

LAB CHRONICLE

OrderID: Q1215	OrderDate: 1/29/2025 11:20:00 AM
Client: RU2 Engineering, LLC	Project: NYCDDC SANTWOBR Brooklyn Bridge BBMCR
Contact: Rutu Manani	Location: E11,VOA Ref. #2 Soil

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1215-01	JPP-29.1-012825	SOIL	VOCMS Group1	8260D	01/28/25		02/03/25	01/29/25
Q1215-02	JPP-29.1-012825	TCLP	TCLP VOA	8260D	01/28/25		01/31/25	01/29/25
Q1215-05	JPP-29.2-012825	SOIL	VOCMS Group1	8260D	01/28/25		02/04/25	01/29/25
Q1215-06	JPP-29.2-012825	TCLP	TCLP VOA	8260D	01/28/25		02/03/25	01/29/25

Hit Summary Sheet
SW-846

SDG No.: Q1215

Client: RU2 Engineering, LLC

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID:	JPP-29.2-012825							
Q1215-05	JPP-29.2-012825	SOIL	Bromomethane	3.50	J	1.20	5.70	ug/Kg
			Total Voc :	3.50				
			Total Concentration:	3.50				



SAMPLE DATA

Report of Analysis

Client:	RU2 Engineering, LLC	Date Collected:	01/28/25
Project:	NYCDDC SANTWOBR Brooklyn Bridge BBMCR	Date Received:	01/29/25
Client Sample ID:	JPP-29.1-012825	SDG No.:	Q1215
Lab Sample ID:	Q1215-01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	89
Sample Wt/Vol:	5.01 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY021032.D	1		02/03/25 16:14	VY020325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	5.60	U	1.90	5.60	ug/Kg
74-87-3	Chloromethane	5.60	U	1.30	5.60	ug/Kg
75-01-4	Vinyl Chloride	5.60	U	0.86	5.60	ug/Kg
74-83-9	Bromomethane	5.60	U	1.20	5.60	ug/Kg
75-00-3	Chloroethane	5.60	U	1.10	5.60	ug/Kg
75-69-4	Trichlorofluoromethane	5.60	U	1.00	5.60	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	5.60	U	1.20	5.60	ug/Kg
75-65-0	Tert butyl alcohol	28.0	U	17.5	28.0	ug/Kg
75-35-4	1,1-Dichloroethene	5.60	U	0.87	5.60	ug/Kg
67-64-1	Acetone	28.0	U	7.00	28.0	ug/Kg
75-15-0	Carbon Disulfide	5.60	U	1.40	5.60	ug/Kg
1634-04-4	Methyl tert-butyl Ether	5.60	U	0.75	5.60	ug/Kg
79-20-9	Methyl Acetate	5.60	U	2.00	5.60	ug/Kg
75-09-2	Methylene Chloride	11.2	U	3.80	11.2	ug/Kg
156-60-5	trans-1,2-Dichloroethene	5.60	U	0.94	5.60	ug/Kg
75-34-3	1,1-Dichloroethane	5.60	U	0.71	5.60	ug/Kg
110-82-7	Cyclohexane	5.60	U	0.77	5.60	ug/Kg
78-93-3	2-Butanone	28.0	U	6.40	28.0	ug/Kg
56-23-5	Carbon Tetrachloride	5.60	U	0.98	5.60	ug/Kg
156-59-2	cis-1,2-Dichloroethene	5.60	U	0.68	5.60	ug/Kg
74-97-5	Bromochloromethane	5.60	U	2.70	5.60	ug/Kg
67-66-3	Chloroform	5.60	U	0.75	5.60	ug/Kg
71-55-6	1,1,1-Trichloroethane	5.60	U	0.87	5.60	ug/Kg
108-87-2	Methylcyclohexane	5.60	U	0.98	5.60	ug/Kg
71-43-2	Benzene	5.60	U	0.81	5.60	ug/Kg
107-06-2	1,2-Dichloroethane	5.60	U	0.68	5.60	ug/Kg
79-01-6	Trichloroethene	5.60	U	0.84	5.60	ug/Kg
78-87-5	1,2-Dichloropropane	5.60	U	0.74	5.60	ug/Kg
75-27-4	Bromodichloromethane	5.60	U	0.63	5.60	ug/Kg
108-10-1	4-Methyl-2-Pentanone	28.0	U	4.90	28.0	ug/Kg

Report of Analysis

Client:	RU2 Engineering, LLC	Date Collected:	01/28/25
Project:	NYCDDC SANTWOBR Brooklyn Bridge BBMCR	Date Received:	01/29/25
Client Sample ID:	JPP-29.1-012825	SDG No.:	Q1215
Lab Sample ID:	Q1215-01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	89
Sample Wt/Vol:	5.01 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY021032.D	1		02/03/25 16:14	VY020325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
108-88-3	Toluene	5.60	U	0.75	5.60	ug/Kg
10061-02-6	t-1,3-Dichloropropene	5.60	U	0.67	5.60	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	5.60	U	0.64	5.60	ug/Kg
79-00-5	1,1,2-Trichloroethane	5.60	U	0.94	5.60	ug/Kg
591-78-6	2-Hexanone	28.0	U	5.40	28.0	ug/Kg
124-48-1	Dibromochloromethane	5.60	U	0.73	5.60	ug/Kg
106-93-4	1,2-Dibromoethane	5.60	U	0.89	5.60	ug/Kg
127-18-4	Tetrachloroethene	5.60	U	1.00	5.60	ug/Kg
108-90-7	Chlorobenzene	5.60	U	0.83	5.60	ug/Kg
100-41-4	Ethyl Benzene	5.60	U	0.70	5.60	ug/Kg
179601-23-1	m/p-Xylenes	11.2	U	1.50	11.2	ug/Kg
95-47-6	o-Xylene	5.60	U	0.78	5.60	ug/Kg
100-42-5	Styrene	5.60	U	0.67	5.60	ug/Kg
75-25-2	Bromoform	5.60	U	0.91	5.60	ug/Kg
98-82-8	Isopropylbenzene	5.60	U	0.75	5.60	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	5.60	U	1.20	5.60	ug/Kg
541-73-1	1,3-Dichlorobenzene	5.60	U	0.83	5.60	ug/Kg
106-46-7	1,4-Dichlorobenzene	5.60	U	0.90	5.60	ug/Kg
95-50-1	1,2-Dichlorobenzene	5.60	U	0.66	5.60	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	5.60	U	1.70	5.60	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	5.60	U	0.89	5.60	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	5.60	U	0.87	5.60	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	72.1		50 - 163	144%	SPK: 50
1868-53-7	Dibromofluoromethane	60.6		54 - 147	121%	SPK: 50
2037-26-5	Toluene-d8	36.6		58 - 134	73%	SPK: 50
460-00-4	4-Bromofluorobenzene	10.0	*	29 - 146	20%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	1890	7.707			
540-36-3	1,4-Difluorobenzene	3170	8.615			
3114-55-4	Chlorobenzene-d5	1210	11.42			
3855-82-1	1,4-Dichlorobenzene-d4	281	13.365			

Report of Analysis

Client:	RU2 Engineering, LLC	Date Collected:	01/28/25
Project:	NYCDDC SANTWOBR Brooklyn Bridge BBMCR	Date Received:	01/29/25
Client Sample ID:	JPP-29.1-012825	SDG No.:	Q1215
Lab Sample ID:	Q1215-01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	89
Sample Wt/Vol:	5.01 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY021032.D	1		02/03/25 16:14	VY020325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
------------	-----------	-------	-----------	-----	------------	-------

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Report of Analysis

Client:	RU2 Engineering, LLC	Date Collected:	01/28/25
Project:	NYCDDC SANTWOBR Brooklyn Bridge BBMCR	Date Received:	01/29/25
Client Sample ID:	JPP-29.2-012825	SDG No.:	Q1215
Lab Sample ID:	Q1215-05	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	87.1
Sample Wt/Vol:	5.06 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY021055.D	1		02/04/25 13:52	VY020425

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	5.70	U	1.90	5.70	ug/Kg
74-87-3	Chloromethane	5.70	U	1.30	5.70	ug/Kg
75-01-4	Vinyl Chloride	5.70	U	0.87	5.70	ug/Kg
74-83-9	Bromomethane	3.50	J	1.20	5.70	ug/Kg
75-00-3	Chloroethane	5.70	U	1.10	5.70	ug/Kg
75-69-4	Trichlorofluoromethane	5.70	U	1.00	5.70	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	5.70	U	1.20	5.70	ug/Kg
75-65-0	Tert butyl alcohol	28.4	U	17.7	28.4	ug/Kg
75-35-4	1,1-Dichloroethene	5.70	U	0.88	5.70	ug/Kg
67-64-1	Acetone	28.4	U	7.10	28.4	ug/Kg
75-15-0	Carbon Disulfide	5.70	U	1.50	5.70	ug/Kg
1634-04-4	Methyl tert-butyl Ether	5.70	U	0.76	5.70	ug/Kg
79-20-9	Methyl Acetate	5.70	U	2.00	5.70	ug/Kg
75-09-2	Methylene Chloride	11.3	U	3.90	11.3	ug/Kg
156-60-5	trans-1,2-Dichloroethene	5.70	U	0.95	5.70	ug/Kg
75-34-3	1,1-Dichloroethane	5.70	U	0.71	5.70	ug/Kg
110-82-7	Cyclohexane	5.70	U	0.78	5.70	ug/Kg
78-93-3	2-Butanone	28.4	U	6.40	28.4	ug/Kg
56-23-5	Carbon Tetrachloride	5.70	U	0.99	5.70	ug/Kg
156-59-2	cis-1,2-Dichloroethene	5.70	U	0.69	5.70	ug/Kg
74-97-5	Bromochloromethane	5.70	U	2.70	5.70	ug/Kg
67-66-3	Chloroform	5.70	U	0.76	5.70	ug/Kg
71-55-6	1,1,1-Trichloroethane	5.70	U	0.88	5.70	ug/Kg
108-87-2	Methylcyclohexane	5.70	U	0.99	5.70	ug/Kg
71-43-2	Benzene	5.70	U	0.82	5.70	ug/Kg
107-06-2	1,2-Dichloroethane	5.70	U	0.69	5.70	ug/Kg
79-01-6	Trichloroethene	5.70	U	0.85	5.70	ug/Kg
78-87-5	1,2-Dichloropropane	5.70	U	0.75	5.70	ug/Kg
75-27-4	Bromodichloromethane	5.70	U	0.64	5.70	ug/Kg
108-10-1	4-Methyl-2-Pentanone	28.4	U	4.90	28.4	ug/Kg

