

September 13, 2017

Ms. Jamie Verrigni
NYSDEC
Division of Environmental Remediation
625 Broadway, 11th floor
Albany, NY 12233-7014
sent via jamie.verrigni@dec.ny.gov

*Re: Supplemental Soil Gas Investigation Results
Lower South Street Redevelopment Area (BCP Site C360145)
Peekskill, Westchester County, New York
Chazen Job #81323.07*

Dear Jamie:

This letter report presents the results of the Supplemental Soil Gas Investigation of the Site C360145 as requested by the New York State Department of Health on August 15, 2017. The work was completed in accordance with the NYSDEC and NYSDOH approved work plan. Field sampling techniques were consistent with the previously-approved Work Plan and Quality Assurance Program Plan that were approved in June of 2016.

On August 23, 2017, Chazen mobilized to the site and collected six additional 8-hour duration soil gas samples (identified as SV-09 through SV-14) and one outdoor air sample. The samples were collected at the approximate locations shown on the attached figure. The samples were submitted to Chemtech laboratory and analyzed for volatile organic compounds (VOCs) via EPA Method TO-15. The analytical results are summarized in the attached table, and the complete ASP-B data package is attached.

No VOCs were reported at concentrations greater than the respective NYSDOH matrix values for sub-slab soil vapor, and results for the NYSDOH matrix constituents were generally non-detect except as follows.

- Tetrachloroethene (PCE) was reported at 44.8 $\mu\text{g}/\text{m}^3$ in sample SV-09, collected near the northwest corner of 1009 Lower South Street. The two up-gradient samples collected at SV-07 and SV-08 reported lower concentrations than this 2017 boundary sample.
- Trace concentrations of carbon tetrachloride (0.44 $\mu\text{g}/\text{m}^3$) and PCE (0.41 $\mu\text{g}/\text{m}^3$) were reported in sample SV-12. These compounds were not reported in nearby downgradient samples SV-10 or SV-11.

The results from the recent sampling combined with the previous soil vapor samples collected for the site do not indicate off-site migration of a soil vapor plume.

The combined results of the 2016 Remedial Investigation and this 2017 supplemental sampling data for the Site support a finding of No Significant Threat for the following reasons:

1. There is no evidence of a significant or sustained release of free phase product at the site;

2. There is no evidence of a source area for soil vapor has been identified; and
3. The vapor data does not demonstrate an on-site VOC plume migrating off the site.

Upon review, assuming you concur with our findings, we respectfully request your approval of the Remedial Action Work Plan and issuance of the Decision Document.

Sincerely,



Arlette St. Romain
Director, Environmental Due Diligence and Brownfield Investigations

cc:

Amen Omorogbe (NYSDEC)
George Heitzman (NYSDEC)

Steven Karpinski (NYSDOH)
Steven Berninger (NYSDOH)
Maureen Schuck (NYSDOH)

Jim Pinto (City)
Kevin McGrath (Chazen)

Attachments:

Sample Location Figure
Laboratory Results Summary Table for VOCs in Soil Vapor and Outdoor Air
Chemtech Analytical Report

1. EXISTING CONDITIONS SHOWN ON THIS DRAWING HAVE BEEN TAKEN FROM A COMPILATION OF DATA PROVIDED BY WESTCHESTER COUNTY GEOGRAPHIC INFORMATION SYSTEMS AND ARE APPROXIMATE.
2. PERCHED WATER ENCOUNTERED INFREQUENTLY. GWQS EXCEEDENCES NOTED FOR TP3 AND TP8 ARE LISTED.

Fig 1

Lower South Street BCP Supplemental Remedial Investigation
Table 1. VOCs in Soil Vapor and Outdoor Air - August 2017

Building #/LLS Location	Northwest corner of 1009 LSS	Southern border of 1017 LSS; south of Office	Western border of 1017 LSS; west of Office	Western area of 1017 LSS; north of Office	Northern border of 1011 LSS near Travis Lane	Western border of 1011 LSS near Route 9	1009 LSS	Select NIOSH permissible exposure limits (PELs)
Sample Location	SV-09	SV-10	SV-11	SV-12	SV-13	SV-14	Outdoor Air	
Sample Type	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Outdoor Air	
Sample ID	SV-09	SV-10	SV-11	SV-12	SV-13	SV-14	OUTDOOR-AIR	
Lab Sample Number	I4984-01	I4984-02	I4984-03	I4984-04	I4984-06	I4984-07	I4987-05	
Sampling Date	8/23/2017	8/23/2017	8/23/2017	8/23/2017	8/23/2017	8/23/2017	8/23/2017	
Matrix	Air	Air	Air	Air	Air	Air	Air	
Units	µg/m ³						µg/m ³	µg/m ³
NYSDOH SVI Matrices Compounds								
1,1,1-Trichloroethane ^(A)	ND<1.64	ND<1.64	ND<1.64	ND<0.16	ND<1.64	ND<1.64	ND<0.16	
1,1-Dichloroethene ^(A)	ND<19.8	ND<19.8	ND<19.8	ND<1.98	ND<19.8	ND<19.8	ND<1.98	
Carbon Tetrachloride ^(A)	ND<1.89	ND<1.89	ND<1.89	0.44	ND<1.89	ND<1.89	ND<0.19	
cis-1,2-Dichloroethene ^(A)	ND<19.8	ND<19.8	ND<19.8	ND<1.98	ND<19.8	ND<19.8	ND<1.98	
Methylene Chloride ^(B)	29.2 B	14.6 JB	14.9 JB	3.34 B	17.4 B	16.7 JB	3.82 B	
Tetrachloroethene ^(B)	44.8	ND<2.03	ND<2.03	0.41	ND<2.03	ND<2.03	2.31	
Trichloroethene ^(A)	ND<1.61	ND<1.61	ND<1.61	ND<0.16	ND<1.61	ND<1.61	1.13	
Vinyl Chloride ^(C)	ND<0.77	ND<0.77	ND<0.77	ND<0.08	ND<0.77	ND<0.77	ND<0.08	
Additional TO-15 VOCs								
1,1,2,2-Tetrachloroethane	ND<34.3	ND<34.3	ND<34.3	ND<3.43	ND<34.3	ND<34.3	ND<3.43	
1,1,2-Trichloroethane	ND<27.3	ND<27.3	ND<27.3	ND<2.73	ND<27.3	ND<27.3	ND<2.73	
1,1,2-Trichlorotrifluoroethane	ND<38.3	ND<38.3	ND<38.3	ND<3.83	ND<38.3	ND<38.3	ND<3.83	
1,1-Dichloroethane	ND<20.2	ND<20.2	ND<20.2	ND<2.02	ND<20.2	ND<20.2	ND<2.02	
1,2,4-Trichlorobenzene	ND<37.1	ND<37.1	ND<37.1	ND<3.71	ND<37.1	ND<37.1	ND<3.71	
1,2,4-Trimethylbenzene	16.2 J	ND<24.6	14.3 J	ND<2.46	13.8 J	13.3 j	2.02 J	
1,2-Dibromoethane	ND<38.4	ND<38.4	ND<38.4	ND<3.84	ND<38.4	ND<38.4	ND<3.84	
1,2-Dichlorobenzene	ND<30.1	ND<30.1	ND<30.1	ND<3.01	ND<30.1	ND<30.1	ND<3.01	
1,2-Dichloroethane	ND<20.2	ND<20.2	ND<20.2	ND<2.02	ND<20.2	ND<20.2	ND<2.02	
1,2-Dichloropropane	ND<23.1	ND<23.1	ND<23.1	ND<2.31	ND<23.1	ND<23.1	ND<2.31	
1,3,5-Trimethylbenzene	5.41 J	ND<24.6	ND<24.6	ND<2.46	ND<24.6	ND<24.6	0.88 J	
1,3-Butadiene	ND<11.1	ND<11.1	ND<11.1	ND<1.11	ND<11.1	ND<11.1	ND<1.11	
1,3-Dichlorobenzene	ND<30.1	ND<30.1	ND<30.1	ND<3.01	ND<30.1	ND<30.1	ND<3.01	
1,4-Dichlorobenzene	ND<30.1	ND<30.1	ND<30.1	ND<3.01	ND<30.1	ND<30.1	ND<3.01	
1,4-Dioxane	ND<18.0	ND<18.0	ND<18.0	ND<1.8	ND<18.0	ND<18.0	ND<1.8	
2,2,4-Trimethylpentane	46.2	141	58.8	8.87	71.5	117	20.1	
2-Butanone	324	678 D	153	28.9	293	383	25.7	590,000
2-Chlorotoluene	ND<25.9	ND<25.9	ND<25.9	ND<2.59	ND<25.9	ND<25.9	ND<2.59	
4-Ethyltoluene	ND<24.6	ND<24.6	6.39 J	ND<2.46	5.41 J	4.92 J	0.59 J	
4-Methyl-2-Pentanone	ND<20.5	ND<20.5	ND<20.5	ND<2.05	ND<20.5	ND<20.5	ND<2.05	
Acetone	150	332	107	18.5	237	144	9.98	
Allyl Chloride	ND<15.6	ND<15.6	ND<15.6	ND<1.57	ND<15.6	ND<15.6	ND<1.57	
Benzene	33.2	35.1	30	6.71	35.1	53	15.3	
Bromodichloromethane	ND<33.5	ND<33.5	ND<33.5	ND<3.35	ND<33.5	ND<33.5	ND<3.35	

Table 1. VOCs in Soil Vapor and Outdoor Air - August 2017

Building #/LLS Location	Northwest corner of 1009 LSS	Southern border of 1017 LSS; south of Office	Western border of 1017 LSS; west of Office	Western area of 1017 LSS; north of Office	Northern border of 1011 LSS near Travis Lane	Western border of 1011 LSS near Route 9	1009 LSS	Select NIOSH permissible exposure limits (PELs)
Sample Location	SV-09	SV-10	SV-11	SV-12	SV-13	SV-14	Outdoor Air	
Sample Type	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Soil Vapor	Outdoor Air	
Sample ID	SV-09	SV-10	SV-11	SV-12	SV-13	SV-14	OUTDOOR-AIR	
Lab Sample Number	I4984-01	I4984-02	I4984-03	I4984-04	I4984-06	I4984-07	I4987-05	
Sampling Date	8/23/2017	8/23/2017	8/23/2017	8/23/2017	8/23/2017	8/23/2017	8/23/2017	
Matrix	Air	Air	Air	Air	Air	Air	Air	
Units	$\mu\text{g}/\text{m}^3$						$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$
Bromoethene	ND<21.9	ND<21.9	ND<21.9	ND<2.19	ND<21.9	ND<21.9	ND<2.19	
Bromoform	ND<51.7	ND<51.7	ND<51.7	ND<5.17	ND<51.7	ND<51.7	ND<5.17	
Bromomethane	ND<19.4	ND<19.4	ND<19.4	ND<1.94	ND<19.4	ND<19.4	ND<1.94	
Carbon Disulfide	8.41 J	ND<15.6	65.4	ND<1.56	27.7	ND<15.6	ND<1.56	
Chlorobenzene	ND<23.0	ND<23.0	ND<23.0	ND<2.3	ND<23.0	ND<23.0	ND<2.3	
Chloroethane	ND<13.2	ND<13.2	ND<13.2	ND<1.32	ND<13.2	ND<13.2	ND<1.32	
Chloroform	ND<24.4	ND<24.4	7.33 J	ND<2.44	11.2 J	ND<24.4	ND<2.44	
Chloromethane	ND<10.3	ND<10.3	ND<10.3	0.93 J	ND<10.3	ND<10.3	0.91 J	
cis-1,3-Dichloropropene	ND<22.7	ND<22.7	ND<22.7	ND<2.27	ND<22.7	ND<22.7	ND<2.27	
Cyclohexane	21.7	46.8	34.4	7.92	31.7	57.1	7.57	1,050,000
Dibromochloromethane	ND<42.6	ND<42.6	ND<42.6	ND<4.26	ND<42.6	ND<42.6	ND<4.26	
Dichlorodifluoromethane	ND<24.7	6.92 J	8.41 J	0.69 J	9.4 J	ND<24.7	ND<2.47	4,950,000
Dichlorotetrafluoroethane	ND<35.0	ND<35.0	ND<35.0	ND<3.49	25.2 J	ND<35.0	ND<3.49	
Ethyl Benzene	19.6 J	17.4 J	26.1	2.48	20.8 J	20.8 J	6.52	435,000
Heptane	18.4 J	34.8	31.2	5.33	29.1	47.1	18.8	2,000,000
Hexachloro-1,3-Butadiene	ND<53.3	ND<53.3	ND<53.3	ND<5.33	ND<53.3	ND<53.3	ND<5.33	
Hexane	101	125	97.6	26.4	110	181	69.8 D	1,800,000
m/p-Xylene	58.6	44.7	78.6	6.08	63	63	7.82	435,000
Methyl Methacrylate	ND<20.5	ND<20.5	ND<20.5	ND<2.05	ND<20.5	ND<20.5	ND<2.05	
Methyl tert-Butyl Ether	ND<18.0	ND<18.0	ND<18.0	ND<1.8	ND<18.0	ND<18.0	ND<1.8	
Methylene Chloride	29.2 B	14.6 JB	14.9 JB	3.34 B	17.4 B	16.7 JB	3.82 B	
Naphthalene	ND<26.2	ND<26.2	ND<26.2	ND<2.62	ND<26.2	ND<26.2	ND<2.62	
o-Xylene	23	14.3 J	28.2	1.43 J	23.5	23.5	2.78	435,000
Styrene	15.3 J	23	27.2	4.17	ND<21.3	ND<21.3	11.1	
t-1,3-Dichloropropene	ND<22.7	ND<22.7	ND<22.7	ND<2.27	ND<22.7	ND<22.7	ND<2.27	
tert-Butyl alcohol	33	ND<15.2	ND<15.2	ND<1.52	39.4	ND<15.2	ND<1.52	
Tetrahydrofuran	914 D	1533 D	530 D	47.5 D	1061 D	1179 D	27.7	590,000
Toluene	142	160	157	22.6	157	211	72.7 D	750,000
trans-1,2-Dichloroethene	ND<19.8	ND<19.8	ND<19.8	ND<1.98	ND<19.8	ND<19.8	ND<1.98	
Trichlorofluoromethane	ND<28.1	114	54	1.12 J	81.5	24.2 J	1.29 J	5,600,000

NOTES:

(A) NYSDOH SVI Guidance Matrix A. Subslab vapor guidance levels: <6 NFA

(B) NYSDOH SVI Guidance Matrix B. Subslab vapor guidance levels: <100 NFA

(C) NYSDOH SVI Guidance Matrix C. Subslab vapor guidance levels: <6 NFA

B - Indicates the analyte was found in the blank as well as the sample report as

J - Indicates an estimated value.

D - Indicates an analysis at a secondary dilution factor.

E - Indicates the analyte's concentration exceeds the calibrated range of the instrument for that specific analysis.

ANALYTICAL RESULTS SUMMARY

VOLATILE ORGANICS

PROJECT NAME : AIR 81323.07 KARTA

CHAZEN COMPANIES

Flanigan Square, 547 River Street

Troy, NY - 12180

Phone No: 845-567-1133

ORDER ID : I4984

ATTENTION : Will Olsen



DoD ELAP

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Cover Page

Order ID : I4984

Project ID : Air 81323.07 Karta

Client : Chazen Companies

Lab Sample Number

I4984-01
I4984-02
I4984-03
I4984-04
I4984-05
I4984-06
I4984-07

Client Sample Number

SV-09
SV-10
SV-11
SV-12
OUTDOOR-AIR
SV-13
SV-14

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the laboratory manager or his designee, as verified by the following signature.

Signature :

REVIEWED

By kalpana, Data Reviewer at 11:03 am, Sep 08, 2017

Date: 9/5/2017

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION							
FORM S-I							
SAMPLE IDENTIFICATION AND ANALYTICAL REQUIREMENT SUMMARY							
NYSDEC Sample ID/Code	Laboratory Sample ID/Code	VOA GC/MS (Method #)	BNA GC/MS (Method #)	VOA GC (Method #)	Pest PCBs (Method #)	Metals (Method #)	Other (Method #)
SV-09	I4984-01	TO-15					
SV-10	I4984-02	TO-15					
SV-11	I4984-03	TO-15					
SV-12	I4984-04	TO-15					
OUTDOOR- AIR	I4984-05	TO-15					
SV-13	I4984-06	TO-15					
SV-14	I4984-07	TO-15					

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
FORM S-IIa
SAMPLE PREPARATION AND ANALYSIS SUMMARY SEMIVOLATILE (BNA) ANALYSES

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
FORM S-IIb
SAMPLE PREPARATION AND ANALYSIS SUMMARY VOLATILE (VOA) ANALYSES

Laboratory Sample ID	Matrix	Date Collected	Date Rec'd at Lab	Date Extracted	Date Analyzed
I4984-01	Air	08/23/17	08/25/17		08/28/17
I4984-02	Air	08/23/17	08/25/17		08/28/17
I4984-03	Air	08/23/17	08/25/17		08/28/17
I4984-04	Air	08/23/17	08/25/17		08/29/17
I4984-05	Air	08/23/17	08/25/17		08/28/17
I4984-06	Air	08/23/17	08/25/17		08/28/17
I4984-07	Air	08/23/17	08/25/17		08/28/17

* Details For Test :TO-15

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION					
FORM S-III					
SAMPLE PREPARATION AND ANALYSIS SUMMARY MISCELLANEOUS ORGANIC ANALYSES					
Laboratory Sample ID	Matrix	Analytical Protocol	Extraction Method	Auxiliary Cleanup	Dil / Conc Factor
I4984-01	Air	TO-15	NA		
I4984-02	Air	TO-15	NA		
I4984-03	Air	TO-15	NA		
I4984-04	Air	TO-15	NA		
I4984-05	Air	TO-15	NA		
I4984-06	Air	TO-15	NA		
I4984-07	Air	TO-15	NA		

CASE NARRATIVE

Chazen Companies

Project Name: Air 81323.07 Karta

Project # N/A

Chemtech Project # I4984

Test Name: TO-15

A. Number of Samples and Date of Receipt:

7 Air samples were received on 08/25/2017.

B. Parameters

According to the Chain of Custody document, the following analyses were requested: SUMMA Canister Rental and TO-15. This data package contains results for TO-15.

C. Analytical Techniques:

The analysis performed on instrument MSVOA_L were done using GC column RTX-1, which is 60 meters, 0.32 mm id, 1.0 um df, Restek Cat. #10157. The Trap was supplied by Entech, glass bead and Tenax , Entech 7100A Preconcentrator. The analysis of TO-15 was based on method TO-15.

D. QA/ QC Samples:

The Holding Times were met for all analysis.

The Surrogate recoveries met the acceptable criteria.

The Internal Standards Areas met the acceptable requirements.

The Retention Times were acceptable for all samples.

The RPD for {I4984-05DUP} with File ID: VL030721.D recoveries met criteria except for Methylene Chloride[70.6%] .

The Blank Spike met requirements for all samples .

The Blank analysis indicated presence of Methylene Chloride[0.16 ppbv]

FileID:VL030711.D{VL0828ABL01}, Methylene Chloride[0.28 ppbv]

FileID:VL030740.D{VL0830ABL01} due to possible lab contamination.

The Initial Calibration met the requirements .

The Continuous Calibration met the requirements .

The Tuning criteria met requirements.

E. Additional Comments:

Samples SV-09, SV-10, SV-11, SV-13 and SV-14 were diluted Due to potential high concentration of target analytes, samples were initially analyzed at a dilution.

Samples SV-09, SV-10, SV-11, SV-12, OUTDOOR-AIR, SV-13 and SV-14 were diluted due to high concentrations.

Due system limitation form06 (initial calibration form) cannot generated with all 7points. Therefore only response factor form is reported for method VL081617.

The Manual Integrations are performed for the followings:

Manual Integration Report							
Sequence	VI081617	Instrument			MSVOA_I		
Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICCC010	VL030663.D	m/p-Xylene	sam	8/17/2017 11:47:38 AM	MMDadoda	8/17/2017 1:42:45 PM	Peak Integrated by Software incorrectly
VSTDICCC002	VL030664.D	1,1,2-Trichloroethane	sam	8/17/2017 11:47:44 AM	MMDadoda	8/17/2017 1:42:47 PM	Peak Integrated by Software incorrectly
VSTDICCC002	VL030664.D	1,2-Dibromoethane	sam	8/17/2017 11:47:44 AM	MMDadoda	8/17/2017 1:42:47 PM	Peak Integrated by Software incorrectly
VSTDICCC002	VL030664.D	1,4-Dioxane	sam	8/17/2017 11:47:44 AM	MMDadoda	8/17/2017 1:42:47 PM	Peak Integrated by Software incorrectly
VSTDICCC002	VL030664.D	Carbon Tetrachloride	sam	8/17/2017 11:47:44 AM	MMDadoda	8/17/2017 1:42:47 PM	Peak Integrated by Software incorrectly
VSTDICCC002	VL030664.D	Chloroethane	sam	8/17/2017 11:47:44 AM	MMDadoda	8/17/2017 1:42:47 PM	Peak Integrated by Software incorrectly
VSTDICCC002	VL030664.D	Ethanol	sam	8/17/2017 11:47:44 AM	MMDadoda	8/17/2017 1:42:47 PM	Peak Integrated by Software incorrectly
VSTDICCC002	VL030664.D	m/p-Xylene	sam	8/17/2017 11:47:44 AM	MMDadoda	8/17/2017 1:42:47 PM	Peak Integrated by Software incorrectly
VSTDICCC001	VL030665.D	1,2,4-Trichlorobenzene	sam	8/17/2017	MMDadoda	8/17/2017 1:42:48 PM	Peak Integrated

				11:47:49 AM			by Software incorrectly
VSTDICC001	VL030665.D	1,2-Dichloropropane	sam	8/17/2017 11:47:49 AM	MMDadoda	8/17/2017 1:42:48 PM	Peak Integrated by Software incorrectly
VSTDICC001	VL030665.D	1,3-Dichlorobenzene	sam	8/17/2017 11:47:49 AM	MMDadoda	8/17/2017 1:42:48 PM	Peak Integrated by Software incorrectly

Sequence		VI081617	Instrument		MSVOA_I		
Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC001	VL030665.D	1,4-Dioxane	sam	8/17/2017 11:47:49 AM	MMDadoda	8/17/2017 1:42:48 PM	Peak Integrated by Software incorrectly
VSTDICC001	VL030665.D	Benzyl Chloride	sam	8/17/2017 11:47:49 AM	MMDadoda	8/17/2017 1:42:48 PM	Peak Integrated by Software incorrectly
VSTDICC001	VL030665.D	Chloroethane	sam	8/17/2017 11:47:49 AM	MMDadoda	8/17/2017 1:42:48 PM	Peak Integrated by Software incorrectly
VSTDICC001	VL030665.D	Cyclohexane	sam	8/17/2017 11:47:49 AM	MMDadoda	8/17/2017 1:42:48 PM	Peak Integrated by Software incorrectly
VSTDICC001	VL030665.D	Ethanol	sam	8/17/2017 11:47:49 AM	MMDadoda	8/17/2017 1:42:48 PM	Peak Integrated by Software incorrectly
VSTDICC001	VL030665.D	m/p-Xylene	sam	8/17/2017 11:47:49 AM	MMDadoda	8/17/2017 1:42:48 PM	Peak Integrated by Software incorrectly
VSTDICC001	VL030665.D	n-propylbenzene	sam	8/17/2017 11:47:49 AM	MMDadoda	8/17/2017 1:42:48 PM	Peak Integrated by Software incorrectly
VSTDICC001	VL030665.D	tert-Butyl alcohol	sam	8/17/2017 11:47:49 AM	MMDadoda	8/17/2017 1:42:48 PM	Peak Integrated by

				AM			Software incorrectly
VSTDICC001	VL030665.D	Tetrachloroethene	sam	8/17/2017 11:47:49 AM	MMDadoda	8/17/2017 1:42:48 PM	Peak Integrated by Software incorrectly
VSTDICC0.5	VL030666.D	1,1,1,2-Tetrachloroethane	sam	8/17/2017 11:50:21 AM	MMDadoda	8/17/2017 1:42:50 PM	Peak Integrated by Software incorrectly
VSTDICC0.5	VL030666.D	1,1,2,2-Tetrachloroethane	sam	8/17/2017 11:50:21 AM	MMDadoda	8/17/2017 1:42:50 PM	Peak Integrated by Software incorrectly
VSTDICC0.5	VL030666.D	1,1,2-Trichloroethane	sam	8/17/2017 11:50:21 AM	MMDadoda	8/17/2017 1:42:50 PM	Peak Integrated by Software incorrectly

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC0.5	VL030666.D	Propene	sam	8/17/2017 11:50:21 AM	MMDadoda	8/17/2017 1:42:50 PM	Peak Integrated by Software incorrectly
VSTDICC0.5	VL030666.D	Styrene	sam	8/17/2017 11:50:21 AM	MMDadoda	8/17/2017 1:42:50 PM	Peak Integrated by Software incorrectly
VSTDICC0.5	VL030666.D	t-1,3-Dichloropropene	sam	8/17/2017 11:50:21 AM	MMDadoda	8/17/2017 1:42:50 PM	Peak Integrated by Software incorrectly
VSTDICC0.5	VL030666.D	tert-Butyl alcohol	sam	8/17/2017 11:50:21 AM	MMDadoda	8/17/2017 1:42:50 PM	Peak Integrated by Software incorrectly
VSTDICC0.5	VL030666.D	tert-Butylbenzene	sam	8/17/2017 11:50:21 AM	MMDadoda	8/17/2017 1:42:50 PM	Peak Integrated by Software incorrectly
VSTDICC0.5	VL030666.D	Trichloroethene	sam	8/17/2017 11:50:21 AM	MMDadoda	8/17/2017 1:42:50 PM	Peak Integrated by Software incorrectly
VSTDICC0.1	VL030667.	1,1,1-	sam	8/17/2017	MMDadoda	8/17/2017	Peak

	D	Trichloroethane		7 11:47:54 AM		1:42:52 PM	Integrated by Software incorrectly
VSTDICC0.1	VL030667. D	1,1,2,2- Tetrachloroethane	sam	8/17/201 7 11:47:54 AM	MMDadoda	8/17/2017 1:42:52 PM	Peak Integrated by Software incorrectly
VSTDICC0.1	VL030667. D	Carbon Tetrachloride	sam	8/17/201 7 11:47:54 AM	MMDadoda	8/17/2017 1:42:52 PM	Peak Integrated by Software incorrectly
VSTDICC0.1	VL030667. D	Tetrachloroethene	sam	8/17/201 7 11:47:54 AM	MMDadoda	8/17/2017 1:42:52 PM	Peak Integrated by Software incorrectly
VSTDICC0.1	VL030667. D	Trichloroethene	sam	8/17/201 7 11:47:54 AM	MMDadoda	8/17/2017 1:42:52 PM	Peak Integrated by Software incorrectly
VSTDICC0.03	VL030668. D	1,1,1- Trichloroethane	sam	8/17/201 7 11:50:27 AM	MMDadoda	8/17/2017 1:42:53 PM	Peak Integrated by Software incorrectly

VSTDICC0.03	VL030668. D	1,1,2,2- Tetrachloroethane	sam	8/17/201 7 11:50:27 AM	MMDadoda	8/17/20 17 1:42:53 PM	Peak Integrated by Software incorrectly
VSTDICC0.03	VL030668. D	Carbon Tetrachloride	sam	8/17/201 7 11:50:27 AM	MMDadoda	8/17/20 17 1:42:53 PM	Peak Integrated by Software incorrectly
VSTDICC0.03	VL030668. D	Tetrachloroethene	sam	8/17/201 7 11:50:27 AM	MMDadoda	8/17/20 17 1:42:53 PM	Peak Integrated by Software incorrectly
VSTDICC0.03	VL030668. D	Trichloroethene	sam	8/17/201 7 11:50:27 AM	MMDadoda	8/17/20 17 1:42:53 PM	Peak Integrated by Software incorrectly
VSTDICC0.03	VL030668. D	Vinyl Chloride	sam	8/17/201 7 11:50:27 AM	MMDadoda	8/17/20 17 1:42:53 PM	Peak Integrated by Software incorrectly
VSTDICC015	VL030669. D	Chlorobenzene-d5	sam	8/17/201 7 11:49:34 AM	MMDadoda	8/17/20 17 1:42:54 PM	Peak Integrated by Software incorrectly

VSTDICC015	VL030669.D	m/p-Xylene	sam	8/17/2017 11:49:34 AM	MMDadoda	8/17/2017 1:42:54 PM	Peak Integrated by Software incorrectly
VSTDICC015	VL030669.D	tert-Butyl alcohol	sam	8/17/2017 11:49:34 AM	MMDadoda	8/17/2017 1:42:54 PM	Peak Integrated by Software incorrectly
VSTDICC015	VL030669.D	Vinyl Acetate	sam	8/17/2017 11:49:34 AM	MMDadoda	8/17/2017 1:42:54 PM	Peak Integrated by Software incorrectly
VSTDICV010	VL030670.D	1,4-Dioxane	sam	8/17/2017 11:48:04 AM	MMDadoda	8/17/2017 1:42:55 PM	Peak Integrated by Software incorrectly
VSTDICV010	VL030670.D	Bromoform	sam	8/17/2017 11:48:04 AM	MMDadoda	8/17/2017 1:42:55 PM	Peak Integrated by Software incorrectly
VSTDICV010	VL030670.D	Chlorobenzene-d5	sam	8/17/2017 11:48:04 AM	MMDadoda	8/17/2017 1:42:55 PM	Peak Integrated by Software incorrectly

VSTDICV010	VL030670.D	m/p-Xylene	sam	8/17/2017 11:48:04 AM	MMDadoda	8/17/2017 1:42:55 PM	Peak Integrated by Software incorrectly
VSTDICV010	VL030670.D	tert-Butyl alcohol	sam	8/17/2017 11:48:04 AM	MMDadoda	8/17/2017 1:42:55 PM	Peak Integrated by Software incorrectly

Sequence	VI082817	Instrument			MSVOA_I		
Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC010	VL030710.D	1,4-Dioxane	sam	8/30/2017 12:35:44 PM	MMDadoda	8/30/2017 1:19:00 PM	Peak Integrated by Software incorrectly
VSTDCCC010	VL030710.D	m/p-Xylene	sam	8/30/2017 12:35:44 PM	MMDadoda	8/30/2017 1:19:00 PM	Peak Integrated by Software incorrectly
VL0828ABL01	VL030711.D	Methylene Chloride	sam	8/30/2017 12:35:48 PM	MMDadoda	8/30/2017 1:19:02 PM	Peak Integrated by Software incorrectly
VL0828ABS01	VL030712.D	1,3-Butadiene	sam	8/30/2017	MMDadoda	8/30/2017 1:19:03 PM	Peak Integrated

				12:37:45 PM			by Software incorrectly
VL0828ABS01	VL030712.D	Chlorobenzene-d5	sam	8/30/2017 12:37:45 PM	MMDadoda	8/30/2017 1:19:03 PM	Peak Integrated by Software incorrectly
VL0828ABS01	VL030712.D	m/p-Xylene	sam	8/30/2017 12:37:45 PM	MMDadoda	8/30/2017 1:19:03 PM	Peak Integrated by Software incorrectly
I4984-01	VL030713.D	1,2,4-Trimethylbenzene	sam	8/30/2017 12:35:53 PM	MMDadoda	8/30/2017 1:19:04 PM	Peak Integrated by Software incorrectly
I4984-01	VL030713.D	1,3,5-Trimethylbenzene	sam	8/30/2017 12:35:53 PM	MMDadoda	8/30/2017 1:19:04 PM	Peak Integrated by Software incorrectly
I4984-01	VL030713.D	Isopropyl Alcohol	sam	8/30/2017 12:35:53 PM	MMDadoda	8/30/2017 1:19:04 PM	Peak Integrated by Software incorrectly
I4984-01	VL030713.D	m/p-Xylene	sam	8/30/2017 12:35:53 PM	MMDadoda	8/30/2017 1:19:04 PM	Peak Integrated by Software incorrectly
I4984-01	VL030713.D	Styrene	sam	8/30/2017 12:35:53 PM	MMDadoda	8/30/2017 1:19:04 PM	Peak Integrated by Software incorrectly

I4984-01	VL030713.D	Tetrachloroethene	sam	8/30/2017 12:35:53 PM	MMDadoda	8/30/2017 1:19:04 PM	Peak Integrated by Software incorrectly
I4984-02	VL030714.D	1,2,4-Trimethylbenzene	sam	8/30/2017 12:35:59 PM	MMDadoda	8/30/2017 1:19:05 PM	Peak Integrated by Software incorrectly
I4984-02	VL030714.D	Acetone	sam	8/30/2017 12:35:59 PM	MMDadoda	8/30/2017 1:19:05 PM	Peak Integrated by Software incorrectly
I4984-02	VL030714.D	Styrene	sam	8/30/2017 12:35:59 PM	MMDadoda	8/30/2017 1:19:05 PM	Peak Integrated by Software incorrectly
I4984-	VL030715.	4-Ethyltoluene	sam	8/30/2017	MMDadoda	8/30/2017	Peak Integrated

03	D			12:37:49 PM		7 1:19:06 PM	by Software incorrectly
I4984-03	VL030715.D	Chloroform	sam	8/30/2017 12:37:49 PM	MMDadoda	8/30/2017 1:19:06 PM	Peak Integrated by Software incorrectly
I4984-03	VL030715.D	o-Xylene	sam	8/30/2017 12:37:49 PM	MMDadoda	8/30/2017 1:19:06 PM	Peak Integrated by Software incorrectly
I4984-03	VL030715.D	Styrene	sam	8/30/2017 12:37:49 PM	MMDadoda	8/30/2017 1:19:06 PM	Peak Integrated by Software incorrectly
I4984-04DL	VL030716.D	2,2,4-Trimethylpentane	sam	8/30/2017 12:36:04 PM	MMDadoda	8/30/2017 1:19:07 PM	Peak Integrated by Software incorrectly
I4984-04DL	VL030716.D	Cyclohexane	sam	8/30/2017 12:36:04 PM	MMDadoda	8/30/2017 1:19:07 PM	Peak Integrated by Software incorrectly
I4984-04DL	VL030716.D	Ethanol	sam	8/30/2017 12:36:04 PM	MMDadoda	8/30/2017 1:19:07 PM	Peak Integrated by Software incorrectly
I4984-04DL	VL030716.D	Methylene Chloride	sam	8/30/2017 12:36:04 PM	MMDadoda	8/30/2017 1:19:07 PM	Peak Integrated by Software incorrectly

I4984-04DL	VL030716.D	Propene	sam	8/30/2017 12:36:04 PM	MMDadoda	8/30/2017 1:19:07 PM	Peak Integrated by Software incorrectly
I4984-06	VL030717.D	1,2,4-Trimethylbenzene	sam	8/30/2017 12:37:53 PM	MMDadoda	8/30/2017 1:19:08 PM	Peak Integrated by Software incorrectly
I4984-06	VL030717.D	1,3,5-Trimethylbenzene	sam	8/30/2017 12:37:53 PM	MMDadoda	8/30/2017 1:19:08 PM	Peak Integrated by Software incorrectly
I4984-06	VL030717.D	4-Ethyltoluene	sam	8/30/2017 12:37:53 PM	MMDadoda	8/30/2017 1:19:08 PM	Peak Integrated by Software incorrectly
I4984-06	VL030717.D	Chloroform	sam	8/30/2017 12:37:53 PM	MMDadoda	8/30/2017 1:19:08 PM	Peak Integrated by Software incorrectly
I4984-06	VL030717.D	Ethyl Benzene	sam	8/30/2017 12:37:53 PM	MMDadoda	8/30/2017 1:19:08 PM	Peak Integrated by Software incorrectly

I4984-06	VL030717.D	m/p-Xylene	sam	8/30/2017 12:37:53 PM	MMDadoda	8/30/2017 1:19:08 PM	Peak Integrated by Software incorrectly
I4984-06	VL030717.D	o-Xylene	sam	8/30/2017 12:37:53 PM	MMDadoda	8/30/2017 1:19:08 PM	Peak Integrated by Software incorrectly
I4984-07	VL030718.D	1,3,5-Trimethylbenzene	sam	8/30/2017 12:36:08 PM	MMDadoda	8/30/2017 1:19:09 PM	Peak Integrated by Software incorrectly
I4984-07	VL030718.D	4-Ethyltoluene	sam	8/30/2017 12:36:08 PM	MMDadoda	8/30/2017 1:19:09 PM	Peak Integrated by Software incorrectly
I4984-07DL	VL030719.D	Ethyl Benzene	sam	8/30/2017 12:37:05 PM	MMDadoda	8/30/2017 1:19:11 PM	Peak Integrated by Software incorrectly
I4984-07DL	VL030719.D	Heptane	sam	8/30/2017 12:37:05 PM	MMDadoda	8/30/2017 1:19:11 PM	Peak Integrated by Software incorrectly

I4984-07DL	VL030719.D	o-Xylene	sam	8/30/2017 12:37:05 PM	MMDadoda	8/30/2017 1:19:11 PM	Peak Integrated by Software incorrectly
I4984-05	VL030720.D	1,1,2-Trichlorotrifluoroethane	sam	8/30/2017 12:37:10 PM	MMDadoda	8/30/2017 1:19:12 PM	Peak Integrated by Software incorrectly
I4984-05	VL030720.D	1,3,5-Trimethylbenzene	sam	8/30/2017 12:37:10 PM	MMDadoda	8/30/2017 1:19:12 PM	Peak Integrated by Software incorrectly
I4984-05	VL030720.D	4-Ethyltoluene	sam	8/30/2017 12:37:10 PM	MMDadoda	8/30/2017 1:19:12 PM	Peak Integrated by Software incorrectly
I4984-05	VL030720.D	Acetone	sam	8/30/2017 12:37:10 PM	MMDadoda	8/30/2017 1:19:12 PM	Peak Integrated by Software incorrectly
I4984-05	VL030720.D	Tetrachloroethene	sam	8/30/2017 12:37:10 PM	MMDadoda	8/30/2017 1:19:12 PM	Peak Integrated by Software incorrectly
I4984-05DUP	VL030721.D	4-Ethyltoluene	sam	8/30/2017 12:37:59 PM	MMDadoda	8/30/2017 1:19:13 PM	Peak Integrated by Software incorrectly
I4984-05DUP	VL030721.D	Acetone	sam	8/30/2017 12:37:59 PM	MMDadoda	8/30/2017 1:19:13 PM	Peak Integrated by Software

				PM		PM	incorrectly
I4984-05DUP	VL030721.D	Methylene Chloride	sam	8/30/2017 12:37:59 PM	MMDadoda	8/30/2017 1:19:13 PM	Peak Integrated by Software incorrectly
I4984-05DUP	VL030721.D	Styrene	sam	8/30/2017 12:37:59 PM	MMDadoda	8/30/2017 1:19:13 PM	Peak Integrated by Software incorrectly
I4984-05DUP	VL030721.D	Tetrachloroethene	sam	8/30/2017 12:37:59 PM	MMDadoda	8/30/2017 1:19:13 PM	Peak Integrated by Software incorrectly
I4984-05DUP	VL030721.D	Trichloroethene	sam	8/30/2017 12:37:59 PM	MMDadoda	8/30/2017 1:19:13 PM	Peak Integrated by Software incorrectly

I4984-05DL	VL030722.D	Benzene	sam	8/30/2017 12:37:15 PM	MMDadoda	8/30/2017 1:19:15 PM	Peak Integrated by Software incorrectly
I4984-05DL	VL030722.D	Ethyl Benzene	sam	8/30/2017 12:37:15 PM	MMDadoda	8/30/2017 1:19:15 PM	Peak Integrated by Software incorrectly
I4984-05DL	VL030722.D	m/p-Xylene	sam	8/30/2017 12:37:15 PM	MMDadoda	8/30/2017 1:19:15 PM	Peak Integrated by Software incorrectly
I4984-05DL	VL030722.D	Styrene	sam	8/30/2017 12:37:15 PM	MMDadoda	8/30/2017 1:19:15 PM	Peak Integrated by Software incorrectly

I4984-01DL	VL030732.D	2,2,4-Trimethylpentane	sam	8/30/2017 12:36:27 PM	MMDadoda	8/30/2017 1:19:27 PM	Peak Integrated by Software incorrectly
I4984-01DL	VL030732.D	Ethanol	sam	8/30/2017 12:36:27 PM	MMDadoda	8/30/2017 1:19:27 PM	Peak Integrated by Software incorrectly
I4984-01DL	VL030732.D	m/p-Xylene	sam	8/30/2017 12:36:27 PM	MMDadoda	8/30/2017 1:19:27 PM	Peak Integrated by Software incorrectly
I4984-01DL	VL030732.D	Tetrachloroethene	sam	8/30/2017 12:36:27 PM	MMDadoda	8/30/2017 1:19:27 PM	Peak Integrated by Software incorrectly
I4984-02DL	VL030733.D	Ethanol	sam	8/30/2017 12:38:31 PM	MMDadoda	8/30/2017 1:19:28 PM	Peak Integrated by Software incorrectly
I4984-02DL	VL030733.D	m/p-Xylene	sam	8/30/2017 12:38:31 PM	MMDadoda	8/30/2017 1:19:28 PM	Peak Integrated by Software incorrectly

I4984-03DL	VL030734.D	2,2,4-Trimethylpentane	sam	8/30/2017 12:38:16 PM	MMDadoda	8/30/2017 1:19:29 PM	Peak Integrated by Software incorrectly
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I4984-03DL	VL030734.D	Acetone	sam	8/30/2017 12:38:16 PM	MMDadoda	8/30/2017 1:19:29 PM	Peak Integrated by Software incorrectly
I4984-03DL	VL030734.D	m/p-Xylene	sam	8/30/2017 12:38:16 PM	MMDadoda	8/30/2017 1:19:29 PM	Peak Integrated by Software incorrectly
I4984-03DL	VL030734.D	o-Xylene	sam	8/30/2017 12:38:16 PM	MMDadoda	8/30/2017 1:19:29 PM	Peak Integrated by Software incorrectly
I4984-03DL	VL030734.D	Styrene	sam	8/30/2017 12:38:16 PM	MMDadoda	8/30/2017 1:19:29 PM	Peak Integrated by Software incorrectly
I4984-04	VL030735.D	2,2,4-Trimethylpentane	sam	8/30/2017 12:36:23 PM	MMDadoda	8/30/2017 1:19:30 PM	Peak Integrated by Software incorrectly
I4984-04	VL030735.D	Carbon Tetrachloride	sam	8/30/2017 12:36:23 PM	MMDadoda	8/30/2017 1:19:30 PM	Peak Integrated by Software incorrectly
I4984-04	VL030735.D	Chlorodifluoromethane	sam	8/30/2017 12:36:23 PM	MMDadoda	8/30/2017 1:19:30 PM	Peak Integrated by Software incorrectly
I4984-04	VL030735.D	Chloromethane	sam	8/30/2017 12:36:23 PM	MMDadoda	8/30/2017 1:19:30 PM	Peak Integrated by Software incorrectly
I4984-04	VL030735.D	m/p-Xylene	sam	8/30/2017 12:36:23 PM	MMDadoda	8/30/2017 1:19:30 PM	Peak Integrated by Software incorrectly
I4984-04	VL030735.D	Methylene Chloride	sam	8/30/2017 12:36:23 PM	MMDadoda	8/30/2017 1:19:30 PM	Peak Integrated by Software incorrectly
I4984-04	VL030735.D	Styrene	sam	8/30/2017 12:36:23 PM	MMDadoda	8/30/2017 1:19:30 PM	Peak Integrated by Software incorrectly
I4984-04	VL030735.D	Tetrachloroethene	sam	8/30/2017 12:36:23 PM	MMDadoda	8/30/2017 1:19:30 PM	Peak Integrated by Software incorrectly

I4984-06DL	VL030736.D	Acetone	sam	8/30/2017 12:36:18 PM	MMDadoda	8/30/2017 1:19:31 PM	Peak Integrated by Software incorrectly
I4984-06DL	VL030736.D	Benzene	sam	8/30/2017 12:36:18 PM	MMDadoda	8/30/2017 1:19:31 PM	Peak Integrated by Software incorrectly
I4984-06DL	VL030736.D	m/p-Xylene	sam	8/30/2017 12:36:18 PM	MMDadoda	8/30/2017 1:19:31 PM	Peak Integrated by Software incorrectly

Sequence	vl083017	Instrument				MSVOA_I	
Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC010	VL030739.D	1,2,4-Trichlorobenzene	sam	9/1/2017 10:05:55 AM	MMDadoda	9/1/2017 10:49:45 AM	Peak Integrated by Software incorrectly
VSTDCCC010	VL030739.D	1,2-Dibromoethane	sam	9/1/2017 10:05:55 AM	MMDadoda	9/1/2017 10:49:45 AM	Peak Integrated by Software incorrectly
VSTDCCC010	VL030739.D	Chlorobenzene-d5	sam	9/1/2017 10:05:55 AM	MMDadoda	9/1/2017 10:49:45 AM	Peak Integrated by Software incorrectly
VSTDCCC010	VL030739.D	m/p-Xylene	sam	9/1/2017 10:05:55 AM	MMDadoda	9/1/2017 10:49:45 AM	Peak Integrated by Software incorrectly
VL0830ABS01	VL030741.D	Chlorobenzene-d5	sam	9/1/2017 10:03:08 AM	MMDadoda	9/1/2017 10:49:51 AM	Peak Integrated by Software incorrectly
VL0830ABS01	VL030741.D	m/p-Xylene	sam	9/1/2017 10:03:08 AM	MMDadoda	9/1/2017 10:49:51 AM	Peak Integrated by Software incorrectly
VL0830ABS01	VL030741.D	Styrene	sam	9/1/2017 10:03:08 AM	MMDadoda	9/1/2017 10:49:51 AM	Peak Integrated by Software incorrectly
I4984-02DL	VL030742.D	2,2,4-Trimethylpentane	sam	9/1/2017 10:03:13 AM	MMDadoda	9/1/2017 10:49:58 AM	Peak Integrated by Software incorrectly

I4984-02DL	VL030742.D	Cyclohexane	sam	9/1/2017 10:03:13 AM	MMDadoda	9/1/2017 10:49:58 AM	Peak Integrated by Software incorrectly
I4984-02DL	VL030742.D	Propene	sam	9/1/2017 10:03:13 AM	MMDadoda	9/1/2017 10:49:58 AM	Peak Integrated by Software incorrectly
I4984-02DL	VL030742.D	Toluene	sam	9/1/2017 10:03:13 AM	MMDadoda	9/1/2017 10:49:58 AM	Peak Integrated by Software incorrectly

I4984-07DL	VL030743.D	Acetone	sam	9/1/2017 10:46:14 AM	MMDadoda	9/1/2017 10:50:02 AM	Peak Integrated by Software incorrectly
I4984-07DL	VL030743.D	Benzene	sam	9/1/2017 10:46:14 AM	MMDadoda	9/1/2017 10:50:02 AM	Peak Integrated by Software incorrectly
I4984-07DL	VL030743.D	Cyclohexane	sam	9/1/2017 10:46:14 AM	MMDadoda	9/1/2017 10:50:02 AM	Peak Integrated by Software incorrectly
I4984-07DL	VL030743.D	Hexane	sam	9/1/2017 10:46:14 AM	MMDadoda	9/1/2017 10:50:02 AM	Peak Integrated by Software incorrectly
I4984-07DL	VL030743.D	Propene	sam	9/1/2017 10:46:14 AM	MMDadoda	9/1/2017 10:50:02 AM	Peak Integrated by Software incorrectly

VL0830ABS02	VL030760.D	Chlorobenzene-d5	sam	9/1/2017 10:04:48 AM	MMDadoda	9/1/2017 10:51:11 AM	Peak Integrated by Software incorrectly
VL0830ABS02	VL030760.D	m/p-Xylene	sam	9/1/2017 10:04:48 AM	MMDadoda	9/1/2017 10:51:11 AM	Peak Integrated by Software incorrectly

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

REVIEWED

Signature By kalpana, Data Reviewer at 11:03 am, Sep 08, 2017

DATA REPORTING QUALIFIERS- ORGANIC

For reporting results, the following "Results Qualifiers" are used:

Value	If the result is a value greater than or equal to the detection limit, report the value
U	Indicates the compound was analyzed for but was not detected. Report the minimum detection limit for the sample with the U, i.e. "10 U". This is not necessarily the instrument detection limit attainable for this particular sample based on any concentration or dilution that may have been required.
ND	Indicates the analyte was analyzed for, but not detected
J	Indicates an estimated value. This flag is used: (1) When estimating a concentration for a tentatively identified compound (library search hits, where a 1:1 response is assumed.) (2) When the mass spectral data indicated the identification, however the result was less than the specified detection limit greater than zero. If the detection limit was 10ug/L and a concentration of 3 ug/L was calculated report as 3 J. This flag is used when similar situation arise on any organic parameter i.e. Pest, PCB and others.
B	Indicates the analyte was found in the blank as well as the sample report as "12 B".
E	Indicates the analyte 's concentration exceeds the calibrated range of the instrument for that specific analysis.
D	This flag identifies all compounds identified in an analysis at a secondary dilution factor.
P	This flag is used for Pesticide/PCB target analyte when there is >25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on Form 1 and flagged with a "P".
N	This flag indicates presumptive evidence of a compound. This is only used for tentatively identified compounds (TICs), where the identification is based on a mass spectral library search. It applies to all TIC results. For generic characterization of a TIC, such as chlorinated hydrocarbon, the flag is not used.
A	This flag indicates that a Tentatively Identified Compound is a suspected aldol-condensation product.
Q	Indicates the LCS did not meet the control limits requirements

APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: 14984

Completed

For thorough review, the report must have the following:

GENERAL:

Are all original paperwork present (chain of custody, record of communication,airbill, sample management lab chronicle, login page)

✓

Check chain-of-custody for proper relinquish/return of samples

✓

Is the chain of custody signed and complete

✓

Check internal chain-of-custody for proper relinquish/return of samples /sample extracts

✓

Collect information for each project id from server. Were all requirements followed

✓

COVER PAGE:

Do numbers of samples correspond to the number of samples in the Chain of Custody on login page

✓

Do lab numbers and client Ids on cover page agree with the Chain of Custody

✓

CHAIN OF CUSTODY:

Do requested analyses on Chain of Custody agree with form I results

✓

Do requested analyses on Chain of Custody agree with the log-in page

✓

Were the correct method log-in for analysis according to the Analytical Request and Chain of Castody

✓

Were the samples received within hold time

✓

Were any problems found with the samples at arrival recorded in the Sample Management Laboratory Chronicle

✓

ANALYTICAL:

Was method requirement followed?

