284 Sheffield Street, Mountainside NJ 07092 Tel. 908-789-8900 Fax: 908-789-8922

DATA REPORTING QUALIFIERS- ORGANIC

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

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

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LAB CHRONICLE

OrderID:	Q2177	**OrderDate:**	6/2/2025 11:19:00 AM
Client:	Portal Partners Tri-Venture	**Project:**	Amtrak Sawtooth Bridges 2025
Contact:	Joseph Krupansky	**Location:**	L41,VOA Ref. #2 Soil,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q2177-03	**B-187-SB01**	**TCLP**			**05/31/25**			**06/02/25**
			TCLP VOA	8260D			06/03/25	
Q2177-05	**B-187-SB02**	**TCLP**			**05/31/25**			**06/02/25**
			TCLP VOA	8260D			06/03/25	
Q2177-07	**B-202-SB01**	**TCLP**			**05/31/25**			**06/02/25**
			TCLP VOA	8260D			06/03/25	

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Hit Summary Sheet
SW-846

SDG No.: Q2177

Client: Portal Partners Tri-Venture

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID:	**B-187-SB02**							
Q2177-05	B-187-SB02	TCLP	2-Butanone	10.3	J	0.98	25.0	ug/L
			Total Voc :	10.3				
			Total Concentration:	10.3				

QC SUMMARY

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Surrogate Summary

SDG No.: Q2177

Client: Portal Partners Tri-Venture

Analytical Method: SW8260D

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits Low	Limits High
Q2177-03	B-187-SB01	1,2-Dichloroethane-d4	50	49.9	100	70 (74)	130 (125)
		Dibromofluoromethane	50	52.8	106	70 (75)	130 (124)
		Toluene-d8	50	51.0	102	70 (86)	130 (113)
		4-Bromofluorobenzene	50	50.9	102	70 (77)	130 (121)
Q2177-05	B-187-SB02	1,2-Dichloroethane-d4	50	50.7	101	70 (74)	130 (125)
		Dibromofluoromethane	50	53.1	106	70 (75)	130 (124)
		Toluene-d8	50	52.2	104	70 (86)	130 (113)
		4-Bromofluorobenzene	50	53.3	106	70 (77)	130 (121)
Q2177-07	B-202-SB01	1,2-Dichloroethane-d4	50	51.5	103	70 (74)	130 (125)
		Dibromofluoromethane	50	53.2	106	70 (75)	130 (124)
		Toluene-d8	50	52.0	104	70 (86)	130 (113)
		4-Bromofluorobenzene	50	54.6	109	70 (77)	130 (121)
VN0603WBL01	VN0603WBL01	1,2-Dichloroethane-d4	50	46.6	93	70 (74)	130 (125)
		Dibromofluoromethane	50	51.3	103	70 (75)	130 (124)
		Toluene-d8	50	51.3	103	70 (86)	130 (113)
		4-Bromofluorobenzene	50	52.9	106	70 (77)	130 (121)
VN0603WBS01	VN0603WBS01	1,2-Dichloroethane-d4	50	45.7	91	70 (74)	130 (125)
		Dibromofluoromethane	50	49.5	99	70 (75)	130 (124)
		Toluene-d8	50	47.6	95	70 (86)	130 (113)
		4-Bromofluorobenzene	50	47.3	95	70 (77)	130 (121)
VN0603WBSD0	VN0603WBSD01	1,2-Dichloroethane-d4	50	46.4	93	70 (74)	130 (125)
		Dibromofluoromethane	50	50.0	100	70 (75)	130 (124)
		Toluene-d8	50	47.0	94	70 (86)	130 (113)
		4-Bromofluorobenzene	50	46.9	94	70 (77)	130 (121)

( ) = LABORATORY INHOUSE LIMIT

( ) = LABORATORY INHOUSE LIMIT

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2177

Client: Portal Partners Tri-Venture

Analytical Method: SW8260D **Datafile :** VN086837.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VN0603WBS01	Vinyl chloride	20	16.7	ug/L	84			70 (65)	130 (117)	
	1,1-Dichloroethene	20	18.5	ug/L	93			70 (74)	130 (110)	
	2-Butanone	100	94.0	ug/L	94			40 (65)	160 (122)	
	Carbon Tetrachloride	20	18.8	ug/L	94			70 (77)	130 (113)	
	Chloroform	20	18.3	ug/L	92			70 (79)	130 (113)	
	Benzene	20	19.2	ug/L	96			70 (82)	130 (109)	
	1,2-Dichloroethane	20	18.3	ug/L	92			70 (80)	130 (115)	
	Trichloroethene	20	18.5	ug/L	93			70 (77)	130 (113)	
	Tetrachloroethene	20	15.8	ug/L	79			70 (67)	130 (123)	
	Chlorobenzene	20	19.5	ug/L	98			70 (82)	130 (109)	

( ) = LABORATORY INHOUSE LIMIT

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2177

Client: Portal Partners Tri-Venture

Analytical Method: SW8260D **Datafile :** VN086838.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	Limits RPD
VN0603WBSD01	Vinyl chloride	20	16.1	ug/L	81	4		70 (65)	130 (117)	20 (20)
	1,1-Dichloroethene	20	17.9	ug/L	90	3		70 (74)	130 (110)	20 (20)
	2-Butanone	100	94.6	ug/L	95	1		40 (65)	160 (122)	20 (20)
	Carbon Tetrachloride	20	18.5	ug/L	93	1		70 (77)	130 (113)	20 (20)
	Chloroform	20	18.2	ug/L	91	1		70 (79)	130 (113)	20 (20)
	Benzene	20	18.8	ug/L	94	2		70 (82)	130 (109)	20 (20)
	1,2-Dichloroethane	20	18.3	ug/L	92	0		70 (80)	130 (115)	20 (20)
	Trichloroethene	20	17.9	ug/L	90	3		70 (77)	130 (113)	20 (20)
	Tetrachloroethene	20	15.4	ug/L	77	3		70 (67)	130 (123)	20 (20)
	Chlorobenzene	20	19.4	ug/L	97	1		70 (82)	130 (109)	20 (20)

( ) = LABORATORY INHOUSE LIMIT

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VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VN0603WBL01

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q2177 SAS No.: Q2177 SDG NO.: Q2177

Lab File ID: VN086836.D Lab Sample ID: VN0603WBL01

Date Analyzed: 06/03/2025 Time Analyzed: 12:10

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
VN0603WBS01	VN0603WBS01	VN086837.D	06/03/2025
VN0603WBSD01	VN0603WBSD01	VN086838.D	06/03/2025
B-187-SB01	Q2177-03	VN086855.D	06/03/2025
B-187-SB02	Q2177-05	VN086856.D	06/03/2025
B-202-SB01	Q2177-07	VN086857.D	06/03/2025

COMMENTS:

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q2177 SAS No.: Q2177 SDG NO.: Q2177

Lab File ID: VN086668.D BFB Injection Date: 05/16/2025

Instrument ID: MSVOA_N BFB Injection Time: 15:33

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	17.9
75	30.0 - 60.0% of mass 95	50
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	0.7 (0.9) 1
174	50.0 - 100.0% of mass 95	74.9
175	5.0 - 9.0% of mass 174	5.7 (7.6) 1
176	95.0 - 101.0% of mass 174	73.6 (98.2) 1
177	5.0 - 9.0% of mass 176	4.5 (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
VSTDICC001	VSTDICC001	VN086669.D	05/16/2025	16:31
VSTDICC005	VSTDICC005	VN086670.D	05/16/2025	16:55
VSTDICC010	VSTDICC010	VN086671.D	05/16/2025	17:19
VSTDICC020	VSTDICC020	VN086672.D	05/16/2025	17:43
VSTDICCC050	VSTDICCC050	VN086673.D	05/16/2025	18:08
VSTDICC100	VSTDICC100	VN086674.D	05/16/2025	18:32

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q2177 SAS No.: Q2177 SDG NO.: Q2177

Lab File ID: VN086834.D BFB Injection Date: 06/03/2025

Instrument ID: MSVOA_N BFB Injection Time: 10:47

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	16.8
75	30.0 - 60.0% of mass 95	47.6
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	0.6 (0.9) 1
174	50.0 - 100.0% of mass 95	69.9
175	5.0 - 9.0% of mass 174	5.5 (7.9) 1
176	95.0 - 101.0% of mass 174	68.3 (97.6) 1
177	5.0 - 9.0% of mass 176	4.3 (6.2) 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	VN086835.D	06/03/2025	11:30
VN0603WBL01	VN0603WBL01	VN086836.D	06/03/2025	12:10
VN0603WBS01	VN0603WBS01	VN086837.D	06/03/2025	12:46
VN0603WBSD01	VN0603WBSD01	VN086838.D	06/03/2025	13:20
B-187-SB01	Q2177-03	VN086855.D	06/03/2025	20:12
B-187-SB02	Q2177-05	VN086856.D	06/03/2025	20:36
B-202-SB01	Q2177-07	VN086857.D	06/03/2025	21:00

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q2177 SAS No.: Q2177 SDG NO.: Q2177

Lab File ID: VN086835.D Date Analyzed: 06/03/2025

Instrument ID: MSVOA_N Time Analyzed: 11:30

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	307948	8.22	547716	9.09	465701	11.87
UPPER LIMIT	615896	8.718	1095430	9.594	931402	12.365
LOWER LIMIT	153974	7.718	273858	8.594	232851	11.365
EPA SAMPLE NO.						
B-187-SB01	220507	8.22	428516	9.10	389120	11.87
B-187-SB02	221135	8.22	428494	9.10	404884	11.87
B-202-SB01	214739	8.22	418395	9.10	402557	11.87
VN0603WBL01	257056	8.22	493879	9.09	460882	11.87
VN0603WBS01	311874	8.22	552803	9.09	467842	11.87
VN0603WBSD01	283988	8.22	510275	9.09	430553	11.87

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.

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q2177 SAS No.: Q2177 SDG NO.: Q2177

Lab File ID: VN086835.D Date Analyzed: 06/03/2025

Instrument ID: MSVOA_N Time Analyzed: 11:30

GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

	IS4 AREA #	RT #				
12 HOUR STD	208517	13.788				
UPPER LIMIT	417034	14.288				
LOWER LIMIT	104259	13.288				
EPA SAMPLE NO.						
B-187-SB01	163382	13.79				
B-187-SB02	181011	13.79				
B-202-SB01	183854	13.79				
VN0603WBL01	202290	13.79				
VN0603WBS01	208414	13.79				
VN0603WBSD01	192303	13.79				

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.

SAMPLE DATA

Raw Data: **VN086855.D**

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	05/31/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	06/02/25
Client Sample ID:	B-187-SB01	SDG No.:	Q2177
Lab Sample ID:	Q2177-03	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:	Prep Date	Date Analyzed	Prep Batch ID
VN086855.D	1		06/03/25 20:12	VN060325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-01-4	Vinyl Chloride	0.26	U	0.26	5.00	ug/L
75-35-4	1,1-Dichloroethene	0.23	U	0.23	5.00	ug/L
78-93-3	2-Butanone	0.98	U	0.98	25.0	ug/L
56-23-5	Carbon Tetrachloride	0.25	U	0.25	5.00	ug/L
67-66-3	Chloroform	0.25	U	0.25	5.00	ug/L
71-43-2	Benzene	0.15	U	0.15	5.00	ug/L
107-06-2	1,2-Dichloroethane	0.22	U	0.22	5.00	ug/L
79-01-6	Trichloroethene	0.090	U	0.090	5.00	ug/L
127-18-4	Tetrachloroethene	0.23	U	0.23	5.00	ug/L
108-90-7	Chlorobenzene	0.12	U	0.12	5.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	49.9		70 (74) - 130 (125)	100%	SPK: 50
1868-53-7	Dibromofluoromethane	52.8		70 (75) - 130 (124)	106%	SPK: 50
2037-26-5	Toluene-d8	51.0		70 (86) - 130 (113)	102%	SPK: 50
460-00-4	4-Bromofluorobenzene	50.9		70 (77) - 130 (121)	102%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	221000	8.218			
540-36-3	1,4-Difluorobenzene	429000	9.1			
3114-55-4	Chlorobenzene-d5	389000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	163000	13.794			

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN060325\
Data File : VN086855.D
Acq On : 03 Jun 2025 20:12
Operator : JC\MD
Sample : Q2177-03
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 22 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
B-187-SB01

Quant Time: Jun 04 02:06:37 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N051625W.M
Quant Title : SW846 8260
QLast Update : Sat May 17 00:46:13 2025
Response via : Initial Calibration

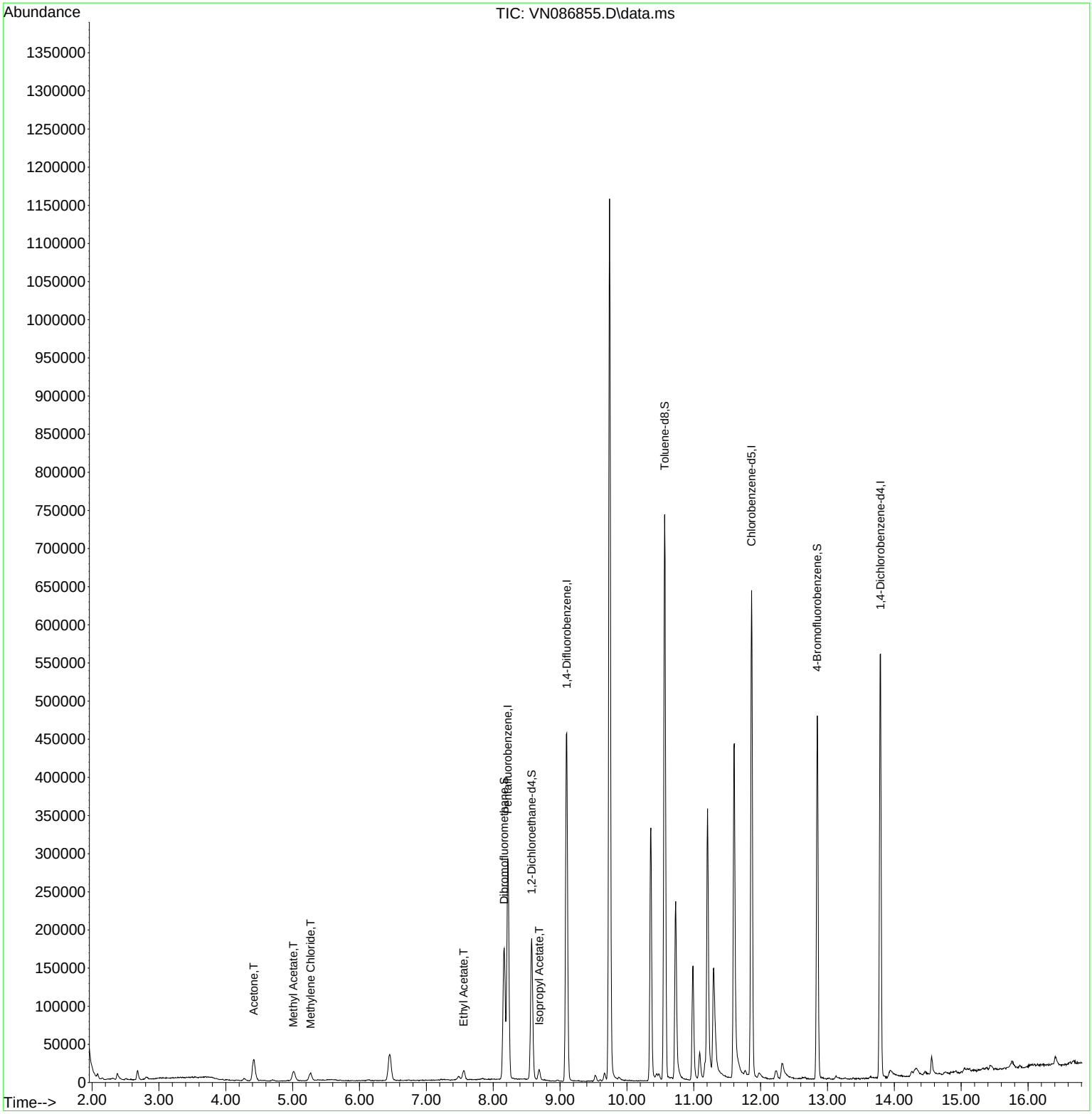
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.218	168	220507	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	428516	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	389120	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	163382	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	152038	49.898	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 99.800%			
35) Dibromofluoromethane	8.165	113	134789	52.817	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 105.640%			
50) Toluene-d8	10.565	98	539671	51.030	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 102.060%			
62) 4-Bromofluorobenzene	12.847	95	190230	50.943	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 101.880%			
Target Compounds						Qvalue
16) Acetone	4.418	43	55936	49.076	ug/l	98
18) Methyl Acetate	5.012	43	28263	8.860	ug/l	99
20) Methylene Chloride	5.271	84	8493	2.824	ug/l	95
37) Ethyl Acetate	7.559	43	18707	4.920	ug/l	98
43) Isopropyl Acetate	8.688	43	15645	2.052	ug/l	94

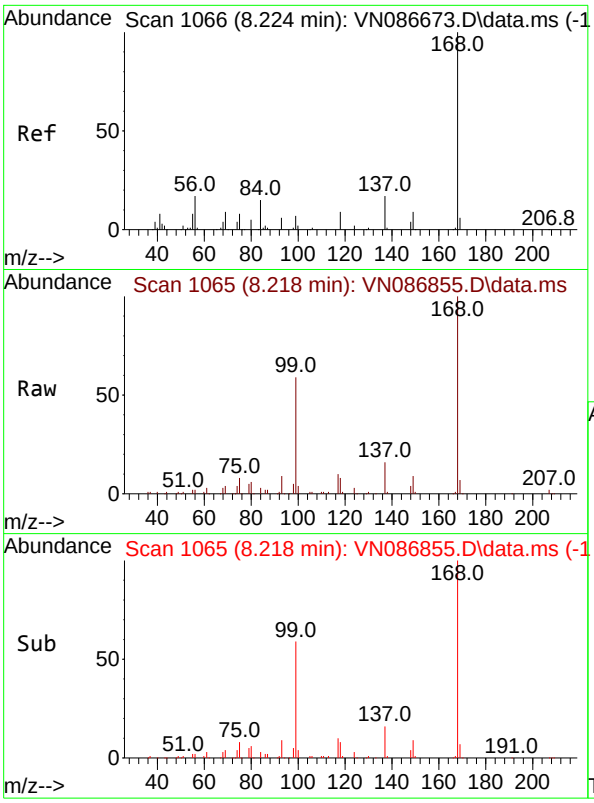
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN060325\
Data File : VN086855.D
Acq On : 03 Jun 2025 20:12
Operator : JC\MD
Sample : Q2177-03
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 22 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
B-187-SB01

Quant Time: Jun 04 02:06:37 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N051625W.M
Quant Title : SW846 8260
QLast Update : Sat May 17 00:46:13 2025
Response via : Initial Calibration



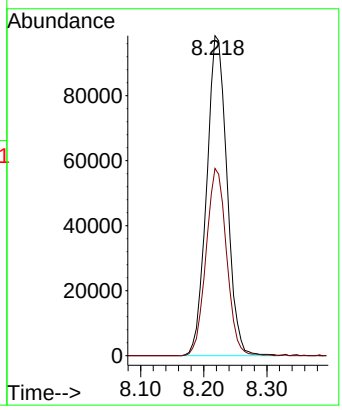


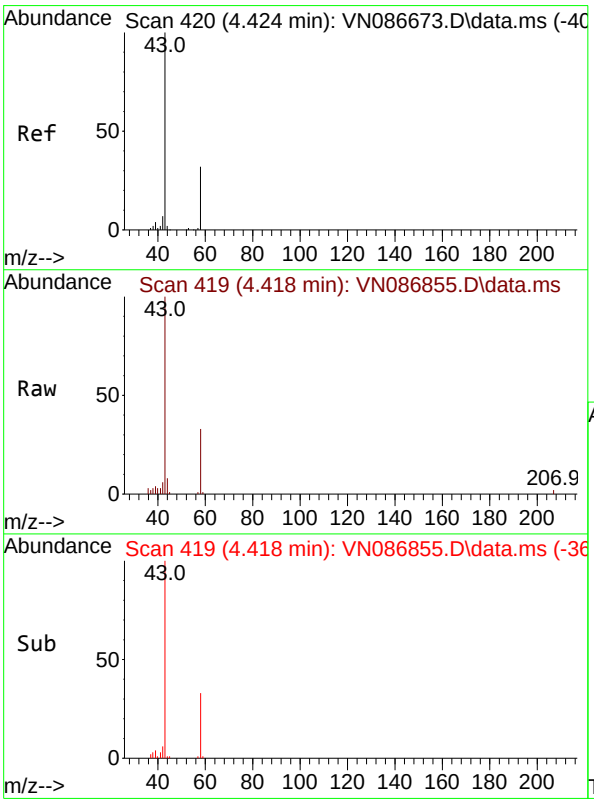
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.218 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN086855.D
Acq: 03 Jun 2025 20:12

Instrument :
MSVOA_N
ClientSampleId :
B-187-SB01

Tgt Ion:168 Resp: 220507

Ion	Ratio	Lower	Upper
168	100		
99	58.5	47.0	70.4

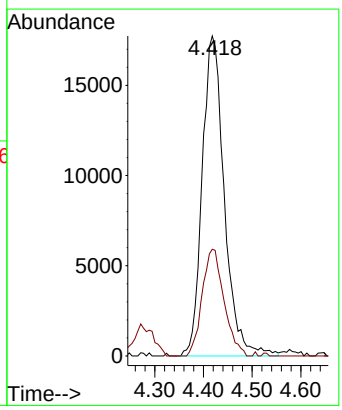


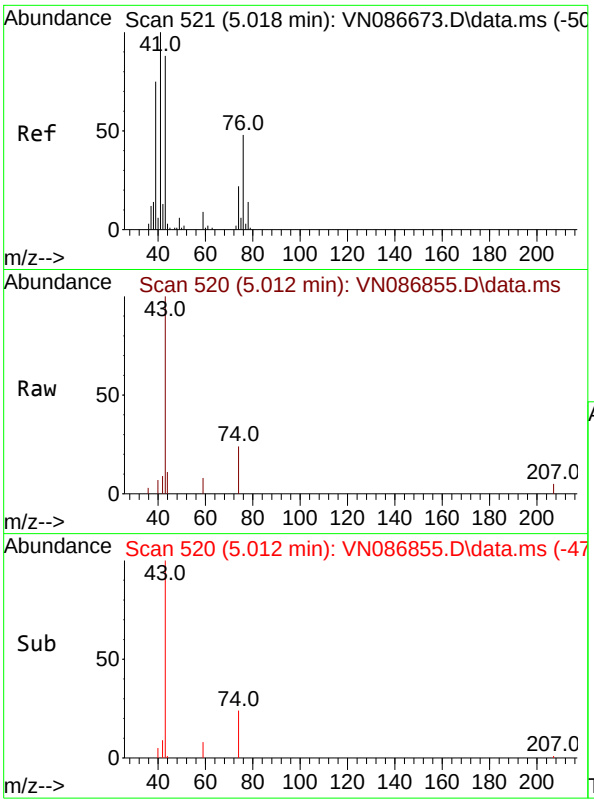


#16
Acetone
Concen: 49.076 ug/l
RT: 4.418 min Scan# 419
Delta R.T. -0.006 min
Lab File: VN086855.D
Acq: 03 Jun 2025 20:12

Tgt Ion: 43 Resp: 55936

Ion	Ratio	Lower	Upper
43	100		
58	33.4	25.8	38.6



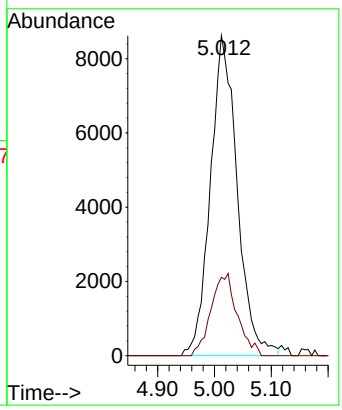


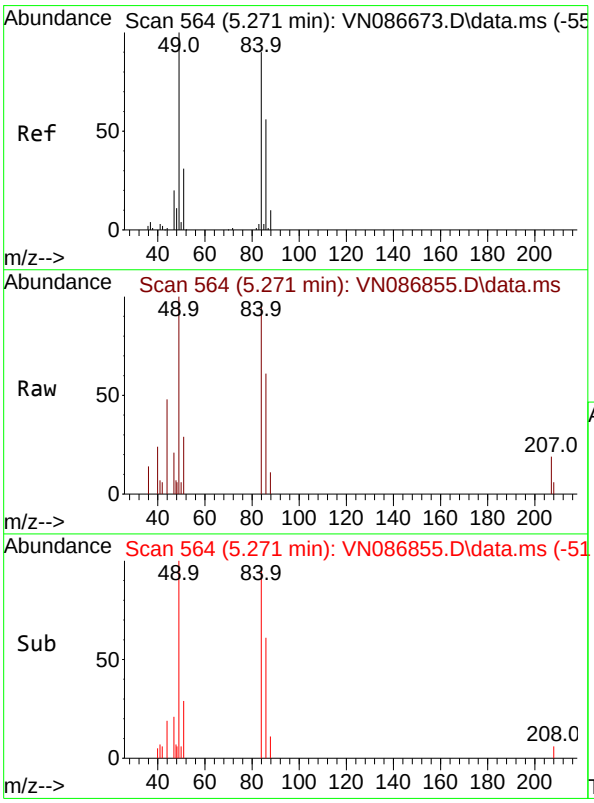
#18
Methyl Acetate
Concen: 8.860 ug/l
RT: 5.012 min Scan# 5
Delta R.T. -0.006 min
Lab File: VN086855.D
Acq: 03 Jun 2025 20:12

