

LAB CHRONICLE

OrderID:	P5314	OrderDate:	12/17/2024 3:43:00 PM
Client:	Tetra Tech NUS, Inc.	Project:	CTO WE13
Contact:	Ernie Wu	Location:	L51,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P5314-01	BP-VPB-190A-TB-202 41213	Water			12/13/24			12/17/24
			VOCMS Group1	8260-Low			12/20/24	
P5314-02	BP-VPB-190A-GW-678 -680	Water			12/13/24			12/17/24
			VOCMS Group1	8260-Low			12/20/24	
P5314-02DL	BP-VPB-190A-GW-678 -680DL	Water			12/13/24			12/17/24
			VOCMS Group1	8260-Low			12/20/24	
P5314-03	BP-VPB-190A-GW-698 -700	Water			12/13/24			12/17/24
			VOCMS Group1	8260-Low			12/20/24	
P5314-04	VPB190A-HYD-20241 217	Water			12/17/24			12/17/24
			VOCMS Group1	8260-Low			12/20/24	

Hit Summary Sheet SW-846

SDG No.: P5314
Client: Tetra Tech NUS, Inc.

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	LOD	RDL	Units
Client ID:	BP-VPB-190A-GW-678-680								
P5314-02	BP-VPB-190A-GW	Water	1,1,2-Trichlorotrifluoroethane	5.40		0.25	0.50	1.00	ug/L
P5314-02	BP-VPB-190A-GW	Water	1,1-Dichloroethene	1.40		0.26	0.75	1.00	ug/L
P5314-02	BP-VPB-190A-GW	Water	Acetone	5.00		1.40	3.80	5.00	ug/L
P5314-02	BP-VPB-190A-GW	Water	Carbon Tetrachloride	1.40		0.25	0.50	1.00	ug/L
P5314-02	BP-VPB-190A-GW	Water	cis-1,2-Dichloroethene	1.60		0.25	0.75	1.00	ug/L
P5314-02	BP-VPB-190A-GW	Water	Chloroform	0.85	J	0.26	0.50	1.00	ug/L
P5314-02	BP-VPB-190A-GW	Water	Trichloroethene	290	E	0.32	0.75	1.00	ug/L
P5314-02	BP-VPB-190A-GW	Water	1,1,2-Trichloroethane	1.30		0.21	0.50	1.00	ug/L
Total Voc :				307					
Total Concentration:				307					
Client ID:	BP-VPB-190A-GW-678-680DL								
P5314-02DL	BP-VPB-190A-GW	Water	1,1,2-Trichlorotrifluoroethane	5.70	D	1.30	2.50	5.00	ug/L
P5314-02DL	BP-VPB-190A-GW	Water	1,1-Dichloroethene	1.90	JD	1.30	3.80	5.00	ug/L
P5314-02DL	BP-VPB-190A-GW	Water	Acetone	8.10	JD	7.00	18.8	25.0	ug/L
P5314-02DL	BP-VPB-190A-GW	Water	cis-1,2-Dichloroethene	1.90	JD	1.30	3.80	5.00	ug/L
P5314-02DL	BP-VPB-190A-GW	Water	Trichloroethene	300	D	1.60	3.80	5.00	ug/L
P5314-02DL	BP-VPB-190A-GW	Water	1,1,2-Trichloroethane	1.80	JD	1.10	2.50	5.00	ug/L
Total Voc :				319					
Total Concentration:				319					
Client ID:	BP-VPB-190A-GW-698-700								
P5314-03	BP-VPB-190A-GW	Water	Acetone	10.9		1.40	3.80	5.00	ug/L
P5314-03	BP-VPB-190A-GW	Water	2-Butanone	1.70	J	1.30	2.50	5.00	ug/L
P5314-03	BP-VPB-190A-GW	Water	Trichloroethene	4.40		0.32	0.75	1.00	ug/L
Total Voc :				17.0					
Total Concentration:				17.0					
Client ID:	VPB190A-HYD-20241217								
P5314-04	VPB190A-HYD-20	Water	Acetone	2.70	J	1.40	3.80	5.00	ug/L
Total Voc :				2.70					
Total Concentration:				2.70					



SAMPLE DATA

Report of Analysis

Client:	Tetra Tech NUS, Inc.			Date Collected:	12/13/24	
Project:	CTO WE13			Date Received:	12/17/24	
Client Sample ID:	BP-VPB-190A-TB-20241213			SDG No.:	P5314	
Lab Sample ID:	P5314-01			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
VX044445.D	1		12/20/24 12:26	VX122024

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
74-87-3	Chloromethane	0.50	U	0.35	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	0.75	U	0.34	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	0.56	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.50	U	0.34	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	0.26	0.75	1.00	ug/L
67-64-1	Acetone	3.80	U	1.40	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	0.75	U	0.32	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	0.32	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.50	U	0.25	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	1.30	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	0.25	0.75	1.00	ug/L
67-66-3	Chloroform	0.50	U	0.26	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.50	U	0.19	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	0.50	U	0.19	0.50	1.00	ug/L
71-43-2	Benzene	0.50	U	0.16	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.50	U	0.24	0.50	1.00	ug/L
79-01-6	Trichloroethene	0.75	U	0.32	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.50	U	0.19	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	0.50	U	0.24	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	2.50	U	0.75	2.50	5.00	ug/L
108-88-3	Toluene	0.50	U	0.18	0.50	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	0.50	U	0.21	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.18	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	1.10	2.50	5.00	ug/L

Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:	12/13/24	
Project:	CTO WE13		Date Received:	12/17/24	
Client Sample ID:	BP-VPB-190A-TB-20241213		SDG No.:	P5314	
Lab Sample ID:	P5314-01		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
VX044445.D	1		12/20/24 12:26	VX122024

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	0.25	0.50	1.00	ug/L
108-90-7	Chlorobenzene	0.50	U	0.13	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	0.50	U	0.16	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	1.00	U	0.31	1.00	2.00	ug/L
95-47-6	o-Xylene	0.50	U	0.14	0.50	1.00	ug/L
100-42-5	Styrene	0.50	U	0.16	0.50	1.00	ug/L
75-25-2	Bromoform	0.50	U	0.21	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	0.50	U	0.13	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.27	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.50	U	0.24	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.50	U	0.27	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.50	U	0.19	0.50	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	43.0		81 - 118		86%	SPK: 50
1868-53-7	Dibromofluoromethane	46.2		80 - 119		92%	SPK: 50
2037-26-5	Toluene-d8	50.5		89 - 112		101%	SPK: 50
460-00-4	4-Bromofluorobenzene	47.1		85 - 114		94%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	118000	5.55				
540-36-3	1,4-Difluorobenzene	209000	6.757				
3114-55-4	Chlorobenzene-d5	178000	10.055				
3855-82-1	1,4-Dichlorobenzene-d4	71900	12.018				
TENTATIVE IDENTIFIED COMPOUNDS							
75-43-4	Dichlorofluoromethane	N.D					

Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:	12/13/24	
Project:	CTO WE13		Date Received:	12/17/24	
Client Sample ID:	BP-VPB-190A-TB-20241213		SDG No.:	P5314	
Lab Sample ID:	P5314-01		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
VX044445.D	1		12/20/24 12:26	VX122024

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:	12/13/24	
Project:	CTO WE13		Date Received:	12/17/24	
Client Sample ID:	BP-VPB-190A-GW-678-680		SDG No.:	P5314	
Lab Sample ID:	P5314-02		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
VX044447.D	1		12/20/24 13:13	VX122024

