Detected
Trichloroethene	0.50	210 E	2.7	1200 E
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	1.8	1.9	6.8
trans-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
1,1,2-Trichloroethane	0.50	Not Detected	2.8	Not Detected
Tetrachloroethene	0.50	14	3.4	96
1,2-Dibromoethane (EDB)	0.50	Not Detected	3.9	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	2.2	Not Detected
1,1,2,2-Tetrachloroethane	0.50	Not Detected	3.5	Not Detected
1,3,5-Trimethylbenzene	0.50	Not Detected	2.5	Not Detected
1,2,4-Trimethylbenzene	0.50	Not Detected	2.5	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
Heptane	0.50	Not Detected	2.1	Not Detected
Bromodichloromethane	0.50	2.0	3.4	14
Dibromochloromethane	0.50	0.51	4.3	4.4

AIR TOXICS LTD.

SAMPLE NAME: VE04-INN-027-001 Duplicate

ID#: 0311448-01AA

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	b112508	Date of Collection:	11/24/03
Dil. Factor:	1.00	Date of Analysis:	11/25/03 05:13 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Cumene	0.50	Not Detected	2.5	Not Detected
Propylbenzene	0.50	Not Detected	2.5	Not Detected
Chloromethane	2.0	Not Detected	4.2	Not Detected
1,2,4-Trichlorobenzene	2.0	Not Detected	15	Not Detected
Hexachlorobutadiene	2.0	Not Detected	22	Not Detected
Acetone	2.0	140	4.8	330
Carbon Disulfide	2.0	2.8	6.3	8.8
2-Propanol	2.0	17	5.0	42
trans-1,2-Dichloroethene	2.0	Not Detected	8.0	Not Detected
Vinyl Acetate	2.0	Not Detected	7.2	Not Detected
2-Butanone (Methyl Ethyl Ketone)	2.0	55	6.0	160
Tetrahydrofuran	2.0	Not Detected	6.0	Not Detected
1,4-Dioxane	2.0	Not Detected	7.3	Not Detected
4-Methyl-2-pentanone	2.0	Not Detected	8.3	Not Detected
2-Hexanone	2.0	Not Detected	8.3	Not Detected
Bromoform	2.0	Not Detected	21	Not Detected
4-Ethyltoluene	2.0	Not Detected	10	Not Detected
Methyl tert-butyl ether	2.0	Not Detected	7.3	Not Detected
Ethanol	2.0	Not Detected	3.8	Not Detected

E = Exceeds instrument calibration range.

Container Type: 1 Liter Tedlar Bag

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	102	70-130
Toluene-d8	97	70-130
4-Bromofluorobenzene	96	70-130

AIR TOXICS LTD.

SAMPLE NAME: VE04-EFF-027-002

ID#: 0311448-02A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	b112509	Date of Collection:	11/24/03
Dil. Factor:	2.00	Date of Analysis:	11/25/03 05:51 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	1.0	12	5.0	60
Freon 114	1.0	Not Detected	7.1	Not Detected
Vinyl Chloride	1.0	Not Detected	2.6	Not Detected
Bromomethane	1.0	Not Detected	3.9	Not Detected
Chloroethane	1.0	23	2.7	62
Freon 11	1.0	40	5.7	230
1,1-Dichloroethene	1.0	4.4	4.0	18
Freon 113	1.0	33	7.8	250
Methylene Chloride	1.0	2.7	3.5	9.4
1,1-Dichloroethane	1.0	2.1	4.1	8.7
cis-1,2-Dichloroethene	1.0	Not Detected	4.0	Not Detected
Chloroform	1.0	5.3	5.0	26
1,1,1-Trichloroethane	1.0	Not Detected	5.5	Not Detected
Carbon Tetrachloride	1.0	2.8	6.4	18
Benzene	1.0	Not Detected	3.2	Not Detected
1,2-Dichloroethane	1.0	Not Detected	4.1	Not Detected
Trichloroethene	1.0	Not Detected	5.5	Not Detected
1,2-Dichloropropane	1.0	Not Detected	4.7	Not Detected
cis-1,3-Dichloropropene	1.0	Not Detected	4.6	Not Detected
Toluene	1.0	1.4	3.8	5.5
trans-1,3-Dichloropropene	1.0	Not Detected	4.6	Not Detected
1,1,2-Trichloroethane	1.0	Not Detected	5.5	Not Detected
Tetrachloroethene	1.0	Not Detected	6.9	Not Detected
1,2-Dibromoethane (EDB)	1.0	Not Detected	7.8	Not Detected
Chlorobenzene	1.0	Not Detected	4.7	Not Detected
Ethyl Benzene	1.0	Not Detected	4.4	Not Detected
m,p-Xylene	1.0	Not Detected	4.4	Not Detected
o-Xylene	1.0	Not Detected	4.4	Not Detected
Styrene	1.0	Not Detected	4.3	Not Detected
1,1,2,2-Tetrachloroethane	1.0	Not Detected	7.0	Not Detected
1,3,5-Trimethylbenzene	1.0	Not Detected	5.0	Not Detected
1,2,4-Trimethylbenzene	1.0	Not Detected	5.0	Not Detected
1,3-Dichlorobenzene	1.0	Not Detected	6.1	Not Detected
1,4-Dichlorobenzene	1.0	Not Detected	6.1	Not Detected
alpha-Chlorotoluene	1.0	Not Detected	5.3	Not Detected
1,2-Dichlorobenzene	1.0	Not Detected	6.1	Not Detected
1,3-Butadiene	1.0	Not Detected	2.2	Not Detected
Hexane	1.0	Not Detected	3.6	Not Detected
Cyclohexane	1.0	Not Detected	3.5	Not Detected
Heptane	1.0	2.9	4.2	12
Bromodichloromethane	1.0	Not Detected	6.8	Not Detected
Dibromochloromethane	1.0	Not Detected	8.6	Not Detected

