

US EPA ARCHIVE DOCUMENT

10/19/2009

Mr. Doug Lam

Trihydro Corporation

5000 State Route 128

Cleves OH 45002

Project Name: Hooven VI 2008-2009

Project #: 500-016-012

Workorder #: 0910190B

Dear Mr. Doug Lam

The following report includes the data for the above referenced project for sample(s) received on 10/7/2009 at Air Toxics Ltd.

The data and associated QC analyzed by Modified TO-15 are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Air Toxics Ltd. for your air analysis needs. Air Toxics Ltd. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Bryanna Langley at 916-985-1000 if you have any questions regarding the data in this report.

Regards,



Bryanna Langley

Project Manager

WORK ORDER #: 0910190B

Work Order Summary

CLIENT: Mr. Doug Lam
 Trihydro Corporation
 5000 State Route 128
 Cleves, OH 45002

BILL TO: Mr. Paul Michalski
 Trihydro Corporation
 5000 State Route 128
 Cleves, OH 45002

PHONE: 513-353-1323 ext 23

P.O. # 08-050WO-L

FAX: 513-353-4664

PROJECT # 500-016-012 Hooven VI 2008-2009

DATE RECEIVED: 10/07/2009

CONTACT: Bryanna Langley

DATE COMPLETED: 08/22/2009

<u>FRACTION #</u>	<u>NAME</u>	<u>TEST</u>	<u>RECEIPT VAC./PRES.</u>	<u>FINAL PRESSURE</u>
11A	TB-1,100109	Modified TO-15	26.0 "Hg	15 psi
12A	VW-127(5),100109	Modified TO-15	5.0 "Hg	15 psi
13A	VW-127(10),100109	Modified TO-15	3.0 "Hg	15 psi
13AA	VW-127(10),100109 Lab Duplicate	Modified TO-15	3.0 "Hg	15 psi
14A	VW-127(15),100109	Modified TO-15	4.5 "Hg	15 psi
15A	VW-127(20),100109	Modified TO-15	3.0 "Hg	15 psi
16A	VW-127(30),100109	Modified TO-15	3.5 "Hg	15 psi
17A	VW-127(40),100109	Modified TO-15	5.0 "Hg	15 psi
18A	VW-127(50),100109	Modified TO-15	4.5 "Hg	15 psi
19A	VW-128(15),100109	Modified TO-15	3.0 "Hg	15 psi
20A	VW-93(5),100109	Modified TO-15	2.0 "Hg	15 psi
21A	BD1,100109	Modified TO-15	5.0 "Hg	15 psi
22A	Lab Blank	Modified TO-15	NA	NA
22B	Lab Blank	Modified TO-15	NA	NA
23A	CCV	Modified TO-15	NA	NA
23B	CCV	Modified TO-15	NA	NA
24A	LCS	Modified TO-15	NA	NA

Continued on next page

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FRACTION #
24B

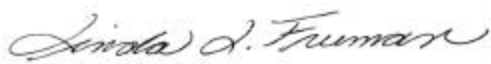
NAME
LCS

TEST
Modified TO-15

RECEIPT
VAC./PRES.
NA

FINAL
PRESSURE
NA

CERTIFIED BY:



DATE: 10/19/09

Laboratory Director

Certification numbers: CA NELAP - 02110CA, LA NELAP/LELAP- AI 30763, NJ NELAP - CA004
NY NELAP - 11291, UT NELAP - 9166389892, AZ Licensure AZ0719

Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act,

Accreditation number: E87680, Effective date: 07/01/09, Expiration date: 06/30/10

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-15
Trihydro Corporation
Workorder# 0910190B

Eleven 1 Liter Summa Canister (100% Certified) samples were received on October 07, 2009. The laboratory performed analysis via modified EPA Method TO-15 using GC/MS in the full scan mode.

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

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

<i>Requirement</i>	<i>TO-15</i>	<i>ATL Modifications</i>
Daily CCV	<= 30% Difference	<= 30% Difference; Compounds exceeding this criterion and associated data are flagged and narrated.
Sample collection media	Summa canister	ATL recommends use of summa canisters to insure data defensibility, but will report results from Tedlar bags at client request
Method Detection Limit	Follow 40CFR Pt.136 App. B	The MDL met all relevant requirements in Method TO-15 (statistical MDL less than the LOQ). The concentration of the spiked replicate may have exceeded 10X the calculated MDL in some cases

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

The reported CCV for each daily batch may be derived from more than one analytical file due to the client's request for non-standard compounds.

Non-standard compounds may have different acceptance criteria than the standard TO-14A/TO-15 compound list as per contract or verbal agreement.

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

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

Client Sample ID: TB-1,100109

Lab ID#: 0910190B-11A

No Detections Were Found.

Client Sample ID: VW-127(5),100109

Lab ID#: 0910190B-12A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Chloromethane	4.8	5.1	10	10
Acetone	4.8	100	11	240
2-Propanol	4.8	7.5	12	18
2-Butanone (Methyl Ethyl Ketone)	1.2	10	3.6	29

Client Sample ID: VW-127(10),100109

Lab ID#: 0910190B-13A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	1.1	2.2	3.6	7.2
Acetone	4.5	16	11	39
Carbon Disulfide	1.1	1.2	3.5	3.8
2-Butanone (Methyl Ethyl Ketone)	1.1	1.4	3.3	4.2

Client Sample ID: VW-127(10),100109 Lab Duplicate

Lab ID#: 0910190B-13AA

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	1.1	2.2	3.6	6.9
Acetone	4.5	17	11	41
Carbon Disulfide	1.1	1.1	3.5	3.5
2-Butanone (Methyl Ethyl Ketone)	1.1	1.4	3.3	4.3

Client Sample ID: VW-127(15),100109

Lab ID#: 0910190B-14A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	1.2	84	3.8	270
1,2-Dichloroethane	1.2	2.8	4.8	11
Toluene	1.2	160	4.5	580

Summary of Detected Compounds

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: VW-127(15),100109

Lab ID#: 0910190B-14A

Ethyl Benzene	1.2	23	5.2	100
m,p-Xylene	1.2	150	5.2	650
o-Xylene	1.2	59	5.2	260
1,3,5-Trimethylbenzene	1.2	21	5.8	100
1,2,4-Trimethylbenzene	1.2	38	5.8	180
Hexane	1.2	80	4.2	280
Cyclohexane	1.2	19	4.1	64
Heptane	1.2	42	4.9	170
Propylbenzene	1.2	2.9	5.8	14
Acetone	4.8	55	11	130
2-Butanone (Methyl Ethyl Ketone)	1.2	25	3.5	74
Tetrahydrofuran	1.2	4.6	3.5	13
1,4-Dioxane	4.8	4.7 J	17	17 J
4-Methyl-2-pentanone	1.2	2.1	4.9	8.5
4-Ethyltoluene	1.2	29	5.8	140
2,2,4-Trimethylpentane	1.2	91	5.6	420
Isopentane	4.8	200	14	580
Butane	4.8	27	11	64
Methylcyclohexane	4.8	28	19	110

Client Sample ID: VW-127(20),100109

Lab ID#: 0910190B-15A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Tetrachloroethene	1.1	1.2	7.6	8.2
Acetone	4.5	6.8	11	16
2-Butanone (Methyl Ethyl Ketone)	1.1	1.7	3.3	4.9

Client Sample ID: VW-127(30),100109

Lab ID#: 0910190B-16A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Tetrachloroethene	1.1	7.3	7.8	49
Acetone	4.6	4.8	11	11

Client Sample ID: VW-127(40),100109

Lab ID#: 0910190B-17A

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

Client Sample ID: VW-127(40),100109

Lab ID#: 0910190B-17A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Tetrachloroethene	1.2	24	8.2	160
Acetone	4.8	18	11	42
2-Butanone (Methyl Ethyl Ketone)	1.2	4.3	3.6	13

Client Sample ID: VW-127(50),100109

Lab ID#: 0910190B-18A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Tetrachloroethene	1.2	13	8.1	86
Acetone	4.8	48	11	110
2-Butanone (Methyl Ethyl Ketone)	1.2	6.8	3.5	20

Client Sample ID: VW-128(15),100109

Lab ID#: 0910190B-19A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.1	2.0	5.5	10
Chloroform	1.1	14	5.5	70
Benzene	1.1	2.6	3.6	8.4
m,p-Xylene	1.1	6.8	4.9	30
o-Xylene	1.1	1.4	4.9	5.9
Hexane	1.1	5.4	3.9	19
Cyclohexane	1.1	1.8	3.8	6.3
Heptane	1.1	3.1	4.6	13
Bromodichloromethane	1.1	1.5	7.5	10
Acetone	4.5	18	11	43
2-Propanol	4.5	6.5	11	16
2-Butanone (Methyl Ethyl Ketone)	1.1	3.3	3.3	9.8
4-Ethyltoluene	1.1	1.4	5.5	6.7
Ethanol	4.5	4.7	8.4	8.9
2,2,4-Trimethylpentane	1.1	8.3	5.2	39
Isopentane	4.5	22	13	64
Butane	4.5	9.3	11	22

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

Client Sample ID: VW-93(5),100109

Lab ID#: 0910190B-20A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Acetone	4.3	11	10	26
2-Butanone (Methyl Ethyl Ketone)	1.1	2.3	3.2	6.7

Client Sample ID: BD1,100109

Lab ID#: 0910190B-21A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	1.2	1.4	3.9	4.6
Tetrachloroethene	1.2	23	8.2	160
Ethyl Benzene	1.2	2.2	5.2	9.5
m,p-Xylene	1.2	4.9	5.2	21
1,2,4-Trimethylbenzene	1.2	2.6	5.9	13
Acetone	4.8	14	11	34
2-Butanone (Methyl Ethyl Ketone)	1.2	2.2	3.6	6.6
4-Ethyltoluene	1.2	1.8	5.9	9.1

Client Sample ID: TB-1,100109

Lab ID#: 0910190B-11A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	x101617	Date of Collection:	10/1/09
Dil. Factor:	1.00	Date of Analysis:	10/16/09 04:47 PM

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

Client Sample ID: TB-1,100109

Lab ID#: 0910190B-11A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	x101617	Date of Collection:	10/1/09
Dil. Factor:	1.00	Date of Analysis:	10/16/09 04:47 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
Butylbenzene	2.0	Not Detected	11	Not Detected
sec-Butylbenzene	2.0	Not Detected	11	Not Detected
Isopentane	2.0	Not Detected	5.9	Not Detected
Butane	2.0	Not Detected	4.8	Not Detected
Methylcyclohexane	2.0	Not Detected	8.0	Not Detected