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
74-87-3	Chloromethane	0.50	U	0.35	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	0.75	U	0.34	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	0.56	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.50	U	0.34	0.50	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	5.40		0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	1.40		0.26	0.75	1.00	ug/L
67-64-1	Acetone	5.00		1.40	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	0.75	U	0.32	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	0.32	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.50	U	0.25	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	1.30	2.50	5.00	ug/L
56-23-5	Carbon Tetrachloride	1.40		0.25	0.50	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	1.60		0.25	0.75	1.00	ug/L
67-66-3	Chloroform	0.85	J	0.26	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.50	U	0.19	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	0.50	U	0.19	0.50	1.00	ug/L
71-43-2	Benzene	0.50	U	0.16	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.50	U	0.24	0.50	1.00	ug/L
79-01-6	Trichloroethene	290	E	0.32	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.50	U	0.19	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	0.50	U	0.24	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	2.50	U	0.75	2.50	5.00	ug/L
108-88-3	Toluene	0.50	U	0.18	0.50	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	0.50	U	0.21	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.18	0.50	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	1.30		0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	2.50	U	1.10	2.50	5.00	ug/L

Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:	12/13/24	
Project:	CTO WE13		Date Received:	12/17/24	
Client Sample ID:	BP-VPB-190A-GW-678-680		SDG No.:	P5314	
Lab Sample ID:	P5314-02		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
VX044447.D	1		12/20/24 13:13	VX122024

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	0.25	0.50	1.00	ug/L
108-90-7	Chlorobenzene	0.50	U	0.13	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	0.50	U	0.16	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	1.00	U	0.31	1.00	2.00	ug/L
95-47-6	o-Xylene	0.50	U	0.14	0.50	1.00	ug/L
100-42-5	Styrene	0.50	U	0.16	0.50	1.00	ug/L
75-25-2	Bromoform	0.50	U	0.21	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	0.50	U	0.13	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.27	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.50	U	0.24	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.50	U	0.27	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.50	U	0.19	0.50	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	42.7		81 - 118		85%	SPK: 50
1868-53-7	Dibromofluoromethane	48.2		80 - 119		96%	SPK: 50
2037-26-5	Toluene-d8	51.5		89 - 112		103%	SPK: 50
460-00-4	4-Bromofluorobenzene	50.0		85 - 114		100%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	117000	5.55				
540-36-3	1,4-Difluorobenzene	205000	6.757				
3114-55-4	Chlorobenzene-d5	179000	10.055				
3855-82-1	1,4-Dichlorobenzene-d4	74100	12.018				
TENTATIVE IDENTIFIED COMPOUNDS							
75-43-4	Dichlorofluoromethane	N.D					

Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:	12/13/24	
Project:	CTO WE13		Date Received:	12/17/24	
Client Sample ID:	BP-VPB-190A-GW-678-680		SDG No.:	P5314	
Lab Sample ID:	P5314-02		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
VX044447.D	1		12/20/24 13:13	VX122024

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:	12/13/24	
Project:	CTO WE13			Date Received:	12/17/24	
Client Sample ID:	BP-VPB-190A-GW-678-680DL			SDG No.:	P5314	
Lab Sample ID:	P5314-02DL			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
VX044449.D	5		12/20/24 13:59	VX122024

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
74-87-3	Chloromethane	2.50	UD	1.80	2.50	5.00	ug/L
75-01-4	Vinyl Chloride	3.80	UD	1.70	3.80	5.00	ug/L
74-83-9	Bromomethane	18.8	UD	6.80	18.8	25.0	ug/L
75-00-3	Chloroethane	3.80	UD	2.80	3.80	5.00	ug/L
75-69-4	Trichlorofluoromethane	2.50	UD	1.70	2.50	5.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	5.70	D	1.30	2.50	5.00	ug/L
75-35-4	1,1-Dichloroethene	1.90	JD	1.30	3.80	5.00	ug/L
67-64-1	Acetone	8.10	JD	7.00	18.8	25.0	ug/L
75-15-0	Carbon Disulfide	3.80	UD	1.60	3.80	5.00	ug/L
1634-04-4	Methyl tert-butyl Ether	2.50	UD	0.80	2.50	5.00	ug/L
75-09-2	Methylene Chloride	2.50	UD	1.60	2.50	5.00	ug/L
156-60-5	trans-1,2-Dichloroethene	2.50	UD	1.30	2.50	5.00	ug/L
75-34-3	1,1-Dichloroethane	2.50	UD	1.20	2.50	5.00	ug/L
78-93-3	2-Butanone	12.5	UD	6.50	12.5	25.0	ug/L
56-23-5	Carbon Tetrachloride	2.50	UD	1.30	2.50	5.00	ug/L
156-59-2	cis-1,2-Dichloroethene	1.90	JD	1.30	3.80	5.00	ug/L
67-66-3	Chloroform	2.50	UD	1.30	2.50	5.00	ug/L
71-55-6	1,1,1-Trichloroethane	2.50	UD	0.95	2.50	5.00	ug/L
108-87-2	Methylcyclohexane	2.50	UD	0.95	2.50	5.00	ug/L
71-43-2	Benzene	2.50	UD	0.80	2.50	5.00	ug/L
107-06-2	1,2-Dichloroethane	2.50	UD	1.20	2.50	5.00	ug/L
79-01-6	Trichloroethene	300	D	1.60	3.80	5.00	ug/L
78-87-5	1,2-Dichloropropane	2.50	UD	0.95	2.50	5.00	ug/L
75-27-4	Bromodichloromethane	2.50	UD	1.20	2.50	5.00	ug/L
108-10-1	4-Methyl-2-Pentanone	12.5	UD	3.80	12.5	25.0	ug/L
108-88-3	Toluene	2.50	UD	0.90	2.50	5.00	ug/L
10061-02-6	t-1,3-Dichloropropene	2.50	UD	1.10	2.50	5.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	2.50	UD	0.90	2.50	5.00	ug/L
79-00-5	1,1,2-Trichloroethane	1.80	JD	1.10	2.50	5.00	ug/L
591-78-6	2-Hexanone	12.5	UD	5.70	12.5	25.0	ug/L

Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:	12/13/24	
Project:	CTO WE13		Date Received:	12/17/24	
Client Sample ID:	BP-VPB-190A-GW-678-680DL		SDG No.:	P5314	
Lab Sample ID:	P5314-02DL		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
VX044449.D	5		12/20/24 13:59	VX122024