Instrument :
MSVOA_N
ClientSampleId :
B-187-SB01

Tgt Ion: 43 Resp: 28263

Ion	Ratio	Lower	Upper
43	100		
74	25.0	20.5	30.7

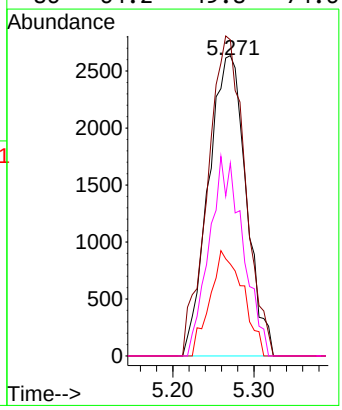


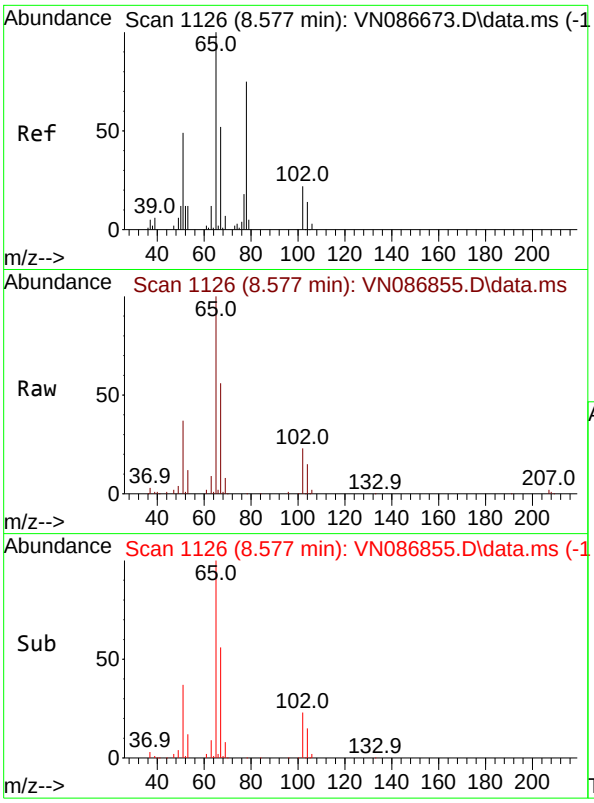


#20
Methylene Chloride
Concen: 2.824 ug/l
RT: 5.271 min Scan# 564
Delta R.T. -0.000 min
Lab File: VN086855.D
Acq: 03 Jun 2025 20:12

Tgt Ion: 84 Resp: 8493

Ion	Ratio	Lower	Upper
84	100		
49	105.2	88.8	133.2
51	30.6	27.8	41.6
86	64.2	49.8	74.6



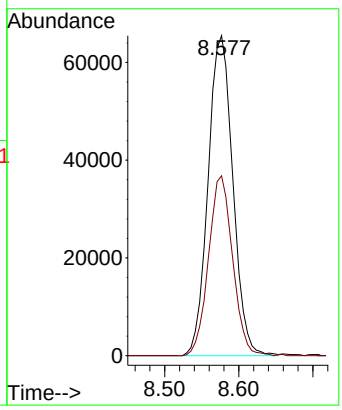


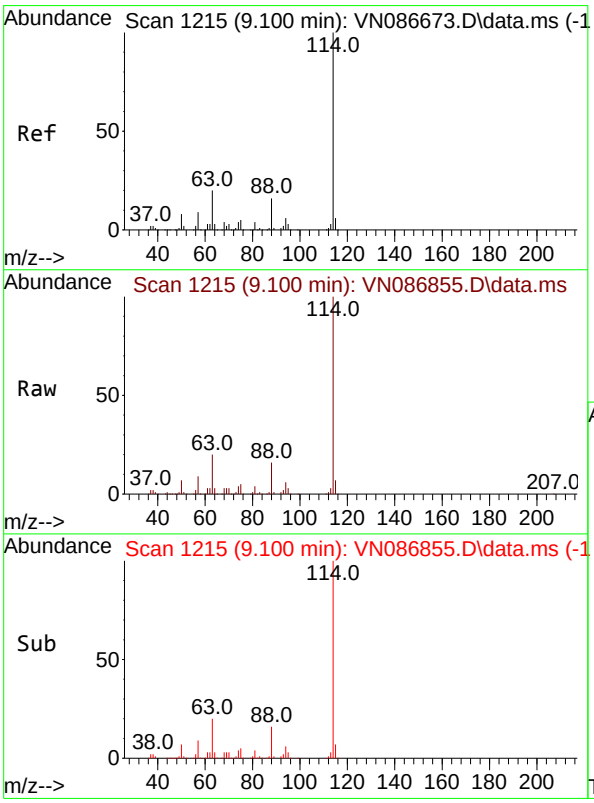
#33
1,2-Dichloroethane-d4
Concen: 49.898 ug/l
RT: 8.577 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN086855.D
Acq: 03 Jun 2025 20:12

Instrument :
MSVOA_N
ClientSampleId :
B-187-SB01

Tgt Ion: 65 Resp: 152038

Ion	Ratio	Lower	Upper
65	100		
67	54.6	0.0	106.4

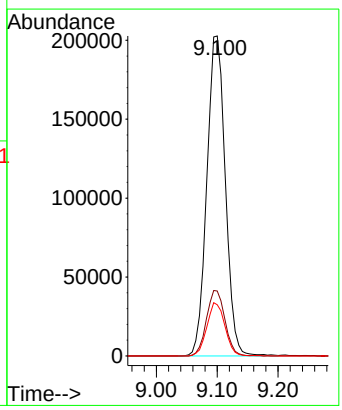


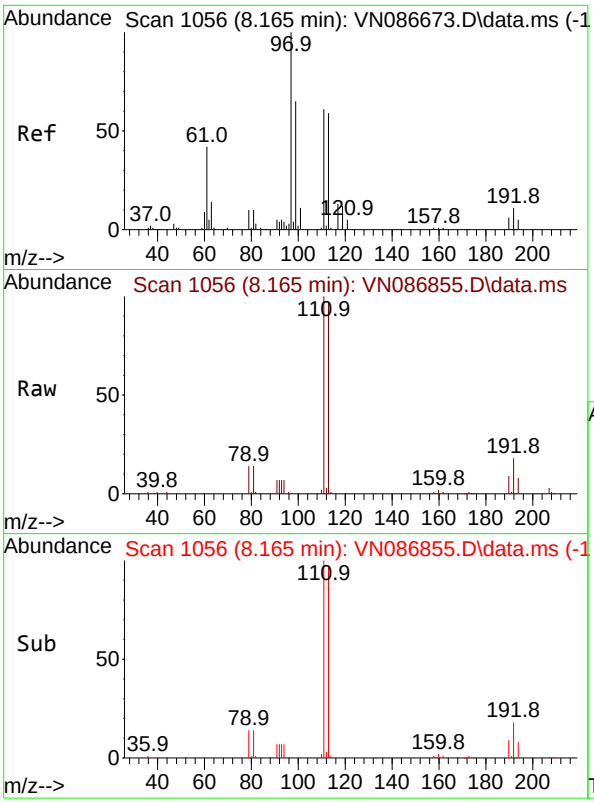


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.100 min Scan# 1215
Delta R.T. -0.000 min
Lab File: VN086855.D
Acq: 03 Jun 2025 20:12

Tgt Ion:114 Resp: 428516

Ion	Ratio	Lower	Upper
114	100		
63	20.3	0.0	40.2
88	16.0	0.0	31.2



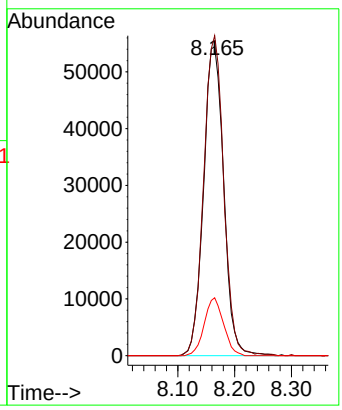


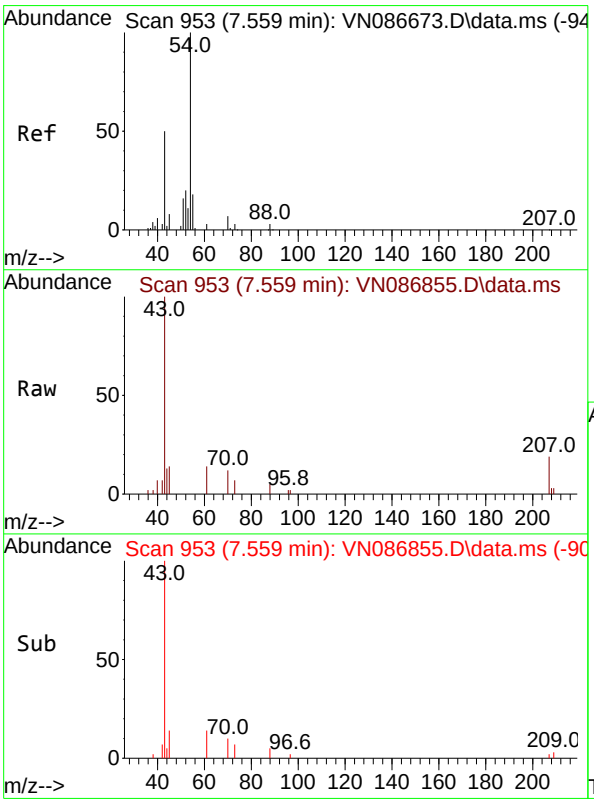
#35
Dibromofluoromethane
Concen: 52.817 ug/l
RT: 8.165 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086855.D
Acq: 03 Jun 2025 20:12

Instrument :
MSVOA_N
ClientSampleId :
B-187-SB01

Tgt Ion:113 Resp: 134789

Ion	Ratio	Lower	Upper
113	100		
111	102.4	82.2	123.2
192	17.8	13.8	20.8

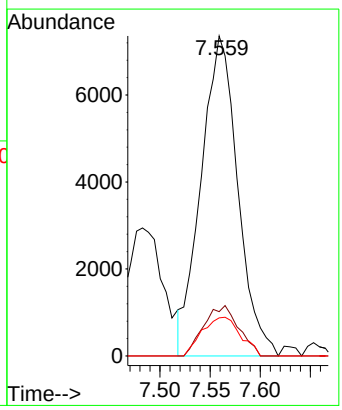


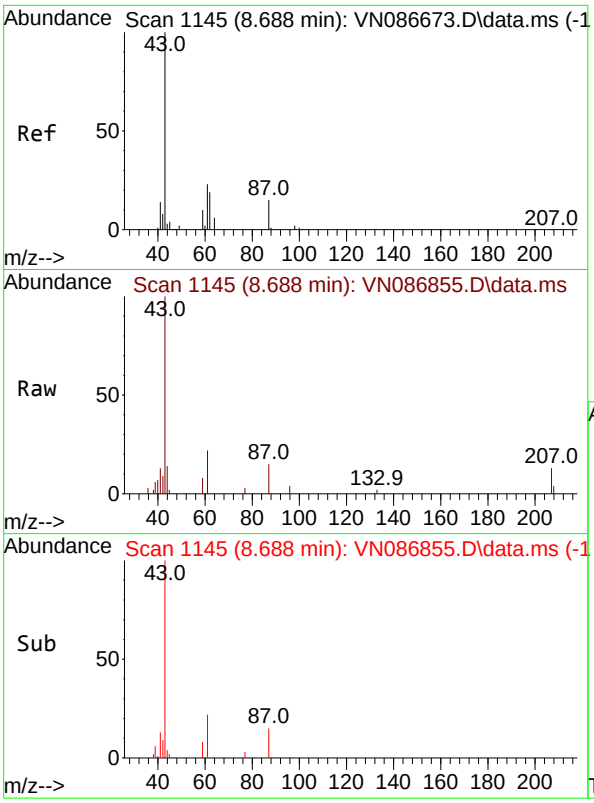


#37
Ethyl Acetate
Concen: 4.920 ug/l
RT: 7.559 min Scan# 953
Delta R.T. -0.000 min
Lab File: VN086855.D
Acq: 03 Jun 2025 20:12

Tgt Ion: 43 Resp: 18707

Ion	Ratio	Lower	Upper
43	100		
61	15.0	11.6	17.4
70	12.6	9.4	14.0



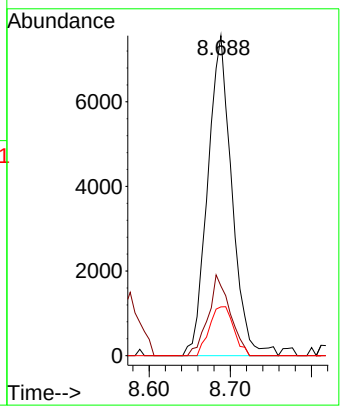


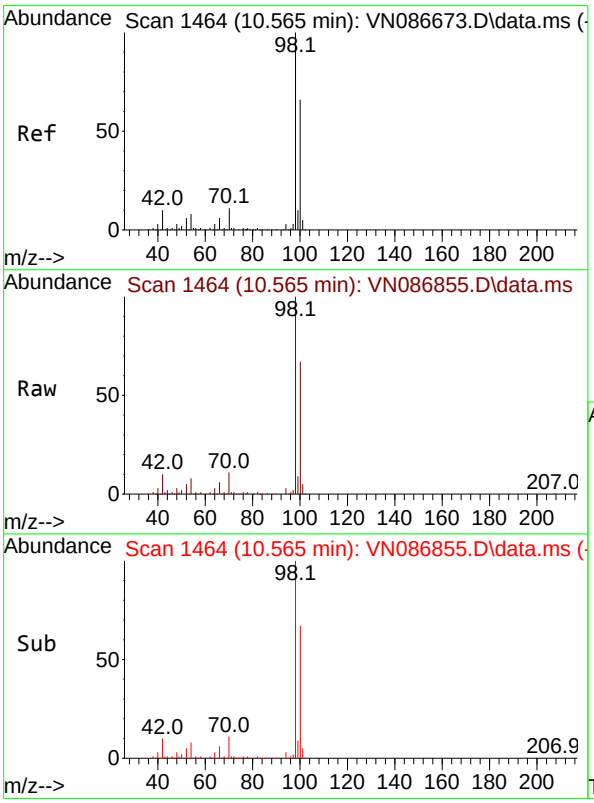
#43
Isopropyl Acetate
Concen: 2.052 ug/l
RT: 8.688 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN086855.D
Acq: 03 Jun 2025 20:12

Instrument :
MSVOA_N
ClientSampleId :
B-187-SB01

Tgt Ion: 43 Resp: 15645

Ion	Ratio	Lower	Upper
43	100		
61	22.8	21.4	32.2
87	15.4	11.1	16.7

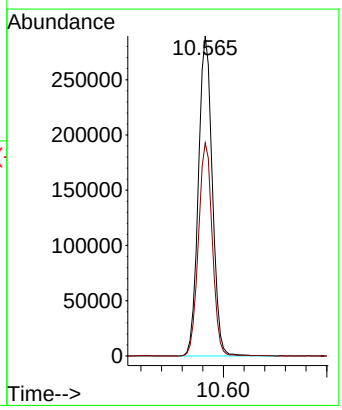


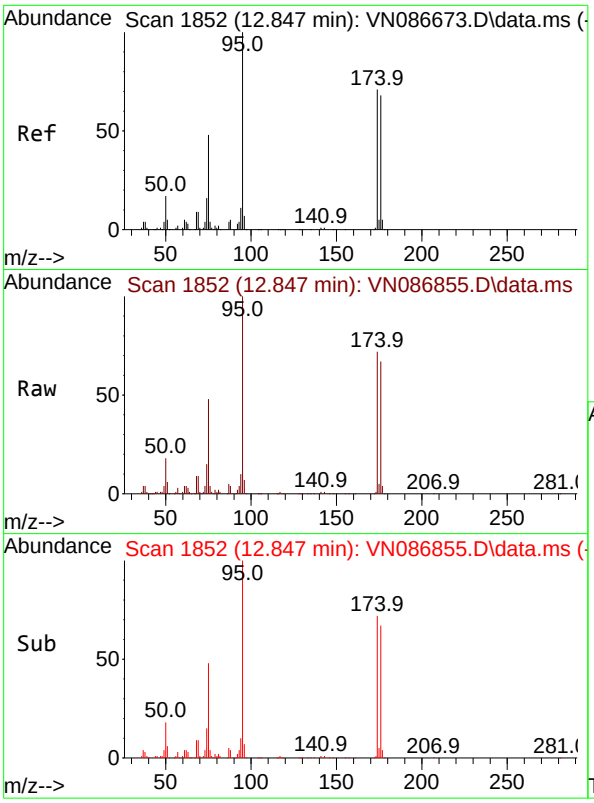


#50
Toluene-d8
Concen: 51.030 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VN086855.D
Acq: 03 Jun 2025 20:12

Tgt Ion: 98 Resp: 539671

Ion	Ratio	Lower	Upper
98	100		
100	66.5	52.9	79.3



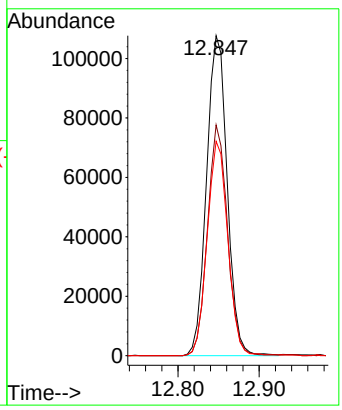


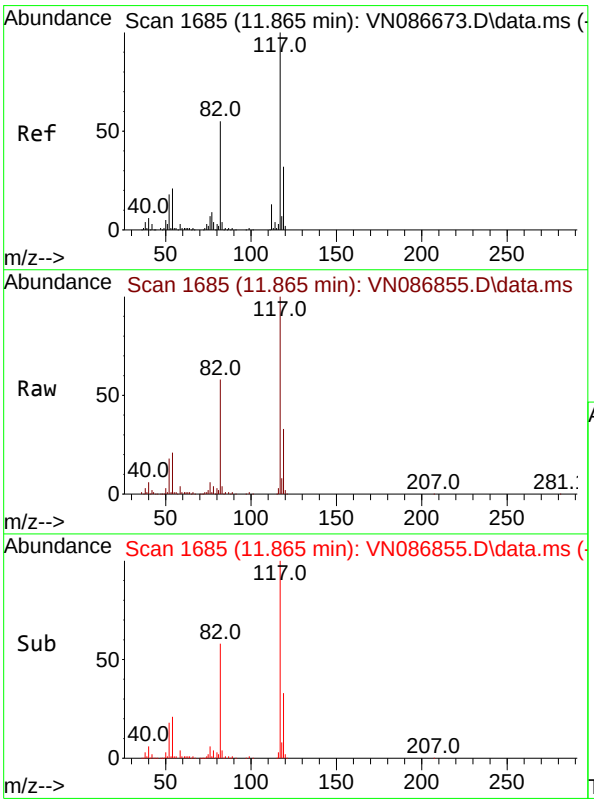
#62
4-Bromofluorobenzene
Concen: 50.943 ug/l
RT: 12.847 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086855.D
Acq: 03 Jun 2025 20:12

Instrument :
MSVOA_N
ClientSampleId :
B-187-SB01

Tgt Ion: 95 Resp: 190230

Ion	Ratio	Lower	Upper
95	100		
174	70.0	0.0	145.4
176	66.8	0.0	137.8

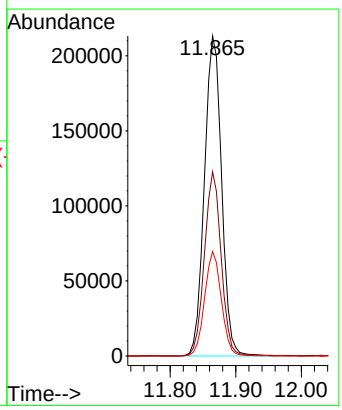


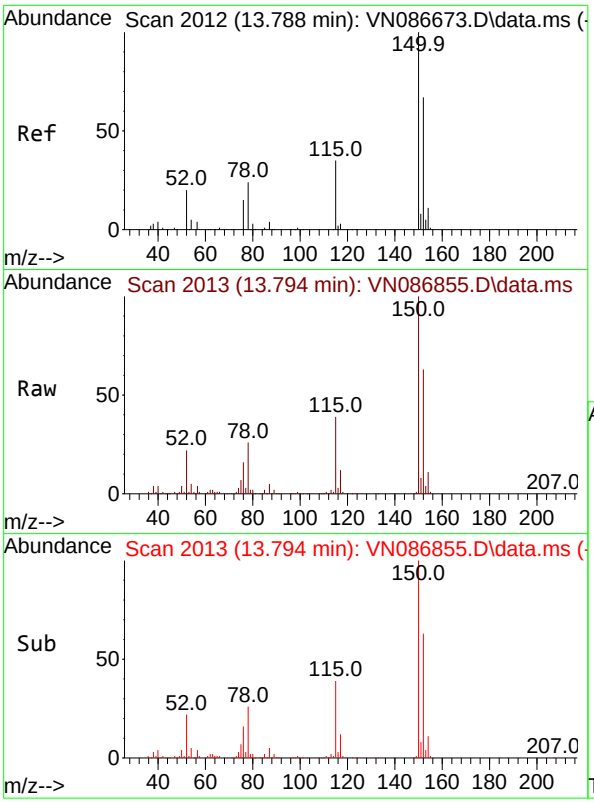


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. -0.000 min
Lab File: VN086855.D
Acq: 03 Jun 2025 20:12

Tgt Ion:117 Resp: 389120

Ion	Ratio	Lower	Upper
117	100		
82	57.5	44.2	66.2
119	32.6	25.4	38.2



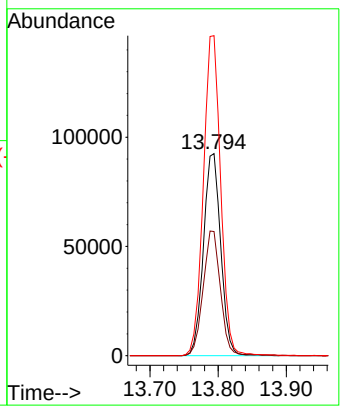


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.794 min Scan# 2
Delta R.T. 0.006 min
Lab File: VN086855.D
Acq: 03 Jun 2025 20:12

Instrument :
MSVOA_N
ClientSampleId :
B-187-SB01

Tgt Ion:152 Resp: 163382

Ion	Ratio	Lower	Upper
152	100		
115	61.6	30.0	90.1
150	158.5	0.0	347.8



Raw Data: **VN086856.D**

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	05/31/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	06/02/25
Client Sample ID:	B-187-SB02	SDG No.:	Q2177
Lab Sample ID:	Q2177-05	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:	Prep Date	Date Analyzed	Prep Batch ID
VN086856.D	1		06/03/25 20:36	VN060325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-01-4	Vinyl Chloride	0.26	U	0.26	5.00	ug/L
75-35-4	1,1-Dichloroethene	0.23	U	0.23	5.00	ug/L
78-93-3	2-Butanone	10.3	J	0.98	25.0	ug/L
56-23-5	Carbon Tetrachloride	0.25	U	0.25	5.00	ug/L
67-66-3	Chloroform	0.25	U	0.25	5.00	ug/L
71-43-2	Benzene	0.15	U	0.15	5.00	ug/L
107-06-2	1,2-Dichloroethane	0.22	U	0.22	5.00	ug/L
79-01-6	Trichloroethene	0.090	U	0.090	5.00	ug/L
127-18-4	Tetrachloroethene	0.23	U	0.23	5.00	ug/L
108-90-7	Chlorobenzene	0.12	U	0.12	5.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	50.7		70 (74) - 130 (125)	101%	SPK: 50
1868-53-7	Dibromofluoromethane	53.1		70 (75) - 130 (124)	106%	SPK: 50
2037-26-5	Toluene-d8	52.2		70 (86) - 130 (113)	104%	SPK: 50
460-00-4	4-Bromofluorobenzene	53.2		70 (77) - 130 (121)	106%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	221000	8.218			
540-36-3	1,4-Difluorobenzene	428000	9.1			
3114-55-4	Chlorobenzene-d5	405000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	181000	13.794			

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN060325\
Data File : VN086856.D
Acq On : 03 Jun 2025 20:36
Operator : JC\MD
Sample : Q2177-05
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 23 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
B-187-SB02