Container Type: 1 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
Toluene-d8	98	70-130
1,2-Dichloroethane-d4	87	70-130
4-Bromofluorobenzene	92	70-130

Client Sample ID: VW-127(5),100109

Lab ID#: 0910190B-12A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	x101616	Date of Collection: 10/1/09 4:00:00 PM
Dil. Factor:	2.42	Date of Analysis: 10/16/09 04:09 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.2	Not Detected	6.0	Not Detected
Freon 114	1.2	Not Detected	8.4	Not Detected
Vinyl Chloride	1.2	Not Detected	3.1	Not Detected
Bromomethane	1.2	Not Detected	4.7	Not Detected
Chloroethane	1.2	Not Detected	3.2	Not Detected
Freon 11	1.2	Not Detected	6.8	Not Detected
1,1-Dichloroethene	1.2	Not Detected	4.8	Not Detected
Freon 113	1.2	Not Detected	9.3	Not Detected
Methylene Chloride	1.2	Not Detected	4.2	Not Detected
1,1-Dichloroethane	1.2	Not Detected	4.9	Not Detected
cis-1,2-Dichloroethene	1.2	Not Detected	4.8	Not Detected
Chloroform	1.2	Not Detected	5.9	Not Detected
1,1,1-Trichloroethane	1.2	Not Detected	6.6	Not Detected
Carbon Tetrachloride	1.2	Not Detected	7.6	Not Detected
Benzene	1.2	Not Detected	3.9	Not Detected
1,2-Dichloroethane	1.2	Not Detected	4.9	Not Detected
Trichloroethene	1.2	Not Detected	6.5	Not Detected
1,2-Dichloropropane	1.2	Not Detected	5.6	Not Detected
cis-1,3-Dichloropropene	1.2	Not Detected	5.5	Not Detected
Toluene	1.2	Not Detected	4.6	Not Detected
trans-1,3-Dichloropropene	1.2	Not Detected	5.5	Not Detected
1,1,2-Trichloroethane	1.2	Not Detected	6.6	Not Detected
Tetrachloroethene	1.2	Not Detected	8.2	Not Detected
1,2-Dibromoethane (EDB)	1.2	Not Detected	9.3	Not Detected
Chlorobenzene	1.2	Not Detected	5.6	Not Detected
Ethyl Benzene	1.2	Not Detected	5.2	Not Detected
m,p-Xylene	1.2	Not Detected	5.2	Not Detected
o-Xylene	1.2	Not Detected	5.2	Not Detected
Styrene	1.2	Not Detected	5.2	Not Detected
1,1,2,2-Tetrachloroethane	1.2	Not Detected	8.3	Not Detected
1,3,5-Trimethylbenzene	1.2	Not Detected	5.9	Not Detected
1,2,4-Trimethylbenzene	1.2	Not Detected	5.9	Not Detected
1,3-Dichlorobenzene	1.2	Not Detected	7.3	Not Detected
1,4-Dichlorobenzene	1.2	Not Detected	7.3	Not Detected
alpha-Chlorotoluene	1.2	Not Detected	6.3	Not Detected
1,2-Dichlorobenzene	1.2	Not Detected	7.3	Not Detected
1,3-Butadiene	1.2	Not Detected	2.7	Not Detected
Hexane	1.2	Not Detected	4.3	Not Detected
Cyclohexane	1.2	Not Detected	4.2	Not Detected

Client Sample ID: VW-127(5),100109

Lab ID#: 0910190B-12A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	x101616	Date of Collection: 10/1/09 4:00:00 PM
Dil. Factor:	2.42	Date of Analysis: 10/16/09 04:09 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Heptane	1.2	Not Detected	5.0	Not Detected
Bromodichloromethane	1.2	Not Detected	8.1	Not Detected
Dibromochloromethane	1.2	Not Detected	10	Not Detected
Cumene	1.2	Not Detected	5.9	Not Detected
Propylbenzene	1.2	Not Detected	5.9	Not Detected
Chloromethane	4.8	5.1	10	10
1,2,4-Trichlorobenzene	4.8	Not Detected	36	Not Detected
Hexachlorobutadiene	4.8	Not Detected	52	Not Detected
Acetone	4.8	100	11	240
Carbon Disulfide	1.2	Not Detected	3.8	Not Detected
2-Propanol	4.8	7.5	12	18
trans-1,2-Dichloroethene	1.2	Not Detected	4.8	Not Detected
2-Butanone (Methyl Ethyl Ketone)	1.2	10	3.6	29
Tetrahydrofuran	1.2	Not Detected	3.6	Not Detected
1,4-Dioxane	4.8	Not Detected	17	Not Detected
4-Methyl-2-pentanone	1.2	Not Detected	5.0	Not Detected
2-Hexanone	4.8	Not Detected	20	Not Detected
Bromoform	1.2	Not Detected	12	Not Detected
4-Ethyltoluene	1.2	Not Detected	5.9	Not Detected
Ethanol	4.8	Not Detected	9.1	Not Detected
Methyl tert-butyl ether	1.2	Not Detected	4.4	Not Detected
3-Chloropropene	4.8	Not Detected	15	Not Detected
2,2,4-Trimethylpentane	1.2	Not Detected	5.6	Not Detected
Naphthalene	4.8	Not Detected	25	Not Detected
Butylbenzene	4.8	Not Detected	26	Not Detected
sec-Butylbenzene	4.8	Not Detected	26	Not Detected
Isopentane	4.8	Not Detected	14	Not Detected
Butane	4.8	Not Detected	12	Not Detected
Methylcyclohexane	4.8	Not Detected	19	Not Detected

Container Type: 1 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
Toluene-d8	98	70-130
1,2-Dichloroethane-d4	84	70-130
4-Bromofluorobenzene	97	70-130

Client Sample ID: VW-127(10),100109

Lab ID#: 0910190B-13A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	x101618	Date of Collection: 10/1/09 4:35:00 PM		
Dil. Factor:	2.24	Date of Analysis: 10/16/09 05:41 PM		
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.1	Not Detected	5.5	Not Detected
Freon 114	1.1	Not Detected	7.8	Not Detected
Vinyl Chloride	1.1	Not Detected	2.9	Not Detected
Bromomethane	1.1	Not Detected	4.3	Not Detected
Chloroethane	1.1	Not Detected	3.0	Not Detected
Freon 11	1.1	Not Detected	6.3	Not Detected
1,1-Dichloroethene	1.1	Not Detected	4.4	Not Detected
Freon 113	1.1	Not Detected	8.6	Not Detected
Methylene Chloride	1.1	Not Detected	3.9	Not Detected
1,1-Dichloroethane	1.1	Not Detected	4.5	Not Detected
cis-1,2-Dichloroethene	1.1	Not Detected	4.4	Not Detected
Chloroform	1.1	Not Detected	5.5	Not Detected
1,1,1-Trichloroethane	1.1	Not Detected	6.1	Not Detected
Carbon Tetrachloride	1.1	Not Detected	7.0	Not Detected
Benzene	1.1	2.2	3.6	7.2
1,2-Dichloroethane	1.1	Not Detected	4.5	Not Detected
Trichloroethene	1.1	Not Detected	6.0	Not Detected
1,2-Dichloropropane	1.1	Not Detected	5.2	Not Detected
cis-1,3-Dichloropropene	1.1	Not Detected	5.1	Not Detected
Toluene	1.1	Not Detected	4.2	Not Detected
trans-1,3-Dichloropropene	1.1	Not Detected	5.1	Not Detected
1,1,2-Trichloroethane	1.1	Not Detected	6.1	Not Detected
Tetrachloroethene	1.1	Not Detected	7.6	Not Detected
1,2-Dibromoethane (EDB)	1.1	Not Detected	8.6	Not Detected
Chlorobenzene	1.1	Not Detected	5.2	Not Detected
Ethyl Benzene	1.1	Not Detected	4.9	Not Detected
m,p-Xylene	1.1	Not Detected	4.9	Not Detected
o-Xylene	1.1	Not Detected	4.9	Not Detected
Styrene	1.1	Not Detected	4.8	Not Detected
1,1,2,2-Tetrachloroethane	1.1	Not Detected	7.7	Not Detected
1,3,5-Trimethylbenzene	1.1	Not Detected	5.5	Not Detected
1,2,4-Trimethylbenzene	1.1	Not Detected	5.5	Not Detected
1,3-Dichlorobenzene	1.1	Not Detected	6.7	Not Detected
1,4-Dichlorobenzene	1.1	Not Detected	6.7	Not Detected
alpha-Chlorotoluene	1.1	Not Detected	5.8	Not Detected
1,2-Dichlorobenzene	1.1	Not Detected	6.7	Not Detected
1,3-Butadiene	1.1	Not Detected	2.5	Not Detected
Hexane	1.1	Not Detected	3.9	Not Detected
Cyclohexane	1.1	Not Detected	3.8	Not Detected

Client Sample ID: VW-127(10),100109

Lab ID#: 0910190B-13A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	x101618	Date of Collection: 10/1/09 4:35:00 PM
Dil. Factor:	2.24	Date of Analysis: 10/16/09 05:41 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Heptane	1.1	Not Detected	4.6	Not Detected
Bromodichloromethane	1.1	Not Detected	7.5	Not Detected
Dibromochloromethane	1.1	Not Detected	9.5	Not Detected
Cumene	1.1	Not Detected	5.5	Not Detected
Propylbenzene	1.1	Not Detected	5.5	Not Detected
Chloromethane	4.5	Not Detected	9.2	Not Detected
1,2,4-Trichlorobenzene	4.5	Not Detected	33	Not Detected
Hexachlorobutadiene	4.5	Not Detected	48	Not Detected
Acetone	4.5	16	11	39
Carbon Disulfide	1.1	1.2	3.5	3.8
2-Propanol	4.5	Not Detected	11	Not Detected
trans-1,2-Dichloroethene	1.1	Not Detected	4.4	Not Detected
2-Butanone (Methyl Ethyl Ketone)	1.1	1.4	3.3	4.2
Tetrahydrofuran	1.1	Not Detected	3.3	Not Detected
1,4-Dioxane	4.5	Not Detected	16	Not Detected
4-Methyl-2-pentanone	1.1	Not Detected	4.6	Not Detected
2-Hexanone	4.5	Not Detected	18	Not Detected
Bromoform	1.1	Not Detected	12	Not Detected
4-Ethyltoluene	1.1	Not Detected	5.5	Not Detected
Ethanol	4.5	Not Detected	8.4	Not Detected
Methyl tert-butyl ether	1.1	Not Detected	4.0	Not Detected
3-Chloropropene	4.5	Not Detected	14	Not Detected
2,2,4-Trimethylpentane	1.1	Not Detected	5.2	Not Detected
Naphthalene	4.5	Not Detected	23	Not Detected
Butylbenzene	4.5	Not Detected	24	Not Detected
sec-Butylbenzene	4.5	Not Detected	24	Not Detected
Isopentane	4.5	Not Detected	13	Not Detected
Butane	4.5	Not Detected	11	Not Detected
Methylcyclohexane	4.5	Not Detected	18	Not Detected