Report of Analysis

Client:	RU2 Engineering, LLC			Date Collected:	01/28/25	
Project:	NYCDDC SANTWOBR Brooklyn Bridge BBMCR			Date Received:	01/29/25	
Client Sample ID:	JPP-29.2-012825			SDG No.:	Q1215	
Lab Sample ID:	Q1215-05			Matrix:	SOIL	
Analytical Method:	SW8260			% Solid:	87.1	
Sample Wt/Vol:	5.06	Units:	g	Final Vol:	5000	uL
Soil Aliquot Vol:			uL	Test:	VOCMS Group1	
GC Column:	RXI-624	ID :	0.25	Level :	LOW	
Prep Method :						

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY021055.D	1		02/04/25 13:52	VY020425

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
108-88-3	Toluene	5.70	U	0.76	5.70	ug/Kg
10061-02-6	t-1,3-Dichloropropene	5.70	U	0.68	5.70	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	5.70	U	0.65	5.70	ug/Kg
79-00-5	1,1,2-Trichloroethane	5.70	U	0.95	5.70	ug/Kg
591-78-6	2-Hexanone	28.4	U	5.40	28.4	ug/Kg
124-48-1	Dibromochloromethane	5.70	U	0.74	5.70	ug/Kg
106-93-4	1,2-Dibromoethane	5.70	U	0.90	5.70	ug/Kg
127-18-4	Tetrachloroethene	5.70	U	1.00	5.70	ug/Kg
108-90-7	Chlorobenzene	5.70	U	0.84	5.70	ug/Kg
100-41-4	Ethyl Benzene	5.70	U	0.70	5.70	ug/Kg
179601-23-1	m/p-Xylenes	11.3	U	1.50	11.3	ug/Kg
95-47-6	o-Xylene	5.70	U	0.79	5.70	ug/Kg
100-42-5	Styrene	5.70	U	0.68	5.70	ug/Kg
75-25-2	Bromoform	5.70	U	0.92	5.70	ug/Kg
98-82-8	Isopropylbenzene	5.70	U	0.76	5.70	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	5.70	U	1.20	5.70	ug/Kg
541-73-1	1,3-Dichlorobenzene	5.70	U	0.84	5.70	ug/Kg
106-46-7	1,4-Dichlorobenzene	5.70	U	0.91	5.70	ug/Kg
95-50-1	1,2-Dichlorobenzene	5.70	U	0.67	5.70	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	5.70	U	1.80	5.70	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	5.70	U	0.90	5.70	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	5.70	U	0.88	5.70	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	35.9		50 - 163	72%	SPK: 50
1868-53-7	Dibromofluoromethane	52.4		54 - 147	105%	SPK: 50
2037-26-5	Toluene-d8	43.6		58 - 134	87%	SPK: 50
460-00-4	4-Bromofluorobenzene	18.5		29 - 146	37%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	12800	7.707			
540-36-3	1,4-Difluorobenzene	17400	8.616			
3114-55-4	Chlorobenzene-d5	10800	11.42			
3855-82-1	1,4-Dichlorobenzene-d4	1520	13.353			

Report of Analysis

Client:	RU2 Engineering, LLC	Date Collected:	01/28/25
Project:	NYCDDC SANTWOBR Brooklyn Bridge BBMCR	Date Received:	01/29/25
Client Sample ID:	JPP-29.2-012825	SDG No.:	Q1215
Lab Sample ID:	Q1215-05	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	87.1
Sample Wt/Vol:	5.06 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY021055.D	1		02/04/25 13:52	VY020425

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
------------	-----------	-------	-----------	-----	------------	-------

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products



QC SUMMARY

Surrogate Summary

SDG No.: Q1215

Client: RU2 Engineering, LLC

Analytical Method: SW8260D

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits	
						Low	High
Q1215-01	JPP-29.1-012825	1,2-Dichloroethane-d4	50	72.1	144	50	163
		Dibromofluoromethane	50	60.6	121	54	147
		Toluene-d8	50	36.6	73	58	134
		4-Bromofluorobenzene	50	9.96	20 *	29	146
Q1215-05	JPP-29.2-012825	1,2-Dichloroethane-d4	50	35.9	72	50	163
		Dibromofluoromethane	50	52.4	105	54	147
		Toluene-d8	50	43.6	87	58	134
		4-Bromofluorobenzene	50	18.5	37	29	146
VY0203SBL01	VY0203SBL01	1,2-Dichloroethane-d4	50	50.6	101	50	163
		Dibromofluoromethane	50	49.4	99	54	147
		Toluene-d8	50	47.8	96	58	134
		4-Bromofluorobenzene	50	43.4	87	29	146
VY0203SBS01	VY0203SBS01	1,2-Dichloroethane-d4	50	45.9	92	50	163
		Dibromofluoromethane	50	48.8	98	54	147
		Toluene-d8	50	50.2	100	58	134
		4-Bromofluorobenzene	50	49.7	99	29	146
VY0203SBSD01	VY0203SBSD01	1,2-Dichloroethane-d4	50	49.0	98	50	163
		Dibromofluoromethane	50	48.3	97	54	147
		Toluene-d8	50	50.2	100	58	134
		4-Bromofluorobenzene	50	49.7	99	29	146
VY0204SBL01	VY0204SBL01	1,2-Dichloroethane-d4	50	57.4	115	50	163
		Dibromofluoromethane	50	51.6	103	54	147
		Toluene-d8	50	49.8	100	58	134
		4-Bromofluorobenzene	50	47.5	95	29	146
VY0204SBS01	VY0204SBS01	1,2-Dichloroethane-d4	50	44.3	89	50	163
		Dibromofluoromethane	50	44.6	89	54	147
		Toluene-d8	50	45.4	91	58	134
		4-Bromofluorobenzene	50	45.0	90	29	146

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1215

Client: RU2 Engineering, LLC

Analytical Method: SW8260D

Datafile : VY021029.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits	RPD
									High	
VY0203SBS01	Dichlorodifluoromethane	20	18.1	ug/Kg	91			64	136	
	Chloromethane	20	18.2	ug/Kg	91			70	130	
	Vinyl chloride	20	17.8	ug/Kg	89			72	129	
	Bromomethane	20	18.3	ug/Kg	92			58	141	
	Chloroethane	20	17.5	ug/Kg	88			69	130	
	Trichlorofluoromethane	20	18.1	ug/Kg	91			69	134	
	1,1,2-Trichlorotrifluoroethane	20	18.5	ug/Kg	93			81	123	
	Tert butyl alcohol	100	91.7	ug/Kg	92			24	175	
	1,1-Dichloroethene	20	18.0	ug/Kg	90			79	121	
	Acetone	100	83.7	ug/Kg	84			60	131	
	Carbon disulfide	20	17.7	ug/Kg	89			45	154	
	Methyl tert-butyl Ether	20	16.1	ug/Kg	81			77	129	
	Methyl Acetate	20	15.4	ug/Kg	77			69	149	
	Methylene Chloride	20	17.1	ug/Kg	86			56	174	
	trans-1,2-Dichloroethene	20	17.9	ug/Kg	90			80	123	
	1,1-Dichloroethane	20	17.6	ug/Kg	88			82	123	
	Cyclohexane	20	17.8	ug/Kg	89			76	122	
	2-Butanone	100	78.6	ug/Kg	79			69	131	
	Carbon Tetrachloride	20	18.0	ug/Kg	90			76	129	
	cis-1,2-Dichloroethene	20	17.4	ug/Kg	87			82	123	
	Bromochloromethane	20	16.4	ug/Kg	82			80	127	
	Chloroform	20	17.5	ug/Kg	88			82	125	
	1,1,1-Trichloroethane	20	18.1	ug/Kg	91			80	126	
	Methylcyclohexane	20	18.5	ug/Kg	93			77	123	
	Benzene	20	18.1	ug/Kg	91			84	121	
	1,2-Dichloroethane	20	16.9	ug/Kg	85			81	126	
	Trichloroethene	20	18.1	ug/Kg	91			83	122	
	1,2-Dichloropropane	20	17.6	ug/Kg	88			83	122	
	Bromodichloromethane	20	17.2	ug/Kg	86			82	123	
	4-Methyl-2-Pentanone	100	79.4	ug/Kg	79			70	135	
	Toluene	20	18.1	ug/Kg	91			83	122	
	t-1,3-Dichloropropene	20	17.1	ug/Kg	86			78	124	
	cis-1,3-Dichloropropene	20	17.5	ug/Kg	88			81	122	
	1,1,2-Trichloroethane	20	16.7	ug/Kg	84			82	125	
	2-Hexanone	100	76.7	ug/Kg	77			66	138	
	Dibromochloromethane	20	16.5	ug/Kg	83			79	125	
	1,2-Dibromoethane	20	16.7	ug/Kg	84			80	125	
	Tetrachloroethene	20	18.7	ug/Kg	94			83	125	
	Chlorobenzene	20	17.7	ug/Kg	89			84	122	
	Ethyl Benzene	20	18.5	ug/Kg	93			82	124	
	m/p-Xylenes	40	37.2	ug/Kg	93			83	124	
	o-Xylene	20	18.2	ug/Kg	91			83	123	
	Styrene	20	18.2	ug/Kg	91			82	124	
	Bromoform	20	17.0	ug/Kg	85			75	127	
	Isopropylbenzene	20	18.7	ug/Kg	94			82	124	
	1,1,2,2-Tetrachloroethane	20	16.4	ug/Kg	82			77	127	
	1,3-Dichlorobenzene	20	18.2	ug/Kg	91			83	122	
	1,4-Dichlorobenzene	20	17.9	ug/Kg	90			84	121	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1215