Quant Time: Jun 04 03:34:14 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N051625W.M
Quant Title : SW846 8260
QLast Update : Sat May 17 00:46:13 2025
Response via : Initial Calibration

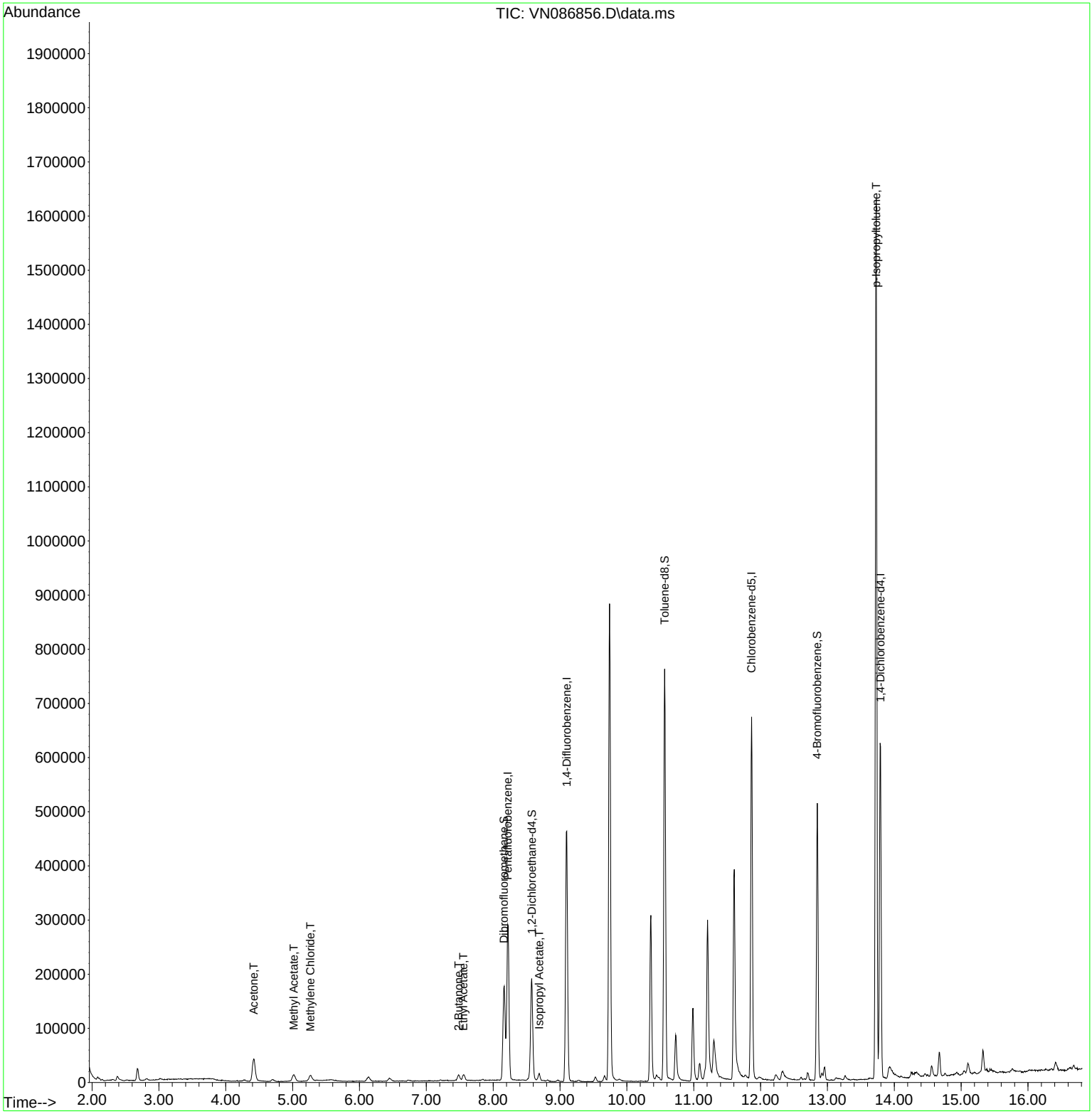
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.218	168	221135	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	428494	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	404884	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	181011	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	154873	50.684	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 101.360%			
35) Dibromofluoromethane	8.159	113	135623	53.147	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 106.300%			
50) Toluene-d8	10.565	98	551649	52.165	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 104.340%			
62) 4-Bromofluorobenzene	12.847	95	198824	53.247	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 106.500%			
Target Compounds						Qvalue
16) Acetone	4.418	43	81184	71.025	ug/l	95
18) Methyl Acetate	5.018	43	27122	8.478	ug/l	98
20) Methylene Chloride	5.265	84	8811	2.921	ug/l	92
25) 2-Butanone	7.483	43	18128	10.263	ug/l	97
37) Ethyl Acetate	7.553	43	16457	4.328	ug/l	98
43) Isopropyl Acetate	8.688	43	13913	1.825	ug/l	94
86) p-Isopropyltoluene	13.729	119	985932	91.836	ug/l	100

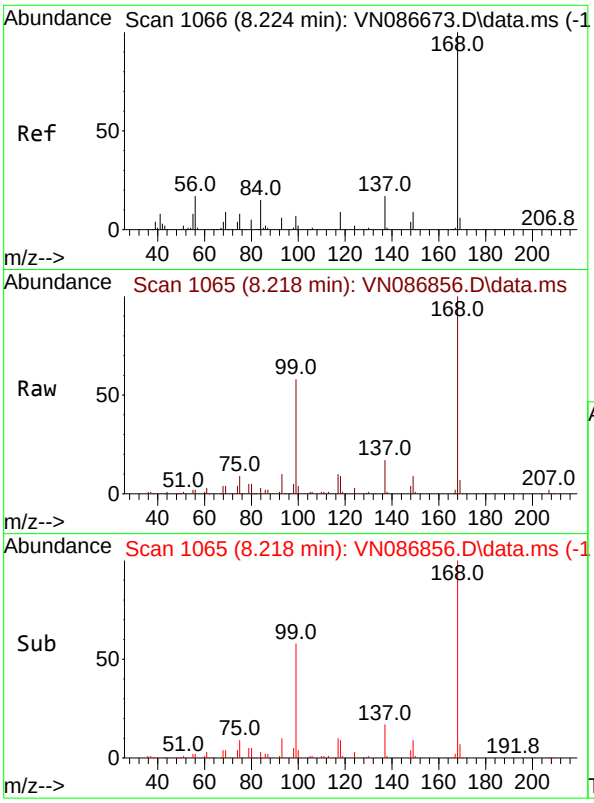
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN060325\
Data File : VN086856.D
Acq On : 03 Jun 2025 20:36
Operator : JC\MD
Sample : Q2177-05
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 23 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
B-187-SB02

Quant Time: Jun 04 03:34:14 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N051625W.M
Quant Title : SW846 8260
QLast Update : Sat May 17 00:46:13 2025
Response via : Initial Calibration



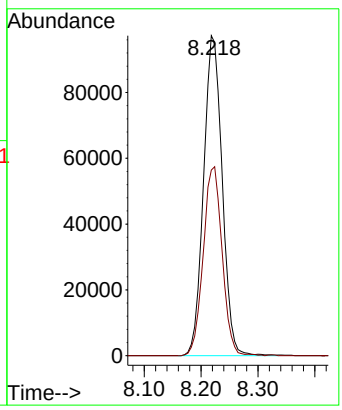


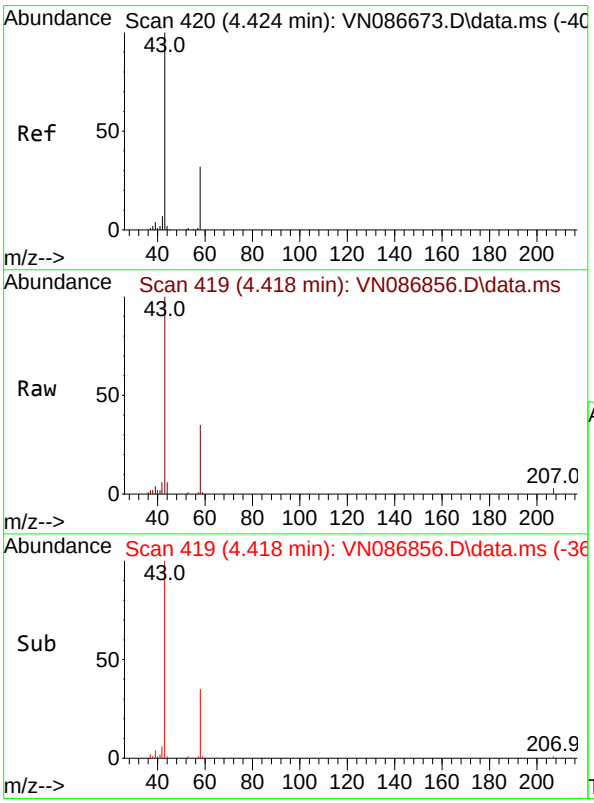
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.218 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN086856.D
Acq: 03 Jun 2025 20:36

Instrument :
MSVOA_N
ClientSampleId :
B-187-SB02

Tgt Ion:168 Resp: 221135

Ion	Ratio	Lower	Upper
168	100		
99	58.0	47.0	70.4

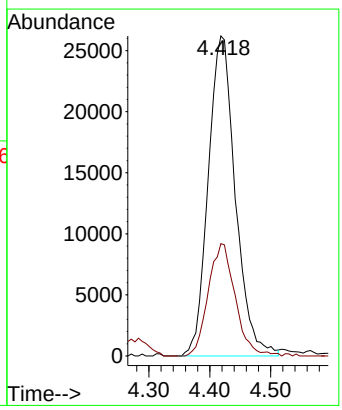


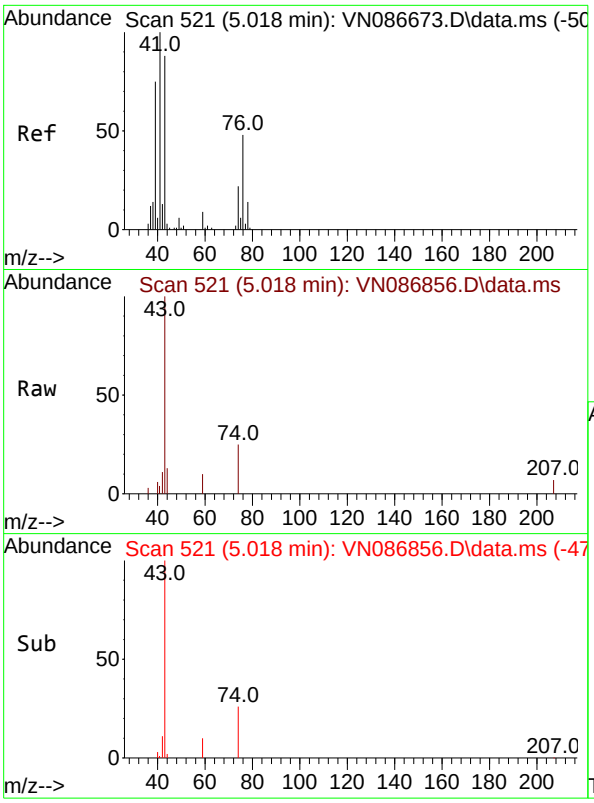


#16
Acetone
Concen: 71.025 ug/l
RT: 4.418 min Scan# 419
Delta R.T. -0.006 min
Lab File: VN086856.D
Acq: 03 Jun 2025 20:36

Tgt Ion: 43 Resp: 81184

Ion	Ratio	Lower	Upper
43	100		
58	35.1	25.8	38.6



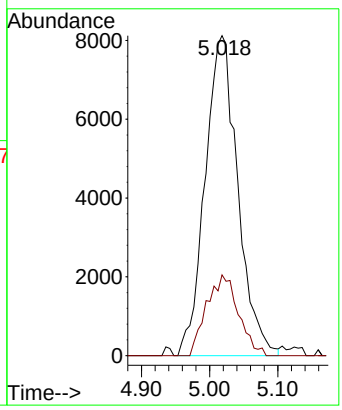


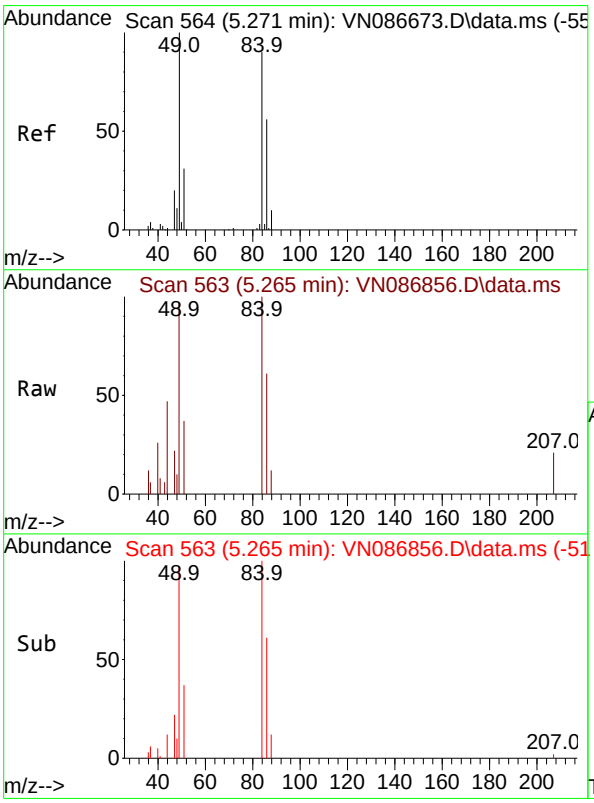
#18
Methyl Acetate
Concen: 8.478 ug/l
RT: 5.018 min Scan# 5
Delta R.T. 0.000 min
Lab File: VN086856.D
Acq: 03 Jun 2025 20:36

Instrument :
MSVOA_N
ClientSampleId :
B-187-SB02

Tgt Ion: 43 Resp: 27122

Ion	Ratio	Lower	Upper
43	100		
74	24.5	20.5	30.7

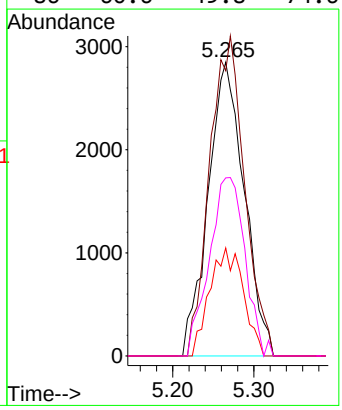


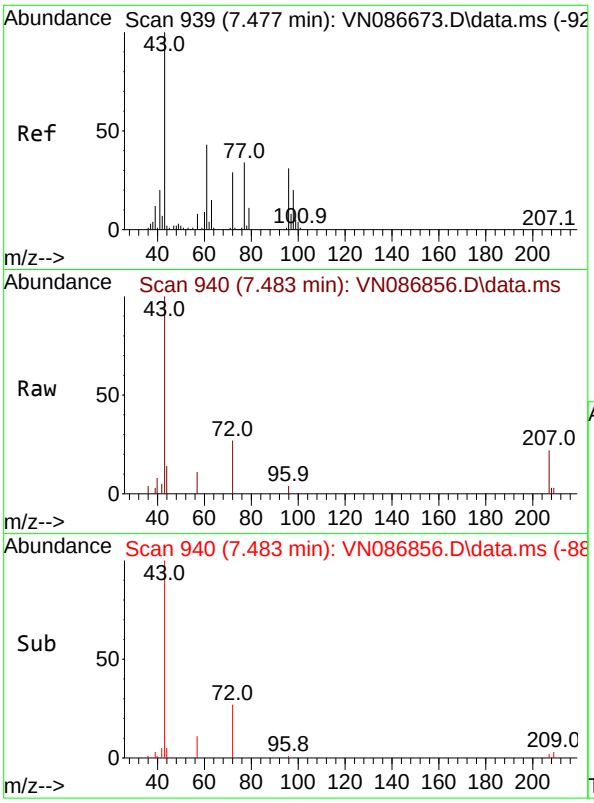


#20
Methylene Chloride
Concen: 2.921 ug/l
RT: 5.265 min Scan# 563
Delta R.T. -0.006 min
Lab File: VN086856.D
Acq: 03 Jun 2025 20:36

Tgt Ion: 84 Resp: 8811

Ion	Ratio	Lower	Upper
84	100		
49	97.2	88.8	133.2
51	36.8	27.8	41.6
86	60.6	49.8	74.6



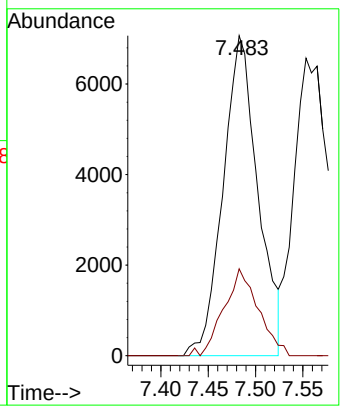


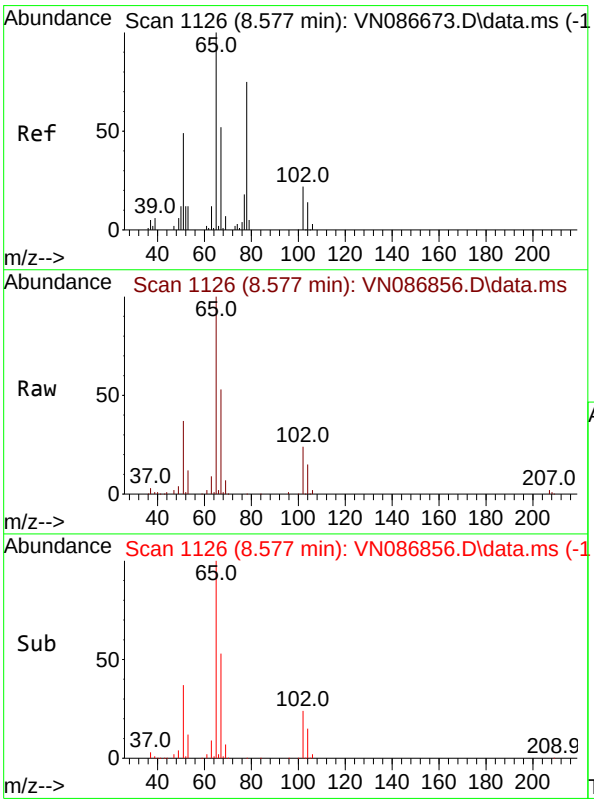
#25
2-Butanone
Concen: 10.263 ug/l
RT: 7.483 min Scan# 94
Delta R.T. 0.006 min
Lab File: VN086856.D
Acq: 03 Jun 2025 20:36

Instrument :
MSVOA_N
ClientSampleId :
B-187-SB02

Tgt Ion: 43 Resp: 18128

Ion	Ratio	Lower	Upper
43	100		
72	27.2	23.1	34.7

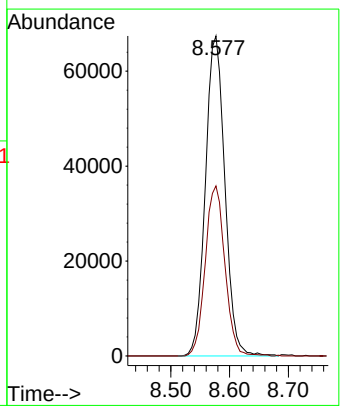


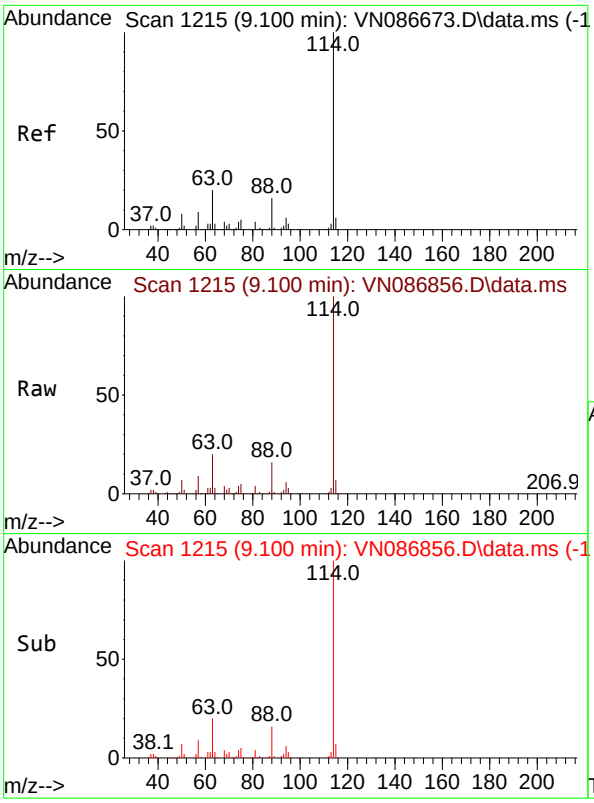


#33
1,2-Dichloroethane-d4
Concen: 50.684 ug/l
RT: 8.577 min Scan# 1126
Delta R.T. 0.000 min
Lab File: VN086856.D
Acq: 03 Jun 2025 20:36

Tgt Ion: 65 Resp: 154873

Ion	Ratio	Lower	Upper
65	100		
67	53.7	0.0	106.4



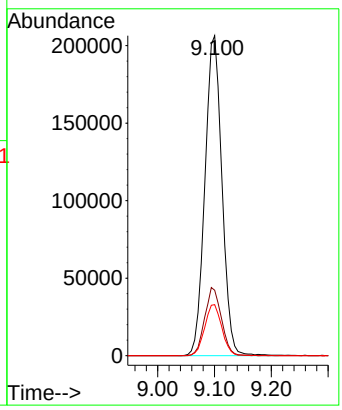


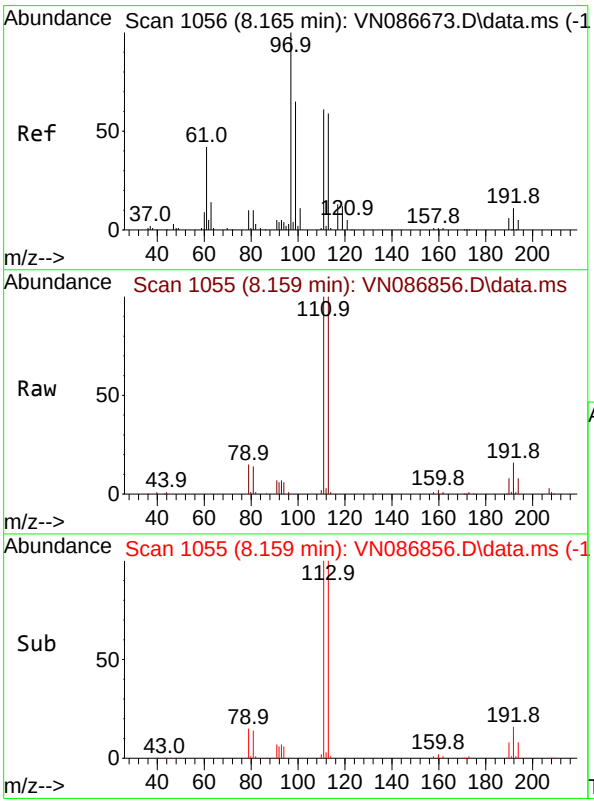
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.100 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN086856.D
Acq: 03 Jun 2025 20:36

Instrument :
MSVOA_N
ClientSampleId :
B-187-SB02

Tgt Ion:114 Resp: 428494

Ion	Ratio	Lower	Upper
114	100		
63	20.4	0.0	40.2
88	15.9	0.0	31.2

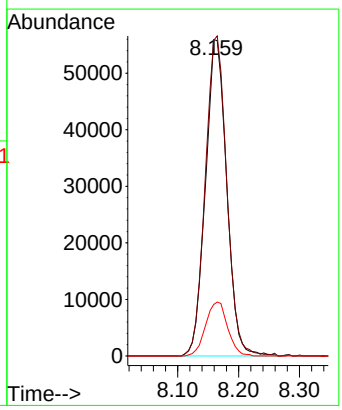


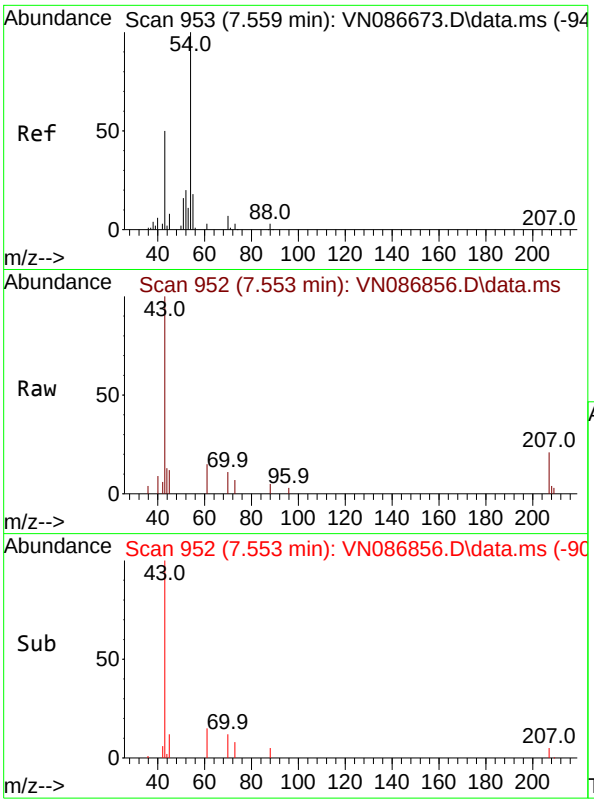


#35
Dibromofluoromethane
Concen: 53.147 ug/l
RT: 8.159 min Scan# 1055
Delta R.T. -0.006 min
Lab File: VN086856.D
Acq: 03 Jun 2025 20:36