Container Type: 1 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
Toluene-d8	97	70-130
1,2-Dichloroethane-d4	89	70-130
4-Bromofluorobenzene	97	70-130

Client Sample ID: VW-127(10),100109 Lab Duplicate

Lab ID#: 0910190B-13AA

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	x101619	Date of Collection: 10/1/09 4:35:00 PM
Dil. Factor:	2.24	Date of Analysis: 10/16/09 06:35 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.1	Not Detected	5.5	Not Detected
Freon 114	1.1	Not Detected	7.8	Not Detected
Vinyl Chloride	1.1	Not Detected	2.9	Not Detected
Bromomethane	1.1	Not Detected	4.3	Not Detected
Chloroethane	1.1	Not Detected	3.0	Not Detected
Freon 11	1.1	Not Detected	6.3	Not Detected
1,1-Dichloroethene	1.1	Not Detected	4.4	Not Detected
Freon 113	1.1	Not Detected	8.6	Not Detected
Methylene Chloride	1.1	Not Detected	3.9	Not Detected
1,1-Dichloroethane	1.1	Not Detected	4.5	Not Detected
cis-1,2-Dichloroethene	1.1	Not Detected	4.4	Not Detected
Chloroform	1.1	Not Detected	5.5	Not Detected
1,1,1-Trichloroethane	1.1	Not Detected	6.1	Not Detected
Carbon Tetrachloride	1.1	Not Detected	7.0	Not Detected
Benzene	1.1	2.2	3.6	6.9
1,2-Dichloroethane	1.1	Not Detected	4.5	Not Detected
Trichloroethene	1.1	Not Detected	6.0	Not Detected
1,2-Dichloropropane	1.1	Not Detected	5.2	Not Detected
cis-1,3-Dichloropropene	1.1	Not Detected	5.1	Not Detected
Toluene	1.1	Not Detected	4.2	Not Detected
trans-1,3-Dichloropropene	1.1	Not Detected	5.1	Not Detected
1,1,2-Trichloroethane	1.1	Not Detected	6.1	Not Detected
Tetrachloroethene	1.1	Not Detected	7.6	Not Detected
1,2-Dibromoethane (EDB)	1.1	Not Detected	8.6	Not Detected
Chlorobenzene	1.1	Not Detected	5.2	Not Detected
Ethyl Benzene	1.1	Not Detected	4.9	Not Detected
m,p-Xylene	1.1	Not Detected	4.9	Not Detected
o-Xylene	1.1	Not Detected	4.9	Not Detected
Styrene	1.1	Not Detected	4.8	Not Detected
1,1,2,2-Tetrachloroethane	1.1	Not Detected	7.7	Not Detected
1,3,5-Trimethylbenzene	1.1	Not Detected	5.5	Not Detected
1,2,4-Trimethylbenzene	1.1	Not Detected	5.5	Not Detected
1,3-Dichlorobenzene	1.1	Not Detected	6.7	Not Detected
1,4-Dichlorobenzene	1.1	Not Detected	6.7	Not Detected
alpha-Chlorotoluene	1.1	Not Detected	5.8	Not Detected
1,2-Dichlorobenzene	1.1	Not Detected	6.7	Not Detected
1,3-Butadiene	1.1	Not Detected	2.5	Not Detected
Hexane	1.1	Not Detected	3.9	Not Detected
Cyclohexane	1.1	Not Detected	3.8	Not Detected

Client Sample ID: VW-127(10),100109 Lab Duplicate

Lab ID#: 0910190B-13AA

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	x101619	Date of Collection:	10/1/09 4:35:00 PM
Dil. Factor:	2.24	Date of Analysis:	10/16/09 06:35 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Heptane	1.1	Not Detected	4.6	Not Detected
Bromodichloromethane	1.1	Not Detected	7.5	Not Detected
Dibromochloromethane	1.1	Not Detected	9.5	Not Detected
Cumene	1.1	Not Detected	5.5	Not Detected
Propylbenzene	1.1	Not Detected	5.5	Not Detected
Chloromethane	4.5	Not Detected	9.2	Not Detected
1,2,4-Trichlorobenzene	4.5	Not Detected	33	Not Detected
Hexachlorobutadiene	4.5	Not Detected	48	Not Detected
Acetone	4.5	17	11	41
Carbon Disulfide	1.1	1.1	3.5	3.5
2-Propanol	4.5	Not Detected	11	Not Detected
trans-1,2-Dichloroethene	1.1	Not Detected	4.4	Not Detected
2-Butanone (Methyl Ethyl Ketone)	1.1	1.4	3.3	4.3
Tetrahydrofuran	1.1	Not Detected	3.3	Not Detected
1,4-Dioxane	4.5	Not Detected	16	Not Detected
4-Methyl-2-pentanone	1.1	Not Detected	4.6	Not Detected
2-Hexanone	4.5	Not Detected	18	Not Detected
Bromoform	1.1	Not Detected	12	Not Detected
4-Ethyltoluene	1.1	Not Detected	5.5	Not Detected
Ethanol	4.5	Not Detected	8.4	Not Detected
Methyl tert-butyl ether	1.1	Not Detected	4.0	Not Detected
3-Chloropropene	4.5	Not Detected	14	Not Detected
2,2,4-Trimethylpentane	1.1	Not Detected	5.2	Not Detected
Naphthalene	4.5	Not Detected	23	Not Detected
Butylbenzene	4.5	Not Detected	24	Not Detected
sec-Butylbenzene	4.5	Not Detected	24	Not Detected
Isopentane	4.5	Not Detected	13	Not Detected
Butane	4.5	Not Detected	11	Not Detected
Methylcyclohexane	4.5	Not Detected	18	Not Detected

Container Type: 1 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
Toluene-d8	97	70-130
1,2-Dichloroethane-d4	88	70-130
4-Bromofluorobenzene	98	70-130

Client Sample ID: VW-127(15),100109

Lab ID#: 0910190B-14A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	x101622	Date of Collection: 10/1/09 3:12:00 PM
Dil. Factor:	2.38	Date of Analysis: 10/16/09 09:27 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.2	Not Detected	5.9	Not Detected
Freon 114	1.2	Not Detected	8.3	Not Detected
Vinyl Chloride	1.2	Not Detected	3.0	Not Detected
Bromomethane	1.2	Not Detected	4.6	Not Detected
Chloroethane	1.2	Not Detected	3.1	Not Detected
Freon 11	1.2	Not Detected	6.7	Not Detected
1,1-Dichloroethene	1.2	Not Detected	4.7	Not Detected
Freon 113	1.2	Not Detected	9.1	Not Detected
Methylene Chloride	1.2	Not Detected	4.1	Not Detected
1,1-Dichloroethane	1.2	Not Detected	4.8	Not Detected
cis-1,2-Dichloroethene	1.2	Not Detected	4.7	Not Detected
Chloroform	1.2	Not Detected	5.8	Not Detected
1,1,1-Trichloroethane	1.2	Not Detected	6.5	Not Detected
Carbon Tetrachloride	1.2	Not Detected	7.5	Not Detected
Benzene	1.2	84	3.8	270
1,2-Dichloroethane	1.2	2.8	4.8	11
Trichloroethene	1.2	Not Detected	6.4	Not Detected
1,2-Dichloropropane	1.2	Not Detected	5.5	Not Detected
cis-1,3-Dichloropropene	1.2	Not Detected	5.4	Not Detected
Toluene	1.2	160	4.5	580
trans-1,3-Dichloropropene	1.2	Not Detected	5.4	Not Detected
1,1,2-Trichloroethane	1.2	Not Detected	6.5	Not Detected
Tetrachloroethene	1.2	Not Detected	8.1	Not Detected
1,2-Dibromoethane (EDB)	1.2	Not Detected	9.1	Not Detected
Chlorobenzene	1.2	Not Detected	5.5	Not Detected
Ethyl Benzene	1.2	23	5.2	100
m,p-Xylene	1.2	150	5.2	650
o-Xylene	1.2	59	5.2	260
Styrene	1.2	Not Detected	5.1	Not Detected
1,1,2,2-Tetrachloroethane	1.2	Not Detected	8.2	Not Detected
1,3,5-Trimethylbenzene	1.2	21	5.8	100
1,2,4-Trimethylbenzene	1.2	38	5.8	180
1,3-Dichlorobenzene	1.2	Not Detected	7.2	Not Detected
1,4-Dichlorobenzene	1.2	Not Detected	7.2	Not Detected
alpha-Chlorotoluene	1.2	Not Detected	6.2	Not Detected
1,2-Dichlorobenzene	1.2	Not Detected	7.2	Not Detected
1,3-Butadiene	1.2	Not Detected	2.6	Not Detected
Hexane	1.2	80	4.2	280
Cyclohexane	1.2	19	4.1	64

Client Sample ID: VW-127(15),100109

Lab ID#: 0910190B-14A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	x101622	Date of Collection: 10/1/09 3:12:00 PM
Dil. Factor:	2.38	Date of Analysis: 10/16/09 09:27 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Heptane	1.2	42	4.9	170
Bromodichloromethane	1.2	Not Detected	8.0	Not Detected
Dibromochloromethane	1.2	Not Detected	10	Not Detected
Cumene	1.2	Not Detected	5.8	Not Detected
Propylbenzene	1.2	2.9	5.8	14
Chloromethane	4.8	Not Detected	9.8	Not Detected
1,2,4-Trichlorobenzene	4.8	Not Detected	35	Not Detected
Hexachlorobutadiene	4.8	Not Detected	51	Not Detected
Acetone	4.8	55	11	130
Carbon Disulfide	1.2	Not Detected	3.7	Not Detected
2-Propanol	4.8	Not Detected	12	Not Detected
trans-1,2-Dichloroethene	1.2	Not Detected	4.7	Not Detected
2-Butanone (Methyl Ethyl Ketone)	1.2	25	3.5	74
Tetrahydrofuran	1.2	4.6	3.5	13
1,4-Dioxane	4.8	4.7 J	17	17 J
4-Methyl-2-pentanone	1.2	2.1	4.9	8.5
2-Hexanone	4.8	Not Detected	19	Not Detected
Bromoform	1.2	Not Detected	12	Not Detected
4-Ethyltoluene	1.2	29	5.8	140
Ethanol	4.8	Not Detected	9.0	Not Detected
Methyl tert-butyl ether	1.2	Not Detected	4.3	Not Detected
3-Chloropropene	4.8	Not Detected	15	Not Detected
2,2,4-Trimethylpentane	1.2	91	5.6	420
Naphthalene	4.8	Not Detected	25	Not Detected
Butylbenzene	4.8	Not Detected	26	Not Detected
sec-Butylbenzene	4.8	Not Detected	26	Not Detected
Isopentane	4.8	200	14	580
Butane	4.8	27	11	64
Methylcyclohexane	4.8	28	19	110

J = Estimated value.