✓

Was client requirement followed?

✓

Does the case narrative summarize all QC failure?

✓

All runlogs and manual integration are reviewed for requirements

✓

All manual calculations and /or hand notations verified

✓

1st Level QA Review Signature: ASHA PATEL

Date: 09/05/2017

2nd Level QA Review Signature:

REVIEWED

By kalpana, Data Reviewer at 11:03 am, Sep 08, 2017

Date: _____



284 Sheffield Street, Mountainside, New Jersey - 07092

Phone: (908) 789 8900 Fax: (908) 789 8922

LAB CHRONICLE

OrderID: I4984	OrderDate: 8/25/2017 11:54:00 AM
Client: Chazen Companies	Project: Air 81323.07 Karta
Contact: Will Olsen	Location: Air Lab

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
I4984-01	SV-09	Air	TO-15	TO-15	08/23/17		08/28/17	08/25/17
I4984-01DL	SV-09DL	Air	TO-15	TO-15	08/23/17		08/29/17	08/25/17
I4984-02	SV-10	Air	TO-15	TO-15	08/23/17		08/28/17	08/25/17
I4984-02DL	SV-10DL	Air	TO-15	TO-15	08/23/17		08/30/17	08/25/17
I4984-03	SV-11	Air	TO-15	TO-15	08/23/17		08/28/17	08/25/17
I4984-03DL	SV-11DL	Air	TO-15	TO-15	08/23/17		08/29/17	08/25/17
I4984-04	SV-12	Air	TO-15	TO-15	08/23/17		08/29/17	08/25/17
I4984-04DL	SV-12DL	Air	TO-15	TO-15	08/23/17		08/28/17	08/25/17
I4984-05	OUTDOOR-AIR	Air	TO-15	TO-15	08/23/17		08/28/17	08/25/17
I4984-05DL	OUTDOOR-AIRDL	Air	TO-15	TO-15	08/23/17		08/28/17	08/25/17
I4984-06	SV-13	Air	TO-15	TO-15	08/23/17		08/28/17	08/25/17
I4984-06DL	SV-13DL	Air	TO-15	TO-15	08/23/17		08/29/17	08/25/17



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LAB CHRONICLE

I4984-07	SV-14	Air			08/23/17		08/25/17
			TO-15	TO-15		08/28/17	
I4984-07DL	SV-14DL	Air			08/23/17		08/25/17
			TO-15	TO-15		08/30/17	

Hit Summary Sheet SW-846

SDG No.: I4984

Client: Chazen Companies

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	LOD	RDL	Units
Client ID: SV-09									
I4984-01	SV-09	Air	Tetrahydrofuran	855.00	E	0.88	2.95	14.8	ug/m3
I4984-01	SV-09	Air	tert-Butyl alcohol	33.00		1.3	3.03	15.2	ug/m3
I4984-01	SV-09	Air	Heptane	18.40	J	0.98	4.1	20.5	ug/m3
I4984-01	SV-09	Air	Acetone	150.00		0.29	2.38	11.9	ug/m3
I4984-01	SV-09	Air	Carbon Disulfide	8.41	J	0.75	3.11	15.6	ug/m3
I4984-01	SV-09	Air	Methylene Chloride	29.20	B	0.59	3.47	17.4	ug/m3
I4984-01	SV-09	Air	Cyclohexane	21.70		0.83	3.44	17.2	ug/m3
I4984-01	SV-09	Air	2-Butanone	324.00		0.65	2.95	14.8	ug/m3
I4984-01	SV-09	Air	2,2,4-Trimethylpentane	46.20		1.03	4.67	23.4	ug/m3
I4984-01	SV-09	Air	Benzene	33.20		0.54	3.19	16.0	ug/m3
I4984-01	SV-09	Air	Toluene	142.00		0.45	3.77	18.8	ug/m3
I4984-01	SV-09	Air	Tetrachloroethene	44.80		1.15	2.03	2.03	ug/m3
I4984-01	SV-09	Air	Ethyl Benzene	19.60	J	0.74	4.34	21.7	ug/m3
I4984-01	SV-09	Air	m/p-Xylene	58.60		1.35	8.69	43.4	ug/m3
I4984-01	SV-09	Air	o-Xylene	23.00		0.74	4.34	21.7	ug/m3
I4984-01	SV-09	Air	Styrene	15.30	J	0.51	4.26	21.3	ug/m3
I4984-01	SV-09	Air	1,3,5-Trimethylbenzene	5.41	J	1.23	4.92	24.6	ug/m3
I4984-01	SV-09	Air	1,2,4-Trimethylbenzene	16.20	J	1.23	4.92	24.6	ug/m3
I4984-01	SV-09	Air	Hexane	101.00		0.53	3.52	17.6	ug/m3
Total Voc :				1945.02					
Total Concentration:				1945.02					
Client ID: SV-09DL									
I4984-01DL	SV-09DL	Air	Tetrahydrofuran	914.00	D	3.54	11.8	59.0	ug/m3
I4984-01DL	SV-09DL	Air	Acetone	233.00	D	1.14	9.5	47.5	ug/m3
I4984-01DL	SV-09DL	Air	2-Butanone	324.00	D	2.57	11.8	59.0	ug/m3
I4984-01DL	SV-09DL	Air	2,2,4-Trimethylpentane	54.20	JD	4.06	18.7	93.4	ug/m3
I4984-01DL	SV-09DL	Air	Benzene	30.70	JD	2.14	12.8	63.9	ug/m3
I4984-01DL	SV-09DL	Air	Toluene	95.00	D	1.81	15.1	75.4	ug/m3
I4984-01DL	SV-09DL	Air	Tetrachloroethene	59.70	D	4.54	8.14	8.14	ug/m3
I4984-01DL	SV-09DL	Air	m/p-Xylene	48.60	JD	5.21	34.8	173	ug/m3
I4984-01DL	SV-09DL	Air	Hexane	109.00	D	2.15	14.1	70.5	ug/m3
Total Voc :				1868.2					
Total Concentration:				1868.2					
Client ID: SV-10									
I4984-02	SV-10	Air	Dichlorodifluoromethane	6.92	J	1.98	4.94	24.7	ug/m3
I4984-02	SV-10	Air	Tetrahydrofuran	1,710.00	E	0.88	2.95	14.8	ug/m3
I4984-02	SV-10	Air	Trichlorofluoromethane	114.00		1.35	5.62	28.1	ug/m3

Hit Summary Sheet SW-846

SDG No.: I4984
Client: Chazen Companies

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	LOD	RDL	Units
I4984-02	SV-10	Air	Heptane	34.80		0.98	4.1	20.5	ug/m3
I4984-02	SV-10	Air	Acetone	332.00		0.29	2.38	11.9	ug/m3
I4984-02	SV-10	Air	Methylene Chloride	14.60	JB	0.59	3.47	17.4	ug/m3
I4984-02	SV-10	Air	Cyclohexane	46.80		0.83	3.44	17.2	ug/m3
I4984-02	SV-10	Air	2-Butanone	796.00	E	0.65	2.95	14.8	ug/m3
I4984-02	SV-10	Air	2,2,4-Trimethylpentane	141.00		1.03	4.67	23.4	ug/m3
I4984-02	SV-10	Air	Benzene	35.10		0.54	3.19	16.0	ug/m3
I4984-02	SV-10	Air	Toluene	160.00		0.45	3.77	18.8	ug/m3
I4984-02	SV-10	Air	Ethyl Benzene	17.40	J	0.74	4.34	21.7	ug/m3
I4984-02	SV-10	Air	m/p-Xylene	44.70		1.35	8.69	43.4	ug/m3
I4984-02	SV-10	Air	o-Xylene	14.30	J	0.74	4.34	21.7	ug/m3
I4984-02	SV-10	Air	Styrene	23.00		0.51	4.26	21.3	ug/m3
I4984-02	SV-10	Air	Hexane	125.00		0.53	3.52	17.6	ug/m3
			Total Voc :	3615.62					
			Total Concentration:	3615.62					
Client ID:	SV-10DL								
I4984-02DL	SV-10DL	Air	Tetrahydrofuran	1,533.00	D	8.85	29.5	147	ug/m3
I4984-02DL	SV-10DL	Air	Trichlorofluoromethane	112.00	JD	13.5	56.2	280	ug/m3
I4984-02DL	SV-10DL	Air	Acetone	617.00	D	2.85	23.8	118	ug/m3
I4984-02DL	SV-10DL	Air	2-Butanone	678.00	D	6.49	29.5	147	ug/m3
I4984-02DL	SV-10DL	Air	Toluene	101.00	JD	4.52	37.7	188	ug/m3
			Total Voc :	3041					
			Total Concentration:	3041					
Client ID:	SV-11								
I4984-03	SV-11	Air	Dichlorodifluoromethane	8.41	J	1.98	4.94	24.7	ug/m3
I4984-03	SV-11	Air	Tetrahydrofuran	501.00	E	0.88	2.95	14.8	ug/m3
I4984-03	SV-11	Air	Trichlorofluoromethane	54.00		1.35	5.62	28.1	ug/m3
I4984-03	SV-11	Air	Heptane	31.20		0.98	4.1	20.5	ug/m3
I4984-03	SV-11	Air	Acetone	107.00		0.29	2.38	11.9	ug/m3
I4984-03	SV-11	Air	Carbon Disulfide	65.40		0.75	3.11	15.6	ug/m3
I4984-03	SV-11	Air	Methylene Chloride	14.90	JB	0.59	3.47	17.4	ug/m3
I4984-03	SV-11	Air	Cyclohexane	34.40		0.83	3.44	17.2	ug/m3
I4984-03	SV-11	Air	2-Butanone	153.00		0.65	2.95	14.8	ug/m3
I4984-03	SV-11	Air	Chloroform	7.33	J	0.73	4.88	24.4	ug/m3
I4984-03	SV-11	Air	2,2,4-Trimethylpentane	58.80		1.03	4.67	23.4	ug/m3
I4984-03	SV-11	Air	Benzene	30.00		0.54	3.19	16.0	ug/m3
I4984-03	SV-11	Air	Toluene	157.00		0.45	3.77	18.8	ug/m3
I4984-03	SV-11	Air	Ethyl Benzene	26.10		0.74	4.34	21.7	ug/m3

Hit Summary Sheet SW-846

SDG No.: I4984
Client: Chazen Companies

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	LOD	RDL	Units
I4984-03	SV-11	Air	m/p-Xylene	78.60		1.35	8.69	43.4	ug/m3
I4984-03	SV-11	Air	o-Xylene	28.20		0.74	4.34	21.7	ug/m3
I4984-03	SV-11	Air	Styrene	27.20		0.51	4.26	21.3	ug/m3
I4984-03	SV-11	Air	1,2,4-Trimethylbenzene	14.30	J	1.23	4.92	24.6	ug/m3
I4984-03	SV-11	Air	4-Ethyltoluene	6.39	J	0.74	4.92	24.6	ug/m3
I4984-03	SV-11	Air	Hexane	97.60		0.53	3.52	17.6	ug/m3
Total Voc :				1500.83					
Total Concentration:				1500.83					
Client ID:	SV-11DL								
I4984-03DL	SV-11DL	Air	Tetrahydrofuran	530.00	D	1.77	5.9	29.5	ug/m3
I4984-03DL	SV-11DL	Air	Trichlorofluoromethane	62.90	D	2.7	11.2	56.2	ug/m3
I4984-03DL	SV-11DL	Air	Heptane	33.60	JD	1.97	8.2	41.0	ug/m3
I4984-03DL	SV-11DL	Air	Acetone	132.00	D	0.57	4.75	23.8	ug/m3
I4984-03DL	SV-11DL	Air	Carbon Disulfide	70.40	D	1.49	6.23	31.1	ug/m3
I4984-03DL	SV-11DL	Air	Cyclohexane	37.20	D	1.65	6.88	34.4	ug/m3
I4984-03DL	SV-11DL	Air	2-Butanone	171.00	D	1.27	5.9	29.5	ug/m3
I4984-03DL	SV-11DL	Air	2,2,4-Trimethylpentane	65.40	D	2.01	9.34	46.7	ug/m3
I4984-03DL	SV-11DL	Air	Benzene	31.30	JD	1.09	6.39	32.0	ug/m3
I4984-03DL	SV-11DL	Air	Toluene	174.00	D	0.9	7.54	37.7	ug/m3
I4984-03DL	SV-11DL	Air	Ethyl Benzene	24.30	JD	1.48	8.69	43.4	ug/m3
I4984-03DL	SV-11DL	Air	m/p-Xylene	80.80	JD	2.65	17.4	86.9	ug/m3
I4984-03DL	SV-11DL	Air	o-Xylene	27.80	JD	1.48	8.69	43.4	ug/m3
I4984-03DL	SV-11DL	Air	Styrene	25.60	JD	1.02	8.52	42.6	ug/m3
I4984-03DL	SV-11DL	Air	Hexane	107.00	D	1.09	7.05	35.2	ug/m3
Total Voc :				1573.3					
Total Concentration:				1573.3					
Client ID:	SV-12								
I4984-04	SV-12	Air	Dichlorodifluoromethane	0.69	J	0.2	0.49	2.47	ug/m3
I4984-04	SV-12	Air	Chloromethane	0.93	J	0.04	0.21	1.03	ug/m3
I4984-04	SV-12	Air	Tetrahydrofuran	55.20	E	0.09	0.29	1.47	ug/m3
I4984-04	SV-12	Air	Trichlorofluoromethane	1.12	J	0.11	0.56	2.81	ug/m3
I4984-04	SV-12	Air	Heptane	5.33		0.08	0.41	2.05	ug/m3
I4984-04	SV-12	Air	Acetone	18.50		0.02	0.24	1.19	ug/m3
I4984-04	SV-12	Air	Methylene Chloride	3.34	B	0.07	0.35	1.74	ug/m3
I4984-04	SV-12	Air	Cyclohexane	7.92		0.07	0.34	1.72	ug/m3
I4984-04	SV-12	Air	2-Butanone	28.90		0.06	0.29	1.47	ug/m3
I4984-04	SV-12	Air	Carbon Tetrachloride	0.44		0.13	0.19	0.19	ug/m3
I4984-04	SV-12	Air	2,2,4-Trimethylpentane	8.87		0.09	0.47	2.34	ug/m3

Hit Summary Sheet SW-846

SDG No.: I4984
Client: Chazen Companies

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	LOD	RDL	Units
I4984-04	SV-12	Air	Benzene	6.71		0.06	0.32	1.6	ug/m3
I4984-04	SV-12	Air	Toluene	22.60		0.04	0.38	1.88	ug/m3
I4984-04	SV-12	Air	Tetrachloroethene	0.41		0.14	0.2	0.2	ug/m3
I4984-04	SV-12	Air	Ethyl Benzene	2.48		0.09	0.43	2.17	ug/m3
I4984-04	SV-12	Air	m/p-Xylene	6.08		0.13	0.87	4.34	ug/m3
I4984-04	SV-12	Air	o-Xylene	1.43	J	0.09	0.43	2.17	ug/m3
I4984-04	SV-12	Air	Styrene	4.17		0.04	0.43	2.13	ug/m3
I4984-04	SV-12	Air	Hexane	26.40		0.07	0.35	1.76	ug/m3
Total Voc :				201.52					
Total Concentration:				201.52					
Client ID:	SV-12DL								
I4984-04DL	SV-12DL	Air	Tetrahydrofuran	47.50	D	0.88	2.95	14.8	ug/m3
I4984-04DL	SV-12DL	Air	Cyclohexane	7.23	JD	0.83	3.44	17.2	ug/m3
I4984-04DL	SV-12DL	Air	2-Butanone	26.00	D	0.65	2.95	14.8	ug/m3
I4984-04DL	SV-12DL	Air	2,2,4-Trimethylpentane	8.87	JD	1.03	4.67	23.4	ug/m3
I4984-04DL	SV-12DL	Air	Benzene	5.43	JD	0.54	3.19	16.0	ug/m3
I4984-04DL	SV-12DL	Air	Toluene	17.70	JD	0.45	3.77	18.8	ug/m3
I4984-04DL	SV-12DL	Air	Hexane	25.00	D	0.53	3.52	17.6	ug/m3
Total Voc :				137.73					
Total Concentration:				137.73					
Client ID:	OUTDOOR-AIR								
I4984-05	OUTDOOR-AIR	Air	Chloromethane	0.91	J	0.04	0.21	1.03	ug/m3
I4984-05	OUTDOOR-AIR	Air	Tetrahydrofuran	27.70		0.09	0.29	1.47	ug/m3
I4984-05	OUTDOOR-AIR	Air	Trichlorofluoromethane	1.29	J	0.11	0.56	2.81	ug/m3
I4984-05	OUTDOOR-AIR	Air	Heptane	18.80		0.08	0.41	2.05	ug/m3
I4984-05	OUTDOOR-AIR	Air	Acetone	9.98		0.02	0.24	1.19	ug/m3
I4984-05	OUTDOOR-AIR	Air	Methylene Chloride	3.82	B	0.07	0.35	1.74	ug/m3
I4984-05	OUTDOOR-AIR	Air	Cyclohexane	7.57		0.07	0.34	1.72	ug/m3
I4984-05	OUTDOOR-AIR	Air	2-Butanone	25.70		0.06	0.29	1.47	ug/m3
I4984-05	OUTDOOR-AIR	Air	2,2,4-Trimethylpentane	20.10		0.09	0.47	2.34	ug/m3
I4984-05	OUTDOOR-AIR	Air	Benzene	15.30		0.06	0.32	1.6	ug/m3
I4984-05	OUTDOOR-AIR	Air	Trichloroethene	1.13		0.11	0.16	0.16	ug/m3
I4984-05	OUTDOOR-AIR	Air	Toluene	82.20	E	0.04	0.38	1.88	ug/m3
I4984-05	OUTDOOR-AIR	Air	Tetrachloroethene	2.31		0.14	0.2	0.2	ug/m3
I4984-05	OUTDOOR-AIR	Air	Ethyl Benzene	6.52		0.09	0.43	2.17	ug/m3
I4984-05	OUTDOOR-AIR	Air	m/p-Xylene	7.82		0.13	0.87	4.34	ug/m3
I4984-05	OUTDOOR-AIR	Air	o-Xylene	2.78		0.09	0.43	2.17	ug/m3
I4984-05	OUTDOOR-AIR	Air	Styrene	11.10		0.04	0.43	2.13	ug/m3

Hit Summary Sheet SW-846

SDG No.: I4984
Client: Chazen Companies

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	LOD	RDL	Units
I4984-05	OUTDOOR-AIR	Air	1,3,5-Trimethylbenzene	0.88	J	0.1	0.49	2.46	ug/m3
I4984-05	OUTDOOR-AIR	Air	1,2,4-Trimethylbenzene	2.02	J	0.1	0.49	2.46	ug/m3
I4984-05	OUTDOOR-AIR	Air	4-Ethyltoluene	0.59	J	0.1	0.49	2.46	ug/m3
I4984-05	OUTDOOR-AIR	Air	Hexane	77.90	E	0.07	0.35	1.76	ug/m3
Total Voc :				326.42					
Total Concentration:				326.42					
Client ID:	OUTDOOR-AIRDL								
I4984-05DL	OUTDOOR-AIRDL	Air	Tetrahydrofuran	22.40	D	0.88	2.95	14.8	ug/m3
I4984-05DL	OUTDOOR-AIRDL	Air	Heptane	12.70	JD	0.98	4.1	20.5	ug/m3
I4984-05DL	OUTDOOR-AIRDL	Air	2-Butanone	21.20	D	0.65	2.95	14.8	ug/m3
I4984-05DL	OUTDOOR-AIRDL	Air	2,2,4-Trimethylpentane	21.00	JD	1.03	4.67	23.4	ug/m3
I4984-05DL	OUTDOOR-AIRDL	Air	Benzene	12.50	JD	0.54	3.19	16.0	ug/m3
I4984-05DL	OUTDOOR-AIRDL	Air	Toluene	72.70	D	0.45	3.77	18.8	ug/m3
I4984-05DL	OUTDOOR-AIRDL	Air	Ethyl Benzene	4.78	JD	0.74	4.34	21.7	ug/m3
I4984-05DL	OUTDOOR-AIRDL	Air	m/p-Xylene	5.65	JD	1.35	8.69	43.4	ug/m3
I4984-05DL	OUTDOOR-AIRDL	Air	Styrene	7.66	JD	0.51	4.26	21.3	ug/m3
I4984-05DL	OUTDOOR-AIRDL	Air	Hexane	69.80	D	0.53	3.52	17.6	ug/m3
Total Voc :				250.39					
Total Concentration:				250.39					
Client ID:	SV-13								
I4984-06	SV-13	Air	Dichlorodifluoromethane	9.40	J	1.98	4.94	24.7	ug/m3
I4984-06	SV-13	Air	Tetrahydrofuran	943.00	E	0.88	2.95	14.8	ug/m3
I4984-06	SV-13	Air	Trichlorofluoromethane	81.50		1.35	5.62	28.1	ug/m3
I4984-06	SV-13	Air	Dichlorotetrafluoroethane	25.20	J	1.19	6.99	35.0	ug/m3
I4984-06	SV-13	Air	tert-Butyl alcohol	39.40		1.3	3.03	15.2	ug/m3
I4984-06	SV-13	Air	Heptane	29.10		0.98	4.1	20.5	ug/m3
I4984-06	SV-13	Air	Acetone	237.00		0.29	2.38	11.9	ug/m3
I4984-06	SV-13	Air	Carbon Disulfide	27.70		0.75	3.11	15.6	ug/m3
I4984-06	SV-13	Air	Methylene Chloride	17.40	B	0.59	3.47	17.4	ug/m3
I4984-06	SV-13	Air	Cyclohexane	31.70		0.83	3.44	17.2	ug/m3
I4984-06	SV-13	Air	2-Butanone	293.00		0.65	2.95	14.8	ug/m3
I4984-06	SV-13	Air	Chloroform	11.20	J	0.73	4.88	24.4	ug/m3
I4984-06	SV-13	Air	2,2,4-Trimethylpentane	71.50		1.03	4.67	23.4	ug/m3
I4984-06	SV-13	Air	Benzene	35.10		0.54	3.19	16.0	ug/m3
I4984-06	SV-13	Air	Toluene	157.00		0.45	3.77	18.8	ug/m3
I4984-06	SV-13	Air	Ethyl Benzene	20.80	J	0.74	4.34	21.7	ug/m3
I4984-06	SV-13	Air	m/p-Xylene	63.00		1.35	8.69	43.4	ug/m3
I4984-06	SV-13	Air	o-Xylene	23.50		0.74	4.34	21.7	ug/m3

Hit Summary Sheet SW-846

SDG No.: I4984
Client: Chazen Companies

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	LOD	RDL	Units
I4984-06	SV-13	Air	1,2,4-Trimethylbenzene	13.80	J	1.23	4.92	24.6	ug/m3
I4984-06	SV-13	Air	4-Ethyltoluene	5.41	J	0.74	4.92	24.6	ug/m3
I4984-06	SV-13	Air	Hexane	110.00		0.53	3.52	17.6	ug/m3
Total Voc :				2245.71					
Total Concentration:				2245.71					
Client ID:	SV-13DL								
I4984-06DL	SV-13DL	Air	Tetrahydrofuran	1,061.00	D	3.54	11.8	59.0	ug/m3
I4984-06DL	SV-13DL	Air	Trichlorofluoromethane	94.40	JD	5.34	22.5	112	ug/m3
I4984-06DL	SV-13DL	Air	Acetone	237.00	D	1.14	9.5	47.5	ug/m3
I4984-06DL	SV-13DL	Air	2-Butanone	324.00	D	2.57	11.8	59.0	ug/m3
I4984-06DL	SV-13DL	Air	2,2,4-Trimethylpentane	72.90	JD	4.06	18.7	93.4	ug/m3
I4984-06DL	SV-13DL	Air	Benzene	35.80	JD	2.14	12.8	63.9	ug/m3
I4984-06DL	SV-13DL	Air	Toluene	161.00	D	1.81	15.1	75.4	ug/m3
I4984-06DL	SV-13DL	Air	m/p-Xylene	53.90	JD	5.21	34.8	173	ug/m3
I4984-06DL	SV-13DL	Air	Hexane	126.00	D	2.15	14.1	70.5	ug/m3
Total Voc :				2166					
Total Concentration:				2166					
Client ID:	SV-14								
I4984-07	SV-14	Air	Tetrahydrofuran	1,268.00	E	0.88	2.95	14.8	ug/m3
I4984-07	SV-14	Air	Trichlorofluoromethane	24.20	J	1.35	5.62	28.1	ug/m3
I4984-07	SV-14	Air	Heptane	47.10		0.98	4.1	20.5	ug/m3
I4984-07	SV-14	Air	Acetone	144.00		0.29	2.38	11.9	ug/m3
I4984-07	SV-14	Air	Methylene Chloride	16.70	JB	0.59	3.47	17.4	ug/m3
I4984-07	SV-14	Air	Cyclohexane	57.10		0.83	3.44	17.2	ug/m3
I4984-07	SV-14	Air	2-Butanone	383.00		0.65	2.95	14.8	ug/m3
I4984-07	SV-14	Air	2,2,4-Trimethylpentane	117.00		1.03	4.67	23.4	ug/m3
I4984-07	SV-14	Air	Benzene	53.00		0.54	3.19	16.0	ug/m3
I4984-07	SV-14	Air	Toluene	211.00		0.45	3.77	18.8	ug/m3
I4984-07	SV-14	Air	Ethyl Benzene	20.80	J	0.74	4.34	21.7	ug/m3
I4984-07	SV-14	Air	m/p-Xylene	63.00		1.35	8.69	43.4	ug/m3
I4984-07	SV-14	Air	o-Xylene	23.50		0.74	4.34	21.7	ug/m3
I4984-07	SV-14	Air	1,2,4-Trimethylbenzene	13.30	J	1.23	4.92	24.6	ug/m3
I4984-07	SV-14	Air	4-Ethyltoluene	4.92	J	0.74	4.92	24.6	ug/m3
I4984-07	SV-14	Air	Hexane	181.00		0.53	3.52	17.6	ug/m3
Total Voc :				2627.62					
Total Concentration:				2627.62					
Client ID:	SV-14DL								
I4984-07DL	SV-14DL	Air	Tetrahydrofuran	1,179.00	D	8.85	29.5	147	ug/m3
I4984-07DL	SV-14DL	Air	Acetone	237.00	D	2.85	23.8	118	ug/m3

Hit Summary Sheet
SW-846

SDG No.: I4984
Client: Chazen Companies

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	LOD	RDL	Units
I4984-07DL	SV-14DL	Air	2-Butanone	353.00	D	6.49	29.5	147	ug/m3
I4984-07DL	SV-14DL	Air	Toluene	143.00	JD	4.52	37.7	188	ug/m3
Total Voc :				1912					
Total Concentration:				1912					

Project : Air 81323.07 Karta

Sampling Date : 08/23/17

Field Id Number : SV-09

Analysis Date : 08/28/17

Laboratory Id Number : I4984-01

Target Analyts : Air Results

Chemical	Cas Number	Molecular Weight	Insert Results in PPBV	Qualifier	Generate Results in ug/m3	QAS Decision	Foot Notes
Dichlorodifluoromethane	75-71-8	120.9	5	U	24.7		
Chloromethane	74-87-3	50.49	5	U	10.3		
Vinyl Chloride	75-01-4	62.5	0.3	U	0.77		
Bromomethane	74-83-9	94.94	5	U	19.4		
Chloroethane	75-00-3	64.52	5	U	13.2		
Tetrahydrofuran	109-99-9	72.11	290	E	855		
Trichlorofluoromethane	75-69-4	137.4	5	U	28.1		
Dichlorotetrafluoroethane	76-14-2	170.9	5	U	35.0		
1,1,2-Trichlorotrifluoroethane	76-13-1	187.4	5	U	38.3		
Bromoethene	593-60-2	106.9	5	U	21.9		
tert-Butyl alcohol	75-65-0	74.12	10.9		33.0		
Heptane	142-82-5	100.2	4.5	J	18.4		
1,1-Dichloroethene	75-35-4	96.94	5	U	19.8		
Acetone	67-64-1	58.08	63.3		150		
Carbon Disulfide	75-15-0	76.14	2.7	J	8.41		
Methyl tert-Butyl Ether	1634-04-4	88.15	5	U	18.0		
Methylene Chloride	75-09-2	84.94	8.4		29.2		
trans-1,2-Dichloroethene	156-60-5	96.94	5	U	19.8		
1,1-Dichloroethane	75-34-3	98.96	5	U	20.2		
Cyclohexane	110-82-7	84.16	6.3		21.7		
2-Butanone	78-93-3	72.11	110		324		
Carbon Tetrachloride	56-23-5	153.8	0.3	U	1.89		
cis-1,2-Dichloroethene	156-59-2	96.94	5	U	19.8		
Chloroform	67-66-3	119.4	5	U	24.4		
1,1,1-Trichloroethane	71-55-6	133.4	0.3	U	1.64		
2,2,4-Trimethylpentane	540-84-1	114.2	9.9		46.2		
Benzene	71-43-2	78.11	10.4		33.2		
1,2-Dichloroethane	107-06-2	98.96	5	U	20.2		
Trichloroethene	79-01-6	131.4	0.3	U	1.61		
1,2-Dichloropropane	78-87-5	113	5	U	23.1		
Bromodichloromethane	75-27-4	163.8	5	U	33.5		
4-Methyl-2-Pentanone	108-10-1	100.2	5	U	20.5		
Toluene	108-88-3	92.14	37.9		142		
t-1,3-Dichloropropene	10061-02-6	111	5	U	22.7		
cis-1,3-Dichloropropene	10061-01-5	111	5	U	22.7		
1,1,2-Trichloroethane	79-00-5	133.4	5	U	27.3		

Project : Air 81323.07 Karta

Sampling Date : 08/23/17

Field Id Number : SV-09

Analysis Date : 08/28/17

Laboratory Id Number : I4984-01

Target Analyts : Air Results

Dibromochloromethane	124-48-1	208.3	5	U	42.6		
1,2-Dibromoethane	106-93-4	187.9	5	U	38.4		
Tetrachloroethene	127-18-4	165.8	6.6		44.8		
Chlorobenzene	108-90-7	112.6	5	U	23.0		
Ethyl Benzene	100-41-4	106.2	4.5	J	19.6		
m/p-Xylene	179601-23-1	106.2	13.5		58.6		
o-Xylene	95-47-6	106.2	5.3		23.0		
Styrene	100-42-5	104.1	3.6	J	15.3		
Bromoform	75-25-2	252.8	5	U	51.7		
1,1,2,2-Tetrachloroethane	79-34-5	167.9	5	U	34.3		
2-Chlorotoluene	95-49-8	126.6	5	U	25.9		
1,3,5-Trimethylbenzene	108-67-8	120.2	1.1	J	5.41		
1,2,4-Trimethylbenzene	95-63-6	120.2	3.3	J	16.2		
1,3-Dichlorobenzene	541-73-1	147	5	U	30.1		
1,4-Dichlorobenzene	106-46-7	147	5	U	30.1		
1,2-Dichlorobenzene	95-50-1	147	5	U	30.1		
1,2,4-Trichlorobenzene	120-82-1	181.5	5	U	37.1		
Hexachloro-1,3-Butadiene	87-68-3	260.8	5	U	53.3		
Naphthalene	91-20-3	128.17	5	U	26.2		
1,3-Butadiene	106-99-0	54.09	5	U	11.1		
4-Ethyltoluene	622-96-8	120.2	5	U	24.6		
Hexane	110-54-3	86.17	28.7		101		
Allyl Chloride	107-05-1	76.53	5	U	15.6		
1,4-Dioxane	123-91-1	88.12	5	U	18.0		
Methyl Methacrylate	80-62-6	100.117	5	U	20.5		

Project : Air 81323.07 Karta

Sampling Date : 08/23/17

Field Id Number : SV-09DL

Analysis Date : 08/29/17

Laboratory Id Number : I4984-01DL

Target Analyts : Air Results

Chemical	Cas Number	Molecular Weight	Insert Results in PPBV	Qualifier	Generate Results in ug/m3	QAS Decision	Foot Notes
Dichlorodifluoromethane	75-71-8	120.9	20	UD	98.9		
Chloromethane	74-87-3	50.49	20	UD	41.3		
Vinyl Chloride	75-01-4	62.5	1.2	UD	3.07		
Bromomethane	74-83-9	94.94	20	UD	77.7		
Chloroethane	75-00-3	64.52	20	UD	52.8		
Tetrahydrofuran	109-99-9	72.11	310	D	914		
Trichlorofluoromethane	75-69-4	137.4	20	UD	112		
Dichlorotetrafluoroethane	76-14-2	170.9	20	UD	139		
1,1,2-Trichlorotrifluoroethane	76-13-1	187.4	20	UD	153		
Bromoethene	593-60-2	106.9	20	UD	87.4		
tert-Butyl alcohol	75-65-0	74.12	20	UD	60.6		
Heptane	142-82-5	100.2	20	UD	82.0		
1,1-Dichloroethene	75-35-4	96.94	20	UD	79.3		
Acetone	67-64-1	58.08	98.4	D	233		
Carbon Disulfide	75-15-0	76.14	20	UD	62.3		
Methyl tert-Butyl Ether	1634-04-4	88.15	20	UD	72.1		
Methylene Chloride	75-09-2	84.94	20	UD	69.5		
trans-1,2-Dichloroethene	156-60-5	96.94	20	UD	79.3		
1,1-Dichloroethane	75-34-3	98.96	20	UD	81.0		
Cyclohexane	110-82-7	84.16	20	UD	68.8		
2-Butanone	78-93-3	72.11	110	D	324		
Carbon Tetrachloride	56-23-5	153.8	1.2	UD	7.55		
cis-1,2-Dichloroethene	156-59-2	96.94	20	UD	79.3		
Chloroform	67-66-3	119.4	20	UD	97.7		
1,1,1-Trichloroethane	71-55-6	133.4	1.2	UD	6.55		
2,2,4-Trimethylpentane	540-84-1	114.2	11.6	JD	54.2		
Benzene	71-43-2	78.11	9.6	JD	30.7		
1,2-Dichloroethane	107-06-2	98.96	20	UD	81.0		
Trichloroethene	79-01-6	131.4	1.2	UD	6.45		
1,2-Dichloropropane	78-87-5	113	20	UD	92.4		
Bromodichloromethane	75-27-4	163.8	20	UD	133		
4-Methyl-2-Pentanone	108-10-1	100.2	20	UD	82.0		
Toluene	108-88-3	92.14	25.2	D	95.0		
t-1,3-Dichloropropene	10061-02-6	111	20	UD	90.8		
cis-1,3-Dichloropropene	10061-01-5	111	20	UD	90.8		
1,1,2-Trichloroethane	79-00-5	133.4	20	UD	109		

Project : Air 81323.07 Karta

Sampling Date : 08/23/17

Field Id Number : SV-09DL

Analysis Date : 08/29/17

Laboratory Id Number : I4984-01DL

Target Analyts : Air Results

Dibromochloromethane	124-48-1	208.3	20	UD	170		
1,2-Dibromoethane	106-93-4	187.9	20	UD	153		
Tetrachloroethene	127-18-4	165.8	8.8	D	59.7		
Chlorobenzene	108-90-7	112.6	20	UD	92.1		
Ethyl Benzene	100-41-4	106.2	20	UD	86.9		
m/p-Xylene	179601-23-1	106.2	11.2	JD	48.6		
o-Xylene	95-47-6	106.2	20	UD	86.9		
Styrene	100-42-5	104.1	20	UD	85.2		
Bromoform	75-25-2	252.8	20	UD	206		
1,1,2,2-Tetrachloroethane	79-34-5	167.9	20	UD	137		
2-Chlorotoluene	95-49-8	126.6	20	UD	103		
1,3,5-Trimethylbenzene	108-67-8	120.2	20	UD	98.3		
1,2,4-Trimethylbenzene	95-63-6	120.2	20	UD	98.3		
1,3-Dichlorobenzene	541-73-1	147	20	UD	120		
1,4-Dichlorobenzene	106-46-7	147	20	UD	120		
1,2-Dichlorobenzene	95-50-1	147	20	UD	120		
1,2,4-Trichlorobenzene	120-82-1	181.5	20	UD	148		
Hexachloro-1,3-Butadiene	87-68-3	260.8	20	UD	213		
1,3-Butadiene	106-99-0	54.09	20	UD	44.2		
Naphthalene	91-20-3	128.17	20	UD	104		
4-Ethyltoluene	622-96-8	120.2	20	UD	98.3		
Hexane	110-54-3	86.17	31.2	D	109		
Allyl Chloride	107-05-1	76.53	20	UD	62.6		
1,4-Dioxane	123-91-1	88.12	20	UD	72.1		
Methyl Methacrylate	80-62-6	100.117	20	UD	81.9		

Project : Air 81323.07 Karta

Sampling Date : 08/23/17

Field Id Number : SV-10

Analysis Date : 08/28/17

Laboratory Id Number : I4984-02

Target Analyts : Air Results

Chemical	Cas Number	Molecular Weight	Insert Results in PPBV	Qualifier	Generate Results in ug/m3	QAS Decision	Foot Notes
Dichlorodifluoromethane	75-71-8	120.9	1.4	J	6.92		
Chloromethane	74-87-3	50.49	5	U	10.3		
Vinyl Chloride	75-01-4	62.5	0.3	U	0.77		
Bromomethane	74-83-9	94.94	5	U	19.4		
Chloroethane	75-00-3	64.52	5	U	13.2		
Tetrahydrofuran	109-99-9	72.11	580	E	1710		
Trichlorofluoromethane	75-69-4	137.4	20.4		114		
Dichlorotetrafluoroethane	76-14-2	170.9	5	U	35.0		
1,1,2-Trichlorotrifluoroethane	76-13-1	187.4	5	U	38.3		
Bromoethene	593-60-2	106.9	5	U	21.9		
tert-Butyl alcohol	75-65-0	74.12	5	U	15.2		
Heptane	142-82-5	100.2	8.5		34.8		
1,1-Dichloroethene	75-35-4	96.94	5	U	19.8		
Acetone	67-64-1	58.08	140		332		
Carbon Disulfide	75-15-0	76.14	5	U	15.6		
Methyl tert-Butyl Ether	1634-04-4	88.15	5	U	18.0		
Methylene Chloride	75-09-2	84.94	4.2	J	14.6		
trans-1,2-Dichloroethene	156-60-5	96.94	5	U	19.8		
1,1-Dichloroethane	75-34-3	98.96	5	U	20.2		
Cyclohexane	110-82-7	84.16	13.6		46.8		
2-Butanone	78-93-3	72.11	270	E	796		
Carbon Tetrachloride	56-23-5	153.8	0.3	U	1.89		
cis-1,2-Dichloroethene	156-59-2	96.94	5	U	19.8		
Chloroform	67-66-3	119.4	5	U	24.4		
1,1,1-Trichloroethane	71-55-6	133.4	0.3	U	1.64		
2,2,4-Trimethylpentane	540-84-1	114.2	30.2		141		
Benzene	71-43-2	78.11	11		35.1		
1,2-Dichloroethane	107-06-2	98.96	5	U	20.2		
Trichloroethene	79-01-6	131.4	0.3	U	1.61		
1,2-Dichloropropane	78-87-5	113	5	U	23.1		
Bromodichloromethane	75-27-4	163.8	5	U	33.5		
4-Methyl-2-Pentanone	108-10-1	100.2	5	U	20.5		
Toluene	108-88-3	92.14	42.6		160		
t-1,3-Dichloropropene	10061-02-6	111	5	U	22.7		
cis-1,3-Dichloropropene	10061-01-5	111	5	U	22.7		
1,1,2-Trichloroethane	79-00-5	133.4	5	U	27.3		