Client: RU2 Engineering, LLC

Analytical Method: SW8260D

Datafile : VY021029.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits	RPD
									High	
VY0203SBS01	1,2-Dichlorobenzene	20	17.5	ug/Kg	88			83	124	
	1,2-Dibromo-3-Chloropropane	20	16.6	ug/Kg	83			66	134	
	1,2,4-Trichlorobenzene	20	17.5	ug/Kg	88			78	127	
	1,2,3-Trichlorobenzene	20	17.3	ug/Kg	86			70	137	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1215

Client: RU2 Engineering, LLC

Analytical Method: SW8260D

Datafile : VY021030.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VY0203SBSD01	Dichlorodifluoromethane	20	19.5	ug/Kg	98	7		64	136	20
	Chloromethane	20	19.0	ug/Kg	95	4		70	130	20
	Vinyl chloride	20	18.7	ug/Kg	94	5		72	129	20
	Bromomethane	20	19.2	ug/Kg	96	4		58	141	20
	Chloroethane	20	18.9	ug/Kg	95	8		69	130	20
	Trichlorofluoromethane	20	19.3	ug/Kg	97	6		69	134	20
	1,1,2-Trichlorotrifluoroethane	20	19.7	ug/Kg	99	6		81	123	20
	Tert butyl alcohol	100	120	ug/Kg	120	26	*	24	175	20
	1,1-Dichloroethene	20	19.6	ug/Kg	98	9		79	121	20
	Acetone	100	97.7	ug/Kg	98	15		60	131	20
	Carbon disulfide	20	18.9	ug/Kg	95	7		45	154	20
	Methyl tert-butyl Ether	20	19.6	ug/Kg	98	19		77	129	20
	Methyl Acetate	20	19.3	ug/Kg	97	23	*	69	149	20
	Methylene Chloride	20	19.3	ug/Kg	97	12		56	174	20
	trans-1,2-Dichloroethene	20	18.9	ug/Kg	95	5		80	123	20
	1,1-Dichloroethane	20	18.7	ug/Kg	94	7		82	123	20
	Cyclohexane	20	19.5	ug/Kg	98	10		76	122	20
	2-Butanone	100	99.3	ug/Kg	99	22	*	69	131	20
	Carbon Tetrachloride	20	19.2	ug/Kg	96	6		76	129	20
	cis-1,2-Dichloroethene	20	19.0	ug/Kg	95	9		82	123	20
	Bromochloromethane	20	18.1	ug/Kg	91	10		80	127	20
	Chloroform	20	19.2	ug/Kg	96	9		82	125	20
	1,1,1-Trichloroethane	20	19.4	ug/Kg	97	6		80	126	20
	Methylcyclohexane	20	19.7	ug/Kg	99	6		77	123	20
	Benzene	20	19.4	ug/Kg	97	6		84	121	20
	1,2-Dichloroethane	20	19.3	ug/Kg	97	13		81	126	20
	Trichloroethene	20	19.3	ug/Kg	97	6		83	122	20
	1,2-Dichloropropane	20	19.5	ug/Kg	98	11		83	122	20
	Bromodichloromethane	20	18.9	ug/Kg	95	10		82	123	20
	4-Methyl-2-Pentanone	100	99.9	ug/Kg	100	23	*	70	135	20
	Toluene	20	19.8	ug/Kg	99	8		83	122	20
	t-1,3-Dichloropropene	20	19.5	ug/Kg	98	13		78	124	20
	cis-1,3-Dichloropropene	20	19.2	ug/Kg	96	9		81	122	20
	1,1,2-Trichloroethane	20	19.3	ug/Kg	97	14		82	125	20
	2-Hexanone	100	99.3	ug/Kg	99	25	*	66	138	20
	Dibromochloromethane	20	19.2	ug/Kg	96	15		79	125	20
	1,2-Dibromoethane	20	19.0	ug/Kg	95	12		80	125	20
	Tetrachloroethene	20	19.9	ug/Kg	100	6		83	125	20
	Chlorobenzene	20	19.7	ug/Kg	99	11		84	122	20
	Ethyl Benzene	20	19.9	ug/Kg	100	7		82	124	20
	m/p-Xylenes	40	40.2	ug/Kg	101	8		83	124	20
	o-Xylene	20	19.8	ug/Kg	99	8		83	123	20
	Styrene	20	20.1	ug/Kg	101	10		82	124	20
	Bromoform	20	20.0	ug/Kg	100	16		75	127	20
	Isopropylbenzene	20	19.5	ug/Kg	98	4		82	124	20
	1,1,2,2-Tetrachloroethane	20	19.2	ug/Kg	96	16		77	127	20
	1,3-Dichlorobenzene	20	19.5	ug/Kg	98	7		83	122	20
	1,4-Dichlorobenzene	20	19.3	ug/Kg	97	7		84	121	20

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1215

Client: RU2 Engineering, LLC

Analytical Method: SW8260D

Datafile : VY021030.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits	RPD
									High	
VY0203SBSD01	1,2-Dichlorobenzene	20	19.3	ug/Kg	97	10		83	124	20
	1,2-Dibromo-3-Chloropropane	20	18.9	ug/Kg	95	13		66	134	20
	1,2,4-Trichlorobenzene	20	18.9	ug/Kg	95	8		78	127	20
	1,2,3-Trichlorobenzene	20	19.3	ug/Kg	97	12		70	137	20

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1215

Client: RU2 Engineering, LLC

Analytical Method: SW8260D

Datafile : VY021048.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits	RPD
									High	
VY0204SBS01	Dichlorodifluoromethane	20	18.7	ug/Kg	94			64	136	
	Chloromethane	20	18.1	ug/Kg	91			70	130	
	Vinyl chloride	20	17.9	ug/Kg	90			72	129	
	Bromomethane	20	17.8	ug/Kg	89			58	141	
	Chloroethane	20	17.7	ug/Kg	89			69	130	
	Trichlorofluoromethane	20	18.1	ug/Kg	91			69	134	
	1,1,2-Trichlorotrifluoroethane	20	18.9	ug/Kg	95			81	123	
	Tert butyl alcohol	100	97.5	ug/Kg	98			24	175	
	1,1-Dichloroethene	20	18.1	ug/Kg	91			79	121	
	Acetone	100	95.3	ug/Kg	95			60	131	
	Carbon disulfide	20	17.7	ug/Kg	89			45	154	
	Methyl tert-butyl Ether	20	17.8	ug/Kg	89			77	129	
	Methyl Acetate	20	18.0	ug/Kg	90			69	149	
	Methylene Chloride	20	18.3	ug/Kg	92			56	174	
	trans-1,2-Dichloroethene	20	17.9	ug/Kg	90			80	123	
	1,1-Dichloroethane	20	18.6	ug/Kg	93			82	123	
	Cyclohexane	20	18.5	ug/Kg	93			76	122	
	2-Butanone	100	92.2	ug/Kg	92			69	131	
	Carbon Tetrachloride	20	18.8	ug/Kg	94			76	129	
	cis-1,2-Dichloroethene	20	18.3	ug/Kg	92			82	123	
	Bromochloromethane	20	19.9	ug/Kg	100			80	127	
	Chloroform	20	18.5	ug/Kg	93			82	125	
	1,1,1-Trichloroethane	20	18.9	ug/Kg	95			80	126	
	Methylcyclohexane	20	18.4	ug/Kg	92			77	123	
	Benzene	20	18.5	ug/Kg	93			84	121	
	1,2-Dichloroethane	20	18.1	ug/Kg	91			81	126	
	Trichloroethene	20	18.6	ug/Kg	93			83	122	
	1,2-Dichloropropane	20	19.1	ug/Kg	96			83	122	
	Bromodichloromethane	20	18.6	ug/Kg	93			82	123	
	4-Methyl-2-Pentanone	100	92.4	ug/Kg	92			70	135	
	Toluene	20	18.9	ug/Kg	95			83	122	
	t-1,3-Dichloropropene	20	18.2	ug/Kg	91			78	124	
	cis-1,3-Dichloropropene	20	18.6	ug/Kg	93			81	122	
	1,1,2-Trichloroethane	20	18.4	ug/Kg	92			82	125	
	2-Hexanone	100	90.8	ug/Kg	91			66	138	
	Dibromochloromethane	20	18.3	ug/Kg	92			79	125	
	1,2-Dibromoethane	20	17.8	ug/Kg	89			80	125	
	Tetrachloroethene	20	18.9	ug/Kg	95			83	125	
	Chlorobenzene	20	18.6	ug/Kg	93			84	122	
	Ethyl Benzene	20	18.7	ug/Kg	94			82	124	
	m/p-Xylenes	40	37.8	ug/Kg	95			83	124	
	o-Xylene	20	18.6	ug/Kg	93			83	123	
	Styrene	20	18.8	ug/Kg	94			82	124	
	Bromoform	20	18.6	ug/Kg	93			75	127	
	Isopropylbenzene	20	17.7	ug/Kg	89			82	124	
	1,1,2,2-Tetrachloroethane	20	17.4	ug/Kg	87			77	127	
	1,3-Dichlorobenzene	20	17.9	ug/Kg	90			83	122	
	1,4-Dichlorobenzene	20	18.3	ug/Kg	92			84	121	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1215

Client: RU2 Engineering, LLC

Analytical Method: SW8260D

Datafile : VY021048.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits	RPD
									High	
VY0204SBS01	1,2-Dichlorobenzene	20	18.2	ug/Kg	91			83	124	
	1,2-Dibromo-3-Chloropropane	20	16.3	ug/Kg	81			66	134	
	1,2,4-Trichlorobenzene	20	18.3	ug/Kg	92			78	127	
	1,2,3-Trichlorobenzene	20	17.8	ug/Kg	89			70	137	

