

LAB CHRONICLE

OrderID:	Q1985	OrderDate:	5/8/2025 10:49:00 AM
Client:	Tetra Tech NUS, Inc.	Project:	NWIRP Bethpage 112G08005-WE13
Contact:	Ernie Wu	Location:	L41,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1985-01	RW8-BW-20250507	Water	VOCMS Group1	8260-Low	05/07/25		05/08/25	05/08/25
Q1985-02	TB-20250507	Water	VOCMS Group1	8260-Low	05/07/25		05/08/25	05/08/25



284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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Hit Summary Sheet
SW-846

SDG No.: Q1985
Client: Tetra Tech NUS, Inc.

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	LOD	RDL	Units
Client ID:				0					
Total Voc :									
Total Concentration:									



SAMPLE DATA

Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:	05/07/25	
Project:	NWIRP Bethpage 112G08005-WE13		Date Received:	05/08/25	
Client Sample ID:	RW8-BW-20250507		SDG No.:	Q1985	
Lab Sample ID:	Q1985-01		Matrix:	Water	
Analytical Method:	SW8260		% Solid:	0	
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000	uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group1	
GC Column:	DB-624UI	ID : 0.18	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX046085.D	1		05/08/25 12:55	VX050825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
74-87-3	Chloromethane	0.50	U	0.32	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	0.75	U	0.26	0.75	1.00	ug/L
74-83-9	Bromomethane	3.80	U	1.40	3.80	5.00	ug/L
75-00-3	Chloroethane	0.75	U	0.47	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.50	U	0.33	0.50	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.50	U	0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.75	U	0.23	0.75	1.00	ug/L
67-64-1	Acetone	3.80	U	1.50	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	0.75	U	0.21	0.75	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.50	U	0.16	0.50	1.00	ug/L
75-09-2	Methylene Chloride	0.50	U	0.28	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.50	U	0.23	0.50	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.50	U	0.23	0.50	1.00	ug/L
78-93-3	2-Butanone	2.50	U	0.98	2.50	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.50	U	0.25	0.50	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.75	U	0.19	0.75	1.00	ug/L
67-66-3	Chloroform	0.50	U	0.25	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.50	U	0.20	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	0.50	U	0.16	0.50	1.00	ug/L
71-43-2	Benzene	0.50	U	0.15	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.50	U	0.22	0.50	1.00	ug/L
79-01-6	Trichloroethene	0.75	U	0.090	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.50	U	0.20	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	0.50	U	0.22	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	2.50	U	0.68	2.50	5.00	ug/L
108-88-3	Toluene	0.50	U	0.14	0.50	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	0.50	U	0.17	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.16	0.50	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.50	U	0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	2.50	U	0.89	2.50	5.00	ug/L

Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:	05/07/25	
Project:	NWIRP Bethpage 112G08005-WE13		Date Received:	05/08/25	
Client Sample ID:	RW8-BW-20250507		SDG No.:	Q1985	
Lab Sample ID:	Q1985-01		Matrix:	Water	
Analytical Method:	SW8260		% Solid:	0	
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000	uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group1	
GC Column:	DB-624UI	ID : 0.18	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX046085.D	1		05/08/25 12:55	VX050825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
124-48-1	Dibromochloromethane	0.50	U	0.18	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	0.50	U	0.23	0.50	1.00	ug/L
108-90-7	Chlorobenzene	0.50	U	0.12	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	0.50	U	0.13	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	1.00	U	0.24	1.00	2.00	ug/L
95-47-6	o-Xylene	0.50	U	0.12	0.50	1.00	ug/L
100-42-5	Styrene	0.50	U	0.15	0.50	1.00	ug/L
75-25-2	Bromoform	0.50	U	0.19	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	0.50	U	0.12	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.26	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.50	U	0.16	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.50	U	0.19	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.50	U	0.16	0.50	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	53.6		81 - 118		107%	SPK: 50
1868-53-7	Dibromofluoromethane	51.1		80 - 119		102%	SPK: 50
2037-26-5	Toluene-d8	49.4		89 - 112		99%	SPK: 50
460-00-4	4-Bromofluorobenzene	49.3		85 - 114		99%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	65700	5.544				
540-36-3	1,4-Difluorobenzene	131000	6.757				
3114-55-4	Chlorobenzene-d5	122000	10.049				
3855-82-1	1,4-Dichlorobenzene-d4	50300	12.018				
TENTATIVE IDENTIFIED COMPOUNDS							
75-43-4	Dichlorofluoromethane	N.D					

Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:	05/07/25	
Project:	NWIRP Bethpage 112G08005-WE13		Date Received:	05/08/25	
Client Sample ID:	RW8-BW-20250507		SDG No.:	Q1985	
Lab Sample ID:	Q1985-01		Matrix:	Water	
Analytical Method:	SW8260		% Solid:	0	
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000	uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group1	
GC Column:	DB-624UI	ID : 0.18	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX046085.D	1		05/08/25 12:55	VX050825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
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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:	Tetra Tech NUS, Inc.		Date Collected:	05/07/25	
Project:	NWIRP Bethpage 112G08005-WE13		Date Received:	05/08/25	
Client Sample ID:	TB-20250507		SDG No.:	Q1985	
Lab Sample ID:	Q1985-02		Matrix:	Water	
Analytical Method:	SW8260		% Solid:	0	
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000	uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group1	
GC Column:	DB-624UI	ID : 0.18	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX046084.D	1		05/08/25 12:32	VX050825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
74-87-3	Chloromethane	0.50	U	0.32	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	0.75	U	0.26	0.75	1.00	ug/L
74-83-9	Bromomethane	3.80	U	1.40	3.80	5.00	ug/L
75-00-3	Chloroethane	0.75	U	0.47	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.50	U	0.33	0.50	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.50	U	0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.75	U	0.23	0.75	1.00	ug/L
67-64-1	Acetone	3.80	U	1.50	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	0.75	U	0.21	0.75	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.50	U	0.16	0.50	1.00	ug/L
75-09-2	Methylene Chloride	0.50	U	0.28	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.50	U	0.23	0.50	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.50	U	0.23	0.50	1.00	ug/L
78-93-3	2-Butanone	2.50	U	0.98	2.50	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.50	U	0.25	0.50	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.75	U	0.19	0.75	1.00	ug/L
67-66-3	Chloroform	0.50	U	0.25	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.50	U	0.20	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	0.50	U	0.16	0.50	1.00	ug/L
71-43-2	Benzene	0.50	U	0.15	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.50	U	0.22	0.50	1.00	ug/L
79-01-6	Trichloroethene	0.75	U	0.090	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.50	U	0.20	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	0.50	U	0.22	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	2.50	U	0.68	2.50	5.00	ug/L
108-88-3	Toluene	0.50	U	0.14	0.50	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	0.50	U	0.17	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.16	0.50	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.50	U	0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	2.50	U	0.89	2.50	5.00	ug/L

Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:	05/07/25	
Project:	NWIRP Bethpage 112G08005-WE13		Date Received:	05/08/25	
Client Sample ID:	TB-20250507		SDG No.:	Q1985	
Lab Sample ID:	Q1985-02		Matrix:	Water	
Analytical Method:	SW8260		% Solid:	0	
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000	uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group1	
GC Column:	DB-624UI	ID : 0.18	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX046084.D	1		05/08/25 12:32	VX050825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
124-48-1	Dibromochloromethane	0.50	U	0.18	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	0.50	U	0.23	0.50	1.00	ug/L
108-90-7	Chlorobenzene	0.50	U	0.12	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	0.50	U	0.13	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	1.00	U	0.24	1.00	2.00	ug/L
95-47-6	o-Xylene	0.50	U	0.12	0.50	1.00	ug/L
100-42-5	Styrene	0.50	U	0.15	0.50	1.00	ug/L
75-25-2	Bromoform	0.50	U	0.19	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	0.50	U	0.12	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.26	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.50	U	0.16	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.50	U	0.19	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.50	U	0.16	0.50	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	51.4		81 - 118		103%	SPK: 50
1868-53-7	Dibromofluoromethane	49.4		80 - 119		99%	SPK: 50
2037-26-5	Toluene-d8	49.2		89 - 112		98%	SPK: 50
460-00-4	4-Bromofluorobenzene	49.4		85 - 114		99%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	64100	5.55				
540-36-3	1,4-Difluorobenzene	126000	6.757				
3114-55-4	Chlorobenzene-d5	115000	10.049				
3855-82-1	1,4-Dichlorobenzene-d4	49500	12.018				
TENTATIVE IDENTIFIED COMPOUNDS							
75-43-4	Dichlorofluoromethane	N.D					

Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:	05/07/25	
Project:	NWIRP Bethpage 112G08005-WE13		Date Received:	05/08/25	
Client Sample ID:	TB-20250507		SDG No.:	Q1985	
Lab Sample ID:	Q1985-02		Matrix:	Water	
Analytical Method:	SW8260		% Solid:	0	
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000	uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group1	
GC Column:	DB-624UI	ID : 0.18	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX046084.D	1		05/08/25 12:32	VX050825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
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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.: Q1985

Client: Tetra Tech NUS, Inc.

Analytical Method: SW8260-Low

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits	
						Low	High
Q1985-01	RW8-BW-20250507	1,2-Dichloroethane-d4	50	53.6	107	81	118
		Dibromofluoromethane	50	51.1	102	80	119
		Toluene-d8	50	49.5	99	89	112
		4-Bromofluorobenzene	50	49.3	99	85	114
Q1985-02	TB-20250507	1,2-Dichloroethane-d4	50	51.4	103	81	118
		Dibromofluoromethane	50	49.4	99	80	119
		Toluene-d8	50	49.2	98	89	112
		4-Bromofluorobenzene	50	49.4	99	85	114
VX0508WBL01	VX0508WBL01	1,2-Dichloroethane-d4	50	52.5	105	81	118
		Dibromofluoromethane	50	49.3	99	80	119
		Toluene-d8	50	49.8	100	89	112
		4-Bromofluorobenzene	50	48.3	97	85	114
VX0508WBS01	VX0508WBS01	1,2-Dichloroethane-d4	50	49.8	100	81	118
		Dibromofluoromethane	50	50.2	100	80	119
		Toluene-d8	50	49.1	98	89	112
		4-Bromofluorobenzene	50	48.2	96	85	114
VX0508WBSD0	VX0508WBSD01	1,2-Dichloroethane-d4	50	50.9	102	81	118
		Dibromofluoromethane	50	50.0	100	80	119
		Toluene-d8	50	49.9	100	89	112
		4-Bromofluorobenzene	50	49.4	99	85	114

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1985

Client: Tetra Tech NUS, Inc.