Project : Air 81323.07 Karta

Sampling Date : 08/23/17

Field Id Number : SV-10

Analysis Date : 08/28/17

Laboratory Id Number : I4984-02

Target Analyts : Air Results

Dibromochloromethane	124-48-1	208.3	5	U	42.6		
1,2-Dibromoethane	106-93-4	187.9	5	U	38.4		
Tetrachloroethene	127-18-4	165.8	0.3	U	2.03		
Chlorobenzene	108-90-7	112.6	5	U	23.0		
Ethyl Benzene	100-41-4	106.2	4	J	17.4		
m/p-Xylene	179601-23-1	106.2	10.3		44.7		
o-Xylene	95-47-6	106.2	3.3	J	14.3		
Styrene	100-42-5	104.1	5.4		23.0		
Bromoform	75-25-2	252.8	5	U	51.7		
1,1,2,2-Tetrachloroethane	79-34-5	167.9	5	U	34.3		
2-Chlorotoluene	95-49-8	126.6	5	U	25.9		
1,3,5-Trimethylbenzene	108-67-8	120.2	5	U	24.6		
1,2,4-Trimethylbenzene	95-63-6	120.2	5	U	24.6		
1,3-Dichlorobenzene	541-73-1	147	5	U	30.1		
1,4-Dichlorobenzene	106-46-7	147	5	U	30.1		
1,2-Dichlorobenzene	95-50-1	147	5	U	30.1		
1,2,4-Trichlorobenzene	120-82-1	181.5	5	U	37.1		
Hexachloro-1,3-Butadiene	87-68-3	260.8	5	U	53.3		
Naphthalene	91-20-3	128.17	5	U	26.2		
1,3-Butadiene	106-99-0	54.09	5	U	11.1		
4-Ethyltoluene	622-96-8	120.2	5	U	24.6		
Hexane	110-54-3	86.17	35.5		125		
Allyl Chloride	107-05-1	76.53	5	U	15.6		
1,4-Dioxane	123-91-1	88.12	5	U	18.0		
Methyl Methacrylate	80-62-6	100.117	5	U	20.5		

Project : Air 81323.07 Karta

Sampling Date : 08/23/17

Field Id Number : SV-10DL

Analysis Date : 08/30/17

Laboratory Id Number : I4984-02DL

Target Analyts : Air Results

Chemical	Cas Number	Molecular Weight	Insert Results in PPBV	Qualifier	Generate Results in ug/m3	QAS Decision	Foot Notes
Dichlorodifluoromethane	75-71-8	120.9	50	UD	247		
Chloromethane	74-87-3	50.49	50	UD	103		
Vinyl Chloride	75-01-4	62.5	3	UD	7.67		
Bromomethane	74-83-9	94.94	50	UD	194		
Chloroethane	75-00-3	64.52	50	UD	131		
Tetrahydrofuran	109-99-9	72.11	520	D	1533		
Trichlorofluoromethane	75-69-4	137.4	20	JD	112		
Dichlorotetrafluoroethane	76-14-2	170.9	50	UD	349		
1,1,2-Trichlorotrifluoroethane	76-13-1	187.4	50	UD	383		
Bromoethene	593-60-2	106.9	50	UD	218		
tert-Butyl alcohol	75-65-0	74.12	50	UD	151		
Heptane	142-82-5	100.2	50	UD	204		
1,1-Dichloroethene	75-35-4	96.94	50	UD	198		
Acetone	67-64-1	58.08	260	D	617		
Carbon Disulfide	75-15-0	76.14	50	UD	155		
Methyl tert-Butyl Ether	1634-04-4	88.15	50	UD	180		
Methylene Chloride	75-09-2	84.94	50	UD	173		
trans-1,2-Dichloroethene	156-60-5	96.94	50	UD	198		
1,1-Dichloroethane	75-34-3	98.96	50	UD	202		
Cyclohexane	110-82-7	84.16	50	UD	172		
2-Butanone	78-93-3	72.11	230	D	678		
Carbon Tetrachloride	56-23-5	153.8	3	UD	18.9		
cis-1,2-Dichloroethene	156-59-2	96.94	50	UD	198		
Chloroform	67-66-3	119.4	50	UD	244		
1,1,1-Trichloroethane	71-55-6	133.4	3	UD	16.4		
2,2,4-Trimethylpentane	540-84-1	114.2	50	UD	233		
Benzene	71-43-2	78.11	50	UD	159		
1,2-Dichloroethane	107-06-2	98.96	50	UD	202		
Trichloroethene	79-01-6	131.4	3	UD	16.1		
1,2-Dichloropropane	78-87-5	113	50	UD	231		
Bromodichloromethane	75-27-4	163.8	50	UD	334		
4-Methyl-2-Pentanone	108-10-1	100.2	50	UD	204		
Toluene	108-88-3	92.14	27	JD	101		
t-1,3-Dichloropropene	10061-02-6	111	50	UD	226		
cis-1,3-Dichloropropene	10061-01-5	111	50	UD	226		
1,1,2-Trichloroethane	79-00-5	133.4	50	UD	272		

Project : Air 81323.07 Karta

Sampling Date : 08/23/17

Field Id Number : SV-10DL

Analysis Date : 08/30/17

Laboratory Id Number : I4984-02DL

Target Analyts : Air Results

Dibromochloromethane	124-48-1	208.3	50	UD	425		
1,2-Dibromoethane	106-93-4	187.9	50	UD	384		
Tetrachloroethene	127-18-4	165.8	3	UD	20.3		
Chlorobenzene	108-90-7	112.6	50	UD	230		
Ethyl Benzene	100-41-4	106.2	50	UD	217		
m/p-Xylene	179601-23-1	106.2	100	UD	434		
o-Xylene	95-47-6	106.2	50	UD	217		
Styrene	100-42-5	104.1	50	UD	212		
Bromoform	75-25-2	252.8	50	UD	516		
1,1,2,2-Tetrachloroethane	79-34-5	167.9	50	UD	343		
2-Chlorotoluene	95-49-8	126.6	50	UD	258		
1,3,5-Trimethylbenzene	108-67-8	120.2	50	UD	245		
1,2,4-Trimethylbenzene	95-63-6	120.2	50	UD	245		
1,3-Dichlorobenzene	541-73-1	147	50	UD	300		
1,4-Dichlorobenzene	106-46-7	147	50	UD	300		
1,2-Dichlorobenzene	95-50-1	147	50	UD	300		
1,2,4-Trichlorobenzene	120-82-1	181.5	50	UD	371		
Hexachloro-1,3-Butadiene	87-68-3	260.8	50	UD	533		
Naphthalene	91-20-3	128.17	50	UD	262		
1,3-Butadiene	106-99-0	54.09	50	UD	110		
4-Ethyltoluene	622-96-8	120.2	50	UD	245		
Hexane	110-54-3	86.17	50	UD	176		
Allyl Chloride	107-05-1	76.53	50	UD	156		
1,4-Dioxane	123-91-1	88.12	50	UD	180		
Methyl Methacrylate	80-62-6	100.117	50	UD	204		

Project : Air 81323.07 Karta

Sampling Date : 08/23/17

Field Id Number : SV-11

Analysis Date : 08/28/17

Laboratory Id Number : I4984-03

Target Analyts : Air Results

Chemical	Cas Number	Molecular Weight	Insert Results in PPBV	Qualifier	Generate Results in ug/m3	QAS Decision	Foot Notes
Dichlorodifluoromethane	75-71-8	120.9	1.7	J	8.41		
Chloromethane	74-87-3	50.49	5	U	10.3		
Vinyl Chloride	75-01-4	62.5	0.3	U	0.77		
Bromomethane	74-83-9	94.94	5	U	19.4		
Chloroethane	75-00-3	64.52	5	U	13.2		
Tetrahydrofuran	109-99-9	72.11	170	E	501		
Trichlorofluoromethane	75-69-4	137.4	9.6		54.0		
Dichlorotetrafluoroethane	76-14-2	170.9	5	U	35.0		
1,1,2-Trichlorotrifluoroethane	76-13-1	187.4	5	U	38.3		
Bromoethene	593-60-2	106.9	5	U	21.9		
tert-Butyl alcohol	75-65-0	74.12	5	U	15.2		
Heptane	142-82-5	100.2	7.6		31.2		
1,1-Dichloroethene	75-35-4	96.94	5	U	19.8		
Acetone	67-64-1	58.08	45.2		107		
Carbon Disulfide	75-15-0	76.14	21		65.4		
Methyl tert-Butyl Ether	1634-04-4	88.15	5	U	18.0		
Methylene Chloride	75-09-2	84.94	4.3	J	14.9		
trans-1,2-Dichloroethene	156-60-5	96.94	5	U	19.8		
1,1-Dichloroethane	75-34-3	98.96	5	U	20.2		
Cyclohexane	110-82-7	84.16	10		34.4		
2-Butanone	78-93-3	72.11	52.2		153		
Carbon Tetrachloride	56-23-5	153.8	0.3	U	1.89		
cis-1,2-Dichloroethene	156-59-2	96.94	5	U	19.8		
Chloroform	67-66-3	119.4	1.5	J	7.33		
1,1,1-Trichloroethane	71-55-6	133.4	0.3	U	1.64		
2,2,4-Trimethylpentane	540-84-1	114.2	12.6		58.8		
Benzene	71-43-2	78.11	9.4		30.0		
1,2-Dichloroethane	107-06-2	98.96	5	U	20.2		
Trichloroethene	79-01-6	131.4	0.3	U	1.61		
1,2-Dichloropropane	78-87-5	113	5	U	23.1		
Bromodichloromethane	75-27-4	163.8	5	U	33.5		
4-Methyl-2-Pentanone	108-10-1	100.2	5	U	20.5		
Toluene	108-88-3	92.14	41.9		157		
t-1,3-Dichloropropene	10061-02-6	111	5	U	22.7		
cis-1,3-Dichloropropene	10061-01-5	111	5	U	22.7		
1,1,2-Trichloroethane	79-00-5	133.4	5	U	27.3		

Project : Air 81323.07 Karta

Sampling Date : 08/23/17

Field Id Number : SV-11

Analysis Date : 08/28/17

Laboratory Id Number : I4984-03

Target Analyts : Air Results

Dibromochloromethane	124-48-1	208.3	5	U	42.6		
1,2-Dibromoethane	106-93-4	187.9	5	U	38.4		
Tetrachloroethene	127-18-4	165.8	0.3	U	2.03		
Chlorobenzene	108-90-7	112.6	5	U	23.0		
Ethyl Benzene	100-41-4	106.2	6		26.1		
m/p-Xylene	179601-23-1	106.2	18.1		78.6		
o-Xylene	95-47-6	106.2	6.5		28.2		
Styrene	100-42-5	104.1	6.4		27.2		
Bromoform	75-25-2	252.8	5	U	51.7		
1,1,2,2-Tetrachloroethane	79-34-5	167.9	5	U	34.3		
2-Chlorotoluene	95-49-8	126.6	5	U	25.9		
1,3,5-Trimethylbenzene	108-67-8	120.2	5	U	24.6		
1,2,4-Trimethylbenzene	95-63-6	120.2	2.9	J	14.3		
1,3-Dichlorobenzene	541-73-1	147	5	U	30.1		
1,4-Dichlorobenzene	106-46-7	147	5	U	30.1		
1,2-Dichlorobenzene	95-50-1	147	5	U	30.1		
1,2,4-Trichlorobenzene	120-82-1	181.5	5	U	37.1		
Hexachloro-1,3-Butadiene	87-68-3	260.8	5	U	53.3		
1,3-Butadiene	106-99-0	54.09	5	U	11.1		
Naphthalene	91-20-3	128.17	5	U	26.2		
4-Ethyltoluene	622-96-8	120.2	1.3	J	6.39		
Hexane	110-54-3	86.17	27.7		97.6		
Allyl Chloride	107-05-1	76.53	5	U	15.6		
1,4-Dioxane	123-91-1	88.12	5	U	18.0		
Methyl Methacrylate	80-62-6	100.117	5	U	20.5		

Project : Air 81323.07 Karta

Sampling Date : 08/23/17

Field Id Number : SV-11DL

Analysis Date : 08/29/17

Laboratory Id Number : I4984-03DL

Target Analyts : Air Results

Chemical	Cas Number	Molecular Weight	Insert Results in PPBV	Qualifier	Generate Results in ug/m3	QAS Decision	Foot Notes
Dichlorodifluoromethane	75-71-8	120.9	10	UD	49.4		
Chloromethane	74-87-3	50.49	10	UD	20.6		
Vinyl Chloride	75-01-4	62.5	0.6	UD	1.53		
Bromomethane	74-83-9	94.94	10	UD	38.8		
Chloroethane	75-00-3	64.52	10	UD	26.4		
Tetrahydrofuran	109-99-9	72.11	180	D	530		
Trichlorofluoromethane	75-69-4	137.4	11.2	D	62.9		
Dichlorotetrafluoroethane	76-14-2	170.9	10	UD	69.9		
1,1,2-Trichlorotrifluoroethane	76-13-1	187.4	10	UD	76.6		
Bromoethene	593-60-2	106.9	10	UD	43.7		
tert-Butyl alcohol	75-65-0	74.12	10	UD	30.3		
Heptane	142-82-5	100.2	8.2	JD	33.6		
1,1-Dichloroethene	75-35-4	96.94	10	UD	39.6		
Acetone	67-64-1	58.08	55.6	D	132		
Carbon Disulfide	75-15-0	76.14	22.6	D	70.4		
Methyl tert-Butyl Ether	1634-04-4	88.15	10	UD	36.0		
Methylene Chloride	75-09-2	84.94	10	UD	34.7		
trans-1,2-Dichloroethene	156-60-5	96.94	10	UD	39.6		
1,1-Dichloroethane	75-34-3	98.96	10	UD	40.5		
Cyclohexane	110-82-7	84.16	10.8	D	37.2		
2-Butanone	78-93-3	72.11	58	D	171		
Carbon Tetrachloride	56-23-5	153.8	0.6	UD	3.77		
cis-1,2-Dichloroethene	156-59-2	96.94	10	UD	39.6		
Chloroform	67-66-3	119.4	10	UD	48.8		
1,1,1-Trichloroethane	71-55-6	133.4	0.6	UD	3.27		
2,2,4-Trimethylpentane	540-84-1	114.2	14	D	65.4		
Benzene	71-43-2	78.11	9.8	JD	31.3		
1,2-Dichloroethane	107-06-2	98.96	10	UD	40.5		
Trichloroethene	79-01-6	131.4	0.6	UD	3.22		
1,2-Dichloropropane	78-87-5	113	10	UD	46.2		
Bromodichloromethane	75-27-4	163.8	10	UD	67.0		
4-Methyl-2-Pentanone	108-10-1	100.2	10	UD	41.0		
Toluene	108-88-3	92.14	46.2	D	174		
t-1,3-Dichloropropene	10061-02-6	111	10	UD	45.4		
cis-1,3-Dichloropropene	10061-01-5	111	10	UD	45.4		
1,1,2-Trichloroethane	79-00-5	133.4	10	UD	54.6		

Project : Air 81323.07 Karta

Sampling Date : 08/23/17

Field Id Number : SV-11DL

Analysis Date : 08/29/17

Laboratory Id Number : I4984-03DL

Target Analyts : Air Results

Dibromochloromethane	124-48-1	208.3	10	UD	85.2		
1,2-Dibromoethane	106-93-4	187.9	10	UD	76.8		
Tetrachloroethene	127-18-4	165.8	0.6	UD	4.07		
Chlorobenzene	108-90-7	112.6	10	UD	46.0		
Ethyl Benzene	100-41-4	106.2	5.6	JD	24.3		
m/p-Xylene	179601-23-1	106.2	18.6	JD	80.8		
o-Xylene	95-47-6	106.2	6.4	JD	27.8		
Styrene	100-42-5	104.1	6	JD	25.6		
Bromoform	75-25-2	252.8	10	UD	103		
1,1,2,2-Tetrachloroethane	79-34-5	167.9	10	UD	68.7		
2-Chlorotoluene	95-49-8	126.6	10	UD	51.8		
1,3,5-Trimethylbenzene	108-67-8	120.2	10	UD	49.2		
1,2,4-Trimethylbenzene	95-63-6	120.2	10	UD	49.2		
1,3-Dichlorobenzene	541-73-1	147	10	UD	60.1		
1,4-Dichlorobenzene	106-46-7	147	10	UD	60.1		
1,2-Dichlorobenzene	95-50-1	147	10	UD	60.1		
1,2,4-Trichlorobenzene	120-82-1	181.5	10	UD	74.2		
Hexachloro-1,3-Butadiene	87-68-3	260.8	10	UD	106		
Naphthalene	91-20-3	128.17	10	UD	52.4		
1,3-Butadiene	106-99-0	54.09	10	UD	22.1		
4-Ethyltoluene	622-96-8	120.2	10	UD	49.2		
Hexane	110-54-3	86.17	30.4	D	107		
Allyl Chloride	107-05-1	76.53	10	UD	31.3		
1,4-Dioxane	123-91-1	88.12	10	UD	36.0		
Methyl Methacrylate	80-62-6	100.117	10	UD	41.0		

Project : Air 81323.07 Karta

Sampling Date : 08/23/17

Field Id Number : SV-12

Analysis Date : 08/29/17

Laboratory Id Number : I4984-04

Target Analyts : Air Results

Chemical	Cas Number	Molecular Weight	Insert Results in PPBV	Qualifier	Generate Results in ug/m3	QAS Decision	Foot Notes
Dichlorodifluoromethane	75-71-8	120.9	0.14	J	0.69		
Chloromethane	74-87-3	50.49	0.45	J	0.93		
Vinyl Chloride	75-01-4	62.5	0.03	U	0.08		
Bromomethane	74-83-9	94.94	0.5	U	1.94		
Chloroethane	75-00-3	64.52	0.5	U	1.32		
Tetrahydrofuran	109-99-9	72.11	18.7	E	55.2		
Trichlorofluoromethane	75-69-4	137.4	0.2	J	1.12		
Dichlorotetrafluoroethane	76-14-2	170.9	0.5	U	3.49		
1,1,2-Trichlorotrifluoroethane	76-13-1	187.4	0.5	U	3.83		
Bromoethene	593-60-2	106.9	0.5	U	2.19		
tert-Butyl alcohol	75-65-0	74.12	0.5	U	1.52		
Heptane	142-82-5	100.2	1.3		5.33		
1,1-Dichloroethene	75-35-4	96.94	0.5	U	1.98		
Acetone	67-64-1	58.08	7.8		18.5		
Carbon Disulfide	75-15-0	76.14	0.5	U	1.56		
Methyl tert-Butyl Ether	1634-04-4	88.15	0.5	U	1.8		
Methylene Chloride	75-09-2	84.94	0.96		3.34		
trans-1,2-Dichloroethene	156-60-5	96.94	0.5	U	1.98		
1,1-Dichloroethane	75-34-3	98.96	0.5	U	2.02		
Cyclohexane	110-82-7	84.16	2.3		7.92		
2-Butanone	78-93-3	72.11	9.8		28.9		
Carbon Tetrachloride	56-23-5	153.8	0.07		0.44		
cis-1,2-Dichloroethene	156-59-2	96.94	0.5	U	1.98		
Chloroform	67-66-3	119.4	0.5	U	2.44		
1,1,1-Trichloroethane	71-55-6	133.4	0.03	U	0.16		
2,2,4-Trimethylpentane	540-84-1	114.2	1.9		8.87		
Benzene	71-43-2	78.11	2.1		6.71		
1,2-Dichloroethane	107-06-2	98.96	0.5	U	2.02		
Trichloroethene	79-01-6	131.4	0.03	U	0.16		
1,2-Dichloropropane	78-87-5	113	0.5	U	2.31		
Bromodichloromethane	75-27-4	163.8	0.5	U	3.35		
4-Methyl-2-Pentanone	108-10-1	100.2	0.5	U	2.05		
Toluene	108-88-3	92.14	6		22.6		
t-1,3-Dichloropropene	10061-02-6	111	0.5	U	2.27		
cis-1,3-Dichloropropene	10061-01-5	111	0.5	U	2.27		
1,1,2-Trichloroethane	79-00-5	133.4	0.5	U	2.73		

Project : Air 81323.07 Karta

Sampling Date : 08/23/17

Field Id Number : SV-12

Analysis Date : 08/29/17

Laboratory Id Number : I4984-04

Target Analyts : Air Results

Dibromochloromethane	124-48-1	208.3	0.5	U	4.26		
1,2-Dibromoethane	106-93-4	187.9	0.5	U	3.84		
Tetrachloroethene	127-18-4	165.8	0.06		0.41		
Chlorobenzene	108-90-7	112.6	0.5	U	2.3		
Ethyl Benzene	100-41-4	106.2	0.57		2.48		
m/p-Xylene	179601-23-1	106.2	1.4		6.08		
o-Xylene	95-47-6	106.2	0.33	J	1.43		
Styrene	100-42-5	104.1	0.98		4.17		
Bromoform	75-25-2	252.8	0.5	U	5.17		
1,1,2,2-Tetrachloroethane	79-34-5	167.9	0.5	U	3.43		
2-Chlorotoluene	95-49-8	126.6	0.5	U	2.59		
1,3,5-Trimethylbenzene	108-67-8	120.2	0.5	U	2.46		
1,2,4-Trimethylbenzene	95-63-6	120.2	0.5	U	2.46		
1,3-Dichlorobenzene	541-73-1	147	0.5	U	3.01		
1,4-Dichlorobenzene	106-46-7	147	0.5	U	3.01		
1,2-Dichlorobenzene	95-50-1	147	0.5	U	3.01		
1,2,4-Trichlorobenzene	120-82-1	181.5	0.5	U	3.71		
Hexachloro-1,3-Butadiene	87-68-3	260.8	0.5	U	5.33		
Naphthalene	91-20-3	128.17	0.5	U	2.62		
1,3-Butadiene	106-99-0	54.09	0.5	U	1.11		
4-Ethyltoluene	622-96-8	120.2	0.5	U	2.46		
Hexane	110-54-3	86.17	7.5		26.4		
Allyl Chloride	107-05-1	76.53	0.5	U	1.57		
1,4-Dioxane	123-91-1	88.12	0.5	U	1.8		
Methyl Methacrylate	80-62-6	100.117	0.5	U	2.05		

Project : Air 81323.07 Karta

Sampling Date : 08/23/17

Field Id Number : SV-12DL

Analysis Date : 08/28/17

Laboratory Id Number : I4984-04DL

Target Analyts : Air Results

Chemical	Cas Number	Molecular Weight	Insert Results in PPBV	Qualifier	Generate Results in ug/m3	QAS Decision	Foot Notes
Dichlorodifluoromethane	75-71-8	120.9	5	UD	24.7		
Chloromethane	74-87-3	50.49	5	UD	10.3		
Vinyl Chloride	75-01-4	62.5	0.3	UD	0.77		
Bromomethane	74-83-9	94.94	5	UD	19.4		
Chloroethane	75-00-3	64.52	5	UD	13.2		
Tetrahydrofuran	109-99-9	72.11	16.1	D	47.5		
Trichlorofluoromethane	75-69-4	137.4	5	UD	28.1		
Dichlorotetrafluoroethane	76-14-2	170.9	5	UD	35.0		
1,1,2-Trichlorotrifluoroethane	76-13-1	187.4	5	UD	38.3		
Bromoethene	593-60-2	106.9	5	UD	21.9		
tert-Butyl alcohol	75-65-0	74.12	5	UD	15.2		
Heptane	142-82-5	100.2	5	UD	20.5		
1,1-Dichloroethene	75-35-4	96.94	5	UD	19.8		
Acetone	67-64-1	58.08	5	UD	11.9		
Carbon Disulfide	75-15-0	76.14	5	UD	15.6		
Methyl tert-Butyl Ether	1634-04-4	88.15	5	UD	18.0		
Methylene Chloride	75-09-2	84.94	5	UD	17.4		
trans-1,2-Dichloroethene	156-60-5	96.94	5	UD	19.8		
1,1-Dichloroethane	75-34-3	98.96	5	UD	20.2		
Cyclohexane	110-82-7	84.16	2.1	JD	7.23		
2-Butanone	78-93-3	72.11	8.8	D	26.0		
Carbon Tetrachloride	56-23-5	153.8	0.3	UD	1.89		
cis-1,2-Dichloroethene	156-59-2	96.94	5	UD	19.8		
Chloroform	67-66-3	119.4	5	UD	24.4		
1,1,1-Trichloroethane	71-55-6	133.4	0.3	UD	1.64		
2,2,4-Trimethylpentane	540-84-1	114.2	1.9	JD	8.87		
Benzene	71-43-2	78.11	1.7	JD	5.43		
1,2-Dichloroethane	107-06-2	98.96	5	UD	20.2		
Trichloroethene	79-01-6	131.4	0.3	UD	1.61		
1,2-Dichloropropane	78-87-5	113	5	UD	23.1		
Bromodichloromethane	75-27-4	163.8	5	UD	33.5		
4-Methyl-2-Pentanone	108-10-1	100.2	5	UD	20.5		
Toluene	108-88-3	92.14	4.7	JD	17.7		
t-1,3-Dichloropropene	10061-02-6	111	5	UD	22.7		
cis-1,3-Dichloropropene	10061-01-5	111	5	UD	22.7		
1,1,2-Trichloroethane	79-00-5	133.4	5	UD	27.3		

Project : Air 81323.07 Karta

Sampling Date : 08/23/17

Field Id Number : SV-12DL

Analysis Date : 08/28/17

Laboratory Id Number : I4984-04DL

Target Analyts : Air Results

Dibromochloromethane	124-48-1	208.3	5	UD	42.6		
1,2-Dibromoethane	106-93-4	187.9	5	UD	38.4		
Tetrachloroethene	127-18-4	165.8	0.3	UD	2.03		
Chlorobenzene	108-90-7	112.6	5	UD	23.0		
Ethyl Benzene	100-41-4	106.2	5	UD	21.7		
m/p-Xylene	179601-23-1	106.2	10	UD	43.4		
o-Xylene	95-47-6	106.2	5	UD	21.7		
Styrene	100-42-5	104.1	5	UD	21.3		
Bromoform	75-25-2	252.8	5	UD	51.7		
1,1,2,2-Tetrachloroethane	79-34-5	167.9	5	UD	34.3		
2-Chlorotoluene	95-49-8	126.6	5	UD	25.9		
1,3,5-Trimethylbenzene	108-67-8	120.2	5	UD	24.6		
1,2,4-Trimethylbenzene	95-63-6	120.2	5	UD	24.6		
1,3-Dichlorobenzene	541-73-1	147	5	UD	30.1		
1,4-Dichlorobenzene	106-46-7	147	5	UD	30.1		
1,2-Dichlorobenzene	95-50-1	147	5	UD	30.1		
1,2,4-Trichlorobenzene	120-82-1	181.5	5	UD	37.1		
Hexachloro-1,3-Butadiene	87-68-3	260.8	5	UD	53.3		
Naphthalene	91-20-3	128.17	5	UD	26.2		
1,3-Butadiene	106-99-0	54.09	5	UD	11.1		
4-Ethyltoluene	622-96-8	120.2	5	UD	24.6		
Hexane	110-54-3	86.17	7.1	D	25.0		
Allyl Chloride	107-05-1	76.53	5	UD	15.6		
1,4-Dioxane	123-91-1	88.12	5	UD	18.0		
Methyl Methacrylate	80-62-6	100.117	5	UD	20.5		

Project : Air 81323.07 Karta

Sampling Date : 08/23/17

Field Id Number : OUTDOOR-AIR

Analysis Date : 08/28/17

Laboratory Id Number : I4984-05

Target Analyts : Air Results

Chemical	Cas Number	Molecular Weight	Insert Results in PPBV	Qualifier	Generate Results in ug/m3	QAS Decision	Foot Notes
Dichlorodifluoromethane	75-71-8	120.9	0.5	U	2.47		
Chloromethane	74-87-3	50.49	0.44	J	0.91		
Vinyl Chloride	75-01-4	62.5	0.03	U	0.08		
Bromomethane	74-83-9	94.94	0.5	U	1.94		
Chloroethane	75-00-3	64.52	0.5	U	1.32		
Tetrahydrofuran	109-99-9	72.11	9.4		27.7		
Trichlorofluoromethane	75-69-4	137.4	0.23	J	1.29		
Dichlorotetrafluoroethane	76-14-2	170.9	0.5	U	3.49		
1,1,2-Trichlorotrifluoroethane	76-13-1	187.4	0.5	U	3.83		
Bromoethene	593-60-2	106.9	0.5	U	2.19		
tert-Butyl alcohol	75-65-0	74.12	0.5	U	1.52		
Heptane	142-82-5	100.2	4.6		18.8		
1,1-Dichloroethene	75-35-4	96.94	0.5	U	1.98		
Acetone	67-64-1	58.08	4.2		9.98		
Carbon Disulfide	75-15-0	76.14	0.5	U	1.56		
Methyl tert-Butyl Ether	1634-04-4	88.15	0.5	U	1.8		
Methylene Chloride	75-09-2	84.94	1.1		3.82		
trans-1,2-Dichloroethene	156-60-5	96.94	0.5	U	1.98		
1,1-Dichloroethane	75-34-3	98.96	0.5	U	2.02		
Cyclohexane	110-82-7	84.16	2.2		7.57		
2-Butanone	78-93-3	72.11	8.7		25.7		
Carbon Tetrachloride	56-23-5	153.8	0.03	U	0.19		
cis-1,2-Dichloroethene	156-59-2	96.94	0.5	U	1.98		
Chloroform	67-66-3	119.4	0.5	U	2.44		
1,1,1-Trichloroethane	71-55-6	133.4	0.03	U	0.16		
2,2,4-Trimethylpentane	540-84-1	114.2	4.3		20.1		
Benzene	71-43-2	78.11	4.8		15.3		
1,2-Dichloroethane	107-06-2	98.96	0.5	U	2.02		
Trichloroethene	79-01-6	131.4	0.21		1.13		
1,2-Dichloropropane	78-87-5	113	0.5	U	2.31		
Bromodichloromethane	75-27-4	163.8	0.5	U	3.35		
4-Methyl-2-Pentanone	108-10-1	100.2	0.5	U	2.05		
Toluene	108-88-3	92.14	21.8	E	82.2		
t-1,3-Dichloropropene	10061-02-6	111	0.5	U	2.27		
cis-1,3-Dichloropropene	10061-01-5	111	0.5	U	2.27		
1,1,2-Trichloroethane	79-00-5	133.4	0.5	U	2.73		

Project : Air 81323.07 Karta

Sampling Date : 08/23/17

Field Id Number : OUTDOOR-AIR

Analysis Date : 08/28/17

Laboratory Id Number : I4984-05

Target Analyts : Air Results

Dibromochloromethane	124-48-1	208.3	0.5	U	4.26		
1,2-Dibromoethane	106-93-4	187.9	0.5	U	3.84		
Tetrachloroethene	127-18-4	165.8	0.34		2.31		
Chlorobenzene	108-90-7	112.6	0.5	U	2.3		
Ethyl Benzene	100-41-4	106.2	1.5		6.52		
m/p-Xylene	179601-23-1	106.2	1.8		7.82		
o-Xylene	95-47-6	106.2	0.64		2.78		
Styrene	100-42-5	104.1	2.6		11.1		
Bromoform	75-25-2	252.8	0.5	U	5.17		
1,1,2,2-Tetrachloroethane	79-34-5	167.9	0.5	U	3.43		
2-Chlorotoluene	95-49-8	126.6	0.5	U	2.59		
1,3,5-Trimethylbenzene	108-67-8	120.2	0.18	J	0.88		
1,2,4-Trimethylbenzene	95-63-6	120.2	0.41	J	2.02		
1,3-Dichlorobenzene	541-73-1	147	0.5	U	3.01		
1,4-Dichlorobenzene	106-46-7	147	0.5	U	3.01		
1,2-Dichlorobenzene	95-50-1	147	0.5	U	3.01		
1,2,4-Trichlorobenzene	120-82-1	181.5	0.5	U	3.71		
Hexachloro-1,3-Butadiene	87-68-3	260.8	0.5	U	5.33		
Naphthalene	91-20-3	128.17	0.5	U	2.62		
1,3-Butadiene	106-99-0	54.09	0.5	U	1.11		
4-Ethyltoluene	622-96-8	120.2	0.12	J	0.59		
Hexane	110-54-3	86.17	22.1	E	77.9		
Allyl Chloride	107-05-1	76.53	0.5	U	1.57		
1,4-Dioxane	123-91-1	88.12	0.5	U	1.8		
Methyl Methacrylate	80-62-6	100.117	0.5	U	2.05		

Project : Air 81323.07 Karta

Sampling Date : 08/23/17

Field Id Number : OUTDOOR-AIRDL

Analysis Date : 08/28/17

Laboratory Id Number : I4984-05DL

Target Analyts : Air Results

Chemical	Cas Number	Molecular Weight	Insert Results in PPBV	Qualifier	Generate Results in ug/m3	QAS Decision	Foot Notes
Dichlorodifluoromethane	75-71-8	120.9	5	UD	24.7		
Chloromethane	74-87-3	50.49	5	UD	10.3		
Vinyl Chloride	75-01-4	62.5	0.3	UD	0.77		
Bromomethane	74-83-9	94.94	5	UD	19.4		
Chloroethane	75-00-3	64.52	5	UD	13.2		
Tetrahydrofuran	109-99-9	72.11	7.6	D	22.4		
Trichlorofluoromethane	75-69-4	137.4	5	UD	28.1		
Dichlorotetrafluoroethane	76-14-2	170.9	5	UD	35.0		
1,1,2-Trichlorotrifluoroethane	76-13-1	187.4	5	UD	38.3		
Bromoethene	593-60-2	106.9	5	UD	21.9		
tert-Butyl alcohol	75-65-0	74.12	5	UD	15.2		
Heptane	142-82-5	100.2	3.1	JD	12.7		
1,1-Dichloroethene	75-35-4	96.94	5	UD	19.8		
Acetone	67-64-1	58.08	5	UD	11.9		
Carbon Disulfide	75-15-0	76.14	5	UD	15.6		
Methyl tert-Butyl Ether	1634-04-4	88.15	5	UD	18.0		
Methylene Chloride	75-09-2	84.94	5	UD	17.4		
trans-1,2-Dichloroethene	156-60-5	96.94	5	UD	19.8		
1,1-Dichloroethane	75-34-3	98.96	5	UD	20.2		
Cyclohexane	110-82-7	84.16	5	UD	17.2		
2-Butanone	78-93-3	72.11	7.2	D	21.2		
Carbon Tetrachloride	56-23-5	153.8	0.3	UD	1.89		
cis-1,2-Dichloroethene	156-59-2	96.94	5	UD	19.8		
Chloroform	67-66-3	119.4	5	UD	24.4		
1,1,1-Trichloroethane	71-55-6	133.4	0.3	UD	1.64		
2,2,4-Trimethylpentane	540-84-1	114.2	4.5	JD	21.0		
Benzene	71-43-2	78.11	3.9	JD	12.5		
1,2-Dichloroethane	107-06-2	98.96	5	UD	20.2		
Trichloroethene	79-01-6	131.4	0.3	UD	1.61		
1,2-Dichloropropane	78-87-5	113	5	UD	23.1		
Bromodichloromethane	75-27-4	163.8	5	UD	33.5		
4-Methyl-2-Pentanone	108-10-1	100.2	5	UD	20.5		
Toluene	108-88-3	92.14	19.3	D	72.7		
t-1,3-Dichloropropene	10061-02-6	111	5	UD	22.7		
cis-1,3-Dichloropropene	10061-01-5	111	5	UD	22.7		
1,1,2-Trichloroethane	79-00-5	133.4	5	UD	27.3		

Project : Air 81323.07 Karta

Sampling Date : 08/23/17

Field Id Number : OUTDOOR-AIRDL

Analysis Date : 08/28/17

Laboratory Id Number : I4984-05DL

Target Analyts : Air Results

Dibromochloromethane	124-48-1	208.3	5	UD	42.6		
1,2-Dibromoethane	106-93-4	187.9	5	UD	38.4		
Tetrachloroethene	127-18-4	165.8	0.3	UD	2.03		
Chlorobenzene	108-90-7	112.6	5	UD	23.0		
Ethyl Benzene	100-41-4	106.2	1.1	JD	4.78		
m/p-Xylene	179601-23-1	106.2	1.3	JD	5.65		
o-Xylene	95-47-6	106.2	5	UD	21.7		
Styrene	100-42-5	104.1	1.8	JD	7.66		
Bromoform	75-25-2	252.8	5	UD	51.7		
1,1,2,2-Tetrachloroethane	79-34-5	167.9	5	UD	34.3		
2-Chlorotoluene	95-49-8	126.6	5	UD	25.9		
1,3,5-Trimethylbenzene	108-67-8	120.2	5	UD	24.6		
1,2,4-Trimethylbenzene	95-63-6	120.2	5	UD	24.6		
1,3-Dichlorobenzene	541-73-1	147	5	UD	30.1		
1,4-Dichlorobenzene	106-46-7	147	5	UD	30.1		
1,2-Dichlorobenzene	95-50-1	147	5	UD	30.1		
1,2,4-Trichlorobenzene	120-82-1	181.5	5	UD	37.1		
Hexachloro-1,3-Butadiene	87-68-3	260.8	5	UD	53.3		
Naphthalene	91-20-3	128.17	5	UD	26.2		
1,3-Butadiene	106-99-0	54.09	5	UD	11.1		
4-Ethyltoluene	622-96-8	120.2	5	UD	24.6		
Hexane	110-54-3	86.17	19.8	D	69.8		
Allyl Chloride	107-05-1	76.53	5	UD	15.6		
1,4-Dioxane	123-91-1	88.12	5	UD	18.0		
Methyl Methacrylate	80-62-6	100.117	5	UD	20.5		

Project : Air 81323.07 Karta

Sampling Date : 08/23/17

Field Id Number : SV-13

Analysis Date : 08/28/17

Laboratory Id Number : I4984-06

Target Analyts : Air Results

Chemical	Cas Number	Molecular Weight	Insert Results in PPBV	Qualifier	Generate Results in ug/m3	QAS Decision	Foot Notes
Dichlorodifluoromethane	75-71-8	120.9	1.9	J	9.4		
Chloromethane	74-87-3	50.49	5	U	10.3		
Vinyl Chloride	75-01-4	62.5	0.3	U	0.77		
Bromomethane	74-83-9	94.94	5	U	19.4		
Chloroethane	75-00-3	64.52	5	U	13.2		
Tetrahydrofuran	109-99-9	72.11	320	E	943		
Trichlorofluoromethane	75-69-4	137.4	14.5		81.5		
Dichlorotetrafluoroethane	76-14-2	170.9	3.6	J	25.2		
1,1,2-Trichlorotrifluoroethane	76-13-1	187.4	5	U	38.3		
Bromoethene	593-60-2	106.9	5	U	21.9		
tert-Butyl alcohol	75-65-0	74.12	13		39.4		
Heptane	142-82-5	100.2	7.1		29.1		
1,1-Dichloroethene	75-35-4	96.94	5	U	19.8		
Acetone	67-64-1	58.08	100		237		
Carbon Disulfide	75-15-0	76.14	8.9		27.7		
Methyl tert-Butyl Ether	1634-04-4	88.15	5	U	18.0		
Methylene Chloride	75-09-2	84.94	5		17.4		
trans-1,2-Dichloroethene	156-60-5	96.94	5	U	19.8		
1,1-Dichloroethane	75-34-3	98.96	5	U	20.2		
Cyclohexane	110-82-7	84.16	9.2		31.7		
2-Butanone	78-93-3	72.11	99.6		293		
Carbon Tetrachloride	56-23-5	153.8	0.3	U	1.89		
cis-1,2-Dichloroethene	156-59-2	96.94	5	U	19.8		
Chloroform	67-66-3	119.4	2.3	J	11.2		
1,1,1-Trichloroethane	71-55-6	133.4	0.3	U	1.64		
2,2,4-Trimethylpentane	540-84-1	114.2	15.3		71.5		
Benzene	71-43-2	78.11	11		35.1		
1,2-Dichloroethane	107-06-2	98.96	5	U	20.2		
Trichloroethene	79-01-6	131.4	0.3	U	1.61		
1,2-Dichloropropane	78-87-5	113	5	U	23.1		
Bromodichloromethane	75-27-4	163.8	5	U	33.5		
4-Methyl-2-Pentanone	108-10-1	100.2	5	U	20.5		
Toluene	108-88-3	92.14	41.8		157		
t-1,3-Dichloropropene	10061-02-6	111	5	U	22.7		
cis-1,3-Dichloropropene	10061-01-5	111	5	U	22.7		
1,1,2-Trichloroethane	79-00-5	133.4	5	U	27.3		

Project : Air 81323.07 Karta

Sampling Date : 08/23/17

Field Id Number : SV-13

Analysis Date : 08/28/17

Laboratory Id Number : I4984-06

Target Analyts : Air Results

Dibromochloromethane	124-48-1	208.3	5	U	42.6		
1,2-Dibromoethane	106-93-4	187.9	5	U	38.4		
Tetrachloroethene	127-18-4	165.8	0.3	U	2.03		
Chlorobenzene	108-90-7	112.6	5	U	23.0		
Ethyl Benzene	100-41-4	106.2	4.8	J	20.8		
m/p-Xylene	179601-23-1	106.2	14.5		63.0		
o-Xylene	95-47-6	106.2	5.4		23.5		
Styrene	100-42-5	104.1	5	U	21.3		
Bromoform	75-25-2	252.8	5	U	51.7		
1,1,2,2-Tetrachloroethane	79-34-5	167.9	5	U	34.3		
2-Chlorotoluene	95-49-8	126.6	5	U	25.9		
1,3,5-Trimethylbenzene	108-67-8	120.2	5	U	24.6		
1,2,4-Trimethylbenzene	95-63-6	120.2	2.8	J	13.8		
1,3-Dichlorobenzene	541-73-1	147	5	U	30.1		
1,4-Dichlorobenzene	106-46-7	147	5	U	30.1		
1,2-Dichlorobenzene	95-50-1	147	5	U	30.1		
1,2,4-Trichlorobenzene	120-82-1	181.5	5	U	37.1		
Hexachloro-1,3-Butadiene	87-68-3	260.8	5	U	53.3		
Naphthalene	91-20-3	128.17	5	U	26.2		
1,3-Butadiene	106-99-0	54.09	5	U	11.1		
4-Ethyltoluene	622-96-8	120.2	1.1	J	5.41		
Hexane	110-54-3	86.17	31.3		110		
Allyl Chloride	107-05-1	76.53	5	U	15.6		
1,4-Dioxane	123-91-1	88.12	5	U	18.0		
Methyl Methacrylate	80-62-6	100.117	5	U	20.5		