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VY0203SBL01

Lab Name: CHEMTECH

Contract: RUTW01

Lab Code: CHEM Case No.: Q1215

SAS No.: Q1215 SDG NO.: Q1215

Lab File ID: VY021028.D

Lab Sample ID: VY0203SBL01

Date Analyzed: 02/03/2025

Time Analyzed: 14:13

GC Column: RXI-624 ID: 0.25 (mm)

Heated Purge: (Y/N) Y

Instrument ID: MSVOA_Y

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
VY0203SBS01	VY0203SBS01	VY021029.D	02/03/2025
VY0203SBSD01	VY0203SBSD01	VY021030.D	02/03/2025
JPP-29.1-012825	Q1215-01	VY021032.D	02/03/2025

COMMENTS: _____

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VY0204SBL01

Lab Name: CHEMTECH

Contract: RUTW01

Lab Code: CHEM Case No.: Q1215

SAS No.: Q1215 SDG NO.: Q1215

Lab File ID: VY021047.D

Lab Sample ID: VY0204SBL01

Date Analyzed: 02/04/2025

Time Analyzed: 10:15

GC Column: RXI-624 ID: 0.25 (mm)

Heated Purge: (Y/N) Y

Instrument ID: MSVOA_Y

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
VY0204SBS01	VY0204SBS01	VY021048.D	02/04/2025
JPP-29.2-012825	Q1215-05	VY021055.D	02/04/2025

COMMENTS: _____

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: RUTW01
Lab Code: CHEM Case No.: Q1215 SAS No.: Q1215 SDG NO.: Q1215
Lab File ID: VY021019.D BFB Injection Date: 02/03/2025
Instrument ID: MSVOA_Y BFB Injection Time: 09:51
GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: Y/N Y

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	15.3
75	30.0 - 60.0% of mass 95	49
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.6
173	Less than 2.0% of mass 174	0.3 (0.4) 1
174	50.0 - 100.0% of mass 95	89.7
175	5.0 - 9.0% of mass 174	7 (7.8) 1
176	95.0 - 101.0% of mass 174	87 (97) 1
177	5.0 - 9.0% of mass 176	5.9 (6.8) 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
VSTDIC005	VSTDIC005	VY021020.D	02/03/2025	10:35
VSTDIC010	VSTDIC010	VY021021.D	02/03/2025	10:57
VSTDIC020	VSTDIC020	VY021022.D	02/03/2025	11:20
VSTDIC050	VSTDIC050	VY021023.D	02/03/2025	11:43
VSTDIC100	VSTDIC100	VY021024.D	02/03/2025	12:21
VSTDIC150	VSTDIC150	VY021025.D	02/03/2025	12:44
VY0203SBL01	VY0203SBL01	VY021028.D	02/03/2025	14:13
VY0203SBS01	VY0203SBS01	VY021029.D	02/03/2025	14:55
VY0203SBSD01	VY0203SBSD01	VY021030.D	02/03/2025	15:17
JPP-29.1-012825	Q1215-01	VY021032.D	02/03/2025	16:14

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: RUTW01
Lab Code: CHEM Case No.: Q1215 SAS No.: Q1215 SDG NO.: Q1215
Lab File ID: VY021045.D BFB Injection Date: 02/04/2025
Instrument ID: MSVOA_Y BFB Injection Time: 09:16
GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: Y/N Y

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	21.3
75	30.0 - 60.0% of mass 95	55.5
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.6
173	Less than 2.0% of mass 174	1.3 (1.5) 1
174	50.0 - 100.0% of mass 95	88.1
175	5.0 - 9.0% of mass 174	7 (7.9) 1
176	95.0 - 101.0% of mass 174	84.8 (96.1) 1
177	5.0 - 9.0% of mass 176	5.3 (6.3) 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
VSTDCCC050	VSTDCCC050	VY021046.D	02/04/2025	09:47
VY0204SBL01	VY0204SBL01	VY021047.D	02/04/2025	10:15
VY0204SBS01	VY0204SBS01	VY021048.D	02/04/2025	10:52
JPP-29.2-012825	Q1215-05	VY021055.D	02/04/2025	13:52

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: RUTW01
Lab Code: CHEM Case No.: Q1215 SAS No.: Q1215 SDG NO.: Q1215
Lab File ID: VY021023.D Date Analyzed: 02/03/2025
Instrument ID: MSVOA_Y Time Analyzed: 11:43
GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) Y

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	185055	7.71	285755	8.62	250150	11.42
UPPER LIMIT	370110	8.213	571510	9.122	500300	11.92
LOWER LIMIT	92527.5	7.213	142878	8.122	125075	10.92
EPA SAMPLE NO.						
JPP-29.1-012825	1891 *	7.71	3174 *	8.62	1214 *	11.42
VY0203SBL01	159750	7.71	285727	8.62	240190	11.42
VY0203SBS01	208053	7.71	315310	8.62	265413	11.42
VY0203SBSD01	203811	7.71	313701	8.62	262239	11.42

IS1 = Pentafluorobenzene

IS2 = 1,4-Difluorobenzene

IS3 = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT LOWER LIMIT = -0.50 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: RUTW01
 Lab Code: CHEM Case No.: Q1215 SAS No.: Q1215 SDG NO.: Q1215
 Lab File ID: VY021023.D Date Analyzed: 02/03/2025
 Instrument ID: MSVOA_Y Time Analyzed: 11:43
 GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) Y

	IS4 AREA #	RT #				
12 HOUR STD	121069	13.353				
UPPER LIMIT	242138	13.853				
LOWER LIMIT	60534.5	12.853				
EPA SAMPLE NO.						
JPP-29.1-012825	281 *	13.37				
VY0203SBL01	89793	13.35				
VY0203SBS01	127785	13.35				
VY0203SBSD01	128240	13.35				

IS4 = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
 AREA LOWER LIMIT = -50% of internal standard area
 RT UPPER LIMIT = +0.50 minutes of internal standard RT
 RT LOWER LIMIT = -0.50 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: RUTW01
Lab Code: CHEM Case No.: Q1215 SAS No.: Q1215 SDG NO.: Q1215
Lab File ID: VY021046.D Date Analyzed: 02/04/2025
Instrument ID: MSVOA_Y Time Analyzed: 09:47
GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) Y

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	154178	7.71	233780	8.62	206737	11.42
UPPER LIMIT	308356	8.213	467560	9.115	413474	11.92
LOWER LIMIT	77089	7.213	116890	8.115	103369	10.92
EPA SAMPLE NO.						
JPP-29.2-012825	12765 *	7.71	17435 *	8.62	10821 *	11.42
VY0204SBL01	173019	7.71	321305	8.62	292351	11.42
VY0204SBS01	159738	7.71	247448	8.62	212473	11.42

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

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 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: RUTW01
Lab Code: CHEM Case No.: Q1215 SAS No.: Q1215 SDG NO.: Q1215
Lab File ID: VY021046.D Date Analyzed: 02/04/2025
Instrument ID: MSVOA_Y Time Analyzed: 09:47
GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) Y

	IS4 AREA #	RT #				
12 HOUR STD	102470	13.352				
UPPER LIMIT	204940	13.852				
LOWER LIMIT	51235	12.852				
EPA SAMPLE NO.						
JPP-29.2-012825	1520 *	13.35				
VY0204SBL01	114535	13.35				
VY0204SBS01	108974	13.35				

IS4 = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 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:	RU2 Engineering, LLC	Date Collected:	
Project:	NYCDDC SANTWOBR Brooklyn Bridge BBMCR	Date Received:	
Client Sample ID:	VY0203SBL01	SDG No.:	Q1215
Lab Sample ID:	VY0203SBL01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY021028.D	1		02/03/25 14:13	VY020325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	5.00	U	1.70	5.00	ug/Kg
74-87-3	Chloromethane	5.00	U	1.20	5.00	ug/Kg
75-01-4	Vinyl Chloride	5.00	U	0.77	5.00	ug/Kg
74-83-9	Bromomethane	5.00	U	1.00	5.00	ug/Kg
75-00-3	Chloroethane	5.00	U	1.00	5.00	ug/Kg
75-69-4	Trichlorofluoromethane	5.00	U	0.91	5.00	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	5.00	U	1.10	5.00	ug/Kg
75-65-0	Tert butyl alcohol	25.0	U	15.6	25.0	ug/Kg
75-35-4	1,1-Dichloroethene	5.00	U	0.78	5.00	ug/Kg
67-64-1	Acetone	25.0	U	6.20	25.0	ug/Kg
75-15-0	Carbon Disulfide	5.00	U	1.30	5.00	ug/Kg
1634-04-4	Methyl tert-butyl Ether	5.00	U	0.67	5.00	ug/Kg
79-20-9	Methyl Acetate	5.00	U	1.80	5.00	ug/Kg
75-09-2	Methylene Chloride	10.0	U	3.40	10.0	ug/Kg
156-60-5	trans-1,2-Dichloroethene	5.00	U	0.84	5.00	ug/Kg
75-34-3	1,1-Dichloroethane	5.00	U	0.63	5.00	ug/Kg
110-82-7	Cyclohexane	5.00	U	0.69	5.00	ug/Kg
78-93-3	2-Butanone	25.0	U	5.70	25.0	ug/Kg
56-23-5	Carbon Tetrachloride	5.00	U	0.87	5.00	ug/Kg
156-59-2	cis-1,2-Dichloroethene	5.00	U	0.61	5.00	ug/Kg
74-97-5	Bromochloromethane	5.00	U	2.40	5.00	ug/Kg
67-66-3	Chloroform	5.00	U	0.67	5.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	5.00	U	0.78	5.00	ug/Kg
108-87-2	Methylcyclohexane	5.00	U	0.87	5.00	ug/Kg
71-43-2	Benzene	5.00	U	0.72	5.00	ug/Kg
107-06-2	1,2-Dichloroethane	5.00	U	0.61	5.00	ug/Kg
79-01-6	Trichloroethene	5.00	U	0.75	5.00	ug/Kg
78-87-5	1,2-Dichloropropane	5.00	U	0.66	5.00	ug/Kg
75-27-4	Bromodichloromethane	5.00	U	0.56	5.00	ug/Kg
108-10-1	4-Methyl-2-Pentanone	25.0	U	4.40	25.0	ug/Kg