Tgt Ion:113 Resp: 135623

Ion	Ratio	Lower	Upper
113	100		
111	102.4	82.2	123.2
192	17.6	13.8	20.8



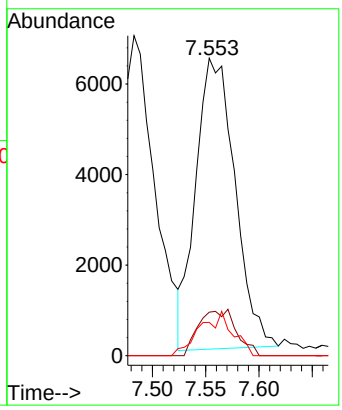


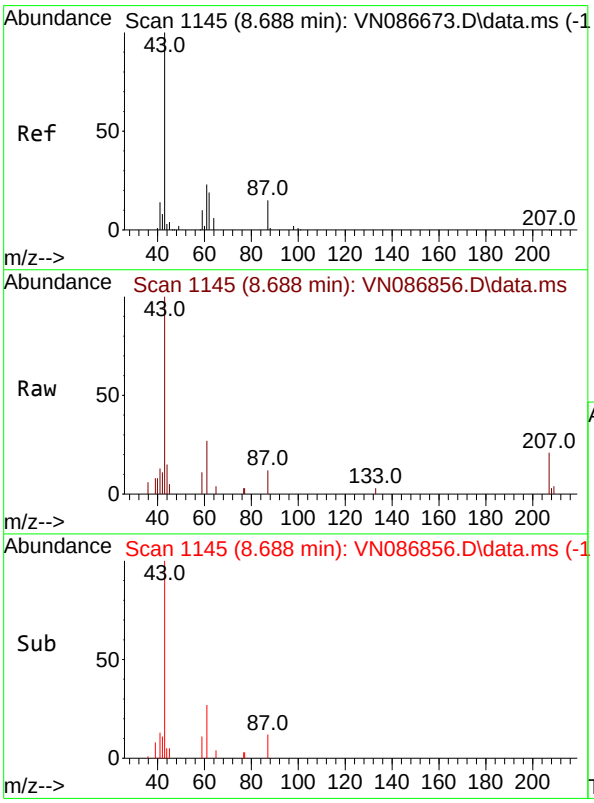
#37
Ethyl Acetate
Concen: 4.328 ug/l
RT: 7.553 min Scan# 9
Delta R.T. -0.006 min
Lab File: VN086856.D
Acq: 03 Jun 2025 20:36

Instrument :
MSVOA_N
ClientSampleId :
B-187-SB02

Tgt Ion: 43 Resp: 16457

Ion	Ratio	Lower	Upper
43	100		
61	15.1	11.6	17.4
70	12.8	9.4	14.0

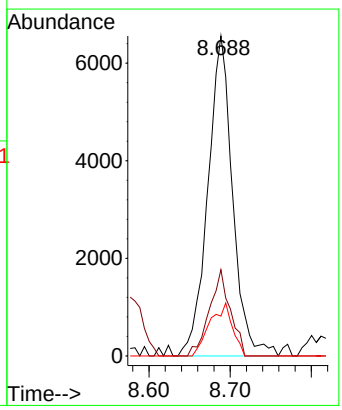


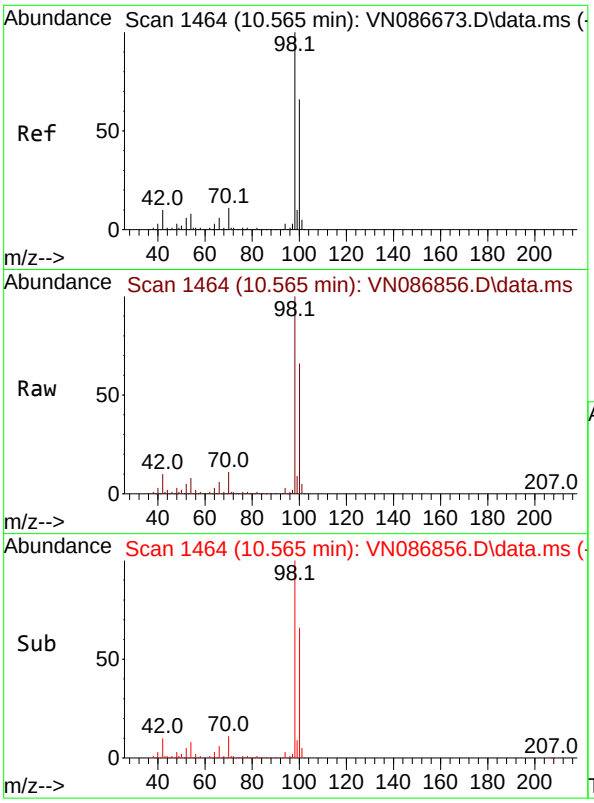


#43
Isopropyl Acetate
Concen: 1.825 ug/l
RT: 8.688 min Scan# 1145
Delta R.T. 0.000 min
Lab File: VN086856.D
Acq: 03 Jun 2025 20:36

Tgt Ion: 43 Resp: 13913

Ion	Ratio	Lower	Upper
43	100		
61	22.6	21.4	32.2
87	15.0	11.1	16.7



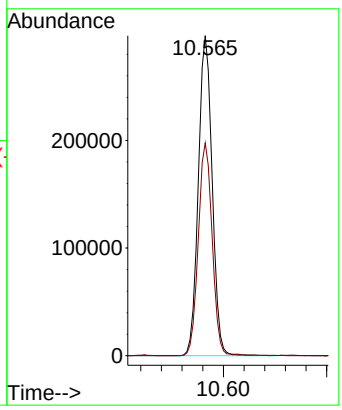


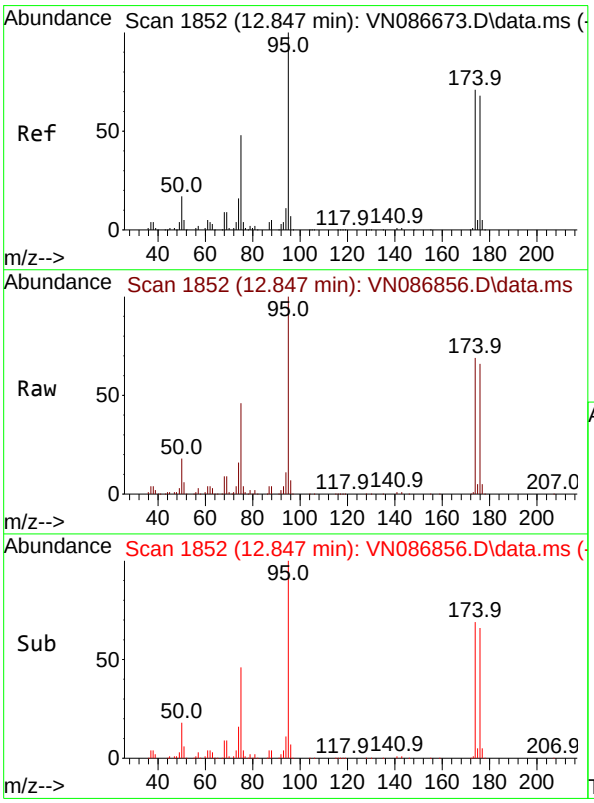
#50
Toluene-d8
Concen: 52.165 ug/l
RT: 10.565 min Scan# 14
Delta R.T. 0.000 min
Lab File: VN086856.D
Acq: 03 Jun 2025 20:36

Instrument :
MSVOA_N
ClientSampleId :
B-187-SB02

Tgt Ion: 98 Resp: 551649

Ion	Ratio	Lower	Upper
98	100		
100	66.7	52.9	79.3

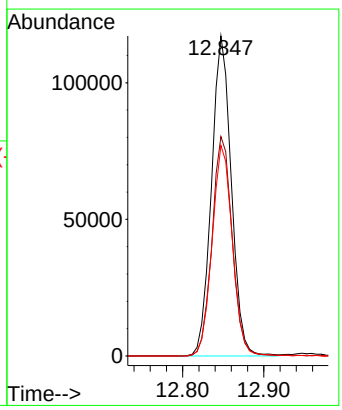


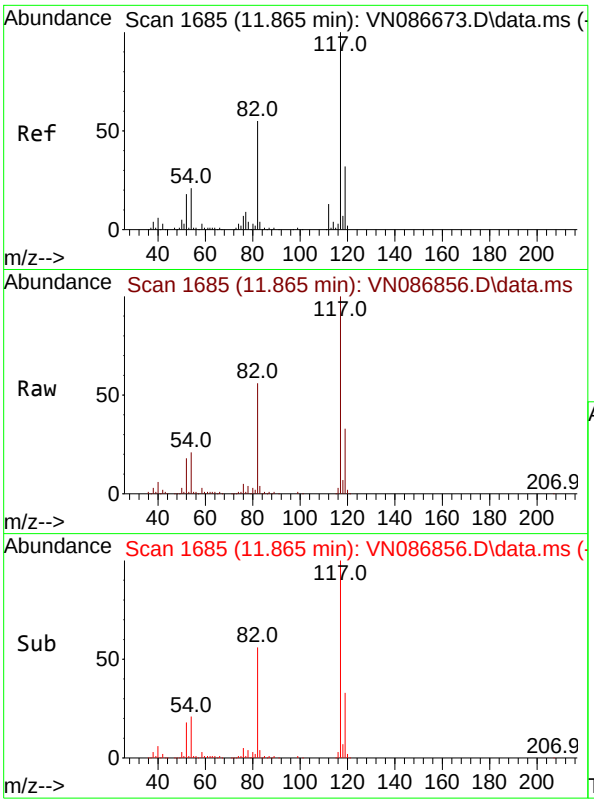


#62
4-Bromofluorobenzene
Concen: 53.247 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN086856.D
Acq: 03 Jun 2025 20:36

Tgt Ion: 95 Resp: 198824

Ion	Ratio	Lower	Upper
95	100		
174	69.4	0.0	145.4
176	67.2	0.0	137.8



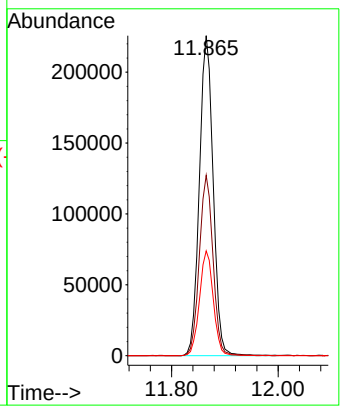


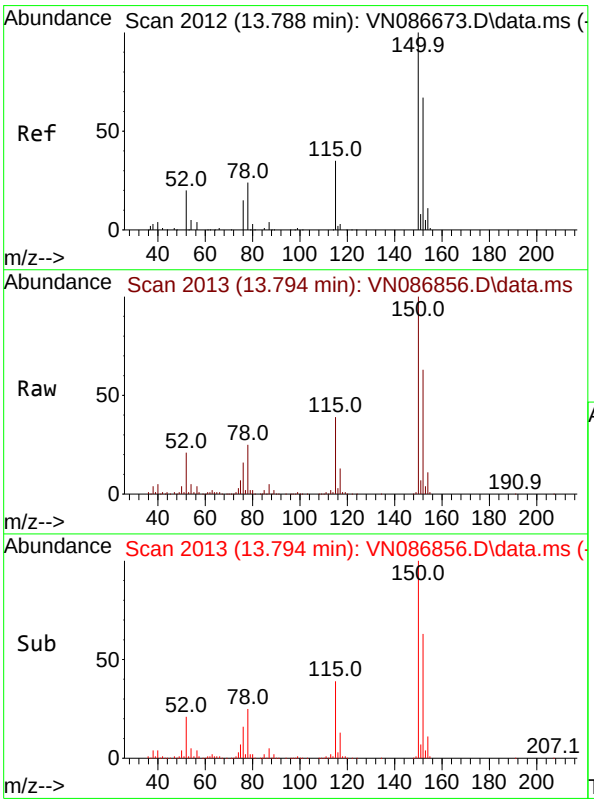
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN086856.D
Acq: 03 Jun 2025 20:36

Instrument :
MSVOA_N
ClientSampleId :
B-187-SB02

Tgt Ion:117 Resp: 404884

Ion	Ratio	Lower	Upper
117	100		
82	56.4	44.2	66.2
119	32.8	25.4	38.2

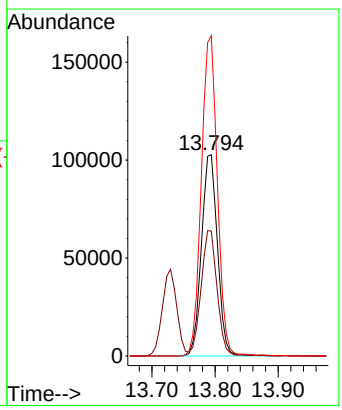


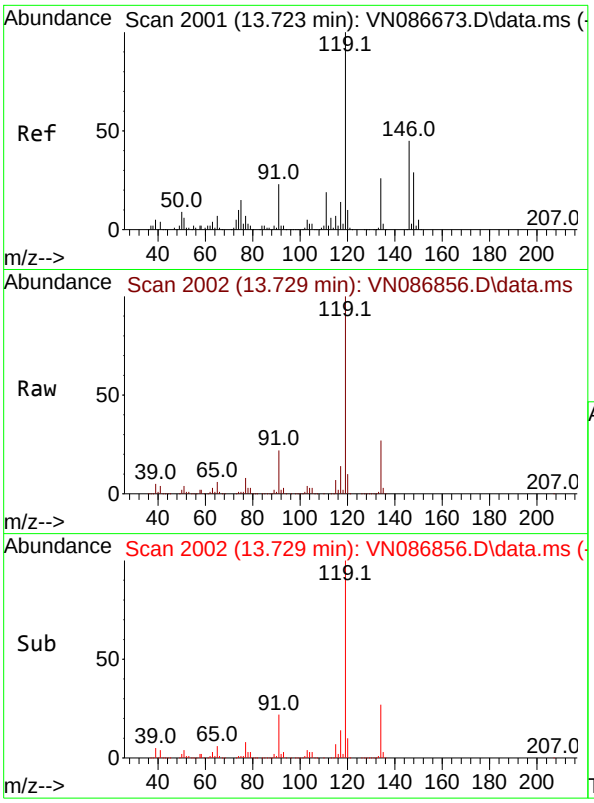


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.794 min Scan# 2013
Delta R.T. 0.006 min
Lab File: VN086856.D
Acq: 03 Jun 2025 20:36

Tgt Ion:152 Resp: 181011

Ion	Ratio	Lower	Upper
152	100		
115	61.8	30.0	90.1
150	159.1	0.0	347.8



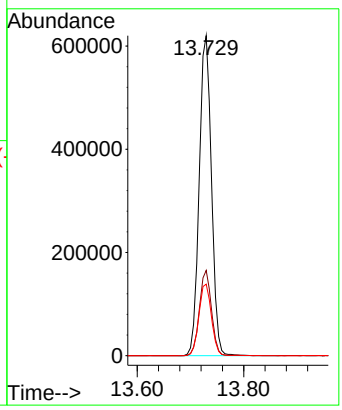


#86
p-Isopropyltoluene
Concen: 91.836 ug/l
RT: 13.729 min Scan# 2
Delta R.T. 0.006 min
Lab File: VN086856.D
Acq: 03 Jun 2025 20:36

Instrument :
MSVOA_N
ClientSampleId :
B-187-SB02

Tgt Ion:119 Resp: 985932

Ion	Ratio	Lower	Upper
119	100		
134	26.3	13.1	39.1
91	22.9	11.5	34.5



Raw Data: **VN086857.D**

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	05/31/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	06/02/25
Client Sample ID:	B-202-SB01	SDG No.:	Q2177
Lab Sample ID:	Q2177-07	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:	Prep Date	Date Analyzed	Prep Batch ID
VN086857.D	1		06/03/25 21:00	VN060325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-01-4	Vinyl Chloride	0.26	U	0.26	5.00	ug/L
75-35-4	1,1-Dichloroethene	0.23	U	0.23	5.00	ug/L
78-93-3	2-Butanone	0.98	U	0.98	25.0	ug/L
56-23-5	Carbon Tetrachloride	0.25	U	0.25	5.00	ug/L
67-66-3	Chloroform	0.25	U	0.25	5.00	ug/L
71-43-2	Benzene	0.15	U	0.15	5.00	ug/L
107-06-2	1,2-Dichloroethane	0.22	U	0.22	5.00	ug/L
79-01-6	Trichloroethene	0.090	U	0.090	5.00	ug/L
127-18-4	Tetrachloroethene	0.23	U	0.23	5.00	ug/L
108-90-7	Chlorobenzene	0.12	U	0.12	5.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	51.5		70 (74) - 130 (125)	103%	SPK: 50
1868-53-7	Dibromofluoromethane	53.2		70 (75) - 130 (124)	106%	SPK: 50
2037-26-5	Toluene-d8	52.0		70 (86) - 130 (113)	104%	SPK: 50
460-00-4	4-Bromofluorobenzene	54.6		70 (77) - 130 (121)	109%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	215000	8.218			
540-36-3	1,4-Difluorobenzene	418000	9.1			
3114-55-4	Chlorobenzene-d5	403000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	184000	13.788			

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN060325\
Data File : VN086857.D
Acq On : 03 Jun 2025 21:00
Operator : JC\MD
Sample : Q2177-07
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Jun 04 02:07:39 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N051625W.M
Quant Title : SW846 8260
QLast Update : Sat May 17 00:46:13 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
B-202-SB01

Manual Integrations APPROVED

Reviewed By :John Carlone
06/04/2025
Supervised By :Mahesh Dadoda
06/04/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.218	168	214739	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	418395	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	402557	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	183854	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	152863	51.516	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 103.040%			
35) Dibromofluoromethane	8.165	113	132479	53.168	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 106.340%			
50) Toluene-d8	10.565	98	536776	51.984	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 103.960%			
62) 4-Bromofluorobenzene	12.847	95	198933	54.562	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 109.120%			
Target Compounds						Qvalue
16) Acetone	4.418	43	55602	50.093	ug/l	96
18) Methyl Acetate	5.024	43	27672	8.907	ug/l	99
20) Methylene Chloride	5.277	84	8210m	2.803	ug/l	
37) Ethyl Acetate	7.559	43	20063	5.404	ug/l	99
43) Isopropyl Acetate	8.683	43	15113	2.031	ug/l	94

(#) = qualifier out of range (m) = manual integration (+) = signals summed

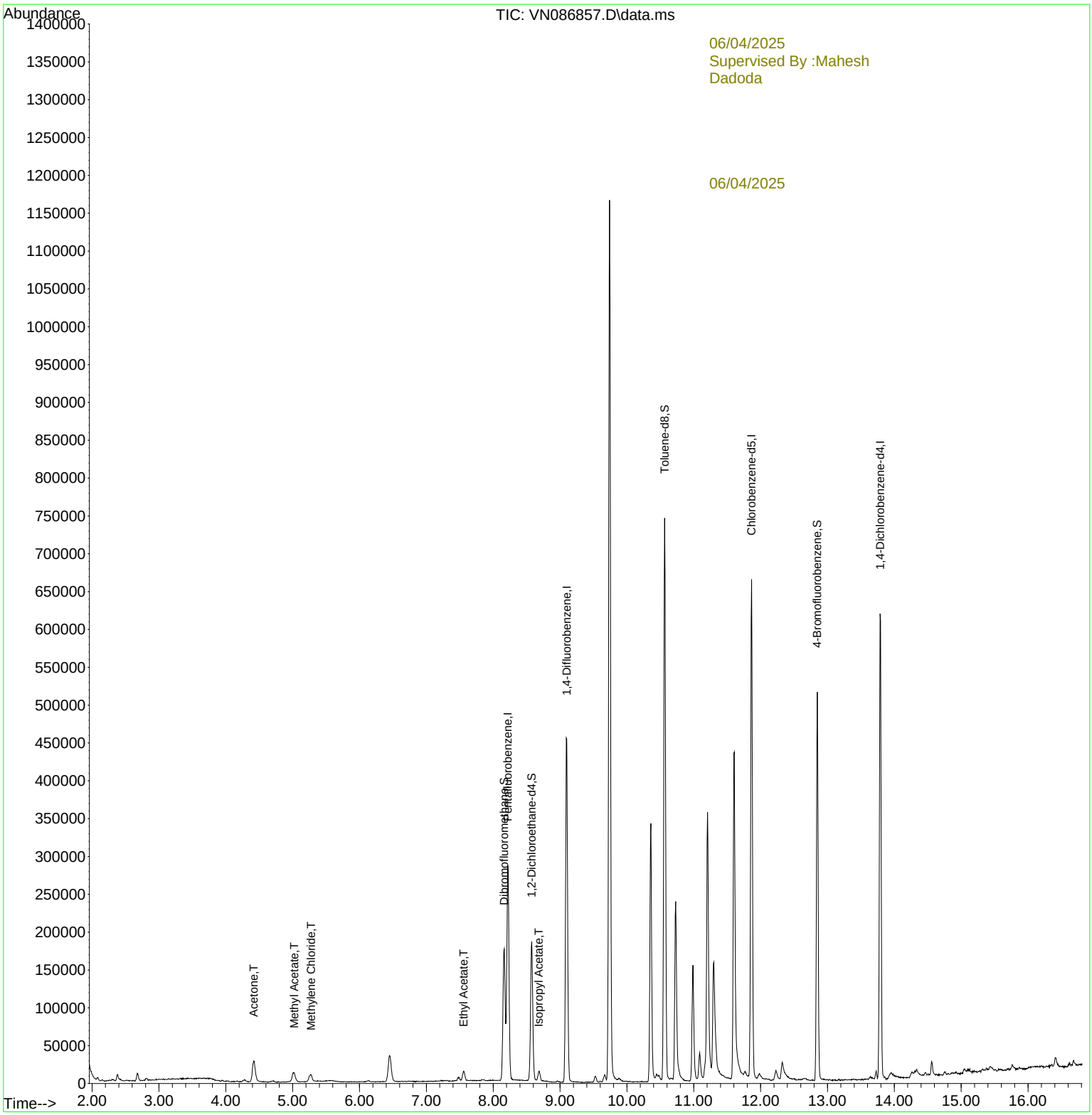
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN060325\
Data File : VN086857.D
Acq On : 03 Jun 2025 21:00
Operator : JC\MD
Sample : Q2177-07
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 24 Sample Multiplier: 1

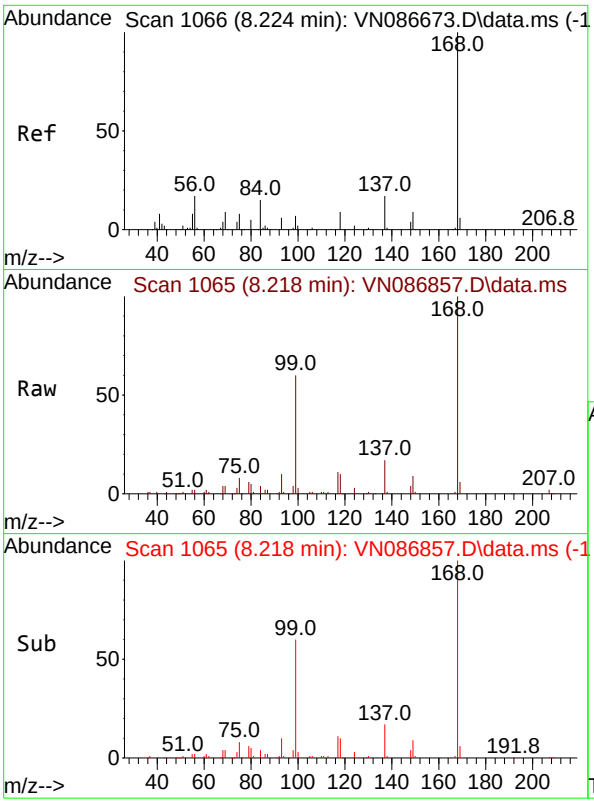
Quant Time: Jun 04 02:07:39 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N051625W.M
Quant Title : SW846 8260
QLast Update : Sat May 17 00:46:13 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
B-202-SB01