Container Type: 1 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
Toluene-d8	100	70-130
1,2-Dichloroethane-d4	95	70-130
4-Bromofluorobenzene	97	70-130

Client Sample ID: VW-127(20),100109

Lab ID#: 0910190B-15A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	x101621	Date of Collection: 10/1/09 2:42:00 PM
Dil. Factor:	2.24	Date of Analysis: 10/16/09 08:50 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.1	Not Detected	5.5	Not Detected
Freon 114	1.1	Not Detected	7.8	Not Detected
Vinyl Chloride	1.1	Not Detected	2.9	Not Detected
Bromomethane	1.1	Not Detected	4.3	Not Detected
Chloroethane	1.1	Not Detected	3.0	Not Detected
Freon 11	1.1	Not Detected	6.3	Not Detected
1,1-Dichloroethene	1.1	Not Detected	4.4	Not Detected
Freon 113	1.1	Not Detected	8.6	Not Detected
Methylene Chloride	1.1	Not Detected	3.9	Not Detected
1,1-Dichloroethane	1.1	Not Detected	4.5	Not Detected
cis-1,2-Dichloroethene	1.1	Not Detected	4.4	Not Detected
Chloroform	1.1	Not Detected	5.5	Not Detected
1,1,1-Trichloroethane	1.1	Not Detected	6.1	Not Detected
Carbon Tetrachloride	1.1	Not Detected	7.0	Not Detected
Benzene	1.1	Not Detected	3.6	Not Detected
1,2-Dichloroethane	1.1	Not Detected	4.5	Not Detected
Trichloroethene	1.1	Not Detected	6.0	Not Detected
1,2-Dichloropropane	1.1	Not Detected	5.2	Not Detected
cis-1,3-Dichloropropene	1.1	Not Detected	5.1	Not Detected
Toluene	1.1	Not Detected	4.2	Not Detected
trans-1,3-Dichloropropene	1.1	Not Detected	5.1	Not Detected
1,1,2-Trichloroethane	1.1	Not Detected	6.1	Not Detected
Tetrachloroethene	1.1	1.2	7.6	8.2
1,2-Dibromoethane (EDB)	1.1	Not Detected	8.6	Not Detected
Chlorobenzene	1.1	Not Detected	5.2	Not Detected
Ethyl Benzene	1.1	Not Detected	4.9	Not Detected
m,p-Xylene	1.1	Not Detected	4.9	Not Detected
o-Xylene	1.1	Not Detected	4.9	Not Detected
Styrene	1.1	Not Detected	4.8	Not Detected
1,1,2,2-Tetrachloroethane	1.1	Not Detected	7.7	Not Detected
1,3,5-Trimethylbenzene	1.1	Not Detected	5.5	Not Detected
1,2,4-Trimethylbenzene	1.1	Not Detected	5.5	Not Detected
1,3-Dichlorobenzene	1.1	Not Detected	6.7	Not Detected
1,4-Dichlorobenzene	1.1	Not Detected	6.7	Not Detected
alpha-Chlorotoluene	1.1	Not Detected	5.8	Not Detected
1,2-Dichlorobenzene	1.1	Not Detected	6.7	Not Detected
1,3-Butadiene	1.1	Not Detected	2.5	Not Detected
Hexane	1.1	Not Detected	3.9	Not Detected
Cyclohexane	1.1	Not Detected	3.8	Not Detected

Client Sample ID: VW-127(20),100109

Lab ID#: 0910190B-15A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	x101621	Date of Collection: 10/1/09 2:42:00 PM
Dil. Factor:	2.24	Date of Analysis: 10/16/09 08:50 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Heptane	1.1	Not Detected	4.6	Not Detected
Bromodichloromethane	1.1	Not Detected	7.5	Not Detected
Dibromochloromethane	1.1	Not Detected	9.5	Not Detected
Cumene	1.1	Not Detected	5.5	Not Detected
Propylbenzene	1.1	Not Detected	5.5	Not Detected
Chloromethane	4.5	Not Detected	9.2	Not Detected
1,2,4-Trichlorobenzene	4.5	Not Detected	33	Not Detected
Hexachlorobutadiene	4.5	Not Detected	48	Not Detected
Acetone	4.5	6.8	11	16
Carbon Disulfide	1.1	Not Detected	3.5	Not Detected
2-Propanol	4.5	Not Detected	11	Not Detected
trans-1,2-Dichloroethene	1.1	Not Detected	4.4	Not Detected
2-Butanone (Methyl Ethyl Ketone)	1.1	1.7	3.3	4.9
Tetrahydrofuran	1.1	Not Detected	3.3	Not Detected
1,4-Dioxane	4.5	Not Detected	16	Not Detected
4-Methyl-2-pentanone	1.1	Not Detected	4.6	Not Detected
2-Hexanone	4.5	Not Detected	18	Not Detected
Bromoform	1.1	Not Detected	12	Not Detected
4-Ethyltoluene	1.1	Not Detected	5.5	Not Detected
Ethanol	4.5	Not Detected	8.4	Not Detected
Methyl tert-butyl ether	1.1	Not Detected	4.0	Not Detected
3-Chloropropene	4.5	Not Detected	14	Not Detected
2,2,4-Trimethylpentane	1.1	Not Detected	5.2	Not Detected
Naphthalene	4.5	Not Detected	23	Not Detected
Butylbenzene	4.5	Not Detected	24	Not Detected
sec-Butylbenzene	4.5	Not Detected	24	Not Detected
Isopentane	4.5	Not Detected	13	Not Detected
Butane	4.5	Not Detected	11	Not Detected
Methylcyclohexane	4.5	Not Detected	18	Not Detected

Container Type: 1 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
Toluene-d8	97	70-130
1,2-Dichloroethane-d4	88	70-130
4-Bromofluorobenzene	97	70-130

Client Sample ID: VW-127(30),100109

Lab ID#: 0910190B-16A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	x101709	Date of Collection: 10/1/09 2:08:00 PM
Dil. Factor:	2.29	Date of Analysis: 10/17/09 01:41 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.1	Not Detected	5.7	Not Detected
Freon 114	1.1	Not Detected	8.0	Not Detected
Vinyl Chloride	1.1	Not Detected	2.9	Not Detected
Bromomethane	1.1	Not Detected	4.4	Not Detected
Chloroethane	1.1	Not Detected	3.0	Not Detected
Freon 11	1.1	Not Detected	6.4	Not Detected
1,1-Dichloroethene	1.1	Not Detected	4.5	Not Detected
Freon 113	1.1	Not Detected	8.8	Not Detected
Methylene Chloride	1.1	Not Detected	4.0	Not Detected
1,1-Dichloroethane	1.1	Not Detected	4.6	Not Detected
cis-1,2-Dichloroethene	1.1	Not Detected	4.5	Not Detected
Chloroform	1.1	Not Detected	5.6	Not Detected
1,1,1-Trichloroethane	1.1	Not Detected	6.2	Not Detected
Carbon Tetrachloride	1.1	Not Detected	7.2	Not Detected
Benzene	1.1	Not Detected	3.6	Not Detected
1,2-Dichloroethane	1.1	Not Detected	4.6	Not Detected
Trichloroethene	1.1	Not Detected	6.2	Not Detected
1,2-Dichloropropane	1.1	Not Detected	5.3	Not Detected
cis-1,3-Dichloropropene	1.1	Not Detected	5.2	Not Detected
Toluene	1.1	Not Detected	4.3	Not Detected
trans-1,3-Dichloropropene	1.1	Not Detected	5.2	Not Detected
1,1,2-Trichloroethane	1.1	Not Detected	6.2	Not Detected
Tetrachloroethene	1.1	7.3	7.8	49
1,2-Dibromoethane (EDB)	1.1	Not Detected	8.8	Not Detected
Chlorobenzene	1.1	Not Detected	5.3	Not Detected
Ethyl Benzene	1.1	Not Detected	5.0	Not Detected
m,p-Xylene	1.1	Not Detected	5.0	Not Detected
o-Xylene	1.1	Not Detected	5.0	Not Detected
Styrene	1.1	Not Detected	4.9	Not Detected
1,1,2,2-Tetrachloroethane	1.1	Not Detected	7.9	Not Detected
1,3,5-Trimethylbenzene	1.1	Not Detected	5.6	Not Detected
1,2,4-Trimethylbenzene	1.1	Not Detected	5.6	Not Detected
1,3-Dichlorobenzene	1.1	Not Detected	6.9	Not Detected
1,4-Dichlorobenzene	1.1	Not Detected	6.9	Not Detected
alpha-Chlorotoluene	1.1	Not Detected	5.9	Not Detected
1,2-Dichlorobenzene	1.1	Not Detected	6.9	Not Detected
1,3-Butadiene	1.1	Not Detected	2.5	Not Detected
Hexane	1.1	Not Detected	4.0	Not Detected
Cyclohexane	1.1	Not Detected	3.9	Not Detected