Report of Analysis

Client:	RU2 Engineering, LLC	Date Collected:	
Project:	NYCDDC SANTWOBR Brooklyn Bridge BBMCR	Date Received:	
Client Sample ID:	VY0203SBL01	SDG No.:	Q1215
Lab Sample ID:	VY0203SBL01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY021028.D	1		02/03/25 14:13	VY020325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
108-88-3	Toluene	5.00	U	0.67	5.00	ug/Kg
10061-02-6	t-1,3-Dichloropropene	5.00	U	0.60	5.00	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	5.00	U	0.57	5.00	ug/Kg
79-00-5	1,1,2-Trichloroethane	5.00	U	0.84	5.00	ug/Kg
591-78-6	2-Hexanone	25.0	U	4.80	25.0	ug/Kg
124-48-1	Dibromochloromethane	5.00	U	0.65	5.00	ug/Kg
106-93-4	1,2-Dibromoethane	5.00	U	0.79	5.00	ug/Kg
127-18-4	Tetrachloroethene	5.00	U	0.89	5.00	ug/Kg
108-90-7	Chlorobenzene	5.00	U	0.74	5.00	ug/Kg
100-41-4	Ethyl Benzene	5.00	U	0.62	5.00	ug/Kg
179601-23-1	m/p-Xylenes	10.0	U	1.40	10.0	ug/Kg
95-47-6	o-Xylene	5.00	U	0.70	5.00	ug/Kg
100-42-5	Styrene	5.00	U	0.60	5.00	ug/Kg
75-25-2	Bromoform	5.00	U	0.81	5.00	ug/Kg
98-82-8	Isopropylbenzene	5.00	U	0.67	5.00	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	5.00	U	1.10	5.00	ug/Kg
541-73-1	1,3-Dichlorobenzene	5.00	U	0.74	5.00	ug/Kg
106-46-7	1,4-Dichlorobenzene	5.00	U	0.80	5.00	ug/Kg
95-50-1	1,2-Dichlorobenzene	5.00	U	0.59	5.00	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	5.00	U	1.60	5.00	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	5.00	U	0.79	5.00	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	5.00	U	0.78	5.00	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	50.6		50 - 163	101%	SPK: 50
1868-53-7	Dibromofluoromethane	49.4		54 - 147	99%	SPK: 50
2037-26-5	Toluene-d8	47.8		58 - 134	96%	SPK: 50
460-00-4	4-Bromofluorobenzene	43.4		29 - 146	87%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	160000	7.713			
540-36-3	1,4-Difluorobenzene	286000	8.622			
3114-55-4	Chlorobenzene-d5	240000	11.42			
3855-82-1	1,4-Dichlorobenzene-d4	89800	13.353			

Report of Analysis

Client:	RU2 Engineering, LLC	Date Collected:	
Project:	NYCDDC SANTWOBR Brooklyn Bridge BBMCR	Date Received:	
Client Sample ID:	VY0203SBL01	SDG No.:	Q1215
Lab Sample ID:	VY0203SBL01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY021028.D	1		02/03/25 14:13	VY020325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
------------	-----------	-------	-----------	-----	------------	-------

U = Not Detected
 LOQ = Limit of Quantitation
 MDL = Method Detection Limit
 LOD = Limit of Detection
 E = Value Exceeds Calibration Range
 Q = indicates LCS control criteria did not meet requirements
 M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
 B = Analyte Found in Associated Method Blank
 N = Presumptive Evidence of a Compound
 * = Values outside of QC limits
 D = Dilution
 () = Laboratory InHouse Limit
 A = Aldol-Condensation Reaction Products

Report of Analysis

Client:	RU2 Engineering, LLC	Date Collected:	
Project:	NYCDDC SANTWOBR Brooklyn Bridge BBMCR	Date Received:	
Client Sample ID:	VY0204SBL01	SDG No.:	Q1215
Lab Sample ID:	VY0204SBL01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY021047.D	1		02/04/25 10:15	VY020425

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	5.00	U	1.70	5.00	ug/Kg
74-87-3	Chloromethane	5.00	U	1.20	5.00	ug/Kg
75-01-4	Vinyl Chloride	5.00	U	0.77	5.00	ug/Kg
74-83-9	Bromomethane	5.00	U	1.00	5.00	ug/Kg
75-00-3	Chloroethane	5.00	U	1.00	5.00	ug/Kg
75-69-4	Trichlorofluoromethane	5.00	U	0.91	5.00	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	5.00	U	1.10	5.00	ug/Kg
75-65-0	Tert butyl alcohol	25.0	U	15.6	25.0	ug/Kg
75-35-4	1,1-Dichloroethene	5.00	U	0.78	5.00	ug/Kg
67-64-1	Acetone	25.0	U	6.20	25.0	ug/Kg
75-15-0	Carbon Disulfide	5.00	U	1.30	5.00	ug/Kg
1634-04-4	Methyl tert-butyl Ether	5.00	U	0.67	5.00	ug/Kg
79-20-9	Methyl Acetate	5.00	U	1.80	5.00	ug/Kg
75-09-2	Methylene Chloride	10.0	U	3.40	10.0	ug/Kg
156-60-5	trans-1,2-Dichloroethene	5.00	U	0.84	5.00	ug/Kg
75-34-3	1,1-Dichloroethane	5.00	U	0.63	5.00	ug/Kg
110-82-7	Cyclohexane	5.00	U	0.69	5.00	ug/Kg
78-93-3	2-Butanone	25.0	U	5.70	25.0	ug/Kg
56-23-5	Carbon Tetrachloride	5.00	U	0.87	5.00	ug/Kg
156-59-2	cis-1,2-Dichloroethene	5.00	U	0.61	5.00	ug/Kg
74-97-5	Bromochloromethane	5.00	U	2.40	5.00	ug/Kg
67-66-3	Chloroform	5.00	U	0.67	5.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	5.00	U	0.78	5.00	ug/Kg
108-87-2	Methylcyclohexane	5.00	U	0.87	5.00	ug/Kg
71-43-2	Benzene	5.00	U	0.72	5.00	ug/Kg
107-06-2	1,2-Dichloroethane	5.00	U	0.61	5.00	ug/Kg
79-01-6	Trichloroethene	5.00	U	0.75	5.00	ug/Kg
78-87-5	1,2-Dichloropropane	5.00	U	0.66	5.00	ug/Kg
75-27-4	Bromodichloromethane	5.00	U	0.56	5.00	ug/Kg
108-10-1	4-Methyl-2-Pentanone	25.0	U	4.40	25.0	ug/Kg

Report of Analysis

Client:	RU2 Engineering, LLC	Date Collected:	
Project:	NYCDDC SANTWOBR Brooklyn Bridge BBMCR	Date Received:	
Client Sample ID:	VY0204SBL01	SDG No.:	Q1215
Lab Sample ID:	VY0204SBL01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY021047.D	1		02/04/25 10:15	VY020425

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
108-88-3	Toluene	5.00	U	0.67	5.00	ug/Kg
10061-02-6	t-1,3-Dichloropropene	5.00	U	0.60	5.00	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	5.00	U	0.57	5.00	ug/Kg
79-00-5	1,1,2-Trichloroethane	5.00	U	0.84	5.00	ug/Kg
591-78-6	2-Hexanone	25.0	U	4.80	25.0	ug/Kg
124-48-1	Dibromochloromethane	5.00	U	0.65	5.00	ug/Kg
106-93-4	1,2-Dibromoethane	5.00	U	0.79	5.00	ug/Kg
127-18-4	Tetrachloroethene	5.00	U	0.89	5.00	ug/Kg
108-90-7	Chlorobenzene	5.00	U	0.74	5.00	ug/Kg
100-41-4	Ethyl Benzene	5.00	U	0.62	5.00	ug/Kg
179601-23-1	m/p-Xylenes	10.0	U	1.40	10.0	ug/Kg
95-47-6	o-Xylene	5.00	U	0.70	5.00	ug/Kg
100-42-5	Styrene	5.00	U	0.60	5.00	ug/Kg
75-25-2	Bromoform	5.00	U	0.81	5.00	ug/Kg
98-82-8	Isopropylbenzene	5.00	U	0.67	5.00	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	5.00	U	1.10	5.00	ug/Kg
541-73-1	1,3-Dichlorobenzene	5.00	U	0.74	5.00	ug/Kg
106-46-7	1,4-Dichlorobenzene	5.00	U	0.80	5.00	ug/Kg
95-50-1	1,2-Dichlorobenzene	5.00	U	0.59	5.00	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	5.00	U	1.60	5.00	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	5.00	U	0.79	5.00	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	5.00	U	0.78	5.00	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	57.4		50 - 163	115%	SPK: 50
1868-53-7	Dibromofluoromethane	51.6		54 - 147	103%	SPK: 50
2037-26-5	Toluene-d8	49.8		58 - 134	100%	SPK: 50
460-00-4	4-Bromofluorobenzene	47.5		29 - 146	95%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	173000	7.713			
540-36-3	1,4-Difluorobenzene	321000	8.616			
3114-55-4	Chlorobenzene-d5	292000	11.42			
3855-82-1	1,4-Dichlorobenzene-d4	115000	13.353			