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
124-48-1	Dibromochloromethane	2.50	UD	0.90	2.50	5.00	ug/L
127-18-4	Tetrachloroethene	2.50	UD	1.30	2.50	5.00	ug/L
108-90-7	Chlorobenzene	2.50	UD	0.65	2.50	5.00	ug/L
100-41-4	Ethyl Benzene	2.50	UD	0.80	2.50	5.00	ug/L
179601-23-1	m/p-Xylenes	5.00	UD	1.60	5.00	10.0	ug/L
95-47-6	o-Xylene	2.50	UD	0.70	2.50	5.00	ug/L
100-42-5	Styrene	2.50	UD	0.80	2.50	5.00	ug/L
75-25-2	Bromoform	2.50	UD	1.10	2.50	5.00	ug/L
98-82-8	Isopropylbenzene	2.50	UD	0.65	2.50	5.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	2.50	UD	1.40	2.50	5.00	ug/L
541-73-1	1,3-Dichlorobenzene	2.50	UD	1.20	2.50	5.00	ug/L
106-46-7	1,4-Dichlorobenzene	2.50	UD	1.40	2.50	5.00	ug/L
95-50-1	1,2-Dichlorobenzene	2.50	UD	0.95	2.50	5.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	43.2		81 - 118		86%	SPK: 50
1868-53-7	Dibromofluoromethane	47.8		80 - 119		96%	SPK: 50
2037-26-5	Toluene-d8	50.9		89 - 112		102%	SPK: 50
460-00-4	4-Bromofluorobenzene	47.0		85 - 114		94%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	114000	5.544				
540-36-3	1,4-Difluorobenzene	203000	6.757				
3114-55-4	Chlorobenzene-d5	178000	10.055				
3855-82-1	1,4-Dichlorobenzene-d4	76200	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:	12/13/24	
Project:	CTO WE13			Date Received:	12/17/24	
Client Sample ID:	BP-VPB-190A-GW-698-700			SDG No.:	P5314	
Lab Sample ID:	P5314-03			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
VX044446.D	1		12/20/24 12:49	VX122024

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
74-87-3	Chloromethane	0.50	U	0.35	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	0.75	U	0.34	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	0.56	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.50	U	0.34	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	0.26	0.75	1.00	ug/L
67-64-1	Acetone	10.9		1.40	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	0.75	U	0.32	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	0.32	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.50	U	0.25	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	1.70	J	1.30	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	0.25	0.75	1.00	ug/L
67-66-3	Chloroform	0.50	U	0.26	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.50	U	0.19	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	0.50	U	0.19	0.50	1.00	ug/L
71-43-2	Benzene	0.50	U	0.16	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.50	U	0.24	0.50	1.00	ug/L
79-01-6	Trichloroethene	4.40		0.32	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.50	U	0.19	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	0.50	U	0.24	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	2.50	U	0.75	2.50	5.00	ug/L
108-88-3	Toluene	0.50	U	0.18	0.50	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	0.50	U	0.21	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.18	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	1.10	2.50	5.00	ug/L

Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:	12/13/24	
Project:	CTO WE13		Date Received:	12/17/24	
Client Sample ID:	BP-VPB-190A-GW-698-700		SDG No.:	P5314	
Lab Sample ID:	P5314-03		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
VX044446.D	1		12/20/24 12:49	VX122024

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	0.25	0.50	1.00	ug/L
108-90-7	Chlorobenzene	0.50	U	0.13	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	0.50	U	0.16	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	1.00	U	0.31	1.00	2.00	ug/L
95-47-6	o-Xylene	0.50	U	0.14	0.50	1.00	ug/L
100-42-5	Styrene	0.50	U	0.16	0.50	1.00	ug/L
75-25-2	Bromoform	0.50	U	0.21	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	0.50	U	0.13	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.27	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.50	U	0.24	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.50	U	0.27	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.50	U	0.19	0.50	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	42.3		81 - 118		85%	SPK: 50
1868-53-7	Dibromofluoromethane	47.1		80 - 119		94%	SPK: 50
2037-26-5	Toluene-d8	51.1		89 - 112		102%	SPK: 50
460-00-4	4-Bromofluorobenzene	46.3		85 - 114		93%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	122000	5.55				
540-36-3	1,4-Difluorobenzene	211000	6.757				
3114-55-4	Chlorobenzene-d5	182000	10.055				
3855-82-1	1,4-Dichlorobenzene-d4	69200	12.024				
TENTATIVE IDENTIFIED COMPOUNDS							
75-43-4	Dichlorofluoromethane	N.D					

Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:	12/13/24	
Project:	CTO WE13		Date Received:	12/17/24	
Client Sample ID:	BP-VPB-190A-GW-698-700		SDG No.:	P5314	
Lab Sample ID:	P5314-03		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
VX044446.D	1		12/20/24 12:49	VX122024

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:	12/17/24	
Project:	CTO WE13			Date Received:	12/17/24	
Client Sample ID:	VPB190A-HYD-20241217			SDG No.:	P5314	
Lab Sample ID:	P5314-04			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
VX044454.D	1		12/20/24 15:56	VX122024

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
74-87-3	Chloromethane	0.50	U	0.35	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	0.75	U	0.34	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	0.56	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.50	U	0.34	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	0.26	0.75	1.00	ug/L
67-64-1	Acetone	2.70	J	1.40	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	0.75	U	0.32	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	0.32	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.50	U	0.25	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	1.30	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	0.25	0.75	1.00	ug/L
67-66-3	Chloroform	0.50	U	0.26	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.50	U	0.19	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	0.50	U	0.19	0.50	1.00	ug/L
71-43-2	Benzene	0.50	U	0.16	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.50	U	0.24	0.50	1.00	ug/L
79-01-6	Trichloroethene	0.75	U	0.32	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.50	U	0.19	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	0.50	U	0.24	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	2.50	U	0.75	2.50	5.00	ug/L
108-88-3	Toluene	0.50	U	0.18	0.50	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	0.50	U	0.21	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.18	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	1.10	2.50	5.00	ug/L

Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:	12/17/24	
Project:	CTO WE13		Date Received:	12/17/24	
Client Sample ID:	VPB190A-HYD-20241217		SDG No.:	P5314	
Lab Sample ID:	P5314-04		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
VX044454.D	1		12/20/24 15:56	VX122024

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	0.25	0.50	1.00	ug/L
108-90-7	Chlorobenzene	0.50	U	0.13	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	0.50	U	0.16	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	1.00	U	0.31	1.00	2.00	ug/L
95-47-6	o-Xylene	0.50	U	0.14	0.50	1.00	ug/L
100-42-5	Styrene	0.50	U	0.16	0.50	1.00	ug/L
75-25-2	Bromoform	0.50	U	0.21	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	0.50	U	0.13	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.27	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.50	U	0.24	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.50	U	0.27	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.50	U	0.19	0.50	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	42.8		81 - 118		86%	SPK: 50
1868-53-7	Dibromofluoromethane	46.8		80 - 119		94%	SPK: 50
2037-26-5	Toluene-d8	50.6		89 - 112		101%	SPK: 50
460-00-4	4-Bromofluorobenzene	45.4		85 - 114		91%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	120000	5.55				
540-36-3	1,4-Difluorobenzene	212000	6.757				
3114-55-4	Chlorobenzene-d5	184000	10.049				
3855-82-1	1,4-Dichlorobenzene-d4	74200	12.024				
TENTATIVE IDENTIFIED COMPOUNDS							
75-43-4	Dichlorofluoromethane	N.D					

Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:	12/17/24	
Project:	CTO WE13		Date Received:	12/17/24	
Client Sample ID:	VPB190A-HYD-20241217		SDG No.:	P5314	
Lab Sample ID:	P5314-04		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
VX044454.D	1		12/20/24 15:56	VX122024