Client Sample ID: VW-127(30),100109

Lab ID#: 0910190B-16A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	x101709	Date of Collection:	10/1/09 2:08:00 PM
Dil. Factor:	2.29	Date of Analysis:	10/17/09 01:41 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Heptane	1.1	Not Detected	4.7	Not Detected
Bromodichloromethane	1.1	Not Detected	7.7	Not Detected
Dibromochloromethane	1.1	Not Detected	9.8	Not Detected
Cumene	1.1	Not Detected	5.6	Not Detected
Propylbenzene	1.1	Not Detected	5.6	Not Detected
Chloromethane	4.6	Not Detected	9.4	Not Detected
1,2,4-Trichlorobenzene	4.6	Not Detected	34	Not Detected
Hexachlorobutadiene	4.6	Not Detected	49	Not Detected
Acetone	4.6	4.8	11	11
Carbon Disulfide	1.1	Not Detected	3.6	Not Detected
2-Propanol	4.6	Not Detected	11	Not Detected
trans-1,2-Dichloroethene	1.1	Not Detected	4.5	Not Detected
2-Butanone (Methyl Ethyl Ketone)	1.1	Not Detected	3.4	Not Detected
Tetrahydrofuran	1.1	Not Detected	3.4	Not Detected
1,4-Dioxane	4.6	Not Detected	16	Not Detected
4-Methyl-2-pentanone	1.1	Not Detected	4.7	Not Detected
2-Hexanone	4.6	Not Detected	19	Not Detected
Bromoform	1.1	Not Detected	12	Not Detected
4-Ethyltoluene	1.1	Not Detected	5.6	Not Detected
Ethanol	4.6	Not Detected	8.6	Not Detected
Methyl tert-butyl ether	1.1	Not Detected	4.1	Not Detected
3-Chloropropene	4.6	Not Detected	14	Not Detected
2,2,4-Trimethylpentane	1.1	Not Detected	5.3	Not Detected
Naphthalene	4.6	Not Detected UJ	24	Not Detected UJ
Butylbenzene	4.6	Not Detected	25	Not Detected
sec-Butylbenzene	4.6	Not Detected	25	Not Detected
Isopentane	4.6	Not Detected	14	Not Detected
Butane	4.6	Not Detected	11	Not Detected
Methylcyclohexane	4.6	Not Detected	18	Not Detected

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

Container Type: 1 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
Toluene-d8	95	70-130
1,2-Dichloroethane-d4	77	70-130
4-Bromofluorobenzene	99	70-130

Client Sample ID: VW-127(40),100109

Lab ID#: 0910190B-17A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	x101710	Date of Collection: 10/1/09 1:00:00 PM		
Dil. Factor:	2.42	Date of Analysis: 10/17/09 02:26 PM		
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.2	Not Detected	6.0	Not Detected
Freon 114	1.2	Not Detected	8.4	Not Detected
Vinyl Chloride	1.2	Not Detected	3.1	Not Detected
Bromomethane	1.2	Not Detected	4.7	Not Detected
Chloroethane	1.2	Not Detected	3.2	Not Detected
Freon 11	1.2	Not Detected	6.8	Not Detected
1,1-Dichloroethene	1.2	Not Detected	4.8	Not Detected
Freon 113	1.2	Not Detected	9.3	Not Detected
Methylene Chloride	1.2	Not Detected	4.2	Not Detected
1,1-Dichloroethane	1.2	Not Detected	4.9	Not Detected
cis-1,2-Dichloroethene	1.2	Not Detected	4.8	Not Detected
Chloroform	1.2	Not Detected	5.9	Not Detected
1,1,1-Trichloroethane	1.2	Not Detected	6.6	Not Detected
Carbon Tetrachloride	1.2	Not Detected	7.6	Not Detected
Benzene	1.2	Not Detected	3.9	Not Detected
1,2-Dichloroethane	1.2	Not Detected	4.9	Not Detected
Trichloroethene	1.2	Not Detected	6.5	Not Detected
1,2-Dichloropropane	1.2	Not Detected	5.6	Not Detected
cis-1,3-Dichloropropene	1.2	Not Detected	5.5	Not Detected
Toluene	1.2	Not Detected	4.6	Not Detected
trans-1,3-Dichloropropene	1.2	Not Detected	5.5	Not Detected
1,1,2-Trichloroethane	1.2	Not Detected	6.6	Not Detected
Tetrachloroethene	1.2	24	8.2	160
1,2-Dibromoethane (EDB)	1.2	Not Detected	9.3	Not Detected
Chlorobenzene	1.2	Not Detected	5.6	Not Detected
Ethyl Benzene	1.2	Not Detected	5.2	Not Detected
m,p-Xylene	1.2	Not Detected	5.2	Not Detected
o-Xylene	1.2	Not Detected	5.2	Not Detected
Styrene	1.2	Not Detected	5.2	Not Detected
1,1,2,2-Tetrachloroethane	1.2	Not Detected	8.3	Not Detected
1,3,5-Trimethylbenzene	1.2	Not Detected	5.9	Not Detected
1,2,4-Trimethylbenzene	1.2	Not Detected	5.9	Not Detected
1,3-Dichlorobenzene	1.2	Not Detected	7.3	Not Detected
1,4-Dichlorobenzene	1.2	Not Detected	7.3	Not Detected
alpha-Chlorotoluene	1.2	Not Detected	6.3	Not Detected
1,2-Dichlorobenzene	1.2	Not Detected	7.3	Not Detected
1,3-Butadiene	1.2	Not Detected	2.7	Not Detected
Hexane	1.2	Not Detected	4.3	Not Detected
Cyclohexane	1.2	Not Detected	4.2	Not Detected

Client Sample ID: VW-127(40),100109

Lab ID#: 0910190B-17A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	x101710	Date of Collection: 10/1/09 1:00:00 PM
Dil. Factor:	2.42	Date of Analysis: 10/17/09 02:26 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Heptane	1.2	Not Detected	5.0	Not Detected
Bromodichloromethane	1.2	Not Detected	8.1	Not Detected
Dibromochloromethane	1.2	Not Detected	10	Not Detected
Cumene	1.2	Not Detected	5.9	Not Detected
Propylbenzene	1.2	Not Detected	5.9	Not Detected
Chloromethane	4.8	Not Detected	10	Not Detected
1,2,4-Trichlorobenzene	4.8	Not Detected	36	Not Detected
Hexachlorobutadiene	4.8	Not Detected	52	Not Detected
Acetone	4.8	18	11	42
Carbon Disulfide	1.2	Not Detected	3.8	Not Detected
2-Propanol	4.8	Not Detected	12	Not Detected
trans-1,2-Dichloroethene	1.2	Not Detected	4.8	Not Detected
2-Butanone (Methyl Ethyl Ketone)	1.2	4.3	3.6	13
Tetrahydrofuran	1.2	Not Detected	3.6	Not Detected
1,4-Dioxane	4.8	Not Detected	17	Not Detected
4-Methyl-2-pentanone	1.2	Not Detected	5.0	Not Detected
2-Hexanone	4.8	Not Detected	20	Not Detected
Bromoform	1.2	Not Detected	12	Not Detected
4-Ethyltoluene	1.2	Not Detected	5.9	Not Detected
Ethanol	4.8	Not Detected	9.1	Not Detected
Methyl tert-butyl ether	1.2	Not Detected	4.4	Not Detected
3-Chloropropene	4.8	Not Detected	15	Not Detected
2,2,4-Trimethylpentane	1.2	Not Detected	5.6	Not Detected
Naphthalene	4.8	Not Detected UJ	25	Not Detected UJ
Butylbenzene	4.8	Not Detected	26	Not Detected
sec-Butylbenzene	4.8	Not Detected	26	Not Detected
Isopentane	4.8	Not Detected	14	Not Detected
Butane	4.8	Not Detected	12	Not Detected
Methylcyclohexane	4.8	Not Detected	19	Not Detected

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

Container Type: 1 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
Toluene-d8	96	70-130
1,2-Dichloroethane-d4	79	70-130
4-Bromofluorobenzene	102	70-130

Client Sample ID: VW-127(50),100109

Lab ID#: 0910190B-18A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	x101711	Date of Collection:	10/1/09 12:20:00 PM	
Dil. Factor:	2.38	Date of Analysis:	10/17/09 03:05 PM	
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.2	Not Detected	5.9	Not Detected
Freon 114	1.2	Not Detected	8.3	Not Detected
Vinyl Chloride	1.2	Not Detected	3.0	Not Detected
Bromomethane	1.2	Not Detected	4.6	Not Detected
Chloroethane	1.2	Not Detected	3.1	Not Detected
Freon 11	1.2	Not Detected	6.7	Not Detected
1,1-Dichloroethene	1.2	Not Detected	4.7	Not Detected
Freon 113	1.2	Not Detected	9.1	Not Detected
Methylene Chloride	1.2	Not Detected	4.1	Not Detected
1,1-Dichloroethane	1.2	Not Detected	4.8	Not Detected
cis-1,2-Dichloroethene	1.2	Not Detected	4.7	Not Detected
Chloroform	1.2	Not Detected	5.8	Not Detected
1,1,1-Trichloroethane	1.2	Not Detected	6.5	Not Detected
Carbon Tetrachloride	1.2	Not Detected	7.5	Not Detected
Benzene	1.2	Not Detected	3.8	Not Detected
1,2-Dichloroethane	1.2	Not Detected	4.8	Not Detected
Trichloroethene	1.2	Not Detected	6.4	Not Detected
1,2-Dichloropropane	1.2	Not Detected	5.5	Not Detected
cis-1,3-Dichloropropene	1.2	Not Detected	5.4	Not Detected
Toluene	1.2	Not Detected	4.5	Not Detected
trans-1,3-Dichloropropene	1.2	Not Detected	5.4	Not Detected
1,1,2-Trichloroethane	1.2	Not Detected	6.5	Not Detected
Tetrachloroethene	1.2	13	8.1	86
1,2-Dibromoethane (EDB)	1.2	Not Detected	9.1	Not Detected
Chlorobenzene	1.2	Not Detected	5.5	Not Detected
Ethyl Benzene	1.2	Not Detected	5.2	Not Detected
m,p-Xylene	1.2	Not Detected	5.2	Not Detected
o-Xylene	1.2	Not Detected	5.2	Not Detected
Styrene	1.2	Not Detected	5.1	Not Detected
1,1,2,2-Tetrachloroethane	1.2	Not Detected	8.2	Not Detected
1,3,5-Trimethylbenzene	1.2	Not Detected	5.8	Not Detected
1,2,4-Trimethylbenzene	1.2	Not Detected	5.8	Not Detected
1,3-Dichlorobenzene	1.2	Not Detected	7.2	Not Detected
1,4-Dichlorobenzene	1.2	Not Detected	7.2	Not Detected
alpha-Chlorotoluene	1.2	Not Detected	6.2	Not Detected
1,2-Dichlorobenzene	1.2	Not Detected	7.2	Not Detected
1,3-Butadiene	1.2	Not Detected	2.6	Not Detected
Hexane	1.2	Not Detected	4.2	Not Detected
Cyclohexane	1.2	Not Detected	4.1	Not Detected

