



PRECISION
ENVIRONMENTAL SERVICES, INC.

831 RT. 67, LOT 38 A
BALLSTON SPA, NY 12020
TEL: 518-885-4399
FAX: 518-885-4416

CERTIFIED WOMEN-OWNED BUSINESS ENTERPRISE



December 13, 2013

Mr. Ralph Keating
New York State Department of Environmental Conservation – Central Office
625 Broadway
Albany, NY 12233

**RE: Subsurface Air Sampling
Sulzer Turbosystems
7 Northway Lane, Latham, NY
NYSDEC Site No.: 401038**

Dear Mr. Keating,

This letter serves as a summary report for the recent subsurface air sampling event performed by Precision Environmental Services (PES) at the above referenced site. The subsurface air sampling event was conducted on November 9, 2013 and consisted of the installation of two temporary air sampling points and sampling of these points as well as ambient air for analysis by EPA method TO-15 (VOCs).

1.0 Soil Vapor Point Installation:

On November 9, 2013 PES installed two (2) soil vapor collection probes at The Site. Each soil vapor probe was installed utilizing direct push technology. Soil vapor probes were installed utilizing steel rods equipped with detachable stainless steel drive points. Drive points were advanced to 4 foot depth (see Table 1 for detail), at which time the drive rod was retracted revealing a six-inch long, double braided, stainless steel, sampling screen attached to dedicated Teflon-lined tubing of laboratory grade. The annular space surrounding the sampling screen was then backfilled with glass beads. A bentonite seal was then placed above the glass beads to prevent the infiltration of ambient air into the sample screen. Sample locations can be seen as Figure-1. A drilling log summary can be seen as Figure-2.

TABLE 1: Soil Vapor Collection Probe Construction Summary

Boring/Well ID	Total Depth (feet)	Screen Interval (feet)
VP-1	4	3.5-4'
VP-2	4	3.5-4'

2.0 Soil Vapor Point Installation:

Following vapor probe installation, PES collected soil vapor samples from the two soil vapor sample points upon installation. The protocol utilized during sample collection was in conformance with the New York State Department of Health (NYSDOH) document entitled 'Guidance for Evaluating Soil Vapor Intrusion in the State of New York', dated October 2006.

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Prior to collection of soil vapor samples, vapor collection implants were purged to ensure an accurate representative sample was obtained from the vadose zone. Three implant volumes (volume of sample tube and screen) were purged utilizing a peristaltic pump at a flow rate of 0.2 liters per minute. At the time of purging, helium was utilized as a tracer gas to evaluate the integrity of the implant and bentonite seal thereby ensuring that ambient air is not being introduced into the sample. The tracer gas was administered utilizing a helium-enriched shroud that was employed over the implant. Pre and post sampling purge air was monitored in real time utilizing a helium detector. Results of real time monitoring indicate that implant integrity was maintained throughout the sampling process as helium was not detected in the purge air for any of the soil vapor probes.

In addition to tracer gas monitoring, purge air was also monitored in real time for VOC's utilizing a PID that is capable of detecting VOC's down to one (1) part per billion. The results of this screening process have been presented below in Table 2.

TABLE 2: Soil Vapor Sample Screening Results*

Sample ID	Concentration (ppb)
VP-1	0
VP-2	0
AA-1	0

NOTE *: All results obtained by RAE system
model PGM-7240 parts per billion VOC Monitor

In addition to the soil vapor probe samples, a single outdoor ambient air sample AA-1 was also concurrently collected. The ambient sample was placed between the two vapor point locations (VP-1 and VP-2), to document local background levels of contaminants. Sample locations have been depicted in Figure 1.

Air samples were collected in laboratory-supplied, certified clean, six-liter, stainless steel, Summa canisters. Each canister was equipped with a flow control regulator pre-calibrated by the laboratory to run for a pre-determined 2-hour interval. Test America Laboratories of Knoxville, TN provided the sampling media and performed the analysis on all samples collected. Samples were submitted for VOC analysis by EPA Method TO-15, which is capable of achieving a detection limit down to .5 to 1 $\mu\text{g}/\text{m}^3$ for most target compounds. All samples were collected in concert for the duration of two hours. It should be noted that PES personnel observed the sample collection rate of VP-1 to be considerably slower than the sample collection rate of VP-2 and AA-1 due to a faulty regulator. PES personnel changed the regulator of VP-1 mid-sample to remedy this issue.

3.0 Laboratory Analytical Results:

As shown in Table 1 the sample AA-1, which served as an ambient air sample, detected numerous target compounds above laboratory detection limits. Sample results from soil vapor probes VP-1, and VP-2 also contained numerous target compounds above laboratory detection limits. A summary of analytical results can be seen as Table-1. The lab report from Test America can be seen as Attachment-1.

4.0 Conclusions:

As directed by the NYSDEC, on November 9, 2013 PES installed two (2) soil vapor collection probes to a depth of 4 foot. Soil vapor samples were collected from the probes for analysis via EPA Method TO-15. In addition to subsurface vapor sampling, PES collected ambient air sample AA-1 between VP-1 and VP-2.

PES greatly appreciates the continued opportunity to provide environmental services to the New York State Department of Environmental Conservation. If you have any questions concerning report, please call the undersigned at (518) 885-4399.

Sincerely

PRECISION ENVIRONMENTAL SERVICES, INC.



Andrew Mollica
Project Manager



Stephen M. Phelps
Senior Project Manager

FIGURES



Roof Drain Lines

Catch Basin

LEGEND:



Soil Vapor Sampling Point



Ambient Air Sampling Point



Onsite Structure

Storage Area

VP-2

AA-1

VP-1

Storage Area

Grassy Area

Building

Northway Lane



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SAMPLE LOCATION MAP

Sulzer Turbosystems

LOCATION: 7 Northway Lane, Latham, NY

NYSDEC Site #: 401038

DATE: 11-9-2013

FIGURE: 1

SCALE: NTS



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DRILLING LOG

Page 1 of 2

Boring/Well No.: VP-1

Project: Sulzer Turbosystems Client: NYSDEC Central Office
Project No: 41038 Location: 7 Northway Lane, Latham, NY
Driller: M. Dudley Logged by: A. Mollica
Drilling Contractor: PES Drilling Method: Direct Push
Date Drilled: 11/9/13 Date Developed: 11/9/13
TOC Elevation: N/A Total Depth of Hole: 4'
Boring Diameter: 1.25" Screen Diameter: 0.25" Interval: 3.5-4'
Slot Size: 0.0075" Riser Diameter: 0.25" Interval: -2'-3.5'
Type: Stainless Steel Sand Pack: 3-4' Bentonite Seal: 0-3'
Protective Casing: N/A

See Site Map for Location Detail

Depth (ft.)	Well Construction	Helium Recovery	Sample Type/ #	PID (ppm)	Description
— 0		0 PPM	0-4'	ND	Sample Start: 09:52 @ -29" HG
— 1					Sample Stop: 11:15 @ -26" HG
— 2					Sample Restart: 11:15 @ -26" HG
— 3					Sample Stop: 11:58 @ -19.5" HG
— 4					
— 5					
— 6					Some moisture present in tubing during sample.
— 7					
— 8					Approximately 1 liter purged from VP-1 prior to sample @ 0.2L/minute.
— 9					
— 10					
— 11					
— 12					
— 13					
— 14					
— 15					
— 16					
— 17					
— 18					
— 19					
— 20					
— 21					
— 22					
— 23					Canister #: 10472
— 24					Regulator #: 10874
— 25					Alternate Regulator #: 10300
— 26					
— 27					
— 28					Note: Ambient Air sample AA-1 utilized Regulator # 09706 and Air Canister #10686
— 29					
— 30					
— 31					
— 32					

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TABLES

Subsurface Vapor Investigation Report of Findings

TABLE 1			
Laboratory Analytical Summary			
Compound	Sample Identification/Location		
	VP-1	VP-2	AA-1
Volatiles - EPA TO15			
1,1,1-Trichloroethane	.77	ND	ND
1,1,2,2-Tetrachloroethane	ND	ND	ND
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	ND	ND
1,1,2-Trichloroethane	ND	.64	.65
1,1-Dichloroethane	ND	ND	ND
1,1-Dichloroethene	ND	ND	ND
1,2,4-Trichlorobenzene	ND	ND	ND
1,2,4-Trimethylbenzene	ND	ND	ND
1,2-Dibromoethane (Ethylene Dibromide)	ND	ND	ND
1,2-Dichlorobenzene	ND	ND	ND
1,2-Dichloroethane	ND	ND	ND
1,2-Dichloropropane	ND	ND	ND
1,2-Dichlorotetrafluoroethane	ND	ND	ND
1,3,5-Trimethylbenzene (Mesitylene)	ND	ND	ND
1,3-Dichlorobenzene	ND	ND	ND
1,4-Dichlorobenzene	ND	ND	ND
1,4-Dioxane (P-Dioxane)	ND	ND	ND
2,2,4-Trimethylpentane	ND	ND	ND
2-Butanone	2.8	ND	1.7
4-Methyl-2-Pentanone	ND	ND	ND
Benzene	.79	.45	.33
Benzyl Chloride	ND	ND	ND
Bromodichloromethane	ND	ND	ND
Bromoform	ND	ND	ND
Bromomethane	ND	ND	ND
Carbon Tetrachloride	.43	.47	.56
Chlorobenzene	ND	ND	ND
Chloroethane	ND	ND	ND
Chloroform	ND	ND	ND
Chloromethane	1.3	1.2	1.2
Cis-1,2-Dichloroethylene	ND	ND	ND
Cis-1,3-Dichloropropene	ND	ND	ND
Cyclohexane	ND	ND	ND
Dibromochloromethane	ND	ND	ND
Dichlorodifluoromethane	2.9	2.4	3.0
Ethanol	ND	3.1	3.2
Ethylbenzene	ND	ND	ND
Hexachlorobutadiene	ND	ND	ND
Hexane	1.8	ND	ND
Methyl Tert-Butyl Ether	ND	ND	ND
Methylene Chloride	2.7	1.1	1.0
M,P-Xylenes	1.0	1.2	ND
O-Xylene (1,2-Dimethylbenzene)	ND	ND	ND
Styrene	ND	ND	ND
T-Butyl Alcohol	ND	ND	ND
Tetrachloroethylene	.93	1.0	ND
Toluene	4.1	1.2	0.65
Trans-1,2-Dichloroethene	ND	ND	ND
Trans-1,3-Dichloropropene	ND	ND	ND
Trichloroethylene	2.3	ND	ND
Trichlorofluoromethane	1.8	1.6	1.7
Vinyl Chloride	ND	ND	ND

NOTES:

- All results reported in $\mu\text{g}/\text{m}^3$
- Analysis via EPA Method TO-15
- Analytical Facility - Test America, Inc. of Knoxville, Tennessee
- ND= Analyte included in the analysis, but not detected
- Samples collected on November 9, 2013

ATTACHMENTS

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Knoxville
5815 Middlebrook Pike
Knoxville, TN 37921
Tel: (865)291-3000

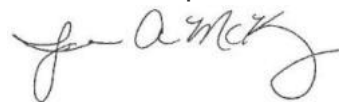
TestAmerica Job ID: 140-429-1

Client Project/Site: Sulzer Turbosystems #401038

For:

New York State D.E.C.
625 Broadway
11th Floor
Albany, New York 12233-3256

Attn: Mr. Ralph X Keating



Authorized for release by:
11/21/2013 11:36:36 AM

Jamie McKinney, Senior Project Manager
(865)291-3000
jamie.mckinney@testamericainc.com

LINKS

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The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Definitions/Glossary

Client: New York State D.E.C.
Project/Site: Sulzer Turbosystems #401038

TestAmerica Job ID: 140-429-1

Qualifiers

Air - GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD exceeds the control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Case Narrative

Client: New York State D.E.C.
Project/Site: Sulzer Turbosystems #401038

TestAmerica Job ID: 140-429-1

Job ID: 140-429-1

Laboratory: TestAmerica Knoxville

Narrative

Job Narrative 140-429-1

Comments

No additional comments.

Receipt

The samples were received on 11/12/2013 10:20 AM; the samples arrived in good condition, properly preserved and, where required, on ice.

Air - GC/MS VOA

Quantitation for ethanol was previously based on a one-point calibration standard at the reporting limit. This compound was quantitated based on a minimum 5-point calibration curve. The following interim criteria are being used until the method performance for this additional analyte is fully established:

- The initial calibration acceptance criteria is set at 40% RSD. Any compound greater than 40% RSD was changed to a linear or quadratic model with an $r^2 \geq 0.990$ acceptance criteria.
- There are no criteria for second source standard verification % D. The second source standard was independently prepared from the same parent mixture (as the primary source).
- The continuing calibration verification criteria are set at 50% D. Any compound greater than 50% D must pass the LCS criteria.
- The LCS recovery criteria are set at 20% to 180%.
- A method detection limit study has not been performed. The detection of the analytes is demonstrated by detection of the calibration standard at the reporting limit. No estimated results are reported below the reporting limit.

Method(s) TO 15 LL: Sample VP-1 (140-429-1) was reported with elevated reporting limits for all analytes due to the limited amount of sample received. The flow controller was also checked upon receipt and was confirmed to be working properly.

Method(s) TO 15 LL, TO-15: EPA methods TO-14A and TO-15 specify the use of humidified "zero air" as the blank reagent for canister cleaning, instrument calibration and sample analysis. Ultra-high purity humidified nitrogen from a cryogenic reservoir is used in place of "zero air" by TestAmerica Knoxville.

The continuing calibration verification (CCV) associated with batch 417 exhibited % difference of > 30% for the following analyte 1,2-dichlorotetrafluoroethane, however the results were within the LCS acceptance limits. The EPA method requires that all target analytes in the continuing calibration verification standard be within 30% difference from the initial calibration. According to the laboratory standard operating procedure, the continuing calibration is acceptable if it meets the laboratory control sample acceptance criteria.

Method(s) TO 15 LL: The continuing calibration verification (CCV) associated with batch 418 exhibited % difference of > 30% for the following analyte(s), dichlorodifluoromethane, 4-methyl-2-pentanone and hexachlorobutadiene, however the results were within the LCS acceptance limits. The EPA method requires that all target analytes in the continuing calibration verification standard be within 30% difference from the initial calibration. According to the laboratory standard operating procedure, the continuing calibration is acceptable if it meets the laboratory control sample acceptance criteria.

Method(s) TO 15 LL, TO-15: A full list spike was utilized for this method. Due to the large number of spiked analytes, there is a high probability that one or more analytes will recover outside acceptance limits. The laboratory's SOP allows for three analytes to recover outside criteria for this method when a full list spike is utilized. The LCS associated with batch 418 had 1,2-dichlorotetrafluoroethane, bromomethane and trichlorofluoromethane outside control limits; therefore, re-extraction/re-analysis was not performed. These results have been reported and qualified.

No other analytical or quality issues were noted.

Can Certification Comments

Due to the large number of analytes in the CCV, there is a high probability that one or more analytes will recover outside acceptance limits. The laboratory's SOP allows for several analytes to recover outside criteria for this method when analyzing for a full list. The CCV associated with the can cleaning batches had analytes outside control limits. These results have been reported and qualified.