Analytical Method: SW8260-Low

Datafile : VX046081.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VX0508WBS01	Chloromethane	20	18.6	ug/L	93			50	139	
	Vinyl chloride	20	18.5	ug/L	93			58	137	
	Bromomethane	20	17.9	ug/L	90			53	141	
	Chloroethane	20	19.3	ug/L	97			60	138	
	Trichlorofluoromethane	20	19.3	ug/L	97			65	141	
	1,1,2-Trichlorotrifluoroethane	20	18.5	ug/L	93			70	136	
	1,1-Dichloroethene	20	18.4	ug/L	92			71	131	
	Acetone	100	93.0	ug/L	93			39	160	
	Carbon disulfide	20	17.3	ug/L	86			64	133	
	Methyl tert-butyl Ether	20	19.3	ug/L	97			71	124	
	Methylene Chloride	20	17.5	ug/L	88			74	124	
	trans-1,2-Dichloroethene	20	18.8	ug/L	94			75	124	
	1,1-Dichloroethane	20	19.4	ug/L	97			77	125	
	2-Butanone	100	96.5	ug/L	97			56	143	
	Carbon Tetrachloride	20	18.9	ug/L	95			72	136	
	cis-1,2-Dichloroethene	20	19.5	ug/L	98			78	123	
	Chloroform	20	19.8	ug/L	99			79	124	
	1,1,1-Trichloroethane	20	19.2	ug/L	96			74	131	
	Methylcyclohexane	20	18.2	ug/L	91			72	132	
	Benzene	20	19.4	ug/L	97			79	120	
	1,2-Dichloroethane	20	18.9	ug/L	95			73	128	
	Trichloroethene	20	18.6	ug/L	93			79	123	
	1,2-Dichloropropane	20	19.5	ug/L	98			78	122	
	Bromodichloromethane	20	19.2	ug/L	96			79	125	
	4-Methyl-2-Pentanone	100	97.8	ug/L	98			67	130	
	Toluene	20	19.1	ug/L	96			80	121	
	t-1,3-Dichloropropene	20	17.8	ug/L	89			73	127	
	cis-1,3-Dichloropropene	20	18.6	ug/L	93			75	124	
	1,1,2-Trichloroethane	20	19.3	ug/L	97			80	119	
	2-Hexanone	100	98.2	ug/L	98			57	139	
	Dibromochloromethane	20	19.3	ug/L	97			74	126	
	Tetrachloroethene	20	18.9	ug/L	95			74	129	
	Chlorobenzene	20	18.8	ug/L	94			82	118	
	Ethyl Benzene	20	19.6	ug/L	98			79	121	
	m/p-Xylenes	40	39.2	ug/L	98			80	121	
	o-Xylene	20	20.1	ug/L	101			78	122	
	Styrene	20	19.9	ug/L	100			78	123	
	Bromoform	20	18.7	ug/L	94			66	130	
	Isopropylbenzene	20	20.2	ug/L	101			72	131	
	1,1,2,2-Tetrachloroethane	20	19.5	ug/L	98			71	121	
	1,3-Dichlorobenzene	20	19.5	ug/L	98			80	119	
	1,4-Dichlorobenzene	20	19.1	ug/L	96			79	118	
	1,2-Dichlorobenzene	20	20.1	ug/L	101			80	119	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1985

Client: Tetra Tech NUS, Inc.

Analytical Method: SW8260-Low

Datafile : VX046082.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VX0508WBSD01	Chloromethane	20	19.2	ug/L	96	3		50	139	20
	Vinyl chloride	20	18.0	ug/L	90	3		58	137	20
	Bromomethane	20	18.0	ug/L	90	0		53	141	20
	Chloroethane	20	19.0	ug/L	95	2		60	138	20
	Trichlorofluoromethane	20	19.2	ug/L	96	1		65	141	20
	1,1,2-Trichlorotrifluoroethane	20	19.3	ug/L	97	4		70	136	20
	1,1-Dichloroethene	20	18.3	ug/L	92	0		71	131	20
	Acetone	100	98.2	ug/L	98	5		39	160	20
	Carbon disulfide	20	17.4	ug/L	87	1		64	133	20
	Methyl tert-butyl Ether	20	20.0	ug/L	100	3		71	124	20
	Methylene Chloride	20	18.4	ug/L	92	4		74	124	20
	trans-1,2-Dichloroethene	20	19.1	ug/L	96	2		75	124	20
	1,1-Dichloroethane	20	19.8	ug/L	99	2		77	125	20
	2-Butanone	100	100	ug/L	100	3		56	143	20
	Carbon Tetrachloride	20	18.9	ug/L	95	0		72	136	20
	cis-1,2-Dichloroethene	20	19.8	ug/L	99	1		78	123	20
	Chloroform	20	19.9	ug/L	100	1		79	124	20
	1,1,1-Trichloroethane	20	19.6	ug/L	98	2		74	131	20
	Methylcyclohexane	20	18.5	ug/L	93	2		72	132	20
	Benzene	20	19.3	ug/L	97	0		79	120	20
	1,2-Dichloroethane	20	20.2	ug/L	101	6		73	128	20
	Trichloroethene	20	19.3	ug/L	97	4		79	123	20
	1,2-Dichloropropane	20	20.3	ug/L	102	4		78	122	20
	Bromodichloromethane	20	19.8	ug/L	99	3		79	125	20
	4-Methyl-2-Pentanone	100	110	ug/L	110	12		67	130	20
	Toluene	20	19.5	ug/L	98	2		80	121	20
	t-1,3-Dichloropropene	20	19.1	ug/L	96	8		73	127	20
	cis-1,3-Dichloropropene	20	19.9	ug/L	100	7		75	124	20
	1,1,2-Trichloroethane	20	20.6	ug/L	103	6		80	119	20
	2-Hexanone	100	110	ug/L	110	12		57	139	20
	Dibromochloromethane	20	20.4	ug/L	102	5		74	126	20
	Tetrachloroethene	20	19.0	ug/L	95	0		74	129	20
	Chlorobenzene	20	18.8	ug/L	94	0		82	118	20
	Ethyl Benzene	20	19.5	ug/L	98	0		79	121	20
	m/p-Xylenes	40	39.4	ug/L	99	1		80	121	20
	o-Xylene	20	19.8	ug/L	99	2		78	122	20
	Styrene	20	20.0	ug/L	100	0		78	123	20
	Bromoform	20	19.4	ug/L	97	3		66	130	20
	Isopropylbenzene	20	20.1	ug/L	101	0		72	131	20
	1,1,2,2-Tetrachloroethane	20	20.4	ug/L	102	4		71	121	20
	1,3-Dichlorobenzene	20	19.7	ug/L	99	1		80	119	20
	1,4-Dichlorobenzene	20	19.5	ug/L	98	2		79	118	20
	1,2-Dichlorobenzene	20	20.3	ug/L	102	1		80	119	20

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VX0508WBL01

Lab Name: CHEMTECH

Contract: TETR06

Lab Code: CHEM Case No.: Q1985

SAS No.: Q1985 SDG NO.: Q1985

Lab File ID: VX046080.D

Lab Sample ID: VX0508WBL01

Date Analyzed: 05/08/2025

Time Analyzed: 10:56

GC Column: DB-624UI ID: 0.18 (mm)