Client Sample ID: VW-127(50),100109

Lab ID#: 0910190B-18A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	x101711	Date of Collection: 10/1/09 12:20:00 PM
Dil. Factor:	2.38	Date of Analysis: 10/17/09 03:05 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Heptane	1.2	Not Detected	4.9	Not Detected
Bromodichloromethane	1.2	Not Detected	8.0	Not Detected
Dibromochloromethane	1.2	Not Detected	10	Not Detected
Cumene	1.2	Not Detected	5.8	Not Detected
Propylbenzene	1.2	Not Detected	5.8	Not Detected
Chloromethane	4.8	Not Detected	9.8	Not Detected
1,2,4-Trichlorobenzene	4.8	Not Detected	35	Not Detected
Hexachlorobutadiene	4.8	Not Detected	51	Not Detected
Acetone	4.8	48	11	110
Carbon Disulfide	1.2	Not Detected	3.7	Not Detected
2-Propanol	4.8	Not Detected	12	Not Detected
trans-1,2-Dichloroethene	1.2	Not Detected	4.7	Not Detected
2-Butanone (Methyl Ethyl Ketone)	1.2	6.8	3.5	20
Tetrahydrofuran	1.2	Not Detected	3.5	Not Detected
1,4-Dioxane	4.8	Not Detected	17	Not Detected
4-Methyl-2-pentanone	1.2	Not Detected	4.9	Not Detected
2-Hexanone	4.8	Not Detected	19	Not Detected
Bromoform	1.2	Not Detected	12	Not Detected
4-Ethyltoluene	1.2	Not Detected	5.8	Not Detected
Ethanol	4.8	Not Detected	9.0	Not Detected
Methyl tert-butyl ether	1.2	Not Detected	4.3	Not Detected
3-Chloropropene	4.8	Not Detected	15	Not Detected
2,2,4-Trimethylpentane	1.2	Not Detected	5.6	Not Detected
Naphthalene	4.8	Not Detected UJ	25	Not Detected UJ
Butylbenzene	4.8	Not Detected	26	Not Detected
sec-Butylbenzene	4.8	Not Detected	26	Not Detected
Isopentane	4.8	Not Detected	14	Not Detected
Butane	4.8	Not Detected	11	Not Detected
Methylcyclohexane	4.8	Not Detected	19	Not Detected

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

Container Type: 1 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
Toluene-d8	97	70-130
1,2-Dichloroethane-d4	80	70-130
4-Bromofluorobenzene	102	70-130

Client Sample ID: VW-128(15),100109

Lab ID#: 0910190B-19A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	x101712	Date of Collection: 10/1/09 5:30:00 PM
Dil. Factor:	2.24	Date of Analysis: 10/17/09 04:24 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.1	2.0	5.5	10
Freon 114	1.1	Not Detected	7.8	Not Detected
Vinyl Chloride	1.1	Not Detected	2.9	Not Detected
Bromomethane	1.1	Not Detected	4.3	Not Detected
Chloroethane	1.1	Not Detected	3.0	Not Detected
Freon 11	1.1	Not Detected	6.3	Not Detected
1,1-Dichloroethene	1.1	Not Detected	4.4	Not Detected
Freon 113	1.1	Not Detected	8.6	Not Detected
Methylene Chloride	1.1	Not Detected	3.9	Not Detected
1,1-Dichloroethane	1.1	Not Detected	4.5	Not Detected
cis-1,2-Dichloroethene	1.1	Not Detected	4.4	Not Detected
Chloroform	1.1	14	5.5	70
1,1,1-Trichloroethane	1.1	Not Detected	6.1	Not Detected
Carbon Tetrachloride	1.1	Not Detected	7.0	Not Detected
Benzene	1.1	2.6	3.6	8.4
1,2-Dichloroethane	1.1	Not Detected	4.5	Not Detected
Trichloroethene	1.1	Not Detected	6.0	Not Detected
1,2-Dichloropropane	1.1	Not Detected	5.2	Not Detected
cis-1,3-Dichloropropene	1.1	Not Detected	5.1	Not Detected
Toluene	1.1	Not Detected	4.2	Not Detected
trans-1,3-Dichloropropene	1.1	Not Detected	5.1	Not Detected
1,1,2-Trichloroethane	1.1	Not Detected	6.1	Not Detected
Tetrachloroethene	1.1	Not Detected	7.6	Not Detected
1,2-Dibromoethane (EDB)	1.1	Not Detected	8.6	Not Detected
Chlorobenzene	1.1	Not Detected	5.2	Not Detected
Ethyl Benzene	1.1	Not Detected	4.9	Not Detected
m,p-Xylene	1.1	6.8	4.9	30
o-Xylene	1.1	1.4	4.9	5.9
Styrene	1.1	Not Detected	4.8	Not Detected
1,1,2,2-Tetrachloroethane	1.1	Not Detected	7.7	Not Detected
1,3,5-Trimethylbenzene	1.1	Not Detected	5.5	Not Detected
1,2,4-Trimethylbenzene	1.1	Not Detected	5.5	Not Detected
1,3-Dichlorobenzene	1.1	Not Detected	6.7	Not Detected
1,4-Dichlorobenzene	1.1	Not Detected	6.7	Not Detected
alpha-Chlorotoluene	1.1	Not Detected	5.8	Not Detected
1,2-Dichlorobenzene	1.1	Not Detected	6.7	Not Detected
1,3-Butadiene	1.1	Not Detected	2.5	Not Detected
Hexane	1.1	5.4	3.9	19
Cyclohexane	1.1	1.8	3.8	6.3

Client Sample ID: VW-128(15),100109

Lab ID#: 0910190B-19A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	x101712	Date of Collection:	10/1/09 5:30:00 PM
Dil. Factor:	2.24	Date of Analysis:	10/17/09 04:24 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Heptane	1.1	3.1	4.6	13
Bromodichloromethane	1.1	1.5	7.5	10
Dibromochloromethane	1.1	Not Detected	9.5	Not Detected
Cumene	1.1	Not Detected	5.5	Not Detected
Propylbenzene	1.1	Not Detected	5.5	Not Detected
Chloromethane	4.5	Not Detected	9.2	Not Detected
1,2,4-Trichlorobenzene	4.5	Not Detected	33	Not Detected
Hexachlorobutadiene	4.5	Not Detected	48	Not Detected
Acetone	4.5	18	11	43
Carbon Disulfide	1.1	Not Detected	3.5	Not Detected
2-Propanol	4.5	6.5	11	16
trans-1,2-Dichloroethene	1.1	Not Detected	4.4	Not Detected
2-Butanone (Methyl Ethyl Ketone)	1.1	3.3	3.3	9.8
Tetrahydrofuran	1.1	Not Detected	3.3	Not Detected
1,4-Dioxane	4.5	Not Detected	16	Not Detected
4-Methyl-2-pentanone	1.1	Not Detected	4.6	Not Detected
2-Hexanone	4.5	Not Detected	18	Not Detected
Bromoform	1.1	Not Detected	12	Not Detected
4-Ethyltoluene	1.1	1.4	5.5	6.7
Ethanol	4.5	4.7	8.4	8.9
Methyl tert-butyl ether	1.1	Not Detected	4.0	Not Detected
3-Chloropropene	4.5	Not Detected	14	Not Detected
2,2,4-Trimethylpentane	1.1	8.3	5.2	39
Naphthalene	4.5	Not Detected UJ	23	Not Detected UJ
Butylbenzene	4.5	Not Detected	24	Not Detected
sec-Butylbenzene	4.5	Not Detected	24	Not Detected
Isopentane	4.5	22	13	64
Butane	4.5	9.3	11	22
Methylcyclohexane	4.5	Not Detected	18	Not Detected

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

Container Type: 1 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
Toluene-d8	97	70-130
1,2-Dichloroethane-d4	86	70-130
4-Bromofluorobenzene	99	70-130

Client Sample ID: VW-93(5),100109

Lab ID#: 0910190B-20A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	x101713	Date of Collection: 10/1/09 9:50:00 AM
Dil. Factor:	2.16	Date of Analysis: 10/17/09 05:03 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.1	Not Detected	5.3	Not Detected
Freon 114	1.1	Not Detected	7.6	Not Detected
Vinyl Chloride	1.1	Not Detected	2.8	Not Detected
Bromomethane	1.1	Not Detected	4.2	Not Detected
Chloroethane	1.1	Not Detected	2.8	Not Detected
Freon 11	1.1	Not Detected	6.1	Not Detected
1,1-Dichloroethene	1.1	Not Detected	4.3	Not Detected
Freon 113	1.1	Not Detected	8.3	Not Detected
Methylene Chloride	1.1	Not Detected	3.8	Not Detected
1,1-Dichloroethane	1.1	Not Detected	4.4	Not Detected
cis-1,2-Dichloroethene	1.1	Not Detected	4.3	Not Detected
Chloroform	1.1	Not Detected	5.3	Not Detected
1,1,1-Trichloroethane	1.1	Not Detected	5.9	Not Detected
Carbon Tetrachloride	1.1	Not Detected	6.8	Not Detected
Benzene	1.1	Not Detected	3.4	Not Detected
1,2-Dichloroethane	1.1	Not Detected	4.4	Not Detected
Trichloroethene	1.1	Not Detected	5.8	Not Detected
1,2-Dichloropropane	1.1	Not Detected	5.0	Not Detected
cis-1,3-Dichloropropene	1.1	Not Detected	4.9	Not Detected
Toluene	1.1	Not Detected	4.1	Not Detected
trans-1,3-Dichloropropene	1.1	Not Detected	4.9	Not Detected
1,1,2-Trichloroethane	1.1	Not Detected	5.9	Not Detected
Tetrachloroethene	1.1	Not Detected	7.3	Not Detected
1,2-Dibromoethane (EDB)	1.1	Not Detected	8.3	Not Detected
Chlorobenzene	1.1	Not Detected	5.0	Not Detected
Ethyl Benzene	1.1	Not Detected	4.7	Not Detected
m,p-Xylene	1.1	Not Detected	4.7	Not Detected
o-Xylene	1.1	Not Detected	4.7	Not Detected
Styrene	1.1	Not Detected	4.6	Not Detected
1,1,2,2-Tetrachloroethane	1.1	Not Detected	7.4	Not Detected
1,3,5-Trimethylbenzene	1.1	Not Detected	5.3	Not Detected
1,2,4-Trimethylbenzene	1.1	Not Detected	5.3	Not Detected
1,3-Dichlorobenzene	1.1	Not Detected	6.5	Not Detected
1,4-Dichlorobenzene	1.1	Not Detected	6.5	Not Detected
alpha-Chlorotoluene	1.1	Not Detected	5.6	Not Detected
1,2-Dichlorobenzene	1.1	Not Detected	6.5	Not Detected
1,3-Butadiene	1.1	Not Detected	2.4	Not Detected
Hexane	1.1	Not Detected	3.8	Not Detected
Cyclohexane	1.1	Not Detected	3.7	Not Detected