Project : Air 81323.07 Karta

Sampling Date : 08/23/17

Field Id Number : SV-13DL

Analysis Date : 08/29/17

Laboratory Id Number : I4984-06DL

Target Analyts : Air Results

Chemical	Cas Number	Molecular Weight	Insert Results in PPBV	Qualifier	Generate Results in ug/m3	QAS Decision	Foot Notes
Dichlorodifluoromethane	75-71-8	120.9	20	UD	98.9		
Chloromethane	74-87-3	50.49	20	UD	41.3		
Vinyl Chloride	75-01-4	62.5	1.2	UD	3.07		
Bromomethane	74-83-9	94.94	20	UD	77.7		
Chloroethane	75-00-3	64.52	20	UD	52.8		
Tetrahydrofuran	109-99-9	72.11	360	D	1061		
Trichlorofluoromethane	75-69-4	137.4	16.8	JD	94.4		
Dichlorotetrafluoroethane	76-14-2	170.9	20	UD	139		
1,1,2-Trichlorotrifluoroethane	76-13-1	187.4	20	UD	153		
Bromoethene	593-60-2	106.9	20	UD	87.4		
tert-Butyl alcohol	75-65-0	74.12	20	UD	60.6		
Heptane	142-82-5	100.2	20	UD	82.0		
1,1-Dichloroethene	75-35-4	96.94	20	UD	79.3		
Acetone	67-64-1	58.08	100	D	237		
Carbon Disulfide	75-15-0	76.14	20	UD	62.3		
Methyl tert-Butyl Ether	1634-04-4	88.15	20	UD	72.1		
Methylene Chloride	75-09-2	84.94	20	UD	69.5		
trans-1,2-Dichloroethene	156-60-5	96.94	20	UD	79.3		
1,1-Dichloroethane	75-34-3	98.96	20	UD	81.0		
Cyclohexane	110-82-7	84.16	20	UD	68.8		
2-Butanone	78-93-3	72.11	110	D	324		
Carbon Tetrachloride	56-23-5	153.8	1.2	UD	7.55		
cis-1,2-Dichloroethene	156-59-2	96.94	20	UD	79.3		
Chloroform	67-66-3	119.4	20	UD	97.7		
1,1,1-Trichloroethane	71-55-6	133.4	1.2	UD	6.55		
2,2,4-Trimethylpentane	540-84-1	114.2	15.6	JD	72.9		
Benzene	71-43-2	78.11	11.2	JD	35.8		
1,2-Dichloroethane	107-06-2	98.96	20	UD	81.0		
Trichloroethene	79-01-6	131.4	1.2	UD	6.45		
1,2-Dichloropropane	78-87-5	113	20	UD	92.4		
Bromodichloromethane	75-27-4	163.8	20	UD	133		
4-Methyl-2-Pentanone	108-10-1	100.2	20	UD	82.0		
Toluene	108-88-3	92.14	42.8	D	161		
t-1,3-Dichloropropene	10061-02-6	111	20	UD	90.8		
cis-1,3-Dichloropropene	10061-01-5	111	20	UD	90.8		
1,1,2-Trichloroethane	79-00-5	133.4	20	UD	109		

Project : Air 81323.07 Karta

Sampling Date : 08/23/17

Field Id Number : SV-13DL

Analysis Date : 08/29/17

Laboratory Id Number : I4984-06DL

Target Analyts : Air Results

Dibromochloromethane	124-48-1	208.3	20	UD	170		
1,2-Dibromoethane	106-93-4	187.9	20	UD	153		
Tetrachloroethene	127-18-4	165.8	1.2	UD	8.14		
Chlorobenzene	108-90-7	112.6	20	UD	92.1		
Ethyl Benzene	100-41-4	106.2	20	UD	86.9		
m/p-Xylene	179601-23-1	106.2	12.4	JD	53.9		
o-Xylene	95-47-6	106.2	20	UD	86.9		
Styrene	100-42-5	104.1	20	UD	85.2		
Bromoform	75-25-2	252.8	20	UD	206		
1,1,2,2-Tetrachloroethane	79-34-5	167.9	20	UD	137		
2-Chlorotoluene	95-49-8	126.6	20	UD	103		
1,3,5-Trimethylbenzene	108-67-8	120.2	20	UD	98.3		
1,2,4-Trimethylbenzene	95-63-6	120.2	20	UD	98.3		
1,3-Dichlorobenzene	541-73-1	147	20	UD	120		
1,4-Dichlorobenzene	106-46-7	147	20	UD	120		
1,2-Dichlorobenzene	95-50-1	147	20	UD	120		
1,2,4-Trichlorobenzene	120-82-1	181.5	20	UD	148		
Hexachloro-1,3-Butadiene	87-68-3	260.8	20	UD	213		
Naphthalene	91-20-3	128.17	20	UD	104		
1,3-Butadiene	106-99-0	54.09	20	UD	44.2		
4-Ethyltoluene	622-96-8	120.2	20	UD	98.3		
Hexane	110-54-3	86.17	36	D	126		
Allyl Chloride	107-05-1	76.53	20	UD	62.6		
1,4-Dioxane	123-91-1	88.12	20	UD	72.1		
Methyl Methacrylate	80-62-6	100.117	20	UD	81.9		

Project : Air 81323.07 Karta

Sampling Date : 08/23/17

Field Id Number : SV-14

Analysis Date : 08/28/17

Laboratory Id Number : I4984-07

Target Analyts : Air Results

Chemical	Cas Number	Molecular Weight	Insert Results in PPBV	Qualifier	Generate Results in ug/m3	QAS Decision	Foot Notes
Dichlorodifluoromethane	75-71-8	120.9	5	U	24.7		
Chloromethane	74-87-3	50.49	5	U	10.3		
Vinyl Chloride	75-01-4	62.5	0.3	U	0.77		
Bromomethane	74-83-9	94.94	5	U	19.4		
Chloroethane	75-00-3	64.52	5	U	13.2		
Tetrahydrofuran	109-99-9	72.11	430	E	1268		
Trichlorofluoromethane	75-69-4	137.4	4.3	J	24.2		
Dichlorotetrafluoroethane	76-14-2	170.9	5	U	35.0		
1,1,2-Trichlorotrifluoroethane	76-13-1	187.4	5	U	38.3		
Bromoethene	593-60-2	106.9	5	U	21.9		
tert-Butyl alcohol	75-65-0	74.12	5	U	15.2		
Heptane	142-82-5	100.2	11.5		47.1		
1,1-Dichloroethene	75-35-4	96.94	5	U	19.8		
Acetone	67-64-1	58.08	60.8		144		
Carbon Disulfide	75-15-0	76.14	5	U	15.6		
Methyl tert-Butyl Ether	1634-04-4	88.15	5	U	18.0		
Methylene Chloride	75-09-2	84.94	4.8	J	16.7		
trans-1,2-Dichloroethene	156-60-5	96.94	5	U	19.8		
1,1-Dichloroethane	75-34-3	98.96	5	U	20.2		
Cyclohexane	110-82-7	84.16	16.6		57.1		
2-Butanone	78-93-3	72.11	130		383		
Carbon Tetrachloride	56-23-5	153.8	0.3	U	1.89		
cis-1,2-Dichloroethene	156-59-2	96.94	5	U	19.8		
Chloroform	67-66-3	119.4	5	U	24.4		
1,1,1-Trichloroethane	71-55-6	133.4	0.3	U	1.64		
2,2,4-Trimethylpentane	540-84-1	114.2	25.1		117		
Benzene	71-43-2	78.11	16.6		53.0		
1,2-Dichloroethane	107-06-2	98.96	5	U	20.2		
Trichloroethene	79-01-6	131.4	0.3	U	1.61		
1,2-Dichloropropane	78-87-5	113	5	U	23.1		
Bromodichloromethane	75-27-4	163.8	5	U	33.5		
4-Methyl-2-Pentanone	108-10-1	100.2	5	U	20.5		
Toluene	108-88-3	92.14	56		211		
t-1,3-Dichloropropene	10061-02-6	111	5	U	22.7		
cis-1,3-Dichloropropene	10061-01-5	111	5	U	22.7		
1,1,2-Trichloroethane	79-00-5	133.4	5	U	27.3		

Project : Air 81323.07 Karta

Sampling Date : 08/23/17

Field Id Number : SV-14

Analysis Date : 08/28/17

Laboratory Id Number : I4984-07

Target Analyts : Air Results

Dibromochloromethane	124-48-1	208.3	5	U	42.6		
1,2-Dibromoethane	106-93-4	187.9	5	U	38.4		
Tetrachloroethene	127-18-4	165.8	0.3	U	2.03		
Chlorobenzene	108-90-7	112.6	5	U	23.0		
Ethyl Benzene	100-41-4	106.2	4.8	J	20.8		
m/p-Xylene	179601-23-1	106.2	14.5		63.0		
o-Xylene	95-47-6	106.2	5.4		23.5		
Styrene	100-42-5	104.1	5	U	21.3		
Bromoform	75-25-2	252.8	5	U	51.7		
1,1,2,2-Tetrachloroethane	79-34-5	167.9	5	U	34.3		
2-Chlorotoluene	95-49-8	126.6	5	U	25.9		
1,3,5-Trimethylbenzene	108-67-8	120.2	5	U	24.6		
1,2,4-Trimethylbenzene	95-63-6	120.2	2.7	J	13.3		
1,3-Dichlorobenzene	541-73-1	147	5	U	30.1		
1,4-Dichlorobenzene	106-46-7	147	5	U	30.1		
1,2-Dichlorobenzene	95-50-1	147	5	U	30.1		
1,2,4-Trichlorobenzene	120-82-1	181.5	5	U	37.1		
Hexachloro-1,3-Butadiene	87-68-3	260.8	5	U	53.3		
Naphthalene	91-20-3	128.17	5	U	26.2		
1,3-Butadiene	106-99-0	54.09	5	U	11.1		
4-Ethyltoluene	622-96-8	120.2	1	J	4.92		
Hexane	110-54-3	86.17	51.6		181		
Allyl Chloride	107-05-1	76.53	5	U	15.6		
1,4-Dioxane	123-91-1	88.12	5	U	18.0		
Methyl Methacrylate	80-62-6	100.117	5	U	20.5		

Project : Air 81323.07 Karta

Sampling Date : 08/23/17

Field Id Number : SV-14DL

Analysis Date : 08/30/17

Laboratory Id Number : I4984-07DL

Target Analyts : Air Results

Chemical	Cas Number	Molecular Weight	Insert Results in PPBV	Qualifier	Generate Results in ug/m3	QAS Decision	Foot Notes
Dichlorodifluoromethane	75-71-8	120.9	50	UD	247		
Chloromethane	74-87-3	50.49	50	UD	103		
Vinyl Chloride	75-01-4	62.5	3	UD	7.67		
Bromomethane	74-83-9	94.94	50	UD	194		
Chloroethane	75-00-3	64.52	50	UD	131		
Tetrahydrofuran	109-99-9	72.11	400	D	1179		
Trichlorofluoromethane	75-69-4	137.4	50	UD	280		
Dichlorotetrafluoroethane	76-14-2	170.9	50	UD	349		
1,1,2-Trichlorotrifluoroethane	76-13-1	187.4	50	UD	383		
Bromoethene	593-60-2	106.9	50	UD	218		
tert-Butyl alcohol	75-65-0	74.12	50	UD	151		
Heptane	142-82-5	100.2	50	UD	204		
1,1-Dichloroethene	75-35-4	96.94	50	UD	198		
Acetone	67-64-1	58.08	100	D	237		
Carbon Disulfide	75-15-0	76.14	50	UD	155		
Methyl tert-Butyl Ether	1634-04-4	88.15	50	UD	180		
Methylene Chloride	75-09-2	84.94	50	UD	173		
trans-1,2-Dichloroethene	156-60-5	96.94	50	UD	198		
1,1-Dichloroethane	75-34-3	98.96	50	UD	202		
Cyclohexane	110-82-7	84.16	50	UD	172		
2-Butanone	78-93-3	72.11	120	D	353		
Carbon Tetrachloride	56-23-5	153.8	3	UD	18.9		
cis-1,2-Dichloroethene	156-59-2	96.94	50	UD	198		
Chloroform	67-66-3	119.4	50	UD	244		
1,1,1-Trichloroethane	71-55-6	133.4	3	UD	16.4		
2,2,4-Trimethylpentane	540-84-1	114.2	50	UD	233		
Benzene	71-43-2	78.11	50	UD	159		
1,2-Dichloroethane	107-06-2	98.96	50	UD	202		
Trichloroethene	79-01-6	131.4	3	UD	16.1		
1,2-Dichloropropane	78-87-5	113	50	UD	231		
Bromodichloromethane	75-27-4	163.8	50	UD	334		
4-Methyl-2-Pentanone	108-10-1	100.2	50	UD	204		
Toluene	108-88-3	92.14	38	JD	143		
t-1,3-Dichloropropene	10061-02-6	111	50	UD	226		
cis-1,3-Dichloropropene	10061-01-5	111	50	UD	226		
1,1,2-Trichloroethane	79-00-5	133.4	50	UD	272		

Project : Air 81323.07 Karta

Sampling Date : 08/23/17

Field Id Number : SV-14DL

Analysis Date : 08/30/17

Laboratory Id Number : I4984-07DL

Target Analyts : Air Results

Dibromochloromethane	124-48-1	208.3	50	UD	425		
1,2-Dibromoethane	106-93-4	187.9	50	UD	384		
Tetrachloroethene	127-18-4	165.8	3	UD	20.3		
Chlorobenzene	108-90-7	112.6	50	UD	230		
Ethyl Benzene	100-41-4	106.2	50	UD	217		
m/p-Xylene	179601-23-1	106.2	100	UD	434		
o-Xylene	95-47-6	106.2	50	UD	217		
Styrene	100-42-5	104.1	50	UD	212		
Bromoform	75-25-2	252.8	50	UD	516		
1,1,2,2-Tetrachloroethane	79-34-5	167.9	50	UD	343		
2-Chlorotoluene	95-49-8	126.6	50	UD	258		
1,3,5-Trimethylbenzene	108-67-8	120.2	50	UD	245		
1,2,4-Trimethylbenzene	95-63-6	120.2	50	UD	245		
1,3-Dichlorobenzene	541-73-1	147	50	UD	300		
1,4-Dichlorobenzene	106-46-7	147	50	UD	300		
1,2-Dichlorobenzene	95-50-1	147	50	UD	300		
1,2,4-Trichlorobenzene	120-82-1	181.5	50	UD	371		
Hexachloro-1,3-Butadiene	87-68-3	260.8	50	UD	533		
Naphthalene	91-20-3	128.17	50	UD	262		
1,3-Butadiene	106-99-0	54.09	50	UD	110		
4-Ethyltoluene	622-96-8	120.2	50	UD	245		
Hexane	110-54-3	86.17	50	UD	176		
Allyl Chloride	107-05-1	76.53	50	UD	156		
1,4-Dioxane	123-91-1	88.12	50	UD	180		
Methyl Methacrylate	80-62-6	100.117	50	UD	204		

Project : Air 81323.07 Karta**Field Id Number :** SV-14DL**Laboratory Id Number :** I4984-07DL**Sampling Date :** 08/23/17**Analysis Date :** 08/30/17**Target Analyts :** Air Results

Method	Matrix	CAS #	Compound Name	Molecular Wt	ppbv MDL	LOD ppbv	LOQ ppbv	ug/m3 MDL	LOD ug/m3	LOQ ug/m3
TO-15	Air	71-55-6	1,1,1-Trichloroethane	133	0.04	0.04	0.5	0.22	0.22	2.72
TO-15	Air	79-34-5	1,1,2,2-Tetrachloroethane	168	0.10	0.1	0.5	0.69	0.69	3.44
TO-15	Air	79-00-5	1,1,2-Trichloroethane	133	0.08	0.1	0.5	0.44	0.54	2.72
TO-15	Air	76-13-1	1,1,2-Trichlorotrifluoroethane	187	0.04	0.1	0.5	0.32	0.76	3.82
TO-15	Air	75-34-3	1,1-Dichloroethane	99	0.04	0.1	0.5	0.16	0.40	2.02
TO-15	Air	75-35-4	1,1-Dichloroethene	97	0.05	0.1	0.5	0.20	0.40	1.98
TO-15	Air	120-82-1	1,2,4-Trichlorobenzene	181	0.04	0.1	0.5	0.29	0.74	3.70
TO-15	Air	95-63-6	1,2,4-Trimethylbenzene	120	0.10	0.1	0.5	0.50	0.49	2.45
TO-15	Air	106-93-4	1,2-Dibromoethane	188	0.07	0.1	0.5	0.55	0.77	3.84
TO-15	Air	95-50-1	1,2-Dichlorobenzene	147	0.07	0.1	0.5	0.41	0.60	3.01
TO-15	Air	107-06-2	1,2-Dichloroethane	99	0.07	0.1	0.5	0.28	0.40	2.02
TO-15	Air	78-87-5	1,2-Dichloropropane	113	0.06	0.1	0.5	0.30	0.46	2.31
TO-15	Air	108-67-8	1,3,5-Trimethylbenzene	120	0.09	0.1	0.5	0.44	0.49	2.45
TO-15	Air	106-99-0	1,3-Butadiene	54	0.09	0.1	0.5	0.20	0.22	1.10
TO-15	Air	541-73-1	1,3-Dichlorobenzene	147	0.08	0.1	0.5	0.46	0.60	3.01
TO-15	Air	106-46-7	1,4-Dichlorobenzene	147	0.06	0.1	0.5	0.35	0.60	3.01
TO-15	Air	123-91-1	1,4-Dioxane	88	0.09	0.1	0.5	0.32	0.36	1.80
TO-15	Air	540-84-1	2,2,4-Trimethylpentane	114	0.04	0.1	0.5	0.21	0.47	2.33
TO-15	Air	78-93-3	2-Butanone	72	0.10	0.1	0.5	0.29	0.29	1.47
TO-15	Air	95-49-8	2-Chlorotoluene	126.6	0.10	0.1	0.5	0.52	0.52	2.59
TO-15	Air	591-78-6	2-Hexanone	100	0.08	0.1	0.5	0.33	0.41	2.04
TO-15	Air	622-96-8	4-Ethyltoluene	120	0.08	0.1	0.5	0.38	0.49	2.45
TO-15	Air	108-10-1	4-Methyl-2-Pentanone	100	0.06	0.1	0.5	0.24	0.41	2.04
TO-15	Air	67-64-1	Acetone	58	0.10	0.1	0.5	0.24	0.24	1.19
TO-15	Air	107-05-1	Allyl Chloride	77	0.05	0.1	0.5	0.16	0.31	1.57
TO-15	Air	71-43-2	Benzene	78	0.04	0.1	0.5	0.12	0.32	1.60
TO-15	Air	100-44-7	Benzyl Chloride	141	0.06	0.1	0.5	0.37	0.58	2.88
TO-15	Air	75-27-4	Bromodichloromethane	164	0.05	0.1	0.5	0.33	0.67	3.35
TO-15	Air	593-60-2	Bromoethene	107	0.03	0.1	0.5	0.14	0.44	2.19
TO-15	Air	75-25-2	Bromoform	253	0.05	0.1	0.5	0.49	1.03	5.17
TO-15	Air	74-83-9	Bromomethane	95	0.03	0.1	0.5	0.12	0.39	1.94
TO-15	Air	75-15-0	Carbon Disulfide	76	0.05	0.1	0.5	0.14	0.31	1.55
TO-15	Air	56-23-5	Carbon Tetrachloride	154	0.04	0.04	0.5	0.25	0.25	3.15
TO-15	Air	108-90-7	Chlorobenzene	113	0.09	0.1	0.5	0.40	0.46	2.31
TO-15	Air	75-00-3	Chloroethane	65	0.07	0.1	0.5	0.18	0.27	1.33
TO-15	Air	67-66-3	Chloroform	119	0.02	0.1	0.5	0.08	0.49	2.43
TO-15	Air	74-87-3	Chloromethane	50	0.06	0.1	0.5	0.12	0.20	1.02
TO-15	Air	156-59-2	cis-1,2-Dichloroethene	97	0.06	0.1	0.5	0.22	0.40	1.98
TO-15	Air	10061-01-5	cis-1,3-Dichloropropene	111	0.06	0.1	0.5	0.29	0.45	2.27
TO-15	Air	110-82-7	Cyclohexane	82	0.08	0.1	0.5	0.28	0.34	1.68
TO-15	Air	124-48-1	Dibromochloromethane	208	0.05	0.1	0.5	0.43	0.85	4.25
TO-15	Air	75-71-8	Dichlorodifluoromethane	121	0.04	0.1	0.5	0.18	0.49	2.47
TO-15	Air	76-14-2	Dichlorotetrafluoroethane	171	0.04	0.1	0.5	0.27	0.70	3.50
TO-15	Air	64-17-5	Ethanol	46.1	0.10	0.1	0.5	0.19	0.19	0.94
TO-15	Air	141-78-6	Ethyl Acetate	88	0.06	0.1	0.5	0.23	0.36	1.80
TO-15	Air	100-41-4	Ethyl Benzene	106	0.08	0.1	0.5	0.35	0.43	2.17
TO-15	Air	142-82-5	Heptane	100	0.06	0.1	0.5	0.25	0.41	2.04
TO-15	Air	87-68-3	Hexachloro-1,3-Butadiene	261	0.08	0.1	0.5	0.82	1.07	5.34
TO-15	Air	110-54-3	Hexane	86	0.04	0.1	0.5	0.15	0.35	1.76
TO-15	Air	67-63-0	Isopropyl Alcohol	60	0.10	0.1	0.5	0.25	0.25	1.23
TO-15	Air	136777-61-2	m/p-Xylene	106	0.10	0.1	0.5	0.43	0.43	2.17
TO-15	Air	80-62-6	Methyl methacrylate	100.1	0.10	0.1	0.5	0.41	0.41	2.05
TO-15	Air	1634-04-4	Methyl tert-Butyl Ether	88	0.05	0.1	0.5	0.19	0.36	1.80
TO-15	Air	75-09-2	Methylene Chloride	85	0.05	0.1	0.5	0.16	0.35	1.74
TO-15	Air	95-47-6	o-Xylene	106	0.07	0.1	0.5	0.29	0.43	2.17
TO-15	Air	115-07-1	Propene	42	0.10	0.1	0.5	0.18	0.18	0.86
TO-15	Air	100-42-5	Styrene	104	0.07	0.1	0.5	0.29	0.43	2.13
TO-15	Air	10061-02-6	t-1,3-Dichloropropene	111	0.07	0.1	0.5	0.30	0.45	2.27
TO-15	Air	27975-78-6	tert-butyl alcohol	74.1	0.10	0.1	0.5	0.30	0.30	1.52
TO-15	Air	127-18-4	Tetrachloroethene	166	0.03	0.03	0.5	0.20	0.20	3.39
TO-15	Air	109-99-9	Tetrahydrofuran	72	0.08	0.1	0.5	0.23	0.29	1.47
TO-15	Air	108-88-3	Toluene	92	0.05	0.1	0.5	0.20	0.38	1.88
TO-15	Air	156-60-5	trans-1,2-Dichloroethene	97	0.06	0.1	0.5	0.24	0.40	1.98
TO-15	Air	79-01-6	Trichloroethene	131	0.04	0.04	0.5	0.21	0.21	2.68
TO-15	Air	75-69-4	Trichlorofluoromethane	137	0.04	0.1	0.5	0.22	0.56	2.80
TO-15	Air	108-05-4	Vinyl Acetate	86	0.1	0.1	0.5	0.35	0.35	1.76
TO-15	Air	75-01-4	Vinyl Chloride	62.5	0.066	0.07	0.5	0.17	0.17	1.28
TO-15	Air	91-20-3	Naphthalene	128.17	0.04	0.25	0.5	0.21	1.31	2.62

SAMPLE DATA

Report of Analysis

Client:	Chazen Companies	Date Collected:	08/23/17
Project:	Air 81323.07 Karta	Date Received:	08/25/17
Client Sample ID:	SV-09	SDG No.:	I4984
Lab Sample ID:	I4984-01	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400	Units:	mL

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL030713.D	10		08/28/17 13:04	VL082817

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS								
75-71-8	Dichlorodifluoromethane	5	24.7	U	1.98	4.94	24.7	ug/m3
74-87-3	Chloromethane	5	10.3	U	0.35	2.07	10.3	ug/m3
75-01-4	Vinyl Chloride	0.3	0.77	U	0.38	0.77	0.77	ug/m3
74-83-9	Bromomethane	5	19.4	U	0.7	3.88	19.4	ug/m3
75-00-3	Chloroethane	5	13.2	U	0.82	2.64	13.2	ug/m3
109-99-9	Tetrahydrofuran	290	855	E	0.88	2.95	14.8	ug/m3
75-69-4	Trichlorofluoromethane	5	28.1	U	1.35	5.62	28.1	ug/m3
76-13-1	1,1,2-Trichlorotrifluoroethane	5	38.3	U	1.15	7.66	38.3	ug/m3
76-14-2	Dichlorotetrafluoroethane	5	35.0	U	1.19	6.99	35.0	ug/m3
593-60-2	Bromoethene	5	21.9	U	1.14	4.37	21.9	ug/m3
75-65-0	tert-Butyl alcohol	10.9	33.0		1.3	3.03	15.2	ug/m3
142-82-5	Heptane	4.5	18.4	J	0.98	4.1	20.5	ug/m3
75-35-4	1,1-Dichloroethene	5	19.8	U	0.67	3.96	19.8	ug/m3
67-64-1	Acetone	63.3	150		0.29	2.38	11.9	ug/m3
75-15-0	Carbon Disulfide	2.7	8.41	J	0.75	3.11	15.6	ug/m3
1634-04-4	Methyl tert-Butyl Ether	5	18.0	U	0.54	3.61	18.0	ug/m3
75-09-2	Methylene Chloride	8.4	29.2	B	0.59	3.47	17.4	ug/m3
156-60-5	trans-1,2-Dichloroethene	5	19.8	U	0.67	3.96	19.8	ug/m3
75-34-3	1,1-Dichloroethane	5	20.2	U	0.49	4.05	20.2	ug/m3
110-82-7	Cyclohexane	6.3	21.7		0.83	3.44	17.2	ug/m3
78-93-3	2-Butanone	110	324		0.65	2.95	14.8	ug/m3
56-23-5	Carbon Tetrachloride	0.3	1.89	U	0.94	1.89	1.89	ug/m3
156-59-2	cis-1,2-Dichloroethene	5	19.8	U	0.71	3.96	19.8	ug/m3
67-66-3	Chloroform	5	24.4	U	0.73	4.88	24.4	ug/m3
71-55-6	1,1,1-Trichloroethane	0.3	1.64	U	0.65	1.64	1.64	ug/m3
540-84-1	2,2,4-Trimethylpentane	9.9	46.2		1.03	4.67	23.4	ug/m3
71-43-2	Benzene	10.4	33.2		0.54	3.19	16.0	ug/m3
107-06-2	1,2-Dichloroethane	5	20.2	U	0.61	4.05	20.2	ug/m3
79-01-6	Trichloroethene	0.3	1.61	U	0.81	1.61	1.61	ug/m3
78-87-5	1,2-Dichloropropane	5	23.1	U	3.93	4.62	23.1	ug/m3
75-27-4	Bromodichloromethane	5	33.5	U	1.14	6.7	33.5	ug/m3
108-10-1	4-Methyl-2-Pentanone	5	20.5	U	0.9	4.1	20.5	ug/m3
108-88-3	Toluene	37.9	142		0.45	3.77	18.8	ug/m3
10061-02-6	t-1,3-Dichloropropene	5	22.7	U	1.09	4.54	22.7	ug/m3
10061-01-5	cis-1,3-Dichloropropene	5	22.7	U	0.68	4.54	22.7	ug/m3
79-00-5	1,1,2-Trichloroethane	5	27.3	U	1.2	5.46	27.3	ug/m3
124-48-1	Dibromochloromethane	5	42.6	U	1.02	8.52	42.6	ug/m3
106-93-4	1,2-Dibromoethane	5	38.4	U	1.15	7.69	38.4	ug/m3

Report of Analysis

Client:	Chazen Companies	Date Collected:	08/23/17
Project:	Air 81323.07 Karta	Date Received:	08/25/17
Client Sample ID:	SV-09	SDG No.:	I4984
Lab Sample ID:	I4984-01	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400	Units:	mL

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL030713.D	10		08/28/17 13:04	VL082817

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOD	LOQ / CRQL	Units
127-18-4	Tetrachloroethene	6.6	44.8		1.15	2.03	2.03	ug/m3
108-90-7	Chlorobenzene	5	23.0	U	0.69	4.61	23.0	ug/m3
100-41-4	Ethyl Benzene	4.5	19.6	J	0.74	4.34	21.7	ug/m3
179601-23-1	m/p-Xylene	13.5	58.6		1.35	8.69	43.4	ug/m3
95-47-6	o-Xylene	5.3	23.0		0.74	4.34	21.7	ug/m3
100-42-5	Styrene	3.6	15.3	J	0.51	4.26	21.3	ug/m3
75-25-2	Bromoform	5	51.7	U	1.24	10.3	51.7	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	5	34.3	U	1.17	6.87	34.3	ug/m3
95-49-8	2-Chlorotoluene	5	25.9	U	0.78	5.18	25.9	ug/m3
108-67-8	1,3,5-Trimethylbenzene	1.1	5.41	J	1.23	4.92	24.6	ug/m3
95-63-6	1,2,4-Trimethylbenzene	3.3	16.2	J	1.23	4.92	24.6	ug/m3
541-73-1	1,3-Dichlorobenzene	5	30.1	U	1.02	6.01	30.1	ug/m3
106-46-7	1,4-Dichlorobenzene	5	30.1	U	1.8	6.01	30.1	ug/m3
95-50-1	1,2-Dichlorobenzene	5	30.1	U	1.5	6.01	30.1	ug/m3
120-82-1	1,2,4-Trichlorobenzene	5	37.1	U	2.97	7.42	37.1	ug/m3
87-68-3	Hexachloro-1,3-Butadiene	5	53.3	U	3.31	10.7	53.3	ug/m3
106-99-0	1,3-Butadiene	5	11.1	U	0.49	2.21	11.1	ug/m3
91-20-3	Naphthalene	5	26.2	U	2.25	5.24	26.2	ug/m3
622-96-8	4-Ethyltoluene	5	24.6	U	0.74	4.92	24.6	ug/m3
110-54-3	Hexane	28.7	101		0.53	3.52	17.6	ug/m3
107-05-1	Allyl Chloride	5	15.6	U	1.1	3.13	15.6	ug/m3
123-91-1	1,4-Dioxane	5	18.0	U	3.53	14.4	18.0	ug/m3
80-62-6	Methyl Methacrylate	5	20.5	U	0.7	4.09	20.5	ug/m3
SURROGATES								
460-00-4	1-Bromo-4-Fluorobenzene	10.2			65 - 135		102%	SPK: 10
INTERNAL STANDARDS								
74-97-5	Bromochloromethane	1244130		5.96				
540-36-3	1,4-Difluorobenzene	2539170		7.5				
3114-55-4	Chlorobenzene-d5	2457150		12.47				

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

D = Dilution

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

Q = indicates LCS control criteria did not meet requirements

Report of Analysis

Client:	Chazen Companies	Date Collected:	08/23/17
Project:	Air 81323.07 Karta	Date Received:	08/25/17
Client Sample ID:	SV-09DL	SDG No.:	I4984
Lab Sample ID:	I4984-01DL	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400	Units:	mL

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL030732.D	40		08/29/17 01:22	VL082817

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS								
75-71-8	Dichlorodifluoromethane	20	98.9	UD	7.91	19.8	98.9	ug/m3
74-87-3	Chloromethane	20	41.3	UD	1.38	8.26	41.3	ug/m3
75-01-4	Vinyl Chloride	1.2	3.07	UD	1.56	3.07	3.07	ug/m3
74-83-9	Bromomethane	20	77.7	UD	2.8	15.5	77.7	ug/m3
75-00-3	Chloroethane	20	52.8	UD	3.17	10.6	52.8	ug/m3
109-99-9	Tetrahydrofuran	310	914	D	3.54	11.8	59.0	ug/m3
75-69-4	Trichlorofluoromethane	20	112	UD	5.34	22.5	112	ug/m3
76-13-1	1,1,2-Trichlorotrifluoroethane	20	153	UD	4.68	30.7	153	ug/m3
76-14-2	Dichlorotetrafluoroethane	20	139	UD	4.68	28.0	139	ug/m3
593-60-2	Bromoethene	20	87.4	UD	4.37	17.5	87.4	ug/m3
75-65-0	tert-Butyl alcohol	20	60.6	UD	5.15	12.1	60.6	ug/m3
142-82-5	Heptane	20	82.0	UD	3.89	16.4	82.0	ug/m3
75-35-4	1,1-Dichloroethene	20	79.3	UD	2.66	15.9	79.3	ug/m3
67-64-1	Acetone	98.4	233	D	1.14	9.5	47.5	ug/m3
75-15-0	Carbon Disulfide	20	62.3	UD	2.96	12.5	62.3	ug/m3
1634-04-4	Methyl tert-Butyl Ether	20	72.1	UD	2.2	14.4	72.1	ug/m3
75-09-2	Methylene Chloride	20	69.5	UD	2.33	13.9	69.5	ug/m3
156-60-5	trans-1,2-Dichloroethene	20	79.3	UD	2.66	15.9	79.3	ug/m3
75-34-3	1,1-Dichloroethane	20	81.0	UD	1.94	16.2	81.0	ug/m3
110-82-7	Cyclohexane	20	68.8	UD	3.27	13.8	68.8	ug/m3
78-93-3	2-Butanone	110	324	D	2.57	11.8	59.0	ug/m3
56-23-5	Carbon Tetrachloride	1.2	7.55	UD	3.84	7.55	7.55	ug/m3
156-59-2	cis-1,2-Dichloroethene	20	79.3	UD	2.85	15.9	79.3	ug/m3
67-66-3	Chloroform	20	97.7	UD	2.98	19.5	97.7	ug/m3
71-55-6	1,1,1-Trichloroethane	1.2	6.55	UD	2.62	6.55	6.55	ug/m3
540-84-1	2,2,4-Trimethylpentane	11.6	54.2	JD	4.06	18.7	93.4	ug/m3
71-43-2	Benzene	9.6	30.7	JD	2.14	12.8	63.9	ug/m3
107-06-2	1,2-Dichloroethane	20	81.0	UD	2.47	16.2	81.0	ug/m3
79-01-6	Trichloroethene	1.2	6.45	UD	3.28	6.45	6.45	ug/m3
78-87-5	1,2-Dichloropropane	20	92.4	UD	15.7	18.5	92.4	ug/m3
75-27-4	Bromodichloromethane	20	133	UD	4.49	26.8	133	ug/m3
108-10-1	4-Methyl-2-Pentanone	20	82.0	UD	3.57	16.4	82.0	ug/m3
108-88-3	Toluene	25.2	95.0	D	1.81	15.1	75.4	ug/m3
10061-02-6	t-1,3-Dichloropropene	20	90.8	UD	4.31	18.2	90.8	ug/m3
10061-01-5	cis-1,3-Dichloropropene	20	90.8	UD	2.77	18.2	90.8	ug/m3
79-00-5	1,1,2-Trichloroethane	20	109	UD	4.75	21.8	109	ug/m3
124-48-1	Dibromochloromethane	20	170	UD	4.09	34.1	170	ug/m3
106-93-4	1,2-Dibromoethane	20	153	UD	4.69	30.7	153	ug/m3

Report of Analysis

Client:	Chazen Companies	Date Collected:	08/23/17
Project:	Air 81323.07 Karta	Date Received:	08/25/17
Client Sample ID:	SV-09DL	SDG No.:	I4984
Lab Sample ID:	I4984-01DL	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400	Units:	mL

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL030732.D	40		08/29/17 01:22	VL082817

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOD	LOQ / CRQL	Units
127-18-4	Tetrachloroethene	8.8	59.7	D	4.54	8.14	8.14	ug/m3
108-90-7	Chlorobenzene	20	92.1	UD	2.81	18.4	92.1	ug/m3
100-41-4	Ethyl Benzene	20	86.9	UD	2.91	17.4	86.9	ug/m3
179601-23-1	m/p-Xylene	11.2	48.6	JD	5.21	34.8	173	ug/m3
95-47-6	o-Xylene	20	86.9	UD	2.91	17.4	86.9	ug/m3
100-42-5	Styrene	20	85.2	UD	2.04	17.0	85.2	ug/m3
75-25-2	Bromoform	20	206	UD	4.96	41.4	206	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	20	137	UD	4.6	27.5	137	ug/m3
95-49-8	2-Chlorotoluene	20	103	UD	3.16	20.7	103	ug/m3
108-67-8	1,3,5-Trimethylbenzene	20	98.3	UD	4.87	19.7	98.3	ug/m3
95-63-6	1,2,4-Trimethylbenzene	20	98.3	UD	4.87	19.7	98.3	ug/m3
541-73-1	1,3-Dichlorobenzene	20	120	UD	4.03	24.0	120	ug/m3
106-46-7	1,4-Dichlorobenzene	20	120	UD	7.21	24.0	120	ug/m3
95-50-1	1,2-Dichlorobenzene	20	120	UD	5.95	24.0	120	ug/m3
120-82-1	1,2,4-Trichlorobenzene	20	148	UD	11.9	29.7	148	ug/m3
87-68-3	Hexachloro-1,3-Butadiene	20	213	UD	12.8	42.7	213	ug/m3
106-99-0	1,3-Butadiene	20	44.2	UD	1.92	8.85	44.2	ug/m3
91-20-3	Naphthalene	20	104	UD	8.91	21.0	104	ug/m3
622-96-8	4-Ethyltoluene	20	98.3	UD	3	19.7	98.3	ug/m3
110-54-3	Hexane	31.2	109	D	2.15	14.1	70.5	ug/m3
107-05-1	Allyl Chloride	20	62.6	UD	4.38	12.5	62.6	ug/m3
123-91-1	1,4-Dioxane	20	72.1	UD	14.1	57.7	72.1	ug/m3
80-62-6	Methyl Methacrylate	20	81.9	UD	2.74	16.4	81.9	ug/m3
SURROGATES								
460-00-4	1-Bromo-4-Fluorobenzene	10.4			65 - 135		104%	SPK: 10
INTERNAL STANDARDS								
74-97-5	Bromochloromethane	972673		5.96				
540-36-3	1,4-Difluorobenzene	2029650		7.51				
3114-55-4	Chlorobenzene-d5	1931720		12.47				

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

D = Dilution

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

Q = indicates LCS control criteria did not meet requirements

Report of Analysis

Client:	Chazen Companies	Date Collected:	08/23/17
Project:	Air 81323.07 Karta	Date Received:	08/25/17
Client Sample ID:	SV-10	SDG No.:	I4984
Lab Sample ID:	I4984-02	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400	Units:	mL

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL030714.D	10		08/28/17 13:42	VL082817

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS								
75-71-8	Dichlorodifluoromethane	1.4	6.92	J	1.98	4.94	24.7	ug/m3
74-87-3	Chloromethane	5	10.3	U	0.35	2.07	10.3	ug/m3
75-01-4	Vinyl Chloride	0.3	0.77	U	0.38	0.77	0.77	ug/m3
74-83-9	Bromomethane	5	19.4	U	0.7	3.88	19.4	ug/m3
75-00-3	Chloroethane	5	13.2	U	0.82	2.64	13.2	ug/m3
109-99-9	Tetrahydrofuran	580	1710	E	0.88	2.95	14.8	ug/m3
75-69-4	Trichlorofluoromethane	20.4	114		1.35	5.62	28.1	ug/m3
76-13-1	1,1,2-Trichlorotrifluoroethane	5	38.3	U	1.15	7.66	38.3	ug/m3
76-14-2	Dichlorotetrafluoroethane	5	35.0	U	1.19	6.99	35.0	ug/m3
593-60-2	Bromoethene	5	21.9	U	1.14	4.37	21.9	ug/m3
75-65-0	tert-Butyl alcohol	5	15.2	U	1.3	3.03	15.2	ug/m3
142-82-5	Heptane	8.5	34.8		0.98	4.1	20.5	ug/m3
75-35-4	1,1-Dichloroethene	5	19.8	U	0.67	3.96	19.8	ug/m3
67-64-1	Acetone	140	332		0.29	2.38	11.9	ug/m3
75-15-0	Carbon Disulfide	5	15.6	U	0.75	3.11	15.6	ug/m3
1634-04-4	Methyl tert-Butyl Ether	5	18.0	U	0.54	3.61	18.0	ug/m3
75-09-2	Methylene Chloride	4.2	14.6	JB	0.59	3.47	17.4	ug/m3
156-60-5	trans-1,2-Dichloroethene	5	19.8	U	0.67	3.96	19.8	ug/m3
75-34-3	1,1-Dichloroethane	5	20.2	U	0.49	4.05	20.2	ug/m3
110-82-7	Cyclohexane	13.6	46.8		0.83	3.44	17.2	ug/m3
78-93-3	2-Butanone	270	796	E	0.65	2.95	14.8	ug/m3
56-23-5	Carbon Tetrachloride	0.3	1.89	U	0.94	1.89	1.89	ug/m3
156-59-2	cis-1,2-Dichloroethene	5	19.8	U	0.71	3.96	19.8	ug/m3
67-66-3	Chloroform	5	24.4	U	0.73	4.88	24.4	ug/m3
71-55-6	1,1,1-Trichloroethane	0.3	1.64	U	0.65	1.64	1.64	ug/m3
540-84-1	2,2,4-Trimethylpentane	30.2	141		1.03	4.67	23.4	ug/m3
71-43-2	Benzene	11	35.1		0.54	3.19	16.0	ug/m3
107-06-2	1,2-Dichloroethane	5	20.2	U	0.61	4.05	20.2	ug/m3
79-01-6	Trichloroethene	0.3	1.61	U	0.81	1.61	1.61	ug/m3
78-87-5	1,2-Dichloropropane	5	23.1	U	3.93	4.62	23.1	ug/m3
75-27-4	Bromodichloromethane	5	33.5	U	1.14	6.7	33.5	ug/m3
108-10-1	4-Methyl-2-Pentanone	5	20.5	U	0.9	4.1	20.5	ug/m3
108-88-3	Toluene	42.6	160		0.45	3.77	18.8	ug/m3
10061-02-6	t-1,3-Dichloropropene	5	22.7	U	1.09	4.54	22.7	ug/m3
10061-01-5	cis-1,3-Dichloropropene	5	22.7	U	0.68	4.54	22.7	ug/m3
79-00-5	1,1,2-Trichloroethane	5	27.3	U	1.2	5.46	27.3	ug/m3
124-48-1	Dibromochloromethane	5	42.6	U	1.02	8.52	42.6	ug/m3
106-93-4	1,2-Dibromoethane	5	38.4	U	1.15	7.69	38.4	ug/m3

Report of Analysis

Client:	Chazen Companies	Date Collected:	08/23/17
Project:	Air 81323.07 Karta	Date Received:	08/25/17
Client Sample ID:	SV-10	SDG No.:	I4984
Lab Sample ID:	I4984-02	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400	Units:	mL

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL030714.D	10		08/28/17 13:42	VL082817

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOD	LOQ / CRQL	Units
127-18-4	Tetrachloroethene	0.3	2.03	U	1.15	2.03	2.03	ug/m3
108-90-7	Chlorobenzene	5	23.0	U	0.69	4.61	23.0	ug/m3
100-41-4	Ethyl Benzene	4	17.4	J	0.74	4.34	21.7	ug/m3
179601-23-1	m/p-Xylene	10.3	44.7		1.35	8.69	43.4	ug/m3
95-47-6	o-Xylene	3.3	14.3	J	0.74	4.34	21.7	ug/m3
100-42-5	Styrene	5.4	23.0		0.51	4.26	21.3	ug/m3
75-25-2	Bromoform	5	51.7	U	1.24	10.3	51.7	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	5	34.3	U	1.17	6.87	34.3	ug/m3
95-49-8	2-Chlorotoluene	5	25.9	U	0.78	5.18	25.9	ug/m3
108-67-8	1,3,5-Trimethylbenzene	5	24.6	U	1.23	4.92	24.6	ug/m3
95-63-6	1,2,4-Trimethylbenzene	5	24.6	U	1.23	4.92	24.6	ug/m3
541-73-1	1,3-Dichlorobenzene	5	30.1	U	1.02	6.01	30.1	ug/m3
106-46-7	1,4-Dichlorobenzene	5	30.1	U	1.8	6.01	30.1	ug/m3
95-50-1	1,2-Dichlorobenzene	5	30.1	U	1.5	6.01	30.1	ug/m3
120-82-1	1,2,4-Trichlorobenzene	5	37.1	U	2.97	7.42	37.1	ug/m3
87-68-3	Hexachloro-1,3-Butadiene	5	53.3	U	3.31	10.7	53.3	ug/m3
106-99-0	1,3-Butadiene	5	11.1	U	0.49	2.21	11.1	ug/m3
91-20-3	Naphthalene	5	26.2	U	2.25	5.24	26.2	ug/m3
622-96-8	4-Ethyltoluene	5	24.6	U	0.74	4.92	24.6	ug/m3
110-54-3	Hexane	35.5	125		0.53	3.52	17.6	ug/m3
107-05-1	Allyl Chloride	5	15.6	U	1.1	3.13	15.6	ug/m3
123-91-1	1,4-Dioxane	5	18.0	U	3.53	14.4	18.0	ug/m3
80-62-6	Methyl Methacrylate	5	20.5	U	0.7	4.09	20.5	ug/m3
SURROGATES								
460-00-4	1-Bromo-4-Fluorobenzene	10.4			65 - 135		104%	SPK: 10
INTERNAL STANDARDS								
74-97-5	Bromochloromethane	1206810		5.96				
540-36-3	1,4-Difluorobenzene	2474010		7.51				
3114-55-4	Chlorobenzene-d5	2387490		12.47				