Manual Integrations APPROVED

Reviewed By :John Carlone

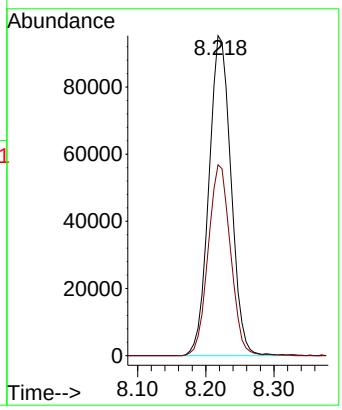




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.218 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN086857.D
Acq: 03 Jun 2025 21:00

Tgt Ion:168 Resp: 214739

Ion	Ratio	Lower	Upper
168	100		
99	59.6	47.0	70.4



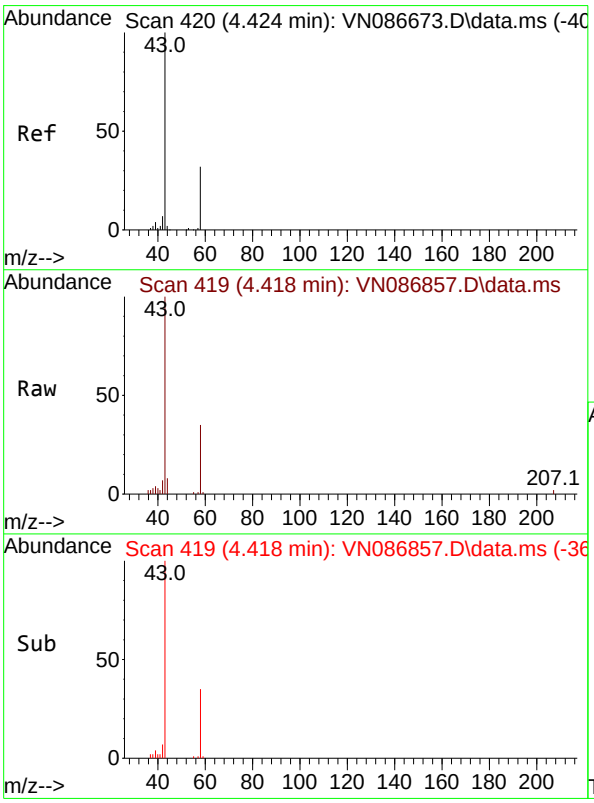
Instrument :
MSVOA_N
ClientSampleId :
B-202-SB01

Manual Integrations
APPROVED

Reviewed By :John Carlone

06/04/2025
Supervised By :Mahesh Dadoda

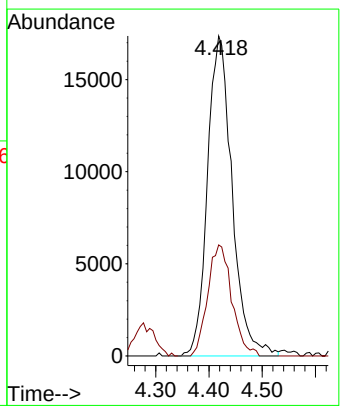
06/04/2025

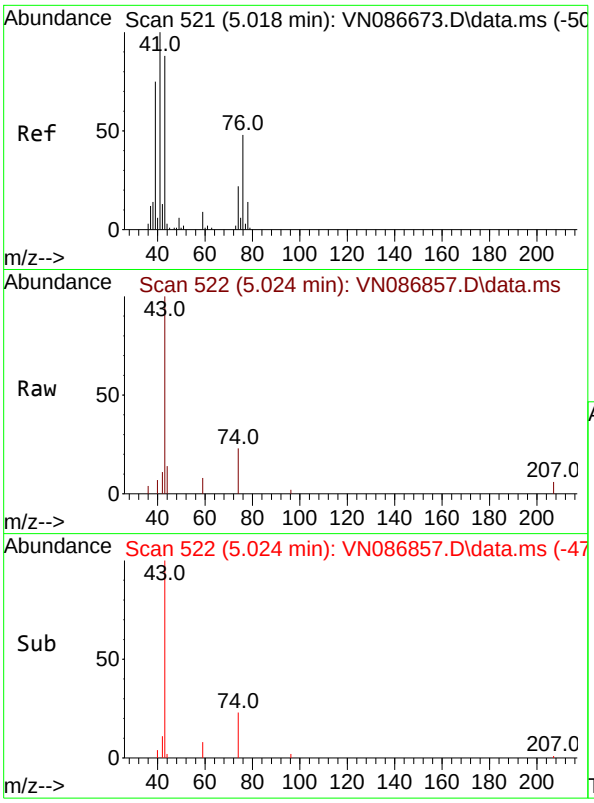


#16
Acetone
Concen: 50.093 ug/l
RT: 4.418 min Scan# 419
Delta R.T. -0.006 min
Lab File: VN086857.D
Acq: 03 Jun 2025 21:00

Tgt Ion: 43 Resp: 55602

Ion	Ratio	Lower	Upper
43	100		
58	34.7	25.8	38.6

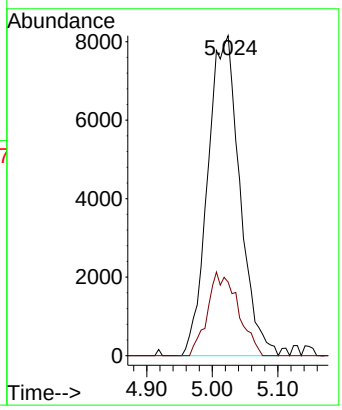




#18
Methyl Acetate
Concen: 8.907 ug/l
RT: 5.024 min Scan# 5
Delta R.T. 0.006 min
Lab File: VN086857.D
Acq: 03 Jun 2025 21:00

Tgt Ion: 43 Resp: 2767

Ion	Ratio	Lower	Upper
43	100		
74	24.9	20.5	30.7



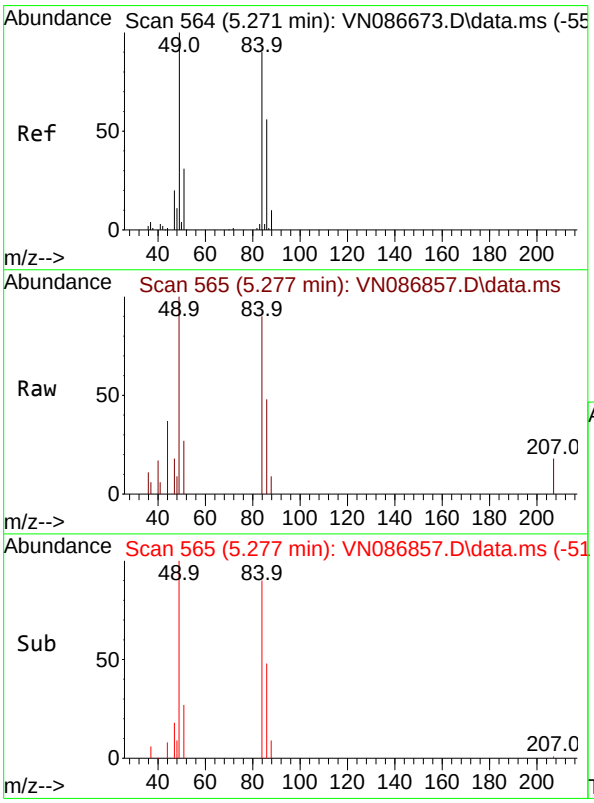
Instrument :
MSVOA_N
ClientSampleId :
B-202-SB01

Manual Integrations
APPROVED

Reviewed By :John Carlone

06/04/2025
Supervised By :Mahesh Dadoda

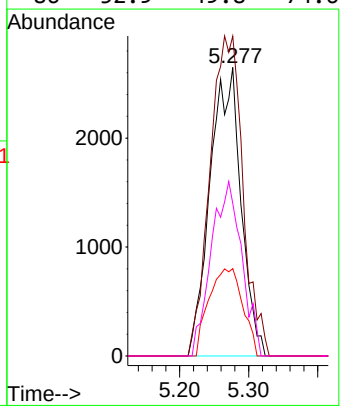
06/04/2025

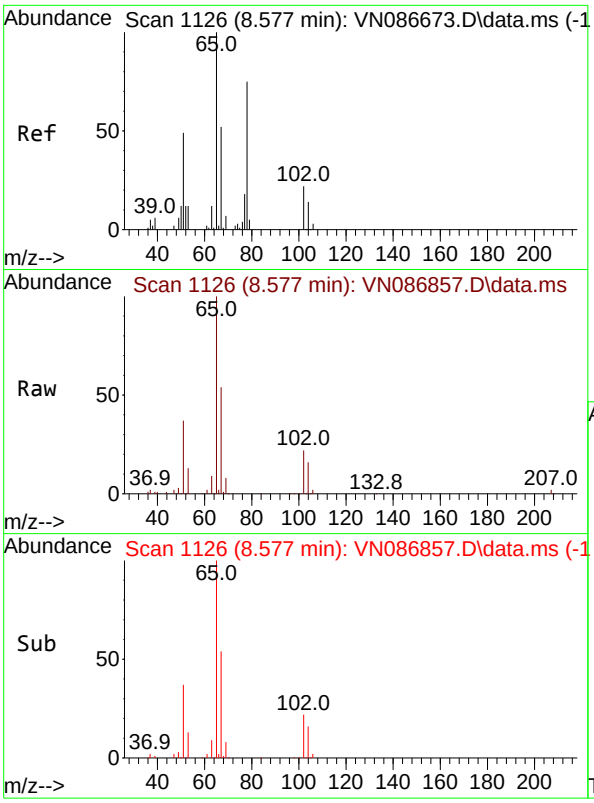


#20
Methylene Chloride
Concen: 2.803 ug/l m
RT: 5.277 min Scan# 565
Delta R.T. 0.006 min
Lab File: VN086857.D
Acq: 03 Jun 2025 21:00

Tgt Ion: 84 Resp: 8210

Ion	Ratio	Lower	Upper
84	100		
49	110.9	88.8	133.2
51	30.3	27.8	41.6
86	52.9	49.8	74.6

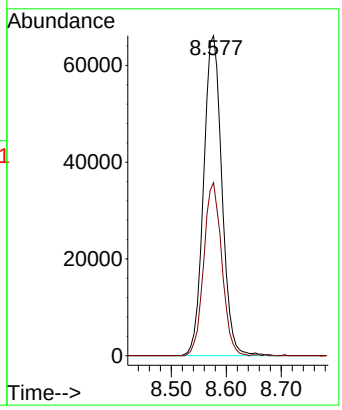




#33
1,2-Dichloroethane-d4
Concen: 51.516 ug/l
RT: 8.577 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN086857.D
Acq: 03 Jun 2025 21:00

Tgt Ion: 65 Resp: 15286

Ion	Ratio	Lower	Upper
65	100		
67	53.3	0.0	106.4



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ClientSampleId :
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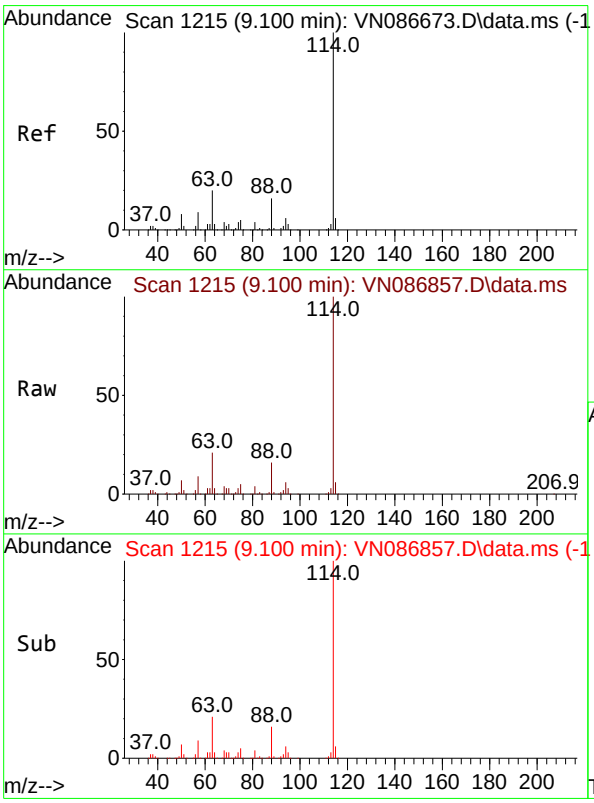
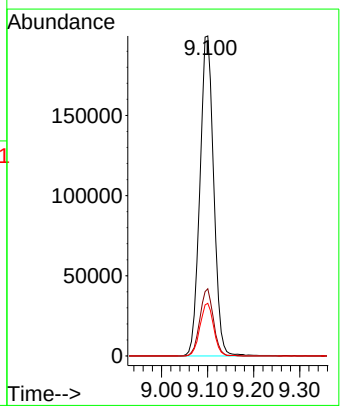
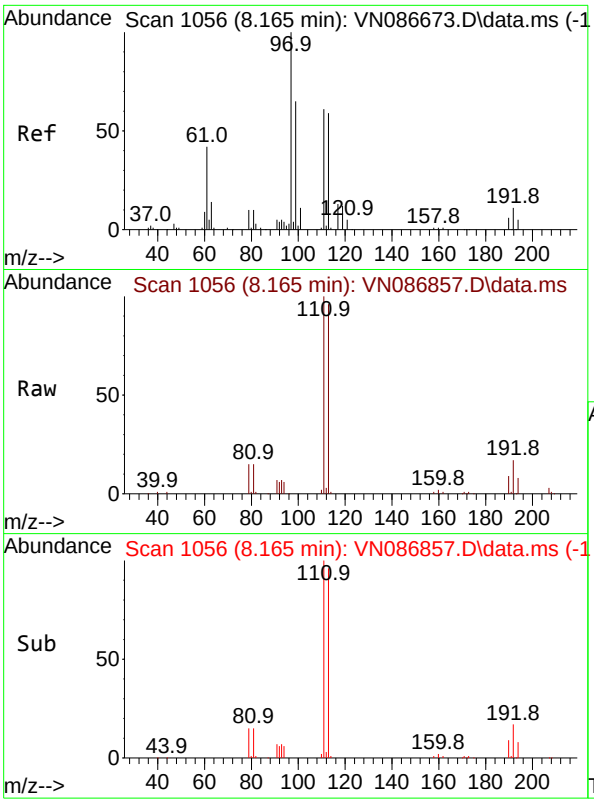


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.100 min Scan# 1215
Delta R.T. -0.000 min
Lab File: VN086857.D
Acq: 03 Jun 2025 21:00

Tgt Ion:114 Resp: 418395

Ion	Ratio	Lower	Upper
114	100		
63	21.0	0.0	40.2
88	16.5	0.0	31.2

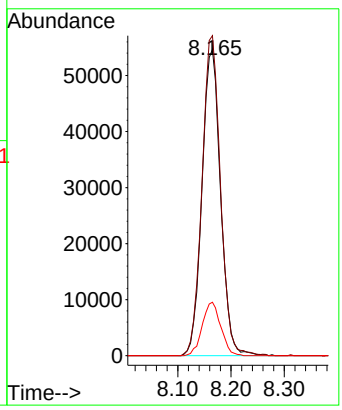




#35
Dibromofluoromethane
Concen: 53.168 ug/l
RT: 8.165 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086857.D
Acq: 03 Jun 2025 21:00

Tgt Ion:113 Resp: 13247

Ion	Ratio	Lower	Upper
113	100		
111	103.7	82.2	123.2
192	17.4	13.8	20.8



Instrument :
MSVOA_N
ClientSampleId :
B-202-SB01

Manual Integrations
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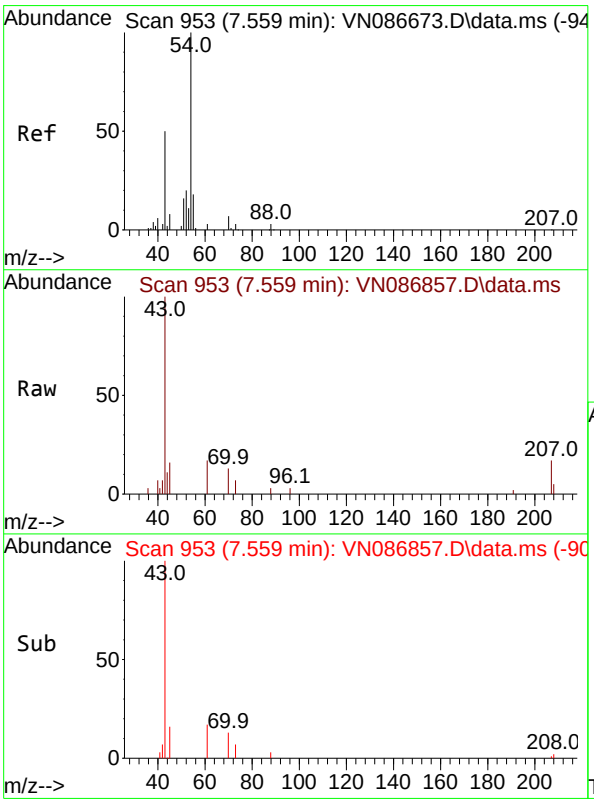
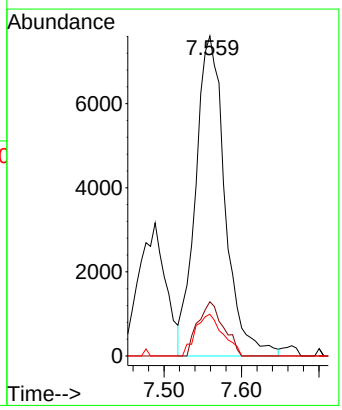
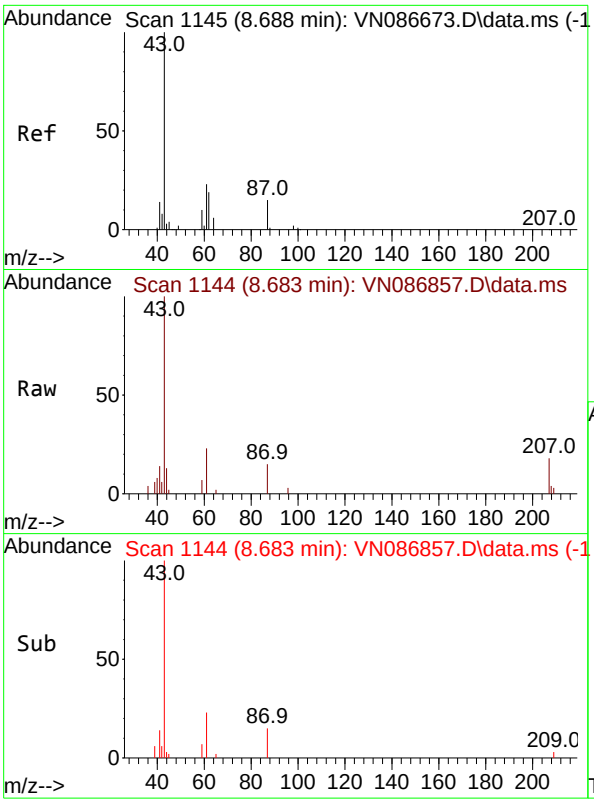


#37
Ethyl Acetate
Concen: 5.404 ug/l
RT: 7.559 min Scan# 953
Delta R.T. -0.000 min
Lab File: VN086857.D
Acq: 03 Jun 2025 21:00

Tgt Ion: 43 Resp: 20063

Ion	Ratio	Lower	Upper
43	100		
61	14.7	11.6	17.4
70	12.1	9.4	14.0

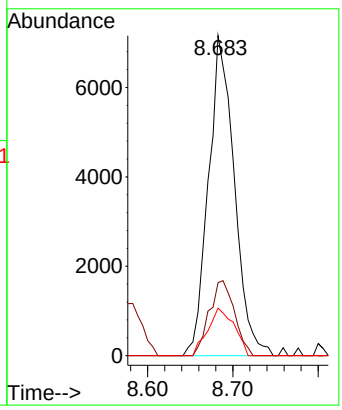




#43
Isopropyl Acetate
Concen: 2.031 ug/l
RT: 8.683 min Scan# 11
Delta R.T. -0.006 min
Lab File: VN086857.D
Acq: 03 Jun 2025 21:00

Tgt Ion: 43 Resp: 1511

Ion	Ratio	Lower	Upper
43	100		
61	22.7	21.4	32.2
87	15.1	11.1	16.7



Instrument :
MSVOA_N
ClientSampleId :
B-202-SB01

Manual Integrations
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Reviewed By :John Carlone
06/04/2025

Supervised By :Mahesh Dadoda
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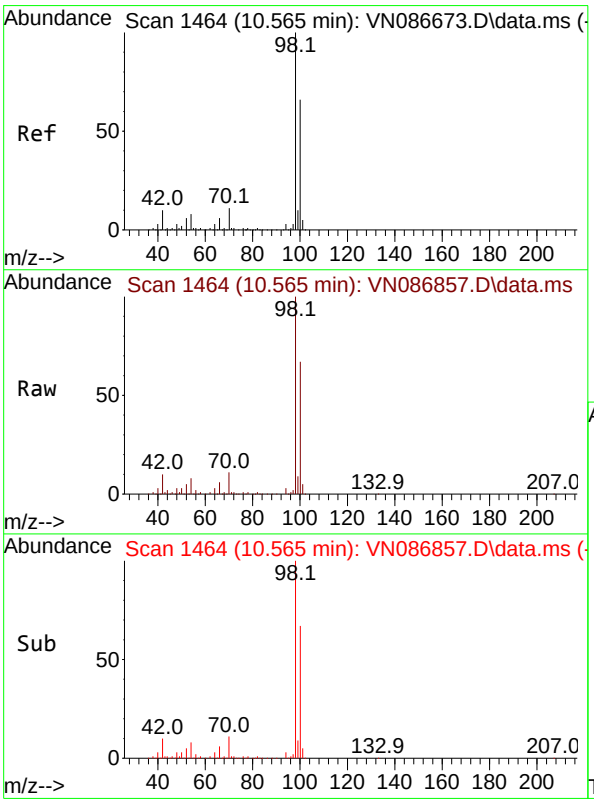
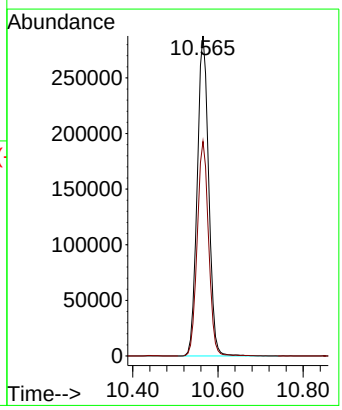
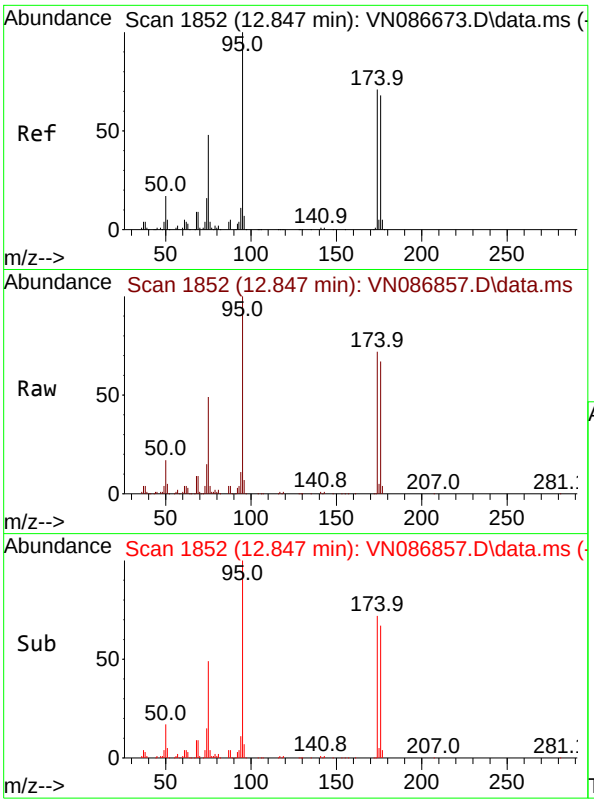


#50
Toluene-d8
Concen: 51.984 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VN086857.D
Acq: 03 Jun 2025 21:00

Tgt Ion: 98 Resp: 536776

Ion	Ratio	Lower	Upper
98	100		
100	66.3	52.9	79.3

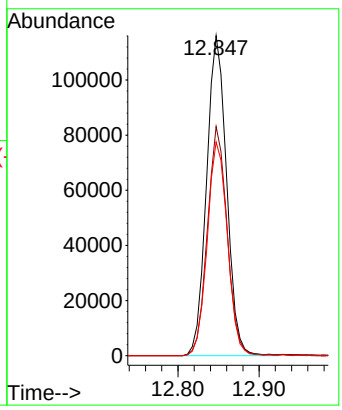




#62
4-Bromofluorobenzene
Concen: 54.562 ug/l
RT: 12.847 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086857.D
Acq: 03 Jun 2025 21:00

Tgt Ion: 95 Resp: 19893

Ion	Ratio	Lower	Upper
95	100		
174	70.5	0.0	145.4
176	67.1	0.0	137.8



Instrument :
MSVOA_N
ClientSampleId :
B-202-SB01

Manual Integrations
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Reviewed By :John Carlone
06/04/2025