Detection Summary

Client: New York State D.E.C.
Project/Site: Sulzer Turbosystems #401038

TestAmerica Job ID: 140-429-1

Client Sample ID: VP-1

Lab Sample ID: 140-429-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	0.14		0.11		ppb v/v	2.76		TO 15 LL	Total/NA
2-Butanone	0.95		0.44		ppb v/v	2.76		TO 15 LL	Total/NA
Benzene	0.25		0.11		ppb v/v	2.76		TO 15 LL	Total/NA
Carbon tetrachloride	0.069		0.055		ppb v/v	2.76		TO 15 LL	Total/NA
Chloromethane	0.62		0.28		ppb v/v	2.76		TO 15 LL	Total/NA
Dichlorodifluoromethane	0.59		0.11		ppb v/v	2.76		TO 15 LL	Total/NA
Hexane	0.50		0.28		ppb v/v	2.76		TO 15 LL	Total/NA
Methylene Chloride	0.78		0.28		ppb v/v	2.76		TO 15 LL	Total/NA
m-Xylene & p-Xylene	0.23		0.11		ppb v/v	2.76		TO 15 LL	Total/NA
Tetrachloroethene	0.14		0.11		ppb v/v	2.76		TO 15 LL	Total/NA
Toluene	1.1		0.17		ppb v/v	2.76		TO 15 LL	Total/NA
Trichloroethene	0.42		0.055		ppb v/v	2.76		TO 15 LL	Total/NA
Trichlorofluoromethane	0.33		0.11		ppb v/v	2.76		TO 15 LL	Total/NA
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	0.77		0.60		ug/m3	2.76		TO 15 LL	Total/NA
2-Butanone	2.8		1.3		ug/m3	2.76		TO 15 LL	Total/NA
Benzene	0.79		0.35		ug/m3	2.76		TO 15 LL	Total/NA
Carbon tetrachloride	0.43		0.35		ug/m3	2.76		TO 15 LL	Total/NA
Chloromethane	1.3		0.57		ug/m3	2.76		TO 15 LL	Total/NA
Dichlorodifluoromethane	2.9		0.55		ug/m3	2.76		TO 15 LL	Total/NA
Hexane	1.8		0.97		ug/m3	2.76		TO 15 LL	Total/NA
Methylene Chloride	2.7		0.96		ug/m3	2.76		TO 15 LL	Total/NA
m-Xylene & p-Xylene	1.0		0.48		ug/m3	2.76		TO 15 LL	Total/NA
Tetrachloroethene	0.93		0.75		ug/m3	2.76		TO 15 LL	Total/NA
Toluene	4.1		0.62		ug/m3	2.76		TO 15 LL	Total/NA
Trichloroethene	2.3		0.30		ug/m3	2.76		TO 15 LL	Total/NA
Trichlorofluoromethane	1.8		0.62		ug/m3	2.76		TO 15 LL	Total/NA

Client Sample ID: VP-2

Lab Sample ID: 140-429-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichlorotrifluoroethane	0.084		0.080		ppb v/v	1.73		TO 15 LL	Total/NA
Benzene	0.14		0.080		ppb v/v	1.73		TO 15 LL	Total/NA
Carbon tetrachloride	0.075		0.040		ppb v/v	1.73		TO 15 LL	Total/NA
Chloromethane	0.59		0.20		ppb v/v	1.73		TO 15 LL	Total/NA
Dichlorodifluoromethane	0.49		0.080		ppb v/v	1.73		TO 15 LL	Total/NA
Ethanol	1.6		0.80		ppb v/v	1.73		TO 15 LL	Total/NA
Methylene Chloride	0.33		0.20		ppb v/v	1.73		TO 15 LL	Total/NA
m-Xylene & p-Xylene	0.19		0.080		ppb v/v	1.73		TO 15 LL	Total/NA
Tetrachloroethene	0.15		0.080		ppb v/v	1.73		TO 15 LL	Total/NA
Toluene	0.32		0.12		ppb v/v	1.73		TO 15 LL	Total/NA
Trichlorofluoromethane	0.29	*	0.080		ppb v/v	1.73		TO 15 LL	Total/NA
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichlorotrifluoroethane	0.64		0.61		ug/m3	1.73		TO 15 LL	Total/NA
Benzene	0.45		0.26		ug/m3	1.73		TO 15 LL	Total/NA
Carbon tetrachloride	0.47		0.25		ug/m3	1.73		TO 15 LL	Total/NA
Chloromethane	1.2		0.41		ug/m3	1.73		TO 15 LL	Total/NA
Dichlorodifluoromethane	2.4		0.40		ug/m3	1.73		TO 15 LL	Total/NA
Ethanol	3.1		1.5		ug/m3	1.73		TO 15 LL	Total/NA
Methylene Chloride	1.1		0.69		ug/m3	1.73		TO 15 LL	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Knoxville

Detection Summary

Client: New York State D.E.C.
Project/Site: Sulzer Turbosystems #401038

TestAmerica Job ID: 140-429-1

Client Sample ID: VP-2 (Continued)

Lab Sample ID: 140-429-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
m-Xylene & p-Xylene	0.84		0.35		ug/m3	1.73		TO 15 LL	Total/NA
Tetrachloroethene	1.0		0.54		ug/m3	1.73		TO 15 LL	Total/NA
Toluene	1.2		0.45		ug/m3	1.73		TO 15 LL	Total/NA
Trichlorofluoromethane	1.6	*	0.45		ug/m3	1.73		TO 15 LL	Total/NA

Client Sample ID: AA-1

Lab Sample ID: 140-429-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichlorotrifluoroethane	0.084		0.080		ppb v/v	1		TO 15 LL	Total/NA
2-Butanone	0.59		0.32		ppb v/v	1		TO 15 LL	Total/NA
Benzene	0.10		0.080		ppb v/v	1		TO 15 LL	Total/NA
Carbon tetrachloride	0.089		0.040		ppb v/v	1		TO 15 LL	Total/NA
Chloromethane	0.56		0.20		ppb v/v	1		TO 15 LL	Total/NA
Dichlorodifluoromethane	0.61		0.080		ppb v/v	1		TO 15 LL	Total/NA
Ethanol	1.7		0.80		ppb v/v	1		TO 15 LL	Total/NA
Methylene Chloride	0.29		0.20		ppb v/v	1		TO 15 LL	Total/NA
Toluene	0.17		0.12		ppb v/v	1		TO 15 LL	Total/NA
Trichlorofluoromethane	0.31		0.080		ppb v/v	1		TO 15 LL	Total/NA
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichlorotrifluoroethane	0.65		0.61		ug/m3	1		TO 15 LL	Total/NA
2-Butanone	1.7		0.94		ug/m3	1		TO 15 LL	Total/NA
Benzene	0.33		0.26		ug/m3	1		TO 15 LL	Total/NA
Carbon tetrachloride	0.56		0.25		ug/m3	1		TO 15 LL	Total/NA
Chloromethane	1.2		0.41		ug/m3	1		TO 15 LL	Total/NA
Dichlorodifluoromethane	3.0		0.40		ug/m3	1		TO 15 LL	Total/NA
Ethanol	3.2		1.5		ug/m3	1		TO 15 LL	Total/NA
Methylene Chloride	1.0		0.69		ug/m3	1		TO 15 LL	Total/NA
Toluene	0.65		0.45		ug/m3	1		TO 15 LL	Total/NA
Trichlorofluoromethane	1.7		0.45		ug/m3	1		TO 15 LL	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Knoxville

Client Sample Results

Client: New York State D.E.C.
Project/Site: Sulzer Turbosystems #401038

TestAmerica Job ID: 140-429-1

Client Sample ID: VP-1

Lab Sample ID: 140-429-1

Date Collected: 11/09/13 11:58

Matrix: Air

Date Received: 11/12/13 10:20

Sample Container: Summa Canister 6L

Method: TO 15 LL - Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.14		0.11		ppb v/v			11/14/13 00:30	2.76
1,1,2,2-Tetrachloroethane	ND		0.11		ppb v/v			11/14/13 00:30	2.76
1,1,2-Trichloroethane	ND		0.11		ppb v/v			11/14/13 00:30	2.76
1,1,2-Trichlorotrifluoroethane	ND		0.11		ppb v/v			11/14/13 00:30	2.76
1,1-Dichloroethane	ND		0.11		ppb v/v			11/14/13 00:30	2.76
1,1-Dichloroethene	ND		0.11		ppb v/v			11/14/13 00:30	2.76
1,2,4-Trichlorobenzene	ND		0.11		ppb v/v			11/14/13 00:30	2.76
1,2,4-Trimethylbenzene	ND		0.11		ppb v/v			11/14/13 00:30	2.76
1,2-Dibromoethane	ND		0.11		ppb v/v			11/14/13 00:30	2.76
1,2-Dichlorobenzene	ND		0.11		ppb v/v			11/14/13 00:30	2.76
1,2-Dichloroethane	ND		0.11		ppb v/v			11/14/13 00:30	2.76
1,2-Dichloropropane	ND		0.11		ppb v/v			11/14/13 00:30	2.76
1,2-Dichlorotetrafluoroethane	ND		0.11		ppb v/v			11/14/13 00:30	2.76
1,3,5-Trimethylbenzene	ND		0.11		ppb v/v			11/14/13 00:30	2.76
1,3-Dichlorobenzene	ND		0.11		ppb v/v			11/14/13 00:30	2.76
1,4-Dichlorobenzene	ND		0.11		ppb v/v			11/14/13 00:30	2.76
1,4-Dioxane	ND		0.28		ppb v/v			11/14/13 00:30	2.76
2,2,4-Trimethylpentane	ND		0.28		ppb v/v			11/14/13 00:30	2.76
2-Butanone	0.95		0.44		ppb v/v			11/14/13 00:30	2.76
4-Methyl-2-pentanone (MIBK)	ND		0.28		ppb v/v			11/14/13 00:30	2.76
Benzene	0.25		0.11		ppb v/v			11/14/13 00:30	2.76
Benzyl chloride	ND		0.22		ppb v/v			11/14/13 00:30	2.76
Bromodichloromethane	ND		0.11		ppb v/v			11/14/13 00:30	2.76
Bromoform	ND		0.11		ppb v/v			11/14/13 00:30	2.76
Bromomethane	ND		0.11		ppb v/v			11/14/13 00:30	2.76
Carbon tetrachloride	0.069		0.055		ppb v/v			11/14/13 00:30	2.76
Chlorobenzene	ND		0.11		ppb v/v			11/14/13 00:30	2.76
Chloroethane	ND		0.11		ppb v/v			11/14/13 00:30	2.76
Chloroform	ND		0.11		ppb v/v			11/14/13 00:30	2.76
Chloromethane	0.62		0.28		ppb v/v			11/14/13 00:30	2.76
cis-1,2-Dichloroethene	ND		0.11		ppb v/v			11/14/13 00:30	2.76
cis-1,3-Dichloropropene	ND		0.11		ppb v/v			11/14/13 00:30	2.76
Cyclohexane	ND		0.28		ppb v/v			11/14/13 00:30	2.76
Dibromochloromethane	ND		0.11		ppb v/v			11/14/13 00:30	2.76
Dichlorodifluoromethane	0.59		0.11		ppb v/v			11/14/13 00:30	2.76
Ethanol	ND		1.1		ppb v/v			11/14/13 00:30	2.76
Ethylbenzene	ND		0.11		ppb v/v			11/14/13 00:30	2.76
Hexachlorobutadiene	ND		0.11		ppb v/v			11/14/13 00:30	2.76
Hexane	0.50		0.28		ppb v/v			11/14/13 00:30	2.76
Methyl tert-butyl ether	ND		0.22		ppb v/v			11/14/13 00:30	2.76
Methylene Chloride	0.78		0.28		ppb v/v			11/14/13 00:30	2.76
m-Xylene & p-Xylene	0.23		0.11		ppb v/v			11/14/13 00:30	2.76
o-Xylene	ND		0.11		ppb v/v			11/14/13 00:30	2.76
Styrene	ND		0.11		ppb v/v			11/14/13 00:30	2.76
t-Butyl alcohol	ND		0.44		ppb v/v			11/14/13 00:30	2.76
Tetrachloroethene	0.14		0.11		ppb v/v			11/14/13 00:30	2.76
Toluene	1.1		0.17		ppb v/v			11/14/13 00:30	2.76
trans-1,2-Dichloroethene	ND		0.11		ppb v/v			11/14/13 00:30	2.76

TestAmerica Knoxville

Client Sample Results

Client: New York State D.E.C.
Project/Site: Sulzer Turbosystems #401038

TestAmerica Job ID: 140-429-1

Client Sample ID: VP-1

Lab Sample ID: 140-429-1

Date Collected: 11/09/13 11:58

Matrix: Air

Date Received: 11/12/13 10:20

Sample Container: Summa Canister 6L

Method: TO 15 LL - Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	ND		0.11		ppb v/v			11/14/13 00:30	2.76
Trichloroethene	0.42		0.055		ppb v/v			11/14/13 00:30	2.76
Trichlorofluoromethane	0.33		0.11		ppb v/v			11/14/13 00:30	2.76
Vinyl chloride	ND		0.11		ppb v/v			11/14/13 00:30	2.76
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.77		0.60		ug/m3			11/14/13 00:30	2.76
1,1,2,2-Tetrachloroethane	ND		0.76		ug/m3			11/14/13 00:30	2.76
1,1,2-Trichloroethane	ND		0.60		ug/m3			11/14/13 00:30	2.76
1,1,2-Trichlorotrifluoroethane	ND		0.85		ug/m3			11/14/13 00:30	2.76
1,1-Dichloroethane	ND		0.45		ug/m3			11/14/13 00:30	2.76
1,1-Dichloroethene	ND		0.44		ug/m3			11/14/13 00:30	2.76
1,2,4-Trichlorobenzene	ND		0.82		ug/m3			11/14/13 00:30	2.76
1,2,4-Trimethylbenzene	ND		0.54		ug/m3			11/14/13 00:30	2.76
1,2-Dibromoethane	ND		0.85		ug/m3			11/14/13 00:30	2.76
1,2-Dichlorobenzene	ND		0.66		ug/m3			11/14/13 00:30	2.76
1,2-Dichloroethane	ND		0.45		ug/m3			11/14/13 00:30	2.76
1,2-Dichloropropane	ND		0.51		ug/m3			11/14/13 00:30	2.76
1,2-Dichlorotetrafluoroethane	ND		0.77		ug/m3			11/14/13 00:30	2.76
1,3,5-Trimethylbenzene	ND		0.54		ug/m3			11/14/13 00:30	2.76
1,3-Dichlorobenzene	ND		0.66		ug/m3			11/14/13 00:30	2.76
1,4-Dichlorobenzene	ND		0.66		ug/m3			11/14/13 00:30	2.76
1,4-Dioxane	ND		0.99		ug/m3			11/14/13 00:30	2.76
2,2,4-Trimethylpentane	ND		1.3		ug/m3			11/14/13 00:30	2.76
2-Butanone	2.8		1.3		ug/m3			11/14/13 00:30	2.76
4-Methyl-2-pentanone (MIBK)	ND		1.1		ug/m3			11/14/13 00:30	2.76
Benzene	0.79		0.35		ug/m3			11/14/13 00:30	2.76
Benzyl chloride	ND		1.1		ug/m3			11/14/13 00:30	2.76
Bromodichloromethane	ND		0.74		ug/m3			11/14/13 00:30	2.76
Bromoform	ND		1.1		ug/m3			11/14/13 00:30	2.76
Bromomethane	ND		0.43		ug/m3			11/14/13 00:30	2.76
Carbon tetrachloride	0.43		0.35		ug/m3			11/14/13 00:30	2.76
Chlorobenzene	ND		0.51		ug/m3			11/14/13 00:30	2.76
Chloroethane	ND		0.29		ug/m3			11/14/13 00:30	2.76
Chloroform	ND		0.54		ug/m3			11/14/13 00:30	2.76
Chloromethane	1.3		0.57		ug/m3			11/14/13 00:30	2.76
cis-1,2-Dichloroethene	ND		0.44		ug/m3			11/14/13 00:30	2.76
cis-1,3-Dichloropropene	ND		0.50		ug/m3			11/14/13 00:30	2.76
Cyclohexane	ND		0.95		ug/m3			11/14/13 00:30	2.76
Dibromochloromethane	ND		0.94		ug/m3			11/14/13 00:30	2.76
Dichlorodifluoromethane	2.9		0.55		ug/m3			11/14/13 00:30	2.76
Ethanol	ND		2.1		ug/m3			11/14/13 00:30	2.76
Ethylbenzene	ND		0.48		ug/m3			11/14/13 00:30	2.76
Hexachlorobutadiene	ND		1.2		ug/m3			11/14/13 00:30	2.76
Hexane	1.8		0.97		ug/m3			11/14/13 00:30	2.76
Methyl tert-butyl ether	ND		0.80		ug/m3			11/14/13 00:30	2.76
Methylene Chloride	2.7		0.96		ug/m3			11/14/13 00:30	2.76
m-Xylene & p-Xylene	1.0		0.48		ug/m3			11/14/13 00:30	2.76
o-Xylene	ND		0.48		ug/m3			11/14/13 00:30	2.76