Client Sample ID: VW-93(5),100109

Lab ID#: 0910190B-20A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	x101713	Date of Collection: 10/1/09 9:50:00 AM
Dil. Factor:	2.16	Date of Analysis: 10/17/09 05:03 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Heptane	1.1	Not Detected	4.4	Not Detected
Bromodichloromethane	1.1	Not Detected	7.2	Not Detected
Dibromochloromethane	1.1	Not Detected	9.2	Not Detected
Cumene	1.1	Not Detected	5.3	Not Detected
Propylbenzene	1.1	Not Detected	5.3	Not Detected
Chloromethane	4.3	Not Detected	8.9	Not Detected
1,2,4-Trichlorobenzene	4.3	Not Detected	32	Not Detected
Hexachlorobutadiene	4.3	Not Detected	46	Not Detected
Acetone	4.3	11	10	26
Carbon Disulfide	1.1	Not Detected	3.4	Not Detected
2-Propanol	4.3	Not Detected	11	Not Detected
trans-1,2-Dichloroethene	1.1	Not Detected	4.3	Not Detected
2-Butanone (Methyl Ethyl Ketone)	1.1	2.3	3.2	6.7
Tetrahydrofuran	1.1	Not Detected	3.2	Not Detected
1,4-Dioxane	4.3	Not Detected	16	Not Detected
4-Methyl-2-pentanone	1.1	Not Detected	4.4	Not Detected
2-Hexanone	4.3	Not Detected	18	Not Detected
Bromoform	1.1	Not Detected	11	Not Detected
4-Ethyltoluene	1.1	Not Detected	5.3	Not Detected
Ethanol	4.3	Not Detected	8.1	Not Detected
Methyl tert-butyl ether	1.1	Not Detected	3.9	Not Detected
3-Chloropropene	4.3	Not Detected	14	Not Detected
2,2,4-Trimethylpentane	1.1	Not Detected	5.0	Not Detected
Naphthalene	4.3	Not Detected UJ	23	Not Detected UJ
Butylbenzene	4.3	Not Detected	24	Not Detected
sec-Butylbenzene	4.3	Not Detected	24	Not Detected
Isopentane	4.3	Not Detected	13	Not Detected
Butane	4.3	Not Detected	10	Not Detected
Methylcyclohexane	4.3	Not Detected	17	Not Detected

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

Container Type: 1 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
Toluene-d8	96	70-130
1,2-Dichloroethane-d4	86	70-130
4-Bromofluorobenzene	95	70-130

Client Sample ID: BD1,100109

Lab ID#: 0910190B-21A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	x101714	Date of Collection:	10/1/09
Dil. Factor:	2.42	Date of Analysis:	10/17/09 05:40 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.2	Not Detected	6.0	Not Detected
Freon 114	1.2	Not Detected	8.4	Not Detected
Vinyl Chloride	1.2	Not Detected	3.1	Not Detected
Bromomethane	1.2	Not Detected	4.7	Not Detected
Chloroethane	1.2	Not Detected	3.2	Not Detected
Freon 11	1.2	Not Detected	6.8	Not Detected
1,1-Dichloroethene	1.2	Not Detected	4.8	Not Detected
Freon 113	1.2	Not Detected	9.3	Not Detected
Methylene Chloride	1.2	Not Detected	4.2	Not Detected
1,1-Dichloroethane	1.2	Not Detected	4.9	Not Detected
cis-1,2-Dichloroethene	1.2	Not Detected	4.8	Not Detected
Chloroform	1.2	Not Detected	5.9	Not Detected
1,1,1-Trichloroethane	1.2	Not Detected	6.6	Not Detected
Carbon Tetrachloride	1.2	Not Detected	7.6	Not Detected
Benzene	1.2	1.4	3.9	4.6
1,2-Dichloroethane	1.2	Not Detected	4.9	Not Detected
Trichloroethene	1.2	Not Detected	6.5	Not Detected
1,2-Dichloropropane	1.2	Not Detected	5.6	Not Detected
cis-1,3-Dichloropropene	1.2	Not Detected	5.5	Not Detected
Toluene	1.2	Not Detected	4.6	Not Detected
trans-1,3-Dichloropropene	1.2	Not Detected	5.5	Not Detected
1,1,2-Trichloroethane	1.2	Not Detected	6.6	Not Detected
Tetrachloroethene	1.2	23	8.2	160
1,2-Dibromoethane (EDB)	1.2	Not Detected	9.3	Not Detected
Chlorobenzene	1.2	Not Detected	5.6	Not Detected
Ethyl Benzene	1.2	2.2	5.2	9.5
m,p-Xylene	1.2	4.9	5.2	21
o-Xylene	1.2	Not Detected	5.2	Not Detected
Styrene	1.2	Not Detected	5.2	Not Detected
1,1,2,2-Tetrachloroethane	1.2	Not Detected	8.3	Not Detected
1,3,5-Trimethylbenzene	1.2	Not Detected	5.9	Not Detected
1,2,4-Trimethylbenzene	1.2	2.6	5.9	13
1,3-Dichlorobenzene	1.2	Not Detected	7.3	Not Detected
1,4-Dichlorobenzene	1.2	Not Detected	7.3	Not Detected
alpha-Chlorotoluene	1.2	Not Detected	6.3	Not Detected
1,2-Dichlorobenzene	1.2	Not Detected	7.3	Not Detected
1,3-Butadiene	1.2	Not Detected	2.7	Not Detected
Hexane	1.2	Not Detected	4.3	Not Detected
Cyclohexane	1.2	Not Detected	4.2	Not Detected

Client Sample ID: BD1,100109

Lab ID#: 0910190B-21A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	x101714	Date of Collection:	10/1/09
Dil. Factor:	2.42	Date of Analysis:	10/17/09 05:40 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Heptane	1.2	Not Detected	5.0	Not Detected
Bromodichloromethane	1.2	Not Detected	8.1	Not Detected
Dibromochloromethane	1.2	Not Detected	10	Not Detected
Cumene	1.2	Not Detected	5.9	Not Detected
Propylbenzene	1.2	Not Detected	5.9	Not Detected
Chloromethane	4.8	Not Detected	10	Not Detected
1,2,4-Trichlorobenzene	4.8	Not Detected	36	Not Detected
Hexachlorobutadiene	4.8	Not Detected	52	Not Detected
Acetone	4.8	14	11	34
Carbon Disulfide	1.2	Not Detected	3.8	Not Detected
2-Propanol	4.8	Not Detected	12	Not Detected
trans-1,2-Dichloroethene	1.2	Not Detected	4.8	Not Detected
2-Butanone (Methyl Ethyl Ketone)	1.2	2.2	3.6	6.6
Tetrahydrofuran	1.2	Not Detected	3.6	Not Detected
1,4-Dioxane	4.8	Not Detected	17	Not Detected
4-Methyl-2-pentanone	1.2	Not Detected	5.0	Not Detected
2-Hexanone	4.8	Not Detected	20	Not Detected
Bromoform	1.2	Not Detected	12	Not Detected
4-Ethyltoluene	1.2	1.8	5.9	9.1
Ethanol	4.8	Not Detected	9.1	Not Detected
Methyl tert-butyl ether	1.2	Not Detected	4.4	Not Detected
3-Chloropropene	4.8	Not Detected	15	Not Detected
2,2,4-Trimethylpentane	1.2	Not Detected	5.6	Not Detected
Naphthalene	4.8	Not Detected UJ	25	Not Detected UJ
Butylbenzene	4.8	Not Detected	26	Not Detected
sec-Butylbenzene	4.8	Not Detected	26	Not Detected
Isopentane	4.8	Not Detected	14	Not Detected
Butane	4.8	Not Detected	12	Not Detected
Methylcyclohexane	4.8	Not Detected	19	Not Detected

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

Container Type: 1 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
Toluene-d8	98	70-130
1,2-Dichloroethane-d4	84	70-130
4-Bromofluorobenzene	100	70-130

Client Sample ID: Lab Blank

Lab ID#: 0910190B-22A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	x101611c	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 10/16/09 10:39 AM

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

Client Sample ID: Lab Blank

Lab ID#: 0910190B-22A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	x101611c	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 10/16/09 10:39 AM

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
Butylbenzene	2.0	Not Detected	11	Not Detected
sec-Butylbenzene	2.0	Not Detected	11	Not Detected
Isopentane	2.0	Not Detected	5.9	Not Detected
Butane	2.0	Not Detected	4.8	Not Detected
Methylcyclohexane	2.0	Not Detected	8.0	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	96	70-130
1,2-Dichloroethane-d4	81	70-130
4-Bromofluorobenzene	95	70-130

Client Sample ID: Lab Blank

Lab ID#: 0910190B-22B

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	x101708	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 10/17/09 12:48 PM