Supervised By :Mahesh Dadoda
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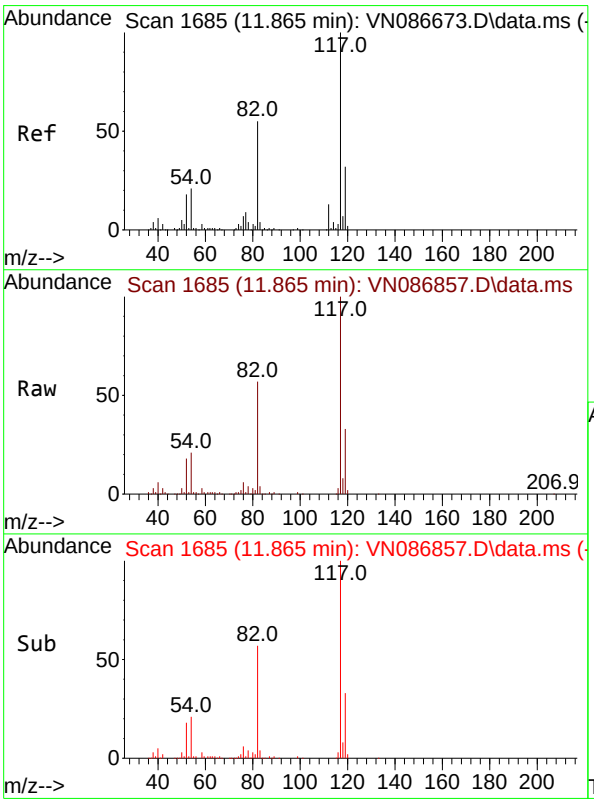
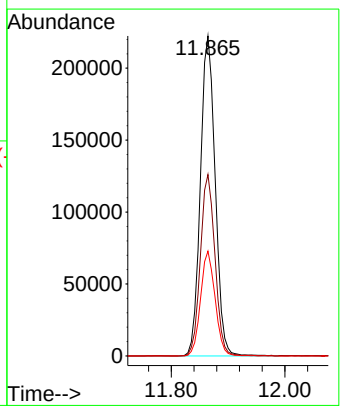
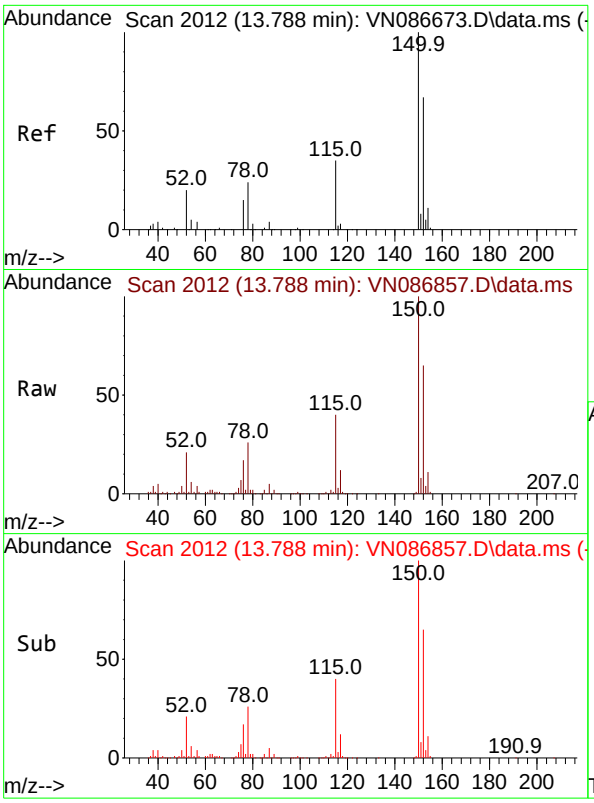


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. -0.000 min
Lab File: VN086857.D
Acq: 03 Jun 2025 21:00

Tgt Ion:117 Resp: 402557

Ion	Ratio	Lower	Upper
117	100		
82	56.7	44.2	66.2
119	32.8	25.4	38.2

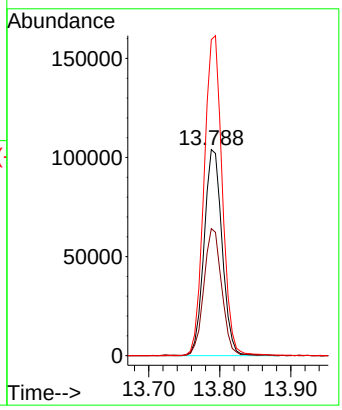




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2
Delta R.T. -0.000 min
Lab File: VN086857.D
Acq: 03 Jun 2025 21:00

Tgt Ion:152 Resp: 18385

Ion	Ratio	Lower	Upper
152	100		
115	60.4	30.0	90.1
150	156.3	0.0	347.8



Instrument :
MSVOA_N
ClientSampleId :
B-202-SB01

Manual Integrations APPROVED

Reviewed By :John Carlone
06/04/2025

Supervised By :Mahesh Dadoda
06/04/2025

CALIBRATION SUMMARY

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q2177 SAS No.: Q2177 SDG No.: Q2177

Instrument ID: MSVOA_N Calibration Date(s): 05/16/2025 05/16/2025

Heated Purge: (Y/N) N Calibration Time(s): 16:31 18:32

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

LAB FILE ID: RRF001 = VN086669.D RRF005 = VN086670.D RRF010 = VN086671.D
RRF020 = VN086672.D RRF050 = VN086673.D RRF100 = VN086674.D

COMPOUND	RRF001	RRF005	RRF010	RRF020	RRF050	RRF100	$\overline{RRF}$	% RSD
Vinyl Chloride	0.655	0.708	0.780	0.713	0.753	0.792	0.733	7
1,1-Dichloroethene	0.531	0.563	0.563	0.557	0.548	0.583	0.558	3.1
2-Butanone	0.361	0.404	0.398	0.414	0.402	0.418	0.399	5.1
Carbon Tetrachloride	0.384	0.438	0.430	0.460	0.430	0.454	0.433	6.2
Chloroform	1.061	1.146	1.109	1.173	1.093	1.133	1.119	3.5
Benzene	1.348	1.429	1.447	1.484	1.402	1.487	1.433	3.7
1,2-Dichloroethane	0.413	0.457	0.451	0.467	0.438	0.452	0.446	4.2
Trichloroethene	0.306	0.341	0.358	0.361	0.343	0.365	0.346	6.3
Tetrachloroethene	0.357	0.396	0.392	0.392	0.369	0.392	0.383	4.2
Chlorobenzene	1.030	1.112	1.109	1.138	1.060	1.130	1.096	3.9
1,2-Dichloroethane-d4		0.718	0.658	0.687	0.693	0.698	0.691	3.2
Dibromofluoromethane		0.300	0.289	0.291	0.298	0.311	0.298	3
Toluene-d8		1.203	1.159	1.233	1.250	1.325	1.234	5
4-Bromofluorobenzene		0.412	0.403	0.433	0.450	0.481	0.436	7.2

* 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.

Response Factor Report MSVOA_N_NEW

Method Path : Z:\voasrv\HPCHEM1\MSVOA_N\methods\
Method File : 82N051625W.M
Title : SW846 8260
Last Update : Sat May 17 00:46:13 2025
Response Via : Initial Calibration

Calibration Files
1 =VN086669.D 5 =VN086670.D 10 =VN086671.D 20 =VN086672.D 50 =VN086673.D 100 =VN086674.D

		Compound	1	5	10	20	50	100	Avg	%RSD
1)	I	Pentafluorobenzene	----------ISTD----------							
2)	T	Dichlorodifluo...	0.408	0.476	0.639	0.477	0.599	0.641	0.540	18.37
3)	P	Chloromethane	0.859	0.798	0.850	0.762	0.782	0.850	0.817	5.05
4)	C	Vinyl Chloride	0.655	0.708	0.780	0.713	0.753	0.792	0.733	7.00#
5)	T	Bromomethane		0.442	0.441	0.415	0.403	0.413	0.423	4.14
6)	T	Chloroethane	0.445	0.489	0.509	0.483	0.466	0.491	0.480	4.64
7)	T	Trichlorofluor...	0.777	0.887	0.892	0.899	0.880	0.925	0.877	5.85
8)	T	Diethyl Ether	0.325	0.367	0.364	0.374	0.360	0.382	0.362	5.43
9)	T	1,1,2-Trichlor...	0.449	0.535	0.544	0.544	0.528	0.549	0.525	7.25
10)	T	Methyl Iodide		0.595	0.657	0.656	0.651	0.706	0.653	6.03
11)	T	Tert butyl alc...		0.126	0.130	0.125	0.122	0.126	0.126	2.32
12)	CM	1,1-Dichloroet...	0.531	0.563	0.563	0.557	0.548	0.583	0.558	3.11#
13)	T	Acrolein		0.144	0.133	0.123	0.134	0.139	0.135	5.90
14)	T	Allyl chloride	0.786	0.805	0.910	0.864	0.824	0.875	0.844	5.55
15)	T	Acrylonitrile	0.265	0.310	0.319	0.334	0.311	0.330	0.312	8.00
16)	T	Acetone	0.286	0.252	0.259	0.257	0.243	0.254	0.258	5.71
17)	T	Carbon Disulfide	1.452	1.490	1.544	1.563	1.543	1.673	1.544	4.87
18)	T	Methyl Acetate	0.925	0.709	0.682	0.677	0.663	0.685	0.723	13.78
19)	T	Methyl tert-bu...	1.739	1.876	1.913	1.972	1.913	1.982	1.899	4.64
20)	T	Methylene Chlo...	0.746	0.683	0.670	0.679	0.631	0.684	0.682	5.44
21)	T	trans-1,2-Dich...	0.550	0.601	0.587	0.609	0.577	0.613	0.590	3.99
22)	T	Diisopropyl ether	1.668	1.927	1.927	2.007	1.922	1.976	1.904	6.35
23)	T	Vinyl Acetate	1.169	1.372	1.433	1.658	1.458	1.498	1.431	11.22
24)	P	1,1-Dichloroet...	1.049	1.127	1.126	1.146	1.104	1.156	1.118	3.44
25)	T	2-Butanone	0.361	0.404	0.398	0.414	0.402	0.418	0.399	5.07
26)	T	2,2-Dichloropr...	0.917	0.926	0.931	0.949	0.891	0.922	0.923	2.07
27)	T	cis-1,2-Dichlo...	0.681	0.721	0.721	0.754	0.712	0.754	0.724	3.80
28)	T	Bromochloromet...	0.489	0.526	0.519	0.506	0.508	0.501	0.508	2.58
29)	T	Tetrahydrofuran	0.226	0.257	0.262	0.280	0.265	0.274	0.261	7.16
30)	C	Chloroform	1.061	1.146	1.109	1.173	1.093	1.133	1.119	3.54#
31)	T	Cyclohexane		1.105	1.060	1.023	0.983	1.013	1.037	4.54
32)	T	1,1,1-Trichlor...	0.874	0.936	0.949	0.986	0.945	0.971	0.944	4.09
33)	S	1,2-Dichloroet...		0.718	0.658	0.687	0.693	0.698	0.691	3.16
34)	I	1,4-Difluorobenzene	----------ISTD----------							
35)	S	Dibromofluorom...		0.300	0.289	0.291	0.298	0.311	0.298	2.97
36)	T	1,1-Dichloropr...	0.405	0.437	0.442	0.450	0.435	0.465	0.439	4.50
37)	T	Ethyl Acetate	0.425	0.456	0.441	0.456	0.436	0.448	0.444	2.77
38)	T	Carbon Tetrach...	0.384	0.438	0.430	0.460	0.430	0.454	0.433	6.19
39)	T	Methylcyclohexane	0.436	0.460	0.466	0.496	0.482	0.513	0.475	5.78
40)	TM	Benzene	1.348	1.429	1.447	1.484	1.402	1.487	1.433	3.68
41)	T	Methacrylonitrile	0.216	0.242	0.246	0.248	0.240	0.246	0.240	4.96
42)	TM	1,2-Dichloroet...	0.413	0.457	0.451	0.467	0.438	0.452	0.446	4.22
43)	T	Isopropyl Acetate	1.138	0.956	0.840	0.852	0.771	0.780	0.889	15.59
44)	TM	Trichloroethene	0.306	0.341	0.358	0.361	0.343	0.365	0.346	6.33
45)	C	1,2-Dichloropr...	0.311	0.337	0.343	0.363	0.336	0.352	0.340	5.19#
46)	T	Dibromomethane	0.204	0.226	0.238	0.245	0.228	0.238	0.230	6.38
47)	T	Bromodichlorom...	0.437	0.468	0.469	0.496	0.471	0.497	0.473	4.65
48)	T	Methyl methacr...	0.305	0.338	0.338	0.369	0.351	0.366	0.345	6.74
49)	T	1,4-Dioxane	0.007	0.007	0.008	0.007	0.007	0.007	0.007	5.24
50)	S	Toluene-d8		1.203	1.159	1.233	1.250	1.325	1.234	4.98
51)	T	4-Methyl-2-Pen...	0.396	0.448	0.452	0.478	0.451	0.467	0.449	6.25
52)	CM	Toluene	0.765	0.898	0.891	0.956	0.887	0.947	0.891	7.68#
53)	T	t-1,3-Dichloro...	0.433	0.483	0.489	0.533	0.514	0.554	0.501	8.54
54)	T	cis-1,3-Dichlo...	0.485	0.537	0.552	0.576	0.546	0.586	0.547	6.48
55)	T	1,1,2-Trichlor...	0.324	0.338	0.327	0.346	0.321	0.338	0.332	2.90
56)	T	Ethyl methacry...	0.440	0.505	0.526	0.575	0.557	0.597	0.533	10.57

Method Path : Z:\voasrv\HPCHEM1\MSVOA_N\methods\
Method File : 82N051625W.M

57)	T	1,3-Dichloropr...	0.512	0.587	0.571	0.608	0.562	0.594	0.572	5.91
58)	T	2-Chloroethyl ...	0.177	0.229	0.241	0.250	0.259	0.275	0.238	14.17
59)	T	2-Hexanone	0.282	0.317	0.331	0.357	0.333	0.346	0.328	8.06
60)	T	Dibromochlorom...	0.301	0.334	0.347	0.374	0.349	0.384	0.348	8.44
61)	T	1,2-Dibromoethane	0.289	0.332	0.340	0.353	0.334	0.354	0.334	7.15
62)	S	4-Bromofluorob...		0.412	0.403	0.433	0.450	0.481	0.436	7.16
63)	I	Chlorobenzene-d5	----------ISTD----------							
64)	T	Tetrachloroethene	0.357	0.396	0.392	0.392	0.369	0.392	0.383	4.19
65)	PM	Chlorobenzene	1.030	1.112	1.109	1.138	1.060	1.130	1.096	3.86
66)	T	1,1,1,2-Tetrac...	0.338	0.346	0.358	0.366	0.349	0.367	0.354	3.26
67)	C	Ethyl Benzene	1.715	1.837	1.869	1.972	1.865	2.009	1.878	5.56#
68)	T	m/p-Xylenes	0.592	0.704	0.718	0.762	0.717	0.774	0.711	9.12
69)	T	o-Xylene	0.604	0.697	0.703	0.759	0.721	0.759	0.707	8.06
70)	T	Styrene	0.951	1.119	1.128	1.259	1.200	1.288	1.158	10.50
71)	P	Bromoform	0.214	0.243	0.247	0.265	0.261	0.281	0.252	9.18
72)	I	1,4-Dichlorobenzen...	----------ISTD----------							
73)	T	Isopropylbenzene	3.739	3.814	3.903	4.151	3.541	4.022	3.862	5.58
74)	T	N-amyl acetate	1.517	1.613	1.653	1.739	1.510	1.649	1.613	5.44
75)	P	1,1,2,2-Tetrac...	1.142	1.252	1.255	1.260	1.054	1.156	1.186	7.03
76)	T	1,2,3-Trichlor...	1.144	1.045	1.202	1.225	1.037	1.131	1.131	6.88
77)	T	Bromobenzene	1.039	0.954	0.981	1.002	0.872	0.981	0.971	5.81
78)	T	n-propylbenzene	4.177	4.301	4.383	4.780	4.195	4.754	4.432	6.10
79)	T	2-Chlorotoluene	2.764	2.914	2.943	3.056	2.667	2.946	2.882	4.89
80)	T	1,3,5-Trimethy...	2.827	3.050	3.168	3.330	2.932	3.256	3.094	6.25
81)	T	trans-1,4-Dich...		0.390	0.422	0.505	0.449	0.474	0.448	10.01
82)	T	4-Chlorotoluene	2.734	2.787	2.922	3.069	2.656	2.960	2.855	5.43
83)	T	tert-Butylbenzene	2.564	2.639	2.781	2.929	2.499	2.778	2.698	5.93
84)	T	1,2,4-Trimethy...	2.725	3.002	3.143	3.339	2.983	3.295	3.081	7.39
85)	T	sec-Butylbenzene	3.223	3.516	3.750	3.887	3.455	3.876	3.618	7.31
86)	T	p-Isopropyltol...	2.643	2.835	2.954	3.198	2.901	3.262	2.965	7.80
87)	T	1,3-Dichlorobe...	1.619	1.715	1.707	1.734	1.602	1.715	1.682	3.35
88)	T	1,4-Dichlorobe...	1.587	1.673	1.695	1.751	1.583	1.711	1.667	4.10
89)	T	n-Butylbenzene	2.234	2.274	2.398	2.630	2.443	2.771	2.458	8.45
90)	T	Hexachloroethane	0.431	0.473	0.492	0.526	0.475	0.556	0.492	8.92
91)	T	1,2-Dichlorobe...	1.574	1.585	1.636	1.655	1.550	1.600	1.600	2.45
92)	T	1,2-Dibromo-3-...	0.164	0.205	0.194	0.200	0.201	0.215	0.197	8.86
93)	T	1,2,4-Trichlor...	0.577	0.629	0.658	0.720	0.686	0.782	0.675	10.59
94)	T	Hexachlorobuta...	0.312	0.280	0.262	0.282	0.263	0.283	0.280	6.54
95)	T	Naphthalene	2.146	2.123	2.231	2.425	2.418	2.727	2.345	9.71
96)	T	1,2,3-Trichlor...	0.626	0.612	0.664	0.674	0.653	0.739	0.661	6.77

(#) = Out of Range

Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN051625\
Data File : VN086669.D
Acq On : 16 May 2025 16:31
Operator : JC\MD
Sample : VSTDICC001
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 17 00:11:55 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N051625W.M
Quant Title : SW846 8260
QLast Update : Sat May 17 00:09:38 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

Reviewed By :John Carlone 05/19/2025
Supervised By :Mahesh Dadoda 05/19/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.224	168	204431	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	373632	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	326222	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	120460	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	0.000	65	0d	0.000	ug/l	
Spiked Amount 50.000	Range 74 - 125		Recovery =	0.000%#		
35) Dibromofluoromethane	0.000	113	0d	0.000	ug/l	
Spiked Amount 50.000	Range 75 - 124		Recovery =	0.000%#		
50) Toluene-d8	0.000	98	0d	0.000	ug/l	
Spiked Amount 50.000	Range 86 - 113		Recovery =	0.000%#		
62) 4-Bromofluorobenzene	0.000	95	0d	0.000	ug/l	
Spiked Amount 50.000	Range 77 - 121		Recovery =	0.000%#		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.124	85	1668	0.687	ug/l	92
3) Chloromethane	2.359	50	3511	0.992	ug/l	91
4) Vinyl Chloride	2.518	62	2679	0.803	ug/l	92
6) Chloroethane	3.118	64	1819	0.817	ug/l #	82
7) Trichlorofluoromethane	3.494	101	3176	0.851	ug/l #	82
8) Diethyl Ether	3.959	74	1329	0.823	ug/l	93
9) 1,1,2-Trichlorotrifluo...	4.371	101	1834	0.814	ug/l	96
12) 1,1-Dichloroethene	4.336	96	2173	0.904	ug/l #	83
14) Allyl chloride	5.024	41	3215	0.764	ug/l	94
15) Acrylonitrile	5.718	53	5412	4.060	ug/l	99
16) Acetone	4.436	43	5855	4.962	ug/l	93
17) Carbon Disulfide	4.724	76	5935	0.825	ug/l #	92
18) Methyl Acetate	5.024	43	3780	1.087	ug/l #	81
19) Methyl tert-butyl Ether	5.800	73	7109	0.810	ug/l	99
20) Methylene Chloride	5.271	84	3050	1.110	ug/l #	96
21) trans-1,2-Dichloroethene	5.794	96	2250	0.894	ug/l #	73
22) Diisopropyl ether	6.671	45	6818	0.743	ug/l #	96
23) Vinyl Acetate	6.600	43	23893	3.683	ug/l	99
24) 1,1-Dichloroethane	6.571	63	4288	0.877	ug/l #	82
25) 2-Butanone	7.482	43	7380	4.035	ug/l	96
26) 2,2-Dichloropropane	7.488	77	3751	0.866	ug/l	91
27) cis-1,2-Dichloroethene	7.488	96	2786	0.893	ug/l	94
28) Bromochloromethane	7.818	49	1999	0.957	ug/l #	86
29) Tetrahydrofuran	7.847	42	4627	3.784	ug/l	99
30) Chloroform	7.965	83	4340	0.901	ug/l	94
32) 1,1,1-Trichloroethane	8.165	97	3575	0.867	ug/l #	51
36) 1,1-Dichloropropene	8.371	75	3030	0.877	ug/l	93
37) Ethyl Acetate	7.559	43	3175	0.874	ug/l #	69
38) Carbon Tetrachloride	8.359	117	2873	0.869	ug/l #	85
39) Methylcyclohexane	9.600	83	3255	0.801	ug/l	92
40) Benzene	8.606	78	10071	0.908	ug/l	96
41) Methacrylonitrile	7.782	41	1615	0.775	ug/l #	57
42) 1,2-Dichloroethane	8.665	62	3087	0.874	ug/l	80
43) Isopropyl Acetate	8.682	43	8505m	0.980	ug/l	
44) Trichloroethene	9.353	130	2284	0.866	ug/l	93
45) 1,2-Dichloropropane	9.618	63	2325	0.861	ug/l	100

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN051625\
Data File : VN086669.D
Acq On : 16 May 2025 16:31
Operator : JC\MD
Sample : VSTDICC001
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

Reviewed By :John Carlone 05/19/2025
Supervised By :Mahesh Dadoda 05/19/2025

Quant Time: May 17 00:11:55 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N051625W.M
Quant Title : SW846 8260
QLast Update : Sat May 17 00:09:38 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46) Dibromomethane	9.706	93	1521	0.878	ug/l		95
47) Bromodichloromethane	9.882	83	3268	0.875	ug/l	#	87
48) Methyl methacrylate	9.676	41	2282	0.725	ug/l		97
49) 1,4-Dioxane	9.700	88	978	17.569	ug/l	#	73
51) 4-Methyl-2-Pentanone	10.441	43	14811	4.011	ug/l		97
52) Toluene	10.623	92	5713	0.826	ug/l		91
53) t-1,3-Dichloropropene	10.835	75	3234	0.783	ug/l		99
54) cis-1,3-Dichloropropene	10.312	75	3626	0.798	ug/l	#	86
55) 1,1,2-Trichloroethane	11.018	97	2419	0.970	ug/l	#	79
56) Ethyl methacrylate	10.870	69	3289	0.722	ug/l		96
57) 1,3-Dichloropropane	11.159	76	3826	0.866	ug/l		100
58) 2-Chloroethyl Vinyl ether	10.159	63	6624	3.099	ug/l		99
59) 2-Hexanone	11.194	43	10521	3.837	ug/l		91
60) Dibromochloromethane	11.359	129	2253	0.825	ug/l		98
61) 1,2-Dibromoethane	11.470	107	2160	0.855	ug/l		99
64) Tetrachloroethene	11.100	164	2329	0.929	ug/l		88
65) Chlorobenzene	11.888	112	6720	0.922	ug/l		97
66) 1,1,1,2-Tetrachloroethane	11.953	131	2204	0.917	ug/l	#	60
67) Ethyl Benzene	11.959	91	11189	0.855	ug/l		95
68) m/p-Xylenes	12.065	106	7721	1.572	ug/l		97
69) o-Xylene	12.394	106	3944	0.809	ug/l		95
70) Styrene	12.412	104	6208	0.767	ug/l		99
71) Bromoform	12.576	173	1394	0.771	ug/l	#	99
73) Isopropylbenzene	12.694	105	9008	0.921	ug/l		96
74) N-amyl acetate	12.488	43	3655	0.762	ug/l		92
75) 1,1,2,2-Tetrachloroethane	12.935	83	2752	0.969	ug/l		98
76) 1,2,3-Trichloropropane	12.988	75	2756m	0.972	ug/l		
77) Bromobenzene	12.976	156	2503	1.142	ug/l		93
78) n-propylbenzene	13.029	91	10063	0.875	ug/l		95
79) 2-Chlorotoluene	13.123	91	6658	0.921	ug/l		95
80) 1,3,5-Trimethylbenzene	13.170	105	6811	0.851	ug/l		100
82) 4-Chlorotoluene	13.217	91	6587	0.920	ug/l		94
83) tert-Butylbenzene	13.435	119	6176	0.889	ug/l		97
84) 1,2,4-Trimethylbenzene	13.482	105	6564	0.807	ug/l		99
85) sec-Butylbenzene	13.611	105	7764	0.811	ug/l		100
86) p-Isopropyltoluene	13.729	119	6368	0.807	ug/l		94
87) 1,3-Dichlorobenzene	13.729	146	3900	0.951	ug/l		94
88) 1,4-Dichlorobenzene	13.806	146	3823m	0.928	ug/l		
89) n-Butylbenzene	14.053	91	5382	0.777	ug/l		97
90) Hexachloroethane	14.329	117	1038	0.782	ug/l		97
91) 1,2-Dichlorobenzene	14.106	146	3792	0.954	ug/l		98
92) 1,2-Dibromo-3-Chloropr...	14.717	75	395	0.702	ug/l	#	65
93) 1,2,4-Trichlorobenzene	15.394	180	1389	0.741	ug/l		88
94) Hexachlorobutadiene	15.500	225	752	1.056	ug/l		82
95) Naphthalene	15.635	128	5170	0.777	ug/l		96
96) 1,2,3-Trichlorobenzene	15.841	180	1509	0.847	ug/l		91