TestAmerica Knoxville

Client Sample Results

Client: New York State D.E.C.
Project/Site: Sulzer Turbosystems #401038

TestAmerica Job ID: 140-429-1

Client Sample ID: VP-1

Lab Sample ID: 140-429-1

Date Collected: 11/09/13 11:58

Matrix: Air

Date Received: 11/12/13 10:20

Sample Container: Summa Canister 6L

Method: TO 15 LL - Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	ND		0.47		ug/m3			11/14/13 00:30	2.76
t-Butyl alcohol	ND		1.3		ug/m3			11/14/13 00:30	2.76
Tetrachloroethene	0.93		0.75		ug/m3			11/14/13 00:30	2.76
Toluene	4.1		0.62		ug/m3			11/14/13 00:30	2.76
trans-1,2-Dichloroethene	ND		0.44		ug/m3			11/14/13 00:30	2.76
trans-1,3-Dichloropropene	ND		0.50		ug/m3			11/14/13 00:30	2.76
Trichloroethene	2.3		0.30		ug/m3			11/14/13 00:30	2.76
Trichlorofluoromethane	1.8		0.62		ug/m3			11/14/13 00:30	2.76
Vinyl chloride	ND		0.28		ug/m3			11/14/13 00:30	2.76
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		60 - 140					11/14/13 00:30	2.76

Client Sample ID: VP-2

Lab Sample ID: 140-429-2

Date Collected: 11/09/13 11:54

Matrix: Air

Date Received: 11/12/13 10:20

Sample Container: Summa Canister 6L

Method: TO 15 LL - Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.080		ppb v/v			11/14/13 16:06	1.73
1,1,1,2-Tetrachloroethane	ND		0.080		ppb v/v			11/14/13 16:06	1.73
1,1,2-Trichloroethane	ND		0.080		ppb v/v			11/14/13 16:06	1.73
1,1,2-Trichlorotrifluoroethane	0.084		0.080		ppb v/v			11/14/13 16:06	1.73
1,1-Dichloroethane	ND		0.080		ppb v/v			11/14/13 16:06	1.73
1,1-Dichloroethene	ND		0.080		ppb v/v			11/14/13 16:06	1.73
1,2,4-Trichlorobenzene	ND		0.080		ppb v/v			11/14/13 16:06	1.73
1,2,4-Trimethylbenzene	ND		0.080		ppb v/v			11/14/13 16:06	1.73
1,2-Dibromoethane	ND		0.080		ppb v/v			11/14/13 16:06	1.73
1,2-Dichlorobenzene	ND		0.080		ppb v/v			11/14/13 16:06	1.73
1,2-Dichloroethane	ND		0.080		ppb v/v			11/14/13 16:06	1.73
1,2-Dichloropropane	ND		0.080		ppb v/v			11/14/13 16:06	1.73
1,2-Dichlorotetrafluoroethane	ND		0.080		ppb v/v			11/14/13 16:06	1.73
1,3,5-Trimethylbenzene	ND		0.080		ppb v/v			11/14/13 16:06	1.73
1,3-Dichlorobenzene	ND		0.080		ppb v/v			11/14/13 16:06	1.73
1,4-Dichlorobenzene	ND		0.080		ppb v/v			11/14/13 16:06	1.73
1,4-Dioxane	ND		0.20		ppb v/v			11/14/13 16:06	1.73
2,2,4-Trimethylpentane	ND		0.20		ppb v/v			11/14/13 16:06	1.73
2-Butanone	ND		0.32		ppb v/v			11/14/13 16:06	1.73
4-Methyl-2-pentanone (MIBK)	ND		0.20		ppb v/v			11/14/13 16:06	1.73
Benzene	0.14		0.080		ppb v/v			11/14/13 16:06	1.73
Benzyl chloride	ND		0.16		ppb v/v			11/14/13 16:06	1.73
Bromodichloromethane	ND		0.080		ppb v/v			11/14/13 16:06	1.73
Bromoform	ND		0.080		ppb v/v			11/14/13 16:06	1.73
Bromomethane	ND	*	0.080		ppb v/v			11/14/13 16:06	1.73
Carbon tetrachloride	0.075		0.040		ppb v/v			11/14/13 16:06	1.73
Chlorobenzene	ND		0.080		ppb v/v			11/14/13 16:06	1.73
Chloroethane	ND		0.080		ppb v/v			11/14/13 16:06	1.73
Chloroform	ND		0.080		ppb v/v			11/14/13 16:06	1.73

TestAmerica Knoxville

Client Sample Results

Client: New York State D.E.C.
Project/Site: Sulzer Turbosystems #401038

TestAmerica Job ID: 140-429-1

Client Sample ID: VP-2

Lab Sample ID: 140-429-2

Date Collected: 11/09/13 11:54

Matrix: Air

Date Received: 11/12/13 10:20

Sample Container: Summa Canister 6L

Method: TO 15 LL - Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	0.59		0.20		ppb v/v			11/14/13 16:06	1.73
cis-1,2-Dichloroethene	ND		0.080		ppb v/v			11/14/13 16:06	1.73
cis-1,3-Dichloropropene	ND		0.080		ppb v/v			11/14/13 16:06	1.73
Cyclohexane	ND		0.20		ppb v/v			11/14/13 16:06	1.73
Dibromochloromethane	ND		0.080		ppb v/v			11/14/13 16:06	1.73
Dichlorodifluoromethane	0.49		0.080		ppb v/v			11/14/13 16:06	1.73
Ethanol	1.6		0.80		ppb v/v			11/14/13 16:06	1.73
Ethylbenzene	ND		0.080		ppb v/v			11/14/13 16:06	1.73
Hexachlorobutadiene	ND		0.080		ppb v/v			11/14/13 16:06	1.73
Hexane	ND		0.20		ppb v/v			11/14/13 16:06	1.73
Methyl tert-butyl ether	ND		0.16		ppb v/v			11/14/13 16:06	1.73
Methylene Chloride	0.33		0.20		ppb v/v			11/14/13 16:06	1.73
m-Xylene & p-Xylene	0.19		0.080		ppb v/v			11/14/13 16:06	1.73
o-Xylene	ND		0.080		ppb v/v			11/14/13 16:06	1.73
Styrene	ND		0.080		ppb v/v			11/14/13 16:06	1.73
t-Butyl alcohol	ND		0.32		ppb v/v			11/14/13 16:06	1.73
Tetrachloroethene	0.15		0.080		ppb v/v			11/14/13 16:06	1.73
Toluene	0.32		0.12		ppb v/v			11/14/13 16:06	1.73
trans-1,2-Dichloroethene	ND		0.080		ppb v/v			11/14/13 16:06	1.73
trans-1,3-Dichloropropene	ND		0.080		ppb v/v			11/14/13 16:06	1.73
Trichloroethene	ND		0.040		ppb v/v			11/14/13 16:06	1.73
Trichlorofluoromethane	0.29 *		0.080		ppb v/v			11/14/13 16:06	1.73
Vinyl chloride	ND		0.080		ppb v/v			11/14/13 16:06	1.73
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.44		ug/m3			11/14/13 16:06	1.73
1,1,2,2-Tetrachloroethane	ND		0.55		ug/m3			11/14/13 16:06	1.73
1,1,2-Trichloroethane	ND		0.44		ug/m3			11/14/13 16:06	1.73
1,1,2-Trichlorotrifluoroethane	0.64		0.61		ug/m3			11/14/13 16:06	1.73
1,1-Dichloroethane	ND		0.32		ug/m3			11/14/13 16:06	1.73
1,1-Dichloroethene	ND		0.32		ug/m3			11/14/13 16:06	1.73
1,2,4-Trichlorobenzene	ND		0.59		ug/m3			11/14/13 16:06	1.73
1,2,4-Trimethylbenzene	ND		0.39		ug/m3			11/14/13 16:06	1.73
1,2-Dibromoethane	ND		0.61		ug/m3			11/14/13 16:06	1.73
1,2-Dichlorobenzene	ND		0.48		ug/m3			11/14/13 16:06	1.73
1,2-Dichloroethane	ND		0.32		ug/m3			11/14/13 16:06	1.73
1,2-Dichloropropane	ND		0.37		ug/m3			11/14/13 16:06	1.73
1,2-Dichlorotetrafluoroethane	ND		0.56		ug/m3			11/14/13 16:06	1.73
1,3,5-Trimethylbenzene	ND		0.39		ug/m3			11/14/13 16:06	1.73
1,3-Dichlorobenzene	ND		0.48		ug/m3			11/14/13 16:06	1.73
1,4-Dichlorobenzene	ND		0.48		ug/m3			11/14/13 16:06	1.73
1,4-Dioxane	ND		0.72		ug/m3			11/14/13 16:06	1.73
2,2,4-Trimethylpentane	ND		0.93		ug/m3			11/14/13 16:06	1.73
2-Butanone	ND		0.94		ug/m3			11/14/13 16:06	1.73
4-Methyl-2-pentanone (MIBK)	ND		0.82		ug/m3			11/14/13 16:06	1.73
Benzene	0.45		0.26		ug/m3			11/14/13 16:06	1.73
Benzyl chloride	ND		0.83		ug/m3			11/14/13 16:06	1.73
Bromodichloromethane	ND		0.54		ug/m3			11/14/13 16:06	1.73
Bromoform	ND		0.83		ug/m3			11/14/13 16:06	1.73

TestAmerica Knoxville

Client Sample Results

Client: New York State D.E.C.
Project/Site: Sulzer Turbosystems #401038

TestAmerica Job ID: 140-429-1

Client Sample ID: VP-2

Lab Sample ID: 140-429-2

Date Collected: 11/09/13 11:54

Matrix: Air

Date Received: 11/12/13 10:20

Sample Container: Summa Canister 6L

Method: TO 15 LL - Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromomethane	ND	*	0.31		ug/m3			11/14/13 16:06	1.73
Carbon tetrachloride	0.47		0.25		ug/m3			11/14/13 16:06	1.73
Chlorobenzene	ND		0.37		ug/m3			11/14/13 16:06	1.73
Chloroethane	ND		0.21		ug/m3			11/14/13 16:06	1.73
Chloroform	ND		0.39		ug/m3			11/14/13 16:06	1.73
Chloromethane	1.2		0.41		ug/m3			11/14/13 16:06	1.73
cis-1,2-Dichloroethene	ND		0.32		ug/m3			11/14/13 16:06	1.73
cis-1,3-Dichloropropene	ND		0.36		ug/m3			11/14/13 16:06	1.73
Cyclohexane	ND		0.69		ug/m3			11/14/13 16:06	1.73
Dibromochloromethane	ND		0.68		ug/m3			11/14/13 16:06	1.73
Dichlorodifluoromethane	2.4		0.40		ug/m3			11/14/13 16:06	1.73
Ethanol	3.1		1.5		ug/m3			11/14/13 16:06	1.73
Ethylbenzene	ND		0.35		ug/m3			11/14/13 16:06	1.73
Hexachlorobutadiene	ND		0.85		ug/m3			11/14/13 16:06	1.73
Hexane	ND		0.70		ug/m3			11/14/13 16:06	1.73
Methyl tert-butyl ether	ND		0.58		ug/m3			11/14/13 16:06	1.73
Methylene Chloride	1.1		0.69		ug/m3			11/14/13 16:06	1.73
m-Xylene & p-Xylene	0.84		0.35		ug/m3			11/14/13 16:06	1.73
o-Xylene	ND		0.35		ug/m3			11/14/13 16:06	1.73
Styrene	ND		0.34		ug/m3			11/14/13 16:06	1.73
t-Butyl alcohol	ND		0.97		ug/m3			11/14/13 16:06	1.73
Tetrachloroethene	1.0		0.54		ug/m3			11/14/13 16:06	1.73
Toluene	1.2		0.45		ug/m3			11/14/13 16:06	1.73
trans-1,2-Dichloroethene	ND		0.32		ug/m3			11/14/13 16:06	1.73
trans-1,3-Dichloropropene	ND		0.36		ug/m3			11/14/13 16:06	1.73
Trichloroethene	ND		0.21		ug/m3			11/14/13 16:06	1.73
Trichlorofluoromethane	1.6	*	0.45		ug/m3			11/14/13 16:06	1.73
Vinyl chloride	ND		0.20		ug/m3			11/14/13 16:06	1.73
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		60 - 140					11/14/13 16:06	1.73

Client Sample ID: AA-1

Lab Sample ID: 140-429-3

Date Collected: 11/09/13 11:56

Matrix: Air

Date Received: 11/12/13 10:20

Sample Container: Summa Canister 6L

Method: TO 15 LL - Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.080		ppb v/v			11/14/13 02:03	1
1,1,2,2-Tetrachloroethane	ND		0.080		ppb v/v			11/14/13 02:03	1
1,1,2-Trichloroethane	ND		0.080		ppb v/v			11/14/13 02:03	1
1,1,2-Trichlorotrifluoroethane	0.084		0.080		ppb v/v			11/14/13 02:03	1
1,1-Dichloroethane	ND		0.080		ppb v/v			11/14/13 02:03	1
1,1-Dichloroethene	ND		0.080		ppb v/v			11/14/13 02:03	1
1,2,4-Trichlorobenzene	ND		0.080		ppb v/v			11/14/13 02:03	1
1,2,4-Trimethylbenzene	ND		0.080		ppb v/v			11/14/13 02:03	1
1,2-Dibromoethane	ND		0.080		ppb v/v			11/14/13 02:03	1
1,2-Dichlorobenzene	ND		0.080		ppb v/v			11/14/13 02:03	1