Heated Purge: (Y/N) N

Instrument ID: MSVOA_X

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
VX0508WBS01	VX0508WBS01	VX046081.D	05/08/2025
VX0508WBSD01	VX0508WBSD01	VX046082.D	05/08/2025
TB-20250507	Q1985-02	VX046084.D	05/08/2025
RW8-BW-20250507	Q1985-01	VX046085.D	05/08/2025

COMMENTS: _____

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: TETR06
Lab Code: CHEM Case No.: Q1985 SAS No.: Q1985 SDG NO.: Q1985
Lab File ID: VX046038.D BFB Injection Date: 05/05/2025
Instrument ID: MSVOA_X BFB Injection Time: 09:37
GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	22.1
75	30.0 - 60.0% of mass 95	56.2
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.4
173	Less than 2.0% of mass 174	0.5 (0.7) 1
174	50.0 - 100.0% of mass 95	68.8
175	5.0 - 9.0% of mass 174	5 (7.3) 1
176	95.0 - 101.0% of mass 174	66.7 (97) 1
177	5.0 - 9.0% of mass 176	4.6 (6.9) 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
VSTDICC020	VSTDICC020	VX046041.D	05/05/2025	11:35
VSTDICCC050	VSTDICCC050	VX046042.D	05/05/2025	11:58
VSTDICC100	VSTDICC100	VX046043.D	05/05/2025	12:21
VSTDICC150	VSTDICC150	VX046044.D	05/05/2025	12:45
VSTDICC005	VSTDICC005	VX046046.D	05/05/2025	16:04
VSTDICC001	VSTDICC001	VX046047.D	05/05/2025	16:27

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: TETR06
Lab Code: CHEM Case No.: Q1985 SAS No.: Q1985 SDG NO.: Q1985
Lab File ID: VX046077.D BFB Injection Date: 05/08/2025
Instrument ID: MSVOA_X BFB Injection Time: 09:36
GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	22.3
75	30.0 - 60.0% of mass 95	56.5
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	0.8 (1.2) 1
174	50.0 - 100.0% of mass 95	67.8
175	5.0 - 9.0% of mass 174	5.1 (7.5) 1
176	95.0 - 101.0% of mass 174	64.8 (95.5) 1
177	5.0 - 9.0% of mass 176	4.5 (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
VSTDCCC050	VSTDCCC050	VX046078.D	05/08/2025	10:05
VX0508WBL01	VX0508WBL01	VX046080.D	05/08/2025	10:56
VX0508WBS01	VX0508WBS01	VX046081.D	05/08/2025	11:20
VX0508WBSD01	VX0508WBSD01	VX046082.D	05/08/2025	11:45
TB-20250507	Q1985-02	VX046084.D	05/08/2025	12:32
RW8-BW-20250507	Q1985-01	VX046085.D	05/08/2025	12:55
VSTDCCC050EC	VSTDCCC050	VX046100.D	05/08/2025	18:46

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: TETR06
Lab Code: CHEM Case No.: Q1985 SAS No.: Q1985 SDG NO.: Q1985
Lab File ID: VX046078.D Date Analyzed: 05/08/2025
Instrument ID: MSVOA_X Time Analyzed: 10:05
GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: (Y/N) N

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	105825	5.54	181991	6.75	158314	10.05
UPPER LIMIT	211650	6.044	363982	7.251	316628	10.549
LOWER LIMIT	52912.5	5.044	90995.5	6.251	79157	9.549
EPA SAMPLE NO.						
RW8-BW-20250507	65710	5.54	131109	6.76	121918	10.05
TB-20250507	64053	5.55	126115	6.76	114932	10.05
VX0508WBL01	66087	5.54	132156	6.76	121254	10.05
VX0508WBS01	97732	5.54	172839	6.76	147787	10.05
VX0508WBSD01	89125	5.54	157859	6.76	138205	10.05

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: TETR06
Lab Code: CHEM Case No.: Q1985 SAS No.: Q1985 SDG NO.: Q1985
Lab File ID: VX046078.D Date Analyzed: 05/08/2025
Instrument ID: MSVOA_X Time Analyzed: 10:05
GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: (Y/N) N

	IS4 AREA #	RT #				
12 HOUR STD	73554	12.018				
UPPER LIMIT	147108	12.518				
LOWER LIMIT	36777	11.518				
EPA SAMPLE NO.						
RW8-BW-20250507	50270	12.02				
TB-20250507	49527	12.02				
VX0508WBL01	49493	12.02				
VX0508WBS01	68652	12.02				
VX0508WBSD01	63610	12.02				

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:	Tetra Tech NUS, Inc.		Date Collected:	
Project:	NWIRP Bethpage 112G08005-WE13		Date Received:	
Client Sample ID:	VX0508WBL01		SDG No.:	Q1985
Lab Sample ID:	VX0508WBL01		Matrix:	Water
Analytical Method:	SW8260		% Solid:	0
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group1
GC Column:	DB-624UI	ID : 0.18	Level :	LOW
Prep Method :				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX046080.D	1		05/08/25 10:56	VX050825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
74-87-3	Chloromethane	0.50	U	0.32	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	0.75	U	0.26	0.75	1.00	ug/L
74-83-9	Bromomethane	3.80	U	1.40	3.80	5.00	ug/L
75-00-3	Chloroethane	0.75	U	0.47	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.50	U	0.33	0.50	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.50	U	0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.75	U	0.23	0.75	1.00	ug/L
67-64-1	Acetone	3.80	U	1.50	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	0.75	U	0.21	0.75	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.50	U	0.16	0.50	1.00	ug/L
75-09-2	Methylene Chloride	0.50	U	0.28	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.50	U	0.23	0.50	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.50	U	0.23	0.50	1.00	ug/L
78-93-3	2-Butanone	2.50	U	0.98	2.50	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.50	U	0.25	0.50	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.75	U	0.19	0.75	1.00	ug/L
67-66-3	Chloroform	0.50	U	0.25	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.50	U	0.20	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	0.50	U	0.16	0.50	1.00	ug/L
71-43-2	Benzene	0.50	U	0.15	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.50	U	0.22	0.50	1.00	ug/L
79-01-6	Trichloroethene	0.75	U	0.090	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.50	U	0.20	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	0.50	U	0.22	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	2.50	U	0.68	2.50	5.00	ug/L
108-88-3	Toluene	0.50	U	0.14	0.50	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	0.50	U	0.17	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.16	0.50	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.50	U	0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	2.50	U	0.89	2.50	5.00	ug/L

Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:	
Project:	NWIRP Bethpage 112G08005-WE13		Date Received:	
Client Sample ID:	VX0508WBL01		SDG No.:	Q1985
Lab Sample ID:	VX0508WBL01		Matrix:	Water
Analytical Method:	SW8260		% Solid:	0
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group1
GC Column:	DB-624UI	ID : 0.18	Level :	LOW
Prep Method :				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX046080.D	1		05/08/25 10:56	VX050825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
124-48-1	Dibromochloromethane	0.50	U	0.18	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	0.50	U	0.23	0.50	1.00	ug/L
108-90-7	Chlorobenzene	0.50	U	0.12	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	0.50	U	0.13	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	1.00	U	0.24	1.00	2.00	ug/L
95-47-6	o-Xylene	0.50	U	0.12	0.50	1.00	ug/L
100-42-5	Styrene	0.50	U	0.15	0.50	1.00	ug/L
75-25-2	Bromoform	0.50	U	0.19	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	0.50	U	0.12	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.26	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.50	U	0.16	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.50	U	0.19	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.50	U	0.16	0.50	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	52.5		81 - 118		105%	SPK: 50
1868-53-7	Dibromofluoromethane	49.3		80 - 119		99%	SPK: 50
2037-26-5	Toluene-d8	49.8		89 - 112		100%	SPK: 50
460-00-4	4-Bromofluorobenzene	48.3		85 - 114		97%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	66100	5.544				
540-36-3	1,4-Difluorobenzene	132000	6.757				
3114-55-4	Chlorobenzene-d5	121000	10.049				
3855-82-1	1,4-Dichlorobenzene-d4	49500	12.018				

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:	Tetra Tech NUS, Inc.		Date Collected:	
Project:	NWIRP Bethpage 112G08005-WE13		Date Received:	
Client Sample ID:	VX0508WBS01		SDG No.:	Q1985
Lab Sample ID:	VX0508WBS01		Matrix:	Water
Analytical Method:	SW8260		% Solid:	0
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group1
GC Column:	DB-624UI	ID : 0.18	Level :	LOW
Prep Method :				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX046081.D	1		05/08/25 11:20	VX050825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
74-87-3	Chloromethane	18.6		0.32	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	18.5		0.26	0.75	1.00	ug/L
74-83-9	Bromomethane	17.9		1.40	3.80	5.00	ug/L
75-00-3	Chloroethane	19.3		0.47	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	19.3		0.33	0.50	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	18.5		0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	18.4		0.23	0.75	1.00	ug/L
67-64-1	Acetone	93.0		1.50	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	17.3		0.21	0.75	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	19.3		0.16	0.50	1.00	ug/L
75-09-2	Methylene Chloride	17.5		0.28	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	18.8		0.23	0.50	1.00	ug/L
75-34-3	1,1-Dichloroethane	19.4		0.23	0.50	1.00	ug/L
78-93-3	2-Butanone	96.5		0.98	2.50	5.00	ug/L
56-23-5	Carbon Tetrachloride	18.9		0.25	0.50	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	19.5		0.19	0.75	1.00	ug/L
67-66-3	Chloroform	19.8		0.25	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	19.2		0.20	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	18.2		0.16	0.50	1.00	ug/L
71-43-2	Benzene	19.4		0.15	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	18.9		0.22	0.50	1.00	ug/L
79-01-6	Trichloroethene	18.6		0.090	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	19.5		0.20	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	19.2		0.22	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	97.8		0.68	2.50	5.00	ug/L
108-88-3	Toluene	19.1		0.14	0.50	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	17.8		0.17	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	18.6		0.16	0.50	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	19.3		0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	98.2		0.89	2.50	5.00	ug/L

Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:	
Project:	NWIRP Bethpage 112G08005-WE13		Date Received:	
Client Sample ID:	VX0508WBS01		SDG No.:	Q1985
Lab Sample ID:	VX0508WBS01		Matrix:	Water
Analytical Method:	SW8260		% Solid:	0
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group1
GC Column:	DB-624UI	ID : 0.18	Level :	LOW
Prep Method :				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX046081.D	1		05/08/25 11:20	VX050825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
124-48-1	Dibromochloromethane	19.3		0.18	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	18.9		0.23	0.50	1.00	ug/L
108-90-7	Chlorobenzene	18.8		0.12	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	19.6		0.13	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	39.2		0.24	1.00	2.00	ug/L
95-47-6	o-Xylene	20.1		0.12	0.50	1.00	ug/L
100-42-5	Styrene	19.9		0.15	0.50	1.00	ug/L
75-25-2	Bromoform	18.7		0.19	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	20.2		0.12	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	19.5		0.26	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	19.5		0.16	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	19.1		0.19	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	20.1		0.16	0.50	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	49.8		81 - 118		100%	SPK: 50
1868-53-7	Dibromofluoromethane	50.2		80 - 119		100%	SPK: 50
2037-26-5	Toluene-d8	49.1		89 - 112		98%	SPK: 50
460-00-4	4-Bromofluorobenzene	48.2		85 - 114		96%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	97700	5.544				
540-36-3	1,4-Difluorobenzene	173000	6.757				
3114-55-4	Chlorobenzene-d5	148000	10.049				
3855-82-1	1,4-Dichlorobenzene-d4	68700	12.018				