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.: **P5314**

Client: **Tetra Tech NUS, Inc.**

Analytical Method: **SW8260-Low**

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits	
						Low	High
P5314-01	BP-VPB-190A-TB-20241213	1,2-Dichloroethane-d4	50	43.0	86	81	118
		Dibromofluoromethane	50	46.2	92	80	119
		Toluene-d8	50	50.5	101	89	112
		4-Bromofluorobenzene	50	47.1	94	85	114
P5314-02	BP-VPB-190A-GW-678-680	1,2-Dichloroethane-d4	50	42.7	85	81	118
		Dibromofluoromethane	50	48.2	96	80	119
		Toluene-d8	50	51.5	103	89	112
		4-Bromofluorobenzene	50	50.0	100	85	114
P5314-02DL	BP-VPB-190A-GW-678-680DL	1,2-Dichloroethane-d4	50	43.2	86	81	118
		Dibromofluoromethane	50	47.8	96	80	119
		Toluene-d8	50	50.9	102	89	112
		4-Bromofluorobenzene	50	47.0	94	85	114
P5314-03	BP-VPB-190A-GW-698-700	1,2-Dichloroethane-d4	50	42.3	85	81	118
		Dibromofluoromethane	50	47.1	94	80	119
		Toluene-d8	50	51.1	102	89	112
		4-Bromofluorobenzene	50	46.3	93	85	114
P5314-04	VPB190A-HYD-20241217	1,2-Dichloroethane-d4	50	42.8	86	81	118
		Dibromofluoromethane	50	46.8	94	80	119
		Toluene-d8	50	50.6	101	89	112
		4-Bromofluorobenzene	50	45.5	91	85	114
VX1220WBL01	VX1220WBL01	1,2-Dichloroethane-d4	50	44.1	88	81	118
		Dibromofluoromethane	50	47.5	95	80	119
		Toluene-d8	50	52.0	104	89	112
		4-Bromofluorobenzene	50	48.4	97	85	114
VX1220WBS01	VX1220WBS01	1,2-Dichloroethane-d4	50	42.7	85	81	118
		Dibromofluoromethane	50	48.5	97	80	119
		Toluene-d8	50	48.7	97	89	112
		4-Bromofluorobenzene	50	46.4	93	85	114
VX1220WBSD0	VX1220WBSD01	1,2-Dichloroethane-d4	50	43.6	87	81	118
		Dibromofluoromethane	50	49.3	99	80	119
		Toluene-d8	50	49.9	100	89	112
		4-Bromofluorobenzene	50	48.6	97	85	114

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P5314

Client: Tetra Tech NUS, Inc.

Analytical Method: SW8260-Low

Datafile : VX044441.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VX1220WBS01	Chloromethane	20	18.7	ug/L	94			50	139	
	Vinyl chloride	20	17.9	ug/L	90			58	137	
	Bromomethane	20	18.8	ug/L	94			53	141	
	Chloroethane	20	19.8	ug/L	99			60	138	
	Trichlorofluoromethane	20	15.3	ug/L	77			65	141	
	1,1,2-Trichlorotrifluoroethane	20	18.5	ug/L	93			70	136	
	1,1-Dichloroethene	20	18.9	ug/L	95			71	131	
	Acetone	100	75.7	ug/L	76			39	160	
	Carbon disulfide	20	16.4	ug/L	82			64	133	
	Methyl tert-butyl Ether	20	17.6	ug/L	88			71	124	
	Methylene Chloride	20	19.1	ug/L	96			74	124	
	trans-1,2-Dichloroethene	20	18.7	ug/L	94			75	124	
	1,1-Dichloroethane	20	18.9	ug/L	95			77	125	
	2-Butanone	100	83.3	ug/L	83			56	143	
	Carbon Tetrachloride	20	18.9	ug/L	95			72	136	
	cis-1,2-Dichloroethene	20	18.0	ug/L	90			78	123	
	Chloroform	20	17.7	ug/L	89			79	124	
	1,1,1-Trichloroethane	20	17.5	ug/L	88			74	131	
	Methylcyclohexane	20	19.3	ug/L	97			72	132	
	Benzene	20	20.4	ug/L	102			79	120	
	1,2-Dichloroethane	20	19.2	ug/L	96			73	128	
	Trichloroethene	20	19.9	ug/L	100			79	123	
	1,2-Dichloropropane	20	19.1	ug/L	96			78	122	
	Bromodichloromethane	20	19.1	ug/L	96			79	125	
	4-Methyl-2-Pentanone	100	92.4	ug/L	92			67	130	
	Toluene	20	19.5	ug/L	98			80	121	
	t-1,3-Dichloropropene	20	17.9	ug/L	90			73	127	
	cis-1,3-Dichloropropene	20	19.2	ug/L	96			75	124	
	1,1,2-Trichloroethane	20	20.8	ug/L	104			80	119	
	2-Hexanone	100	90.4	ug/L	90			57	139	
	Dibromochloromethane	20	18.8	ug/L	94			74	126	
	Tetrachloroethene	20	20.8	ug/L	104			74	129	
	Chlorobenzene	20	19.9	ug/L	100			82	118	
	Ethyl Benzene	20	19.2	ug/L	96			79	121	
	m/p-Xylenes	40	39.8	ug/L	100			80	121	
	o-Xylene	20	19.8	ug/L	99			78	122	
	Styrene	20	19.8	ug/L	99			78	123	
	Bromoform	20	19.3	ug/L	97			66	130	
	Isopropylbenzene	20	19.9	ug/L	100			72	131	
	1,1,2,2-Tetrachloroethane	20	19.6	ug/L	98			71	121	
	1,3-Dichlorobenzene	20	20.1	ug/L	101			80	119	
	1,4-Dichlorobenzene	20	20.0	ug/L	100			79	118	
	1,2-Dichlorobenzene	20	19.8	ug/L	99			80	119	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P5314

Client: Tetra Tech NUS, Inc.

Analytical Method: SW8260-Low

Datafile : VX044442.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VX1220WBSD01	Chloromethane	20	18.7	ug/L	94	0		50	139	20
	Vinyl chloride	20	18.1	ug/L	91	1		58	137	20
	Bromomethane	20	18.1	ug/L	91	3		53	141	20
	Chloroethane	20	20.3	ug/L	102	3		60	138	20
	Trichlorofluoromethane	20	15.9	ug/L	79	3		65	141	20
	1,1,2-Trichlorotrifluoroethane	20	18.3	ug/L	92	1		70	136	20
	1,1-Dichloroethene	20	18.6	ug/L	93	2		71	131	20
	Acetone	100	79.1	ug/L	79	4		39	160	20
	Carbon disulfide	20	16.8	ug/L	84	2		64	133	20
	Methyl tert-butyl Ether	20	18.0	ug/L	90	2		71	124	20
	Methylene Chloride	20	19.0	ug/L	95	1		74	124	20
	trans-1,2-Dichloroethene	20	17.9	ug/L	90	4		75	124	20
	1,1-Dichloroethane	20	18.4	ug/L	92	3		77	125	20
	2-Butanone	100	88.5	ug/L	89	7		56	143	20
	Carbon Tetrachloride	20	18.9	ug/L	95	0		72	136	20
	cis-1,2-Dichloroethene	20	18.4	ug/L	92	2		78	123	20
	Chloroform	20	18.3	ug/L	92	3		79	124	20
	1,1,1-Trichloroethane	20	17.5	ug/L	88	0		74	131	20
	Methylcyclohexane	20	19.6	ug/L	98	1		72	132	20
	Benzene	20	20.8	ug/L	104	2		79	120	20
	1,2-Dichloroethane	20	19.8	ug/L	99	3		73	128	20
	Trichloroethene	20	20.3	ug/L	102	2		79	123	20
	1,2-Dichloropropane	20	20.3	ug/L	102	6		78	122	20
	Bromodichloromethane	20	19.7	ug/L	99	3		79	125	20
	4-Methyl-2-Pentanone	100	99.0	ug/L	99	7		67	130	20
	Toluene	20	19.9	ug/L	100	2		80	121	20
	t-1,3-Dichloropropene	20	19.1	ug/L	96	6		73	127	20
	cis-1,3-Dichloropropene	20	20.2	ug/L	101	5		75	124	20
	1,1,2-Trichloroethane	20	21.6	ug/L	108	4		80	119	20
	2-Hexanone	100	97.2	ug/L	97	7		57	139	20
	Dibromochloromethane	20	19.3	ug/L	97	3		74	126	20
	Tetrachloroethene	20	20.5	ug/L	103	1		74	129	20
	Chlorobenzene	20	20.2	ug/L	101	1		82	118	20
	Ethyl Benzene	20	19.5	ug/L	98	2		79	121	20
	m/p-Xylenes	40	41.2	ug/L	103	3		80	121	20
	o-Xylene	20	20.2	ug/L	101	2		78	122	20
	Styrene	20	20.4	ug/L	102	3		78	123	20
	Bromoform	20	20.1	ug/L	101	4		66	130	20
	Isopropylbenzene	20	18.8	ug/L	94	6		72	131	20
	1,1,2,2-Tetrachloroethane	20	19.7	ug/L	99	1		71	121	20
	1,3-Dichlorobenzene	20	20.2	ug/L	101	0		80	119	20
	1,4-Dichlorobenzene	20	19.7	ug/L	99	1		79	118	20
	1,2-Dichlorobenzene	20	20.0	ug/L	100	1		80	119	20