TestAmerica Knoxville

Client Sample Results

Client: New York State D.E.C.
Project/Site: Sulzer Turbosystems #401038

TestAmerica Job ID: 140-429-1

Client Sample ID: AA-1

Lab Sample ID: 140-429-3

Date Collected: 11/09/13 11:56

Matrix: Air

Date Received: 11/12/13 10:20

Sample Container: Summa Canister 6L

Method: TO 15 LL - Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	ND		0.080		ppb v/v			11/14/13 02:03	1
1,2-Dichloropropane	ND		0.080		ppb v/v			11/14/13 02:03	1
1,2-Dichlorotetrafluoroethane	ND		0.080		ppb v/v			11/14/13 02:03	1
1,3,5-Trimethylbenzene	ND		0.080		ppb v/v			11/14/13 02:03	1
1,3-Dichlorobenzene	ND		0.080		ppb v/v			11/14/13 02:03	1
1,4-Dichlorobenzene	ND		0.080		ppb v/v			11/14/13 02:03	1
1,4-Dioxane	ND		0.20		ppb v/v			11/14/13 02:03	1
2,2,4-Trimethylpentane	ND		0.20		ppb v/v			11/14/13 02:03	1
2-Butanone	0.59		0.32		ppb v/v			11/14/13 02:03	1
4-Methyl-2-pentanone (MIBK)	ND		0.20		ppb v/v			11/14/13 02:03	1
Benzene	0.10		0.080		ppb v/v			11/14/13 02:03	1
Benzyl chloride	ND		0.16		ppb v/v			11/14/13 02:03	1
Bromodichloromethane	ND		0.080		ppb v/v			11/14/13 02:03	1
Bromoform	ND		0.080		ppb v/v			11/14/13 02:03	1
Bromomethane	ND		0.080		ppb v/v			11/14/13 02:03	1
Carbon tetrachloride	0.089		0.040		ppb v/v			11/14/13 02:03	1
Chlorobenzene	ND		0.080		ppb v/v			11/14/13 02:03	1
Chloroethane	ND		0.080		ppb v/v			11/14/13 02:03	1
Chloroform	ND		0.080		ppb v/v			11/14/13 02:03	1
Chloromethane	0.56		0.20		ppb v/v			11/14/13 02:03	1
cis-1,2-Dichloroethene	ND		0.080		ppb v/v			11/14/13 02:03	1
cis-1,3-Dichloropropene	ND		0.080		ppb v/v			11/14/13 02:03	1
Cyclohexane	ND		0.20		ppb v/v			11/14/13 02:03	1
Dibromochloromethane	ND		0.080		ppb v/v			11/14/13 02:03	1
Dichlorodifluoromethane	0.61		0.080		ppb v/v			11/14/13 02:03	1
Ethanol	1.7		0.80		ppb v/v			11/14/13 02:03	1
Ethylbenzene	ND		0.080		ppb v/v			11/14/13 02:03	1
Hexachlorobutadiene	ND		0.080		ppb v/v			11/14/13 02:03	1
Hexane	ND		0.20		ppb v/v			11/14/13 02:03	1
Methyl tert-butyl ether	ND		0.16		ppb v/v			11/14/13 02:03	1
Methylene Chloride	0.29		0.20		ppb v/v			11/14/13 02:03	1
m-Xylene & p-Xylene	ND		0.080		ppb v/v			11/14/13 02:03	1
o-Xylene	ND		0.080		ppb v/v			11/14/13 02:03	1
Styrene	ND		0.080		ppb v/v			11/14/13 02:03	1
t-Butyl alcohol	ND		0.32		ppb v/v			11/14/13 02:03	1
Tetrachloroethene	ND		0.080		ppb v/v			11/14/13 02:03	1
Toluene	0.17		0.12		ppb v/v			11/14/13 02:03	1
trans-1,2-Dichloroethene	ND		0.080		ppb v/v			11/14/13 02:03	1
trans-1,3-Dichloropropene	ND		0.080		ppb v/v			11/14/13 02:03	1
Trichloroethene	ND		0.040		ppb v/v			11/14/13 02:03	1
Trichlorofluoromethane	0.31		0.080		ppb v/v			11/14/13 02:03	1
Vinyl chloride	ND		0.080		ppb v/v			11/14/13 02:03	1
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.44		ug/m3			11/14/13 02:03	1
1,1,2,2-Tetrachloroethane	ND		0.55		ug/m3			11/14/13 02:03	1
1,1,2-Trichloroethane	ND		0.44		ug/m3			11/14/13 02:03	1
1,1,2-Trichlorotrifluoroethane	0.65		0.61		ug/m3			11/14/13 02:03	1
1,1-Dichloroethane	ND		0.32		ug/m3			11/14/13 02:03	1

TestAmerica Knoxville

Client Sample Results

Client: New York State D.E.C.
Project/Site: Sulzer Turbosystems #401038

TestAmerica Job ID: 140-429-1

Client Sample ID: AA-1

Lab Sample ID: 140-429-3

Date Collected: 11/09/13 11:56

Matrix: Air

Date Received: 11/12/13 10:20

Sample Container: Summa Canister 6L

Method: TO 15 LL - Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	ND		0.32		ug/m3			11/14/13 02:03	1
1,2,4-Trichlorobenzene	ND		0.59		ug/m3			11/14/13 02:03	1
1,2,4-Trimethylbenzene	ND		0.39		ug/m3			11/14/13 02:03	1
1,2-Dibromoethane	ND		0.61		ug/m3			11/14/13 02:03	1
1,2-Dichlorobenzene	ND		0.48		ug/m3			11/14/13 02:03	1
1,2-Dichloroethane	ND		0.32		ug/m3			11/14/13 02:03	1
1,2-Dichloropropane	ND		0.37		ug/m3			11/14/13 02:03	1
1,2-Dichlorotetrafluoroethane	ND		0.56		ug/m3			11/14/13 02:03	1
1,3,5-Trimethylbenzene	ND		0.39		ug/m3			11/14/13 02:03	1
1,3-Dichlorobenzene	ND		0.48		ug/m3			11/14/13 02:03	1
1,4-Dichlorobenzene	ND		0.48		ug/m3			11/14/13 02:03	1
1,4-Dioxane	ND		0.72		ug/m3			11/14/13 02:03	1
2,2,4-Trimethylpentane	ND		0.93		ug/m3			11/14/13 02:03	1
2-Butanone	1.7		0.94		ug/m3			11/14/13 02:03	1
4-Methyl-2-pentanone (MIBK)	ND		0.82		ug/m3			11/14/13 02:03	1
Benzene	0.33		0.26		ug/m3			11/14/13 02:03	1
Benzyl chloride	ND		0.83		ug/m3			11/14/13 02:03	1
Bromodichloromethane	ND		0.54		ug/m3			11/14/13 02:03	1
Bromoform	ND		0.83		ug/m3			11/14/13 02:03	1
Bromomethane	ND		0.31		ug/m3			11/14/13 02:03	1
Carbon tetrachloride	0.56		0.25		ug/m3			11/14/13 02:03	1
Chlorobenzene	ND		0.37		ug/m3			11/14/13 02:03	1
Chloroethane	ND		0.21		ug/m3			11/14/13 02:03	1
Chloroform	ND		0.39		ug/m3			11/14/13 02:03	1
Chloromethane	1.2		0.41		ug/m3			11/14/13 02:03	1
cis-1,2-Dichloroethene	ND		0.32		ug/m3			11/14/13 02:03	1
cis-1,3-Dichloropropene	ND		0.36		ug/m3			11/14/13 02:03	1
Cyclohexane	ND		0.69		ug/m3			11/14/13 02:03	1
Dibromochloromethane	ND		0.68		ug/m3			11/14/13 02:03	1
Dichlorodifluoromethane	3.0		0.40		ug/m3			11/14/13 02:03	1
Ethanol	3.2		1.5		ug/m3			11/14/13 02:03	1
Ethylbenzene	ND		0.35		ug/m3			11/14/13 02:03	1
Hexachlorobutadiene	ND		0.85		ug/m3			11/14/13 02:03	1
Hexane	ND		0.70		ug/m3			11/14/13 02:03	1
Methyl tert-butyl ether	ND		0.58		ug/m3			11/14/13 02:03	1
Methylene Chloride	1.0		0.69		ug/m3			11/14/13 02:03	1
m-Xylene & p-Xylene	ND		0.35		ug/m3			11/14/13 02:03	1
o-Xylene	ND		0.35		ug/m3			11/14/13 02:03	1
Styrene	ND		0.34		ug/m3			11/14/13 02:03	1
t-Butyl alcohol	ND		0.97		ug/m3			11/14/13 02:03	1
Tetrachloroethene	ND		0.54		ug/m3			11/14/13 02:03	1
Toluene	0.65		0.45		ug/m3			11/14/13 02:03	1
trans-1,2-Dichloroethene	ND		0.32		ug/m3			11/14/13 02:03	1
trans-1,3-Dichloropropene	ND		0.36		ug/m3			11/14/13 02:03	1
Trichloroethene	ND		0.21		ug/m3			11/14/13 02:03	1
Trichlorofluoromethane	1.7		0.45		ug/m3			11/14/13 02:03	1
Vinyl chloride	ND		0.20		ug/m3			11/14/13 02:03	1

TestAmerica Knoxville

Client Sample Results

Client: New York State D.E.C.
Project/Site: Sulzer Turbosystems #401038

TestAmerica Job ID: 140-429-1

Client Sample ID: AA-1

Lab Sample ID: 140-429-3

Date Collected: 11/09/13 11:56

Matrix: Air

Date Received: 11/12/13 10:20

Sample Container: Summa Canister 6L

<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
4-Bromofluorobenzene (Surr)	108		60 - 140		11/14/13 02:03	1

Surrogate Summary

Client: New York State D.E.C.
Project/Site: Sulzer Turbosystems #401038

TestAmerica Job ID: 140-429-1

Method: TO 15 LL - Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS)

Matrix: Air

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	BFB (60-140)
140-429-1	VP-1	109
140-429-2	VP-2	107
140-429-3	AA-1	108
LCS 140-417/1002	Lab Control Sample	118
LCS 140-418/1002	Lab Control Sample	121
MB 140-417/1004	Method Blank	106
MB 140-418/1003	Method Blank	108

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

QC Sample Results

Client: New York State D.E.C.
Project/Site: Sulzer Turbosystems #401038

TestAmerica Job ID: 140-429-1

Method: TO 15 LL - Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS)

Lab Sample ID: MB 140-417/1004

Matrix: Air

Analysis Batch: 417

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.080		ppb v/v			11/13/13 13:20	1
1,1,2,2-Tetrachloroethane	ND		0.080		ppb v/v			11/13/13 13:20	1
1,1,2-Trichloroethane	ND		0.080		ppb v/v			11/13/13 13:20	1
1,1,2-Trichlorotrifluoroethane	ND		0.080		ppb v/v			11/13/13 13:20	1
1,1-Dichloroethane	ND		0.080		ppb v/v			11/13/13 13:20	1
1,1-Dichloroethene	ND		0.080		ppb v/v			11/13/13 13:20	1
1,2,4-Trichlorobenzene	ND		0.080		ppb v/v			11/13/13 13:20	1
1,2,4-Trimethylbenzene	ND		0.080		ppb v/v			11/13/13 13:20	1
1,2-Dibromoethane	ND		0.080		ppb v/v			11/13/13 13:20	1
1,2-Dichlorobenzene	ND		0.080		ppb v/v			11/13/13 13:20	1
1,2-Dichloroethane	ND		0.080		ppb v/v			11/13/13 13:20	1
1,2-Dichloropropane	ND		0.080		ppb v/v			11/13/13 13:20	1
1,2-Dichlorotetrafluoroethane	ND		0.080		ppb v/v			11/13/13 13:20	1
1,3,5-Trimethylbenzene	ND		0.080		ppb v/v			11/13/13 13:20	1
1,3-Dichlorobenzene	ND		0.080		ppb v/v			11/13/13 13:20	1
1,4-Dichlorobenzene	ND		0.080		ppb v/v			11/13/13 13:20	1
1,4-Dioxane	ND		0.20		ppb v/v			11/13/13 13:20	1
2,2,4-Trimethylpentane	ND		0.20		ppb v/v			11/13/13 13:20	1
2-Butanone	ND		0.32		ppb v/v			11/13/13 13:20	1
4-Methyl-2-pentanone (MIBK)	ND		0.20		ppb v/v			11/13/13 13:20	1
Benzene	ND		0.080		ppb v/v			11/13/13 13:20	1
Benzyl chloride	ND		0.16		ppb v/v			11/13/13 13:20	1
Bromodichloromethane	ND		0.080		ppb v/v			11/13/13 13:20	1
Bromoform	ND		0.080		ppb v/v			11/13/13 13:20	1
Bromomethane	ND		0.080		ppb v/v			11/13/13 13:20	1
Carbon tetrachloride	ND		0.040		ppb v/v			11/13/13 13:20	1
Chlorobenzene	ND		0.080		ppb v/v			11/13/13 13:20	1
Chloroethane	ND		0.080		ppb v/v			11/13/13 13:20	1
Chloroform	ND		0.080		ppb v/v			11/13/13 13:20	1
Chloromethane	ND		0.20		ppb v/v			11/13/13 13:20	1
cis-1,2-Dichloroethene	ND		0.080		ppb v/v			11/13/13 13:20	1
cis-1,3-Dichloropropene	ND		0.080		ppb v/v			11/13/13 13:20	1
Cyclohexane	ND		0.20		ppb v/v			11/13/13 13:20	1
Dibromochloromethane	ND		0.080		ppb v/v			11/13/13 13:20	1
Dichlorodifluoromethane	ND		0.080		ppb v/v			11/13/13 13:20	1
Ethanol	ND		0.80		ppb v/v			11/13/13 13:20	1
Ethylbenzene	ND		0.080		ppb v/v			11/13/13 13:20	1
Hexachlorobutadiene	ND		0.080		ppb v/v			11/13/13 13:20	1
Hexane	ND		0.20		ppb v/v			11/13/13 13:20	1
Methyl tert-butyl ether	ND		0.16		ppb v/v			11/13/13 13:20	1
Methylene Chloride	ND		0.20		ppb v/v			11/13/13 13:20	1
m-Xylene & p-Xylene	ND		0.080		ppb v/v			11/13/13 13:20	1
o-Xylene	ND		0.080		ppb v/v			11/13/13 13:20	1
Styrene	ND		0.080		ppb v/v			11/13/13 13:20	1
t-Butyl alcohol	ND		0.32		ppb v/v			11/13/13 13:20	1
Tetrachloroethene	ND		0.080		ppb v/v			11/13/13 13:20	1
Toluene	ND		0.12		ppb v/v			11/13/13 13:20	1
trans-1,2-Dichloroethene	ND		0.080		ppb v/v			11/13/13 13:20	1

TestAmerica Knoxville

QC Sample Results

Client: New York State D.E.C.
Project/Site: Sulzer Turbosystems #401038

TestAmerica Job ID: 140-429-1

Method: TO 15 LL - Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS) (Continued)