U = Not Detected

RL = Reporting Limit

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E = Value Exceeds Calibration Range

D = Dilution

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

Q = indicates LCS control criteria did not meet requirements

Report of Analysis

Client:	Chazen Companies	Date Collected:	08/23/17
Project:	Air 81323.07 Karta	Date Received:	08/25/17
Client Sample ID:	SV-10DL	SDG No.:	I4984
Lab Sample ID:	I4984-02DL	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400	Units:	mL

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL030742.D	100		08/30/17 15:24	VL083017

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS								
75-71-8	Dichlorodifluoromethane	50	247	UD	19.8	49.4	247	ug/m3
74-87-3	Chloromethane	50	103	UD	3.51	20.6	103	ug/m3
75-01-4	Vinyl Chloride	3	7.67	UD	3.83	7.67	7.67	ug/m3
74-83-9	Bromomethane	50	194	UD	6.99	38.8	194	ug/m3
75-00-3	Chloroethane	50	131	UD	8.18	26.4	131	ug/m3
109-99-9	Tetrahydrofuran	520	1533	D	8.85	29.5	147	ug/m3
75-69-4	Trichlorofluoromethane	20	112	JD	13.5	56.2	280	ug/m3
76-13-1	1,1,2-Trichlorotrifluoroethane	50	383	UD	11.5	76.6	383	ug/m3
76-14-2	Dichlorotetrafluoroethane	50	349	UD	11.9	69.9	349	ug/m3
593-60-2	Bromoethene	50	218	UD	11.4	43.7	218	ug/m3
75-65-0	tert-Butyl alcohol	50	151	UD	13.0	30.3	151	ug/m3
142-82-5	Heptane	50	204	UD	9.84	41.0	204	ug/m3
75-35-4	1,1-Dichloroethene	50	198	UD	6.74	39.6	198	ug/m3
67-64-1	Acetone	260	617	D	2.85	23.8	118	ug/m3
75-15-0	Carbon Disulfide	50	155	UD	7.47	31.1	155	ug/m3
1634-04-4	Methyl tert-Butyl Ether	50	180	UD	5.41	36.0	180	ug/m3
75-09-2	Methylene Chloride	50	173	UD	5.91	34.7	173	ug/m3
156-60-5	trans-1,2-Dichloroethene	50	198	UD	6.74	39.6	198	ug/m3
75-34-3	1,1-Dichloroethane	50	202	UD	4.86	40.5	202	ug/m3
110-82-7	Cyclohexane	50	172	UD	8.26	34.4	172	ug/m3
78-93-3	2-Butanone	230	678	D	6.49	29.5	147	ug/m3
56-23-5	Carbon Tetrachloride	3	18.9	UD	9.44	18.9	18.9	ug/m3
156-59-2	cis-1,2-Dichloroethene	50	198	UD	7.14	39.6	198	ug/m3
67-66-3	Chloroform	50	244	UD	7.33	48.8	244	ug/m3
71-55-6	1,1,1-Trichloroethane	3	16.4	UD	6.55	16.4	16.4	ug/m3
540-84-1	2,2,4-Trimethylpentane	50	233	UD	10.3	46.7	233	ug/m3
71-43-2	Benzene	50	159	UD	5.43	32.0	159	ug/m3
107-06-2	1,2-Dichloroethane	50	202	UD	6.07	40.5	202	ug/m3
79-01-6	Trichloroethene	3	16.1	UD	8.06	16.1	16.1	ug/m3
78-87-5	1,2-Dichloropropane	50	231	UD	39.3	46.2	231	ug/m3
75-27-4	Bromodichloromethane	50	334	UD	11.4	67.0	334	ug/m3
108-10-1	4-Methyl-2-Pentanone	50	204	UD	9.02	41.0	204	ug/m3
108-88-3	Toluene	27	101	JD	4.52	37.7	188	ug/m3
10061-02-6	t-1,3-Dichloropropene	50	226	UD	10.9	45.4	226	ug/m3
10061-01-5	cis-1,3-Dichloropropene	50	226	UD	6.81	45.4	226	ug/m3
79-00-5	1,1,2-Trichloroethane	50	272	UD	12	54.6	272	ug/m3
124-48-1	Dibromochloromethane	50	425	UD	10.2	85.2	425	ug/m3
106-93-4	1,2-Dibromoethane	50	384	UD	11.5	76.8	384	ug/m3

Report of Analysis

Client:	Chazen Companies	Date Collected:	08/23/17
Project:	Air 81323.07 Karta	Date Received:	08/25/17
Client Sample ID:	SV-10DL	SDG No.:	I4984
Lab Sample ID:	I4984-02DL	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400	Units:	mL

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL030742.D	100		08/30/17 15:24	VL083017

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOD	LOQ / CRQL	Units
127-18-4	Tetrachloroethene	3	20.3	UD	11.5	20.3	20.3	ug/m3
108-90-7	Chlorobenzene	50	230	UD	6.91	46.0	230	ug/m3
100-41-4	Ethyl Benzene	50	217	UD	7.38	43.4	217	ug/m3
179601-23-1	m/p-Xylene	100	434	UD	13.5	86.9	434	ug/m3
95-47-6	o-Xylene	50	217	UD	7.38	43.4	217	ug/m3
100-42-5	Styrene	50	212	UD	5.11	42.6	212	ug/m3
75-25-2	Bromoform	50	516	UD	12.4	103	516	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	50	343	UD	11.7	68.7	343	ug/m3
95-49-8	2-Chlorotoluene	50	258	UD	7.77	51.8	258	ug/m3
108-67-8	1,3,5-Trimethylbenzene	50	245	UD	12.3	49.2	245	ug/m3
95-63-6	1,2,4-Trimethylbenzene	50	245	UD	12.3	49.2	245	ug/m3
541-73-1	1,3-Dichlorobenzene	50	300	UD	10.2	60.1	300	ug/m3
106-46-7	1,4-Dichlorobenzene	50	300	UD	18.0	60.1	300	ug/m3
95-50-1	1,2-Dichlorobenzene	50	300	UD	15.0	60.1	300	ug/m3
120-82-1	1,2,4-Trichlorobenzene	50	371	UD	29.7	74.2	371	ug/m3
87-68-3	Hexachloro-1,3-Butadiene	50	533	UD	33.1	106	533	ug/m3
106-99-0	1,3-Butadiene	50	110	UD	4.87	22.1	110	ug/m3
91-20-3	Naphthalene	50	262	UD	22.5	52.4	262	ug/m3
622-96-8	4-Ethyltoluene	50	245	UD	7.37	49.2	245	ug/m3
110-54-3	Hexane	50	176	UD	5.29	35.2	176	ug/m3
107-05-1	Allyl Chloride	50	156	UD	11.0	31.3	156	ug/m3
123-91-1	1,4-Dioxane	50	180	UD	35.3	144	180	ug/m3
80-62-6	Methyl Methacrylate	50	204	UD	6.96	41.0	204	ug/m3
SURROGATES								
460-00-4	1-Bromo-4-Fluorobenzene	10.1			65 - 135		101%	SPK: 10
INTERNAL STANDARDS								
74-97-5	Bromochloromethane	1172630		5.96				
540-36-3	1,4-Difluorobenzene	2348250		7.5				
3114-55-4	Chlorobenzene-d5	2225920		12.48				

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

D = Dilution

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

Q = indicates LCS control criteria did not meet requirements

Report of Analysis

Client:	Chazen Companies	Date Collected:	08/23/17
Project:	Air 81323.07 Karta	Date Received:	08/25/17
Client Sample ID:	SV-11	SDG No.:	I4984
Lab Sample ID:	I4984-03	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400	Units:	mL

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL030715.D	10		08/28/17 14:21	VL082817

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS								
75-71-8	Dichlorodifluoromethane	1.7	8.41	J	1.98	4.94	24.7	ug/m3
74-87-3	Chloromethane	5	10.3	U	0.35	2.07	10.3	ug/m3
75-01-4	Vinyl Chloride	0.3	0.77	U	0.38	0.77	0.77	ug/m3
74-83-9	Bromomethane	5	19.4	U	0.7	3.88	19.4	ug/m3
75-00-3	Chloroethane	5	13.2	U	0.82	2.64	13.2	ug/m3
109-99-9	Tetrahydrofuran	170	501	E	0.88	2.95	14.8	ug/m3
75-69-4	Trichlorofluoromethane	9.6	54.0		1.35	5.62	28.1	ug/m3
76-13-1	1,1,2-Trichlorotrifluoroethane	5	38.3	U	1.15	7.66	38.3	ug/m3
76-14-2	Dichlorotetrafluoroethane	5	35.0	U	1.19	6.99	35.0	ug/m3
593-60-2	Bromoethene	5	21.9	U	1.14	4.37	21.9	ug/m3
75-65-0	tert-Butyl alcohol	5	15.2	U	1.3	3.03	15.2	ug/m3
142-82-5	Heptane	7.6	31.2		0.98	4.1	20.5	ug/m3
75-35-4	1,1-Dichloroethene	5	19.8	U	0.67	3.96	19.8	ug/m3
67-64-1	Acetone	45.2	107		0.29	2.38	11.9	ug/m3
75-15-0	Carbon Disulfide	21	65.4		0.75	3.11	15.6	ug/m3
1634-04-4	Methyl tert-Butyl Ether	5	18.0	U	0.54	3.61	18.0	ug/m3
75-09-2	Methylene Chloride	4.3	14.9	JB	0.59	3.47	17.4	ug/m3
156-60-5	trans-1,2-Dichloroethene	5	19.8	U	0.67	3.96	19.8	ug/m3
75-34-3	1,1-Dichloroethane	5	20.2	U	0.49	4.05	20.2	ug/m3
110-82-7	Cyclohexane	10	34.4		0.83	3.44	17.2	ug/m3
78-93-3	2-Butanone	52.2	153		0.65	2.95	14.8	ug/m3
56-23-5	Carbon Tetrachloride	0.3	1.89	U	0.94	1.89	1.89	ug/m3
156-59-2	cis-1,2-Dichloroethene	5	19.8	U	0.71	3.96	19.8	ug/m3
67-66-3	Chloroform	1.5	7.33	J	0.73	4.88	24.4	ug/m3
71-55-6	1,1,1-Trichloroethane	0.3	1.64	U	0.65	1.64	1.64	ug/m3
540-84-1	2,2,4-Trimethylpentane	12.6	58.8		1.03	4.67	23.4	ug/m3
71-43-2	Benzene	9.4	30.0		0.54	3.19	16.0	ug/m3
107-06-2	1,2-Dichloroethane	5	20.2	U	0.61	4.05	20.2	ug/m3
79-01-6	Trichloroethene	0.3	1.61	U	0.81	1.61	1.61	ug/m3
78-87-5	1,2-Dichloropropane	5	23.1	U	3.93	4.62	23.1	ug/m3
75-27-4	Bromodichloromethane	5	33.5	U	1.14	6.7	33.5	ug/m3
108-10-1	4-Methyl-2-Pentanone	5	20.5	U	0.9	4.1	20.5	ug/m3
108-88-3	Toluene	41.9	157		0.45	3.77	18.8	ug/m3
10061-02-6	t-1,3-Dichloropropene	5	22.7	U	1.09	4.54	22.7	ug/m3
10061-01-5	cis-1,3-Dichloropropene	5	22.7	U	0.68	4.54	22.7	ug/m3
79-00-5	1,1,2-Trichloroethane	5	27.3	U	1.2	5.46	27.3	ug/m3
124-48-1	Dibromochloromethane	5	42.6	U	1.02	8.52	42.6	ug/m3
106-93-4	1,2-Dibromoethane	5	38.4	U	1.15	7.69	38.4	ug/m3

Report of Analysis

Client:	Chazen Companies	Date Collected:	08/23/17
Project:	Air 81323.07 Karta	Date Received:	08/25/17
Client Sample ID:	SV-11	SDG No.:	I4984
Lab Sample ID:	I4984-03	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400	Units:	mL

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL030715.D	10		08/28/17 14:21	VL082817

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOD	LOQ / CRQL	Units
127-18-4	Tetrachloroethene	0.3	2.03	U	1.15	2.03	2.03	ug/m3
108-90-7	Chlorobenzene	5	23.0	U	0.69	4.61	23.0	ug/m3
100-41-4	Ethyl Benzene	6	26.1		0.74	4.34	21.7	ug/m3
179601-23-1	m/p-Xylene	18.1	78.6		1.35	8.69	43.4	ug/m3
95-47-6	o-Xylene	6.5	28.2		0.74	4.34	21.7	ug/m3
100-42-5	Styrene	6.4	27.2		0.51	4.26	21.3	ug/m3
75-25-2	Bromoform	5	51.7	U	1.24	10.3	51.7	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	5	34.3	U	1.17	6.87	34.3	ug/m3
95-49-8	2-Chlorotoluene	5	25.9	U	0.78	5.18	25.9	ug/m3
108-67-8	1,3,5-Trimethylbenzene	5	24.6	U	1.23	4.92	24.6	ug/m3
95-63-6	1,2,4-Trimethylbenzene	2.9	14.3	J	1.23	4.92	24.6	ug/m3
541-73-1	1,3-Dichlorobenzene	5	30.1	U	1.02	6.01	30.1	ug/m3
106-46-7	1,4-Dichlorobenzene	5	30.1	U	1.8	6.01	30.1	ug/m3
95-50-1	1,2-Dichlorobenzene	5	30.1	U	1.5	6.01	30.1	ug/m3
120-82-1	1,2,4-Trichlorobenzene	5	37.1	U	2.97	7.42	37.1	ug/m3
87-68-3	Hexachloro-1,3-Butadiene	5	53.3	U	3.31	10.7	53.3	ug/m3
106-99-0	1,3-Butadiene	5	11.1	U	0.49	2.21	11.1	ug/m3
91-20-3	Naphthalene	5	26.2	U	2.25	5.24	26.2	ug/m3
622-96-8	4-Ethyltoluene	1.3	6.39	J	0.74	4.92	24.6	ug/m3
110-54-3	Hexane	27.7	97.6		0.53	3.52	17.6	ug/m3
107-05-1	Allyl Chloride	5	15.6	U	1.1	3.13	15.6	ug/m3
123-91-1	1,4-Dioxane	5	18.0	U	3.53	14.4	18.0	ug/m3
80-62-6	Methyl Methacrylate	5	20.5	U	0.7	4.09	20.5	ug/m3
SURROGATES								
460-00-4	1-Bromo-4-Fluorobenzene	10.4			65 - 135		104%	SPK: 10
INTERNAL STANDARDS								
74-97-5	Bromochloromethane	1218800		5.96				
540-36-3	1,4-Difluorobenzene	2453180		7.5				
3114-55-4	Chlorobenzene-d5	2391770		12.47				

U = Not Detected

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B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

Q = indicates LCS control criteria did not meet requirements

Report of Analysis

Client:	Chazen Companies	Date Collected:	08/23/17
Project:	Air 81323.07 Karta	Date Received:	08/25/17
Client Sample ID:	SV-11DL	SDG No.:	I4984
Lab Sample ID:	I4984-03DL	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400	Units:	mL

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL030734.D	20		08/29/17 02:38	VL082817

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS								
75-71-8	Dichlorodifluoromethane	10	49.4	UD	3.96	9.89	49.4	ug/m3
74-87-3	Chloromethane	10	20.6	UD	0.7	4.13	20.6	ug/m3
75-01-4	Vinyl Chloride	0.6	1.53	UD	0.79	1.53	1.53	ug/m3
74-83-9	Bromomethane	10	38.8	UD	1.4	7.77	38.8	ug/m3
75-00-3	Chloroethane	10	26.4	UD	1.61	5.28	26.4	ug/m3
109-99-9	Tetrahydrofuran	180	530	D	1.77	5.9	29.5	ug/m3
75-69-4	Trichlorofluoromethane	11.2	62.9	D	2.7	11.2	56.2	ug/m3
76-13-1	1,1,2-Trichlorotrifluoroethane	10	76.6	UD	2.38	15.3	76.6	ug/m3
76-14-2	Dichlorotetrafluoroethane	10	69.9	UD	2.38	14.0	69.9	ug/m3
593-60-2	Bromoethene	10	43.7	UD	2.23	8.74	43.7	ug/m3
75-65-0	tert-Butyl alcohol	10	30.3	UD	2.64	6.06	30.3	ug/m3
142-82-5	Heptane	8.2	33.6	JD	1.97	8.2	41.0	ug/m3
75-35-4	1,1-Dichloroethene	10	39.6	UD	1.35	7.93	39.6	ug/m3
67-64-1	Acetone	55.6	132	D	0.57	4.75	23.8	ug/m3
75-15-0	Carbon Disulfide	22.6	70.4	D	1.49	6.23	31.1	ug/m3
1634-04-4	Methyl tert-Butyl Ether	10	36.0	UD	1.12	7.21	36.0	ug/m3
75-09-2	Methylene Chloride	10	34.7	UD	1.18	6.95	34.7	ug/m3
156-60-5	trans-1,2-Dichloroethene	10	39.6	UD	1.35	7.93	39.6	ug/m3
75-34-3	1,1-Dichloroethane	10	40.5	UD	0.97	8.09	40.5	ug/m3
110-82-7	Cyclohexane	10.8	37.2	D	1.65	6.88	34.4	ug/m3
78-93-3	2-Butanone	58	171	D	1.27	5.9	29.5	ug/m3
56-23-5	Carbon Tetrachloride	0.6	3.77	UD	1.95	3.77	3.77	ug/m3
156-59-2	cis-1,2-Dichloroethene	10	39.6	UD	1.43	7.93	39.6	ug/m3
67-66-3	Chloroform	10	48.8	UD	1.51	9.77	48.8	ug/m3
71-55-6	1,1,1-Trichloroethane	0.6	3.27	UD	1.31	3.27	3.27	ug/m3
540-84-1	2,2,4-Trimethylpentane	14	65.4	D	2.01	9.34	46.7	ug/m3
71-43-2	Benzene	9.8	31.3	JD	1.09	6.39	32.0	ug/m3
107-06-2	1,2-Dichloroethane	10	40.5	UD	1.25	8.09	40.5	ug/m3
79-01-6	Trichloroethene	0.6	3.22	UD	1.67	3.22	3.22	ug/m3
78-87-5	1,2-Dichloropropane	10	46.2	UD	7.86	9.24	46.2	ug/m3
75-27-4	Bromodichloromethane	10	67.0	UD	2.28	13.4	67.0	ug/m3
108-10-1	4-Methyl-2-Pentanone	10	41.0	UD	1.76	8.2	41.0	ug/m3
108-88-3	Toluene	46.2	174	D	0.9	7.54	37.7	ug/m3
10061-02-6	t-1,3-Dichloropropene	10	45.4	UD	2.18	9.08	45.4	ug/m3
10061-01-5	cis-1,3-Dichloropropene	10	45.4	UD	1.41	9.08	45.4	ug/m3
79-00-5	1,1,2-Trichloroethane	10	54.6	UD	2.35	10.9	54.6	ug/m3
124-48-1	Dibromochloromethane	10	85.2	UD	2.04	17.0	85.2	ug/m3
106-93-4	1,2-Dibromoethane	10	76.8	UD	2.38	15.4	76.8	ug/m3

Report of Analysis

Client:	Chazen Companies	Date Collected:	08/23/17
Project:	Air 81323.07 Karta	Date Received:	08/25/17
Client Sample ID:	SV-11DL	SDG No.:	I4984
Lab Sample ID:	I4984-03DL	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL030734.D	20		08/29/17 02:38	VL082817

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOD	LOQ / CRQL	Units
127-18-4	Tetrachloroethene	0.6	4.07	UD	2.31	4.07	4.07	ug/m3
108-90-7	Chlorobenzene	10	46.0	UD	1.43	9.21	46.0	ug/m3
100-41-4	Ethyl Benzene	5.6	24.3	JD	1.48	8.69	43.4	ug/m3
179601-23-1	m/p-Xylene	18.6	80.8	JD	2.65	17.4	86.9	ug/m3
95-47-6	o-Xylene	6.4	27.8	JD	1.48	8.69	43.4	ug/m3
100-42-5	Styrene	6	25.6	JD	1.02	8.52	42.6	ug/m3
75-25-2	Bromoform	10	103	UD	2.48	20.7	103	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	10	68.7	UD	2.33	13.7	68.7	ug/m3
95-49-8	2-Chlorotoluene	10	51.8	UD	1.61	10.4	51.8	ug/m3
108-67-8	1,3,5-Trimethylbenzene	10	49.2	UD	2.41	9.83	49.2	ug/m3
95-63-6	1,2,4-Trimethylbenzene	10	49.2	UD	2.41	9.83	49.2	ug/m3
541-73-1	1,3-Dichlorobenzene	10	60.1	UD	2.04	12.0	60.1	ug/m3
106-46-7	1,4-Dichlorobenzene	10	60.1	UD	3.61	12.0	60.1	ug/m3
95-50-1	1,2-Dichlorobenzene	10	60.1	UD	2.95	12.0	60.1	ug/m3
120-82-1	1,2,4-Trichlorobenzene	10	74.2	UD	5.94	14.8	74.2	ug/m3
87-68-3	Hexachloro-1,3-Butadiene	10	106	UD	6.51	21.3	106	ug/m3
106-99-0	1,3-Butadiene	10	22.1	UD	0.95	4.42	22.1	ug/m3
91-20-3	Naphthalene	10	52.4	UD	4.56	10.5	52.4	ug/m3
622-96-8	4-Ethyltoluene	10	49.2	UD	1.52	9.83	49.2	ug/m3
110-54-3	Hexane	30.4	107	D	1.09	7.05	35.2	ug/m3
107-05-1	Allyl Chloride	10	31.3	UD	2.19	6.26	31.3	ug/m3
123-91-1	1,4-Dioxane	10	36.0	UD	7.21	28.8	36.0	ug/m3
80-62-6	Methyl Methacrylate	10	41.0	UD	1.39	8.19	41.0	ug/m3
SURROGATES								
460-00-4	1-Bromo-4-Fluorobenzene	10.2			65 - 135		102%	SPK: 10
INTERNAL STANDARDS								
74-97-5	Bromochloromethane	990977		5.97				
540-36-3	1,4-Difluorobenzene	2047520		7.51				
3114-55-4	Chlorobenzene-d5	1955820		12.48				

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

D = Dilution

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

Q = indicates LCS control criteria did not meet requirements

Report of Analysis

Client:	Chazen Companies	Date Collected:	08/23/17
Project:	Air 81323.07 Karta	Date Received:	08/25/17
Client Sample ID:	SV-12	SDG No.:	I4984
Lab Sample ID:	I4984-04	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400	Units:	mL

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL030735.D	1		08/29/17 03:19	VL082817

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS								
75-71-8	Dichlorodifluoromethane	0.14	0.69	J	0.2	0.49	2.47	ug/m3
74-87-3	Chloromethane	0.45	0.93	J	0.04	0.21	1.03	ug/m3
75-01-4	Vinyl Chloride	0.03	0.08	U	0.05	0.08	0.08	ug/m3
74-83-9	Bromomethane	0.5	1.94	U	0.08	0.39	1.94	ug/m3
75-00-3	Chloroethane	0.5	1.32	U	0.08	0.26	1.32	ug/m3
109-99-9	Tetrahydrofuran	18.7	55.2	E	0.09	0.29	1.47	ug/m3
75-69-4	Trichlorofluoromethane	0.2	1.12	J	0.11	0.56	2.81	ug/m3
76-13-1	1,1,2-Trichlorotrifluoroethane	0.5	3.83	U	0.15	0.77	3.83	ug/m3
76-14-2	Dichlorotetrafluoroethane	0.5	3.49	U	0.14	0.7	3.49	ug/m3
593-60-2	Bromoethene	0.5	2.19	U	0.13	0.44	2.19	ug/m3
75-65-0	tert-Butyl alcohol	0.5	1.52	U	0.12	0.3	1.52	ug/m3
142-82-5	Heptane	1.3	5.33		0.08	0.41	2.05	ug/m3
75-35-4	1,1-Dichloroethene	0.5	1.98	U	0.08	0.4	1.98	ug/m3
67-64-1	Acetone	7.8	18.5		0.02	0.24	1.19	ug/m3
75-15-0	Carbon Disulfide	0.5	1.56	U	0.06	0.31	1.56	ug/m3
1634-04-4	Methyl tert-Butyl Ether	0.5	1.8	U	0.07	0.36	1.8	ug/m3
75-09-2	Methylene Chloride	0.96	3.34	B	0.07	0.35	1.74	ug/m3
156-60-5	trans-1,2-Dichloroethene	0.5	1.98	U	0.08	0.4	1.98	ug/m3
75-34-3	1,1-Dichloroethane	0.5	2.02	U	0.04	0.4	2.02	ug/m3
110-82-7	Cyclohexane	2.3	7.92		0.07	0.34	1.72	ug/m3
78-93-3	2-Butanone	9.8	28.9		0.06	0.29	1.47	ug/m3
56-23-5	Carbon Tetrachloride	0.07	0.44		0.13	0.19	0.19	ug/m3
156-59-2	cis-1,2-Dichloroethene	0.5	1.98	U	0.08	0.4	1.98	ug/m3
67-66-3	Chloroform	0.5	2.44	U	0.1	0.49	2.44	ug/m3
71-55-6	1,1,1-Trichloroethane	0.03	0.16	U	0.05	0.16	0.16	ug/m3
540-84-1	2,2,4-Trimethylpentane	1.9	8.87		0.09	0.47	2.34	ug/m3
71-43-2	Benzene	2.1	6.71		0.06	0.32	1.6	ug/m3
107-06-2	1,2-Dichloroethane	0.5	2.02	U	0.08	0.4	2.02	ug/m3
79-01-6	Trichloroethene	0.03	0.16	U	0.11	0.16	0.16	ug/m3
78-87-5	1,2-Dichloropropane	0.5	2.31	U	0.42	0.46	2.31	ug/m3
75-27-4	Bromodichloromethane	0.5	3.35	U	0.13	0.67	3.35	ug/m3
108-10-1	4-Methyl-2-Pentanone	0.5	2.05	U	0.08	0.41	2.05	ug/m3
108-88-3	Toluene	6	22.6		0.04	0.38	1.88	ug/m3
10061-02-6	t-1,3-Dichloropropene	0.5	2.27	U	0.09	0.45	2.27	ug/m3
10061-01-5	cis-1,3-Dichloropropene	0.5	2.27	U	0.09	0.45	2.27	ug/m3
79-00-5	1,1,2-Trichloroethane	0.5	2.73	U	0.11	0.55	2.73	ug/m3
124-48-1	Dibromochloromethane	0.5	4.26	U	0.09	0.85	4.26	ug/m3
106-93-4	1,2-Dibromoethane	0.5	3.84	U	0.15	0.77	3.84	ug/m3

Report of Analysis

Client:	Chazen Companies	Date Collected:	08/23/17
Project:	Air 81323.07 Karta	Date Received:	08/25/17
Client Sample ID:	SV-12	SDG No.:	I4984
Lab Sample ID:	I4984-04	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400	Units:	mL

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL030735.D	1		08/29/17 03:19	VL082817

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOD	LOQ / CRQL	Units
127-18-4	Tetrachloroethene	0.06	0.41		0.14	0.2	0.2	ug/m3
108-90-7	Chlorobenzene	0.5	2.3	U	0.09	0.46	2.3	ug/m3
100-41-4	Ethyl Benzene	0.57	2.48		0.09	0.43	2.17	ug/m3
179601-23-1	m/p-Xylene	1.4	6.08		0.13	0.87	4.34	ug/m3
95-47-6	o-Xylene	0.33	1.43	J	0.09	0.43	2.17	ug/m3
100-42-5	Styrene	0.98	4.17		0.04	0.43	2.13	ug/m3
75-25-2	Bromoform	0.5	5.17	U	0.1	1.03	5.17	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	0.5	3.43	U	0.14	0.69	3.43	ug/m3
95-49-8	2-Chlorotoluene	0.5	2.59	U	0.1	0.52	2.59	ug/m3
108-67-8	1,3,5-Trimethylbenzene	0.5	2.46	U	0.1	0.49	2.46	ug/m3
95-63-6	1,2,4-Trimethylbenzene	0.5	2.46	U	0.1	0.49	2.46	ug/m3
541-73-1	1,3-Dichlorobenzene	0.5	3.01	U	0.12	0.6	3.01	ug/m3
106-46-7	1,4-Dichlorobenzene	0.5	3.01	U	0.18	0.6	3.01	ug/m3
95-50-1	1,2-Dichlorobenzene	0.5	3.01	U	0.12	0.6	3.01	ug/m3
120-82-1	1,2,4-Trichlorobenzene	0.5	3.71	U	0.3	0.74	3.71	ug/m3
87-68-3	Hexachloro-1,3-Butadiene	0.5	5.33	U	0.32	1.07	5.33	ug/m3
106-99-0	1,3-Butadiene	0.5	1.11	U	0.04	0.22	1.11	ug/m3
91-20-3	Naphthalene	0.5	2.62	U	0.21	0.52	2.62	ug/m3
622-96-8	4-Ethyltoluene	0.5	2.46	U	0.1	0.49	2.46	ug/m3
110-54-3	Hexane	7.5	26.4		0.07	0.35	1.76	ug/m3
107-05-1	Allyl Chloride	0.5	1.57	U	0.13	0.31	1.57	ug/m3
123-91-1	1,4-Dioxane	0.5	1.8	U	0.36	1.44	1.8	ug/m3
80-62-6	Methyl Methacrylate	0.5	2.05	U	0.08	0.41	2.05	ug/m3
SURROGATES								
460-00-4	1-Bromo-4-Fluorobenzene	10.3			65 - 135		103%	SPK: 10
INTERNAL STANDARDS								
74-97-5	Bromochloromethane	999322			5.96			
540-36-3	1,4-Difluorobenzene	2086220			7.51			
3114-55-4	Chlorobenzene-d5	1899620			12.48			

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D = Dilution

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

Q = indicates LCS control criteria did not meet requirements

Report of Analysis

Client:	Chazen Companies	Date Collected:	08/23/17
Project:	Air 81323.07 Karta	Date Received:	08/25/17
Client Sample ID:	SV-12DL	SDG No.:	I4984
Lab Sample ID:	I4984-04DL	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400	Units:	mL

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL030716.D	10		08/28/17 15:00	VL082817

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS								
75-71-8	Dichlorodifluoromethane	5	24.7	UD	1.98	4.94	24.7	ug/m3
74-87-3	Chloromethane	5	10.3	UD	0.35	2.07	10.3	ug/m3
75-01-4	Vinyl Chloride	0.3	0.77	UD	0.38	0.77	0.77	ug/m3
74-83-9	Bromomethane	5	19.4	UD	0.7	3.88	19.4	ug/m3
75-00-3	Chloroethane	5	13.2	UD	0.82	2.64	13.2	ug/m3
109-99-9	Tetrahydrofuran	16.1	47.5	D	0.88	2.95	14.8	ug/m3
75-69-4	Trichlorofluoromethane	5	28.1	UD	1.35	5.62	28.1	ug/m3
76-13-1	1,1,2-Trichlorotrifluoroethane	5	38.3	UD	1.15	7.66	38.3	ug/m3
76-14-2	Dichlorotetrafluoroethane	5	35.0	UD	1.19	6.99	35.0	ug/m3
593-60-2	Bromoethene	5	21.9	UD	1.14	4.37	21.9	ug/m3
75-65-0	tert-Butyl alcohol	5	15.2	UD	1.3	3.03	15.2	ug/m3
142-82-5	Heptane	5	20.5	UD	0.98	4.1	20.5	ug/m3
75-35-4	1,1-Dichloroethene	5	19.8	UD	0.67	3.96	19.8	ug/m3
67-64-1	Acetone	5	11.9	UD	0.29	2.38	11.9	ug/m3
75-15-0	Carbon Disulfide	5	15.6	UD	0.75	3.11	15.6	ug/m3
1634-04-4	Methyl tert-Butyl Ether	5	18.0	UD	0.54	3.61	18.0	ug/m3
75-09-2	Methylene Chloride	5	17.4	UD	0.59	3.47	17.4	ug/m3
156-60-5	trans-1,2-Dichloroethene	5	19.8	UD	0.67	3.96	19.8	ug/m3
75-34-3	1,1-Dichloroethane	5	20.2	UD	0.49	4.05	20.2	ug/m3
110-82-7	Cyclohexane	2.1	7.23	JD	0.83	3.44	17.2	ug/m3
78-93-3	2-Butanone	8.8	26.0	D	0.65	2.95	14.8	ug/m3
56-23-5	Carbon Tetrachloride	0.3	1.89	UD	0.94	1.89	1.89	ug/m3
156-59-2	cis-1,2-Dichloroethene	5	19.8	UD	0.71	3.96	19.8	ug/m3
67-66-3	Chloroform	5	24.4	UD	0.73	4.88	24.4	ug/m3
71-55-6	1,1,1-Trichloroethane	0.3	1.64	UD	0.65	1.64	1.64	ug/m3
540-84-1	2,2,4-Trimethylpentane	1.9	8.87	JD	1.03	4.67	23.4	ug/m3
71-43-2	Benzene	1.7	5.43	JD	0.54	3.19	16.0	ug/m3
107-06-2	1,2-Dichloroethane	5	20.2	UD	0.61	4.05	20.2	ug/m3
79-01-6	Trichloroethene	0.3	1.61	UD	0.81	1.61	1.61	ug/m3
78-87-5	1,2-Dichloropropane	5	23.1	UD	3.93	4.62	23.1	ug/m3
75-27-4	Bromodichloromethane	5	33.5	UD	1.14	6.7	33.5	ug/m3
108-10-1	4-Methyl-2-Pentanone	5	20.5	UD	0.9	4.1	20.5	ug/m3
108-88-3	Toluene	4.7	17.7	JD	0.45	3.77	18.8	ug/m3
10061-02-6	t-1,3-Dichloropropene	5	22.7	UD	1.09	4.54	22.7	ug/m3
10061-01-5	cis-1,3-Dichloropropene	5	22.7	UD	0.68	4.54	22.7	ug/m3
79-00-5	1,1,2-Trichloroethane	5	27.3	UD	1.2	5.46	27.3	ug/m3
124-48-1	Dibromochloromethane	5	42.6	UD	1.02	8.52	42.6	ug/m3
106-93-4	1,2-Dibromoethane	5	38.4	UD	1.15	7.69	38.4	ug/m3

Report of Analysis

Client:	Chazen Companies	Date Collected:	08/23/17
Project:	Air 81323.07 Karta	Date Received:	08/25/17
Client Sample ID:	SV-12DL	SDG No.:	I4984
Lab Sample ID:	I4984-04DL	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400	Units:	mL

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL030716.D	10		08/28/17 15:00	VL082817

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOD	LOQ / CRQL	Units
127-18-4	Tetrachloroethene	0.3	2.03	UD	1.15	2.03	2.03	ug/m3
108-90-7	Chlorobenzene	5	23.0	UD	0.69	4.61	23.0	ug/m3
100-41-4	Ethyl Benzene	5	21.7	UD	0.74	4.34	21.7	ug/m3
179601-23-1	m/p-Xylene	10	43.4	UD	1.35	8.69	43.4	ug/m3
95-47-6	o-Xylene	5	21.7	UD	0.74	4.34	21.7	ug/m3
100-42-5	Styrene	5	21.3	UD	0.51	4.26	21.3	ug/m3
75-25-2	Bromoform	5	51.7	UD	1.24	10.3	51.7	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	5	34.3	UD	1.17	6.87	34.3	ug/m3
95-49-8	2-Chlorotoluene	5	25.9	UD	0.78	5.18	25.9	ug/m3
108-67-8	1,3,5-Trimethylbenzene	5	24.6	UD	1.23	4.92	24.6	ug/m3
95-63-6	1,2,4-Trimethylbenzene	5	24.6	UD	1.23	4.92	24.6	ug/m3
541-73-1	1,3-Dichlorobenzene	5	30.1	UD	1.02	6.01	30.1	ug/m3
106-46-7	1,4-Dichlorobenzene	5	30.1	UD	1.8	6.01	30.1	ug/m3
95-50-1	1,2-Dichlorobenzene	5	30.1	UD	1.5	6.01	30.1	ug/m3
120-82-1	1,2,4-Trichlorobenzene	5	37.1	UD	2.97	7.42	37.1	ug/m3
87-68-3	Hexachloro-1,3-Butadiene	5	53.3	UD	3.31	10.7	53.3	ug/m3
106-99-0	1,3-Butadiene	5	11.1	UD	0.49	2.21	11.1	ug/m3
91-20-3	Naphthalene	5	26.2	UD	2.25	5.24	26.2	ug/m3
622-96-8	4-Ethyltoluene	5	24.6	UD	0.74	4.92	24.6	ug/m3
110-54-3	Hexane	7.1	25.0	D	0.53	3.52	17.6	ug/m3
107-05-1	Allyl Chloride	5	15.6	UD	1.1	3.13	15.6	ug/m3
123-91-1	1,4-Dioxane	5	18.0	UD	3.53	14.4	18.0	ug/m3
80-62-6	Methyl Methacrylate	5	20.5	UD	0.7	4.09	20.5	ug/m3
SURROGATES								
460-00-4	1-Bromo-4-Fluorobenzene	10.2			65 - 135		102%	SPK: 10
INTERNAL STANDARDS								
74-97-5	Bromochloromethane	1162650		5.96				
540-36-3	1,4-Difluorobenzene	2410470		7.5				
3114-55-4	Chlorobenzene-d5	2302840		12.47				

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RL = Reporting Limit

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B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

Q = indicates LCS control criteria did not meet requirements

Report of Analysis

Client:	Chazen Companies	Date Collected:	08/23/17
Project:	Air 81323.07 Karta	Date Received:	08/25/17
Client Sample ID:	OUTDOOR-AIR	SDG No.:	I4984
Lab Sample ID:	I4984-05	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400	Units:	mL

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL030720.D	1		08/28/17 17:36	VL082817

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS								
75-71-8	Dichlorodifluoromethane	0.5	2.47	U	0.2	0.49	2.47	ug/m3
74-87-3	Chloromethane	0.44	0.91	J	0.04	0.21	1.03	ug/m3
75-01-4	Vinyl Chloride	0.03	0.08	U	0.05	0.08	0.08	ug/m3
74-83-9	Bromomethane	0.5	1.94	U	0.08	0.39	1.94	ug/m3
75-00-3	Chloroethane	0.5	1.32	U	0.08	0.26	1.32	ug/m3
109-99-9	Tetrahydrofuran	9.4	27.7		0.09	0.29	1.47	ug/m3
75-69-4	Trichlorofluoromethane	0.23	1.29	J	0.11	0.56	2.81	ug/m3
76-13-1	1,1,2-Trichlorotrifluoroethane	0.5	3.83	U	0.15	0.77	3.83	ug/m3
76-14-2	Dichlorotetrafluoroethane	0.5	3.49	U	0.14	0.7	3.49	ug/m3
593-60-2	Bromoethene	0.5	2.19	U	0.13	0.44	2.19	ug/m3
75-65-0	tert-Butyl alcohol	0.5	1.52	U	0.12	0.3	1.52	ug/m3
142-82-5	Heptane	4.6	18.8		0.08	0.41	2.05	ug/m3
75-35-4	1,1-Dichloroethene	0.5	1.98	U	0.08	0.4	1.98	ug/m3
67-64-1	Acetone	4.2	9.98		0.02	0.24	1.19	ug/m3
75-15-0	Carbon Disulfide	0.5	1.56	U	0.06	0.31	1.56	ug/m3
1634-04-4	Methyl tert-Butyl Ether	0.5	1.8	U	0.07	0.36	1.8	ug/m3
75-09-2	Methylene Chloride	1.1	3.82	B	0.07	0.35	1.74	ug/m3
156-60-5	trans-1,2-Dichloroethene	0.5	1.98	U	0.08	0.4	1.98	ug/m3
75-34-3	1,1-Dichloroethane	0.5	2.02	U	0.04	0.4	2.02	ug/m3
110-82-7	Cyclohexane	2.2	7.57		0.07	0.34	1.72	ug/m3
78-93-3	2-Butanone	8.7	25.7		0.06	0.29	1.47	ug/m3
56-23-5	Carbon Tetrachloride	0.03	0.19	U	0.13	0.19	0.19	ug/m3
156-59-2	cis-1,2-Dichloroethene	0.5	1.98	U	0.08	0.4	1.98	ug/m3
67-66-3	Chloroform	0.5	2.44	U	0.1	0.49	2.44	ug/m3
71-55-6	1,1,1-Trichloroethane	0.03	0.16	U	0.05	0.16	0.16	ug/m3
540-84-1	2,2,4-Trimethylpentane	4.3	20.1		0.09	0.47	2.34	ug/m3
71-43-2	Benzene	4.8	15.3		0.06	0.32	1.6	ug/m3
107-06-2	1,2-Dichloroethane	0.5	2.02	U	0.08	0.4	2.02	ug/m3
79-01-6	Trichloroethene	0.21	1.13		0.11	0.16	0.16	ug/m3
78-87-5	1,2-Dichloropropane	0.5	2.31	U	0.42	0.46	2.31	ug/m3
75-27-4	Bromodichloromethane	0.5	3.35	U	0.13	0.67	3.35	ug/m3
108-10-1	4-Methyl-2-Pentanone	0.5	2.05	U	0.08	0.41	2.05	ug/m3
108-88-3	Toluene	21.8	82.2	E	0.04	0.38	1.88	ug/m3
10061-02-6	t-1,3-Dichloropropene	0.5	2.27	U	0.09	0.45	2.27	ug/m3
10061-01-5	cis-1,3-Dichloropropene	0.5	2.27	U	0.09	0.45	2.27	ug/m3
79-00-5	1,1,2-Trichloroethane	0.5	2.73	U	0.11	0.55	2.73	ug/m3
124-48-1	Dibromochloromethane	0.5	4.26	U	0.09	0.85	4.26	ug/m3
106-93-4	1,2-Dibromoethane	0.5	3.84	U	0.15	0.77	3.84	ug/m3

Report of Analysis

Client:	Chazen Companies	Date Collected:	08/23/17
Project:	Air 81323.07 Karta	Date Received:	08/25/17
Client Sample ID:	OUTDOOR-AIR	SDG No.:	I4984
Lab Sample ID:	I4984-05	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400	Units:	mL

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL030720.D	1		08/28/17 17:36	VL082817

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOD	LOQ / CRQL	Units
127-18-4	Tetrachloroethene	0.34	2.31		0.14	0.2	0.2	ug/m3
108-90-7	Chlorobenzene	0.5	2.3	U	0.09	0.46	2.3	ug/m3
100-41-4	Ethyl Benzene	1.5	6.52		0.09	0.43	2.17	ug/m3
179601-23-1	m/p-Xylene	1.8	7.82		0.13	0.87	4.34	ug/m3
95-47-6	o-Xylene	0.64	2.78		0.09	0.43	2.17	ug/m3
100-42-5	Styrene	2.6	11.1		0.04	0.43	2.13	ug/m3
75-25-2	Bromoform	0.5	5.17	U	0.1	1.03	5.17	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	0.5	3.43	U	0.14	0.69	3.43	ug/m3
95-49-8	2-Chlorotoluene	0.5	2.59	U	0.1	0.52	2.59	ug/m3
108-67-8	1,3,5-Trimethylbenzene	0.18	0.88	J	0.1	0.49	2.46	ug/m3
95-63-6	1,2,4-Trimethylbenzene	0.41	2.02	J	0.1	0.49	2.46	ug/m3
541-73-1	1,3-Dichlorobenzene	0.5	3.01	U	0.12	0.6	3.01	ug/m3
106-46-7	1,4-Dichlorobenzene	0.5	3.01	U	0.18	0.6	3.01	ug/m3
95-50-1	1,2-Dichlorobenzene	0.5	3.01	U	0.12	0.6	3.01	ug/m3
120-82-1	1,2,4-Trichlorobenzene	0.5	3.71	U	0.3	0.74	3.71	ug/m3
87-68-3	Hexachloro-1,3-Butadiene	0.5	5.33	U	0.32	1.07	5.33	ug/m3
106-99-0	1,3-Butadiene	0.5	1.11	U	0.04	0.22	1.11	ug/m3
91-20-3	Naphthalene	0.5	2.62	U	0.21	0.52	2.62	ug/m3
622-96-8	4-Ethyltoluene	0.12	0.59	J	0.1	0.49	2.46	ug/m3
110-54-3	Hexane	22.1	77.9	E	0.07	0.35	1.76	ug/m3
107-05-1	Allyl Chloride	0.5	1.57	U	0.13	0.31	1.57	ug/m3
123-91-1	1,4-Dioxane	0.5	1.8	U	0.36	1.44	1.8	ug/m3
80-62-6	Methyl Methacrylate	0.5	2.05	U	0.08	0.41	2.05	ug/m3
SURROGATES								
460-00-4	1-Bromo-4-Fluorobenzene	10.1			65 - 135		101%	SPK: 10
INTERNAL STANDARDS								
74-97-5	Bromochloromethane	1027100		5.96				
540-36-3	1,4-Difluorobenzene	2202760		7.51				
3114-55-4	Chlorobenzene-d5	2144950		12.48				