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VX1220WBL01

Lab Name: CHEMTECH

Contract: TETR06

Lab Code: CHEM Case No.: P5314

SAS No.: P5314 SDG NO.: P5314

Lab File ID: VX044440.D

Lab Sample ID: VX1220WBL01

Date Analyzed: 12/20/2024

Time Analyzed: 10:23

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
VX1220WBS01	VX1220WBS01	VX044441.D	12/20/2024
VX1220WBSD01	VX1220WBSD01	VX044442.D	12/20/2024
BP-VPB-190A-TB-20241213	P5314-01	VX044445.D	12/20/2024
BP-VPB-190A-GW-698-700	P5314-03	VX044446.D	12/20/2024
BP-VPB-190A-GW-678-680	P5314-02	VX044447.D	12/20/2024
BP-VPB-190A-GW-678-680DL	P5314-02DL	VX044449.D	12/20/2024
VPB190A-HYD-20241217	P5314-04	VX044454.D	12/20/2024

COMMENTS: _____

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: TETR06
Lab Code: CHEM Case No.: P5314 SAS No.: P5314 SDG NO.: P5314
Lab File ID: VX044218.D BFB Injection Date: 12/11/2024
Instrument ID: MSVOA_X BFB Injection Time: 10:13
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	21.7
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	6.7
173	Less than 2.0% of mass 174	0.9 (1.2) 1
174	50.0 - 100.0% of mass 95	71.1
175	5.0 - 9.0% of mass 174	5.2 (7.3) 1
176	95.0 - 101.0% of mass 174	68.7 (96.6) 1
177	5.0 - 9.0% of mass 176	4.6 (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
VSTDIC001	VSTDIC001	VX044219.D	12/11/2024	10:41
VSTDIC005	VSTDIC005	VX044220.D	12/11/2024	11:27
VSTDIC020	VSTDIC020	VX044221.D	12/11/2024	11:50
VSTDIC050	VSTDIC050	VX044222.D	12/11/2024	12:14
VSTDIC100	VSTDIC100	VX044223.D	12/11/2024	12:37
VSTDIC150	VSTDIC150	VX044224.D	12/11/2024	13:00

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: TETR06
Lab Code: CHEM Case No.: P5314 SAS No.: P5314 SDG NO.: P5314
Lab File ID: VX044437.D BFB Injection Date: 12/20/2024
Instrument ID: MSVOA_X BFB Injection Time: 08:49
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	20.4
75	30.0 - 60.0% of mass 95	52.1
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	7.8
173	Less than 2.0% of mass 174	0.9 (1.2) 1
174	50.0 - 100.0% of mass 95	77.7
175	5.0 - 9.0% of mass 174	5.6 (7.2) 1
176	95.0 - 101.0% of mass 174	76.6 (98.5) 1
177	5.0 - 9.0% of mass 176	4.7 (6.1) 2

1-Value is % mass 174

2-Value is % mass 176

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC050	VSTDCCC050	VX044438.D	12/20/2024	09:16
VX1220WBL01	VX1220WBL01	VX044440.D	12/20/2024	10:23
VX1220WBS01	VX1220WBS01	VX044441.D	12/20/2024	10:46
VX1220WBSD01	VX1220WBSD01	VX044442.D	12/20/2024	11:16
BP-VPB-190A-TB-20241213	P5314-01	VX044445.D	12/20/2024	12:26
BP-VPB-190A-GW-698-700	P5314-03	VX044446.D	12/20/2024	12:49
BP-VPB-190A-GW-678-680	P5314-02	VX044447.D	12/20/2024	13:13
BP-VPB-190A-GW-678-680DL	P5314-02DL	VX044449.D	12/20/2024	13:59
VPB190A-HYD-20241217	P5314-04	VX044454.D	12/20/2024	15:56
VSTDCCC050EC	VSTDCCC050	VX044464.D	12/20/2024	19:49

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: TETR06
Lab Code: CHEM Case No.: P5314 SAS No.: P5314 SDG NO.: P5314
Lab File ID: VX044438.D Date Analyzed: 12/20/2024
Instrument ID: MSVOA_X Time Analyzed: 09:16
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	136445	5.54	226018	6.76	197543	10.06
UPPER LIMIT	272890	6.044	452036	7.257	395086	10.555
LOWER LIMIT	68222.5	5.044	113009	6.257	98771.5	9.555
EPA SAMPLE NO.						
BP-VPB-190A-TB-20241213	117644	5.55	208582	6.76	178072	10.06
BP-VPB-190A-GW-678-680	116922	5.55	205157	6.76	179312	10.06
BP-VPB-190A-GW-678-680DL	113918	5.54	202874	6.76	177737	10.06
BP-VPB-190A-GW-698-700	121735	5.55	211457	6.76	182367	10.06
VPB190A-HYD-20241217	120419	5.55	211996	6.76	183684	10.05
VX1220WBL01	120864	5.55	218417	6.76	193836	10.05
VX1220WBS01	146515	5.55	249173	6.76	212384	10.05
VX1220WBSD01	138719	5.54	231232	6.76	202087	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.: P5314 SAS No.: P5314 SDG NO.: P5314
Lab File ID: VX044438.D Date Analyzed: 12/20/2024
Instrument ID: MSVOA_X Time Analyzed: 09:16
GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: (Y/N) N

	IS4 AREA #	RT #				
12 HOUR STD	95339	12.018				
UPPER LIMIT	190678	12.518				
LOWER LIMIT	47669.5	11.518				
EPA SAMPLE NO.						
BP-VPB-190A-TB-20241213	71905	12.02				
BP-VPB-190A-GW-678-680	74123	12.02				
BP-VPB-190A-GW-678-680DL	76153	12.02				
BP-VPB-190A-GW-698-700	69187	12.02				
VPB190A-HYD-20241217	74241	12.02				
VX1220WBL01	81005	12.02				
VX1220WBS01	96885	12.02				
VX1220WBSD01	96082	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:	CTO WE13		Date Received:	
Client Sample ID:	VX1220WBL01		SDG No.:	P5314
Lab Sample ID:	VX1220WBL01		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
VX044440.D	1		12/20/24 10:23	VX122024