Lab Sample ID: MB 140-417/1004

Matrix: Air

Analysis Batch: 417

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	ND		0.080		ppb v/v			11/13/13 13:20	1
Trichloroethene	ND		0.040		ppb v/v			11/13/13 13:20	1
Trichlorofluoromethane	ND		0.080		ppb v/v			11/13/13 13:20	1
Vinyl chloride	ND		0.080		ppb v/v			11/13/13 13:20	1
Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.44		ug/m3			11/13/13 13:20	1
1,1,2,2-Tetrachloroethane	ND		0.55		ug/m3			11/13/13 13:20	1
1,1,2-Trichloroethane	ND		0.44		ug/m3			11/13/13 13:20	1
1,1,2-Trichlorotrifluoroethane	ND		0.61		ug/m3			11/13/13 13:20	1
1,1-Dichloroethane	ND		0.32		ug/m3			11/13/13 13:20	1
1,1-Dichloroethene	ND		0.32		ug/m3			11/13/13 13:20	1
1,2,4-Trichlorobenzene	ND		0.59		ug/m3			11/13/13 13:20	1
1,2,4-Trimethylbenzene	ND		0.39		ug/m3			11/13/13 13:20	1
1,2-Dibromoethane	ND		0.61		ug/m3			11/13/13 13:20	1
1,2-Dichlorobenzene	ND		0.48		ug/m3			11/13/13 13:20	1
1,2-Dichloroethane	ND		0.32		ug/m3			11/13/13 13:20	1
1,2-Dichloropropane	ND		0.37		ug/m3			11/13/13 13:20	1
1,2-Dichlorotetrafluoroethane	ND		0.56		ug/m3			11/13/13 13:20	1
1,3,5-Trimethylbenzene	ND		0.39		ug/m3			11/13/13 13:20	1
1,3-Dichlorobenzene	ND		0.48		ug/m3			11/13/13 13:20	1
1,4-Dichlorobenzene	ND		0.48		ug/m3			11/13/13 13:20	1
1,4-Dioxane	ND		0.72		ug/m3			11/13/13 13:20	1
2,2,4-Trimethylpentane	ND		0.93		ug/m3			11/13/13 13:20	1
2-Butanone	ND		0.94		ug/m3			11/13/13 13:20	1
4-Methyl-2-pentanone (MIBK)	ND		0.82		ug/m3			11/13/13 13:20	1
Benzene	ND		0.26		ug/m3			11/13/13 13:20	1
Benzyl chloride	ND		0.83		ug/m3			11/13/13 13:20	1
Bromodichloromethane	ND		0.54		ug/m3			11/13/13 13:20	1
Bromoform	ND		0.83		ug/m3			11/13/13 13:20	1
Bromomethane	ND		0.31		ug/m3			11/13/13 13:20	1
Carbon tetrachloride	ND		0.25		ug/m3			11/13/13 13:20	1
Chlorobenzene	ND		0.37		ug/m3			11/13/13 13:20	1
Chloroethane	ND		0.21		ug/m3			11/13/13 13:20	1
Chloroform	ND		0.39		ug/m3			11/13/13 13:20	1
Chloromethane	ND		0.41		ug/m3			11/13/13 13:20	1
cis-1,2-Dichloroethene	ND		0.32		ug/m3			11/13/13 13:20	1
cis-1,3-Dichloropropene	ND		0.36		ug/m3			11/13/13 13:20	1
Cyclohexane	ND		0.69		ug/m3			11/13/13 13:20	1
Dibromochloromethane	ND		0.68		ug/m3			11/13/13 13:20	1
Dichlorodifluoromethane	ND		0.40		ug/m3			11/13/13 13:20	1
Ethanol	ND		1.5		ug/m3			11/13/13 13:20	1
Ethylbenzene	ND		0.35		ug/m3			11/13/13 13:20	1
Hexachlorobutadiene	ND		0.85		ug/m3			11/13/13 13:20	1
Hexane	ND		0.70		ug/m3			11/13/13 13:20	1
Methyl tert-butyl ether	ND		0.58		ug/m3			11/13/13 13:20	1
Methylene Chloride	ND		0.69		ug/m3			11/13/13 13:20	1

TestAmerica Knoxville

QC Sample Results

Client: New York State D.E.C.
Project/Site: Sulzer Turbosystems #401038

TestAmerica Job ID: 140-429-1

Method: TO 15 LL - Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS)

(Continued)

Lab Sample ID: MB 140-417/1004

Matrix: Air

Analysis Batch: 417

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	ND		0.35		ug/m3			11/13/13 13:20	1
o-Xylene	ND		0.35		ug/m3			11/13/13 13:20	1
Styrene	ND		0.34		ug/m3			11/13/13 13:20	1
t-Butyl alcohol	ND		0.97		ug/m3			11/13/13 13:20	1
Tetrachloroethene	ND		0.54		ug/m3			11/13/13 13:20	1
Toluene	ND		0.45		ug/m3			11/13/13 13:20	1
trans-1,2-Dichloroethene	ND		0.32		ug/m3			11/13/13 13:20	1
trans-1,3-Dichloropropene	ND		0.36		ug/m3			11/13/13 13:20	1
Trichloroethene	ND		0.21		ug/m3			11/13/13 13:20	1
Trichlorofluoromethane	ND		0.45		ug/m3			11/13/13 13:20	1
Vinyl chloride	ND		0.20		ug/m3			11/13/13 13:20	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		60 - 140		11/13/13 13:20	1

Lab Sample ID: LCS 140-417/1002

Matrix: Air

Analysis Batch: 417

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	2.00	2.27		ppb v/v		113	70 - 130
1,1,2,2-Tetrachloroethane	2.00	2.07		ppb v/v		103	70 - 130
1,1,2-Trichloroethane	2.00	2.07		ppb v/v		103	70 - 130
1,1,2-Trichlorotrifluoroethane	2.00	2.61		ppb v/v		130	70 - 130
1,1-Dichloroethane	2.00	2.02		ppb v/v		101	70 - 130
1,1-Dichloroethene	2.00	2.41		ppb v/v		121	70 - 130
1,2,4-Trichlorobenzene	2.00	2.23		ppb v/v		111	60 - 140
1,2,4-Trimethylbenzene	2.00	2.22		ppb v/v		111	70 - 130
1,2-Dibromoethane	2.00	1.94		ppb v/v		97	70 - 130
1,2-Dichlorobenzene	2.00	2.17		ppb v/v		109	70 - 130
1,2-Dichloroethane	2.00	2.12		ppb v/v		106	70 - 130
1,2-Dichloropropane	2.00	1.93		ppb v/v		96	70 - 130
1,2-Dichlorotetrafluoroethane	2.00	2.63		ppb v/v		131	60 - 140
1,3,5-Trimethylbenzene	2.00	2.21		ppb v/v		110	70 - 130
1,3-Dichlorobenzene	2.00	2.16		ppb v/v		108	70 - 130
1,4-Dichlorobenzene	2.00	2.13		ppb v/v		107	70 - 130
1,4-Dioxane	2.00	1.73		ppb v/v		87	60 - 140
2,2,4-Trimethylpentane	2.00	1.56		ppb v/v		78	70 - 130
2-Butanone	2.00	1.72		ppb v/v		86	60 - 140
4-Methyl-2-pentanone (MIBK)	2.00	1.40		ppb v/v		70	60 - 140
Benzene	2.00	1.96		ppb v/v		98	70 - 130
Benzyl chloride	2.00	2.23		ppb v/v		111	70 - 130
Bromodichloromethane	2.00	2.12		ppb v/v		106	70 - 130
Bromoform	2.00	1.77		ppb v/v		89	60 - 140
Bromomethane	2.00	2.40		ppb v/v		120	70 - 130
Carbon tetrachloride	2.00	2.47		ppb v/v		124	70 - 130
Chlorobenzene	2.00	2.03		ppb v/v		102	70 - 130

TestAmerica Knoxville

QC Sample Results

Client: New York State D.E.C.
Project/Site: Sulzer Turbosystems #401038

TestAmerica Job ID: 140-429-1

Method: TO 15 LL - Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS)

(Continued)

Lab Sample ID: LCS 140-417/1002

Matrix: Air

Analysis Batch: 417

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloroethane	2.00	2.35		ppb v/v		118	70 - 130
Chloroform	2.00	2.25		ppb v/v		113	70 - 130
Chloromethane	2.00	2.20		ppb v/v		110	60 - 140
cis-1,2-Dichloroethene	2.00	2.03		ppb v/v		101	70 - 130
cis-1,3-Dichloropropene	2.00	1.92		ppb v/v		96	70 - 130
Cyclohexane	2.00	1.98		ppb v/v		99	70 - 130
Dibromochloromethane	2.00	2.00		ppb v/v		100	70 - 130
Dichlorodifluoromethane	2.00	2.42		ppb v/v		121	60 - 140
Ethanol	10.0	7.37		ppb v/v		74	20 - 180
Ethylbenzene	2.00	1.94		ppb v/v		97	70 - 130
Hexachlorobutadiene	2.00	2.33		ppb v/v		116	60 - 140
Hexane	2.00	1.71		ppb v/v		85	70 - 130
Methyl tert-butyl ether	2.00	1.85		ppb v/v		92	60 - 140
Methylene Chloride	2.00	2.18		ppb v/v		109	70 - 130
m-Xylene & p-Xylene	4.00	4.28		ppb v/v		107	70 - 130
o-Xylene	2.00	2.09		ppb v/v		105	70 - 130
Styrene	2.00	2.04		ppb v/v		102	70 - 130
t-Butyl alcohol	2.00	1.54		ppb v/v		77	60 - 140
Tetrachloroethene	2.00	2.11		ppb v/v		105	70 - 130
Toluene	2.00	1.69		ppb v/v		84	70 - 130
trans-1,2-Dichloroethene	2.00	2.03		ppb v/v		101	70 - 130
trans-1,3-Dichloropropene	2.00	1.71		ppb v/v		86	70 - 130
Trichloroethene	2.00	2.05		ppb v/v		102	70 - 130
Trichlorofluoromethane	2.00	2.58		ppb v/v		129	60 - 140
Vinyl chloride	2.00	2.13		ppb v/v		107	70 - 130
Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	11	12.4		ug/m3		113	70 - 130
1,1,2,2-Tetrachloroethane	14	14.2		ug/m3		103	70 - 130
1,1,2-Trichloroethane	11	11.3		ug/m3		103	70 - 130
1,1,2-Trichlorotrifluoroethane	15	20.0		ug/m3		130	70 - 130
1,1-Dichloroethane	8.1	8.16		ug/m3		101	70 - 130
1,1-Dichloroethene	7.9	9.57		ug/m3		121	70 - 130
1,2,4-Trichlorobenzene	15	16.5		ug/m3		111	60 - 140
1,2,4-Trimethylbenzene	9.8	10.9		ug/m3		111	70 - 130
1,2-Dibromoethane	15	14.9		ug/m3		97	70 - 130
1,2-Dichlorobenzene	12	13.1		ug/m3		109	70 - 130
1,2-Dichloroethane	8.1	8.57		ug/m3		106	70 - 130
1,2-Dichloropropane	9.2	8.90		ug/m3		96	70 - 130
1,2-Dichlorotetrafluoroethane	14	18.4		ug/m3		131	60 - 140
1,3,5-Trimethylbenzene	9.8	10.9		ug/m3		110	70 - 130
1,3-Dichlorobenzene	12	13.0		ug/m3		108	70 - 130
1,4-Dichlorobenzene	12	12.8		ug/m3		107	70 - 130
1,4-Dioxane	7.2	6.24		ug/m3		87	60 - 140
2,2,4-Trimethylpentane	9.3	7.29		ug/m3		78	70 - 130
2-Butanone	5.9	5.06		ug/m3		86	60 - 140
4-Methyl-2-pentanone (MIBK)	8.2	5.74		ug/m3		70	60 - 140

TestAmerica Knoxville

QC Sample Results

Client: New York State D.E.C.
Project/Site: Sulzer Turbosystems #401038

TestAmerica Job ID: 140-429-1

Method: TO 15 LL - Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS)

(Continued)

Lab Sample ID: LCS 140-417/1002

Matrix: Air

Analysis Batch: 417

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	6.4	6.27		ug/m3		98	70 - 130
Benzyl chloride	10	11.5		ug/m3		111	70 - 130
Bromodichloromethane	13	14.2		ug/m3		106	70 - 130
Bromoform	21	18.3		ug/m3		89	60 - 140
Bromomethane	7.8	9.31		ug/m3		120	70 - 130
Carbon tetrachloride	13	15.6		ug/m3		124	70 - 130
Chlorobenzene	9.2	9.36		ug/m3		102	70 - 130
Chloroethane	5.3	6.21		ug/m3		118	70 - 130
Chloroform	9.8	11.0		ug/m3		113	70 - 130
Chloromethane	4.1	4.54		ug/m3		110	60 - 140
cis-1,2-Dichloroethene	7.9	8.04		ug/m3		101	70 - 130
cis-1,3-Dichloropropene	9.1	8.69		ug/m3		96	70 - 130
Cyclohexane	6.9	6.83		ug/m3		99	70 - 130
Dibromochloromethane	17	17.0		ug/m3		100	70 - 130
Dichlorodifluoromethane	9.9	12.0		ug/m3		121	60 - 140
Ethanol	19	13.9		ug/m3		74	20 - 180
Ethylbenzene	8.7	8.43		ug/m3		97	70 - 130
Hexachlorobutadiene	21	24.8		ug/m3		116	60 - 140
Hexane	7.0	6.02		ug/m3		85	70 - 130
Methyl tert-butyl ether	7.2	6.65		ug/m3		92	60 - 140
Methylene Chloride	6.9	7.56		ug/m3		109	70 - 130
m-Xylene & p-Xylene	17	18.6		ug/m3		107	70 - 130
o-Xylene	8.7	9.08		ug/m3		105	70 - 130
Styrene	8.5	8.71		ug/m3		102	70 - 130
t-Butyl alcohol	6.1	4.66		ug/m3		77	60 - 140
Tetrachloroethene	14	14.3		ug/m3		105	70 - 130
Toluene	7.5	6.36		ug/m3		84	70 - 130
trans-1,2-Dichloroethene	7.9	8.03		ug/m3		101	70 - 130
trans-1,3-Dichloropropene	9.1	7.76		ug/m3		86	70 - 130
Trichloroethene	11	11.0		ug/m3		102	70 - 130
Trichlorofluoromethane	11	14.5		ug/m3		129	60 - 140
Vinyl chloride	5.1	5.46		ug/m3		107	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	118		60 - 140

Lab Sample ID: MB 140-418/1003

Matrix: Air

Analysis Batch: 418

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.080		ppb v/v			11/14/13 14:32	1
1,1,2,2-Tetrachloroethane	ND		0.080		ppb v/v			11/14/13 14:32	1
1,1,2-Trichloroethane	ND		0.080		ppb v/v			11/14/13 14:32	1
1,1,2-Trichlorotrifluoroethane	ND		0.080		ppb v/v			11/14/13 14:32	1
1,1-Dichloroethane	ND		0.080		ppb v/v			11/14/13 14:32	1
1,1-Dichloroethene	ND		0.080		ppb v/v			11/14/13 14:32	1

TestAmerica Knoxville

QC Sample Results

Client: New York State D.E.C.
Project/Site: Sulzer Turbosystems #401038

TestAmerica Job ID: 140-429-1

Method: TO 15 LL - Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS)

(Continued)