Report of Analysis

Client:	RU2 Engineering, LLC	Date Collected:	
Project:	NYCDDC SANTWOBR Brooklyn Bridge BBMCR	Date Received:	
Client Sample ID:	VY0203SBS01	SDG No.:	Q1215
Lab Sample ID:	VY0203SBS01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY021029.D	1		02/03/25 14:55	VY020325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	18.1		1.70	5.00	ug/Kg
74-87-3	Chloromethane	18.2		1.20	5.00	ug/Kg
75-01-4	Vinyl Chloride	17.8		0.77	5.00	ug/Kg
74-83-9	Bromomethane	18.3		1.00	5.00	ug/Kg
75-00-3	Chloroethane	17.5		1.00	5.00	ug/Kg
75-69-4	Trichlorofluoromethane	18.1		0.91	5.00	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	18.5		1.10	5.00	ug/Kg
75-65-0	Tert butyl alcohol	91.7		15.6	25.0	ug/Kg
75-35-4	1,1-Dichloroethene	18.0		0.78	5.00	ug/Kg
67-64-1	Acetone	83.7		6.20	25.0	ug/Kg
75-15-0	Carbon Disulfide	17.7		1.30	5.00	ug/Kg
1634-04-4	Methyl tert-butyl Ether	16.1		0.67	5.00	ug/Kg
79-20-9	Methyl Acetate	15.4		1.80	5.00	ug/Kg
75-09-2	Methylene Chloride	17.1		3.40	10.0	ug/Kg
156-60-5	trans-1,2-Dichloroethene	17.9		0.84	5.00	ug/Kg
75-34-3	1,1-Dichloroethane	17.6		0.63	5.00	ug/Kg
110-82-7	Cyclohexane	17.8		0.69	5.00	ug/Kg
78-93-3	2-Butanone	78.6		5.70	25.0	ug/Kg
56-23-5	Carbon Tetrachloride	18.0		0.87	5.00	ug/Kg
156-59-2	cis-1,2-Dichloroethene	17.4		0.61	5.00	ug/Kg
74-97-5	Bromochloromethane	16.4		2.40	5.00	ug/Kg
67-66-3	Chloroform	17.5		0.67	5.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	18.1		0.78	5.00	ug/Kg
108-87-2	Methylcyclohexane	18.5		0.87	5.00	ug/Kg
71-43-2	Benzene	18.1		0.72	5.00	ug/Kg
107-06-2	1,2-Dichloroethane	16.9		0.61	5.00	ug/Kg
79-01-6	Trichloroethene	18.1		0.75	5.00	ug/Kg
78-87-5	1,2-Dichloropropane	17.6		0.66	5.00	ug/Kg
75-27-4	Bromodichloromethane	17.2		0.56	5.00	ug/Kg
108-10-1	4-Methyl-2-Pentanone	79.4		4.40	25.0	ug/Kg

Report of Analysis

Client:	RU2 Engineering, LLC	Date Collected:	
Project:	NYCDDC SANTWOBR Brooklyn Bridge BBMCR	Date Received:	
Client Sample ID:	VY0203SBS01	SDG No.:	Q1215
Lab Sample ID:	VY0203SBS01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY021029.D	1		02/03/25 14:55	VY020325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
108-88-3	Toluene	18.1		0.67	5.00	ug/Kg
10061-02-6	t-1,3-Dichloropropene	17.1		0.60	5.00	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	17.5		0.57	5.00	ug/Kg
79-00-5	1,1,2-Trichloroethane	16.7		0.84	5.00	ug/Kg
591-78-6	2-Hexanone	76.7		4.80	25.0	ug/Kg
124-48-1	Dibromochloromethane	16.5		0.65	5.00	ug/Kg
106-93-4	1,2-Dibromoethane	16.7		0.79	5.00	ug/Kg
127-18-4	Tetrachloroethene	18.7		0.89	5.00	ug/Kg
108-90-7	Chlorobenzene	17.7		0.74	5.00	ug/Kg
100-41-4	Ethyl Benzene	18.5		0.62	5.00	ug/Kg
179601-23-1	m/p-Xylenes	37.2		1.40	10.0	ug/Kg
95-47-6	o-Xylene	18.2		0.70	5.00	ug/Kg
100-42-5	Styrene	18.2		0.60	5.00	ug/Kg
75-25-2	Bromoform	17.0		0.81	5.00	ug/Kg
98-82-8	Isopropylbenzene	18.7		0.67	5.00	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	16.4		1.10	5.00	ug/Kg
541-73-1	1,3-Dichlorobenzene	18.2		0.74	5.00	ug/Kg
106-46-7	1,4-Dichlorobenzene	17.9		0.80	5.00	ug/Kg
95-50-1	1,2-Dichlorobenzene	17.5		0.59	5.00	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	16.6		1.60	5.00	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	17.5		0.79	5.00	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	17.3		0.78	5.00	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	45.9		50 - 163	92%	SPK: 50
1868-53-7	Dibromofluoromethane	48.8		54 - 147	98%	SPK: 50
2037-26-5	Toluene-d8	50.2		58 - 134	100%	SPK: 50
460-00-4	4-Bromofluorobenzene	49.7		29 - 146	99%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	208000	7.713			
540-36-3	1,4-Difluorobenzene	315000	8.622			
3114-55-4	Chlorobenzene-d5	265000	11.42			
3855-82-1	1,4-Dichlorobenzene-d4	128000	13.352			

Report of Analysis

Client:	RU2 Engineering, LLC	Date Collected:	
Project:	NYCDDC SANTWOBR Brooklyn Bridge BBMCR	Date Received:	
Client Sample ID:	VY0203SBS01	SDG No.:	Q1215
Lab Sample ID:	VY0203SBS01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY021029.D	1		02/03/25 14:55	VY020325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
------------	-----------	-------	-----------	-----	------------	-------

U = Not Detected
 LOQ = Limit of Quantitation
 MDL = Method Detection Limit
 LOD = Limit of Detection
 E = Value Exceeds Calibration Range
 Q = indicates LCS control criteria did not meet requirements
 M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
 B = Analyte Found in Associated Method Blank
 N = Presumptive Evidence of a Compound
 * = Values outside of QC limits
 D = Dilution
 () = Laboratory InHouse Limit
 A = Aldol-Condensation Reaction Products

Report of Analysis

Client:	RU2 Engineering, LLC		Date Collected:	
Project:	NYCDDC SANTWOBR Brooklyn Bridge BBMCR		Date Received:	
Client Sample ID:	VY0204SBS01		SDG No.:	Q1215
Lab Sample ID:	VY0204SBS01		Matrix:	SOIL
Analytical Method:	SW8260		% Solid:	100
Sample Wt/Vol:	5	Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group1
GC Column:	RXI-624	ID : 0.25	Level :	LOW
Prep Method :				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY021048.D	1		02/04/25 10:52	VY020425

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	18.7		1.70	5.00	ug/Kg
74-87-3	Chloromethane	18.1		1.20	5.00	ug/Kg
75-01-4	Vinyl Chloride	17.9		0.77	5.00	ug/Kg
74-83-9	Bromomethane	17.8		1.00	5.00	ug/Kg
75-00-3	Chloroethane	17.7		1.00	5.00	ug/Kg
75-69-4	Trichlorofluoromethane	18.1		0.91	5.00	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	18.9		1.10	5.00	ug/Kg
75-65-0	Tert butyl alcohol	97.5		15.6	25.0	ug/Kg
75-35-4	1,1-Dichloroethene	18.1		0.78	5.00	ug/Kg
67-64-1	Acetone	95.3		6.20	25.0	ug/Kg
75-15-0	Carbon Disulfide	17.7		1.30	5.00	ug/Kg
1634-04-4	Methyl tert-butyl Ether	17.8		0.67	5.00	ug/Kg
79-20-9	Methyl Acetate	18.0		1.80	5.00	ug/Kg
75-09-2	Methylene Chloride	18.3		3.40	10.0	ug/Kg
156-60-5	trans-1,2-Dichloroethene	17.9		0.84	5.00	ug/Kg
75-34-3	1,1-Dichloroethane	18.6		0.63	5.00	ug/Kg
110-82-7	Cyclohexane	18.5		0.69	5.00	ug/Kg
78-93-3	2-Butanone	92.2		5.70	25.0	ug/Kg
56-23-5	Carbon Tetrachloride	18.8		0.87	5.00	ug/Kg
156-59-2	cis-1,2-Dichloroethene	18.3		0.61	5.00	ug/Kg
74-97-5	Bromochloromethane	19.9		2.40	5.00	ug/Kg
67-66-3	Chloroform	18.5		0.67	5.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	18.9		0.78	5.00	ug/Kg
108-87-2	Methylcyclohexane	18.4		0.87	5.00	ug/Kg
71-43-2	Benzene	18.5		0.72	5.00	ug/Kg
107-06-2	1,2-Dichloroethane	18.1		0.61	5.00	ug/Kg
79-01-6	Trichloroethene	18.6		0.75	5.00	ug/Kg
78-87-5	1,2-Dichloropropane	19.1		0.66	5.00	ug/Kg
75-27-4	Bromodichloromethane	18.6		0.56	5.00	ug/Kg
108-10-1	4-Methyl-2-Pentanone	92.4		4.40	25.0	ug/Kg

Report of Analysis

Client:	RU2 Engineering, LLC	Date Collected:	
Project:	NYCDDC SANTWOBR Brooklyn Bridge BBMCR	Date Received:	
Client Sample ID:	VY0204SBS01	SDG No.:	Q1215
Lab Sample ID:	VY0204SBS01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY021048.D	1		02/04/25 10:52	VY020425

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
108-88-3	Toluene	18.9		0.67	5.00	ug/Kg
10061-02-6	t-1,3-Dichloropropene	18.2		0.60	5.00	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	18.6		0.57	5.00	ug/Kg
79-00-5	1,1,2-Trichloroethane	18.4		0.84	5.00	ug/Kg
591-78-6	2-Hexanone	90.8		4.80	25.0	ug/Kg
124-48-1	Dibromochloromethane	18.3		0.65	5.00	ug/Kg
106-93-4	1,2-Dibromoethane	17.8		0.79	5.00	ug/Kg
127-18-4	Tetrachloroethene	18.9		0.89	5.00	ug/Kg
108-90-7	Chlorobenzene	18.6		0.74	5.00	ug/Kg
100-41-4	Ethyl Benzene	18.7		0.62	5.00	ug/Kg
179601-23-1	m/p-Xylenes	37.8		1.40	10.0	ug/Kg
95-47-6	o-Xylene	18.6		0.70	5.00	ug/Kg
100-42-5	Styrene	18.8		0.60	5.00	ug/Kg
75-25-2	Bromoform	18.6		0.81	5.00	ug/Kg
98-82-8	Isopropylbenzene	17.7		0.67	5.00	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	17.4		1.10	5.00	ug/Kg
541-73-1	1,3-Dichlorobenzene	17.9		0.74	5.00	ug/Kg
106-46-7	1,4-Dichlorobenzene	18.3		0.80	5.00	ug/Kg
95-50-1	1,2-Dichlorobenzene	18.2		0.59	5.00	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	16.3		1.60	5.00	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	18.3		0.79	5.00	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	17.8		0.78	5.00	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	44.3		50 - 163	89%	SPK: 50
1868-53-7	Dibromofluoromethane	44.6		54 - 147	89%	SPK: 50
2037-26-5	Toluene-d8	45.4		58 - 134	91%	SPK: 50
460-00-4	4-Bromofluorobenzene	45.0		29 - 146	90%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	160000	7.707			
540-36-3	1,4-Difluorobenzene	247000	8.616			
3114-55-4	Chlorobenzene-d5	212000	11.42			
3855-82-1	1,4-Dichlorobenzene-d4	109000	13.353			