(#) = qualifier out of range (m) = manual integration (+) = signals summed

ICAL Form

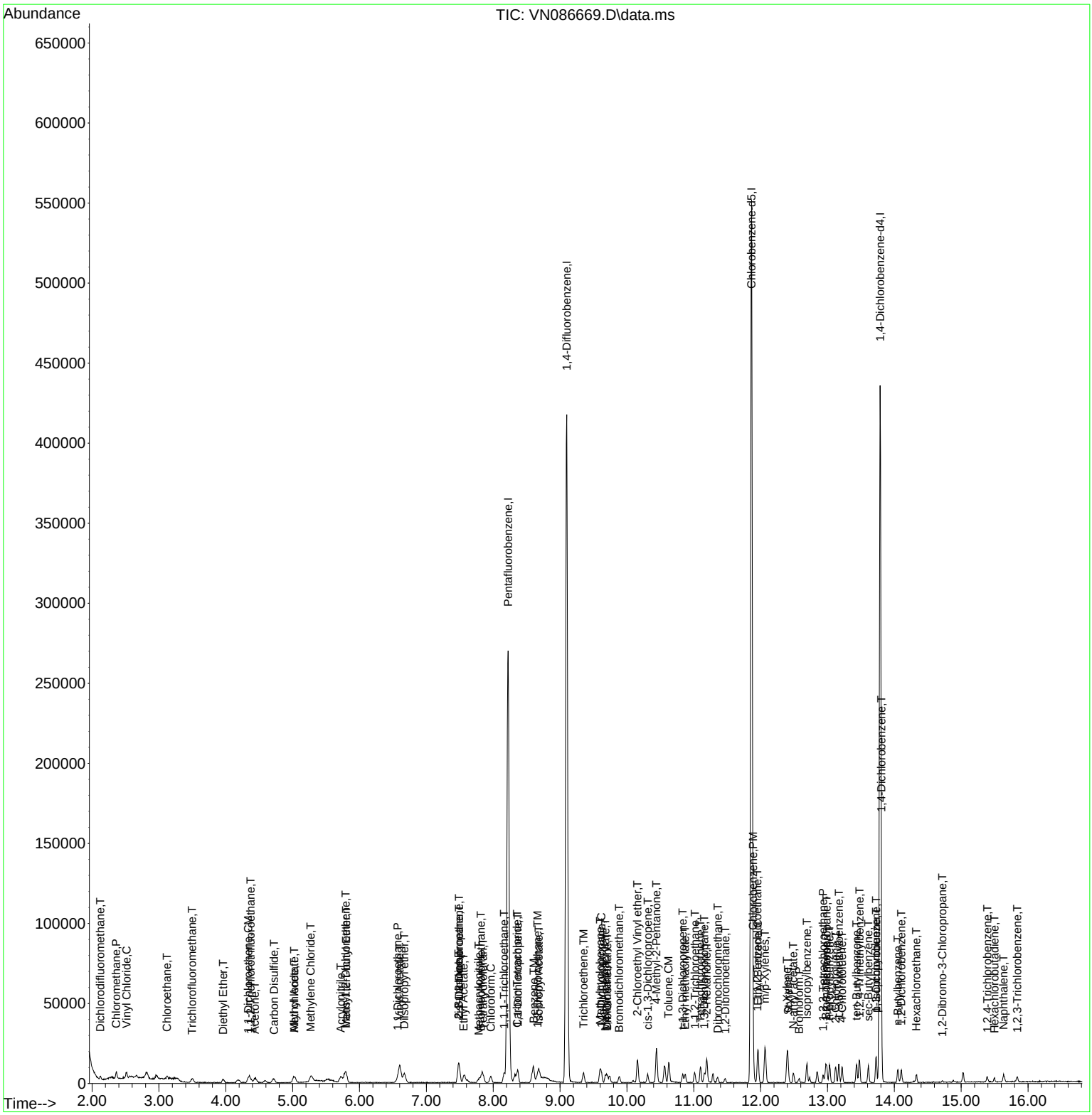
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN051625\
Data File : VN086669.D
Acq On : 16 May 2025 16:31
Operator : JC\MD
Sample : VSTDICC001
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 17 00:11:55 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N051625W.M
Quant Title : SW846 8260
QLast Update : Sat May 17 00:09:38 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

Reviewed By :John Carlone 05/19/2025
Supervised By :Mahesh Dadoda 05/19/2025



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN051625\
Data File : VN086670.D
Acq On : 16 May 2025 16:55
Operator : JC\MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

Reviewed By :John Carlone 05/19/2025
Supervised By :Mahesh Dadoda 05/19/2025

Quant Time: May 17 00:12:55 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N051625W.M
Quant Title : SW846 8260
QLast Update : Sat May 17 00:09:38 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	8.218	168	199484	50.000	ug/l		0.00
34) 1,4-Difluorobenzene	9.100	114	363475	50.000	ug/l		0.00
63) Chlorobenzene-d5	11.865	117	327745	50.000	ug/l		0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	138972	50.000	ug/l		0.00
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4	8.576	65	14329	4.989	ug/l		0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	9.980%#			
35) Dibromofluoromethane	8.159	113	10911	6.032	ug/l		0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	12.060%#			
50) Toluene-d8	10.565	98	43744	4.852	ug/l		0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	9.700%#			
62) 4-Bromofluorobenzene	12.847	95	14966	4.570	ug/l		0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	9.140%#			
Target Compounds							Qvalue
2) Dichlorodifluoromethane	2.124	85	9487	4.002	ug/l		98
3) Chloromethane	2.359	50	15910	4.605	ug/l		93
4) Vinyl Chloride	2.512	62	14120	4.338	ug/l		91
5) Bromomethane	2.942	94	8815	5.827	ug/l		95
6) Chloroethane	3.118	64	9752	4.490	ug/l		94
7) Trichlorofluoromethane	3.494	101	17692	4.855	ug/l		94
8) Diethyl Ether	3.953	74	7321	4.643	ug/l		98
9) 1,1,2-Trichlorotrifluo...	4.377	101	10672	4.852	ug/l		98
10) Methyl Iodide	4.583	142	11863	4.827	ug/l		91
11) Tert butyl alcohol	5.524	59	12572	23.903	ug/l	#	86
12) 1,1-Dichloroethene	4.341	96	11235	4.790	ug/l		93
13) Acrolein	4.177	56	14380	40.124	ug/l		97
14) Allyl chloride	5.024	41	16060	3.913	ug/l		98
15) Acrylonitrile	5.718	53	30877	23.738	ug/l		99
16) Acetone	4.424	43	25108	21.808	ug/l		94
17) Carbon Disulfide	4.712	76	29733	4.235	ug/l		99
18) Methyl Acetate	5.024	43	14135	4.165	ug/l		98
19) Methyl tert-butyl Ether	5.794	73	37422	4.369	ug/l		96
20) Methylene Chloride	5.271	84	13630	5.082	ug/l		94
21) trans-1,2-Dichloroethene	5.788	96	11984	4.879	ug/l		90
22) Diisopropyl ether	6.665	45	38431	4.292	ug/l		97
23) Vinyl Acetate	6.600	43	136818m	21.613	ug/l		
24) 1,1-Dichloroethane	6.565	63	22481	4.714	ug/l		97
25) 2-Butanone	7.482	43	40273	22.565	ug/l		99
26) 2,2-Dichloropropane	7.488	77	18472	4.369	ug/l		99
27) cis-1,2-Dichloroethene	7.488	96	14376	4.720	ug/l		97
28) Bromochloromethane	7.812	49	10493	5.145	ug/l	#	100
29) Tetrahydrofuran	7.841	42	25661	21.506	ug/l		100
30) Chloroform	7.959	83	22851	4.863	ug/l		98
31) Cyclohexane	8.253	56	22050	4.771	ug/l		97
32) 1,1,1-Trichloroethane	8.165	97	18669	4.640	ug/l		91
36) 1,1-Dichloropropene	8.365	75	15893	4.729	ug/l		99
37) Ethyl Acetate	7.559	43	16573m	4.689	ug/l		
38) Carbon Tetrachloride	8.359	117	15908	4.944	ug/l		90
39) Methylcyclohexane	9.600	83	16719	4.228	ug/l		91
40) Benzene	8.606	78	51932	4.814	ug/l		99

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN051625\
Data File : VN086670.D
Acq On : 16 May 2025 16:55
Operator : JC\MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 17 00:12:55 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N051625W.M
Quant Title : SW846 8260
QLast Update : Sat May 17 00:09:38 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

Reviewed By :John Carlone 05/19/2025
Supervised By :Mahesh Dadoda 05/19/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.777	41	8791	4.338	ug/l		94
42) 1,2-Dichloroethane	8.665	62	16621	4.839	ug/l		99
43) Isopropyl Acetate	8.682	43	34745	4.117	ug/l	#	91
44) Trichloroethene	9.353	130	12394	4.833	ug/l		92
45) 1,2-Dichloropropane	9.618	63	12252	4.665	ug/l		94
46) Dibromomethane	9.706	93	8214	4.876	ug/l		97
47) Bromodichloromethane	9.888	83	17028	4.689	ug/l		100
48) Methyl methacrylate	9.676	41	12296	4.016	ug/l		96
49) 1,4-Dioxane	9.688	88	5357	98.922	ug/l	#	81
51) 4-Methyl-2-Pentanone	10.441	43	81358	22.646	ug/l		99
52) Toluene	10.629	92	32634	4.849	ug/l		97
53) t-1,3-Dichloropropene	10.829	75	17545	4.365	ug/l		96
54) cis-1,3-Dichloropropene	10.312	75	19516	4.414	ug/l		97
55) 1,1,2-Trichloroethane	11.012	97	12277	5.058	ug/l		94
56) Ethyl methacrylate	10.870	69	18350	4.144	ug/l		97
57) 1,3-Dichloropropane	11.159	76	21342	4.967	ug/l		100
58) 2-Chloroethyl Vinyl ether	10.159	63	41611	20.009	ug/l		99
59) 2-Hexanone	11.194	43	57606	21.598	ug/l		98
60) Dibromochloromethane	11.359	129	12131	4.568	ug/l		100
61) 1,2-Dibromoethane	11.465	107	12079	4.917	ug/l		98
64) Tetrachloroethene	11.100	164	12989	5.155	ug/l		97
65) Chlorobenzene	11.888	112	36442	4.975	ug/l		100
66) 1,1,1,2-Tetrachloroethane	11.959	131	11341	4.696	ug/l		98
67) Ethyl Benzene	11.959	91	60213	4.582	ug/l		99
68) m/p-Xylenes	12.070	106	46152	9.352	ug/l		99
69) o-Xylene	12.394	106	22829	4.659	ug/l		100
70) Styrene	12.406	104	36686	4.513	ug/l		99
71) Bromoform	12.576	173	7950	4.376	ug/l	#	98
73) Isopropylbenzene	12.694	105	53004	4.698	ug/l		99
74) N-amyl acetate	12.488	43	22422	4.051	ug/l		98
75) 1,1,2,2-Tetrachloroethane	12.935	83	17395	5.308	ug/l		97
76) 1,2,3-Trichloropropane	12.994	75	14523m	4.438	ug/l		
77) Bromobenzene	12.976	156	13253	5.241	ug/l		99
78) n-propylbenzene	13.029	91	59767	4.507	ug/l		99
79) 2-Chlorotoluene	13.123	91	40497	4.856	ug/l		100
80) 1,3,5-Trimethylbenzene	13.170	105	42383	4.589	ug/l		96
81) trans-1,4-Dichloro-2-b...	12.729	75	5413	3.983	ug/l		92
82) 4-Chlorotoluene	13.217	91	38730	4.691	ug/l		99
83) tert-Butylbenzene	13.435	119	36669	4.577	ug/l		99
84) 1,2,4-Trimethylbenzene	13.476	105	41716	4.445	ug/l		98
85) sec-Butylbenzene	13.611	105	48868	4.426	ug/l		99
86) p-Isopropyltoluene	13.723	119	39399	4.330	ug/l		99
87) 1,3-Dichlorobenzene	13.729	146	23834	5.037	ug/l		98
88) 1,4-Dichlorobenzene	13.806	146	23246	4.889	ug/l		93
89) n-Butylbenzene	14.053	91	31605	3.957	ug/l		98
90) Hexachloroethane	14.329	117	6569	4.292	ug/l		97
91) 1,2-Dichlorobenzene	14.100	146	22033	4.803	ug/l		97
92) 1,2-Dibromo-3-Chloropr...	14.711	75	2855	4.399	ug/l		90
93) 1,2,4-Trichlorobenzene	15.388	180	8745	4.045	ug/l		98
94) Hexachlorobutadiene	15.494	225	3892	4.737	ug/l		94
95) Naphthalene	15.641	128	29507	3.845	ug/l		99
96) 1,2,3-Trichlorobenzene	15.835	180	8499	4.134	ug/l		100

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN051625\
Data File : VN086670.D
Acq On : 16 May 2025 16:55
Operator : JC\MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

Reviewed By :John Carlone 05/19/2025
Supervised By :Mahesh Dadoda 05/19/2025

Quant Time: May 17 00:12:55 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N051625W.M
Quant Title : SW846 8260
QLast Update : Sat May 17 00:09:38 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

(#) = qualifier out of range (m) = manual integration (+) = signals summed

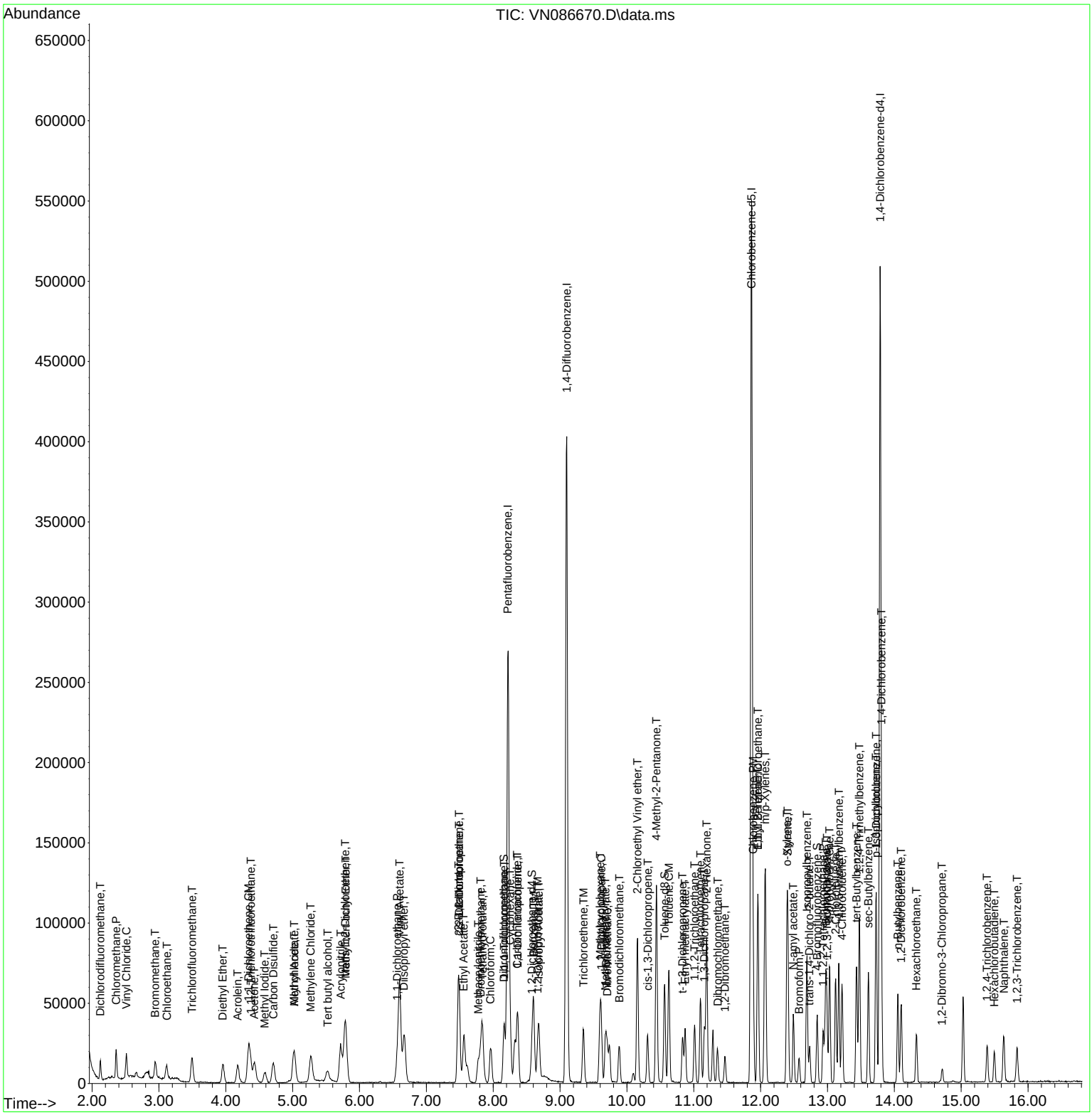
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN051625\
Data File : VN086670.D
Acq On : 16 May 2025 16:55
Operator : JC\MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 17 00:12:55 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N051625W.M
Quant Title : SW846 8260
QLast Update : Sat May 17 00:09:38 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

Reviewed By :John Carlone 05/19/2025
Supervised By :Mahesh Dadoda 05/19/2025



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN051625\
Data File : VN086671.D
Acq On : 16 May 2025 17:19
Operator : JC\MD
Sample : VSTDICC010
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

Reviewed By :John Carlone 05/19/2025
Supervised By :Mahesh Dadoda 05/19/2025

Quant Time: May 17 00:13:57 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N051625W.M
Quant Title : SW846 8260
QLast Update : Sat May 17 00:09:38 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.224	168	190888	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	347826	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	310401	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	132166	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	25122	9.141	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	18.280%#		
35) Dibromofluoromethane	8.159	113	20087	11.605	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	23.220%#		
50) Toluene-d8	10.565	98	80603	9.343	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	18.680%#		
62) 4-Bromofluorobenzene	12.847	95	28023	8.941	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	17.880%#		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.124	85	24398	10.757	ug/l	99
3) Chloromethane	2.359	50	32457	9.817	ug/l	97
4) Vinyl Chloride	2.512	62	29779	9.561	ug/l	99
5) Bromomethane	2.965	94	16825	11.623	ug/l	98
6) Chloroethane	3.118	64	19426	9.346	ug/l	92
7) Trichlorofluoromethane	3.500	101	34059	9.768	ug/l	92
8) Diethyl Ether	3.965	74	13912	9.221	ug/l	99
9) 1,1,2-Trichlorotrifluo...	4.371	101	20760	9.864	ug/l	97
10) Methyl Iodide	4.583	142	25084	10.666	ug/l	98
11) Tert butyl alcohol	5.524	59	24828	49.332	ug/l	96
12) 1,1-Dichloroethene	4.342	96	21501	9.579	ug/l	98
13) Acrolein	4.177	56	25323	73.840	ug/l	98
14) Allyl chloride	5.024	41	34751	8.848	ug/l	94
15) Acrylonitrile	5.724	53	60987	48.997	ug/l	98
16) Acetone	4.430	43	49424	44.862	ug/l	97
17) Carbon Disulfide	4.706	76	58965	8.778	ug/l	99
18) Methyl Acetate	5.018	43	26047	8.021	ug/l	99
19) Methyl tert-butyl Ether	5.794	73	73019	8.908	ug/l	98
20) Methylene Chloride	5.283	84	25575	9.965	ug/l	95
21) trans-1,2-Dichloroethene	5.783	96	22422	9.539	ug/l	93
22) Diisopropyl ether	6.671	45	73555	8.584	ug/l	97
23) Vinyl Acetate	6.600	43	273527m	45.155	ug/l	
24) 1,1-Dichloroethane	6.565	63	42997	9.421	ug/l	98
25) 2-Butanone	7.482	43	75976	44.487	ug/l	100
26) 2,2-Dichloropropane	7.488	77	35543	8.785	ug/l	99
27) cis-1,2-Dichloroethene	7.482	96	27508	9.439	ug/l	100
28) Bromochloromethane	7.812	49	19798	10.145	ug/l	99
29) Tetrahydrofuran	7.841	42	50074	43.856	ug/l	100
30) Chloroform	7.959	83	42323	9.413	ug/l	96
31) Cyclohexane	8.259	56	40462	9.148	ug/l	94
32) 1,1,1-Trichloroethane	8.165	97	36234	9.412	ug/l	94
36) 1,1-Dichloropropene	8.371	75	30748	9.561	ug/l	99
37) Ethyl Acetate	7.559	43	30656	9.064	ug/l	99
38) Carbon Tetrachloride	8.359	117	29903	9.712	ug/l	98
39) Methylcyclohexane	9.600	83	32439	8.573	ug/l	98
40) Benzene	8.606	78	100693	9.755	ug/l	97

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN051625\
Data File : VN086671.D
Acq On : 16 May 2025 17:19
Operator : JC\MD
Sample : VSTDICC010
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 17 00:13:57 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N051625W.M
Quant Title : SW846 8260
QLast Update : Sat May 17 00:09:38 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

Reviewed By :John Carlone 05/19/2025
Supervised By :Mahesh Dadoda 05/19/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.777	41	17107	8.821	ug/l		95
42) 1,2-Dichloroethane	8.665	62	31399	9.553	ug/l		100
43) Isopropyl Acetate	8.688	43	58427	7.234	ug/l		96
44) Trichloroethene	9.353	130	24877	10.137	ug/l		93
45) 1,2-Dichloropropane	9.618	63	23844	9.487	ug/l		94
46) Dibromomethane	9.706	93	16556	10.271	ug/l		98
47) Bromodichloromethane	9.888	83	32635	9.391	ug/l		98
48) Methyl methacrylate	9.676	41	23538	8.034	ug/l		96
49) 1,4-Dioxane	9.694	88	10578	204.120	ug/l		97
51) 4-Methyl-2-Pentanone	10.441	43	157047	45.680	ug/l		100
52) Toluene	10.629	92	61995	9.627	ug/l		99
53) t-1,3-Dichloropropene	10.829	75	34038	8.850	ug/l		99
54) cis-1,3-Dichloropropene	10.312	75	38382	9.072	ug/l		98
55) 1,1,2-Trichloroethane	11.012	97	22750	9.795	ug/l		97
56) Ethyl methacrylate	10.871	69	36596	8.636	ug/l		97
57) 1,3-Dichloropropane	11.159	76	39702	9.655	ug/l		100
58) 2-Chloroethyl Vinyl ether	10.159	63	83758	42.087	ug/l		99
59) 2-Hexanone	11.194	43	115102	45.097	ug/l		98
60) Dibromochloromethane	11.359	129	24137	9.497	ug/l		98
61) 1,2-Dibromoethane	11.465	107	23669	10.068	ug/l		100
64) Tetrachloroethene	11.100	164	24331	10.197	ug/l		97
65) Chlorobenzene	11.888	112	68845	9.924	ug/l		97
66) 1,1,1,2-Tetrachloroethane	11.959	131	22204	9.708	ug/l		99
67) Ethyl Benzene	11.959	91	116022	9.322	ug/l		98
68) m/p-Xylenes	12.070	106	89159	19.076	ug/l		98
69) o-Xylene	12.394	106	43625	9.401	ug/l		96
70) Styrene	12.406	104	70053	9.099	ug/l		98
71) Bromoform	12.576	173	15340	8.916	ug/l	#	96
73) Isopropylbenzene	12.694	105	103176	9.616	ug/l		100
74) N-amyl acetate	12.488	43	43684	8.299	ug/l		99
75) 1,1,2,2-Tetrachloroethane	12.935	83	33161	10.640	ug/l		96
76) 1,2,3-Trichloropropane	12.988	75	31781m	10.213	ug/l		
77) Bromobenzene	12.976	156	25936	10.785	ug/l		99
78) n-propylbenzene	13.035	91	115866	9.188	ug/l		99
79) 2-Chlorotoluene	13.123	91	77792	9.808	ug/l		99
80) 1,3,5-Trimethylbenzene	13.170	105	83733	9.534	ug/l		99
81) trans-1,4-Dichloro-2-b...	12.729	75	11161	8.635	ug/l		96
82) 4-Chlorotoluene	13.217	91	77247	9.839	ug/l		98
83) tert-Butylbenzene	13.435	119	73503	9.647	ug/l		99
84) 1,2,4-Trimethylbenzene	13.476	105	83086	9.310	ug/l		98
85) sec-Butylbenzene	13.611	105	99120	9.441	ug/l		97
86) p-Isopropyltoluene	13.723	119	78078	9.023	ug/l		99
87) 1,3-Dichlorobenzene	13.729	146	45121	10.027	ug/l		99
88) 1,4-Dichlorobenzene	13.811	146	44799	9.907	ug/l		98
89) n-Butylbenzene	14.053	91	63385	8.345	ug/l		99
90) Hexachloroethane	14.329	117	13004	8.934	ug/l		98
91) 1,2-Dichlorobenzene	14.106	146	43237	9.912	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	14.717	75	5136	8.321	ug/l		97
93) 1,2,4-Trichlorobenzene	15.388	180	17399	8.463	ug/l		99
94) Hexachlorobutadiene	15.494	225	6916	8.850	ug/l		97
95) Naphthalene	15.641	128	58965	8.080	ug/l		98
96) 1,2,3-Trichlorobenzene	15.835	180	17539	8.970	ug/l		99