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:	Tetra Tech NUS, Inc.		Date Collected:	
Project:	NWIRP Bethpage 112G08005-WE13		Date Received:	
Client Sample ID:	VX0508WBSD01		SDG No.:	Q1985
Lab Sample ID:	VX0508WBSD01		Matrix:	Water
Analytical Method:	SW8260		% Solid:	0
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group1
GC Column:	DB-624UI	ID : 0.18	Level :	LOW
Prep Method :				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX046082.D	1		05/08/25 11:45	VX050825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
74-87-3	Chloromethane	19.2		0.32	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	18.0		0.26	0.75	1.00	ug/L
74-83-9	Bromomethane	18.0		1.40	3.80	5.00	ug/L
75-00-3	Chloroethane	19.0		0.47	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	19.2		0.33	0.50	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	19.3		0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	18.3		0.23	0.75	1.00	ug/L
67-64-1	Acetone	98.2		1.50	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	17.4		0.21	0.75	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	20.0		0.16	0.50	1.00	ug/L
75-09-2	Methylene Chloride	18.4		0.28	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	19.1		0.23	0.50	1.00	ug/L
75-34-3	1,1-Dichloroethane	19.8		0.23	0.50	1.00	ug/L
78-93-3	2-Butanone	100		0.98	2.50	5.00	ug/L
56-23-5	Carbon Tetrachloride	18.9		0.25	0.50	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	19.8		0.19	0.75	1.00	ug/L
67-66-3	Chloroform	19.9		0.25	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	19.6		0.20	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	18.5		0.16	0.50	1.00	ug/L
71-43-2	Benzene	19.3		0.15	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	20.2		0.22	0.50	1.00	ug/L
79-01-6	Trichloroethene	19.3		0.090	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	20.3		0.20	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	19.8		0.22	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	110		0.68	2.50	5.00	ug/L
108-88-3	Toluene	19.5		0.14	0.50	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	19.1		0.17	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	19.9		0.16	0.50	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	20.6		0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	110		0.89	2.50	5.00	ug/L

Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:	
Project:	NWIRP Bethpage 112G08005-WE13		Date Received:	
Client Sample ID:	VX0508WBSD01		SDG No.:	Q1985
Lab Sample ID:	VX0508WBSD01		Matrix:	Water
Analytical Method:	SW8260		% Solid:	0
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group1
GC Column:	DB-624UI	ID : 0.18	Level :	LOW
Prep Method :				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX046082.D	1		05/08/25 11:45	VX050825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
124-48-1	Dibromochloromethane	20.4		0.18	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	19.0		0.23	0.50	1.00	ug/L
108-90-7	Chlorobenzene	18.8		0.12	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	19.5		0.13	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	39.4		0.24	1.00	2.00	ug/L
95-47-6	o-Xylene	19.8		0.12	0.50	1.00	ug/L
100-42-5	Styrene	20.0		0.15	0.50	1.00	ug/L
75-25-2	Bromoform	19.4		0.19	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	20.1		0.12	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	20.4		0.26	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	19.7		0.16	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	19.5		0.19	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	20.3		0.16	0.50	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	50.9		81 - 118		102%	SPK: 50
1868-53-7	Dibromofluoromethane	50.1		80 - 119		100%	SPK: 50
2037-26-5	Toluene-d8	49.9		89 - 112		100%	SPK: 50
460-00-4	4-Bromofluorobenzene	49.4		85 - 114		99%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	89100	5.544				
540-36-3	1,4-Difluorobenzene	158000	6.757				
3114-55-4	Chlorobenzene-d5	138000	10.049				
3855-82-1	1,4-Dichlorobenzene-d4	63600	12.018				

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:	<u>CHEMTECH</u>	Contract:	<u>TETR06</u>
Lab Code:	<u>CHEM</u>	Case No.:	<u>Q1985</u>
Instrument ID:	<u>MSVOA_X</u>	SAS No.:	<u>Q1985</u>
Heated Purge: (Y/N)	<u>N</u>	SDG No.:	<u>Q1985</u>
GC Column:	<u>DB-624UI</u>	Calibration Date(s):	<u>05/05/2025</u>
ID:	<u>0.18 (mm)</u>	Calibration Time(s):	<u>11:35</u>
			<u>16:27</u>

LAB FILE ID:	RRF020 = VX046041.D	RRF050 = VX046042.D	RRF100 = VX046043.D	RRF150 = VX046044.D	RRF005 = VX046046.D	RRF001 = VX046047.D		
COMPOUND	RRF020	RRF050	RRF100	RRF150	RRF005	RRF001	RRF	% RSD
Chloromethane	0.727	0.775	0.787	0.791	0.679	0.694	0.742	6.6
Vinyl Chloride	0.660	0.710	0.727	0.755	0.619	0.673	0.691	7.2
Bromomethane	0.296	0.326	0.340	0.334	0.305		0.320	5.8
Chloroethane	0.354	0.378	0.329	0.317	0.368	0.467	0.369	14.4
Trichlorofluoromethane	1.035	1.068	0.983	0.985	0.990	1.064	1.021	3.9
1,1,2-Trichlorotrifluoroethane	0.628	0.641	0.629	0.648	0.610	0.633	0.632	2.1
1,1-Dichloroethene	0.565	0.601	0.607	0.625	0.567	0.594	0.593	3.9
Acetone	0.361	0.362	0.361	0.370	0.408	0.380	0.374	4.9
Carbon Disulfide	1.295	1.455	1.522	1.597	1.141	1.423	1.406	11.7
Methyl tert-butyl Ether	2.044	2.160	2.172	2.239	1.908	1.949	2.079	6.4
Methylene Chloride	0.689	0.684	0.691	0.691	0.689	0.853	0.716	9.4
trans-1,2-Dichloroethene	0.573	0.610	0.612	0.622	0.557	0.604	0.596	4.3
1,1-Dichloroethane	1.233	1.263	1.263	1.286	1.154	1.116	1.219	5.6
2-Butanone	0.540	0.555	0.558	0.569	0.539	0.495	0.543	4.8
Carbon Tetrachloride	0.528	0.558	0.552	0.577	0.505	0.541	0.544	4.6
cis-1,2-Dichloroethene	0.716	0.737	0.738	0.755	0.642	0.719	0.718	5.5
Chloroform	1.287	1.296	1.277	1.300	1.199	1.265	1.271	3
1,1,1-Trichloroethane	1.106	1.131	1.155	1.188	1.013	1.015	1.101	6.6
Methylcyclohexane	0.596	0.641	0.627	0.658	0.587	0.627	0.623	4.3
Benzene	1.426	1.474	1.441	1.477	1.337	1.348	1.417	4.3
1,2-Dichloroethane	0.632	0.627	0.611	0.625	0.594	0.579	0.612	3.5
Trichloroethene	0.344	0.355	0.345	0.362	0.315	0.324	0.341	5.3
1,2-Dichloropropane	0.356	0.371	0.368	0.378	0.324	0.317	0.352	7.4
Bromodichloromethane	0.557	0.577	0.573	0.594	0.498	0.485	0.547	8.2
4-Methyl-2-Pentanone	0.620	0.634	0.630	0.631	0.555	0.561	0.605	6
Toluene	0.884	0.898	0.885	0.904	0.838	0.803	0.869	4.5
t-1,3-Dichloropropene	0.468	0.528	0.555	0.591	0.406	0.371	0.487	17.9
cis-1,3-Dichloropropene	0.531	0.578	0.602	0.623	0.469	0.423	0.538	14.6
1,1,2-Trichloroethane	0.349	0.354	0.351	0.356	0.337	0.308	0.343	5.3
2-Hexanone	0.466	0.473	0.477	0.473	0.414	0.385	0.448	8.7