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
74-87-3	Chloromethane	0.50	U	0.35	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	0.75	U	0.34	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	0.56	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.50	U	0.34	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	0.26	0.75	1.00	ug/L
67-64-1	Acetone	3.80	U	1.40	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	0.75	U	0.32	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	0.32	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.50	U	0.25	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	1.30	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	0.25	0.75	1.00	ug/L
67-66-3	Chloroform	0.50	U	0.26	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.50	U	0.19	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	0.50	U	0.19	0.50	1.00	ug/L
71-43-2	Benzene	0.50	U	0.16	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.50	U	0.24	0.50	1.00	ug/L
79-01-6	Trichloroethene	0.75	U	0.32	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.50	U	0.19	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	0.50	U	0.24	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	2.50	U	0.75	2.50	5.00	ug/L
108-88-3	Toluene	0.50	U	0.18	0.50	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	0.50	U	0.21	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.18	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	1.10	2.50	5.00	ug/L

Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:	
Project:	CTO WE13		Date Received:	
Client Sample ID:	VX1220WBL01		SDG No.:	P5314
Lab Sample ID:	VX1220WBL01		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
VX044440.D	1		12/20/24 10:23	VX122024

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	0.25	0.50	1.00	ug/L
108-90-7	Chlorobenzene	0.50	U	0.13	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	0.50	U	0.16	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	1.00	U	0.31	1.00	2.00	ug/L
95-47-6	o-Xylene	0.50	U	0.14	0.50	1.00	ug/L
100-42-5	Styrene	0.50	U	0.16	0.50	1.00	ug/L
75-25-2	Bromoform	0.50	U	0.21	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	0.50	U	0.13	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.27	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.50	U	0.24	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.50	U	0.27	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.50	U	0.19	0.50	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	44.1		81 - 118		88%	SPK: 50
1868-53-7	Dibromofluoromethane	47.5		80 - 119		95%	SPK: 50
2037-26-5	Toluene-d8	52.1		89 - 112		104%	SPK: 50
460-00-4	4-Bromofluorobenzene	48.4		85 - 114		97%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	121000	5.55				
540-36-3	1,4-Difluorobenzene	218000	6.757				
3114-55-4	Chlorobenzene-d5	194000	10.049				
3855-82-1	1,4-Dichlorobenzene-d4	81000	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:	CTO WE13		Date Received:	
Client Sample ID:	VX1220WBS01		SDG No.:	P5314
Lab Sample ID:	VX1220WBS01		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
VX044441.D	1		12/20/24 10:46	VX122024

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
74-87-3	Chloromethane	18.7		0.35	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	17.9		0.34	0.75	1.00	ug/L
74-83-9	Bromomethane	18.8		1.40	3.80	5.00	ug/L
75-00-3	Chloroethane	19.8		0.56	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	15.3		0.34	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	18.9		0.26	0.75	1.00	ug/L
67-64-1	Acetone	75.7		1.40	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	16.4		0.32	0.75	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	17.6		0.16	0.50	1.00	ug/L
75-09-2	Methylene Chloride	19.1		0.32	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	18.7		0.25	0.50	1.00	ug/L
75-34-3	1,1-Dichloroethane	18.9		0.23	0.50	1.00	ug/L
78-93-3	2-Butanone	83.3		1.30	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	18.0		0.25	0.75	1.00	ug/L
67-66-3	Chloroform	17.7		0.26	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	17.5		0.19	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	19.3		0.19	0.50	1.00	ug/L
71-43-2	Benzene	20.4		0.16	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	19.2		0.24	0.50	1.00	ug/L
79-01-6	Trichloroethene	19.9		0.32	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	19.1		0.19	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	19.1		0.24	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	92.4		0.75	2.50	5.00	ug/L
108-88-3	Toluene	19.5		0.18	0.50	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	17.9		0.21	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	19.2		0.18	0.50	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	20.8		0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	90.4		1.10	2.50	5.00	ug/L

Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:	
Project:	CTO WE13		Date Received:	
Client Sample ID:	VX1220WBS01		SDG No.:	P5314
Lab Sample ID:	VX1220WBS01		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
VX044441.D	1		12/20/24 10:46	VX122024

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
124-48-1	Dibromochloromethane	18.8		0.18	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	20.8		0.25	0.50	1.00	ug/L
108-90-7	Chlorobenzene	19.9		0.13	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	19.2		0.16	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	39.8		0.31	1.00	2.00	ug/L
95-47-6	o-Xylene	19.8		0.14	0.50	1.00	ug/L
100-42-5	Styrene	19.8		0.16	0.50	1.00	ug/L
75-25-2	Bromoform	19.3		0.21	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	19.9		0.13	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	19.6		0.27	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	20.1		0.24	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	20.0		0.27	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	19.8		0.19	0.50	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	42.7		81 - 118		85%	SPK: 50
1868-53-7	Dibromofluoromethane	48.5		80 - 119		97%	SPK: 50
2037-26-5	Toluene-d8	48.7		89 - 112		97%	SPK: 50
460-00-4	4-Bromofluorobenzene	46.4		85 - 114		93%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	147000	5.55				
540-36-3	1,4-Difluorobenzene	249000	6.757				
3114-55-4	Chlorobenzene-d5	212000	10.049				
3855-82-1	1,4-Dichlorobenzene-d4	96900	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:	CTO WE13		Date Received:	
Client Sample ID:	VX1220WBSD01		SDG No.:	P5314
Lab Sample ID:	VX1220WBSD01		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
VX044442.D	1		12/20/24 11:16	VX122024

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
74-87-3	Chloromethane	18.7		0.35	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	18.1		0.34	0.75	1.00	ug/L
74-83-9	Bromomethane	18.1		1.40	3.80	5.00	ug/L
75-00-3	Chloroethane	20.3		0.56	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	15.9		0.34	0.50	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	18.3		0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	18.6		0.26	0.75	1.00	ug/L
67-64-1	Acetone	79.1		1.40	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	16.8		0.32	0.75	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	18.0		0.16	0.50	1.00	ug/L
75-09-2	Methylene Chloride	19.0		0.32	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	17.9		0.25	0.50	1.00	ug/L
75-34-3	1,1-Dichloroethane	18.4		0.23	0.50	1.00	ug/L
78-93-3	2-Butanone	88.5		1.30	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	18.4		0.25	0.75	1.00	ug/L
67-66-3	Chloroform	18.3		0.26	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	17.5		0.19	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	19.6		0.19	0.50	1.00	ug/L
71-43-2	Benzene	20.8		0.16	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	19.8		0.24	0.50	1.00	ug/L
79-01-6	Trichloroethene	20.3		0.32	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	20.3		0.19	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	19.7		0.24	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	99.0		0.75	2.50	5.00	ug/L
108-88-3	Toluene	19.9		0.18	0.50	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	19.1		0.21	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	20.2		0.18	0.50	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	21.6		0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	97.2		1.10	2.50	5.00	ug/L

Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:	
Project:	CTO WE13		Date Received:	
Client Sample ID:	VX1220WBSD01		SDG No.:	P5314
Lab Sample ID:	VX1220WBSD01		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
VX044442.D	1		12/20/24 11:16	VX122024