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

D = Dilution

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

Q = indicates LCS control criteria did not meet requirements

Report of Analysis

Client:	Chazen Companies	Date Collected:	08/23/17
Project:	Air 81323.07 Karta	Date Received:	08/25/17
Client Sample ID:	OUTDOOR-AIRDL	SDG No.:	I4984
Lab Sample ID:	I4984-05DL	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400	Units:	mL

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL030722.D	10		08/28/17 18:56	VL082817

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS								
75-71-8	Dichlorodifluoromethane	5	24.7	UD	1.98	4.94	24.7	ug/m3
74-87-3	Chloromethane	5	10.3	UD	0.35	2.07	10.3	ug/m3
75-01-4	Vinyl Chloride	0.3	0.77	UD	0.38	0.77	0.77	ug/m3
74-83-9	Bromomethane	5	19.4	UD	0.7	3.88	19.4	ug/m3
75-00-3	Chloroethane	5	13.2	UD	0.82	2.64	13.2	ug/m3
109-99-9	Tetrahydrofuran	7.6	22.4	D	0.88	2.95	14.8	ug/m3
75-69-4	Trichlorofluoromethane	5	28.1	UD	1.35	5.62	28.1	ug/m3
76-13-1	1,1,2-Trichlorotrifluoroethane	5	38.3	UD	1.15	7.66	38.3	ug/m3
76-14-2	Dichlorotetrafluoroethane	5	35.0	UD	1.19	6.99	35.0	ug/m3
593-60-2	Bromoethene	5	21.9	UD	1.14	4.37	21.9	ug/m3
75-65-0	tert-Butyl alcohol	5	15.2	UD	1.3	3.03	15.2	ug/m3
142-82-5	Heptane	3.1	12.7	JD	0.98	4.1	20.5	ug/m3
75-35-4	1,1-Dichloroethene	5	19.8	UD	0.67	3.96	19.8	ug/m3
67-64-1	Acetone	5	11.9	UD	0.29	2.38	11.9	ug/m3
75-15-0	Carbon Disulfide	5	15.6	UD	0.75	3.11	15.6	ug/m3
1634-04-4	Methyl tert-Butyl Ether	5	18.0	UD	0.54	3.61	18.0	ug/m3
75-09-2	Methylene Chloride	5	17.4	UD	0.59	3.47	17.4	ug/m3
156-60-5	trans-1,2-Dichloroethene	5	19.8	UD	0.67	3.96	19.8	ug/m3
75-34-3	1,1-Dichloroethane	5	20.2	UD	0.49	4.05	20.2	ug/m3
110-82-7	Cyclohexane	5	17.2	UD	0.83	3.44	17.2	ug/m3
78-93-3	2-Butanone	7.2	21.2	D	0.65	2.95	14.8	ug/m3
56-23-5	Carbon Tetrachloride	0.3	1.89	UD	0.94	1.89	1.89	ug/m3
156-59-2	cis-1,2-Dichloroethene	5	19.8	UD	0.71	3.96	19.8	ug/m3
67-66-3	Chloroform	5	24.4	UD	0.73	4.88	24.4	ug/m3
71-55-6	1,1,1-Trichloroethane	0.3	1.64	UD	0.65	1.64	1.64	ug/m3
540-84-1	2,2,4-Trimethylpentane	4.5	21.0	JD	1.03	4.67	23.4	ug/m3
71-43-2	Benzene	3.9	12.5	JD	0.54	3.19	16.0	ug/m3
107-06-2	1,2-Dichloroethane	5	20.2	UD	0.61	4.05	20.2	ug/m3
79-01-6	Trichloroethene	0.3	1.61	UD	0.81	1.61	1.61	ug/m3
78-87-5	1,2-Dichloropropane	5	23.1	UD	3.93	4.62	23.1	ug/m3
75-27-4	Bromodichloromethane	5	33.5	UD	1.14	6.7	33.5	ug/m3
108-10-1	4-Methyl-2-Pentanone	5	20.5	UD	0.9	4.1	20.5	ug/m3
108-88-3	Toluene	19.3	72.7	D	0.45	3.77	18.8	ug/m3
10061-02-6	t-1,3-Dichloropropene	5	22.7	UD	1.09	4.54	22.7	ug/m3
10061-01-5	cis-1,3-Dichloropropene	5	22.7	UD	0.68	4.54	22.7	ug/m3
79-00-5	1,1,2-Trichloroethane	5	27.3	UD	1.2	5.46	27.3	ug/m3
124-48-1	Dibromochloromethane	5	42.6	UD	1.02	8.52	42.6	ug/m3
106-93-4	1,2-Dibromoethane	5	38.4	UD	1.15	7.69	38.4	ug/m3

Report of Analysis

Client:	Chazen Companies	Date Collected:	08/23/17
Project:	Air 81323.07 Karta	Date Received:	08/25/17
Client Sample ID:	OUTDOOR-AIRDL	SDG No.:	I4984
Lab Sample ID:	I4984-05DL	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL030722.D	10		08/28/17 18:56	VL082817

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOD	LOQ / CRQL	Units
127-18-4	Tetrachloroethene	0.3	2.03	UD	1.15	2.03	2.03	ug/m3
108-90-7	Chlorobenzene	5	23.0	UD	0.69	4.61	23.0	ug/m3
100-41-4	Ethyl Benzene	1.1	4.78	JD	0.74	4.34	21.7	ug/m3
179601-23-1	m/p-Xylene	1.3	5.65	JD	1.35	8.69	43.4	ug/m3
95-47-6	o-Xylene	5	21.7	UD	0.74	4.34	21.7	ug/m3
100-42-5	Styrene	1.8	7.66	JD	0.51	4.26	21.3	ug/m3
75-25-2	Bromoform	5	51.7	UD	1.24	10.3	51.7	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	5	34.3	UD	1.17	6.87	34.3	ug/m3
95-49-8	2-Chlorotoluene	5	25.9	UD	0.78	5.18	25.9	ug/m3
108-67-8	1,3,5-Trimethylbenzene	5	24.6	UD	1.23	4.92	24.6	ug/m3
95-63-6	1,2,4-Trimethylbenzene	5	24.6	UD	1.23	4.92	24.6	ug/m3
541-73-1	1,3-Dichlorobenzene	5	30.1	UD	1.02	6.01	30.1	ug/m3
106-46-7	1,4-Dichlorobenzene	5	30.1	UD	1.8	6.01	30.1	ug/m3
95-50-1	1,2-Dichlorobenzene	5	30.1	UD	1.5	6.01	30.1	ug/m3
120-82-1	1,2,4-Trichlorobenzene	5	37.1	UD	2.97	7.42	37.1	ug/m3
87-68-3	Hexachloro-1,3-Butadiene	5	53.3	UD	3.31	10.7	53.3	ug/m3
106-99-0	1,3-Butadiene	5	11.1	UD	0.49	2.21	11.1	ug/m3
91-20-3	Naphthalene	5	26.2	UD	2.25	5.24	26.2	ug/m3
622-96-8	4-Ethyltoluene	5	24.6	UD	0.74	4.92	24.6	ug/m3
110-54-3	Hexane	19.8	69.8	D	0.53	3.52	17.6	ug/m3
107-05-1	Allyl Chloride	5	15.6	UD	1.1	3.13	15.6	ug/m3
123-91-1	1,4-Dioxane	5	18.0	UD	3.53	14.4	18.0	ug/m3
80-62-6	Methyl Methacrylate	5	20.5	UD	0.7	4.09	20.5	ug/m3
SURROGATES								
460-00-4	1-Bromo-4-Fluorobenzene	10.2			65 - 135		102%	SPK: 10
INTERNAL STANDARDS								
74-97-5	Bromochloromethane	1163860		5.96				
540-36-3	1,4-Difluorobenzene	2379490		7.5				
3114-55-4	Chlorobenzene-d5	2266230		12.47				

U = Not Detected

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D = Dilution

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

Q = indicates LCS control criteria did not meet requirements

Report of Analysis

Client:	Chazen Companies	Date Collected:	08/23/17
Project:	Air 81323.07 Karta	Date Received:	08/25/17
Client Sample ID:	SV-13	SDG No.:	I4984
Lab Sample ID:	I4984-06	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400	Units:	mL

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL030717.D	10		08/28/17 15:38	VL082817

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS								
75-71-8	Dichlorodifluoromethane	1.9	9.4	J	1.98	4.94	24.7	ug/m3
74-87-3	Chloromethane	5	10.3	U	0.35	2.07	10.3	ug/m3
75-01-4	Vinyl Chloride	0.3	0.77	U	0.38	0.77	0.77	ug/m3
74-83-9	Bromomethane	5	19.4	U	0.7	3.88	19.4	ug/m3
75-00-3	Chloroethane	5	13.2	U	0.82	2.64	13.2	ug/m3
109-99-9	Tetrahydrofuran	320	943	E	0.88	2.95	14.8	ug/m3
75-69-4	Trichlorofluoromethane	14.5	81.5		1.35	5.62	28.1	ug/m3
76-13-1	1,1,2-Trichlorotrifluoroethane	5	38.3	U	1.15	7.66	38.3	ug/m3
76-14-2	Dichlorotetrafluoroethane	3.6	25.2	J	1.19	6.99	35.0	ug/m3
593-60-2	Bromoethene	5	21.9	U	1.14	4.37	21.9	ug/m3
75-65-0	tert-Butyl alcohol	13	39.4		1.3	3.03	15.2	ug/m3
142-82-5	Heptane	7.1	29.1		0.98	4.1	20.5	ug/m3
75-35-4	1,1-Dichloroethene	5	19.8	U	0.67	3.96	19.8	ug/m3
67-64-1	Acetone	100	237		0.29	2.38	11.9	ug/m3
75-15-0	Carbon Disulfide	8.9	27.7		0.75	3.11	15.6	ug/m3
1634-04-4	Methyl tert-Butyl Ether	5	18.0	U	0.54	3.61	18.0	ug/m3
75-09-2	Methylene Chloride	5	17.4	B	0.59	3.47	17.4	ug/m3
156-60-5	trans-1,2-Dichloroethene	5	19.8	U	0.67	3.96	19.8	ug/m3
75-34-3	1,1-Dichloroethane	5	20.2	U	0.49	4.05	20.2	ug/m3
110-82-7	Cyclohexane	9.2	31.7		0.83	3.44	17.2	ug/m3
78-93-3	2-Butanone	99.6	293		0.65	2.95	14.8	ug/m3
56-23-5	Carbon Tetrachloride	0.3	1.89	U	0.94	1.89	1.89	ug/m3
156-59-2	cis-1,2-Dichloroethene	5	19.8	U	0.71	3.96	19.8	ug/m3
67-66-3	Chloroform	2.3	11.2	J	0.73	4.88	24.4	ug/m3
71-55-6	1,1,1-Trichloroethane	0.3	1.64	U	0.65	1.64	1.64	ug/m3
540-84-1	2,2,4-Trimethylpentane	15.3	71.5		1.03	4.67	23.4	ug/m3
71-43-2	Benzene	11	35.1		0.54	3.19	16.0	ug/m3
107-06-2	1,2-Dichloroethane	5	20.2	U	0.61	4.05	20.2	ug/m3
79-01-6	Trichloroethene	0.3	1.61	U	0.81	1.61	1.61	ug/m3
78-87-5	1,2-Dichloropropane	5	23.1	U	3.93	4.62	23.1	ug/m3
75-27-4	Bromodichloromethane	5	33.5	U	1.14	6.7	33.5	ug/m3
108-10-1	4-Methyl-2-Pentanone	5	20.5	U	0.9	4.1	20.5	ug/m3
108-88-3	Toluene	41.8	157		0.45	3.77	18.8	ug/m3
10061-02-6	t-1,3-Dichloropropene	5	22.7	U	1.09	4.54	22.7	ug/m3
10061-01-5	cis-1,3-Dichloropropene	5	22.7	U	0.68	4.54	22.7	ug/m3
79-00-5	1,1,2-Trichloroethane	5	27.3	U	1.2	5.46	27.3	ug/m3
124-48-1	Dibromochloromethane	5	42.6	U	1.02	8.52	42.6	ug/m3
106-93-4	1,2-Dibromoethane	5	38.4	U	1.15	7.69	38.4	ug/m3

Report of Analysis

Client:	Chazen Companies	Date Collected:	08/23/17
Project:	Air 81323.07 Karta	Date Received:	08/25/17
Client Sample ID:	SV-13	SDG No.:	I4984
Lab Sample ID:	I4984-06	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400	Units:	mL

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL030717.D	10		08/28/17 15:38	VL082817

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOD	LOQ / CRQL	Units
127-18-4	Tetrachloroethene	0.3	2.03	U	1.15	2.03	2.03	ug/m3
108-90-7	Chlorobenzene	5	23.0	U	0.69	4.61	23.0	ug/m3
100-41-4	Ethyl Benzene	4.8	20.8	J	0.74	4.34	21.7	ug/m3
179601-23-1	m/p-Xylene	14.5	63.0		1.35	8.69	43.4	ug/m3
95-47-6	o-Xylene	5.4	23.5		0.74	4.34	21.7	ug/m3
100-42-5	Styrene	5	21.3	U	0.51	4.26	21.3	ug/m3
75-25-2	Bromoform	5	51.7	U	1.24	10.3	51.7	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	5	34.3	U	1.17	6.87	34.3	ug/m3
95-49-8	2-Chlorotoluene	5	25.9	U	0.78	5.18	25.9	ug/m3
108-67-8	1,3,5-Trimethylbenzene	5	24.6	U	1.23	4.92	24.6	ug/m3
95-63-6	1,2,4-Trimethylbenzene	2.8	13.8	J	1.23	4.92	24.6	ug/m3
541-73-1	1,3-Dichlorobenzene	5	30.1	U	1.02	6.01	30.1	ug/m3
106-46-7	1,4-Dichlorobenzene	5	30.1	U	1.8	6.01	30.1	ug/m3
95-50-1	1,2-Dichlorobenzene	5	30.1	U	1.5	6.01	30.1	ug/m3
120-82-1	1,2,4-Trichlorobenzene	5	37.1	U	2.97	7.42	37.1	ug/m3
87-68-3	Hexachloro-1,3-Butadiene	5	53.3	U	3.31	10.7	53.3	ug/m3
106-99-0	1,3-Butadiene	5	11.1	U	0.49	2.21	11.1	ug/m3
91-20-3	Naphthalene	5	26.2	U	2.25	5.24	26.2	ug/m3
622-96-8	4-Ethyltoluene	1.1	5.41	J	0.74	4.92	24.6	ug/m3
110-54-3	Hexane	31.3	110		0.53	3.52	17.6	ug/m3
107-05-1	Allyl Chloride	5	15.6	U	1.1	3.13	15.6	ug/m3
123-91-1	1,4-Dioxane	5	18.0	U	3.53	14.4	18.0	ug/m3
80-62-6	Methyl Methacrylate	5	20.5	U	0.7	4.09	20.5	ug/m3
SURROGATES								
460-00-4	1-Bromo-4-Fluorobenzene	10.5			65 - 135		105%	SPK: 10
INTERNAL STANDARDS								
74-97-5	Bromochloromethane	1182550		5.96				
540-36-3	1,4-Difluorobenzene	2428710		7.51				
3114-55-4	Chlorobenzene-d5	2308890		12.47				

U = Not Detected

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N = Presumptive Evidence of a Compound

* = Values outside of QC limits

Q = indicates LCS control criteria did not meet requirements

Report of Analysis

Client:	Chazen Companies	Date Collected:	08/23/17
Project:	Air 81323.07 Karta	Date Received:	08/25/17
Client Sample ID:	SV-13DL	SDG No.:	I4984
Lab Sample ID:	I4984-06DL	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400	Units:	mL

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL030736.D	40		08/29/17 03:57	VL082817

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS								
75-71-8	Dichlorodifluoromethane	20	98.9	UD	7.91	19.8	98.9	ug/m3
74-87-3	Chloromethane	20	41.3	UD	1.38	8.26	41.3	ug/m3
75-01-4	Vinyl Chloride	1.2	3.07	UD	1.56	3.07	3.07	ug/m3
74-83-9	Bromomethane	20	77.7	UD	2.8	15.5	77.7	ug/m3
75-00-3	Chloroethane	20	52.8	UD	3.17	10.6	52.8	ug/m3
109-99-9	Tetrahydrofuran	360	1061	D	3.54	11.8	59.0	ug/m3
75-69-4	Trichlorofluoromethane	16.8	94.4	JD	5.34	22.5	112	ug/m3
76-13-1	1,1,2-Trichlorotrifluoroethane	20	153	UD	4.68	30.7	153	ug/m3
76-14-2	Dichlorotetrafluoroethane	20	139	UD	4.68	28.0	139	ug/m3
593-60-2	Bromoethene	20	87.4	UD	4.37	17.5	87.4	ug/m3
75-65-0	tert-Butyl alcohol	20	60.6	UD	5.15	12.1	60.6	ug/m3
142-82-5	Heptane	20	82.0	UD	3.89	16.4	82.0	ug/m3
75-35-4	1,1-Dichloroethene	20	79.3	UD	2.66	15.9	79.3	ug/m3
67-64-1	Acetone	100	237	D	1.14	9.5	47.5	ug/m3
75-15-0	Carbon Disulfide	20	62.3	UD	2.96	12.5	62.3	ug/m3
1634-04-4	Methyl tert-Butyl Ether	20	72.1	UD	2.2	14.4	72.1	ug/m3
75-09-2	Methylene Chloride	20	69.5	UD	2.33	13.9	69.5	ug/m3
156-60-5	trans-1,2-Dichloroethene	20	79.3	UD	2.66	15.9	79.3	ug/m3
75-34-3	1,1-Dichloroethane	20	81.0	UD	1.94	16.2	81.0	ug/m3
110-82-7	Cyclohexane	20	68.8	UD	3.27	13.8	68.8	ug/m3
78-93-3	2-Butanone	110	324	D	2.57	11.8	59.0	ug/m3
56-23-5	Carbon Tetrachloride	1.2	7.55	UD	3.84	7.55	7.55	ug/m3
156-59-2	cis-1,2-Dichloroethene	20	79.3	UD	2.85	15.9	79.3	ug/m3
67-66-3	Chloroform	20	97.7	UD	2.98	19.5	97.7	ug/m3
71-55-6	1,1,1-Trichloroethane	1.2	6.55	UD	2.62	6.55	6.55	ug/m3
540-84-1	2,2,4-Trimethylpentane	15.6	72.9	JD	4.06	18.7	93.4	ug/m3
71-43-2	Benzene	11.2	35.8	JD	2.14	12.8	63.9	ug/m3
107-06-2	1,2-Dichloroethane	20	81.0	UD	2.47	16.2	81.0	ug/m3
79-01-6	Trichloroethene	1.2	6.45	UD	3.28	6.45	6.45	ug/m3
78-87-5	1,2-Dichloropropane	20	92.4	UD	15.7	18.5	92.4	ug/m3
75-27-4	Bromodichloromethane	20	133	UD	4.49	26.8	133	ug/m3
108-10-1	4-Methyl-2-Pentanone	20	82.0	UD	3.57	16.4	82.0	ug/m3
108-88-3	Toluene	42.8	161	D	1.81	15.1	75.4	ug/m3
10061-02-6	t-1,3-Dichloropropene	20	90.8	UD	4.31	18.2	90.8	ug/m3
10061-01-5	cis-1,3-Dichloropropene	20	90.8	UD	2.77	18.2	90.8	ug/m3
79-00-5	1,1,2-Trichloroethane	20	109	UD	4.75	21.8	109	ug/m3
124-48-1	Dibromochloromethane	20	170	UD	4.09	34.1	170	ug/m3
106-93-4	1,2-Dibromoethane	20	153	UD	4.69	30.7	153	ug/m3

Report of Analysis

Client:	Chazen Companies	Date Collected:	08/23/17
Project:	Air 81323.07 Karta	Date Received:	08/25/17
Client Sample ID:	SV-13DL	SDG No.:	I4984
Lab Sample ID:	I4984-06DL	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400	Units:	mL

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL030736.D	40		08/29/17 03:57	VL082817

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOD	LOQ / CRQL	Units
127-18-4	Tetrachloroethene	1.2	8.14	UD	4.54	8.14	8.14	ug/m3
108-90-7	Chlorobenzene	20	92.1	UD	2.81	18.4	92.1	ug/m3
100-41-4	Ethyl Benzene	20	86.9	UD	2.91	17.4	86.9	ug/m3
179601-23-1	m/p-Xylene	12.4	53.9	JD	5.21	34.8	173	ug/m3
95-47-6	o-Xylene	20	86.9	UD	2.91	17.4	86.9	ug/m3
100-42-5	Styrene	20	85.2	UD	2.04	17.0	85.2	ug/m3
75-25-2	Bromoform	20	206	UD	4.96	41.4	206	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	20	137	UD	4.6	27.5	137	ug/m3
95-49-8	2-Chlorotoluene	20	103	UD	3.16	20.7	103	ug/m3
108-67-8	1,3,5-Trimethylbenzene	20	98.3	UD	4.87	19.7	98.3	ug/m3
95-63-6	1,2,4-Trimethylbenzene	20	98.3	UD	4.87	19.7	98.3	ug/m3
541-73-1	1,3-Dichlorobenzene	20	120	UD	4.03	24.0	120	ug/m3
106-46-7	1,4-Dichlorobenzene	20	120	UD	7.21	24.0	120	ug/m3
95-50-1	1,2-Dichlorobenzene	20	120	UD	5.95	24.0	120	ug/m3
120-82-1	1,2,4-Trichlorobenzene	20	148	UD	11.9	29.7	148	ug/m3
87-68-3	Hexachloro-1,3-Butadiene	20	213	UD	12.8	42.7	213	ug/m3
106-99-0	1,3-Butadiene	20	44.2	UD	1.92	8.85	44.2	ug/m3
91-20-3	Naphthalene	20	104	UD	8.91	21.0	104	ug/m3
622-96-8	4-Ethyltoluene	20	98.3	UD	3	19.7	98.3	ug/m3
110-54-3	Hexane	36	126	D	2.15	14.1	70.5	ug/m3
107-05-1	Allyl Chloride	20	62.6	UD	4.38	12.5	62.6	ug/m3
123-91-1	1,4-Dioxane	20	72.1	UD	14.1	57.7	72.1	ug/m3
80-62-6	Methyl Methacrylate	20	81.9	UD	2.74	16.4	81.9	ug/m3
SURROGATES								
460-00-4	1-Bromo-4-Fluorobenzene	10.2			65 - 135		102%	SPK: 10
INTERNAL STANDARDS								
74-97-5	Bromochloromethane	966757		5.96				
540-36-3	1,4-Difluorobenzene	1984930		7.51				
3114-55-4	Chlorobenzene-d5	1906230		12.48				

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

D = Dilution

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

Q = indicates LCS control criteria did not meet requirements

Report of Analysis

Client:	Chazen Companies	Date Collected:	08/23/17
Project:	Air 81323.07 Karta	Date Received:	08/25/17
Client Sample ID:	SV-14	SDG No.:	I4984
Lab Sample ID:	I4984-07	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400	Units:	mL

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL030718.D	10		08/28/17 16:17	VL082817

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS								
75-71-8	Dichlorodifluoromethane	5	24.7	U	1.98	4.94	24.7	ug/m3
74-87-3	Chloromethane	5	10.3	U	0.35	2.07	10.3	ug/m3
75-01-4	Vinyl Chloride	0.3	0.77	U	0.38	0.77	0.77	ug/m3
74-83-9	Bromomethane	5	19.4	U	0.7	3.88	19.4	ug/m3
75-00-3	Chloroethane	5	13.2	U	0.82	2.64	13.2	ug/m3
109-99-9	Tetrahydrofuran	430	1268	E	0.88	2.95	14.8	ug/m3
75-69-4	Trichlorofluoromethane	4.3	24.2	J	1.35	5.62	28.1	ug/m3
76-13-1	1,1,2-Trichlorotrifluoroethane	5	38.3	U	1.15	7.66	38.3	ug/m3
76-14-2	Dichlorotetrafluoroethane	5	35.0	U	1.19	6.99	35.0	ug/m3
593-60-2	Bromoethene	5	21.9	U	1.14	4.37	21.9	ug/m3
75-65-0	tert-Butyl alcohol	5	15.2	U	1.3	3.03	15.2	ug/m3
142-82-5	Heptane	11.5	47.1		0.98	4.1	20.5	ug/m3
75-35-4	1,1-Dichloroethene	5	19.8	U	0.67	3.96	19.8	ug/m3
67-64-1	Acetone	60.8	144		0.29	2.38	11.9	ug/m3
75-15-0	Carbon Disulfide	5	15.6	U	0.75	3.11	15.6	ug/m3
1634-04-4	Methyl tert-Butyl Ether	5	18.0	U	0.54	3.61	18.0	ug/m3
75-09-2	Methylene Chloride	4.8	16.7	JB	0.59	3.47	17.4	ug/m3
156-60-5	trans-1,2-Dichloroethene	5	19.8	U	0.67	3.96	19.8	ug/m3
75-34-3	1,1-Dichloroethane	5	20.2	U	0.49	4.05	20.2	ug/m3
110-82-7	Cyclohexane	16.6	57.1		0.83	3.44	17.2	ug/m3
78-93-3	2-Butanone	130	383		0.65	2.95	14.8	ug/m3
56-23-5	Carbon Tetrachloride	0.3	1.89	U	0.94	1.89	1.89	ug/m3
156-59-2	cis-1,2-Dichloroethene	5	19.8	U	0.71	3.96	19.8	ug/m3
67-66-3	Chloroform	5	24.4	U	0.73	4.88	24.4	ug/m3
71-55-6	1,1,1-Trichloroethane	0.3	1.64	U	0.65	1.64	1.64	ug/m3
540-84-1	2,2,4-Trimethylpentane	25.1	117		1.03	4.67	23.4	ug/m3
71-43-2	Benzene	16.6	53.0		0.54	3.19	16.0	ug/m3
107-06-2	1,2-Dichloroethane	5	20.2	U	0.61	4.05	20.2	ug/m3
79-01-6	Trichloroethene	0.3	1.61	U	0.81	1.61	1.61	ug/m3
78-87-5	1,2-Dichloropropane	5	23.1	U	3.93	4.62	23.1	ug/m3
75-27-4	Bromodichloromethane	5	33.5	U	1.14	6.7	33.5	ug/m3
108-10-1	4-Methyl-2-Pentanone	5	20.5	U	0.9	4.1	20.5	ug/m3
108-88-3	Toluene	56	211		0.45	3.77	18.8	ug/m3
10061-02-6	t-1,3-Dichloropropene	5	22.7	U	1.09	4.54	22.7	ug/m3
10061-01-5	cis-1,3-Dichloropropene	5	22.7	U	0.68	4.54	22.7	ug/m3
79-00-5	1,1,2-Trichloroethane	5	27.3	U	1.2	5.46	27.3	ug/m3
124-48-1	Dibromochloromethane	5	42.6	U	1.02	8.52	42.6	ug/m3
106-93-4	1,2-Dibromoethane	5	38.4	U	1.15	7.69	38.4	ug/m3

Report of Analysis

Client:	Chazen Companies	Date Collected:	08/23/17
Project:	Air 81323.07 Karta	Date Received:	08/25/17
Client Sample ID:	SV-14	SDG No.:	I4984
Lab Sample ID:	I4984-07	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400	Units:	mL

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL030718.D	10		08/28/17 16:17	VL082817

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOD	LOQ / CRQL	Units
127-18-4	Tetrachloroethene	0.3	2.03	U	1.15	2.03	2.03	ug/m3
108-90-7	Chlorobenzene	5	23.0	U	0.69	4.61	23.0	ug/m3
100-41-4	Ethyl Benzene	4.8	20.8	J	0.74	4.34	21.7	ug/m3
179601-23-1	m/p-Xylene	14.5	63.0		1.35	8.69	43.4	ug/m3
95-47-6	o-Xylene	5.4	23.5		0.74	4.34	21.7	ug/m3
100-42-5	Styrene	5	21.3	U	0.51	4.26	21.3	ug/m3
75-25-2	Bromoform	5	51.7	U	1.24	10.3	51.7	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	5	34.3	U	1.17	6.87	34.3	ug/m3
95-49-8	2-Chlorotoluene	5	25.9	U	0.78	5.18	25.9	ug/m3
108-67-8	1,3,5-Trimethylbenzene	5	24.6	U	1.23	4.92	24.6	ug/m3
95-63-6	1,2,4-Trimethylbenzene	2.7	13.3	J	1.23	4.92	24.6	ug/m3
541-73-1	1,3-Dichlorobenzene	5	30.1	U	1.02	6.01	30.1	ug/m3
106-46-7	1,4-Dichlorobenzene	5	30.1	U	1.8	6.01	30.1	ug/m3
95-50-1	1,2-Dichlorobenzene	5	30.1	U	1.5	6.01	30.1	ug/m3
120-82-1	1,2,4-Trichlorobenzene	5	37.1	U	2.97	7.42	37.1	ug/m3
87-68-3	Hexachloro-1,3-Butadiene	5	53.3	U	3.31	10.7	53.3	ug/m3
106-99-0	1,3-Butadiene	5	11.1	U	0.49	2.21	11.1	ug/m3
91-20-3	Naphthalene	5	26.2	U	2.25	5.24	26.2	ug/m3
622-96-8	4-Ethyltoluene	1	4.92	J	0.74	4.92	24.6	ug/m3
110-54-3	Hexane	51.6	181		0.53	3.52	17.6	ug/m3
107-05-1	Allyl Chloride	5	15.6	U	1.1	3.13	15.6	ug/m3
123-91-1	1,4-Dioxane	5	18.0	U	3.53	14.4	18.0	ug/m3
80-62-6	Methyl Methacrylate	5	20.5	U	0.7	4.09	20.5	ug/m3
SURROGATES								
460-00-4	1-Bromo-4-Fluorobenzene	10.4			65 - 135		104%	SPK: 10
INTERNAL STANDARDS								
74-97-5	Bromochloromethane	1179130		5.96				
540-36-3	1,4-Difluorobenzene	2448820		7.5				
3114-55-4	Chlorobenzene-d5	2324450		12.47				

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

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B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

Q = indicates LCS control criteria did not meet requirements

Report of Analysis

Client:	Chazen Companies	Date Collected:	08/23/17
Project:	Air 81323.07 Karta	Date Received:	08/25/17
Client Sample ID:	SV-14DL	SDG No.:	I4984
Lab Sample ID:	I4984-07DL	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400	Units:	mL

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL030743.D	100		08/30/17 16:02	VL083017

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS								
75-71-8	Dichlorodifluoromethane	50	247	UD	19.8	49.4	247	ug/m3
74-87-3	Chloromethane	50	103	UD	3.51	20.6	103	ug/m3
75-01-4	Vinyl Chloride	3	7.67	UD	3.83	7.67	7.67	ug/m3
74-83-9	Bromomethane	50	194	UD	6.99	38.8	194	ug/m3
75-00-3	Chloroethane	50	131	UD	8.18	26.4	131	ug/m3
109-99-9	Tetrahydrofuran	400	1179	D	8.85	29.5	147	ug/m3
75-69-4	Trichlorofluoromethane	50	280	UD	13.5	56.2	280	ug/m3
76-13-1	1,1,2-Trichlorotrifluoroethane	50	383	UD	11.5	76.6	383	ug/m3
76-14-2	Dichlorotetrafluoroethane	50	349	UD	11.9	69.9	349	ug/m3
593-60-2	Bromoethene	50	218	UD	11.4	43.7	218	ug/m3
75-65-0	tert-Butyl alcohol	50	151	UD	13.0	30.3	151	ug/m3
142-82-5	Heptane	50	204	UD	9.84	41.0	204	ug/m3
75-35-4	1,1-Dichloroethene	50	198	UD	6.74	39.6	198	ug/m3
67-64-1	Acetone	100	237	D	2.85	23.8	118	ug/m3
75-15-0	Carbon Disulfide	50	155	UD	7.47	31.1	155	ug/m3
1634-04-4	Methyl tert-Butyl Ether	50	180	UD	5.41	36.0	180	ug/m3
75-09-2	Methylene Chloride	50	173	UD	5.91	34.7	173	ug/m3
156-60-5	trans-1,2-Dichloroethene	50	198	UD	6.74	39.6	198	ug/m3
75-34-3	1,1-Dichloroethane	50	202	UD	4.86	40.5	202	ug/m3
110-82-7	Cyclohexane	50	172	UD	8.26	34.4	172	ug/m3
78-93-3	2-Butanone	120	353	D	6.49	29.5	147	ug/m3
56-23-5	Carbon Tetrachloride	3	18.9	UD	9.44	18.9	18.9	ug/m3
156-59-2	cis-1,2-Dichloroethene	50	198	UD	7.14	39.6	198	ug/m3
67-66-3	Chloroform	50	244	UD	7.33	48.8	244	ug/m3
71-55-6	1,1,1-Trichloroethane	3	16.4	UD	6.55	16.4	16.4	ug/m3
540-84-1	2,2,4-Trimethylpentane	50	233	UD	10.3	46.7	233	ug/m3
71-43-2	Benzene	50	159	UD	5.43	32.0	159	ug/m3
107-06-2	1,2-Dichloroethane	50	202	UD	6.07	40.5	202	ug/m3
79-01-6	Trichloroethene	3	16.1	UD	8.06	16.1	16.1	ug/m3
78-87-5	1,2-Dichloropropane	50	231	UD	39.3	46.2	231	ug/m3
75-27-4	Bromodichloromethane	50	334	UD	11.4	67.0	334	ug/m3
108-10-1	4-Methyl-2-Pentanone	50	204	UD	9.02	41.0	204	ug/m3
108-88-3	Toluene	38	143	JD	4.52	37.7	188	ug/m3
10061-02-6	t-1,3-Dichloropropene	50	226	UD	10.9	45.4	226	ug/m3
10061-01-5	cis-1,3-Dichloropropene	50	226	UD	6.81	45.4	226	ug/m3
79-00-5	1,1,2-Trichloroethane	50	272	UD	12	54.6	272	ug/m3
124-48-1	Dibromochloromethane	50	425	UD	10.2	85.2	425	ug/m3
106-93-4	1,2-Dibromoethane	50	384	UD	11.5	76.8	384	ug/m3

Report of Analysis

Client:	Chazen Companies	Date Collected:	08/23/17
Project:	Air 81323.07 Karta	Date Received:	08/25/17
Client Sample ID:	SV-14DL	SDG No.:	I4984
Lab Sample ID:	I4984-07DL	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400	Units:	mL

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL030743.D	100		08/30/17 16:02	VL083017

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOD	LOQ / CRQL	Units
127-18-4	Tetrachloroethene	3	20.3	UD	11.5	20.3	20.3	ug/m3
108-90-7	Chlorobenzene	50	230	UD	6.91	46.0	230	ug/m3
100-41-4	Ethyl Benzene	50	217	UD	7.38	43.4	217	ug/m3
179601-23-1	m/p-Xylene	100	434	UD	13.5	86.9	434	ug/m3
95-47-6	o-Xylene	50	217	UD	7.38	43.4	217	ug/m3
100-42-5	Styrene	50	212	UD	5.11	42.6	212	ug/m3
75-25-2	Bromoform	50	516	UD	12.4	103	516	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	50	343	UD	11.7	68.7	343	ug/m3
95-49-8	2-Chlorotoluene	50	258	UD	7.77	51.8	258	ug/m3
108-67-8	1,3,5-Trimethylbenzene	50	245	UD	12.3	49.2	245	ug/m3
95-63-6	1,2,4-Trimethylbenzene	50	245	UD	12.3	49.2	245	ug/m3
541-73-1	1,3-Dichlorobenzene	50	300	UD	10.2	60.1	300	ug/m3
106-46-7	1,4-Dichlorobenzene	50	300	UD	18.0	60.1	300	ug/m3
95-50-1	1,2-Dichlorobenzene	50	300	UD	15.0	60.1	300	ug/m3
120-82-1	1,2,4-Trichlorobenzene	50	371	UD	29.7	74.2	371	ug/m3
87-68-3	Hexachloro-1,3-Butadiene	50	533	UD	33.1	106	533	ug/m3
106-99-0	1,3-Butadiene	50	110	UD	4.87	22.1	110	ug/m3
91-20-3	Naphthalene	50	262	UD	22.5	52.4	262	ug/m3
622-96-8	4-Ethyltoluene	50	245	UD	7.37	49.2	245	ug/m3
110-54-3	Hexane	50	176	UD	5.29	35.2	176	ug/m3
107-05-1	Allyl Chloride	50	156	UD	11.0	31.3	156	ug/m3
123-91-1	1,4-Dioxane	50	180	UD	35.3	144	180	ug/m3
80-62-6	Methyl Methacrylate	50	204	UD	6.96	41.0	204	ug/m3
SURROGATES								
460-00-4	1-Bromo-4-Fluorobenzene	10.2			65 - 135		102%	SPK: 10
INTERNAL STANDARDS								
74-97-5	Bromochloromethane	1097170		5.96				
540-36-3	1,4-Difluorobenzene	2173970		7.5				
3114-55-4	Chlorobenzene-d5	2140430		12.47				

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

D = Dilution

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

Q = indicates LCS control criteria did not meet requirements

QC SUMMARY

Surrogate Summary

SDG No.: I4984

Client: Chazen Companies

Analytical Method: SWTO-15

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits	
						Low	High
I4984-01	SV-09	1-Bromo-4-Fluorobenzene	10	10.2	102	65	135
I4984-01DL	SV-09DL	1-Bromo-4-Fluorobenzene	10	10.36	104	65	135
I4984-02	SV-10	1-Bromo-4-Fluorobenzene	10	10.38	104	65	135
I4984-02DL	SV-10DL	1-Bromo-4-Fluorobenzene	10	10.1	101	65	135
I4984-03	SV-11	1-Bromo-4-Fluorobenzene	10	10.38	104	65	135
I4984-03DL	SV-11DL	1-Bromo-4-Fluorobenzene	10	10.15	102	65	135
I4984-04	SV-12	1-Bromo-4-Fluorobenzene	10	10.31	103	65	135
I4984-04DL	SV-12DL	1-Bromo-4-Fluorobenzene	10	10.22	102	65	135
I4984-05	OUTDOOR-AIR	1-Bromo-4-Fluorobenzene	10	10.05	101	65	135
I4984-05DL	OUTDOOR-AIRDL	1-Bromo-4-Fluorobenzene	10	10.19	102	65	135
I4984-05DUP	OUTDOOR-AIRDUP	1-Bromo-4-Fluorobenzene	10	10.18	102	65	135
I4984-06	SV-13	1-Bromo-4-Fluorobenzene	10	10.5	105	65	135
I4984-06DL	SV-13DL	1-Bromo-4-Fluorobenzene	10	10.23	102	65	135
I4984-07	SV-14	1-Bromo-4-Fluorobenzene	10	10.37	104	65	135
I4984-07DL	SV-14DL	1-Bromo-4-Fluorobenzene	10	10.17	102	65	135
VL0828ABL01	VL0828ABL01	1-Bromo-4-Fluorobenzene	10	10.18	102	65	135
VL0828ABS01	VL0828ABS01	1-Bromo-4-Fluorobenzene	10	9.49	95	65	135
VL0830ABL01	VL0830ABL01	1-Bromo-4-Fluorobenzene	10	10.01	100	65	135
VL0830ABS02	VL0830ABS02	1-Bromo-4-Fluorobenzene	10	9.37	94	65	135

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary
SW-846

SDG No.: I4984

Client: Chazen Companies

Analytical Method: SWTO-15

Datafile : VL030712.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits	
									High	RPD
VL0828ABS01	Dichlorodifluoromethane	10	8	ppbv	80			70	130	
	Chloromethane	10	8.3	ppbv	83			70	130	
	Vinyl Chloride	10	8.7	ppbv	87			70	130	
	Bromomethane	10	8.3	ppbv	83			70	130	
	Chloroethane	10	8.4	ppbv	84			70	130	
	Tetrahydrofuran	10	10	ppbv	100			70	130	
	Trichlorofluoromethane	10	8.2	ppbv	82			70	130	
	1,1,2-Trichlorotrifluoroethane	10	8.7	ppbv	87			70	130	
	Dichlorotetrafluoroethane	10	8.1	ppbv	81			70	130	
	Bromoethene	10	8.5	ppbv	85			70	130	
	tert-Butyl Alcohol	10	7.8	ppbv	78			70	130	
	Heptane	10	9.7	ppbv	97			70	130	
	1,1-Dichloroethene	10	8.4	ppbv	84			70	130	
	Acetone	10	7.1	ppbv	71			70	130	
	Carbon disulfide	10	9.5	ppbv	95			70	130	
	Methyl tert-butyl Ether	10	9.5	ppbv	95			70	130	
	Methylene Chloride	10	7.8	ppbv	78			70	130	
	trans-1,2-Dichloroethene	10	8.7	ppbv	87			70	130	
	1,1-Dichloroethane	10	9	ppbv	90			70	130	
	Cyclohexane	10	9.1	ppbv	91			70	130	
	2-Butanone	10	9.5	ppbv	95			70	130	
	Carbon Tetrachloride	10	9.4	ppbv	94			70	130	
	cis-1,2-Dichloroethene	10	9.4	ppbv	94			70	130	
	Chloroform	10	9.1	ppbv	91			70	130	
	1,1,1-Trichloroethane	10	9.3	ppbv	93			70	130	
	2,2,4-Trimethylpentane	10	10.6	ppbv	106			70	130	
	Benzene	10	9.4	ppbv	94			70	130	
	1,2-Dichloroethane	10	9.5	ppbv	95			70	130	
	Trichloroethene	10	9.9	ppbv	99			70	130	
	1,2-Dichloropropane	10	9.4	ppbv	94			70	130	
	Bromodichloromethane	10	11.3	ppbv	113			70	130	
	4-Methyl-2-Pentanone	10	9.8	ppbv	98			70	130	
	Toluene	10	9.2	ppbv	92			70	130	
	t-1,3-Dichloropropene	10	9.2	ppbv	92			70	130	
	cis-1,3-Dichloropropene	10	10	ppbv	100			70	130	
	1,1,2-Trichloroethane	10	8.9	ppbv	89			70	130	
	Dibromochloromethane	10	9.8	ppbv	98			70	130	
	1,2-Dibromoethane	10	9.2	ppbv	92			70	130	
	Tetrachloroethene	10	9.1	ppbv	91			70	130	
	Chlorobenzene	10	8.7	ppbv	87			70	130	
	Ethyl Benzene	10	9.3	ppbv	93			70	130	
	m/p-Xylene	20	18.1	ppbv	91			70	130	
	o-Xylene	10	8.9	ppbv	89			70	130	
	Styrene	10	9.7	ppbv	97			70	130	
	Bromoform	10	9.5	ppbv	95			70	130	
	1,1,2,2-Tetrachloroethane	10	8.2	ppbv	82			70	130	
	2-Chlorotoluene	10	9.2	ppbv	92			70	130	
	1,3,5-Trimethylbenzene	10	9.2	ppbv	92			70	130	
	1,2,4-Trimethylbenzene	10	8.8	ppbv	88			70	130	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary
SW-846

SDG No.:

I4984

Client:

Chazen Companies

Analytical Method:

SWTO-15

Datafile :

VL030712.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits	
									High	RPD
VL0828ABS01	1,3-Dichlorobenzene	10	8.5	ppbv	85			70	130	
	1,4-Dichlorobenzene	10	8.7	ppbv	87			70	130	
	1,2-Dichlorobenzene	10	8.7	ppbv	87			70	130	
	1,2,4-Trichlorobenzene	10	8.7	ppbv	87			70	130	
	Hexachloro-1,3-butadiene	10	11	ppbv	110			70	130	
	Naphthalene	10	9.6	ppbv	96			70	130	
	1,3-Butadiene	10	9.7	ppbv	97			70	130	
	4-Ethyltoluene	10	9.4	ppbv	94			70	130	
	Hexane	10	9.1	ppbv	91			70	130	
	Allyl Chloride	10	8.7	ppbv	87			70	130	
	1,4-Dioxane	10	10.1	ppbv	101			70	130	
	Methyl methacrylate	10	11.2	ppbv	112			70	130	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary
SW-846