* 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: TETR06

Lab Code: CHEM Case No.: Q1985 SAS No.: Q1985 SDG No.: Q1985

Instrument ID: MSVOA_X Calibration Date(s): 05/05/2025 05/05/2025

Heated Purge: (Y/N) N Calibration Time(s): 11:35 16:27

GC Column: DB-624UI ID: 0.18 (mm)

LAB FILE ID:		RRF020 = VX046041.D		RRF050 = VX046042.D		RRF100 = VX046043.D			
		RRF150 = VX046044.D		RRF005 = VX046046.D		RRF001 = VX046047.D			
COMPOUND	RRF020	RRF050	RRF100	RRF150	RRF005	RRF001	RRF	% RSD	
Dibromochloromethane	0.378	0.400	0.415	0.431	0.326	0.306	0.376	13.3	
Tetrachloroethene	0.390	0.375	0.345	0.344	0.323	0.347	0.354	6.8	
Chlorobenzene	1.093	1.098	1.085	1.114	1.046	1.131	1.094	2.7	
Ethyl Benzene	1.919	2.022	1.979	2.036	1.816	1.803	1.929	5.2	
m/p-Xylenes	0.706	0.740	0.721	0.740	0.678	0.648	0.706	5.2	
o-Xylene	0.688	0.727	0.706	0.726	0.639	0.642	0.688	5.7	
Styrene	1.135	1.219	1.214	1.230	1.012	0.951	1.127	10.6	
Bromoform	0.270	0.304	0.312	0.327	0.236	0.234	0.281	14.2	
Isopropylbenzene	3.843	4.130	3.876	4.156	3.562	3.789	3.893	5.7	
1,1,2,2-Tetrachloroethane	1.315	1.338	1.284	1.345	1.350	1.552	1.364	7	
1,3-Dichlorobenzene	1.633	1.701	1.656	1.730	1.558	1.619	1.649	3.7	
1,4-Dichlorobenzene	1.629	1.693	1.639	1.722	1.606	1.817	1.684	4.6	
1,2-Dichlorobenzene	1.613	1.696	1.634	1.702	1.577	1.710	1.655	3.3	
1,2-Dichloroethane-d4	0.953	0.910	0.930	0.932	0.935		0.932	1.6	
Dibromofluoromethane	0.359	0.355	0.364	0.368	0.354		0.360	1.7	
Toluene-d8	1.246	1.223	1.266	1.275	1.221		1.246	2	
4-Bromofluorobenzene	0.455	0.470	0.500	0.500	0.464		0.478	4.4	

* 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: TETR06

Lab Code: CHEM Case No.: Q1985 SAS No.: Q1985 SDG No.: Q1985

Instrument ID: MSVOA_X Calibration Date/Time: 05/08/2025 10:05

Lab File ID: VX046078.D Init. Calib. Date(s): 05/05/2025 05/05/2025

Heated Purge: (Y/N) N Init. Calib. Time(s): 11:35 16:27

GC Column: DB-624UI ID: 0.18 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Chloromethane	0.742	0.707	0.1	-4.72	20
Vinyl Chloride	0.691	0.643		-6.95	20
Bromomethane	0.320	0.281		-12.19	20
Chloroethane	0.369	0.352		-4.61	20
Trichlorofluoromethane	1.021	0.997		-2.35	20
1,1,2-Trichlorotrifluoroethane	0.632	0.610		-3.48	20
1,1-Dichloroethene	0.593	0.554		-6.58	20
Acetone	0.374	0.352		-5.88	20
Carbon Disulfide	1.406	1.312		-6.69	20
Methyl tert-butyl Ether	2.079	1.974		-5.05	20
Methylene Chloride	0.716	0.617		-13.83	20
trans-1,2-Dichloroethene	0.596	0.560		-6.04	20
1,1-Dichloroethane	1.219	1.143	0.1	-6.24	20
2-Butanone	0.543	0.506		-6.81	20
Carbon Tetrachloride	0.544	0.519		-4.6	20
cis-1,2-Dichloroethene	0.718	0.664		-7.52	20
Chloroform	1.271	1.202		-5.43	20
1,1,1-Trichloroethane	1.101	1.037		-5.81	20
Methylcyclohexane	0.623	0.579		-7.06	20
Benzene	1.417	1.330		-6.14	20
1,2-Dichloroethane	0.612	0.565		-7.68	20
Trichloroethene	0.341	0.325		-4.69	20
1,2-Dichloropropane	0.352	0.336		-4.55	20
Bromodichloromethane	0.547	0.530		-3.11	20
4-Methyl-2-Pentanone	0.605	0.573		-5.29	20
Toluene	0.869	0.808		-7.02	20
t-1,3-Dichloropropene	0.487	0.478		-1.85	20
cis-1,3-Dichloropropene	0.538	0.529		-1.67	20
1,1,2-Trichloroethane	0.343	0.319		-7	20
2-Hexanone	0.448	0.423		-5.58	20
Dibromochloromethane	0.376	0.371		-1.33	20
Tetrachloroethene	0.354	0.343		-3.11	20
Chlorobenzene	1.094	0.988	0.3	-9.69	20
Ethyl Benzene	1.929	1.833		-4.98	20
m/p-Xylenes	0.706	0.665		-5.81	20
o-Xylene	0.688	0.646		-6.11	20
Styrene	1.127	1.099		-2.48	20
Bromoform	0.281	0.273	0.1	-2.85	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: TETR06