Lab Sample ID: MB 140-418/1003

Matrix: Air

Analysis Batch: 418

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		0.080		ppb v/v			11/14/13 14:32	1
1,2,4-Trimethylbenzene	ND		0.080		ppb v/v			11/14/13 14:32	1
1,2-Dibromoethane	ND		0.080		ppb v/v			11/14/13 14:32	1
1,2-Dichlorobenzene	ND		0.080		ppb v/v			11/14/13 14:32	1
1,2-Dichloroethane	ND		0.080		ppb v/v			11/14/13 14:32	1
1,2-Dichloropropane	ND		0.080		ppb v/v			11/14/13 14:32	1
1,2-Dichlorotetrafluoroethane	ND		0.080		ppb v/v			11/14/13 14:32	1
1,3,5-Trimethylbenzene	ND		0.080		ppb v/v			11/14/13 14:32	1
1,3-Dichlorobenzene	ND		0.080		ppb v/v			11/14/13 14:32	1
1,4-Dichlorobenzene	ND		0.080		ppb v/v			11/14/13 14:32	1
1,4-Dioxane	ND		0.20		ppb v/v			11/14/13 14:32	1
2,2,4-Trimethylpentane	ND		0.20		ppb v/v			11/14/13 14:32	1
2-Butanone	ND		0.32		ppb v/v			11/14/13 14:32	1
4-Methyl-2-pentanone (MIBK)	ND		0.20		ppb v/v			11/14/13 14:32	1
Benzene	ND		0.080		ppb v/v			11/14/13 14:32	1
Benzyl chloride	ND		0.16		ppb v/v			11/14/13 14:32	1
Bromodichloromethane	ND		0.080		ppb v/v			11/14/13 14:32	1
Bromoform	ND		0.080		ppb v/v			11/14/13 14:32	1
Bromomethane	ND		0.080		ppb v/v			11/14/13 14:32	1
Carbon tetrachloride	ND		0.040		ppb v/v			11/14/13 14:32	1
Chlorobenzene	ND		0.080		ppb v/v			11/14/13 14:32	1
Chloroethane	ND		0.080		ppb v/v			11/14/13 14:32	1
Chloroform	ND		0.080		ppb v/v			11/14/13 14:32	1
Chloromethane	ND		0.20		ppb v/v			11/14/13 14:32	1
cis-1,2-Dichloroethene	ND		0.080		ppb v/v			11/14/13 14:32	1
cis-1,3-Dichloropropene	ND		0.080		ppb v/v			11/14/13 14:32	1
Cyclohexane	ND		0.20		ppb v/v			11/14/13 14:32	1
Dibromochloromethane	ND		0.080		ppb v/v			11/14/13 14:32	1
Dichlorodifluoromethane	ND		0.080		ppb v/v			11/14/13 14:32	1
Ethanol	ND		0.80		ppb v/v			11/14/13 14:32	1
Ethylbenzene	ND		0.080		ppb v/v			11/14/13 14:32	1
Hexachlorobutadiene	ND		0.080		ppb v/v			11/14/13 14:32	1
Hexane	ND		0.20		ppb v/v			11/14/13 14:32	1
Methyl tert-butyl ether	ND		0.16		ppb v/v			11/14/13 14:32	1
Methylene Chloride	ND		0.20		ppb v/v			11/14/13 14:32	1
m-Xylene & p-Xylene	ND		0.080		ppb v/v			11/14/13 14:32	1
o-Xylene	ND		0.080		ppb v/v			11/14/13 14:32	1
Styrene	ND		0.080		ppb v/v			11/14/13 14:32	1
t-Butyl alcohol	ND		0.32		ppb v/v			11/14/13 14:32	1
Tetrachloroethene	ND		0.080		ppb v/v			11/14/13 14:32	1
Toluene	ND		0.12		ppb v/v			11/14/13 14:32	1
trans-1,2-Dichloroethene	ND		0.080		ppb v/v			11/14/13 14:32	1
trans-1,3-Dichloropropene	ND		0.080		ppb v/v			11/14/13 14:32	1
Trichloroethene	ND		0.040		ppb v/v			11/14/13 14:32	1
Trichlorofluoromethane	ND		0.080		ppb v/v			11/14/13 14:32	1
Vinyl chloride	ND		0.080		ppb v/v			11/14/13 14:32	1

TestAmerica Knoxville

QC Sample Results

Client: New York State D.E.C.
Project/Site: Sulzer Turbosystems #401038

TestAmerica Job ID: 140-429-1

Method: TO 15 LL - Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS) (Continued)

Lab Sample ID: MB 140-418/1003

Matrix: Air

Analysis Batch: 418

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.44		ug/m3			11/14/13 14:32	1
1,1,2,2-Tetrachloroethane	ND		0.55		ug/m3			11/14/13 14:32	1
1,1,2-Trichloroethane	ND		0.44		ug/m3			11/14/13 14:32	1
1,1,2-Trichlorotrifluoroethane	ND		0.61		ug/m3			11/14/13 14:32	1
1,1-Dichloroethane	ND		0.32		ug/m3			11/14/13 14:32	1
1,1-Dichloroethene	ND		0.32		ug/m3			11/14/13 14:32	1
1,2,4-Trichlorobenzene	ND		0.59		ug/m3			11/14/13 14:32	1
1,2,4-Trimethylbenzene	ND		0.39		ug/m3			11/14/13 14:32	1
1,2-Dibromoethane	ND		0.61		ug/m3			11/14/13 14:32	1
1,2-Dichlorobenzene	ND		0.48		ug/m3			11/14/13 14:32	1
1,2-Dichloroethane	ND		0.32		ug/m3			11/14/13 14:32	1
1,2-Dichloropropane	ND		0.37		ug/m3			11/14/13 14:32	1
1,2-Dichlorotetrafluoroethane	ND		0.56		ug/m3			11/14/13 14:32	1
1,3,5-Trimethylbenzene	ND		0.39		ug/m3			11/14/13 14:32	1
1,3-Dichlorobenzene	ND		0.48		ug/m3			11/14/13 14:32	1
1,4-Dichlorobenzene	ND		0.48		ug/m3			11/14/13 14:32	1
1,4-Dioxane	ND		0.72		ug/m3			11/14/13 14:32	1
2,2,4-Trimethylpentane	ND		0.93		ug/m3			11/14/13 14:32	1
2-Butanone	ND		0.94		ug/m3			11/14/13 14:32	1
4-Methyl-2-pentanone (MIBK)	ND		0.82		ug/m3			11/14/13 14:32	1
Benzene	ND		0.26		ug/m3			11/14/13 14:32	1
Benzyl chloride	ND		0.83		ug/m3			11/14/13 14:32	1
Bromodichloromethane	ND		0.54		ug/m3			11/14/13 14:32	1
Bromoform	ND		0.83		ug/m3			11/14/13 14:32	1
Bromomethane	ND		0.31		ug/m3			11/14/13 14:32	1
Carbon tetrachloride	ND		0.25		ug/m3			11/14/13 14:32	1
Chlorobenzene	ND		0.37		ug/m3			11/14/13 14:32	1
Chloroethane	ND		0.21		ug/m3			11/14/13 14:32	1
Chloroform	ND		0.39		ug/m3			11/14/13 14:32	1
Chloromethane	ND		0.41		ug/m3			11/14/13 14:32	1
cis-1,2-Dichloroethene	ND		0.32		ug/m3			11/14/13 14:32	1
cis-1,3-Dichloropropene	ND		0.36		ug/m3			11/14/13 14:32	1
Cyclohexane	ND		0.69		ug/m3			11/14/13 14:32	1
Dibromochloromethane	ND		0.68		ug/m3			11/14/13 14:32	1
Dichlorodifluoromethane	ND		0.40		ug/m3			11/14/13 14:32	1
Ethanol	ND		1.5		ug/m3			11/14/13 14:32	1
Ethylbenzene	ND		0.35		ug/m3			11/14/13 14:32	1
Hexachlorobutadiene	ND		0.85		ug/m3			11/14/13 14:32	1
Hexane	ND		0.70		ug/m3			11/14/13 14:32	1
Methyl tert-butyl ether	ND		0.58		ug/m3			11/14/13 14:32	1
Methylene Chloride	ND		0.69		ug/m3			11/14/13 14:32	1
m-Xylene & p-Xylene	ND		0.35		ug/m3			11/14/13 14:32	1
o-Xylene	ND		0.35		ug/m3			11/14/13 14:32	1
Styrene	ND		0.34		ug/m3			11/14/13 14:32	1
t-Butyl alcohol	ND		0.97		ug/m3			11/14/13 14:32	1
Tetrachloroethene	ND		0.54		ug/m3			11/14/13 14:32	1
Toluene	ND		0.45		ug/m3			11/14/13 14:32	1

TestAmerica Knoxville

QC Sample Results

Client: New York State D.E.C.
Project/Site: Sulzer Turbosystems #401038

TestAmerica Job ID: 140-429-1

Method: TO 15 LL - Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS)

(Continued)

Lab Sample ID: MB 140-418/1003

Matrix: Air

Analysis Batch: 418

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	ND		0.32		ug/m3			11/14/13 14:32	1
trans-1,3-Dichloropropene	ND		0.36		ug/m3			11/14/13 14:32	1
Trichloroethene	ND		0.21		ug/m3			11/14/13 14:32	1
Trichlorofluoromethane	ND		0.45		ug/m3			11/14/13 14:32	1
Vinyl chloride	ND		0.20		ug/m3			11/14/13 14:32	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		60 - 140		11/14/13 14:32	1

Lab Sample ID: LCS 140-418/1002

Matrix: Air

Analysis Batch: 418

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	2.00	2.24		ppb v/v		112	70 - 130
1,1,2,2-Tetrachloroethane	2.00	2.22		ppb v/v		111	70 - 130
1,1,2-Trichloroethane	2.00	2.15		ppb v/v		108	70 - 130
1,1,2-Trichlorotrifluoroethane	2.00	2.36		ppb v/v		118	70 - 130
1,1-Dichloroethane	2.00	1.96		ppb v/v		98	70 - 130
1,1-Dichloroethene	2.00	2.27		ppb v/v		114	70 - 130
1,2,4-Trichlorobenzene	2.00	2.46		ppb v/v		123	60 - 140
1,2,4-Trimethylbenzene	2.00	2.42		ppb v/v		121	70 - 130
1,2-Dibromoethane	2.00	2.05		ppb v/v		103	70 - 130
1,2-Dichlorobenzene	2.00	2.37		ppb v/v		119	70 - 130
1,2-Dichloroethane	2.00	2.08		ppb v/v		104	70 - 130
1,2-Dichloropropane	2.00	1.93		ppb v/v		97	70 - 130
1,2-Dichlorotetrafluoroethane	2.00	2.81		ppb v/v		140	60 - 140
1,3,5-Trimethylbenzene	2.00	2.34		ppb v/v		117	70 - 130
1,3-Dichlorobenzene	2.00	2.34		ppb v/v		117	70 - 130
1,4-Dichlorobenzene	2.00	2.31		ppb v/v		115	70 - 130
1,4-Dioxane	2.00	2.18		ppb v/v		109	60 - 140
2,2,4-Trimethylpentane	2.00	1.61		ppb v/v		80	70 - 130
2-Butanone	2.00	1.88		ppb v/v		94	60 - 140
4-Methyl-2-pentanone (MIBK)	2.00	1.34		ppb v/v		67	60 - 140
Benzene	2.00	1.88		ppb v/v		94	70 - 130
Benzyl chloride	2.00	2.49		ppb v/v		124	70 - 130
Bromodichloromethane	2.00	2.15		ppb v/v		107	70 - 130
Bromoform	2.00	1.69		ppb v/v		85	60 - 140
Bromomethane	2.00	2.75	*	ppb v/v		137	70 - 130
Carbon tetrachloride	2.00	2.46		ppb v/v		123	70 - 130
Chlorobenzene	2.00	2.09		ppb v/v		105	70 - 130
Chloroethane	2.00	2.60		ppb v/v		130	70 - 130
Chloroform	2.00	2.19		ppb v/v		109	70 - 130
Chloromethane	2.00	2.41		ppb v/v		120	60 - 140
cis-1,2-Dichloroethene	2.00	2.00		ppb v/v		100	70 - 130
cis-1,3-Dichloropropene	2.00	1.94		ppb v/v		97	70 - 130
Cyclohexane	2.00	2.07		ppb v/v		103	70 - 130

TestAmerica Knoxville

QC Sample Results

Client: New York State D.E.C.
Project/Site: Sulzer Turbosystems #401038

TestAmerica Job ID: 140-429-1

Method: TO 15 LL - Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS)

(Continued)

Lab Sample ID: LCS 140-418/1002

Matrix: Air

Analysis Batch: 418

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Dibromochloromethane	2.00	2.05		ppb v/v		102	70 - 130
Dichlorodifluoromethane	2.00	2.61		ppb v/v		131	60 - 140
Ethanol	10.0	9.70		ppb v/v		97	20 - 180
Ethylbenzene	2.00	2.06		ppb v/v		103	70 - 130
Hexachlorobutadiene	2.00	2.62		ppb v/v		131	60 - 140
Hexane	2.00	1.77		ppb v/v		88	70 - 130
Methyl tert-butyl ether	2.00	2.10		ppb v/v		105	60 - 140
Methylene Chloride	2.00	1.99		ppb v/v		99	70 - 130
m-Xylene & p-Xylene	4.00	4.54		ppb v/v		113	70 - 130
o-Xylene	2.00	2.24		ppb v/v		112	70 - 130
Styrene	2.00	2.19		ppb v/v		110	70 - 130
t-Butyl alcohol	2.00	1.75		ppb v/v		88	60 - 140
Tetrachloroethene	2.00	2.17		ppb v/v		108	70 - 130
Toluene	2.00	1.73		ppb v/v		87	70 - 130
trans-1,2-Dichloroethene	2.00	2.15		ppb v/v		107	70 - 130
trans-1,3-Dichloropropene	2.00	1.92		ppb v/v		96	70 - 130
Trichloroethene	2.00	2.03		ppb v/v		101	70 - 130
Trichlorofluoromethane	2.00	2.82	*	ppb v/v		141	60 - 140
Vinyl chloride	2.00	2.43		ppb v/v		121	70 - 130
Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	11	12.2		ug/m3		112	70 - 130
1,1,1,2-Tetrachloroethane	14	15.2		ug/m3		111	70 - 130
1,1,2-Trichloroethane	11	11.7		ug/m3		108	70 - 130
1,1,2-Trichlorotrifluoroethane	15	18.1		ug/m3		118	70 - 130
1,1-Dichloroethane	8.1	7.95		ug/m3		98	70 - 130
1,1-Dichloroethene	7.9	9.01		ug/m3		114	70 - 130
1,2,4-Trichlorobenzene	15	18.3		ug/m3		123	60 - 140
1,2,4-Trimethylbenzene	9.8	11.9		ug/m3		121	70 - 130
1,2-Dibromoethane	15	15.8		ug/m3		103	70 - 130
1,2-Dichlorobenzene	12	14.3		ug/m3		119	70 - 130
1,2-Dichloroethane	8.1	8.41		ug/m3		104	70 - 130
1,2-Dichloropropane	9.2	8.94		ug/m3		97	70 - 130
1,2-Dichlorotetrafluoroethane	14	19.6		ug/m3		140	60 - 140
1,3,5-Trimethylbenzene	9.8	11.5		ug/m3		117	70 - 130
1,3-Dichlorobenzene	12	14.1		ug/m3		117	70 - 130
1,4-Dichlorobenzene	12	13.9		ug/m3		115	70 - 130
1,4-Dioxane	7.2	7.85		ug/m3		109	60 - 140
2,2,4-Trimethylpentane	9.3	7.51		ug/m3		80	70 - 130
2-Butanone	5.9	5.53		ug/m3		94	60 - 140
4-Methyl-2-pentanone (MIBK)	8.2	5.47		ug/m3		67	60 - 140
Benzene	6.4	6.02		ug/m3		94	70 - 130
Benzyl chloride	10	12.9		ug/m3		124	70 - 130
Bromodichloromethane	13	14.4		ug/m3		107	70 - 130
Bromoform	21	17.5		ug/m3		85	60 - 140
Bromomethane	7.8	10.7	*	ug/m3		137	70 - 130
Carbon tetrachloride	13	15.5		ug/m3		123	70 - 130

TestAmerica Knoxville

QC Sample Results

Client: New York State D.E.C.
Project/Site: Sulzer Turbosystems #401038

TestAmerica Job ID: 140-429-1

Method: TO 15 LL - Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS)

(Continued)

