

LAB CHRONICLE

OrderID:	Q2645	OrderDate:	7/18/2025 11:25:00 AM
Client:	Tetra Tech NUS, Inc.	Project:	NWIRP Bethpage 112G08005-WE13
Contact:	Ernie Wu	Location:	--Select--,O41

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q2645-03	RW5B-CARBON-20250 716	TCLP	TCLP VOA	8260D	07/16/25		07/21/25	07/18/25

Hit Summary Sheet SW-846

SDG No.: Q2645

Client: Tetra Tech NUS, Inc.

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	LOD	RDL	Units
Client ID:	RW5B-CARBON-20250716								
Q2645-03	RW5B-CARBON-2 TCLP		Chloroform	3.00	J	0.25	0.50	5.00	ug/L
Q2645-03	RW5B-CARBON-2 TCLP		Trichloroethene	1.10	J	0.090	0.75	5.00	ug/L
			Total Voc :	4.10					
			Total Concentration:	4.10					



SAMPLE DATA

Report of Analysis

Client:	Tetra Tech NUS, Inc.			Date Collected:	07/16/25		
Project:	NWIRP Bethpage 112G08005-WE13			Date Received:	07/18/25		
Client Sample ID:	RW5B-CARBON-20250716			SDG No.:	Q2645		
Lab Sample ID:	Q2645-03			Matrix:	TCLP		
Analytical Method:	8260D			% Solid:	0		
Sample Wt/Vol:	5	Units:	mL	Final Vol:	5000	uL	
Soil Aliquot Vol:			uL	Test:	TCLP VOA		
GC Column:	RXI-624	ID :	0.25	Level :	LOW		
Prep Method :	SW5035						

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VN087377.D	1	07/21/25 14:16	VN072125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-01-4	Vinyl Chloride	0.75	U	0.26	0.75	5.00	ug/L
75-35-4	1,1-Dichloroethene	0.75	U	0.23	0.75	5.00	ug/L
78-93-3	2-Butanone	2.50	U	0.98	2.50	25.0	ug/L
56-23-5	Carbon Tetrachloride	0.50	U	0.25	0.50	5.00	ug/L
67-66-3	Chloroform	3.00	J	0.25	0.50	5.00	ug/L
71-43-2	Benzene	0.50	U	0.15	0.50	5.00	ug/L
107-06-2	1,2-Dichloroethane	0.75	U	0.22	0.75	5.00	ug/L
79-01-6	Trichloroethene	1.10	J	0.090	0.75	5.00	ug/L
127-18-4	Tetrachloroethene	0.50	U	0.23	0.50	5.00	ug/L
108-90-7	Chlorobenzene	0.50	U	0.12	0.50	5.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	56.3		81 - 118		113%	SPK: 50
1868-53-7	Dibromofluoromethane	52.0		80 - 119		104%	SPK: 50
2037-26-5	Toluene-d8	51.0		89 - 112		102%	SPK: 50
460-00-4	4-Bromofluorobenzene	46.2		85 - 114		92%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	135000	8.206				
540-36-3	1,4-Difluorobenzene	275000	9.083				
3114-55-4	Chlorobenzene-d5	250000	11.847				
3855-82-1	1,4-Dichlorobenzene-d4	118000	13.77				

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.: Q2645

Client: Tetra Tech NUS, Inc.

Analytical Method: SW8260D

Lab Sample ID	Client ID	Parameter	Spike	Result	Recovery (%)	Qual	Limits (%)	
							Low	High
Q2645-03	RW5B-CARBON-20250716	1,2-Dichloroethane-d4	50	56.3	113		81	118
		Dibromofluoromethane	50	52.0	104		80	119
		Toluene-d8	50	51.0	102		89	112
		4-Bromofluorobenzene	50	46.2	92		85	114
VN0721WBL01	VN0721WBL01	1,2-Dichloroethane-d4	50	54.7	109		81	118
		Dibromofluoromethane	50	51.4	103		80	119
		Toluene-d8	50	51.0	102		89	112
		4-Bromofluorobenzene	50	46.4	93		85	114
VN0721WBS01	VN0721WBS01	1,2-Dichloroethane-d4	50	47.3	95		81	118
		Dibromofluoromethane	50	48.8	98		80	119
		Toluene-d8	50	50.4	101		89	112
		4-Bromofluorobenzene	50	49.9	100		85	114
VN0721WBSD0	VN0721WBSD01	1,2-Dichloroethane-d4	50	47.2	94		81	118
		Dibromofluoromethane	50	50.3	101		80	119
		Toluene-d8	50	50.6	101		89	112
		4-Bromofluorobenzene	50	50.0	100		85	114