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	20.5		0.25	0.50	1.00	ug/L
108-90-7	Chlorobenzene	20.2		0.13	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	19.5		0.16	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	41.2		0.31	1.00	2.00	ug/L
95-47-6	o-Xylene	20.2		0.14	0.50	1.00	ug/L
100-42-5	Styrene	20.4		0.16	0.50	1.00	ug/L
75-25-2	Bromoform	20.1		0.21	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	18.8		0.13	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	19.7		0.27	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	20.2		0.24	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	19.7		0.27	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	20.0		0.19	0.50	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	43.6		81 - 118		87%	SPK: 50
1868-53-7	Dibromofluoromethane	49.3		80 - 119		99%	SPK: 50
2037-26-5	Toluene-d8	49.9		89 - 112		100%	SPK: 50
460-00-4	4-Bromofluorobenzene	48.6		85 - 114		97%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	139000	5.538				
540-36-3	1,4-Difluorobenzene	231000	6.757				
3114-55-4	Chlorobenzene-d5	202000	10.049				
3855-82-1	1,4-Dichlorobenzene-d4	96100	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>P5314</u>
Instrument ID:	<u>MSVOA_X</u>	SAS No.:	<u>P5314</u>
Heated Purge: (Y/N)	<u>N</u>	SDG No.:	<u>P5314</u>
GC Column:	<u>DB-624UI</u>	Calibration Date(s):	<u>12/11/2024</u>
ID:	<u>0.18 (mm)</u>	Calibration Time(s):	<u>10:41</u>
			<u>13:00</u>

LAB FILE ID:	RRF001 = VX044219.D	RRF005 = VX044220.D	RRF020 = VX044221.D	RRF050 = VX044222.D	RRF100 = VX044223.D	RRF150 = VX044224.D		
COMPOUND	RRF001	RRF005	RRF020	RRF050	RRF100	RRF150	RRF	% RSD
Chloromethane	0.743	0.747	0.735	0.756	0.715	0.740	0.739	1.8
Vinyl Chloride	0.805	0.790	0.782	0.786	0.722	0.737	0.770	4.3
Bromomethane		0.590	0.513	0.551	0.529	0.548	0.546	5.3
Chloroethane	0.464	0.520	0.515	0.532	0.422	0.426	0.480	10.2
Trichlorofluoromethane	1.582	1.519	1.514	1.541	1.478	1.414	1.508	3.8
1,1,2-Trichlorotrifluoroethane	0.633	0.628	0.592	0.615	0.573	0.620	0.610	3.8
1,1-Dichloroethene	0.512	0.560	0.544	0.596	0.554	0.596	0.560	5.7
Acetone	0.359	0.353	0.331	0.381	0.348	0.372	0.357	5
Carbon Disulfide	0.841	0.872	0.937	1.150	1.230	1.362	1.065	20
Methyl tert-butyl Ether	2.054	2.188	2.127	2.305	2.170	2.279	2.187	4.3
Methylene Chloride	0.679	0.678	0.666	0.689	0.648	0.668	0.671	2.1
trans-1,2-Dichloroethene	0.600	0.556	0.577	0.619	0.595	0.626	0.596	4.4
1,1-Dichloroethane	1.071	1.173	1.154	1.244	1.171	1.218	1.172	5.1
2-Butanone	0.449	0.491	0.510	0.548	0.509	0.541	0.508	7.1
Carbon Tetrachloride	0.484	0.443	0.432	0.501	0.502	0.529	0.482	7.8
cis-1,2-Dichloroethene	0.809	0.737	0.728	0.772	0.731	0.762	0.756	4.1
Chloroform	1.389	1.312	1.272	1.343	1.272	1.310	1.316	3.4
1,1,1-Trichloroethane	0.993	1.019	1.077	1.176	1.119	1.173	1.093	7.1
Methylcyclohexane	0.514	0.503	0.527	0.555	0.550	0.562	0.535	4.5
Benzene	1.353	1.353	1.332	1.410	1.353	1.353	1.359	1.9
1,2-Dichloroethane	0.554	0.557	0.545	0.584	0.556	0.564	0.560	2.4
Trichloroethene	0.356	0.325	0.325	0.349	0.337	0.342	0.339	3.8
1,2-Dichloropropane	0.368	0.345	0.330	0.357	0.341	0.342	0.347	3.8
Bromodichloromethane	0.380	0.411	0.436	0.508	0.518	0.538	0.465	13.9
4-Methyl-2-Pentanone	0.506	0.551	0.547	0.590	0.561	0.582	0.556	5.4
Toluene	0.908	0.830	0.816	0.877	0.841	0.849	0.853	4
t-1,3-Dichloropropene	0.338	0.357	0.439	0.514	0.526	0.558	0.455	20.3
cis-1,3-Dichloropropene	0.404	0.441	0.488	0.567	0.558	0.583	0.507	14.6
1,1,2-Trichloroethane	0.337	0.332	0.335	0.358	0.334	0.340	0.339	2.8
2-Hexanone	0.323	0.386	0.408	0.439	0.420	0.438	0.403	10.8

* 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.: P5314 SAS No.: P5314 SDG No.: P5314

Instrument ID: MSVOA_X Calibration Date(s): 12/11/2024 12/11/2024

Heated Purge: (Y/N) N Calibration Time(s): 10:41 13:00

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

LAB FILE ID:		RRF001 = VX044219.D		RRF005 = VX044220.D		RRF020 = VX044221.D		
		RRF050 = VX044222.D		RRF100 = VX044223.D		RRF150 = VX044224.D		
COMPOUND	RRF001	RRF005	RRF020	RRF050	RRF100	RRF150	RRF	% RSD
Dibromochloromethane	0.254	0.248	0.306	0.370	0.378	0.398	0.326	20.2
Tetrachloroethene	0.359	0.354	0.317	0.321	0.312	0.327	0.332	6
Chlorobenzene	1.130	1.068	1.039	1.088	1.036	1.067	1.071	3.3
Ethyl Benzene	1.853	1.806	1.816	1.927	1.831	1.875	1.851	2.4
m/p-Xylenes	0.653	0.660	0.665	0.707	0.683	0.707	0.679	3.5
o-Xylene	0.686	0.683	0.685	0.703	0.671	0.697	0.687	1.6
Styrene	1.007	1.019	1.099	1.162	1.148	1.177	1.102	6.7
Bromoform	0.137	0.173	0.194	0.247	0.269	0.297	0.219	28
Isopropylbenzene	3.665	3.976	3.920	3.912	3.747	3.747	3.828	3.2
1,1,2,2-Tetrachloroethane	1.410	1.350	1.332	1.336	1.256	1.293	1.329	3.9
1,3-Dichlorobenzene	1.519	1.634	1.640	1.683	1.625	1.628	1.621	3.3
1,4-Dichlorobenzene	1.811	1.640	1.632	1.672	1.621	1.623	1.667	4.4
1,2-Dichlorobenzene	1.745	1.666	1.668	1.726	1.654	1.643	1.684	2.5
1,2-Dichloroethane-d4		0.934	0.778	0.921	0.862	0.888	0.877	7.1
Dibromofluoromethane		0.353	0.298	0.367	0.360	0.354	0.346	8
Toluene-d8		1.148	1.010	1.251	1.229	1.203	1.168	8.3
4-Bromofluorobenzene		0.390	0.351	0.442	0.432	0.426	0.408	9.2