Lab Sample ID: LCS 140-418/1002

Matrix: Air

Analysis Batch: 418

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chlorobenzene	9.2	9.64		ug/m3		105	70 - 130
Chloroethane	5.3	6.87		ug/m3		130	70 - 130
Chloroform	9.8	10.7		ug/m3		109	70 - 130
Chloromethane	4.1	4.97		ug/m3		120	60 - 140
cis-1,2-Dichloroethene	7.9	7.94		ug/m3		100	70 - 130
cis-1,3-Dichloropropene	9.1	8.82		ug/m3		97	70 - 130
Cyclohexane	6.9	7.12		ug/m3		103	70 - 130
Dibromochloromethane	17	17.5		ug/m3		102	70 - 130
Dichlorodifluoromethane	9.9	12.9		ug/m3		131	60 - 140
Ethanol	19	18.3		ug/m3		97	20 - 180
Ethylbenzene	8.7	8.97		ug/m3		103	70 - 130
Hexachlorobutadiene	21	27.9		ug/m3		131	60 - 140
Hexane	7.0	6.24		ug/m3		88	70 - 130
Methyl tert-butyl ether	7.2	7.59		ug/m3		105	60 - 140
Methylene Chloride	6.9	6.90		ug/m3		99	70 - 130
m-Xylene & p-Xylene	17	19.7		ug/m3		113	70 - 130
o-Xylene	8.7	9.71		ug/m3		112	70 - 130
Styrene	8.5	9.33		ug/m3		110	70 - 130
t-Butyl alcohol	6.1	5.32		ug/m3		88	60 - 140
Tetrachloroethene	14	14.7		ug/m3		108	70 - 130
Toluene	7.5	6.53		ug/m3		87	70 - 130
trans-1,2-Dichloroethene	7.9	8.51		ug/m3		107	70 - 130
trans-1,3-Dichloropropene	9.1	8.72		ug/m3		96	70 - 130
Trichloroethene	11	10.9		ug/m3		101	70 - 130
Trichlorofluoromethane	11	15.8	*	ug/m3		141	60 - 140
Vinyl chloride	5.1	6.21		ug/m3		121	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	121		60 - 140

QC Association Summary

Client: New York State D.E.C.
Project/Site: Sulzer Turbosystems #401038

TestAmerica Job ID: 140-429-1

Air - GC/MS VOA

Analysis Batch: 417

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
140-429-1	VP-1	Total/NA	Air	TO 15 LL	
140-429-3	AA-1	Total/NA	Air	TO 15 LL	
LCS 140-417/1002	Lab Control Sample	Total/NA	Air	TO 15 LL	
MB 140-417/1004	Method Blank	Total/NA	Air	TO 15 LL	

Analysis Batch: 418

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
140-429-2	VP-2	Total/NA	Air	TO 15 LL	
LCS 140-418/1002	Lab Control Sample	Total/NA	Air	TO 15 LL	
MB 140-418/1003	Method Blank	Total/NA	Air	TO 15 LL	

Lab Chronicle

Client: New York State D.E.C.
Project/Site: Sulzer Turbosystems #401038

TestAmerica Job ID: 140-429-1

Client Sample ID: VP-1

Date Collected: 11/09/13 11:58

Date Received: 11/12/13 10:20

Lab Sample ID: 140-429-1

Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO 15 LL		2.76	1000 mL	500 mL	417	11/14/13 00:30	AFB	TAL KNX
Instrument ID: ME										

Client Sample ID: VP-2

Date Collected: 11/09/13 11:54

Date Received: 11/12/13 10:20

Lab Sample ID: 140-429-2

Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO 15 LL		1.73	865 mL	500 mL	418	11/14/13 16:06	AFB	TAL KNX
Instrument ID: ME										

Client Sample ID: AA-1

Date Collected: 11/09/13 11:56

Date Received: 11/12/13 10:20

Lab Sample ID: 140-429-3

Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO 15 LL		1	500 mL	500 mL	417	11/14/13 02:03	AFB	TAL KNX
Instrument ID: ME										

Laboratory References:

TAL KNX = TestAmerica Knoxville, 5815 Middlebrook Pike, Knoxville, TN 37921, TEL (865)291-3000

Certification Summary

Client: New York State D.E.C.
Project/Site: Sulzer Turbosystems #401038

TestAmerica Job ID: 140-429-1

Laboratory: TestAmerica Knoxville

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
	AFCEE		N/A	
Arkansas DEQ	State Program	6	88-0688	06-17-14
California	State Program	9	2423	06-30-14
Colorado	State Program	8	N/A	02-28-14
Connecticut	State Program	1	PH-0223	09-30-15
Florida	NELAP	4	E87177	06-30-14
Georgia	State Program	4	906	06-13-14
Hawaii	State Program	9	N/A	04-13-14
Indiana	State Program	5	C-TN-02	04-13-14
Iowa	State Program	7	375	08-01-14
Kansas	NELAP	7	E-10349	10-31-14
Kentucky	State Program	4	90101	12-31-13
L-A-B	DoD ELAP		L2311	02-13-16
Louisiana	NELAP	6	83979	06-30-14
Maryland	State Program	3	277	03-31-14
Michigan	State Program	5	9933	04-13-14
Nevada	State Program	9	TN00009	07-31-14
New Jersey	NELAP	2	TN001	06-30-14
New York	NELAP	2	10781	04-01-14
North Carolina DENR	State Program	4	64	12-31-13
North Carolina DHHS	State Program	4	21705	07-31-14
Ohio VAP	State Program	5	CL0059	03-26-15
Oklahoma	State Program	6	9415	08-31-14
Pennsylvania	NELAP	3	68-00576	12-31-13
South Carolina	State Program	4	84001	06-30-14
Tennessee	State Program	4	2014	04-13-14
Texas	NELAP	6	T104704380-TX	08-31-14
USDA	Federal		P330-13-00260	08-29-16
Utah	NELAP	8	QUAN3	07-31-14
Virginia	NELAP	3	460176	09-14-14
Virginia	State Program	3	165	06-30-14
Washington	State Program	10	C593	01-19-14
West Virginia	State Program	3	9955C	12-31-13
West Virginia DEP	State Program	3	345	04-30-14
Wisconsin	State Program	5	998044300	08-31-14

Method Summary

Client: New York State D.E.C.
Project/Site: Sulzer Turbosystems #401038

TestAmerica Job ID: 140-429-1

Method	Method Description	Protocol	Laboratory
TO 15 LL	Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS)	EPA	TAL KNX

Protocol References:

EPA = US Environmental Protection Agency

Laboratory References:

TAL KNX = TestAmerica Knoxville, 5815 Middlebrook Pike, Knoxville, TN 37921, TEL (865)291-3000

Sample Summary

Client: New York State D.E.C.
Project/Site: Sulzer Turbosystems #401038

TestAmerica Job ID: 140-429-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
140-429-1	VP-1	Air	11/09/13 11:58	11/12/13 10:20
140-429-2	VP-2	Air	11/09/13 11:54	11/12/13 10:20
140-429-3	AA-1	Air	11/09/13 11:56	11/12/13 10:20

TAL Knoxville

5815 Middlebrook Pike
Knoxville, TN 37921

phone 865-291-3000 fax 865-584-4315

Canister Samples Chain of Custody Record

TestAmerica assumes no liability with respect to the collection and shipment of these samples.

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Client Contact Information Company: NYSDEC - Central Office Address: 6025 Broadway City/State/Zip: Albany, NY Phone: 518 885 4399 FAX: 518 885 4416 Project Name: Swiss Two Systems Site/location: 7 Northway Lane, Latham PO #		Project Manager: Ralph Keating Phone: 885 4399 Site Contact: S. Phelps TAL Contact:		Sampled By: Amy		1 of 1 COCs																																																																																																																																																																												
Analysis Turnaround Time Standard (Specify) X 7-14 day Rush (Specify)		<table border="1"> <thead> <tr> <th>Sample Date(s)</th> <th>Time Start</th> <th>Time Stop</th> <th>Canister Vacuum in Field, "Hg (Start)</th> <th>Canister Vacuum in Field, "Hg (Stop)</th> <th>Flow Controller ID</th> <th>Canister ID</th> <th>TO-15</th> <th>TO-14A</th> <th>EPA 3C</th> <th>EPA 25C</th> <th>ASTM D-1946</th> <th>Other (Please specify in notes section)</th> <th>Sample Type</th> <th>Indoor Air</th> <th>Ambient Air</th> <th>Soil Gas</th> <th>Landfill Gas</th> <th>Other (Please specify in notes section)</th> </tr> </thead> <tbody> <tr> <td>VP-1</td> <td>11/9/2013</td> <td>0952</td> <td>1158</td> <td>-29" Hg</td> <td>-19.5" Hg</td> <td>10300*</td> <td>10472</td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>X</td> <td></td> <td></td> </tr> <tr> <td>VP-2</td> <td></td> <td>0954</td> <td>1154</td> <td>-29" Hg</td> <td>-11" Hg</td> <td>09703</td> <td>09818</td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>X</td> <td></td> <td></td> </tr> <tr> <td>AA-1</td> <td></td> <td>0955</td> <td>1156</td> <td>-30" Hg</td> <td>-7" Hg</td> <td>09706</td> <td>10686</td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>X</td> <td></td> <td></td> <td></td> </tr> <tr> <td colspan="19" style="text-align: center;"> Samped by: Andrew Melica </td> </tr> <tr> <td colspan="19">  140-429 Chain of Custody </td> </tr> <tr> <td colspan="19"> Special Instructions/QC Requirements & Comments: * Initially Regular # 10874 was used for collection of VP-1. Sample was collected dramatically slower than other samples. Flow controller was changed @ 400 to # 10300. 5hr additional minutes were added to sample collection @ VP-1. Please use minimum [Detection Limits] </td> </tr> <tr> <td colspan="19"> Canisters Shipped by: [Signature] Canisters Received by: [Signature] Samples Relinquished by: [Signature] Relinquished by: [Signature] </td> </tr> <tr> <td colspan="19"> Date/Time: Date/Time: 11-11-2013 1322 Date/Time: 11/14/13 18:00 Date/Time: 11/12/13 1020 </td> </tr> </tbody></table>						Sample Date(s)	Time Start	Time Stop	Canister Vacuum in Field, "Hg (Start)	Canister Vacuum in Field, "Hg (Stop)	Flow Controller ID	Canister ID	TO-15	TO-14A	EPA 3C	EPA 25C	ASTM D-1946	Other (Please specify in notes section)	Sample Type	Indoor Air	Ambient Air	Soil Gas	Landfill Gas	Other (Please specify in notes section)	VP-1	11/9/2013	0952	1158	-29" Hg	-19.5" Hg	10300*	10472	X								X			VP-2		0954	1154	-29" Hg	-11" Hg	09703	09818	X								X			AA-1		0955	1156	-30" Hg	-7" Hg	09706	10686	X							X				Samped by: Andrew Melica																			 140-429 Chain of Custody																			Special Instructions/QC Requirements & Comments: * Initially Regular # 10874 was used for collection of VP-1. Sample was collected dramatically slower than other samples. Flow controller was changed @ 400 to # 10300. 5hr additional minutes were added to sample collection @ VP-1. Please use minimum [Detection Limits]																			Canisters Shipped by: [Signature] Canisters Received by: [Signature] Samples Relinquished by: [Signature] Relinquished by: [Signature]																			Date/Time: Date/Time: 11-11-2013 1322 Date/Time: 11/14/13 18:00 Date/Time: 11/12/13 1020																		
Sample Date(s)	Time Start	Time Stop	Canister Vacuum in Field, "Hg (Start)	Canister Vacuum in Field, "Hg (Stop)	Flow Controller ID	Canister ID	TO-15	TO-14A	EPA 3C	EPA 25C	ASTM D-1946	Other (Please specify in notes section)	Sample Type	Indoor Air	Ambient Air	Soil Gas	Landfill Gas	Other (Please specify in notes section)																																																																																																																																																																
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VP-2		0954	1154	-29" Hg	-11" Hg	09703	09818	X								X																																																																																																																																																																		
AA-1		0955	1156	-30" Hg	-7" Hg	09706	10686	X							X																																																																																																																																																																			
Samped by: Andrew Melica																																																																																																																																																																																		
 140-429 Chain of Custody																																																																																																																																																																																		
Special Instructions/QC Requirements & Comments: * Initially Regular # 10874 was used for collection of VP-1. Sample was collected dramatically slower than other samples. Flow controller was changed @ 400 to # 10300. 5hr additional minutes were added to sample collection @ VP-1. Please use minimum [Detection Limits]																																																																																																																																																																																		
Canisters Shipped by: [Signature] Canisters Received by: [Signature] Samples Relinquished by: [Signature] Relinquished by: [Signature]																																																																																																																																																																																		
Date/Time: Date/Time: 11-11-2013 1322 Date/Time: 11/14/13 18:00 Date/Time: 11/12/13 1020																																																																																																																																																																																		

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Login Sample Receipt Checklist

Client: New York State D.E.C.

Job Number: 140-429-1

Login Number: 429

List Source: TestAmerica Knoxville

List Number: 1

Creator: Dameron, Bryan K

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	N/A	
Cooler Temperature is acceptable.	N/A	
Cooler Temperature is recorded.		
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	N/A	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	N/A	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	N/A	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	N/A	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	
Residual Chlorine Checked.	N/A	

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[illegible]

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-379-1
 SDG No.: _____
 Client Sample ID: 09625 Lab Sample ID: 140-379-3
 Matrix: Air Lab File ID: 140-379-A-3.D
 Analysis Method: TO 15 LL Date Collected: 11/03/2013 10:35
 Sample wt/vol: 500 (mL) Date Analyzed: 11/04/2013 14:04
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 364 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND	*	0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND	*	0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND	*	0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-379-1
 SDG No.: _____
 Client Sample ID: 09625 Lab Sample ID: 140-379-3
 Matrix: Air Lab File ID: 140-379-A-3.D
 Analysis Method: TO 15 LL Date Collected: 11/03/2013 10:35
 Sample wt/vol: 500 (mL) Date Analyzed: 11/04/2013 14:04
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 364 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-379-1
 SDG No.: _____
 Client Sample ID: 09625 Lab Sample ID: 140-379-3
 Matrix: Air Lab File ID: 140-379-A-3.D
 Analysis Method: TO 15 LL Date Collected: 11/03/2013 10:35
 Sample wt/vol: 500 (mL) Date Analyzed: 11/04/2013 14:04
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 364 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND	*	0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b)thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-379-1
SDG No.: _____
Client Sample ID: 09625 Lab Sample ID: 140-379-3
Matrix: Air Lab File ID: 140-379-A-3.D
Analysis Method: TO 15 LL Date Collected: 11/03/2013 10:35
Sample wt/vol: 500 (mL) Date Analyzed: 11/04/2013 14:04
Soil Aliquot Vol: _____ Dilution Factor: 1
Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
% Moisture: _____ Level: (low/med) Low
Analysis Batch No.: 364 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20131101-176.b\140-379-A-3.D
 Lims ID: 140-379-A-3 Lab Sample ID: 140-379-3
 Client ID: 09625
 Sample Type: Client
 Inject. Date: 04-Nov-2013 14:04:30 ALS Bottle#: 9 Worklist Smp#: 4
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 09625
 Misc. Info.: E110413,TO155,,140-0000176-004
 Operator ID: 403648 Instrument ID: ME
 Method: \\KNXCHROM\ChromData\ME\20131101-176.b\ME_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 04-Nov-2013 14:57:21 Calib Date: 15-Oct-2013 18:24:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\KNXCHROM\ChromData\ME\20131015-132.b\EICVI159.D
 Column 1 : RTX-5 (0.32 mm) Detector MS SCAN
 Process Host: XAWRK014