AIR TOXICS LTD.

SAMPLE NAME: VE04-EFF-027-002

ID#: 0311448-02A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	b112509	Date of Collection:	11/24/03
Dil. Factor:	2.00	Date of Analysis:	11/25/03 05:51 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Cumene	1.0	Not Detected	5.0	Not Detected
Propylbenzene	1.0	Not Detected	5.0	Not Detected
Chloromethane	4.0	Not Detected	8.4	Not Detected
1,2,4-Trichlorobenzene	4.0	Not Detected	30	Not Detected
Hexachlorobutadiene	4.0	Not Detected	43	Not Detected
Acetone	4.0	240	9.6	590
Carbon Disulfide	4.0	Not Detected	13	Not Detected
2-Propanol	4.0	20	10	50
trans-1,2-Dichloroethene	4.0	Not Detected	16	Not Detected
Vinyl Acetate	4.0	Not Detected	14	Not Detected
2-Butanone (Methyl Ethyl Ketone)	4.0	120	12	350
Tetrahydrofuran	4.0	Not Detected	12	Not Detected
1,4-Dioxane	4.0	Not Detected	15	Not Detected
4-Methyl-2-pentanone	4.0	Not Detected	17	Not Detected
2-Hexanone	4.0	7.2	17	30
Bromoform	4.0	Not Detected	42	Not Detected
4-Ethyltoluene	4.0	Not Detected	20	Not Detected
Methyl tert-butyl ether	4.0	Not Detected	15	Not Detected
Ethanol	4.0	94	7.7	180

Container Type: 1 Liter Tedlar Bag

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	94	70-130
Toluene-d8	96	70-130
4-Bromofluorobenzene	100	70-130

AIR TOXICS LTD.

SAMPLE NAME: Lab Blank

ID#: 0311448-03A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	b112507	Date of Collection: NA	
Dil. Factor:	1.00	Date of Analysis: 11/25/03 04:14 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	3.6	Not Detected
Vinyl Chloride	0.50	Not Detected	1.3	Not Detected
Bromomethane	0.50	Not Detected	2.0	Not Detected
Chloroethane	0.50	Not Detected	1.3	Not Detected
Freon 11	0.50	Not Detected	2.8	Not Detected
1,1-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Freon 113	0.50	Not Detected	3.9	Not Detected
Methylene Chloride	0.50	Not Detected	1.8	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	2.5	Not Detected
1,1,1-Trichloroethane	0.50	Not Detected	2.8	Not Detected
Carbon Tetrachloride	0.50	Not Detected	3.2	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	2.8	Not Detected
Tetrachloroethene	0.50	Not Detected	3.4	Not Detected
1,2-Dibromoethane (EDB)	0.50	Not Detected	3.9	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	2.2	Not Detected
1,1,2,2-Tetrachloroethane	0.50	Not Detected	3.5	Not Detected
1,3,5-Trimethylbenzene	0.50	Not Detected	2.5	Not Detected
1,2,4-Trimethylbenzene	0.50	Not Detected	2.5	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
Heptane	0.50	Not Detected	2.1	Not Detected
Bromodichloromethane	0.50	Not Detected	3.4	Not Detected
Dibromochloromethane	0.50	Not Detected	4.3	Not Detected

AIR TOXICS LTD.