Lab Code: CHEM Case No.: Q1985 SAS No.: Q1985 SDG No.: Q1985

Instrument ID: MSVOA_X Calibration Date/Time: 05/08/2025 10:05

Lab File ID: VX046078.D Init. Calib. Date(s): 05/05/2025 05/05/2025

Heated Purge: (Y/N) N Init. Calib. Time(s): 11:35 16:27

GC Column: DB-624UI ID: 0.18 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Isopropylbenzene	3.893	3.770		-3.16	20
1,1,2,2-Tetrachloroethane	1.364	1.206	0.3	-11.58	20
1,3-Dichlorobenzene	1.649	1.576		-4.43	20
1,4-Dichlorobenzene	1.684	1.554		-7.72	20
1,2-Dichlorobenzene	1.655	1.544		-6.71	20
1,2-Dichloroethane-d4	0.932	0.825		-11.48	20
Dibromofluoromethane	0.360	0.332		-7.78	20
Toluene-d8	1.246	1.149		-7.78	20
4-Bromofluorobenzene	0.478	0.428		-10.46	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: TETR06

Lab Code: CHEM Case No.: Q1985 SAS No.: Q1985 SDG No.: Q1985

Instrument ID: MSVOA_X Calibration Date/Time: 05/08/2025 18:46

Lab File ID: VX046100.D Init. Calib. Date(s): 05/05/2025 05/05/2025

Heated Purge: (Y/N) N Init. Calib. Time(s): 11:35 16:27

GC Column: DB-624UI ID: 0.18 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Chloromethane	0.742	0.761	0.1	2.56	50
Vinyl Chloride	0.691	0.697		0.87	50
Bromomethane	0.320	0.301		-5.94	50
Chloroethane	0.369	0.377		2.17	50
Trichlorofluoromethane	1.021	1.051		2.94	50
1,1,2-Trichlorotrifluoroethane	0.632	0.641		1.42	50
1,1-Dichloroethene	0.593	0.589		-0.68	50
Acetone	0.374	0.389		4.01	50
Carbon Disulfide	1.406	1.508		7.26	50
Methyl tert-butyl Ether	2.079	2.183		5	50
Methylene Chloride	0.716	0.688		-3.91	50
trans-1,2-Dichloroethene	0.596	0.596		0	50
1,1-Dichloroethane	1.219	1.275	0.1	4.59	50
2-Butanone	0.543	0.582		7.18	50
Carbon Tetrachloride	0.544	0.559		2.76	50
cis-1,2-Dichloroethene	0.718	0.741		3.2	50
Chloroform	1.271	1.318		3.7	50
1,1,1-Trichloroethane	1.101	1.150		4.45	50
Methylcyclohexane	0.623	0.607		-2.57	50
Benzene	1.417	1.453		2.54	50
1,2-Dichloroethane	0.612	0.625		2.12	50
Trichloroethene	0.341	0.344		0.88	50
1,2-Dichloropropane	0.352	0.373		5.97	50
Bromodichloromethane	0.547	0.585		6.95	50
4-Methyl-2-Pentanone	0.605	0.658		8.76	50
Toluene	0.869	0.886		1.96	50
t-1,3-Dichloropropene	0.487	0.507		4.11	50
cis-1,3-Dichloropropene	0.538	0.561		4.28	50
1,1,2-Trichloroethane	0.343	0.353		2.91	50
2-Hexanone	0.448	0.496		10.71	50
Dibromochloromethane	0.376	0.409		8.78	50
Tetrachloroethene	0.354	0.354		0	50
Chlorobenzene	1.094	1.092	0.3	-0.18	50
Ethyl Benzene	1.929	2.015		4.46	50
m/p-Xylenes	0.706	0.731		3.54	50
o-Xylene	0.688	0.727		5.67	50
Styrene	1.127	1.222		8.43	50
Bromoform	0.281	0.310	0.1	10.32	50

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: TETR06

Lab Code: CHEM Case No.: Q1985 SAS No.: Q1985 SDG No.: Q1985

Instrument ID: MSVOA_X Calibration Date/Time: 05/08/2025 18:46

Lab File ID: VX046100.D Init. Calib. Date(s): 05/05/2025 05/05/2025

Heated Purge: (Y/N) N Init. Calib. Time(s): 11:35 16:27

GC Column: DB-624UI ID: 0.18 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Isopropylbenzene	3.893	3.977		2.16	50
1,1,2,2-Tetrachloroethane	1.364	1.354	0.3	-0.73	50
1,3-Dichlorobenzene	1.649	1.648		-0.06	50
1,4-Dichlorobenzene	1.684	1.636		-2.85	50
1,2-Dichlorobenzene	1.655	1.664		0.54	50
1,2-Dichloroethane-d4	0.932	0.905		-2.9	50
Dibromofluoromethane	0.360	0.350		-2.78	50
Toluene-d8	1.246	1.213		-2.65	50
4-Bromofluorobenzene	0.478	0.464		-2.93	50

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