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

Client Sample ID: Lab Blank

Lab ID#: 0910190B-22B

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	x101708	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 10/17/09 12:48 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 UJ	10	Not Detected UJ
Butylbenzene	2.0	Not Detected	11	Not Detected
sec-Butylbenzene	2.0	Not Detected	11	Not Detected
Isopentane	2.0	Not Detected	5.9	Not Detected
Butane	2.0	Not Detected	4.8	Not Detected
Methylcyclohexane	2.0	Not Detected	8.0	Not Detected

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

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	95	70-130
1,2-Dichloroethane-d4	77	70-130
4-Bromofluorobenzene	96	70-130

Client Sample ID: CCV

Lab ID#: 0910190B-23A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	x101602	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 10/16/09 01:06 AM

Compound	%Recovery
Freon 12	95
Freon 114	102
Vinyl Chloride	92
Bromomethane	107
Chloroethane	96
Freon 11	92
1,1-Dichloroethene	90
Freon 113	103
Methylene Chloride	86
1,1-Dichloroethane	90
cis-1,2-Dichloroethene	99
Chloroform	90
1,1,1-Trichloroethane	94
Carbon Tetrachloride	96
Benzene	100
1,2-Dichloroethane	88
Trichloroethene	99
1,2-Dichloropropane	97
cis-1,3-Dichloropropene	101
Toluene	104
trans-1,3-Dichloropropene	99
1,1,2-Trichloroethane	101
Tetrachloroethene	109
1,2-Dibromoethane (EDB)	101
Chlorobenzene	104
Ethyl Benzene	104
m,p-Xylene	108
o-Xylene	106
Styrene	110
1,1,2,2-Tetrachloroethane	92
1,3,5-Trimethylbenzene	86
1,2,4-Trimethylbenzene	92
1,3-Dichlorobenzene	97
1,4-Dichlorobenzene	99
alpha-Chlorotoluene	101
1,2-Dichlorobenzene	96
1,3-Butadiene	97
Hexane	94
Cyclohexane	100

Client Sample ID: CCV

Lab ID#: 0910190B-23A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	x101602	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 10/16/09 01:06 AM

Compound	%Recovery
Heptane	104
Bromodichloromethane	95
Dibromochloromethane	106
Cumene	102
Propylbenzene	98
Chloromethane	92
1,2,4-Trichlorobenzene	88
Hexachlorobutadiene	86
Acetone	94
Carbon Disulfide	100
2-Propanol	86
trans-1,2-Dichloroethene	98
2-Butanone (Methyl Ethyl Ketone)	98
Tetrahydrofuran	90
1,4-Dioxane	98
4-Methyl-2-pentanone	102
2-Hexanone	95
Bromoform	113
4-Ethyltoluene	110
Ethanol	86
Methyl tert-butyl ether	109
3-Chloropropene	98
2,2,4-Trimethylpentane	95
Naphthalene	71
Butylbenzene	93
sec-Butylbenzene	109
Isopentane	88
Butane	96
Methylcyclohexane	101

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	101	70-130
1,2-Dichloroethane-d4	78	70-130
4-Bromofluorobenzene	103	70-130

Client Sample ID: CCV

Lab ID#: 0910190B-23B

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	x101702	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 10/17/09 08:46 AM

Compound	%Recovery
Freon 12	102
Freon 114	107
Vinyl Chloride	97
Bromomethane	109
Chloroethane	100
Freon 11	89
1,1-Dichloroethene	87
Freon 113	102
Methylene Chloride	86
1,1-Dichloroethane	89
cis-1,2-Dichloroethene	97
Chloroform	86
1,1,1-Trichloroethane	88
Carbon Tetrachloride	90
Benzene	100
1,2-Dichloroethane	85
Trichloroethene	97
1,2-Dichloropropane	99
cis-1,3-Dichloropropene	99
Toluene	102
trans-1,3-Dichloropropene	100
1,1,2-Trichloroethane	104
Tetrachloroethene	115
1,2-Dibromoethane (EDB)	102
Chlorobenzene	104
Ethyl Benzene	105
m,p-Xylene	107
o-Xylene	106
Styrene	108
1,1,2,2-Tetrachloroethane	89
1,3,5-Trimethylbenzene	85
1,2,4-Trimethylbenzene	90
1,3-Dichlorobenzene	95
1,4-Dichlorobenzene	97
alpha-Chlorotoluene	98
1,2-Dichlorobenzene	94
1,3-Butadiene	100
Hexane	93
Cyclohexane	99

Client Sample ID: CCV

Lab ID#: 0910190B-23B

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	x101702	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 10/17/09 08:46 AM

Compound	%Recovery
Heptane	103
Bromodichloromethane	92
Dibromochloromethane	107
Cumene	101
Propylbenzene	96
Chloromethane	98
1,2,4-Trichlorobenzene	84
Hexachlorobutadiene	84
Acetone	96
Carbon Disulfide	100
2-Propanol	85
trans-1,2-Dichloroethene	97
2-Butanone (Methyl Ethyl Ketone)	96
Tetrahydrofuran	89
1,4-Dioxane	97
4-Methyl-2-pentanone	101
2-Hexanone	96
Bromoform	111
4-Ethyltoluene	107
Ethanol	89
Methyl tert-butyl ether	105
3-Chloropropene	97
2,2,4-Trimethylpentane	92
Naphthalene	66 Q
Butylbenzene	90
sec-Butylbenzene	103
Isopentane	91
Butane	98
Methylcyclohexane	98

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	99	70-130
1,2-Dichloroethane-d4	74	70-130
4-Bromofluorobenzene	102	70-130

Client Sample ID: LCS

Lab ID#: 0910190B-24A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	x101604	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 10/16/09 03:02 AM

Compound	%Recovery
Freon 12	75
Freon 114	86
Vinyl Chloride	77
Bromomethane	91
Chloroethane	83
Freon 11	77
1,1-Dichloroethene	85
Freon 113	100
Methylene Chloride	81
1,1-Dichloroethane	83
cis-1,2-Dichloroethene	90
Chloroform	80
1,1,1-Trichloroethane	82
Carbon Tetrachloride	83
Benzene	90
1,2-Dichloroethane	78
Trichloroethene	88
1,2-Dichloropropane	88
cis-1,3-Dichloropropene	89
Toluene	98
trans-1,3-Dichloropropene	89
1,1,2-Trichloroethane	92
Tetrachloroethene	101
1,2-Dibromoethane (EDB)	88
Chlorobenzene	92
Ethyl Benzene	92
m,p-Xylene	94
o-Xylene	94
Styrene	96
1,1,2,2-Tetrachloroethane	79
1,3,5-Trimethylbenzene	74
1,2,4-Trimethylbenzene	77
1,3-Dichlorobenzene	81
1,4-Dichlorobenzene	82
alpha-Chlorotoluene	88
1,2-Dichlorobenzene	79
1,3-Butadiene	80
Hexane	84
Cyclohexane	89

Client Sample ID: LCS

Lab ID#: 0910190B-24A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	x101604	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 10/16/09 03:02 AM

Compound	%Recovery
Heptane	92
Bromodichloromethane	85
Dibromochloromethane	95
Cumene	91
Propylbenzene	87
Chloromethane	76
1,2,4-Trichlorobenzene	70
Hexachlorobutadiene	70
Acetone	86
Carbon Disulfide	89
2-Propanol	80
trans-1,2-Dichloroethene	88
2-Butanone (Methyl Ethyl Ketone)	89
Tetrahydrofuran	81
1,4-Dioxane	89
4-Methyl-2-pentanone	94
2-Hexanone	88
Bromoform	99
4-Ethyltoluene	95
Ethanol	51 Q
Methyl tert-butyl ether	95
3-Chloropropene	85
2,2,4-Trimethylpentane	84
Naphthalene	66
Butylbenzene	Not Spiked
sec-Butylbenzene	Not Spiked
Isopentane	75
Butane	79
Methylcyclohexane	91

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	102	70-130
1,2-Dichloroethane-d4	75	70-130
4-Bromofluorobenzene	103	70-130

Client Sample ID: LCS

Lab ID#: 0910190B-24B

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	x101704	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 10/17/09 10:00 AM

Compound	%Recovery
Freon 12	67 O
Freon 114	81
Vinyl Chloride	74
Bromomethane	90
Chloroethane	82
Freon 11	74
1,1-Dichloroethene	80
Freon 113	100
Methylene Chloride	80
1,1-Dichloroethane	81
cis-1,2-Dichloroethene	89
Chloroform	79
1,1,1-Trichloroethane	80
Carbon Tetrachloride	82
Benzene	89
1,2-Dichloroethane	74
Trichloroethene	88
1,2-Dichloropropane	86
cis-1,3-Dichloropropene	88
Toluene	96
trans-1,3-Dichloropropene	88
1,1,2-Trichloroethane	92
Tetrachloroethene	104
1,2-Dibromoethane (EDB)	87
Chlorobenzene	91
Ethyl Benzene	91
m,p-Xylene	92
o-Xylene	91
Styrene	94
1,1,2,2-Tetrachloroethane	76
1,3,5-Trimethylbenzene	73
1,2,4-Trimethylbenzene	76
1,3-Dichlorobenzene	82
1,4-Dichlorobenzene	82
alpha-Chlorotoluene	85
1,2-Dichlorobenzene	79
1,3-Butadiene	75
Hexane	86
Cyclohexane	89

Client Sample ID: LCS

Lab ID#: 0910190B-24B

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	x101704	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 10/17/09 10:00 AM

Compound	%Recovery
Heptane	92
Bromodichloromethane	82
Dibromochloromethane	95
Cumene	89
Propylbenzene	84
Chloromethane	71
1,2,4-Trichlorobenzene	68 Q
Hexachlorobutadiene	68 Q
Acetone	84
Carbon Disulfide	86
2-Propanol	78
trans-1,2-Dichloroethene	86
2-Butanone (Methyl Ethyl Ketone)	90
Tetrahydrofuran	81
1,4-Dioxane	89
4-Methyl-2-pentanone	93
2-Hexanone	86
Bromoform	97
4-Ethyltoluene	95
Ethanol	51 Q
Methyl tert-butyl ether	92
3-Chloropropene	84
2,2,4-Trimethylpentane	83
Naphthalene	63
Butylbenzene	Not Spiked
sec-Butylbenzene	Not Spiked
Isopentane	72
Butane	72
Methylcyclohexane	90

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	100	70-130
1,2-Dichloroethane-d4	74	70-130
4-Bromofluorobenzene	102	70-130