SAMPLE NAME: Lab Blank

ID#: 0311448-03A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	b112507	Date of Collection: NA	
Dil. Factor:	1.00	Date of Analysis: 11/25/03 04:14 PM	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Cumene	0.50	Not Detected	2.5	Not Detected
Propylbenzene	0.50	Not Detected	2.5	Not Detected
Chloromethane	2.0	Not Detected	4.2	Not Detected
1,2,4-Trichlorobenzene	2.0	Not Detected	15	Not Detected
Hexachlorobutadiene	2.0	Not Detected	22	Not Detected
Acetone	2.0	Not Detected	4.8	Not Detected
Carbon Disulfide	2.0	Not Detected	6.3	Not Detected
2-Propanol	2.0	Not Detected	5.0	Not Detected
trans-1,2-Dichloroethene	2.0	Not Detected	8.0	Not Detected
Vinyl Acetate	2.0	Not Detected	7.2	Not Detected
2-Butanone (Methyl Ethyl Ketone)	2.0	Not Detected	6.0	Not Detected
Tetrahydrofuran	2.0	Not Detected	6.0	Not Detected
1,4-Dioxane	2.0	Not Detected	7.3	Not Detected
4-Methyl-2-pentanone	2.0	Not Detected	8.3	Not Detected
2-Hexanone	2.0	Not Detected	8.3	Not Detected
Bromoform	2.0	Not Detected	21	Not Detected
4-Ethyltoluene	2.0	Not Detected	10	Not Detected
Methyl tert-butyl ether	2.0	Not Detected	7.3	Not Detected
Ethanol	2.0	Not Detected	3.8	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	99	70-130
Toluene-d8	95	70-130
4-Bromofluorobenzene	98	70-130

AIR TOXICS LTD.

SAMPLE NAME: CCV

ID#: 0311448-04A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	b112503	Date of Collection: NA	
Dil. Factor:	1.00	Date of Analysis: 11/25/03 01:18 PM	

Compound	%Recovery
Freon 12	123
Freon 114	110
Vinyl Chloride	126
Bromomethane	118
Chloroethane	123
Freon 11	110
1,1-Dichloroethene	111
Freon 113	112
Methylene Chloride	108
1,1-Dichloroethane	111
cis-1,2-Dichloroethene	109
Chloroform	109
1,1,1-Trichloroethane	118
Carbon Tetrachloride	127
Benzene	97
1,2-Dichloroethane	108
Trichloroethene	107
1,2-Dichloropropane	104
cis-1,3-Dichloropropene	108
Toluene	97
trans-1,3-Dichloropropene	105
1,1,2-Trichloroethane	108
Tetrachloroethene	106
1,2-Dibromoethane (EDB)	108
Chlorobenzene	104
Ethyl Benzene	106
m,p-Xylene	106
o-Xylene	106
Styrene	104
1,1,2,2-Tetrachloroethane	102
1,3,5-Trimethylbenzene	108
1,2,4-Trimethylbenzene	104
1,3-Dichlorobenzene	101
1,4-Dichlorobenzene	104
alpha-Chlorotoluene	113
1,2-Dichlorobenzene	97
1,3-Butadiene	106
Hexane	99
Cyclohexane	107
Heptane	96
Bromodichloromethane	113
Dibromochloromethane	122

AIR TOXICS LTD.

SAMPLE NAME: CCV

ID#: 0311448-04A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	b112503	Date of Collection: NA	
Dil. Factor:	1.00	Date of Analysis: 11/25/03 01:18 PM	

Compound	%Recovery
Cumene	105
Propylbenzene	110
Chloromethane	112
1,2,4-Trichlorobenzene	102
Hexachlorobutadiene	103
Acetone	110
Carbon Disulfide	107
2-Propanol	108
trans-1,2-Dichloroethene	108
Vinyl Acetate	113
2-Butanone (Methyl Ethyl Ketone)	111
Tetrahydrofuran	108
1,4-Dioxane	109
4-Methyl-2-pentanone	107
2-Hexanone	108
Bromoform	129
4-Ethyltoluene	115
Methyl tert-butyl ether	109
Ethanol	114

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	105	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	102	70-130