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.:	<u>Q2645</u>	Analytical Method:	<u>SW8260D</u>
Client:	<u>Tetra Tech NUS, Inc.</u>	Datafile :	<u>VN087371.D</u>

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits	RPD
									High	
VN0721WBS01	Vinyl chloride	20	19.0	ug/L	95			58	137	
	1,1-Dichloroethene	20	18.1	ug/L	91			71	131	
	2-Butanone	100	86.4	ug/L	86			56	143	
	Carbon Tetrachloride	20	19.6	ug/L	98			72	136	
	Chloroform	20	17.9	ug/L	90			79	124	
	Benzene	20	19.4	ug/L	97			79	120	
	1,2-Dichloroethane	20	18.3	ug/L	92			73	128	
	Trichloroethene	20	18.8	ug/L	94			79	123	
	Tetrachloroethene	20	18.3	ug/L	92			74	129	
	Chlorobenzene	20	18.6	ug/L	93			82	118	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.:	<u>Q2645</u>	Analytical Method:	<u>SW8260D</u>
Client:	<u>Tetra Tech NUS, Inc.</u>	Datafile :	<u>VN087372.D</u>

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits	RPD
									High	
VN0721WBSD01	Vinyl chloride	20	19.0	ug/L	95	0		58	137	20
	1,1-Dichloroethene	20	17.6	ug/L	88	3		71	131	20
	2-Butanone	100	88.2	ug/L	88	2		56	143	20
	Carbon Tetrachloride	20	19.8	ug/L	99	1		72	136	20
	Chloroform	20	18.4	ug/L	92	2		79	124	20
	Benzene	20	19.2	ug/L	96	1		79	120	20
	1,2-Dichloroethane	20	18.8	ug/L	94	2		73	128	20
	Trichloroethene	20	18.8	ug/L	94	0		79	123	20
	Tetrachloroethene	20	19.3	ug/L	97	5		74	129	20
	Chlorobenzene	20	18.6	ug/L	93	0		82	118	20

VOLATILE METHOD BLANK SUMMARY

Client ID

VN0721WBL01

Lab Name: Alliance

Contract: TETR06

Lab Code: ACE

SDG NO.: Q2645

Lab File ID: VN087370.D

Lab Sample ID: VN0721WBL01

Date Analyzed: 07/21/2025

Time Analyzed: 11:34

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

Heated Purge: (Y/N) N

Instrument ID: MSVOA_N

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
VN0721WBS01	VN0721WBS01	VN087371.D	07/21/2025
VN0721WBSD01	VN0721WBSD01	VN087372.D	07/21/2025
RW5B-CARBON-20250716	Q2645-03	VN087377.D	07/21/2025

COMMENTS: _____

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Alliance

Contract: TETR06

Lab Code: ACE

SDG NO.: Q2645

Lab File ID: VN087327.D

BFB Injection Date: 07/16/2025

Instrument ID: MSVOA_N

BFB Injection Time: 16:10

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

Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	19.8
75	30.0 - 60.0% of mass 95	50.8
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.1
173	Less than 2.0% of mass 174	0.6 (0.8) 1
174	50.0 - 100.0% of mass 95	70.9
175	5.0 - 9.0% of mass 174	3.6 (5.1) 1
176	95.0 - 101.0% of mass 174	68.7 (96.9) 1
177	5.0 - 9.0% of mass 176	4.8 (7) 2

1-Value is % mass 174

2-Value is % mass 176

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

CLIENT ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDIC001	VSTDIC001	VN087328.D	07/16/2025	17:05
VSTDIC005	VSTDIC005	VN087329.D	07/16/2025	17:27
VSTDIC020	VSTDIC020	VN087330.D	07/16/2025	17:49
VSTDIC050	VSTDIC050	VN087331.D	07/16/2025	18:11
VSTDIC100	VSTDIC100	VN087332.D	07/16/2025	18:32
VSTDIC150	VSTDIC150	VN087333.D	07/16/2025	18:54

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Alliance

Contract: TETR06

Lab Code: ACE

SDG NO.: Q2645

Lab File ID: VN087367.D

BFB Injection Date: 07/21/2025

Instrument ID: MSVOA_N

BFB Injection Time: 10:05

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

Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	21.1
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	7.4
173	Less than 2.0% of mass 174	1.5 (1.9) 1
174	50.0 - 100.0% of mass 95	75.2
175	5.0 - 9.0% of mass 174	6 (8) 1
176	95.0 - 101.0% of mass 174	72.4 (96.3) 1
177	5.0 - 9.0% of mass 176	5 (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:

CLIENT ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC050	VSTDCCC050	VN087368.D	07/21/2025	10:38
VN0721WBL01	VN0721WBL01	VN087370.D	07/21/2025	11:34
VN0721WBS01	VN0721WBS01	VN087371.D	07/21/2025	11:55
VN0721WBSD01	VN0721WBSD01	VN087372.D	07/21/2025	12:30
RW5B-CARBON-20250716	Q2645-03	VN087377.D	07/21/2025	14:16
VSTDCCC050EC	VSTDCCC050	VN087387.D	07/21/2025	17:50

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance Contract: TETR06
Lab Code: ACE SDG NO.: Q2645
Lab File ID: VN087368.D Date Analyzed: 07/21/2025
Instrument ID: MSVOA_N Time Analyzed: 10:38
GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	202357	8.21	342303	9.08	307825	11.85
UPPER LIMIT	404714	8.706	684606	9.583	615650	12.347
LOWER LIMIT	101179	7.706	171152	8.583	153913	11.347
EPA SAMPLE NO.						
RW5B-CARBON-20250716	134547	8.21	274518	9.08	249654	11.85
VN0721WBL01	164239	8.21	328305	9.08	300772	11.85
VN0721WBS01	195078	8.21	337215	9.09	308523	11.85
VN0721WBSD01	190787	8.21	328848	9.08	296338	11.85

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:	<u>Alliance</u>	Contract:	<u>TETR06</u>
Lab Code:	<u>ACE</u>	SDG NO.:	<u>Q2645</u>
Lab File ID:	<u>VN087368.D</u>	Date Analyzed:	<u>07/21/2025</u>
Instrument ID:	<u>MSVOA_N</u>	Time Analyzed:	<u>10:38</u>
GC Column:	<u>RXI-624</u>	ID:	<u>0.25</u> (mm)
		Heated Purge:	(Y/N) <u>N</u>

	IS4 AREA #	RT #				
12 HOUR STD	162263	13.77				
UPPER LIMIT	324526	14.27				
LOWER LIMIT	81131.5	13.27				
EPA SAMPLE NO.						
RW5B-CARBON-20250716	117578	13.77				
VN0721WBL01	133337	13.77				
VN0721WBS01	161452	13.77				
VN0721WBSD01	158557	13.77				

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:	VN0721WBL01		SDG No.:	Q2645
Lab Sample ID:	VN0721WBL01		Matrix:	TCLP
Analytical Method:	8260D		% Solid:	0
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:		uL	Test:	TCLP VOA
GC Column:	RXI-624	ID : 0.25	Level :	LOW
Prep Method :				

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VN087370.D	1	07/21/25 11:34	VN072125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-01-4	Vinyl Chloride	0.75	U	0.26	0.75	5.00	ug/L
75-35-4	1,1-Dichloroethene	0.75	U	0.23	0.75	5.00	ug/L
78-93-3	2-Butanone	2.50	U	0.98	2.50	25.0	ug/L
56-23-5	Carbon Tetrachloride	0.50	U	0.25	0.50	5.00	ug/L
67-66-3	Chloroform	0.50	U	0.25	0.50	5.00	ug/L
71-43-2	Benzene	0.50	U	0.15	0.50	5.00	ug/L
107-06-2	1,2-Dichloroethane	0.75	U	0.22	0.75	5.00	ug/L
79-01-6	Trichloroethene	0.75	U	0.090	0.75	5.00	ug/L
127-18-4	Tetrachloroethene	0.50	U	0.23	0.50	5.00	ug/L
108-90-7	Chlorobenzene	0.50	U	0.12	0.50	5.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	54.7		81 - 118		109%	SPK: 50
1868-53-7	Dibromofluoromethane	51.3		80 - 119		103%	SPK: 50
2037-26-5	Toluene-d8	51.0		89 - 112		102%	SPK: 50
460-00-4	4-Bromofluorobenzene	46.4		85 - 114		93%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	164000	8.212				
540-36-3	1,4-Difluorobenzene	328000	9.083				
3114-55-4	Chlorobenzene-d5	301000	11.847				
3855-82-1	1,4-Dichlorobenzene-d4	133000	13.771				