Report of Analysis

Client:	RU2 Engineering, LLC	Date Collected:	
Project:	NYCDDC SANTWOBR Brooklyn Bridge BBMCR	Date Received:	
Client Sample ID:	VY0204SBS01	SDG No.:	Q1215
Lab Sample ID:	VY0204SBS01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY021048.D	1		02/04/25 10:52	VY020425

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
------------	-----------	-------	-----------	-----	------------	-------

U = Not Detected
 LOQ = Limit of Quantitation
 MDL = Method Detection Limit
 LOD = Limit of Detection
 E = Value Exceeds Calibration Range
 Q = indicates LCS control criteria did not meet requirements
 M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
 B = Analyte Found in Associated Method Blank
 N = Presumptive Evidence of a Compound
 * = Values outside of QC limits
 D = Dilution
 () = Laboratory InHouse Limit
 A = Aldol-Condensation Reaction Products

Report of Analysis

Client:	RU2 Engineering, LLC	Date Collected:	
Project:	NYCDDC SANTWOBR Brooklyn Bridge BBMCR	Date Received:	
Client Sample ID:	VY0203SBSD01	SDG No.:	Q1215
Lab Sample ID:	VY0203SBSD01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY021030.D	1		02/03/25 15:17	VY020325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
75-71-8	Dichlorodifluoromethane	19.5		1.70	5.00	ug/Kg
74-87-3	Chloromethane	19.0		1.20	5.00	ug/Kg
75-01-4	Vinyl Chloride	18.7		0.77	5.00	ug/Kg
74-83-9	Bromomethane	19.2		1.00	5.00	ug/Kg
75-00-3	Chloroethane	18.9		1.00	5.00	ug/Kg
75-69-4	Trichlorofluoromethane	19.3		0.91	5.00	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	19.7		1.10	5.00	ug/Kg
75-65-0	Tert butyl alcohol	120		15.6	25.0	ug/Kg
75-35-4	1,1-Dichloroethene	19.6		0.78	5.00	ug/Kg
67-64-1	Acetone	97.7		6.20	25.0	ug/Kg
75-15-0	Carbon Disulfide	18.9		1.30	5.00	ug/Kg
1634-04-4	Methyl tert-butyl Ether	19.6		0.67	5.00	ug/Kg
79-20-9	Methyl Acetate	19.3		1.80	5.00	ug/Kg
75-09-2	Methylene Chloride	19.3		3.40	10.0	ug/Kg
156-60-5	trans-1,2-Dichloroethene	18.9		0.84	5.00	ug/Kg
75-34-3	1,1-Dichloroethane	18.7		0.63	5.00	ug/Kg
110-82-7	Cyclohexane	19.5		0.69	5.00	ug/Kg
78-93-3	2-Butanone	99.3		5.70	25.0	ug/Kg
56-23-5	Carbon Tetrachloride	19.2		0.87	5.00	ug/Kg
156-59-2	cis-1,2-Dichloroethene	19.0		0.61	5.00	ug/Kg
74-97-5	Bromochloromethane	18.1		2.40	5.00	ug/Kg
67-66-3	Chloroform	19.2		0.67	5.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	19.4		0.78	5.00	ug/Kg
108-87-2	Methylcyclohexane	19.7		0.87	5.00	ug/Kg
71-43-2	Benzene	19.4		0.72	5.00	ug/Kg
107-06-2	1,2-Dichloroethane	19.3		0.61	5.00	ug/Kg
79-01-6	Trichloroethene	19.3		0.75	5.00	ug/Kg
78-87-5	1,2-Dichloropropane	19.5		0.66	5.00	ug/Kg
75-27-4	Bromodichloromethane	18.9		0.56	5.00	ug/Kg
108-10-1	4-Methyl-2-Pentanone	99.9		4.40	25.0	ug/Kg

Report of Analysis

Client:	RU2 Engineering, LLC	Date Collected:	
Project:	NYCDDC SANTWOBR Brooklyn Bridge BBMCR	Date Received:	
Client Sample ID:	VY0203SBSD01	SDG No.:	Q1215
Lab Sample ID:	VY0203SBSD01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY021030.D	1		02/03/25 15:17	VY020325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
108-88-3	Toluene	19.8		0.67	5.00	ug/Kg
10061-02-6	t-1,3-Dichloropropene	19.5		0.60	5.00	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	19.2		0.57	5.00	ug/Kg
79-00-5	1,1,2-Trichloroethane	19.3		0.84	5.00	ug/Kg
591-78-6	2-Hexanone	99.3		4.80	25.0	ug/Kg
124-48-1	Dibromochloromethane	19.2		0.65	5.00	ug/Kg
106-93-4	1,2-Dibromoethane	19.0		0.79	5.00	ug/Kg
127-18-4	Tetrachloroethene	19.9		0.89	5.00	ug/Kg
108-90-7	Chlorobenzene	19.7		0.74	5.00	ug/Kg
100-41-4	Ethyl Benzene	19.9		0.62	5.00	ug/Kg
179601-23-1	m/p-Xylenes	40.2		1.40	10.0	ug/Kg
95-47-6	o-Xylene	19.8		0.70	5.00	ug/Kg
100-42-5	Styrene	20.1		0.60	5.00	ug/Kg
75-25-2	Bromoform	20.0		0.81	5.00	ug/Kg
98-82-8	Isopropylbenzene	19.5		0.67	5.00	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	19.2		1.10	5.00	ug/Kg
541-73-1	1,3-Dichlorobenzene	19.5		0.74	5.00	ug/Kg
106-46-7	1,4-Dichlorobenzene	19.3		0.80	5.00	ug/Kg
95-50-1	1,2-Dichlorobenzene	19.3		0.59	5.00	ug/Kg
96-12-8	1,2-Dibromo-3-Chloropropane	18.9		1.60	5.00	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	18.9		0.79	5.00	ug/Kg
87-61-6	1,2,3-Trichlorobenzene	19.3		0.78	5.00	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	49.0		50 - 163	98%	SPK: 50
1868-53-7	Dibromofluoromethane	48.3		54 - 147	97%	SPK: 50
2037-26-5	Toluene-d8	50.2		58 - 134	100%	SPK: 50
460-00-4	4-Bromofluorobenzene	49.7		29 - 146	99%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	204000	7.713			
540-36-3	1,4-Difluorobenzene	314000	8.616			
3114-55-4	Chlorobenzene-d5	262000	11.42			
3855-82-1	1,4-Dichlorobenzene-d4	128000	13.352			

Report of Analysis

Client:	RU2 Engineering, LLC	Date Collected:	
Project:	NYCDDC SANTWOBR Brooklyn Bridge BBMCR	Date Received:	
Client Sample ID:	VY0203SBSD01	SDG No.:	Q1215
Lab Sample ID:	VY0203SBSD01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY021030.D	1		02/03/25 15:17	VY020325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
------------	-----------	-------	-----------	-----	------------	-------

U = Not Detected
 LOQ = Limit of Quantitation
 MDL = Method Detection Limit
 LOD = Limit of Detection
 E = Value Exceeds Calibration Range
 Q = indicates LCS control criteria did not meet requirements
 M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
 B = Analyte Found in Associated Method Blank
 N = Presumptive Evidence of a Compound
 * = Values outside of QC limits
 D = Dilution
 () = Laboratory InHouse Limit
 A = Aldol-Condensation Reaction Products



CALIBRATION SUMMARY

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: RUTW01

Lab Code: CHEM Case No.: Q1215 SAS No.: Q1215 SDG No.: Q1215

Instrument ID: MSVOA_Y Calibration Date(s): 02/03/2025 02/03/2025

Heated Purge: (Y/N) Y Calibration Time(s): 10:35 12:44

GC Column: RXI-624 ID: 0.25 (mm)