SDG No.: I4984

Client: Chazen Companies

Analytical Method: SWTO-15

Datafile : VL030760.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits	
									High	RPD
VL0830ABS02	Dichlorodifluoromethane	10	8.3	ppbv	83			70	130	
	Chloromethane	10	9.3	ppbv	93			70	130	
	Vinyl Chloride	10	9.9	ppbv	99			70	130	
	Bromomethane	10	9.2	ppbv	92			70	130	
	Chloroethane	10	9.4	ppbv	94			70	130	
	Tetrahydrofuran	10	10.7	ppbv	107			70	130	
	Trichlorofluoromethane	10	8.7	ppbv	87			70	130	
	1,1,2-Trichlorotrifluoroethane	10	9.5	ppbv	95			70	130	
	Dichlorotetrafluoroethane	10	9	ppbv	90			70	130	
	Bromoethene	10	9.7	ppbv	97			70	130	
	tert-Butyl Alcohol	10	10.3	ppbv	103			70	130	
	Heptane	10	10.9	ppbv	109			70	130	
	1,1-Dichloroethene	10	9.5	ppbv	95			70	130	
	Acetone	10	8	ppbv	80			70	130	
	Carbon disulfide	10	10.7	ppbv	107			70	130	
	Methyl tert-butyl Ether	10	10.7	ppbv	107			70	130	
	Methylene Chloride	10	8.7	ppbv	87			70	130	
	trans-1,2-Dichloroethene	10	9.8	ppbv	98			70	130	
	1,1-Dichloroethane	10	9.6	ppbv	96			70	130	
	Cyclohexane	10	10.3	ppbv	103			70	130	
	2-Butanone	10	10.5	ppbv	105			70	130	
	Carbon Tetrachloride	10	9.7	ppbv	97			70	130	
	cis-1,2-Dichloroethene	10	10.4	ppbv	104			70	130	
	Chloroform	10	9.8	ppbv	98			70	130	
	1,1,1-Trichloroethane	10	10	ppbv	100			70	130	
	2,2,4-Trimethylpentane	10	11	ppbv	110			70	130	
	Benzene	10	9.9	ppbv	99			70	130	
	1,2-Dichloroethane	10	9.6	ppbv	96			70	130	
	Trichloroethene	10	10.7	ppbv	107			70	130	
	1,2-Dichloropropane	10	13	ppbv	130			70	130	
	Bromodichloromethane	10	11.6	ppbv	116			70	130	
	4-Methyl-2-Pentanone	10	8.1	ppbv	81			70	130	
	Toluene	10	9.6	ppbv	96			70	130	
	t-1,3-Dichloropropene	10	9.9	ppbv	99			70	130	
	cis-1,3-Dichloropropene	10	8.5	ppbv	85			70	130	
	1,1,2-Trichloroethane	10	9.2	ppbv	92			70	130	
	Dibromochloromethane	10	10.1	ppbv	101			70	130	
	1,2-Dibromoethane	10	9.7	ppbv	97			70	130	
	Tetrachloroethene	10	9.8	ppbv	98			70	130	
	Chlorobenzene	10	9.7	ppbv	97			70	130	
	Ethyl Benzene	10	10.1	ppbv	101			70	130	
	m/p-Xylene	20	19.6	ppbv	98			70	130	
	o-Xylene	10	9.6	ppbv	96			70	130	
	Styrene	10	11.1	ppbv	111			70	130	
	Bromoform	10	10.3	ppbv	103			70	130	
	1,1,2,2-Tetrachloroethane	10	8.8	ppbv	88			70	130	
	2-Chlorotoluene	10	9.7	ppbv	97			70	130	
	1,3,5-Trimethylbenzene	10	9.7	ppbv	97			70	130	
	1,2,4-Trimethylbenzene	10	9.5	ppbv	95			70	130	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary
SW-846

SDG No.: I4984
Client: Chazen Companies
Analytical Method: SWTO-15

Datafile : VL030760.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits	
									High	RPD
VL0830ABS02	1,3-Dichlorobenzene	10	9.3	ppbv	93			70	130	
	1,4-Dichlorobenzene	10	9.6	ppbv	96			70	130	
	1,2-Dichlorobenzene	10	9.4	ppbv	94			70	130	
	1,2,4-Trichlorobenzene	10	9.7	ppbv	97			70	130	
	Hexachloro-1,3-butadiene	10	11.6	ppbv	116			70	130	
	Naphthalene	10	10.3	ppbv	103			70	130	
	1,3-Butadiene	10	10.5	ppbv	105			70	130	
	4-Ethyltoluene	10	10.1	ppbv	101			70	130	
	Hexane	10	10	ppbv	100			70	130	
	Allyl Chloride	10	10.3	ppbv	103			70	130	
	1,4-Dioxane	10	11.7	ppbv	117			70	130	
	Methyl methacrylate	10	12.1	ppbv	121			70	130	

Duplicate Sample Summary

Lab Sample Id :	I4984-05DUP	I4984-05
Client Id :	OUTDOOR-AIRDUP	OUTDOOR-AIR
DF :	1	1
Datafile :	VL030721.D	VL030720.D
Anal Date & Time :	08/28/2017 18:18	08/28/2017 17:36

Parameter	Result	Result	RPD
1,1,1-Trichloroethane	0	0	0
1,1,2,2-Tetrachloroethane	0	0	0
1,1,2-Trichloroethane	0	0	0
1,1,2-Trichlorotrifluoroethane	0	0	0
1,1-Dichloroethane	0	0	0
1,1-Dichloroethene	0	0	0
1,2,4-Trichlorobenzene	0	0	0
1,2,4-Trimethylbenzene	0.42	0.41	2.4
1,2-Dibromoethane	0	0	0
1,2-Dichlorobenzene	0	0	0
1,2-Dichloroethane	0	0	0
1,2-Dichloropropane	0	0	0
1,3,5-Trimethylbenzene	0.16	0.18	11.8
1,3-Butadiene	0	0	0
1,3-Dichlorobenzene	0	0	0
1,4-Dichlorobenzene	0	0	0
1,4-Dioxane	0	0	0
2,2,4-Trimethylpentane	4.4	4.3	2.3
2-Butanone	9	8.7	3.4
2-Chlorotoluene	0	0	0
4-Ethyltoluene	0.13	0.12	8
4-Methyl-2-Pentanone	0	0	0
Acetone	3.9	4.2	7.4
Allyl Chloride	0	0	0
Benzene	4.9	4.8	2.1
Bromodichloromethane	0	0	0
Bromoethene	0	0	0
Bromoform	0	0	0
Bromomethane	0	0	0
Carbon Disulfide	0	0	0

Duplicate Sample Summary

Lab Sample Id :	I4984-05DUP	I4984-05
Client Id :	OUTDOOR-AIRDUP	OUTDOOR-AIR
DF :	1	1
Datafile :	VL030721.D	VL030720.D
Anal Date & Time :	08/28/2017 18:18	08/28/2017 17:36

Parameter	Result	Result	RPD
Carbon Tetrachloride	0	0	0
Chlorobenzene	0	0	0
Chloroethane	0	0	0
Chloroform	0	0	0
Chloromethane	0.48	0.44	8.7
cis-1,2-Dichloroethene	0	0	0
cis-1,3-Dichloropropene	0	0	0
Cyclohexane	2.2	2.2	0
Dibromochloromethane	0	0	0
Dichlorodifluoromethane	0	0	0
Dichlorotetrafluoroethane	0	0	0
Ethyl Benzene	1.6	1.5	6.5
Heptane	4.6	4.6	0
Hexachloro-1,3-Butadiene	0	0	0
Hexane	22.6	22.1	2.2
m/p-Xylene	1.9	1.8	5.4
Methyl Methacrylate	0	0	0
Methyl tert-Butyl Ether	0	0	0
Methylene Chloride	2.3	1.1	70.6 *
Naphthalene	0	0	0
o-Xylene	0.66	0.64	3.1
Styrene	2.7	2.6	3.8
t-1,3-Dichloropropene	0	0	0
tert-Butyl alcohol	0	0	0
Tetrachloroethene	0.35	0.34	2.9
Tetrahydrofuran	9.6	9.4	2.1
Toluene	22	21.8	0.91
trans-1,2-Dichloroethene	0	0	0
Trichloroethene	0.23	0.21	9.1
Trichlorofluoromethane	0.23	0.23	0
Vinyl Chloride	0	0	0

Duplicate Sample Summary

Lab Sample Id :

I4984-05DUP

I4984-05

Client Id :

OUTDOOR-AIRDUP

OUTDOOR-AIR

DF :

1

1

Datafile :

VL030721.D

VL030720.D

Anal Date & Time :

08/28/2017

18:18

08/28/2017

17:36

Parameter	Result	Result	RPD

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VL0828ABL01

Lab Name: CHEMTECH

Contract: CHAZ02

Lab Code: CHEM Case No.: I4984

SAS No.: I4984 SDG NO.: I4984

Lab File ID: VL030711.D

Lab Sample ID: VL0828ABL01

Date Analyzed: 08/28/2017

Time Analyzed: 11:11

GC Column: RTX-1 ID: 0.32 (mm)

Heated Purge: (Y/N) N

Instrument ID: MSVOA_L

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
VL0828ABS01	VL0828ABS01	VL030712.D	08/28/2017
SV-09	I4984-01	VL030713.D	08/28/2017
SV-10	I4984-02	VL030714.D	08/28/2017
SV-11	I4984-03	VL030715.D	08/28/2017
SV-12DL	I4984-04DL	VL030716.D	08/28/2017
SV-13	I4984-06	VL030717.D	08/28/2017
SV-14	I4984-07	VL030718.D	08/28/2017
OUTDOOR-AIR	I4984-05	VL030720.D	08/28/2017
OUTDOOR-AIRDUP	I4984-05DUP	VL030721.D	08/28/2017
OUTDOOR-AIRDL	I4984-05DL	VL030722.D	08/28/2017
SV-09DL	I4984-01DL	VL030732.D	08/29/2017
SV-11DL	I4984-03DL	VL030734.D	08/29/2017
SV-12	I4984-04	VL030735.D	08/29/2017
SV-13DL	I4984-06DL	VL030736.D	08/29/2017

COMMENTS:

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VL0830ABL01

Lab Name: CHEMTECH

Contract: CHAZ02

Lab Code: CHEM Case No.: I4984

SAS No.: I4984 SDG NO.: I4984

Lab File ID: VL030740.D

Lab Sample ID: VL0830ABL01

Date Analyzed: 08/30/2017

Time Analyzed: 13:26

GC Column: RTX-1 ID: 0.32 (mm)

Heated Purge: (Y/N) N

Instrument ID: MSVOA_L

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
SV-10DL	I4984-02DL	VL030742.D	08/30/2017
SV-14DL	I4984-07DL	VL030743.D	08/30/2017
VL0830ABS02	VL0830ABS02	VL030760.D	08/31/2017

COMMENTS:

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name:	CHEMTECH		Contract:	CHAZ02	
Lab Code:	CHEM	Case No.:	I4984	SAS No.:	I4984
				SDG NO.:	I4984
Lab File ID:	VL030662.D		BFB Injection Date:	08/16/2017	
Instrument ID:	MSVOA_L		BFB Injection Time:	09:02	
GC Column:	RTX-1	ID:	0.32	(mm)	
				Heated Purge:	Y/N
					N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	27.4
75	30.0 - 66.0% of mass 95	63.2
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.9
173	Less than 2.0% of mass 174	0.9 (1.5) 1
174	50.0 - 120.0% of mass 95	60.1
175	4.0 - 9.0% of mass 174	4.3 (7.1) 1
176	93.0 - 101.0% of mass 174	58.6 (97.6) 1
177	5.0 - 9.0% of mass 176	3.9 (6.7) 2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDICCC010	VSTDICCC010	VL030663.D	08/16/2017	09:41
VSTDICCC002	VSTDICCC002	VL030664.D	08/16/2017	10:39
VSTDICCC001	VSTDICCC001	VL030665.D	08/16/2017	11:17
VSTDICCC0.5	VSTDICCC0.5	VL030666.D	08/16/2017	11:54
VSTDICCC0.1	VSTDICCC0.1	VL030667.D	08/16/2017	12:31
VSTDICCC0.03	VSTDICCC0.03	VL030668.D	08/16/2017	13:09
VSTDICCC015	VSTDICCC015	VL030669.D	08/16/2017	13:50

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name:	CHEMTECH		Contract:	CHAZ02	
Lab Code:	CHEM	Case No.:	I4984	SAS No.:	I4984
				SDG NO.:	I4984
Lab File ID:	VL030709.D		BFB Injection Date:	08/28/2017	
Instrument ID:	MSVOA_L		BFB Injection Time:	08:58	
GC Column:	RTX-1	ID:	0.32	(mm)	
				Heated Purge:	Y/N
					N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	26.7
75	30.0 - 66.0% of mass 95	60.3
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.7
173	Less than 2.0% of mass 174	0.3 (0.5) 1
174	50.0 - 120.0% of mass 95	59.4
175	4.0 - 9.0% of mass 174	4.7 (7.9) 1
176	93.0 - 101.0% of mass 174	56.7 (95.5) 1
177	5.0 - 9.0% of mass 176	3.4 (6.1) 2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC010	VSTDCCC010	VL030710.D	08/28/2017	09:36
VL0828ABL01	VL0828ABL01	VL030711.D	08/28/2017	11:11
VL0828ABS01	VL0828ABS01	VL030712.D	08/28/2017	11:50
SV-09	I4984-01	VL030713.D	08/28/2017	13:04
SV-10	I4984-02	VL030714.D	08/28/2017	13:42
SV-11	I4984-03	VL030715.D	08/28/2017	14:21
SV-12DL	I4984-04DL	VL030716.D	08/28/2017	15:00
SV-13	I4984-06	VL030717.D	08/28/2017	15:38
SV-14	I4984-07	VL030718.D	08/28/2017	16:17
OUTDOOR-AIR	I4984-05	VL030720.D	08/28/2017	17:36
OUTDOOR-AIRDUP	I4984-05DUP	VL030721.D	08/28/2017	18:18
OUTDOOR-AIRDL	I4984-05DL	VL030722.D	08/28/2017	18:56
SV-09DL	I4984-01DL	VL030732.D	08/29/2017	01:22
SV-11DL	I4984-03DL	VL030734.D	08/29/2017	02:38
SV-12	I4984-04	VL030735.D	08/29/2017	03:19
SV-13DL	I4984-06DL	VL030736.D	08/29/2017	03:57

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: <u>CHEMTECH</u>	Contract: <u>CHAZ02</u>
Lab Code: <u>CHEM</u> Case No.: <u>I4984</u>	SAS No.: <u>I4984</u> SDG NO.: <u>I4984</u>
Lab File ID: <u>VL030738.D</u>	BFB Injection Date: <u>08/30/2017</u>
Instrument ID: <u>MSVOA_L</u>	BFB Injection Time: <u>11:00</u>
GC Column: <u>RTX-1</u> ID: <u>0.32</u> (mm)	Heated Purge: Y/N <u>N</u>

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	27.5
75	30.0 - 66.0% of mass 95	62.2
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.5
173	Less than 2.0% of mass 174	0.9 (1.4) 1
174	50.0 - 120.0% of mass 95	59.9
175	4.0 - 9.0% of mass 174	4.6 (7.7) 1
176	93.0 - 101.0% of mass 174	55.8 (93.2) 1
177	5.0 - 9.0% of mass 176	3.8 (6.7) 2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC010	VSTDCCC010	VL030739.D	08/30/2017	11:39
VL0830ABL01	VL0830ABL01	VL030740.D	08/30/2017	13:26
SV-10DL	I4984-02DL	VL030742.D	08/30/2017	15:24
SV-14DL	I4984-07DL	VL030743.D	08/30/2017	16:02
VL0830ABS02	VL0830ABS02	VL030760.D	08/31/2017	03:42

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: CHAZ02
 Lab Code: CHEM Case No.: I4984 SAS No.: I4984 SDG NO.: I4984
 Lab File ID: VL030710.D Date Analyzed: 08/28/2017
 Instrument ID: MSVOA_L Time Analyzed: 09:36
 GC Column: RTX-1 ID: 0.32 (mm) Heated Purge: (Y/N) N

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	1226120	5.96	2629490	7.51	2645880	12.48
UPPER LIMIT	1716570	6.29	3681280	7.84	3704240	12.81
LOWER LIMIT	735671	5.63	1577690	7.18	1587530	12.15
EPA SAMPLE NO.						
SV-09	1244132	5.96	2539172	7.50	2457151	12.47
SV-09DL	972673	5.96	2029648	7.51	1931718	12.47
SV-10	1206814	5.96	2474012	7.51	2387489	12.47
SV-11	1218800	5.96	2453184	7.50	2391772	12.47
SV-11DL	990977	5.97	2047518	7.51	1955820	12.48
SV-12	999322	5.96	2086222	7.51	1899619	12.48
SV-12DL	1162652	5.96	2410473	7.50	2302842	12.47
OUTDOOR-AIR	1027095	5.96	2202761	7.51	2144946	12.48
OUTDOOR-AIRDL	1163855	5.96	2379492	7.50	2266229	12.47
OUTDOOR-AIRDUP	1013505	5.96	2193154	7.51	2179328	12.48
SV-13	1182553	5.96	2428713	7.51	2308885	12.47
SV-13DL	966757	5.96	1984928	7.51	1906234	12.48
SV-14	1179126	5.96	2448815	7.50	2324445	12.47
VL0828ABL01	1207114	5.96	2410238	7.50	2359141	12.48
VL0828ABS01	1200358	5.96	2560484	7.51	2682983	12.48

IS1 = Bromochloromethane
 IS2 = 1,4-Difluorobenzene
 IS3 = Chlorobenzene-d5

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

Column used to flag values outside QC limits with an asterisk.
 * Values outside of QC limits.

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: CHAZ02
 Lab Code: CHEM Case No.: I4984 SAS No.: I4984 SDG NO.: I4984
 Lab File ID: VL030739.D Date Analyzed: 08/30/2017
 Instrument ID: MSVOA_L Time Analyzed: 11:39
 GC Column: RTX-1 ID: 0.32 (mm) Heated Purge: (Y/N) N

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	1084820	5.96	2282790	7.51	2366860	12.48
UPPER LIMIT	1518740	6.29	3195900	7.84	3313600	12.81
LOWER LIMIT	650890	5.63	1369670	7.18	1420110	12.15
EPA SAMPLE NO.						
SV-10DL	1172627	5.96	2348252	7.50	2225916	12.48
SV-14DL	1097168	5.96	2173970	7.50	2140428	12.47
VL0830ABL01	1179852	5.96	2295600	7.50	2238582	12.47
VL0830ABS02	1158063	5.96	2625276	7.51	2634127	12.48

IS1 = Bromochloromethane
 IS2 = 1,4-Difluorobenzene
 IS3 = Chlorobenzene-d5

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

Column used to flag values outside QC limits with an asterisk.
 * Values outside of QC limits.

QC SAMPLE DATA

Report of Analysis

Client:	Chazen Companies	Date Collected:	
Project:	Air 81323.07 Karta	Date Received:	
Client Sample ID:	VL0828ABL01	SDG No.:	I4984
Lab Sample ID:	VL0828ABL01	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400	Units:	mL

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL030711.D	1		08/28/17 11:11	VL082817

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS								
75-71-8	Dichlorodifluoromethane	0.5	2.47	U	0.2	0.49	2.47	ug/m3
74-87-3	Chloromethane	0.5	1.03	U	0.04	0.21	1.03	ug/m3
75-01-4	Vinyl Chloride	0.03	0.08	U	0.05	0.08	0.08	ug/m3
74-83-9	Bromomethane	0.5	1.94	U	0.08	0.39	1.94	ug/m3
75-00-3	Chloroethane	0.5	1.32	U	0.08	0.26	1.32	ug/m3
109-99-9	Tetrahydrofuran	0.5	1.47	U	0.09	0.29	1.47	ug/m3
75-69-4	Trichlorofluoromethane	0.5	2.81	U	0.11	0.56	2.81	ug/m3
76-13-1	1,1,2-Trichlorotrifluoroethane	0.5	3.83	U	0.15	0.77	3.83	ug/m3
76-14-2	Dichlorotetrafluoroethane	0.5	3.49	U	0.14	0.7	3.49	ug/m3
593-60-2	Bromoethene	0.5	2.19	U	0.13	0.44	2.19	ug/m3
75-65-0	tert-Butyl alcohol	0.5	1.52	U	0.12	0.3	1.52	ug/m3
142-82-5	Heptane	0.5	2.05	U	0.08	0.41	2.05	ug/m3
75-35-4	1,1-Dichloroethene	0.5	1.98	U	0.08	0.4	1.98	ug/m3
67-64-1	Acetone	0.5	1.19	U	0.02	0.24	1.19	ug/m3
75-15-0	Carbon Disulfide	0.5	1.56	U	0.06	0.31	1.56	ug/m3
1634-04-4	Methyl tert-Butyl Ether	0.5	1.8	U	0.07	0.36	1.8	ug/m3
75-09-2	Methylene Chloride	0.16	0.56	J	0.07	0.35	1.74	ug/m3
156-60-5	trans-1,2-Dichloroethene	0.5	1.98	U	0.08	0.4	1.98	ug/m3
75-34-3	1,1-Dichloroethane	0.5	2.02	U	0.04	0.4	2.02	ug/m3
110-82-7	Cyclohexane	0.5	1.72	U	0.07	0.34	1.72	ug/m3
78-93-3	2-Butanone	0.5	1.47	U	0.06	0.29	1.47	ug/m3
56-23-5	Carbon Tetrachloride	0.03	0.19	U	0.13	0.19	0.19	ug/m3
156-59-2	cis-1,2-Dichloroethene	0.5	1.98	U	0.08	0.4	1.98	ug/m3
67-66-3	Chloroform	0.5	2.44	U	0.1	0.49	2.44	ug/m3
71-55-6	1,1,1-Trichloroethane	0.03	0.16	U	0.05	0.16	0.16	ug/m3
540-84-1	2,2,4-Trimethylpentane	0.5	2.34	U	0.09	0.47	2.34	ug/m3
71-43-2	Benzene	0.5	1.6	U	0.06	0.32	1.6	ug/m3
107-06-2	1,2-Dichloroethane	0.5	2.02	U	0.08	0.4	2.02	ug/m3
79-01-6	Trichloroethene	0.03	0.16	U	0.11	0.16	0.16	ug/m3
78-87-5	1,2-Dichloropropane	0.5	2.31	U	0.42	0.46	2.31	ug/m3
75-27-4	Bromodichloromethane	0.5	3.35	U	0.13	0.67	3.35	ug/m3
108-10-1	4-Methyl-2-Pentanone	0.5	2.05	U	0.08	0.41	2.05	ug/m3
108-88-3	Toluene	0.5	1.88	U	0.04	0.38	1.88	ug/m3
10061-02-6	t-1,3-Dichloropropene	0.5	2.27	U	0.09	0.45	2.27	ug/m3
10061-01-5	cis-1,3-Dichloropropene	0.5	2.27	U	0.09	0.45	2.27	ug/m3
79-00-5	1,1,2-Trichloroethane	0.5	2.73	U	0.11	0.55	2.73	ug/m3
124-48-1	Dibromochloromethane	0.5	4.26	U	0.09	0.85	4.26	ug/m3
106-93-4	1,2-Dibromoethane	0.5	3.84	U	0.15	0.77	3.84	ug/m3

Report of Analysis

Client:	Chazen Companies	Date Collected:	
Project:	Air 81323.07 Karta	Date Received:	
Client Sample ID:	VL0828ABL01	SDG No.:	I4984
Lab Sample ID:	VL0828ABL01	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400	Units:	mL

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL030711.D	1		08/28/17 11:11	VL082817

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOD	LOQ / CRQL	Units
127-18-4	Tetrachloroethene	0.03	0.2	U	0.14	0.2	0.2	ug/m3
108-90-7	Chlorobenzene	0.5	2.3	U	0.09	0.46	2.3	ug/m3
100-41-4	Ethyl Benzene	0.5	2.17	U	0.09	0.43	2.17	ug/m3
179601-23-1	m/p-Xylene	1	4.34	U	0.13	0.87	4.34	ug/m3
95-47-6	o-Xylene	0.5	2.17	U	0.09	0.43	2.17	ug/m3
100-42-5	Styrene	0.5	2.13	U	0.04	0.43	2.13	ug/m3
75-25-2	Bromoform	0.5	5.17	U	0.1	1.03	5.17	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	0.5	3.43	U	0.14	0.69	3.43	ug/m3
95-49-8	2-Chlorotoluene	0.5	2.59	U	0.1	0.52	2.59	ug/m3
108-67-8	1,3,5-Trimethylbenzene	0.5	2.46	U	0.1	0.49	2.46	ug/m3
95-63-6	1,2,4-Trimethylbenzene	0.5	2.46	U	0.1	0.49	2.46	ug/m3
541-73-1	1,3-Dichlorobenzene	0.5	3.01	U	0.12	0.6	3.01	ug/m3
106-46-7	1,4-Dichlorobenzene	0.5	3.01	U	0.18	0.6	3.01	ug/m3
95-50-1	1,2-Dichlorobenzene	0.5	3.01	U	0.12	0.6	3.01	ug/m3
120-82-1	1,2,4-Trichlorobenzene	0.5	3.71	U	0.3	0.74	3.71	ug/m3
87-68-3	Hexachloro-1,3-Butadiene	0.5	5.33	U	0.32	1.07	5.33	ug/m3
106-99-0	1,3-Butadiene	0.5	1.11	U	0.04	0.22	1.11	ug/m3
91-20-3	Naphthalene	0.5	2.62	U	0.21	0.52	2.62	ug/m3
622-96-8	4-Ethyltoluene	0.5	2.46	U	0.1	0.49	2.46	ug/m3
110-54-3	Hexane	0.5	1.76	U	0.07	0.35	1.76	ug/m3
107-05-1	Allyl Chloride	0.5	1.57	U	0.13	0.31	1.57	ug/m3
123-91-1	1,4-Dioxane	0.5	1.8	U	0.36	1.44	1.8	ug/m3
80-62-6	Methyl Methacrylate	0.5	2.05	U	0.08	0.41	2.05	ug/m3
SURROGATES								
460-00-4	1-Bromo-4-Fluorobenzene	10.2			65 - 135		102%	SPK: 10
INTERNAL STANDARDS								
74-97-5	Bromochloromethane	1207110		5.96				
540-36-3	1,4-Difluorobenzene	2410240		7.5				
3114-55-4	Chlorobenzene-d5	2359140		12.48				

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

D = Dilution

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

Q = indicates LCS control criteria did not meet requirements

Report of Analysis

Client:	Chazen Companies	Date Collected:	
Project:	Air 81323.07 Karta	Date Received:	
Client Sample ID:	VL0830ABL01	SDG No.:	I4984
Lab Sample ID:	VL0830ABL01	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400	Units:	mL

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL030740.D	1		08/30/17 13:26	VL083017

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS								
75-71-8	Dichlorodifluoromethane	0.5	2.47	U	0.2	0.49	2.47	ug/m3
74-87-3	Chloromethane	0.5	1.03	U	0.04	0.21	1.03	ug/m3
75-01-4	Vinyl Chloride	0.03	0.08	U	0.05	0.08	0.08	ug/m3
74-83-9	Bromomethane	0.5	1.94	U	0.08	0.39	1.94	ug/m3
75-00-3	Chloroethane	0.5	1.32	U	0.08	0.26	1.32	ug/m3
109-99-9	Tetrahydrofuran	0.5	1.47	U	0.09	0.29	1.47	ug/m3
75-69-4	Trichlorofluoromethane	0.5	2.81	U	0.11	0.56	2.81	ug/m3
76-13-1	1,1,2-Trichlorotrifluoroethane	0.5	3.83	U	0.15	0.77	3.83	ug/m3
76-14-2	Dichlorotetrafluoroethane	0.5	3.49	U	0.14	0.7	3.49	ug/m3
593-60-2	Bromoethene	0.5	2.19	U	0.13	0.44	2.19	ug/m3
75-65-0	tert-Butyl alcohol	0.5	1.52	U	0.12	0.3	1.52	ug/m3
142-82-5	Heptane	0.5	2.05	U	0.08	0.41	2.05	ug/m3
75-35-4	1,1-Dichloroethene	0.5	1.98	U	0.08	0.4	1.98	ug/m3
67-64-1	Acetone	0.5	1.19	U	0.02	0.24	1.19	ug/m3
75-15-0	Carbon Disulfide	0.5	1.56	U	0.06	0.31	1.56	ug/m3
1634-04-4	Methyl tert-Butyl Ether	0.5	1.8	U	0.07	0.36	1.8	ug/m3
75-09-2	Methylene Chloride	0.28	0.97	J	0.07	0.35	1.74	ug/m3
156-60-5	trans-1,2-Dichloroethene	0.5	1.98	U	0.08	0.4	1.98	ug/m3
75-34-3	1,1-Dichloroethane	0.5	2.02	U	0.04	0.4	2.02	ug/m3
110-82-7	Cyclohexane	0.5	1.72	U	0.07	0.34	1.72	ug/m3
78-93-3	2-Butanone	0.5	1.47	U	0.06	0.29	1.47	ug/m3
56-23-5	Carbon Tetrachloride	0.03	0.19	U	0.13	0.19	0.19	ug/m3
156-59-2	cis-1,2-Dichloroethene	0.5	1.98	U	0.08	0.4	1.98	ug/m3
67-66-3	Chloroform	0.5	2.44	U	0.1	0.49	2.44	ug/m3
71-55-6	1,1,1-Trichloroethane	0.03	0.16	U	0.05	0.16	0.16	ug/m3
540-84-1	2,2,4-Trimethylpentane	0.5	2.34	U	0.09	0.47	2.34	ug/m3
71-43-2	Benzene	0.5	1.6	U	0.06	0.32	1.6	ug/m3
107-06-2	1,2-Dichloroethane	0.5	2.02	U	0.08	0.4	2.02	ug/m3
79-01-6	Trichloroethene	0.03	0.16	U	0.11	0.16	0.16	ug/m3
78-87-5	1,2-Dichloropropane	0.5	2.31	U	0.42	0.46	2.31	ug/m3
75-27-4	Bromodichloromethane	0.5	3.35	U	0.13	0.67	3.35	ug/m3
108-10-1	4-Methyl-2-Pentanone	0.5	2.05	U	0.08	0.41	2.05	ug/m3
108-88-3	Toluene	0.5	1.88	U	0.04	0.38	1.88	ug/m3
10061-02-6	t-1,3-Dichloropropene	0.5	2.27	U	0.09	0.45	2.27	ug/m3
10061-01-5	cis-1,3-Dichloropropene	0.5	2.27	U	0.09	0.45	2.27	ug/m3
79-00-5	1,1,2-Trichloroethane	0.5	2.73	U	0.11	0.55	2.73	ug/m3
124-48-1	Dibromochloromethane	0.5	4.26	U	0.09	0.85	4.26	ug/m3
106-93-4	1,2-Dibromoethane	0.5	3.84	U	0.15	0.77	3.84	ug/m3

Report of Analysis

Client:	Chazen Companies	Date Collected:	
Project:	Air 81323.07 Karta	Date Received:	
Client Sample ID:	VL0830ABL01	SDG No.:	I4984
Lab Sample ID:	VL0830ABL01	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400	Units:	mL

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL030740.D	1		08/30/17 13:26	VL083017

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOD	LOQ / CRQL	Units
127-18-4	Tetrachloroethene	0.03	0.2	U	0.14	0.2	0.2	ug/m3
108-90-7	Chlorobenzene	0.5	2.3	U	0.09	0.46	2.3	ug/m3
100-41-4	Ethyl Benzene	0.5	2.17	U	0.09	0.43	2.17	ug/m3
179601-23-1	m/p-Xylene	1	4.34	U	0.13	0.87	4.34	ug/m3
95-47-6	o-Xylene	0.5	2.17	U	0.09	0.43	2.17	ug/m3
100-42-5	Styrene	0.5	2.13	U	0.04	0.43	2.13	ug/m3
75-25-2	Bromoform	0.5	5.17	U	0.1	1.03	5.17	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	0.5	3.43	U	0.14	0.69	3.43	ug/m3
95-49-8	2-Chlorotoluene	0.5	2.59	U	0.1	0.52	2.59	ug/m3
108-67-8	1,3,5-Trimethylbenzene	0.5	2.46	U	0.1	0.49	2.46	ug/m3
95-63-6	1,2,4-Trimethylbenzene	0.5	2.46	U	0.1	0.49	2.46	ug/m3
541-73-1	1,3-Dichlorobenzene	0.5	3.01	U	0.12	0.6	3.01	ug/m3
106-46-7	1,4-Dichlorobenzene	0.5	3.01	U	0.18	0.6	3.01	ug/m3
95-50-1	1,2-Dichlorobenzene	0.5	3.01	U	0.12	0.6	3.01	ug/m3
120-82-1	1,2,4-Trichlorobenzene	0.5	3.71	U	0.3	0.74	3.71	ug/m3
87-68-3	Hexachloro-1,3-Butadiene	0.5	5.33	U	0.32	1.07	5.33	ug/m3
106-99-0	1,3-Butadiene	0.5	1.11	U	0.04	0.22	1.11	ug/m3
91-20-3	Naphthalene	0.5	2.62	U	0.21	0.52	2.62	ug/m3
622-96-8	4-Ethyltoluene	0.5	2.46	U	0.1	0.49	2.46	ug/m3
110-54-3	Hexane	0.5	1.76	U	0.07	0.35	1.76	ug/m3
107-05-1	Allyl Chloride	0.5	1.57	U	0.13	0.31	1.57	ug/m3
123-91-1	1,4-Dioxane	0.5	1.8	U	0.36	1.44	1.8	ug/m3
80-62-6	Methyl Methacrylate	0.5	2.05	U	0.08	0.41	2.05	ug/m3
SURROGATES								
460-00-4	1-Bromo-4-Fluorobenzene	10			65 - 135		100%	SPK: 10
INTERNAL STANDARDS								
74-97-5	Bromochloromethane	1179850		5.96				
540-36-3	1,4-Difluorobenzene	2295600		7.5				
3114-55-4	Chlorobenzene-d5	2238580		12.47				

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

D = Dilution

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

Q = indicates LCS control criteria did not meet requirements

Report of Analysis

Client:	Chazen Companies	Date Collected:	
Project:	Air 81323.07 Karta	Date Received:	
Client Sample ID:	VL0828ABS01	SDG No.:	I4984
Lab Sample ID:	VL0828ABS01	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400	Units:	mL

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL030712.D	1		08/28/17 11:50	VL082817

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS								
75-71-8	Dichlorodifluoromethane	8	39.6		0.2	0.49	2.47	ug/m3
74-87-3	Chloromethane	8.3	17.1		0.04	0.21	1.03	ug/m3
75-01-4	Vinyl Chloride	8.7	22.2		0.05	0.08	0.08	ug/m3
74-83-9	Bromomethane	8.3	32.2		0.08	0.39	1.94	ug/m3
75-00-3	Chloroethane	8.4	22.2		0.08	0.26	1.32	ug/m3
109-99-9	Tetrahydrofuran	10	29.5		0.09	0.29	1.47	ug/m3
75-69-4	Trichlorofluoromethane	8.2	46.1		0.11	0.56	2.81	ug/m3
76-13-1	1,1,2-Trichlorotrifluoroethane	8.7	66.7		0.15	0.77	3.83	ug/m3
76-14-2	Dichlorotetrafluoroethane	8.1	56.6		0.14	0.7	3.49	ug/m3
593-60-2	Bromoethene	8.5	37.2		0.13	0.44	2.19	ug/m3
75-65-0	tert-Butyl alcohol	7.8	23.6		0.12	0.3	1.52	ug/m3
142-82-5	Heptane	9.7	39.8		0.08	0.41	2.05	ug/m3
75-35-4	1,1-Dichloroethene	8.4	33.3		0.08	0.4	1.98	ug/m3
67-64-1	Acetone	7.1	16.9		0.02	0.24	1.19	ug/m3
75-15-0	Carbon Disulfide	9.5	29.6		0.06	0.31	1.56	ug/m3
1634-04-4	Methyl tert-Butyl Ether	9.5	34.2		0.07	0.36	1.8	ug/m3
75-09-2	Methylene Chloride	7.8	27.1		0.07	0.35	1.74	ug/m3
156-60-5	trans-1,2-Dichloroethene	8.7	34.5		0.08	0.4	1.98	ug/m3
75-34-3	1,1-Dichloroethane	9	36.4		0.04	0.4	2.02	ug/m3
110-82-7	Cyclohexane	9.1	31.3		0.07	0.34	1.72	ug/m3
78-93-3	2-Butanone	9.5	28.0		0.06	0.29	1.47	ug/m3
56-23-5	Carbon Tetrachloride	9.4	59.1		0.13	0.19	0.19	ug/m3
156-59-2	cis-1,2-Dichloroethene	9.4	37.3		0.08	0.4	1.98	ug/m3
67-66-3	Chloroform	9.1	44.4		0.1	0.49	2.44	ug/m3
71-55-6	1,1,1-Trichloroethane	9.3	50.7		0.05	0.16	0.16	ug/m3
540-84-1	2,2,4-Trimethylpentane	10.6	49.5		0.09	0.47	2.34	ug/m3
71-43-2	Benzene	9.4	30.0		0.06	0.32	1.6	ug/m3
107-06-2	1,2-Dichloroethane	9.5	38.4		0.08	0.4	2.02	ug/m3
79-01-6	Trichloroethene	9.9	53.2		0.11	0.16	0.16	ug/m3
78-87-5	1,2-Dichloropropane	9.4	43.4		0.42	0.46	2.31	ug/m3
75-27-4	Bromodichloromethane	11.3	75.7		0.13	0.67	3.35	ug/m3
108-10-1	4-Methyl-2-Pentanone	9.8	40.2		0.08	0.41	2.05	ug/m3
108-88-3	Toluene	9.2	34.7		0.04	0.38	1.88	ug/m3
10061-02-6	t-1,3-Dichloropropene	9.2	41.8		0.09	0.45	2.27	ug/m3
10061-01-5	cis-1,3-Dichloropropene	10	45.4		0.09	0.45	2.27	ug/m3
79-00-5	1,1,2-Trichloroethane	8.9	48.6		0.11	0.55	2.73	ug/m3
124-48-1	Dibromochloromethane	9.8	83.5		0.09	0.85	4.26	ug/m3
106-93-4	1,2-Dibromoethane	9.2	70.7		0.15	0.77	3.84	ug/m3

Report of Analysis

Client:	Chazen Companies	Date Collected:	
Project:	Air 81323.07 Karta	Date Received:	
Client Sample ID:	VL0828ABS01	SDG No.:	I4984
Lab Sample ID:	VL0828ABS01	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400	Units:	mL

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL030712.D	1		08/28/17 11:50	VL082817

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOD	LOQ / CRQL	Units
127-18-4	Tetrachloroethene	9.1	61.7		0.14	0.2	0.2	ug/m3
108-90-7	Chlorobenzene	8.7	40.1		0.09	0.46	2.3	ug/m3
100-41-4	Ethyl Benzene	9.3	40.4		0.09	0.43	2.17	ug/m3
179601-23-1	m/p-Xylene	18.1	78.6		0.13	0.87	4.34	ug/m3
95-47-6	o-Xylene	8.9	38.7		0.09	0.43	2.17	ug/m3
100-42-5	Styrene	9.7	41.3		0.04	0.43	2.13	ug/m3
75-25-2	Bromoform	9.5	98.2		0.1	1.03	5.17	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	8.2	56.3		0.14	0.69	3.43	ug/m3
95-49-8	2-Chlorotoluene	9.2	47.6		0.1	0.52	2.59	ug/m3
108-67-8	1,3,5-Trimethylbenzene	9.2	45.2		0.1	0.49	2.46	ug/m3
95-63-6	1,2,4-Trimethylbenzene	8.8	43.3		0.1	0.49	2.46	ug/m3
541-73-1	1,3-Dichlorobenzene	8.5	51.1		0.12	0.6	3.01	ug/m3
106-46-7	1,4-Dichlorobenzene	8.7	52.3		0.18	0.6	3.01	ug/m3
95-50-1	1,2-Dichlorobenzene	8.7	52.3		0.12	0.6	3.01	ug/m3
120-82-1	1,2,4-Trichlorobenzene	8.7	64.6		0.3	0.74	3.71	ug/m3
87-68-3	Hexachloro-1,3-Butadiene	11	117		0.32	1.07	5.33	ug/m3
106-99-0	1,3-Butadiene	9.7	21.5		0.04	0.22	1.11	ug/m3
91-20-3	Naphthalene	9.6	50.3		0.21	0.52	2.62	ug/m3
622-96-8	4-Ethyltoluene	9.4	46.2		0.1	0.49	2.46	ug/m3
110-54-3	Hexane	9.1	32.1		0.07	0.35	1.76	ug/m3
107-05-1	Allyl Chloride	8.7	27.2		0.13	0.31	1.57	ug/m3
123-91-1	1,4-Dioxane	10.1	36.4		0.36	1.44	1.8	ug/m3
80-62-6	Methyl Methacrylate	11.2	45.9		0.08	0.41	2.05	ug/m3
SURROGATES								
460-00-4	1-Bromo-4-Fluorobenzene	9.5			65 - 135		95%	SPK: 10
INTERNAL STANDARDS								
74-97-5	Bromochloromethane	1200360		5.96				
540-36-3	1,4-Difluorobenzene	2560480		7.51				
3114-55-4	Chlorobenzene-d5	2682980		12.48				

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

D = Dilution

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

Q = indicates LCS control criteria did not meet requirements

Report of Analysis

Client:	Chazen Companies	Date Collected:	
Project:	Air 81323.07 Karta	Date Received:	
Client Sample ID:	VL0830ABS02	SDG No.:	I4984
Lab Sample ID:	VL0830ABS02	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400	Units:	mL

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL030760.D	1		08/31/17 03:42	VL083017

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS								
75-71-8	Dichlorodifluoromethane	8.3	41.0		0.2	0.49	2.47	ug/m3
74-87-3	Chloromethane	9.3	19.2		0.04	0.21	1.03	ug/m3
75-01-4	Vinyl Chloride	9.9	25.3		0.05	0.08	0.08	ug/m3
74-83-9	Bromomethane	9.2	35.7		0.08	0.39	1.94	ug/m3
75-00-3	Chloroethane	9.4	24.8		0.08	0.26	1.32	ug/m3
109-99-9	Tetrahydrofuran	10.7	31.6		0.09	0.29	1.47	ug/m3
75-69-4	Trichlorofluoromethane	8.7	48.9		0.11	0.56	2.81	ug/m3
76-13-1	1,1,2-Trichlorotrifluoroethane	9.5	72.8		0.15	0.77	3.83	ug/m3
76-14-2	Dichlorotetrafluoroethane	9	62.9		0.14	0.7	3.49	ug/m3
593-60-2	Bromoethene	9.7	42.4		0.13	0.44	2.19	ug/m3
75-65-0	tert-Butyl alcohol	10.3	31.2		0.12	0.3	1.52	ug/m3
142-82-5	Heptane	10.9	44.7		0.08	0.41	2.05	ug/m3
75-35-4	1,1-Dichloroethene	9.5	37.7		0.08	0.4	1.98	ug/m3
67-64-1	Acetone	8	19		0.02	0.24	1.19	ug/m3
75-15-0	Carbon Disulfide	10.7	33.3		0.06	0.31	1.56	ug/m3
1634-04-4	Methyl tert-Butyl Ether	10.7	38.6		0.07	0.36	1.8	ug/m3
75-09-2	Methylene Chloride	8.7	30.2		0.07	0.35	1.74	ug/m3
156-60-5	trans-1,2-Dichloroethene	9.8	38.9		0.08	0.4	1.98	ug/m3
75-34-3	1,1-Dichloroethane	9.6	38.9		0.04	0.4	2.02	ug/m3
110-82-7	Cyclohexane	10.3	35.4		0.07	0.34	1.72	ug/m3
78-93-3	2-Butanone	10.5	31.0		0.06	0.29	1.47	ug/m3
56-23-5	Carbon Tetrachloride	9.7	61.0		0.13	0.19	0.19	ug/m3
156-59-2	cis-1,2-Dichloroethene	10.4	41.2		0.08	0.4	1.98	ug/m3
67-66-3	Chloroform	9.8	47.9		0.1	0.49	2.44	ug/m3
71-55-6	1,1,1-Trichloroethane	10	54.6		0.05	0.16	0.16	ug/m3
540-84-1	2,2,4-Trimethylpentane	11	51.4		0.09	0.47	2.34	ug/m3
71-43-2	Benzene	9.9	31.6		0.06	0.32	1.6	ug/m3
107-06-2	1,2-Dichloroethane	9.6	38.9		0.08	0.4	2.02	ug/m3
79-01-6	Trichloroethene	10.7	57.5		0.11	0.16	0.16	ug/m3
78-87-5	1,2-Dichloropropane	13	60.1		0.42	0.46	2.31	ug/m3
75-27-4	Bromodichloromethane	11.6	77.7		0.13	0.67	3.35	ug/m3
108-10-1	4-Methyl-2-Pentanone	8.1	33.2		0.08	0.41	2.05	ug/m3
108-88-3	Toluene	9.6	36.2		0.04	0.38	1.88	ug/m3
10061-02-6	t-1,3-Dichloropropene	9.9	44.9		0.09	0.45	2.27	ug/m3
10061-01-5	cis-1,3-Dichloropropene	8.5	38.6		0.09	0.45	2.27	ug/m3
79-00-5	1,1,2-Trichloroethane	9.2	50.2		0.11	0.55	2.73	ug/m3
124-48-1	Dibromochloromethane	10.1	86.0		0.09	0.85	4.26	ug/m3
106-93-4	1,2-Dibromoethane	9.7	74.6		0.15	0.77	3.84	ug/m3