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:	VN0721WBS01		SDG No.:	Q2645
Lab Sample ID:	VN0721WBS01		Matrix:	TCLP
Analytical Method:	8260D		% Solid:	0
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:		uL	Test:	TCLP VOA
GC Column:	RXI-624	ID : 0.25	Level :	LOW
Prep Method :				

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VN087371.D	1	07/21/25 11:55	VN072125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-01-4	Vinyl Chloride	19.0		0.26	0.75	5.00	ug/L
75-35-4	1,1-Dichloroethene	18.1		0.23	0.75	5.00	ug/L
78-93-3	2-Butanone	86.4		0.98	2.50	25.0	ug/L
56-23-5	Carbon Tetrachloride	19.6		0.25	0.50	5.00	ug/L
67-66-3	Chloroform	17.9		0.25	0.50	5.00	ug/L
71-43-2	Benzene	19.4		0.15	0.50	5.00	ug/L
107-06-2	1,2-Dichloroethane	18.3		0.22	0.75	5.00	ug/L
79-01-6	Trichloroethene	18.8		0.090	0.75	5.00	ug/L
127-18-4	Tetrachloroethene	18.3		0.23	0.50	5.00	ug/L
108-90-7	Chlorobenzene	18.6		0.12	0.50	5.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	47.3		81 - 118		95%	SPK: 50
1868-53-7	Dibromofluoromethane	48.8		80 - 119		98%	SPK: 50
2037-26-5	Toluene-d8	50.4		89 - 112		101%	SPK: 50
460-00-4	4-Bromofluorobenzene	49.9		85 - 114		100%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	195000	8.206				
540-36-3	1,4-Difluorobenzene	337000	9.088				
3114-55-4	Chlorobenzene-d5	309000	11.847				
3855-82-1	1,4-Dichlorobenzene-d4	161000	13.77				

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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:	VN0721WBSD01		SDG No.:	Q2645	
Lab Sample ID:	VN0721WBSD01		Matrix:	TCLP	
Analytical Method:	8260D		% Solid:	0	
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000	uL
Soil Aliquot Vol:		uL	Test:	TCLP VOA	
GC Column:	RXI-624	ID : 0.25	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VN087372.D	1	07/21/25 12:30	VN072125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-01-4	Vinyl Chloride	19.0		0.26	0.75	5.00	ug/L
75-35-4	1,1-Dichloroethene	17.6		0.23	0.75	5.00	ug/L
78-93-3	2-Butanone	88.2		0.98	2.50	25.0	ug/L
56-23-5	Carbon Tetrachloride	19.8		0.25	0.50	5.00	ug/L
67-66-3	Chloroform	18.4		0.25	0.50	5.00	ug/L
71-43-2	Benzene	19.2		0.15	0.50	5.00	ug/L
107-06-2	1,2-Dichloroethane	18.8		0.22	0.75	5.00	ug/L
79-01-6	Trichloroethene	18.8		0.090	0.75	5.00	ug/L
127-18-4	Tetrachloroethene	19.3		0.23	0.50	5.00	ug/L
108-90-7	Chlorobenzene	18.6		0.12	0.50	5.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	47.2		81 - 118		94%	SPK: 50
1868-53-7	Dibromofluoromethane	50.3		80 - 119		101%	SPK: 50
2037-26-5	Toluene-d8	50.6		89 - 112		101%	SPK: 50
460-00-4	4-Bromofluorobenzene	50.0		85 - 114		100%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	191000	8.206				
540-36-3	1,4-Difluorobenzene	329000	9.082				
3114-55-4	Chlorobenzene-d5	296000	11.847				
3855-82-1	1,4-Dichlorobenzene-d4	159000	13.77				

U = Not Detected

LOQ = Limit of Quantitation

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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>Alliance</u>	Contract: <u>TETR06</u>
Lab Code: <u>ACE</u>	SDG No.: <u>Q2645</u>
Instrument ID: <u>MSVOA_N</u>	Calibration Date(s): <u>07/16/2025</u> <u>07/16/2025</u>
Heated Purge: (Y/N) <u>N</u>	Calibration Time(s): <u>17:05</u> <u>18:54</u>
GC Column: <u>RXI-624</u> ID: <u>0.25</u> (mm)	