LAB FILE ID:		RRF005 = VY021020.D		RRF010 = VY021021.D		RRF020 = VY021022.D		RRF050 = VY021023.D		RRF100 = VY021024.D		RRF150 = VY021025.D	
COMPOUND		RRF005	RRF010	RRF020	RRF050	RRF100	RRF150	RRF	% RSD				
Dichlorodifluoromethane		0.503	0.438	0.413	0.445	0.419	0.457	0.446	7.2				
Chloromethane		0.524	0.445	0.408	0.421	0.404	0.437	0.440	10.1				
Vinyl Chloride		0.535	0.441	0.404	0.424	0.408	0.443	0.443	10.9				
Bromomethane		0.356	0.275	0.249	0.258	0.246	0.257	0.274	15.2				
Chloroethane		0.316	0.270	0.240	0.255	0.239	0.261	0.263	10.7				
Trichlorofluoromethane		0.924	0.814	0.755	0.789	0.743	0.813	0.806	8				
1,1,2-Trichlorotrifluoroethane		0.587	0.507	0.472	0.494	0.466	0.510	0.506	8.6				
Tert butyl alcohol		0.042	0.039	0.035	0.032	0.028	0.032	0.035	14.8				
1,1-Dichloroethene		0.529	0.471	0.441	0.469	0.452	0.498	0.477	6.8				
Acetone		0.087	0.083	0.078	0.077	0.070	0.083	0.080	7.5				
Carbon Disulfide		1.673	1.456	1.389	1.475	1.421	1.556	1.495	7				
Methyl tert-butyl Ether		1.271	1.185	1.168	1.216	1.124	1.265	1.205	4.8				
Methyl Acetate		0.300	0.282	0.268	0.287	0.253	0.291	0.280	6.1				
Methylene Chloride		0.570	0.506	0.473	0.485	0.452	0.494	0.497	8.2				
trans-1,2-Dichloroethene		0.578	0.518	0.502	0.522	0.490	0.538	0.525	5.8				
1,1-Dichloroethane		1.104	0.948	0.923	0.947	0.911	0.989	0.970	7.3				
Cyclohexane		1.093	0.885	0.807	0.827	0.779	0.852	0.874	13				
2-Butanone		0.134	0.133	0.126	0.135	0.121	0.139	0.131	5.2				
Carbon Tetrachloride		0.604	0.551	0.522	0.547	0.522	0.581	0.555	5.9				
cis-1,2-Dichloroethene		0.662	0.584	0.577	0.599	0.575	0.626	0.604	5.7				
Bromochloromethane		0.373	0.368	0.381	0.413	0.374	0.394	0.384	4.4				
Chloroform		1.107	1.016	0.947	0.982	0.921	1.006	0.997	6.5				
1,1,1-Trichloroethane		1.067	0.901	0.867	0.912	0.863	0.949	0.927	8.2				
Methylcyclohexane		0.609	0.550	0.536	0.588	0.570	0.629	0.581	6.1				
Benzene		1.512	1.382	1.327	1.378	1.323	1.436	1.393	5.1				
1,2-Dichloroethane		0.435	0.390	0.367	0.379	0.352	0.395	0.386	7.4				
Trichloroethene		0.401	0.355	0.341	0.349	0.338	0.375	0.360	6.7				
1,2-Dichloropropane		0.357	0.329	0.319	0.327	0.311	0.341	0.331	5				
Bromodichloromethane		0.528	0.500	0.469	0.482	0.459	0.506	0.491	5.2				
4-Methyl-2-Pentanone		0.202	0.211	0.202	0.216	0.194	0.224	0.208	5.2				

* Compounds with required minimum RRF and maximum %RSD values.
All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: RUTW01

Lab Code: CHEM Case No.: Q1215 SAS No.: Q1215 SDG No.: Q1215

Instrument ID: MSVOA_Y Calibration Date(s): 02/03/2025 02/03/2025

Heated Purge: (Y/N) Y Calibration Time(s): 10:35 12:44

GC Column: RXI-624 ID: 0.25 (mm)

LAB FILE ID:								
RRF005 = VY021020.D			RRF010 = VY021021.D			RRF020 = VY021022.D		
RRF050 = VY021023.D			RRF100 = VY021024.D			RRF150 = VY021025.D		
COMPOUND	RRF005	RRF010	RRF020	RRF050	RRF100	RRF150	RRF	% RSD
Toluene	0.913	0.856	0.840	0.876	0.844	0.918	0.875	3.9
t-1,3-Dichloropropene	0.441	0.426	0.419	0.449	0.427	0.483	0.441	5.3
cis-1,3-Dichloropropene	0.528	0.516	0.502	0.525	0.501	0.560	0.522	4.2
1,1,2-Trichloroethane	0.261	0.235	0.231	0.235	0.217	0.242	0.237	6.1
2-Hexanone	0.124	0.131	0.128	0.144	0.129	0.149	0.134	7.4
Dibromochloromethane	0.359	0.330	0.324	0.329	0.310	0.346	0.333	5.2
1,2-Dibromoethane	0.232	0.223	0.215	0.225	0.203	0.233	0.222	5
Tetrachloroethene	0.409	0.367	0.352	0.361	0.351	0.387	0.371	6.2
Chlorobenzene	1.237	1.115	1.054	1.080	1.048	1.146	1.113	6.4
Ethyl Benzene	2.101	1.899	1.865	1.943	1.914	2.093	1.969	5.2
m/p-Xylenes	0.772	0.723	0.709	0.733	0.711	0.773	0.737	3.9
o-Xylene	0.723	0.658	0.660	0.681	0.670	0.729	0.687	4.6
Styrene	1.154	1.118	1.105	1.156	1.128	1.208	1.145	3.2
Bromoform	0.231	0.222	0.217	0.216	0.205	0.229	0.220	4.4
Isopropylbenzene	4.122	3.695	3.673	3.809	3.871	4.263	3.906	6.1
1,1,2,2-Tetrachloroethane	0.707	0.646	0.635	0.632	0.597	0.680	0.650	6
1,3-Dichlorobenzene	1.937	1.686	1.660	1.683	1.652	1.824	1.740	6.6
1,4-Dichlorobenzene	1.906	1.702	1.632	1.665	1.599	1.778	1.714	6.6
1,2-Dichlorobenzene	1.668	1.524	1.440	1.460	1.405	1.567	1.510	6.4
1,2-Dibromo-3-Chloropropane	0.099	0.099	0.089	0.097	0.089	0.109	0.097	7.6
1,2,4-Trichlorobenzene	0.796	0.754	0.743	0.875	0.873	1.004	0.841	11.6
1,2,3-Trichlorobenzene	0.641	0.640	0.626	0.733	0.726	0.832	0.700	11.4
1,2-Dichloroethane-d4	0.566	0.557	0.478	0.503	0.454	0.516	0.512	8.5
Dibromofluoromethane	0.351	0.326	0.301	0.313	0.297	0.333	0.320	6.4
Toluene-d8	1.295	1.237	1.139	1.202	1.158	1.288	1.220	5.3
4-Bromofluorobenzene	0.417	0.408	0.371	0.403	0.375	0.418	0.399	5.2

* Compounds with required minimum RRF and maximum %RSD values.
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: RUTW01

Lab Code: CHEM Case No.: Q1215 SAS No.: Q1215 SDG No.: Q1215

Instrument ID: MSVOA_Y Calibration Date/Time: 02/04/2025 09:47

Lab File ID: VY021046.D Init. Calib. Date(s): 02/03/2025 02/03/2025

Heated Purge: (Y/N) Y Init. Calib. Time(s): 10:35 12:44

GC Column: RXI-624 ID: 0.25 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.446	0.470		5.38	20
Chloromethane	0.440	0.443	0.1	0.68	20
Vinyl Chloride	0.443	0.443		0	20
Bromomethane	0.274	0.270		-1.46	20
Chloroethane	0.263	0.263		0	20
Trichlorofluoromethane	0.806	0.812		0.74	20
1,1,2-Trichlorotrifluoroethane	0.506	0.522		3.16	20
Tert butyl alcohol	0.035	0.035		0	20
1,1-Dichloroethene	0.477	0.489		2.52	20
Acetone	0.080	0.085		6.25	20
Carbon Disulfide	1.495	1.571		5.08	20
Methyl tert-butyl Ether	1.205	1.270		5.39	20
Methyl Acetate	0.280	0.312		11.43	20
Methylene Chloride	0.497	0.513		3.22	20
trans-1,2-Dichloroethene	0.525	0.550		4.76	20
1,1-Dichloroethane	0.970	1.014	0.1	4.54	20
Cyclohexane	0.874	0.883		1.03	20
2-Butanone	0.131	0.143		9.16	20
Carbon Tetrachloride	0.555	0.591		6.49	20
cis-1,2-Dichloroethene	0.604	0.639		5.8	20
Bromochloromethane	0.384	0.407		5.99	20
Chloroform	0.997	1.045		4.81	20
1,1,1-Trichloroethane	0.927	0.969		4.53	20
Methylcyclohexane	0.581	0.623		7.23	20
Benzene	1.393	1.501		7.75	20
1,2-Dichloroethane	0.386	0.414		7.25	20
Trichloroethene	0.360	0.380		5.56	20
1,2-Dichloropropane	0.331	0.357		7.86	20
Bromodichloromethane	0.491	0.518		5.5	20
4-Methyl-2-Pentanone	0.208	0.238		14.42	20
Toluene	0.875	0.954		9.03	20
t-1,3-Dichloropropene	0.441	0.486		10.2	20
cis-1,3-Dichloropropene	0.522	0.569		9	20
1,1,2-Trichloroethane	0.237	0.253		6.75	20
2-Hexanone	0.134	0.157		17.16	20
Dibromochloromethane	0.333	0.359		7.81	20
1,2-Dibromoethane	0.222	0.240		8.11	20
Tetrachloroethene	0.371	0.387		4.31	20

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: RUTW01

Lab Code: CHEM Case No.: Q1215 SAS No.: Q1215 SDG No.: Q1215

Instrument ID: MSVOA_Y Calibration Date/Time: 02/04/2025 09:47

Lab File ID: VY021046.D Init. Calib. Date(s): 02/03/2025 02/03/2025

Heated Purge: (Y/N) Y Init. Calib. Time(s): 10:35 12:44

GC Column: RXI-624 ID: 0.25 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Chlorobenzene	1.113	1.159	0.3	4.13	20
Ethyl Benzene	1.969	2.119		7.62	20
m/p-Xylenes	0.737	0.793		7.6	20
o-Xylene	0.687	0.747		8.73	20
Styrene	1.145	1.261		10.13	20
Bromoform	0.220	0.240	0.1	9.09	20
Isopropylbenzene	3.906	4.054		3.76	20
1,1,2,2-Tetrachloroethane	0.650	0.677	0.3	4.15	20
1,3-Dichlorobenzene	1.740	1.821		4.66	20
1,4-Dichlorobenzene	1.714	1.787		4.26	20
1,2-Dichlorobenzene	1.510	1.568		3.84	20
1,2-Dibromo-3-Chloropropane	0.097	0.101		4.12	20
1,2,4-Trichlorobenzene	0.841	0.932		10.82	20
1,2,3-Trichlorobenzene	0.700	0.777		11	20
1,2-Dichloroethane-d4	0.512	0.534		4.3	20
Dibromofluoromethane	0.320	0.343		7.19	20
Toluene-d8	1.220	1.329		8.93	20
4-Bromofluorobenzene	0.399	0.446		11.78	20

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