Report of Analysis

Client:	Chazen Companies	Date Collected:	
Project:	Air 81323.07 Karta	Date Received:	
Client Sample ID:	VL0830ABS02	SDG No.:	I4984
Lab Sample ID:	VL0830ABS02	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400	Units:	mL

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL030760.D	1		08/31/17 03:42	VL083017

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOD	LOQ / CRQL	Units
127-18-4	Tetrachloroethene	9.8	66.5		0.14	0.2	0.2	ug/m3
108-90-7	Chlorobenzene	9.7	44.7		0.09	0.46	2.3	ug/m3
100-41-4	Ethyl Benzene	10.1	43.9		0.09	0.43	2.17	ug/m3
179601-23-1	m/p-Xylene	19.6	85.1		0.13	0.87	4.34	ug/m3
95-47-6	o-Xylene	9.6	41.7		0.09	0.43	2.17	ug/m3
100-42-5	Styrene	11.1	47.3		0.04	0.43	2.13	ug/m3
75-25-2	Bromoform	10.3	106		0.1	1.03	5.17	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	8.8	60.4		0.14	0.69	3.43	ug/m3
95-49-8	2-Chlorotoluene	9.7	50.2		0.1	0.52	2.59	ug/m3
108-67-8	1,3,5-Trimethylbenzene	9.7	47.7		0.1	0.49	2.46	ug/m3
95-63-6	1,2,4-Trimethylbenzene	9.5	46.7		0.1	0.49	2.46	ug/m3
541-73-1	1,3-Dichlorobenzene	9.3	55.9		0.12	0.6	3.01	ug/m3
106-46-7	1,4-Dichlorobenzene	9.6	57.7		0.18	0.6	3.01	ug/m3
95-50-1	1,2-Dichlorobenzene	9.4	56.5		0.12	0.6	3.01	ug/m3
120-82-1	1,2,4-Trichlorobenzene	9.7	72.0		0.3	0.74	3.71	ug/m3
87-68-3	Hexachloro-1,3-Butadiene	11.6	123		0.32	1.07	5.33	ug/m3
106-99-0	1,3-Butadiene	10.5	23.2		0.04	0.22	1.11	ug/m3
91-20-3	Naphthalene	10.3	54.0		0.21	0.52	2.62	ug/m3
622-96-8	4-Ethyltoluene	10.1	49.6		0.1	0.49	2.46	ug/m3
110-54-3	Hexane	10	35.2		0.07	0.35	1.76	ug/m3
107-05-1	Allyl Chloride	10.3	32.2		0.13	0.31	1.57	ug/m3
123-91-1	1,4-Dioxane	11.7	42.2		0.36	1.44	1.8	ug/m3
80-62-6	Methyl Methacrylate	12.1	49.6		0.08	0.41	2.05	ug/m3
SURROGATES								
460-00-4	1-Bromo-4-Fluorobenzene	9.4			65 - 135		94%	SPK: 10
INTERNAL STANDARDS								
74-97-5	Bromochloromethane	1158060		5.96				
540-36-3	1,4-Difluorobenzene	2625280		7.51				
3114-55-4	Chlorobenzene-d5	2634130		12.48				

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

D = Dilution

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

Q = indicates LCS control criteria did not meet requirements

CALIBRATION SUMMARY

Method Path : W:\HPCHEM1\MSVOA_L\METHODS\

Method File : VL081617AIR.M

Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Thu Aug 17 07:01:17 2017

Last Update : Thu Aug 17 07:01:17 2017

Response Via : Initial Calibration

Calibration Files

0.03=VL030668.D 0.1 =VL030667.D 0.5 =VL030666.D 1 =VL030665.D 2 =VL030664.D 10 =VL030663.D 15 =VL030669.D

	Compound	0.03	0.1	0.5	1	2	10	15	Avg	%RSD
1) I	Bromochloromethane	-----ISTD-----								
2) T	Dichlorodifluo...		2.374	2.631	2.609	2.309	2.113	2.407	9.01	
3)	Chlorodifluoro...		1.539	1.634	1.649	1.539	1.428	1.558	5.72	
4)	Chloromethane		0.692	0.682	0.797	0.746	0.665	0.716	7.62	
5) T	Vinyl Chloride	0.605	0.628	0.653	0.674	0.778	0.719	0.634	0.670	8.97
6) T	Bromomethane		0.439	0.443	0.493	0.431	0.389	0.439	8.45	
7)	Chloroethane		0.276	0.286	0.306	0.292	0.263	0.285	5.74	
8) T	Dichlorotetra...		1.759	1.781	2.023	1.732	1.489	1.757	10.79	
9) T	Propene		0.581	0.666	0.688	0.653	0.619	0.641	6.55	
10) T	Heptane		2.067	2.161	2.011	2.101	2.017	2.071	3.02	
11) T	Trichlorofluor...		1.853	1.890	2.225	1.853	1.639	1.892	11.15	
12) T	1,1,2-Trichlor...		1.079	1.096	1.387	1.089	1.010	1.132	12.95	
13)	Ethanol		0.126	0.126	0.143	0.121	0.100	0.123	12.43	
14) T	Bromoethene		0.450	0.428	0.572	0.490	0.444	0.477	12.10	
15) T	Acetone		2.115	1.832	2.106	1.478	1.337	1.774	20.10	
16) T	1,3-Butadiene		0.726	0.724	1.065	0.990	0.875	0.876	17.51	
17)	tert-Butyl alc...		0.702	0.742	0.865	0.843	0.677	0.766	10.98	
18) T	1,1-Dichloroet...		0.486	0.483	0.621	0.531	0.465	0.517	12.19	
19) T	Isopropyl Alcohol		0.806	0.774	0.851	0.816	0.666	0.782	9.04	
20) T	Methylene Chlo...		0.586	0.516	0.699	0.504	0.430	0.547	18.58	
21) T	Allyl Chloride		0.850	0.849	1.094	0.983	0.869	0.929	11.59	
22) T	trans-1,2-Dich...		0.531	0.541	0.693	0.605	0.523	0.579	12.35	
23) T	Vinyl Acetate		1.949	2.136	2.277	2.021	1.801	2.037	8.90	
24) T	1,1-Dichloroet...		1.585	1.516	1.916	1.393	1.344	1.551	14.55	
25) T	Ethyl Acetate		2.598	2.732	2.980	2.445	2.459	2.643	8.38	
26) T	Hexane		1.112	1.202	1.337	1.041	1.042	1.147	10.90	
27) T	Carbon Disulfide		1.068	1.133	1.610	1.384	1.338	1.307	16.51	
28) T	Methyl tert-Bu...		1.293	1.347	1.680	1.381	1.327	1.406	11.15	
29) T	Chloroform		1.917	1.776	1.963	1.651	1.619	1.785	8.63	
30) T	Cyclohexane		0.873	0.876	1.026	0.988	0.870	0.926	8.03	
31) T	cis-1,2-Dichlo...		0.992	1.009	1.307	1.023	1.026	1.072	12.34	
32) T	1,1,1-Trichlor...	1.768	1.712	1.720	1.727	1.940	1.871	1.661	1.771	5.58
33) I	1,4-Difluorobenzene	-----ISTD-----								
34) T	2-Butanone		0.782	0.830	0.848	0.682	0.767	0.782	8.28	
35) T	Carbon Tetrach...	0.940	0.750	0.794	0.821	0.936	0.788	0.773	0.829	9.38
36) T	Benzene		0.986	1.041	1.161	0.972	0.970	1.026	7.89	
37) T	1,2-Dichloroet...		0.769	0.750	0.745	0.687	0.708	0.732	4.59	

Method	Path : W:\HPCHEM1\MSVOA_L\METHODS\
Method	File : VL081617AIR.M
38) T	Trichloroethene 0.579 0.477 0.482 0.503 0.432 0.403 0.343 0.460 16.49
39) T	1,2-Dichloropr... 0.354 0.378 0.423 0.361 0.349 0.373 8.09
40) T	1,4-Dioxane 0.144 0.181 0.132 0.133 0.110 0.140 18.58
41) T	Tetrahydrofuran 0.377 0.430 0.438 0.401 0.421 0.413 5.93
42) T	Bromodichlorom... 1.045 1.139 0.971 0.820 0.798 0.955 15.27
43)	Methyl Methacr... 0.431 0.480 0.416 0.446 0.371 0.429 9.31
44) T	2,2,4-Trimethy... 2.277 2.368 2.059 1.937 1.560 2.040 15.60
45) T	t-1,3-Dichloro... 0.432 0.490 0.704 0.580 0.750 0.591 22.93
46) T	cis-1,3-Dichlo... 0.758 0.800 0.881 0.782 0.861 0.816 6.41
47) T	1,1,2-Trichlor... 0.441 0.429 0.571 0.402 0.393 0.447 16.08
48) T	Dibromochlorom... 0.611 0.657 0.775 0.684 0.676 0.681 8.77
49) T	Bromoform 0.477 0.497 0.592 0.521 0.562 0.530 8.86
50) T	4-Methyl-2-Pen... 1.240 1.325 1.410 1.164 1.288 1.285 7.16
51) T	2-Hexanone 0.815 0.895 1.062 0.975 0.978 0.945 9.93
52) T	Tetrachloroethene 0.362 0.353 0.390 0.380 0.423 0.349 0.348 0.372 7.40
53) T	Toluene 1.074 1.187 1.572 1.154 1.139 1.225 16.17
54) T	1,2-Dibromoethane 0.606 0.660 0.725 0.621 0.605 0.643 7.90
55) I	Chlorobenzene-d5 -----ISTD-----
56)	1,1,1,2-Tetrac... 0.509 0.510 0.545 0.437 0.425 0.485 10.70
57) T	Chlorobenzene 1.046 0.995 1.047 0.821 0.800 0.942 12.93
58) T	Ethyl Benzene 1.622 1.718 1.823 1.529 1.488 1.636 8.38
59) T	m/p-Xylene 1.399 1.467 1.546 1.253 1.243 1.382 9.61
60) T	o-Xylene 1.438 1.482 1.583 1.257 1.242 1.400 10.52
61) T	Styrene 0.281 0.297 0.337 0.321 0.336 0.314 7.77
62)	Isopropylbenzene 1.774 1.874 1.940 1.589 1.576 1.751 9.41
63) T	1,1,2,2-Tetrac... 1.138 1.074 1.062 1.054 1.060 0.817 0.813 1.003 13.09
64)	n-propylbenzene 0.429 0.438 0.470 0.381 0.391 0.422 8.59
65)	tert-Butylbenzene 1.557 1.666 1.724 1.381 1.349 1.536 10.88
66) T	Benzyl Chloride 0.146 0.149 0.166 0.183 0.187 0.166 11.24
67)	sec-Butylbenzene 2.196 2.335 2.489 1.925 1.891 2.167 11.93
68) S	1-Bromo-4-Fluo... 0.848 0.838 0.831 0.809 0.767 0.765 0.792 0.807 4.18
69)	p-Isopropyltol... 1.782 1.912 2.049 1.640 1.603 1.797 10.37
70)	n-Butylbenzene 1.923 2.065 2.168 1.691 1.621 1.894 12.42
71)	2-Chlorotoluene 1.349 1.493 1.530 1.234 1.223 1.366 10.42
72) T	4-Ethyltoluene 1.357 1.495 1.607 1.325 1.320 1.421 8.89
73) T	1,3,5-Trimethy... 1.265 1.418 1.474 1.196 1.192 1.309 9.93
74) T	1,2,4-Trimethy... 1.505 1.584 1.618 1.260 1.230 1.439 12.69
75) T	1,3-Dichlorobe... 0.969 0.966 0.997 0.761 0.775 0.894 12.90
76) T	1,4-Dichlorobe... 0.905 0.943 1.022 0.786 0.789 0.889 11.47
77) T	1,2-Dichlorobe... 0.938 0.982 0.969 0.777 0.769 0.887 11.89
78) T	Hexachloro-1,3... 0.429 0.412 0.433 0.452 0.314 0.408 13.40
79) T	Naphthalene 0.925 1.064 1.249 1.003 1.003 1.049 11.68
80) T	Naphthalene,2-... 0.274 0.385 0.556 0.489 0.482 0.437 25.12
81) T	1,2,4-Trichlor... 0.568 0.631 0.677 0.522 0.528 0.585 11.51

(#) = Out of Range

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: CHAZ02
 Lab Code: CHEM Case No.: I4984 SAS No.: I4984 SDG No.: I4984
 Instrument ID: MSVOA_L Calibration Date/Time: 08/28/2017 09:36
 Lab File ID: VL030710.D Init. Calib. Date(s): 08/16/2017 08/16/2017
 Heated Purge: (Y/N) N Init. Calib. Time(s): 09:41 13:50
 GC Column: RTX-1 ID: 0.32 (mm)

COMPOUND	RRF	RRF010	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	2.407	2.368		-1.62	30
Chloromethane	0.716	0.757		5.73	30
Vinyl Chloride	0.670	0.694		3.58	30
Bromomethane	0.439	0.400		-8.88	30
Chloroethane	0.285	0.253		-11.23	30
Tetrahydrofuran	0.413	0.446		7.99	30
Trichlorofluoromethane	1.892	1.620		-14.38	30
1,1,2-Trichlorotrifluoroethane	1.132	1.027		-9.28	30
Dichlorotetrafluoroethane	1.757	1.738		-1.08	30
Bromoethene	0.477	0.435		-8.81	30
tert-Butyl alcohol	0.766	0.734		-4.18	30
Heptane	2.071	2.069		-0.1	30
1,1-Dichloroethene	0.517	0.467		-9.67	30
Acetone	1.774	1.364		-23.11	30
Carbon Disulfide	1.307	1.299		-0.61	30
Methyl tert-Butyl Ether	1.406	1.385		-1.49	30
Methylene Chloride	0.547	0.445		-18.65	30
trans-1,2-Dichloroethene	0.579	0.534		-7.77	30
1,1-Dichloroethane	1.551	1.427		-7.99	30
Cyclohexane	0.926	0.877		-5.29	30
2-Butanone	0.782	0.787		0.64	30
Carbon Tetrachloride	0.829	0.811		-2.17	30
cis-1,2-Dichloroethene	1.072	1.072		0	30
Chloroform	1.785	1.734		-2.86	30
1,1,1-Trichloroethane	1.772	1.700		-4.06	30
2,2,4-Trimethylpentane	2.040	2.233		9.46	30
Benzene	1.026	1.018		-0.78	30
1,2-Dichloroethane	0.732	0.731		-0.14	30
Trichloroethene	0.460	0.479		4.13	30
1,2-Dichloropropane	0.373	0.358		-4.02	30
Bromodichloromethane	0.955	1.101		15.29	30
4-Methyl-2-Pentanone	1.285	1.342		4.44	30
Toluene	1.225	1.195		-2.45	30
t-1,3-Dichloropropene	0.591	0.588		-0.51	30
cis-1,3-Dichloropropene	0.816	0.874		7.11	30
1,1,2-Trichloroethane	0.447	0.412		-7.83	30
Dibromochloromethane	0.681	0.692		1.62	30
1,2-Dibromoethane	0.643	0.626		-2.64	30
Tetrachloroethene	0.372	0.348		-6.45	30

All other compounds must meet a minimum RRF of 0.010.
 RRF of 1,4-Dioxane = Value should be divide by 1000.

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: CHAZ02

Lab Code: CHEM Case No.: I4984 SAS No.: I4984 SDG No.: I4984

Instrument ID: MSVOA_L Calibration Date/Time: 08/28/2017 09:36

Lab File ID: VL030710.D Init. Calib. Date(s): 08/16/2017 08/16/2017

Heated Purge: (Y/N) N Init. Calib. Time(s): 09:41 13:50

GC Column: RTX-1 ID: 0.32 (mm)

COMPOUND	RRF	RRF010	MIN RRF	%D	MAX%D
Chlorobenzene	0.942	0.890		-5.52	30
Ethyl Benzene	1.636	1.657		1.28	30
m/p-Xylene	1.382	1.346		-2.61	30
o-Xylene	1.400	1.345		-3.93	30
Styrene	0.314	0.347		10.51	30
Bromoform	0.530	0.531		0.19	30
1,1,2,2-Tetrachloroethane	1.003	0.868		-13.46	30
2-Chlorotoluene	1.366	1.335		-2.27	30
1,3,5-Trimethylbenzene	1.309	1.288		-1.6	30
1,2,4-Trimethylbenzene	1.439	1.341		-6.81	30
1,3-Dichlorobenzene	0.894	0.800		-10.52	30
1,4-Dichlorobenzene	0.889	0.813		-8.55	30
1,2-Dichlorobenzene	0.887	0.795		-10.37	30
1,2,4-Trichlorobenzene	0.585	0.532		-9.06	30
Hexachloro-1,3-Butadiene	0.408	0.449		10.05	30
1,3-Butadiene	0.876	0.931		6.28	30
Naphthalene	1.049	1.015		-3.24	30
4-Ethyltoluene	1.421	1.438		1.2	30
1-Bromo-4-Fluorobenzene	0.807	0.808		0.12	30
Hexane	1.147	1.099		-4.18	30
Allyl Chloride	0.929	0.894		-3.77	30
1,4-Dioxane	139.857	158.060		13.02	30
Methyl Methacrylate	0.429	0.494		15.15	30

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: CHAZ02
 Lab Code: CHEM Case No.: I4984 SAS No.: I4984 SDG No.: I4984
 Instrument ID: MSVOA_L Calibration Date/Time: 08/30/2017 11:39
 Lab File ID: VL030739.D Init. Calib. Date(s): 08/16/2017 08/16/2017
 Heated Purge: (Y/N) N Init. Calib. Time(s): 09:41 13:50
 GC Column: RTX-1 ID: 0.32 (mm)

COMPOUND	RRF	RRF010	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	2.407	1.994		-17.16	30
Chloromethane	0.716	0.619		-13.55	30
Vinyl Chloride	0.670	0.606		-9.55	30
Bromomethane	0.439	0.382		-12.98	30
Chloroethane	0.285	0.254		-10.88	30
Tetrahydrofuran	0.413	0.437		5.81	30
Trichlorofluoromethane	1.892	1.624		-14.16	30
1,1,2-Trichlorotrifluoroethane	1.132	1.025		-9.45	30
Dichlorotetrafluoroethane	1.757	1.480		-15.77	30
Bromoethene	0.477	0.426		-10.69	30
tert-Butyl alcohol	0.766	0.742		-3.13	30
Heptane	2.071	2.047		-1.16	30
1,1-Dichloroethene	0.517	0.459		-11.22	30
Acetone	1.774	1.346		-24.13	30
Carbon Disulfide	1.307	1.286		-1.61	30
Methyl tert-Butyl Ether	1.406	1.350		-3.98	30
Methylene Chloride	0.547	0.438		-19.93	30
trans-1,2-Dichloroethene	0.579	0.521		-10.02	30
1,1-Dichloroethane	1.551	1.387		-10.57	30
Cyclohexane	0.926	0.851		-8.1	30
2-Butanone	0.782	0.808		3.33	30
Carbon Tetrachloride	0.829	0.813		-1.93	30
cis-1,2-Dichloroethene	1.072	1.051		-1.96	30
Chloroform	1.785	1.633		-8.52	30
1,1,1-Trichloroethane	1.772	1.664		-6.09	30
2,2,4-Trimethylpentane	2.040	2.242		9.9	30
Benzene	1.026	0.994		-3.12	30
1,2-Dichloroethane	0.732	0.718		-1.91	30
Trichloroethene	0.460	0.464		0.87	30
1,2-Dichloropropane	0.373	0.371		-0.54	30
Bromodichloromethane	0.955	1.105		15.71	30
4-Methyl-2-Pentanone	1.285	1.347		4.82	30
Toluene	1.225	1.152		-5.96	30
t-1,3-Dichloropropene	0.591	0.578		-2.2	30
cis-1,3-Dichloropropene	0.816	0.884		8.33	30
1,1,2-Trichloroethane	0.447	0.400		-10.52	30
Dibromochloromethane	0.681	0.673		-1.17	30
1,2-Dibromoethane	0.643	0.620		-3.58	30
Tetrachloroethene	0.372	0.340		-8.6	30

All other compounds must meet a minimum RRF of 0.010.
 RRF of 1,4-Dioxane = Value should be divide by 1000.

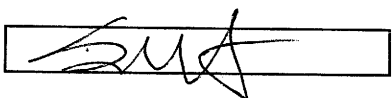
VOLATILE CONTINUING CALIBRATION CHECK

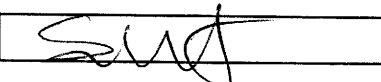
Lab Name: CHEMTECH Contract: CHAZ02
 Lab Code: CHEM Case No.: I4984 SAS No.: I4984 SDG No.: I4984
 Instrument ID: MSVOA_L Calibration Date/Time: 08/30/2017 11:39
 Lab File ID: VL030739.D Init. Calib. Date(s): 08/16/2017 08/16/2017
 Heated Purge: (Y/N) N Init. Calib. Time(s): 09:41 13:50
 GC Column: RTX-1 ID: 0.32 (mm)

COMPOUND	RRF	RRF010	MIN RRF	%D	MAX%D
Chlorobenzene	0.942	0.845		-10.3	30
Ethyl Benzene	1.636	1.573		-3.85	30
m/p-Xylene	1.382	1.277		-7.6	30
o-Xylene	1.400	1.283		-8.36	30
Styrene	0.314	0.324		3.18	30
Bromoform	0.530	0.510		-3.77	30
1,1,2,2-Tetrachloroethane	1.003	0.833		-16.95	30
2-Chlorotoluene	1.366	1.276		-6.59	30
1,3,5-Trimethylbenzene	1.309	1.245		-4.89	30
1,2,4-Trimethylbenzene	1.439	1.294		-10.08	30
1,3-Dichlorobenzene	0.894	0.768		-14.09	30
1,4-Dichlorobenzene	0.889	0.782		-12.04	30
1,2-Dichlorobenzene	0.887	0.757		-14.66	30
1,2,4-Trichlorobenzene	0.585	0.515		-11.97	30
Hexachloro-1,3-Butadiene	0.408	0.299		-26.72	30
1,3-Butadiene	0.876	0.841		-3.99	30
Naphthalene	1.049	0.976		-6.96	30
4-Ethyltoluene	1.421	1.382		-2.74	30
1-Bromo-4-Fluorobenzene	0.807	0.757		-6.2	30
Hexane	1.147	1.064		-7.24	30
Allyl Chloride	0.929	0.857		-7.75	30
1,4-Dioxane	139.857	156.757		12.08	30
Methyl Methacrylate	0.429	0.502		17.02	30

All other compounds must meet a minimum RRF of 0.010.
 RRF of 1,4-Dioxane = Value should be divide by 1000.

SHIPPING DOCUMENTS

Client Contact Information				Bottle Order ID : B1708072				Courier : Fedex				1 of 7 COCs															
Client ID : CHAZ02				Project ID : Air 81323.07 Karta				Sampler Name(s) : Matt MacDonald				Analysis		Matrix													
Customer Name : Chazen Companies Address : Flanigan Square, 547 River Street City : Troy State : NY Zip Code : 12180 Country : U.S.A.				Project Manager : Will Olsen				AIR ANALYSIS CHAIN-OF-CUSTODY Batch Certified																			
				Phone Number : 845-567-1133																							
				Fax Number : 8455671925																							
				Site Details:																							
				Analysis Turnaround Time : *See Below				Data Package Type : ASP Level B																			
				Standard : 15 business days OR				EDD Type : Excel, NYSDEC EQUIS																			
Rush (Specify): Days																											
Sample Identification	Sample Date(s)	Time Start (24 hr Clock)	Time Stop (24 hr Clock)	Can Vacuum in Field ("Hg) (Start)	Can Vacuum in Field ("Hg) (Stop)**	Outgoing Can Pressure ("Hg)(Lab)	Incoming Can Pressure ("Hg)(Lab)	Flow Reg. ID	Can ID	Can Size (L)	Flow Controller Readout	Can Cert ID	TO-15	Indoor/Ambient Air	Soil Gas												
SV-09	8/23/17	0922	1722	>30	12	75	80	-30	10.8	10587	10405	6 L	12.5	VL030208.D	X	X											
Temperature (Fahrenheit) <table border="1"> <tr> <td></td> <td>Ambient</td> <td>Maximum</td> <td>Minimum</td> </tr> <tr> <td>Start</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Stop</td> <td></td> <td></td> <td></td> </tr> </table>									Ambient	Maximum	Minimum	Start				Stop				GC/MS Analyst Signature (TO-15) 							
	Ambient	Maximum	Minimum																								
Start																											
Stop																											
Pressure (Inches of Hg) <table border="1"> <tr> <td></td> <td>Ambient</td> <td>Maximum</td> <td>Minimum</td> </tr> <tr> <td>Start</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Stop</td> <td></td> <td></td> <td></td> </tr> </table>									Ambient	Maximum	Minimum	Start				Stop				** Submittal of this COC indicates approval of the analysis based on existing condition Please follow the instructions on the back of this CO							
	Ambient	Maximum	Minimum																								
Start																											
Stop																											
Special Instructions/QC Requirements & Comments : * Need 2 week TAT on ASP Level B data package, per Steven Kim																											
Suspected Contamination: High Medium <u>Low</u> PID Readings:																											
Sampling site (State): NY																											
Quick Connector required : NO																											
Canisters Shipped by: QC				Date/Time: 8/18/17				Canisters Received by: Chaz Kim				Date/Time: 8/21/17 12:03															
Samples Relinquished by: M. MacDonald				Date/Time: 8/24/17/600				Received by: Fedex				Date/Time: 8/24/17 600															
Relinquished by:				Date/Time:				Received by: Chaz				Date/Time: 8-25-17 9:40															

Client Contact Information				Bottle Order ID : B1708072				Courier : <u>Fedex</u>				3 of 7 COCs																	
Client ID : CHAZ02				Project ID : Air 81323.07 Karta				Sampler Name(s) <u>Matt MacDonald</u>				Analysis		Matrix															
Customer Name : Chazen Companies Address : Flanigan Square, 547 River Street City : Troy State : NY Zip Code : 12180 Country : <u>U.S.A.</u>				Project Manager Will Olsen				AIR ANALYSIS CHAIN-OF-CUSTODY Batch Certified																					
				Phone Number : 845-567-1133																									
				Fax Number : 8455671925																									
				Site Details:																									
				Analysis Turnaround Time <u>*See Below</u>				Data Package Type : <u>ASP Level B</u>																					
				Standard : 15 business days OR				EDD Type <u>Excel, NYSDEC EQUIs</u>																					
Rush (Specify): _____ Days																													
Sample Identification	Sample Date(s)	Time Start (24 hr Clock)	Time Stop (24 hr Clock)	Can Vacuum in Field ("Hg) (Start)	Can Vacuum in Field ("Hg) (Stop)**	Outdoor Temp. (F) (Start)	Outdoor Temp. (F) (Stop)	Out going Can Pressure ("Hg)(Lab)	In coming Can Pressure ("Hg)(Lab)	Flow Reg. ID	Can ID	Can Size (L)	Flow Controller Readout	Can Cert ID	TO-15	Indoor/Ambient Air	Soil Gas												
SV-11	8/23/17	1200	2000	>30	12	~80	~80	-30	-10.8	10103	10281	6 L	12.5	VL030208.D	X		X												
Temperature (Fahrenheit) <table border="1"> <tr> <td></td> <td>Ambient</td> <td>Maximum</td> <td>Minimum</td> </tr> <tr> <td>Start</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Stop</td> <td></td> <td></td> <td></td> </tr> </table>											Ambient	Maximum	Minimum	Start				Stop				GC/MS Analyst Signature (TO-15) 							
	Ambient	Maximum	Minimum																										
Start																													
Stop																													
Pressure (Inches of Hg) <table border="1"> <tr> <td></td> <td>Ambient</td> <td>Maximum</td> <td>Minimum</td> </tr> <tr> <td>Start</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Stop</td> <td></td> <td></td> <td></td> </tr> </table>											Ambient	Maximum	Minimum	Start				Stop				** Submittal of this COC indicates approval of the analysis based on existing condition Please follow the instructions on the back of this CO							
	Ambient	Maximum	Minimum																										
Start																													
Stop																													
Special Instructions/QC Requirements & Comments : <u>* Need 2 week TAT on ASP Level B data package, per Steven Kim</u>																													
Suspected Contamination: High Medium <u>Low</u> PID Readings:																													
Sampling site (State): <u>NY</u>																													
Quick Connector required : <u>NO</u>																													
Canisters Shipped by: <u>M. MacDonald</u>				Date/Time: <u>8/24/17</u>				Canisters Received by: <u>Will Olsen</u>				Date/Time: <u>8/24/17 12:00</u>																	
Samples Relinquished by: <u>M. MacDonald</u>				Date/Time: <u>8/24/17 1600</u>				Received by: <u>Fedex</u>				Date/Time: <u>8/24/17 1600</u>																	
Relinquished by:				Date/Time:				Received by: <u>CP</u>				Date/Time: <u>8-25-17 1100</u>																	

B1708072 - 3

Client Contact Information				Bottle Order ID : B1708072				Courier : <u>Fedex</u>				4 of 7 COCs			
Client ID : CHA202				Project ID : Air 81323.07 Karta				Sampler Name(s) : <u>Matt MacDonald</u>				Analysis		Matrix	
Customer Name : Chazen Companies Address : Flanigan Square, 547 River Street City : Troy State : NY Zip Code : 12180 Country : <u>U.S.A.</u>				Project Manager : Will Olsen		AIR ANALYSIS CHAIN-OF-CUSTODY Batch Certified									
				Phone Number : 845-567-1133											
				Fax Number : 8455671925											
				Site Details:											
				Analysis Turnaround Time : <u>See Below</u>				Data Package Type : <u>ASP Level B</u>							
				Standard : 15 business days OR				EDD Type : <u>Excel, NYDEC EQUIS</u>							
Rush (Specify): _____ Days															

Sample Identification	Sample Date(s)	Time Start (24 hr Clock)	Time Stop (24 hr Clock)	Can Vacuum in Field ("Hg) (Start)	Can Vacuum in Field ("Hg) (Stop)**	Outdoor Temp. (F) (Start)	Outdoor Temp. (F) (Stop)	Out going Can Pressure ("Hg)(Lab)	In coming Can Pressure ("Hg)(Lab)	Flow Reg. ID	Can ID	Can Size (L)	Flow Controller Readout	Can Cert ID	TO-15	Indoor/Ambient Air	Soil Gas
SV-12	8/23/17	1238	1600	>30	~4	~80	~80	-30	-3.5	10227	10332	6 L	12.5	VL030538.D	X		X

Temperature (Fahrenheit)					GC/MS Analyst Signature (TO-15)
	Ambient	Maximum	Minimum		
Start					
Stop					

Pressure (Inches of Hg)					** Submittal of this COC indicates approval of the analysis based on existing conditio Please follow the instructions on the back of this CO
	Ambient	Maximum	Minimum		
Start					
Stop					

Special Instructions/QC Requirements & Comments : * Need 2 week TAT on ASP Level B data package, per Steven Kim

Suspected Contamination: High Medium Low PID Readings:

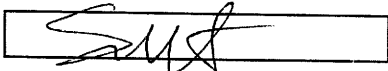
Sampling site (State): NY

Quick Connector required : NO

Canisters Shipped by: <u>[Signature]</u>	Date/Time: <u>8/18/17</u>	Canisters Received by: <u>[Signature]</u>	Date/Time: <u>8/21/17 12:00</u>
Samples Relinquished by: <u>[Signature]</u>	Date/Time: <u>8/24/17 1600</u>	Received by: <u>Fedex</u>	Date/Time: <u>8/24/17 1600</u>
Relinquished by:	Date/Time:	Received by: <u>CP</u>	Date/Time: <u>8-25-17 9:40</u>

B1708072 - 4

14984

Client Contact Information				Bottle Order ID : B1708072				Courier : Fedex				6 of 7 COCs																	
Client ID : CHAZ02				Project ID : Air 81323.07 Karta				Sampler Name(s) : Math MacDonald				Analysis		Matrix															
Customer Name : Chazen Companies Address : Flanigan Square, 547 River Street City : Troy State : NY Zip Code : 12180 Country : U.S.A.				Project Manager : Will Olsen				AIR ANALYSIS CHAIN-OF-CUSTODY Batch Certified																					
				Phone Number : 845-567-1133																									
				Fax Number : 8455671925																									
				Site Details:																									
Analysis Turnaround Time : *See Below				Standard : 15 business days OR				Data Package Type : ASPL Level B																					
Rush (Specify): Days				EDD Type : Excel, MSDEC EQUI'S																									
Sample Identification	Sample Date(s)	Time Start (24 hr Clock)	Time Stop (24 hr Clock)	Can Vacuum in Field ("Hg) (Start)	Can Vacuum in Field ("Hg) (Stop)**	Outdoor Temp. (F) (Start)	Outdoor Temp. (F) (Stop)	Out going Can Pressure ("Hg)(Lab)	In coming Can Pressure ("Hg)(Lab)	Flow Reg. ID	Can ID	Can Size (L)	Flow Controller Readout	Can Cert ID	TO-15	Indoor/Ambient Air	Soil Gas												
SV-13	8/23/17	1310	210	>30	13	~80	~80	-30	-11.2	10514	10508	6 L	12.5	VL029921.D	X		X												
Temperature (Fahrenheit) <table border="1"> <tr> <th></th> <th>Ambient</th> <th>Maximum</th> <th>Minimum</th> </tr> <tr> <td>Start</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Stop</td> <td></td> <td></td> <td></td> </tr> </table>											Ambient	Maximum	Minimum	Start				Stop				GC/MS Analyst Signature (TO-15) 							
	Ambient	Maximum	Minimum																										
Start																													
Stop																													
Pressure (Inches of Hg) <table border="1"> <tr> <th></th> <th>Ambient</th> <th>Maximum</th> <th>Minimum</th> </tr> <tr> <td>Start</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Stop</td> <td></td> <td></td> <td></td> </tr> </table>											Ambient	Maximum	Minimum	Start				Stop				** Submittal of this COC indicates approval of the analysis based on existing conditio Please follow the instructions on the back of this CO							
	Ambient	Maximum	Minimum																										
Start																													
Stop																													
Special Instructions/QC Requirements & Comments : * Need 2 week TAT on ASP Level B Data package per Steven Kim																													
Suspected Contamination: High Medium <u>Low</u> PID Readings:																													
Sampling site (State): NY																													
Quick Connector required : NO																													
Canisters Shipped by: ML				Date/Time: 8/18/17				Canisters Received by: John G. O.				Date/Time: 8/24/17 12:00																	
Samples Relinquished by: M. MacDonald				Date/Time: 8/24/17 1600				Received by: Fedex				Date/Time: 8/24/17 1600																	
Relinquished by:				Date/Time:				Received by:				Date/Time: 8-25-17 9:00																	

B1708072 - 7

B1708072 - 6

ORIGIN ID: HCCA (845) 454-3980
THE CHAZEN COMPANIES
TCC
21 FOX STREET

POUGHKEEPSIE, NY 12601
UNITED STATES US

SHIP DATE: 24AUG17
ACTWGT: 20.00 LB
CAD: 4409004/INET3920

BILL SENDER

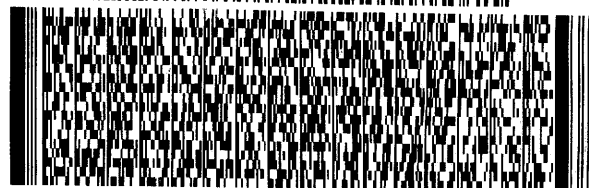
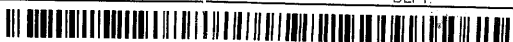
TO **SAMPLE RECEIVING**
CHEMTECH
284 SHEFFIELD STREET
SUITE 1
MOUNTAINSIDE NJ 07092

(845) 454-3980

REF: 81323.07 TASK 1200

INV:

DEPT:



FedEx
Express



J1720162301ur

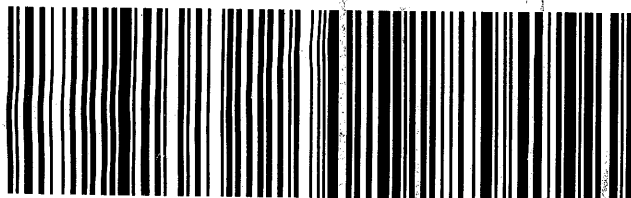
1 of 2

TRK#
0201 7701 0384 8026

MASTER

E2 CDWA

07092
NJ-US EWR



FRI - 25 AUG 10:30A
PRIORITY OVERNIGHT

ORIGIN ID: HCCA (845) 454-3980
THE CHAZEN COMPANIES
TCC
21 FOX STREET

POUGHKEEPSIE, NY 12601
UNITED STATES US

SHIP DATE: 24AUG17
ACTWGT: 20.00 LB
CAD: 4409004/INET3920

BILL SENDER

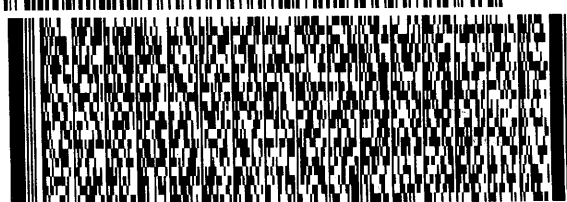
TO **SAMPLE RECEIVING**
CHEMTECH
284 SHEFFIELD STREET
SUITE 1
MOUNTAINSIDE NJ 07092

(845) 454-3980

REF: 81323.07 TASK 1200

INV:

DEPT:



FedEx
Express



J1720162301ur

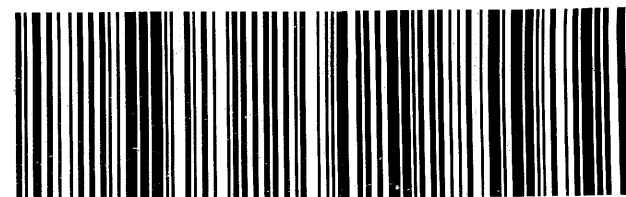
2 of 2

MPS#
0263 7701 0384 7707

Mstr# 7701 0384 8026

E2 CDWA

07092
NJ-US EWR



FRI - 25 AUG 10:30A
PRIORITY OVERNIGHT

Laboratory Certification

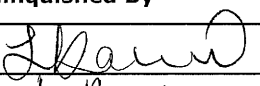
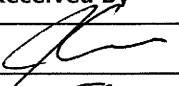
Certified By	License No.
CAS EPA CLP Contract	EP-W-14-030
Connecticut	PH-0649
DOD ELAP (L-A-B)	L2219
Florida	E87935
Maine	2012025
Maryland	296
New Hampshire	255413
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	P330-13-00380
Texas	T104704488-13-5

Internal Chain of Custody

Instructions: Use 1 form for each 20 samples of aliquot

Laboratory Person Breaking Field Seal on Sample Shuttle & Accepting Responsibility for Sample			
Laboratory: <u>Chemtech</u>		Location: <u>284 Sheffield Street, Mountainside, NJ 7092</u>	
NORFANA		Title: <u>Sample Custodian</u>	
Field Sample Seal No. <u>I4984</u>		Date Broken <u>8/25/2017</u>	Military Time Seal Broken: <u>09:40:00</u>
Case No.: <u>Air 81323.07 Karta</u>		Analytical Parameter/Fraction <u>TO-15</u>	

Sample No.	Aliquot/Extract No.	Sample No.	Aliquot/Extract No.
I4984-01	SV-09		
I4984-02	SV-10		
I4984-03	SV-11		
I4984-04	SV-12		
I4984-05	OUTDOOR-AIR		
I4984-06	SV-13		
I4984-07	SV-14		

Date	Time	Relinquished By		Received By		Purpose of Change of Custody
8/25/17	1515	Signature		Signature		AIR LAB
		Printed Name	Lokeana	Printed Name	J. K. M.	
		Signature		Signature		
		Printed Name		Printed Name		
		Signature		Signature		
		Printed Name		Printed Name		
		Signature		Signature		
		Printed Name		Printed Name		
		Signature		Signature		
		Printed Name		Printed Name		
		Signature		Signature		
		Printed Name		Printed Name		
		Signature		Signature		
		Printed Name		Printed Name		

Distribution: White - Original (Sent With Report) Yellow - Contractor Archive Pink - Sample Custodian - Interim Copy

CHEMTECH

284 Sheffield Street, Mountainside, NJ 07092 P: (908) 789-8900 F: (908) 789-8922

Client Sample ID #: SV-11

Client Name: _____

Project Name: _____

Date: 8/23/17Time: 1200Analysis: TO-15

Comments: _____

Storage Location: Air Lab

CHEMTECH

Date Received: _____

Sample: 14984-14984-03

Cust Sample: SV-11

B1708072

10405 -10.8

10153 -12.4

284 Sheffield Street, Mountainside, NJ 07092 P: (908) 789-8900 F: (908) 789-8922

CHEMTECHClient Sample ID #: SV-09

Client Name: _____

Project Name: _____

Date: 8/23/17 Time: 0922Analysis: TO-15

Comments: _____

Storage Location: Air Lab

CHEMTECH

Sample: 14984-14984-01

Date Received: _____

Cust Sample: SV-09

B1708072

B1708072

284 Sheffield Street, Mountainside, NJ 07092 P: (908) 789-8900 F: (908) 789-8922

CHEMTECHClient Sample ID #: SV-10

Client Name: _____

Project Name: _____

Date: 8/23/17 Time: 1035Analysis: TO-15

Comments: _____

Storage Location: Air Lab

CHEMTECH'S SA

Date Received: _____

Sample: 14984-14984-02

Cust Sample: SV-10

CHEMTECH

284 Sheffield Street, Mountainside, NJ 07092 P: (908) 789-8900 F: (908) 789-8922

Client Sample ID #: SV-13
 Client Name: _____
 Project Name: _____
 Date: 8/23/17 Time: 1310
 Analysis: TO-15

Comments: _____

Storage Location: Air Lab

CHEMTECH

Sample: 14984-14984-06

Date Received

Cust Sample: SV-13

B1708019

CHEMTECH

284 Sheffield Street, Mountainside, NJ 07092 P: (908) 789-8900 F: (908) 789-8922

Client Sample ID #: SV-12
 Client Name: _____
 Project Name: _____
 Date: 8/23/17 Time: 1238
 Analysis: TO-15

Comments: _____

Storage Location: Air Lab

CHEMTECH

Sample: 14984-14984-04

Date Received

Cust Sample: SV-12

B1708072

CHEMTECH

284 Sheffield Street, Mountainside, NJ 07092 P: (908) 789-8900 F: (908) 789-8922

Client Sample ID #: OUTDOOR-AIR
 Client Name: _____
 Project Name: _____
 Date: 8/23/17 Time: 1250
 Analysis: TO-15

Comments: _____

Storage Location: Air Lab

CHEM

Sample: 14984-14984-05

Date Received

Cust Sample: OUTDOOR-AIR

B1708072

CHEMTECH

284 Sheffield Street, Mountainside, NJ 07092 P: (908) 789-8900 F: (908) 789-8922

Client Sample ID #	SV-14
Client Name	
Project Name	
Date	8/23/17
Time	1345
Analysis	TO-15
Comments	
Storage Location	Air Lab
Sample	I4984-I4984-07
Cust Sample	SV-14

CHEMT

Date Rec

Sample: I4984-I4984-07

Cust Sample: SV-14

10/18/17
11.6

B1708072