First Level Reviewer: tajh

Date: 04-Nov-2013 14:57:21

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.356	8.361	-0.005	91	308628	4.00	
* 2 1,4-Difluorobenzene	114	10.594	10.599	-0.005	96	1517725	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.404	15.409	-0.005	93	1302198	4.00	
\$ 4 4-Bromofluorobenzene (Surr)	95	17.049	17.048	0.0	83	1109939	4.14	
44 Tetrahydrofuran	42	8.680	8.760	-0.080	2	2717	0.0340	

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20131101-176.b\140-379-A-3.D

Injection Date: 04-Nov-2013 14:04:30

Instrument ID: ME

Operator ID: 403648

Lims ID: 140-379-A-3

Lab Sample ID: 140-379-3

Worklist Smp#: 4

Client ID: 09625

Purge Vol: 500.000 mL

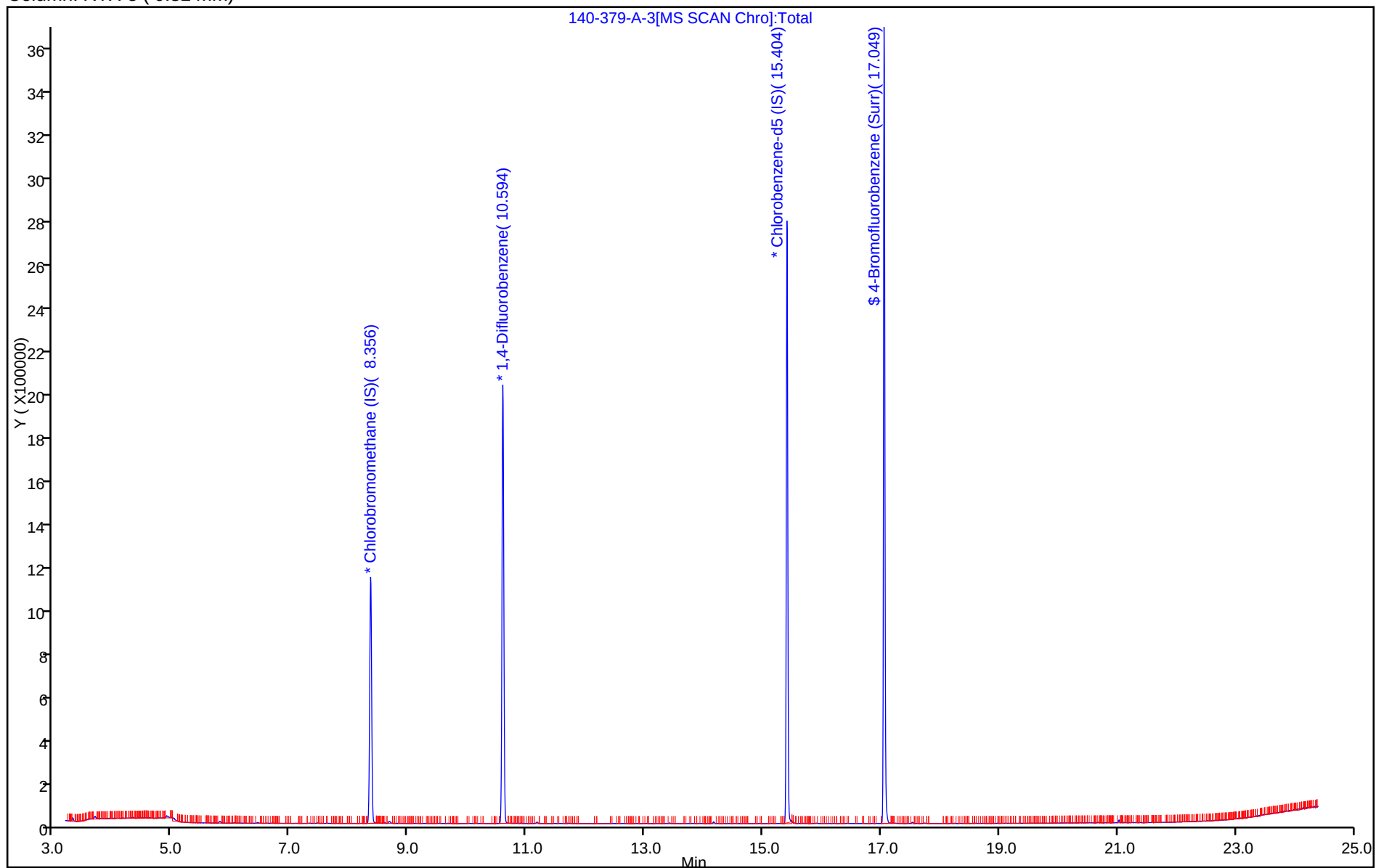
Dil. Factor: 1.0000

ALS Bottle#: 9

Method: ME_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Knoxville</u>	Job No.: <u>140-381-1</u>
SDG No.: _____	
Client Sample ID: <u>09978</u>	Lab Sample ID: <u>140-381-14</u>
Matrix: <u>Air</u>	Lab File ID: <u>140-381-A-14.D</u>
Analysis Method: <u>TO 15 LL</u>	Date Collected: <u>11/04/2013 07:45</u>
Sample wt/vol: <u>500 (mL)</u>	Date Analyzed: <u>11/05/2013 13:12</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>RTX-5</u> ID: <u>0.32 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>372</u>	Units: <u>ppb v/v</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		0.080	
100-44-7	Benzyl chloride	ND		0.16	
74-83-9	Bromomethane	ND		0.080	
56-23-5	Carbon tetrachloride	ND		0.040	
108-90-7	Chlorobenzene	ND		0.080	
75-00-3	Chloroethane	ND		0.080	
87-61-6	1,2,3-Trichlorobenzene	ND		0.40	
67-66-3	Chloroform	ND		0.080	
96-18-4	1,2,3-Trichloropropane	ND		0.20	
74-87-3	Chloromethane	ND		0.20	
95-50-1	1,2-Dichlorobenzene	ND		0.080	
541-73-1	1,3-Dichlorobenzene	ND		0.080	
106-46-7	1,4-Dichlorobenzene	ND		0.080	
75-71-8	Dichlorodifluoromethane	ND		0.080	
75-34-3	1,1-Dichloroethane	ND		0.080	
107-06-2	1,2-Dichloroethane	ND		0.080	
75-35-4	1,1-Dichloroethene	ND		0.080	
156-59-2	cis-1,2-Dichloroethene	ND		0.080	
78-87-5	1,2-Dichloropropane	ND		0.080	
123-91-1	1,4-Dioxane	ND		0.20	
78-93-3	2-Butanone	ND		0.32	
10061-01-5	cis-1,3-Dichloropropene	ND		0.080	
95-49-8	2-Chlorotoluene	ND		0.16	
10061-02-6	trans-1,3-Dichloropropene	ND		0.080	
76-14-2	1,2-Dichlorotetrafluoroethane	ND		0.080	
591-78-6	2-Hexanone	ND		0.20	
107-05-1	3-Chloroprene	ND		0.080	
100-41-4	Ethylbenzene	ND		0.080	
622-96-8	4-Ethyltoluene	ND		0.16	
75-69-4	Trichlorofluoromethane	ND		0.080	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.20	
87-68-3	Hexachlorobutadiene	ND		0.080	
67-64-1	Acetone	ND		2.0	
75-09-2	Methylene Chloride	ND		0.20	
75-05-8	Acetonitrile	ND	*	0.40	
100-42-5	Styrene	ND		0.080	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-381-1
 SDG No.: _____
 Client Sample ID: 09978 Lab Sample ID: 140-381-14
 Matrix: Air Lab File ID: 140-381-A-14.D
 Analysis Method: TO 15 LL Date Collected: 11/04/2013 07:45
 Sample wt/vol: 500(mL) Date Analyzed: 11/05/2013 13:12
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 372 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.080	
107-02-8	Acrolein	ND		0.16	
107-13-1	Acrylonitrile	ND		0.80	
127-18-4	Tetrachloroethene	ND		0.040	
98-83-9	Alpha Methyl Styrene	ND		0.16	
108-88-3	Toluene	ND		0.12	
120-82-1	1,2,4-Trichlorobenzene	ND		0.080	
71-55-6	1,1,1-Trichloroethane	ND		0.080	
75-27-4	Bromodichloromethane	ND		0.080	
79-00-5	1,1,2-Trichloroethane	ND		0.080	
75-25-2	Bromoform	ND		0.080	
79-01-6	Trichloroethene	ND		0.040	
76-13-1	1,1,2-Trichlorotrifluoroethane	ND		0.080	
95-63-6	1,2,4-Trimethylbenzene	ND		0.080	
106-97-8	Butane	ND		0.16	
108-67-8	1,3,5-Trimethylbenzene	ND		0.080	
75-15-0	Carbon disulfide	ND		0.20	
75-01-4	Vinyl chloride	ND		0.040	
95-47-6	o-Xylene	ND		0.080	
75-45-6	Chlorodifluoromethane	ND		0.080	
179601-23-1	m-Xylene & p-Xylene	ND		0.080	
106-93-4	1,2-Dibromoethane	ND		0.080	
110-82-7	Cyclohexane	ND		0.20	
124-18-5	n-Decane	ND		0.40	
124-48-1	Dibromochloromethane	ND		0.080	
74-95-3	Dibromomethane	ND		0.16	
112-40-3	n-Dodecane	ND		0.40	
64-17-5	Ethanol	ND		0.80	
141-78-6	Ethyl acetate	ND		0.80	
60-29-7	Ethyl ether	ND		0.80	
142-82-5	n-Heptane	ND		0.20	
110-54-3	Hexane	ND		0.20	
67-63-0	Isopropyl alcohol	ND		0.80	
80-62-6	Methyl methacrylate	ND		0.20	
1634-04-4	Methyl tert-butyl ether	ND		0.16	
91-20-3	Naphthalene	ND		0.20	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-381-1
 SDG No.: _____
 Client Sample ID: 09978 Lab Sample ID: 140-381-14
 Matrix: Air Lab File ID: 140-381-A-14.D
 Analysis Method: TO 15 LL Date Collected: 11/04/2013 07:45
 Sample wt/vol: 500 (mL) Date Analyzed: 11/05/2013 13:12
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 372 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
104-51-8	n-Butylbenzene	ND		0.16	
103-65-1	N-Propylbenzene	ND		0.16	
111-65-9	n-Octane	ND		0.16	
109-66-0	Pentane	ND		0.40	
115-07-1	Propene	ND		0.20	
135-98-8	sec-Butylbenzene	ND		0.16	
98-06-6	tert-Butylbenzene	ND		0.20	
109-99-9	Tetrahydrofuran	ND		0.40	
156-60-5	trans-1,2-Dichloroethene	ND		0.080	
1120-21-4	Undecane	ND		0.40	
108-05-4	Vinyl acetate	ND		0.40	
593-60-2	Vinyl bromide	ND		0.080	
488-23-3	1,2,3,4-Tetramethylbenzene	ND		0.080	
527-53-7	1,2,3,5-Tetramethylbenzene	ND		0.080	
95-93-2	1,2,4,5-Tetramethylbenzene	ND		0.080	
934-80-5	1,2-Dimethyl-4-Ethylbenzene	ND		0.080	
90-12-0	1-Methylnaphthalene	ND		1.0	
3074-71-3	2,3-Dimethylheptane	ND		0.080	
872-55-9	2-Ethylthiophene	ND		0.080	
554-14-3	2-Methylthiophene	ND		0.080	
91-57-6	2-Methylnaphthalene	ND		1.0	
616-44-4	3-Methylthiophene	ND		0.080	
95-15-8	Benzo(b)thiophene	ND		0.16	
110-02-1	Thiophene	ND		0.080	
1678-93-9	Butylcyclohexane	ND		0.080	
526-73-8	1,2,3-Trimethylbenzene	ND		0.080	
106-99-0	1,3-Butadine	ND		0.16	
540-84-1	2,2,4-Trimethylpentane	ND		0.20	
71-36-3	1-Butanol	ND		0.80	
565-59-3	2,3-Dimethylpentane	ND		0.080	
78-78-4	2-Methylbutane	ND		0.20	
107-83-5	2-Methylpentane	ND		0.080	
75-07-0	Acetaldehyde	ND		4.0	
98-82-8	Cumene	ND		0.16	
496-11-7	Indane	ND		0.080	
95-13-6	Indene	ND		0.16	

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Knoxville Job No.: 140-381-1
SDG No.: _____
Client Sample ID: 09978 Lab Sample ID: 140-381-14
Matrix: Air Lab File ID: 140-381-A-14.D
Analysis Method: TO 15 LL Date Collected: 11/04/2013 07:45
Sample wt/vol: 500 (mL) Date Analyzed: 11/05/2013 13:12
Soil Aliquot Vol: _____ Dilution Factor: 1
Soil Extract Vol.: _____ GC Column: RTX-5 ID: 0.32 (mm)
% Moisture: _____ Level: (low/med) Low
Analysis Batch No.: 372 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
99-87-6	p-Cymene	ND		0.080	
75-65-0	tert-Butanol	ND		0.32	
108-87-2	Methylcyclohexane	ND		0.080	
111-84-2	n-Nonane	ND		0.20	

TestAmerica Knoxville
Target Compound Quantitation Report

Data File: \\KNXCHROM\ChromData\ME\20131104-179.b\140-381-A-14.D
 Lims ID: 140-381-A-14 Lab Sample ID: 140-381-14
 Client ID: 09978
 Sample Type: Client
 Inject. Date: 05-Nov-2013 13:12:30 ALS Bottle#: 13 Worklist Smp#: 5
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 09978
 Misc. Info.: E110513,TO155,,140-000079-005
 Operator ID: 403648 Instrument ID: ME
 Method: \\KNXCHROM\ChromData\ME\20131104-179.b\ME_TO15.m
 Limit Group: MSA TO14A_15 Routine ICAL
 Last Update: 05-Nov-2013 15:57:06 Calib Date: 15-Oct-2013 18:24:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\KNXCHROM\ChromData\ME\20131015-132.b\EICVI159.D
 Column 1 : RTX-5 (0.32 mm) Detector MS SCAN
 Process Host: XAWRK018

First Level Reviewer: barlozhetskayaa

Date: 05-Nov-2013 13:52:24

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	128	8.356	8.361	-0.005	91	322923	4.00	
* 2 1,4-Difluorobenzene	114	10.594	10.599	-0.005	96	1628235	4.00	
* 3 Chlorobenzene-d5 (IS)	117	15.404	15.409	-0.005	94	1381204	4.00	
\$ 4 4-Bromofluorobenzene (Surr)	95	17.048	17.048	0.0	83	1194887	4.20	
14 Butane	43	3.778	3.778	0.0	90	13028	0.0758	
19 2-Methylbutane	43	4.549	4.543	0.006	76	4467	0.0345	
31 Methylene Chloride	84	5.800	5.800	0.0	91	8388	0.0857	

TestAmerica Knoxville

Data File: \\KNXCHROM\ChromData\ME\20131104-179.b\140-381-A-14.D

Injection Date: 05-Nov-2013 13:12:30

Instrument ID: ME

Operator ID: 403648

Lims ID: 140-381-A-14

Lab Sample ID: 140-381-14

Worklist Smp#: 5

Client ID: 09978

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

ALS Bottle#: 13

Method: ME_TO15

Limit Group: MSA TO14A_15 Routine ICAL

Column: RTX-5 (0.32 mm)