LAB FILE ID:		RRF001 = VN087328.D		RRF005 = VN087329.D		RRF020 = VN087330.D		
		RRF050 = VN087331.D		RRF100 = VN087332.D		RRF150 = VN087333.D		
COMPOUND	RRF001	RRF005	RRF020	RRF050	RRF100	RRF150	RRF	% RSD
Vinyl Chloride	0.554	0.665	0.623	0.728	0.692	0.720	0.664	9.9
1,1-Dichloroethene	0.635	0.641	0.553	0.545	0.514	0.537	0.571	9.4
2-Butanone	0.552	0.608	0.650	0.643	0.617	0.618	0.615	5.7
Carbon Tetrachloride	0.453	0.523	0.498	0.517	0.504	0.518	0.502	5.1
Chloroform	1.181	1.299	1.303	1.279	1.214	1.234	1.251	4
Benzene	1.370	1.430	1.502	1.553	1.483	1.499	1.473	4.3
1,2-Dichloroethane	0.553	0.565	0.569	0.567	0.544	0.552	0.558	1.8
Trichloroethene	0.373	0.330	0.337	0.356	0.339	0.352	0.348	4.5
Tetrachloroethene	0.329	0.338	0.317	0.320	0.310	0.317	0.322	3.2
Chlorobenzene	1.139	1.131	1.133	1.119	1.092	1.122	1.123	1.5
1,2-Dichloroethane-d4		0.939	0.820	0.802	0.818	0.863	0.848	6.6
Dibromofluoromethane		0.347	0.341	0.332	0.348	0.356	0.345	2.6
Toluene-d8		1.180	1.176	1.224	1.255	1.316	1.230	4.7
4-Bromofluorobenzene		0.405	0.433	0.455	0.476	0.505	0.455	8.5

* 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:	<u>Alliance</u>	Contract:	<u>TETR06</u>
Lab Code:	<u>ACE</u>	SDG No.:	<u>Q2645</u>
Instrument ID:	<u>MSVOA_N</u>	Calibration Date/Time:	<u>07/21/2025</u> <u>10:38</u>
Lab File ID:	<u>VN087368.D</u>	Init. Calib. Date(s):	<u>07/16/2025</u> <u>07/16/2025</u>
Heated Purge: (Y/N)	<u>N</u>	Init. Calib. Time(s):	<u>17:05</u> <u>18:54</u>
GC Column:	<u>RXI-624</u>	ID:	<u>0.25</u> (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Vinyl Chloride	0.664	0.725		9.19	20
1,1-Dichloroethene	0.571	0.556		-2.63	20
2-Butanone	0.615	0.586		-4.72	20
Carbon Tetrachloride	0.502	0.596		18.73	20
Chloroform	1.251	1.287		2.88	20
Benzene	1.473	1.638		11.2	20
1,2-Dichloroethane	0.558	0.595		6.63	20
Trichloroethene	0.348	0.383		10.06	20
Tetrachloroethene	0.322	0.364		13.04	20
Chlorobenzene	1.123	1.199	0.3	6.77	20
1,2-Dichloroethane-d4	0.848	0.831		-2.01	20
Dibromofluoromethane	0.345	0.356		3.19	20
Toluene-d8	1.230	1.321		7.4	20
4-Bromofluorobenzene	0.455	0.481		5.71	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:	<u>Alliance</u>	Contract:	<u>TETR06</u>
Lab Code:	<u>ACE</u>	SDG No.:	<u>Q2645</u>
Instrument ID:	<u>MSVOA_N</u>	Calibration Date/Time:	<u>07/21/2025</u> <u>17:50</u>
Lab File ID:	<u>VN087387.D</u>	Init. Calib. Date(s):	<u>07/16/2025</u> <u>07/16/2025</u>
Heated Purge: (Y/N)	<u>N</u>	Init. Calib. Time(s):	<u>17:05</u> <u>18:54</u>
GC Column:	<u>RXI-624</u>	ID:	<u>0.25</u> (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Vinyl Chloride	0.664	0.738		11.15	50
1,1-Dichloroethene	0.571	0.571		0	50
2-Butanone	0.615	0.625		1.63	50
Carbon Tetrachloride	0.502	0.579		15.34	50
Chloroform	1.251	1.293		3.36	50
Benzene	1.473	1.632		10.79	50
1,2-Dichloroethane	0.558	0.581		4.12	50
Trichloroethene	0.348	0.378		8.62	50
Tetrachloroethene	0.322	0.349		8.39	50
Chlorobenzene	1.123	1.201	0.3	6.95	50
1,2-Dichloroethane-d4	0.848	0.801		-5.54	50
Dibromofluoromethane	0.345	0.340		-1.45	50
Toluene-d8	1.230	1.257		2.19	50
4-Bromofluorobenzene	0.455	0.466		2.42	50

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