* 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: TETR06

Lab Code: CHEM Case No.: P5314 SAS No.: P5314 SDG No.: P5314

Instrument ID: MSVOA_X Calibration Date/Time: 12/20/2024 09:16

Lab File ID: VX044438.D Init. Calib. Date(s): 12/11/2024 12/11/2024

Heated Purge: (Y/N) N Init. Calib. Time(s): 10:41 13:00

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Chloromethane	0.739	0.782	0.1	5.82	20
Vinyl Chloride	0.770	0.798		3.64	20
Bromomethane	0.546	0.532		-2.56	20
Chloroethane	0.480	0.473		-1.46	20
Trichlorofluoromethane	1.508	1.482		-1.72	20
1,1,2-Trichlorotrifluoroethane	0.610	0.676		10.82	20
1,1-Dichloroethene	0.560	0.624		11.43	20
Acetone	0.357	0.291		-18.49	20
Carbon Disulfide	1.065	1.106		3.85	20
Methyl tert-butyl Ether	2.187	2.093		-4.3	20
Methylene Chloride	0.671	0.689		2.68	20
trans-1,2-Dichloroethene	0.596	0.625		4.87	20
1,1-Dichloroethane	1.172	1.203	0.1	2.64	20
2-Butanone	0.508	0.457		-10.04	20
Carbon Tetrachloride	0.482	0.533		10.58	20
cis-1,2-Dichloroethene	0.756	0.755		-0.13	20
Chloroform	1.316	1.265		-3.88	20
1,1,1-Trichloroethane	1.093	1.099		0.55	20
Methylcyclohexane	0.535	0.648		21.12	20
Benzene	1.359	1.529		12.51	20
1,2-Dichloroethane	0.560	0.586		4.64	20
Trichloroethene	0.339	0.388		14.45	20
1,2-Dichloropropane	0.347	0.369		6.34	20
Bromodichloromethane	0.465	0.525		12.9	20
4-Methyl-2-Pentanone	0.556	0.573		3.06	20
Toluene	0.853	0.924		8.32	20
t-1,3-Dichloropropene	0.455	0.517		13.63	20
cis-1,3-Dichloropropene	0.507	0.577		13.81	20
1,1,2-Trichloroethane	0.339	0.374		10.32	20
2-Hexanone	0.403	0.414		2.73	20
Dibromochloromethane	0.326	0.381		16.87	20
Tetrachloroethene	0.332	0.378		13.85	20
Chlorobenzene	1.071	1.187	0.3	10.83	20
Ethyl Benzene	1.851	2.034		9.89	20
m/p-Xylenes	0.679	0.780		14.88	20
o-Xylene	0.687	0.748		8.88	20
Styrene	1.102	1.275		15.7	20
Bromoform	0.219	0.266	0.1	21.46	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.: P5314 SAS No.: P5314 SDG No.: P5314

Instrument ID: MSVOA_X Calibration Date/Time: 12/20/2024 09:16

Lab File ID: VX044438.D Init. Calib. Date(s): 12/11/2024 12/11/2024

Heated Purge: (Y/N) N Init. Calib. Time(s): 10:41 13:00

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Isopropylbenzene	3.828	4.095		6.97	20
1,1,2,2-Tetrachloroethane	1.329	1.387	0.3	4.36	20
1,3-Dichlorobenzene	1.621	1.811		11.72	20
1,4-Dichlorobenzene	1.667	1.781		6.84	20
1,2-Dichlorobenzene	1.684	1.820		8.08	20
1,2-Dichloroethane-d4	0.877	0.836		-4.68	20
Dibromofluoromethane	0.346	0.392		13.3	20
Toluene-d8	1.168	1.318		12.84	20
4-Bromofluorobenzene	0.408	0.454		11.27	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.: P5314 SAS No.: P5314 SDG No.: P5314

Instrument ID: MSVOA_X Calibration Date/Time: 12/20/2024 19:49

Lab File ID: VX044464.D Init. Calib. Date(s): 12/11/2024 12/11/2024

Heated Purge: (Y/N) N Init. Calib. Time(s): 10:41 13:00

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Chloromethane	0.739	0.696	0.1	-5.82	50
Vinyl Chloride	0.770	0.730		-5.2	50
Bromomethane	0.546	0.498		-8.79	50
Chloroethane	0.480	0.507		5.63	50
Trichlorofluoromethane	1.508	1.202		-20.29	50
1,1,2-Trichlorotrifluoroethane	0.610	0.590		-3.28	50
1,1-Dichloroethene	0.560	0.560		0	50
Acetone	0.357	0.270		-24.37	50
Carbon Disulfide	1.065	1.089		2.25	50
Methyl tert-butyl Ether	2.187	1.972		-9.83	50
Methylene Chloride	0.671	0.636		-5.22	50
trans-1,2-Dichloroethene	0.596	0.578		-3.02	50
1,1-Dichloroethane	1.172	1.125	0.1	-4.01	50
2-Butanone	0.508	0.433		-14.76	50
Carbon Tetrachloride	0.482	0.495		2.7	50
cis-1,2-Dichloroethene	0.756	0.719		-4.89	50
Chloroform	1.316	1.190		-9.57	50
1,1,1-Trichloroethane	1.093	1.029		-5.86	50
Methylcyclohexane	0.535	0.550		2.8	50
Benzene	1.359	1.393		2.5	50
1,2-Dichloroethane	0.560	0.534		-4.64	50
Trichloroethene	0.339	0.360		6.2	50
1,2-Dichloropropane	0.347	0.345		-0.58	50
Bromodichloromethane	0.465	0.491		5.59	50
4-Methyl-2-Pentanone	0.556	0.524		-5.76	50
Toluene	0.853	0.855		0.23	50
t-1,3-Dichloropropene	0.455	0.482		5.93	50
cis-1,3-Dichloropropene	0.507	0.531		4.73	50
1,1,2-Trichloroethane	0.339	0.345		1.77	50
2-Hexanone	0.403	0.381		-5.46	50
Dibromochloromethane	0.326	0.361		10.74	50
Tetrachloroethene	0.332	0.343		3.31	50
Chlorobenzene	1.071	1.094	0.3	2.15	50
Ethyl Benzene	1.851	1.868		0.92	50
m/p-Xylenes	0.679	0.713		5.01	50
o-Xylene	0.687	0.708		3.06	50
Styrene	1.102	1.163		5.53	50
Bromoform	0.219	0.251	0.1	14.61	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.: P5314 SAS No.: P5314 SDG No.: P5314

Instrument ID: MSVOA_X Calibration Date/Time: 12/20/2024 19:49

Lab File ID: VX044464.D Init. Calib. Date(s): 12/11/2024 12/11/2024

Heated Purge: (Y/N) N Init. Calib. Time(s): 10:41 13:00

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Isopropylbenzene	3.828	3.829		0.03	50
1,1,2,2-Tetrachloroethane	1.329	1.278	0.3	-3.84	50
1,3-Dichlorobenzene	1.621	1.669		2.96	50
1,4-Dichlorobenzene	1.667	1.653		-0.84	50
1,2-Dichlorobenzene	1.684	1.709		1.49	50
1,2-Dichloroethane-d4	0.877	0.778		-11.29	50
Dibromofluoromethane	0.346	0.363		4.91	50
Toluene-d8	1.168	1.213		3.85	50
4-Bromofluorobenzene	0.408	0.418		2.45	50

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