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN051625\
Data File : VN086671.D
Acq On : 16 May 2025 17:19
Operator : JC\MD
Sample : VSTDICC010
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

Reviewed By :John Carlone 05/19/2025
Supervised By :Mahesh Dadoda 05/19/2025

Quant Time: May 17 00:13:57 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N051625W.M
Quant Title : SW846 8260
QLast Update : Sat May 17 00:09:38 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

(#) = qualifier out of range (m) = manual integration (+) = signals summed

ICAL Form

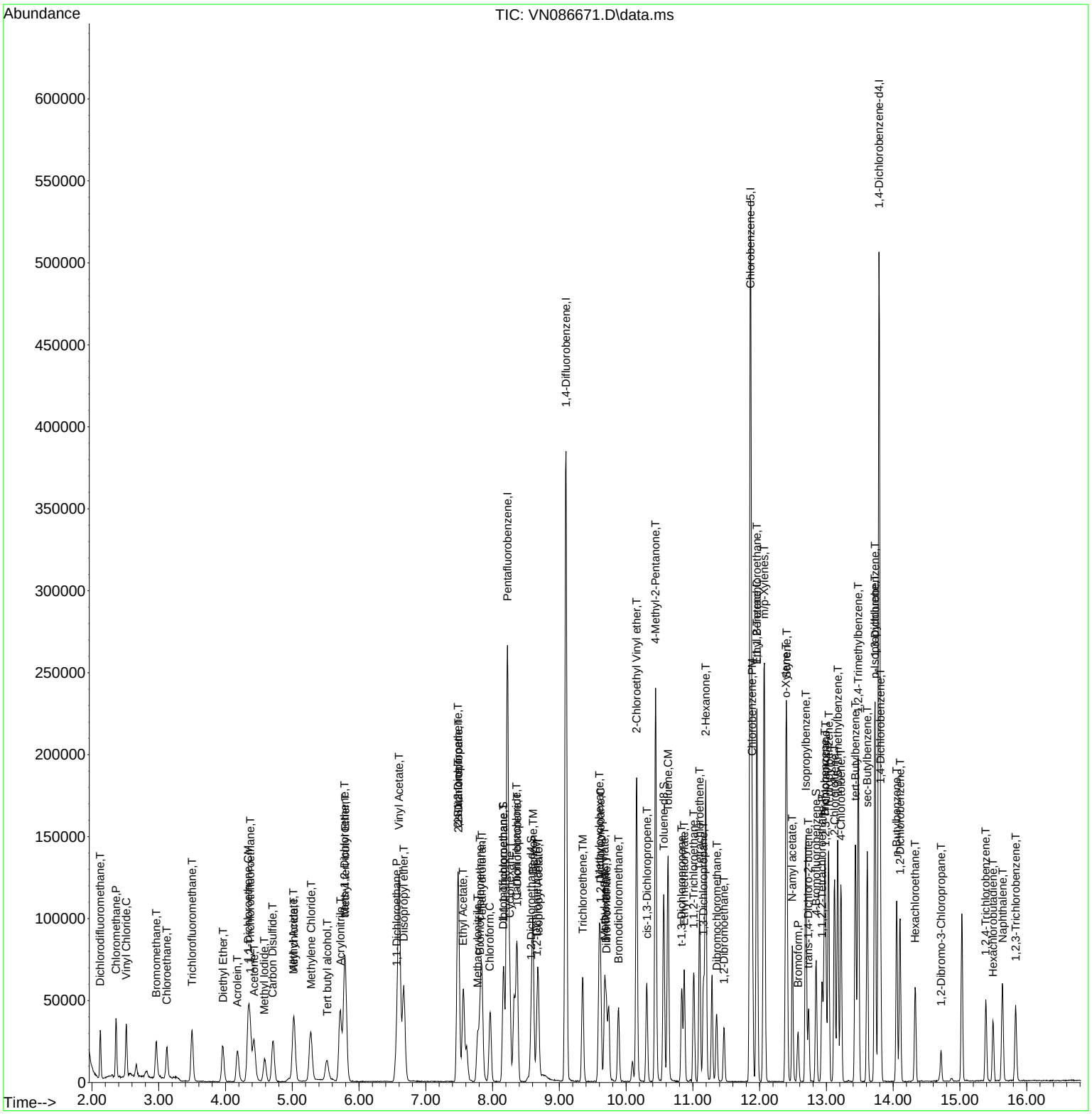
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN051625\
Data File : VN086671.D
Acq On : 16 May 2025 17:19
Operator : JC\MD
Sample : VSTDICC010
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 17 00:13:57 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N051625W.M
Quant Title : SW846 8260
QLast Update : Sat May 17 00:09:38 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

Reviewed By :John Carlone 05/19/2025
Supervised By :Mahesh Dadoda 05/19/2025



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN051625\
Data File : VN086672.D
Acq On : 16 May 2025 17:43
Operator : JC\MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 14 Sample Multiplier: 1

Quant Time: May 17 00:15:03 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N051625W.M
Quant Title : SW846 8260
QLast Update : Sat May 17 00:09:38 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

Reviewed By :John Carlone 05/19/2025
Supervised By :Mahesh Dadoda 05/19/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.218	168	197408	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	359594	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	330521	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	143784	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	54239	19.085	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	38.160%#		
35) Dibromofluoromethane	8.165	113	41801	23.360	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	46.720%#		
50) Toluene-d8	10.565	98	177303	19.879	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	39.760%#		
62) 4-Bromofluorobenzene	12.847	95	62323	19.235	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	38.460%#		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.124	85	37640	16.047	ug/l	97
3) Chloromethane	2.359	50	60191	17.604	ug/l	97
4) Vinyl Chloride	2.512	62	56269	17.470	ug/l	98
5) Bromomethane	2.947	94	32779	21.896	ug/l	98
6) Chloroethane	3.118	64	38167	17.756	ug/l	95
7) Trichlorofluoromethane	3.495	101	70950	19.676	ug/l	96
8) Diethyl Ether	3.959	74	29534	18.929	ug/l	99
9) 1,1,2-Trichlorotrifluo...	4.365	101	42920	19.720	ug/l	99
10) Methyl Iodide	4.589	142	51783	21.291	ug/l	98
11) Tert butyl alcohol	5.512	59	49484	95.074	ug/l	100
12) 1,1-Dichloroethene	4.336	96	44017	18.962	ug/l	97
13) Acrolein	4.177	56	48522	136.813	ug/l	99
14) Allyl chloride	5.024	41	68204	16.792	ug/l	99
15) Acrylonitrile	5.718	53	131858	102.437	ug/l	99
16) Acetone	4.424	43	101424	89.021	ug/l	98
17) Carbon Disulfide	4.712	76	123380	17.760	ug/l	99
18) Methyl Acetate	5.024	43	53481	15.926	ug/l	99
19) Methyl tert-butyl Ether	5.794	73	155717	18.369	ug/l	98
20) Methylene Chloride	5.271	84	53580	20.187	ug/l	96
21) trans-1,2-Dichloroethene	5.783	96	48109	19.791	ug/l	99
22) Diisopropyl ether	6.671	45	158492	17.885	ug/l	97
23) Vinyl Acetate	6.600	43	654499	104.479	ug/l	99
24) 1,1-Dichloroethane	6.565	63	90501	19.175	ug/l	99
25) 2-Butanone	7.482	43	163572	92.615	ug/l	100
26) 2,2-Dichloropropane	7.488	77	74939	17.911	ug/l	99
27) cis-1,2-Dichloroethene	7.482	96	59558	19.761	ug/l	99
28) Bromochloromethane	7.806	49	39958	19.800	ug/l	100
29) Tetrahydrofuran	7.835	42	110374	93.475	ug/l	99
30) Chloroform	7.965	83	92604	19.916	ug/l	97
31) Cyclohexane	8.253	56	80800	17.665	ug/l	98
32) 1,1,1-Trichloroethane	8.171	97	77893	19.565	ug/l	98
36) 1,1-Dichloropropene	8.371	75	64751	19.476	ug/l	100
37) Ethyl Acetate	7.559	43	65633	18.770	ug/l	99
38) Carbon Tetrachloride	8.359	117	66190	20.795	ug/l	99
39) Methylcyclohexane	9.600	83	71304	18.227	ug/l	99
40) Benzene	8.606	78	213460	20.002	ug/l	100

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN051625\
Data File : VN086672.D
Acq On : 16 May 2025 17:43
Operator : JC\MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 14 Sample Multiplier: 1

Quant Time: May 17 00:15:03 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N051625W.M
Quant Title : SW846 8260
QLast Update : Sat May 17 00:09:38 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

Reviewed By :John Carlone 05/19/2025
Supervised By :Mahesh Dadoda 05/19/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.777	41	35706	17.809	ug/l		100
42) 1,2-Dichloroethane	8.665	62	67134	19.757	ug/l		100
43) Isopropyl Acetate	8.688	43	122489	14.669	ug/l		98
44) Trichloroethene	9.347	130	51930	20.468	ug/l		99
45) 1,2-Dichloropropane	9.618	63	52246	20.108	ug/l		98
46) Dibromomethane	9.706	93	35245	21.150	ug/l		99
47) Bromodichloromethane	9.882	83	71409	19.877	ug/l		98
48) Methyl methacrylate	9.676	41	53023	17.506	ug/l		98
49) 1,4-Dioxane	9.694	88	21528	401.824	ug/l		98
51) 4-Methyl-2-Pentanone	10.441	43	343562	96.661	ug/l		99
52) Toluene	10.629	92	137539	20.659	ug/l		100
53) t-1,3-Dichloropropene	10.835	75	76705	19.291	ug/l		97
54) cis-1,3-Dichloropropene	10.312	75	82783	18.925	ug/l		98
55) 1,1,2-Trichloroethane	11.012	97	49729	20.709	ug/l		98
56) Ethyl methacrylate	10.871	69	82716	18.880	ug/l		97
57) 1,3-Dichloropropane	11.159	76	87454	20.572	ug/l		99
58) 2-Chloroethyl Vinyl ether	10.159	63	179575	87.281	ug/l		99
59) 2-Hexanone	11.194	43	257013	97.403	ug/l		99
60) Dibromochloromethane	11.359	129	53776	20.466	ug/l		98
61) 1,2-Dibromoethane	11.465	107	50846	20.921	ug/l		98
64) Tetrachloroethene	11.100	164	51785	20.381	ug/l		96
65) Chlorobenzene	11.888	112	150439	20.366	ug/l		99
66) 1,1,1,2-Tetrachloroethane	11.959	131	48349	19.851	ug/l		99
67) Ethyl Benzene	11.959	91	260721	19.673	ug/l		100
68) m/p-Xylenes	12.065	106	201601	40.507	ug/l		100
69) o-Xylene	12.394	106	100301	20.298	ug/l		97
70) Styrene	12.406	104	166436	20.301	ug/l		99
71) Bromoform	12.576	173	35068	19.141	ug/l	#	97
73) Isopropylbenzene	12.694	105	238751	20.455	ug/l		99
74) N-amyl acetate	12.494	43	100018	17.465	ug/l		99
75) 1,1,2,2-Tetrachloroethane	12.935	83	72469	21.374	ug/l		98
76) 1,2,3-Trichloropropane	12.988	75	70466m	20.815	ug/l		
77) Bromobenzene	12.976	156	57601	22.016	ug/l		99
78) n-propylbenzene	13.035	91	274906	20.038	ug/l		100
79) 2-Chlorotoluene	13.123	91	175756	20.369	ug/l		100
80) 1,3,5-Trimethylbenzene	13.170	105	191549	20.048	ug/l		100
81) trans-1,4-Dichloro-2-b...	12.735	75	29065	20.670	ug/l		95
82) 4-Chlorotoluene	13.217	91	176501	20.664	ug/l		98
83) tert-Butylbenzene	13.435	119	168468	20.324	ug/l		98
84) 1,2,4-Trimethylbenzene	13.482	105	192028	19.778	ug/l		98
85) sec-Butylbenzene	13.612	105	223581	19.574	ug/l		99
86) p-Isopropyltoluene	13.723	119	183908	19.537	ug/l		100
87) 1,3-Dichlorobenzene	13.729	146	99754	20.377	ug/l		98
88) 1,4-Dichlorobenzene	13.812	146	100717	20.473	ug/l		99
89) n-Butylbenzene	14.053	91	151273	18.306	ug/l		98
90) Hexachloroethane	14.329	117	30231	19.092	ug/l		99
91) 1,2-Dichlorobenzene	14.100	146	95188	20.058	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	14.717	75	11492	17.115	ug/l		97
93) 1,2,4-Trichlorobenzene	15.388	180	41411	18.515	ug/l		98
94) Hexachlorobutadiene	15.494	225	16213	19.071	ug/l		99
95) Naphthalene	15.635	128	139495	17.571	ug/l		100
96) 1,2,3-Trichlorobenzene	15.835	180	38790	18.236	ug/l		98

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN051625\
Data File : VN086672.D
Acq On : 16 May 2025 17:43
Operator : JC\MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

Reviewed By :John Carlone 05/19/2025
Supervised By :Mahesh Dadoda 05/19/2025

Quant Time: May 17 00:15:03 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N051625W.M
Quant Title : SW846 8260
QLast Update : Sat May 17 00:09:38 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

(#) = qualifier out of range (m) = manual integration (+) = signals summed

ICAL Form

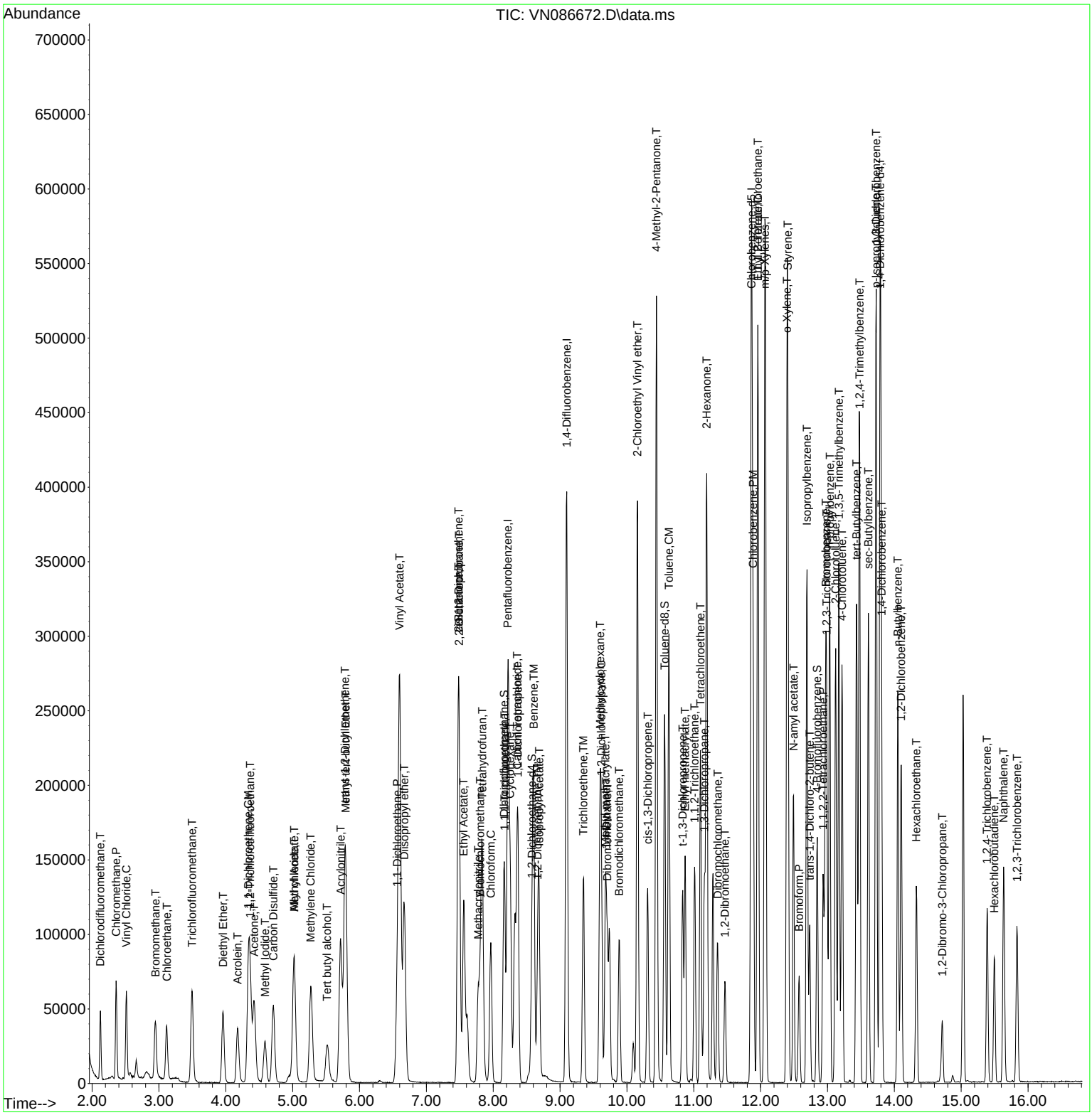
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN051625\
Data File : VN086672.D
Acq On : 16 May 2025 17:43
Operator : JC\MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 14 Sample Multiplier: 1

Quant Time: May 17 00:15:03 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N051625W.M
Quant Title : SW846 8260
QLast Update : Sat May 17 00:09:38 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

Reviewed By :John Carlone 05/19/2025
Supervised By :Mahesh Dadoda 05/19/2025



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN051625\
Data File : VN086673.D
Acq On : 16 May 2025 18:08
Operator : JC\MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 05/19/2025
Supervised By :Mahesh Dadoda 05/19/2025

Quant Time: May 17 00:16:05 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N051625W.M
Quant Title : SW846 8260
QLast Update : Sat May 17 00:09:38 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.224	168	200680	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	366335	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	333195	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	159539	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	139132	48.157	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 96.320%			
35) Dibromofluoromethane	8.165	113	109307	59.961	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 119.920%			
50) Toluene-d8	10.565	98	458089	50.416	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 100.840%			
62) 4-Bromofluorobenzene	12.847	95	164814	49.931	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 99.860%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.124	85	120236	50.424	ug/l	100
3) Chloromethane	2.359	50	156934	45.149	ug/l	100
4) Vinyl Chloride	2.512	62	151154	46.165	ug/l	100
5) Bromomethane	2.942	94	80874	53.143	ug/l	100
6) Chloroethane	3.112	64	93444	42.763	ug/l	100
7) Trichlorofluoromethane	3.495	101	176535	48.159	ug/l	100
8) Diethyl Ether	3.959	74	72328	45.601	ug/l	100
9) 1,1,2-Trichlorotrifluo...	4.371	101	106022	47.918	ug/l	100
10) Methyl Iodide	4.583	142	130592	52.819	ug/l	100
11) Tert butyl alcohol	5.518	59	122272	231.093	ug/l	100
12) 1,1-Dichloroethene	4.336	96	109886	46.567	ug/l	100
13) Acrolein	4.177	56	134375	372.708	ug/l	100
14) Allyl chloride	5.018	41	165431	40.065	ug/l	100
15) Acrylonitrile	5.718	53	312458	238.782	ug/l	100
16) Acetone	4.424	43	243902	210.585	ug/l	100
17) Carbon Disulfide	4.712	76	309553	43.833	ug/l	100
18) Methyl Acetate	5.018	43	132976	38.953	ug/l	100
19) Methyl tert-butyl Ether	5.789	73	383825	44.540	ug/l	100
20) Methylene Chloride	5.271	84	126581	46.913	ug/l	100
21) trans-1,2-Dichloroethene	5.783	96	115816	46.868	ug/l	100
22) Diisopropyl ether	6.665	45	385688	42.813	ug/l	100
23) Vinyl Acetate	6.600	43	1462943	229.724	ug/l	100
24) 1,1-Dichloroethane	6.571	63	221538	46.174	ug/l	100
25) 2-Butanone	7.477	43	402916	224.413	ug/l	100
26) 2,2-Dichloropropane	7.489	77	178757	42.029	ug/l	100
27) cis-1,2-Dichloroethene	7.483	96	142862	46.629	ug/l	100
28) Bromochloromethane	7.812	49	101861	49.651	ug/l	100
29) Tetrahydrofuran	7.836	42	265547	221.224	ug/l	100
30) Chloroform	7.959	83	219404	46.418	ug/l	100
31) Cyclohexane	8.253	56	197288	42.429	ug/l	100
32) 1,1,1-Trichloroethane	8.165	97	189597	46.845	ug/l	100
36) 1,1-Dichloropropene	8.365	75	159488	47.088	ug/l	100
37) Ethyl Acetate	7.559	43	159707	44.832	ug/l	100
38) Carbon Tetrachloride	8.359	117	157560	48.589	ug/l	100
39) Methylcyclohexane	9.600	83	176457	44.277	ug/l	100
40) Benzene	8.606	78	513727	47.252	ug/l	100

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN051625\
Data File : VN086673.D
Acq On : 16 May 2025 18:08
Operator : JC\MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 05/19/2025
Supervised By :Mahesh Dadoda 05/19/2025

Quant Time: May 17 00:16:05 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N051625W.M
Quant Title : SW846 8260
QLast Update : Sat May 17 00:09:38 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.777	41	87794	42.982	ug/l		100
42) 1,2-Dichloroethane	8.665	62	160313	46.310	ug/l		100
43) Isopropyl Acetate	8.688	43	282433	33.201	ug/l		100
44) Trichloroethene	9.347	130	125647	48.612	ug/l		100
45) 1,2-Dichloropropane	9.618	63	122982	46.461	ug/l		100
46) Dibromomethane	9.706	93	83377	49.113	ug/l		100
47) Bromodichloromethane	9.883	83	172626	47.166	ug/l		100
48) Methyl methacrylate	9.677	41	128661	41.698	ug/l		100
49) 1,4-Dioxane	9.694	88	54709	1002.364	ug/l		100
51) 4-Methyl-2-Pentanone	10.441	43	825673	228.029	ug/l		100
52) Toluene	10.630	92	324906	47.903	ug/l		100
53) t-1,3-Dichloropropene	10.835	75	188352	46.497	ug/l		100
54) cis-1,3-Dichloropropene	10.312	75	200078	44.899	ug/l		100
55) 1,1,2-Trichloroethane	11.012	97	117677	48.104	ug/l		100
56) Ethyl methacrylate	10.871	69	204115	45.731	ug/l		100
57) 1,3-Dichloropropane	11.159	76	205784	47.516	ug/l		100
58) 2-Chloroethyl Vinyl ether	10.159	63	473490	225.901	ug/l		100
59) 2-Hexanone	11.194	43	609102	226.589	ug/l		100
60) Dibromochloromethane	11.359	129	127861	47.766	ug/l		100
61) 1,2-Dibromoethane	11.465	107	122201	49.356	ug/l		100
64) Tetrachloroethene	11.100	164	122991	48.018	ug/l		100
65) Chlorobenzene	11.888	112	353206	47.433	ug/l		100
66) 1,1,1,2-Tetrachloroethane	11.959	131	116442	47.425	ug/l		100
67) Ethyl Benzene	11.959	91	621554	46.525	ug/l		100
68) m/p-Xylenes	12.065	106	477853	95.244	ug/l		100
69) o-Xylene	12.394	106	240345	48.249	ug/l		100
70) Styrene	12.406	104	399975	48.396	ug/l		100
71) Bromoform	12.576	173	86917	47.062	ug/l	#	100
73) Isopropylbenzene	12.694	105	564854	43.614	ug/l		100
74) N-amyl acetate	12.488	43	240871	37.908	ug/l		100
75) 1,1,2,2-Tetrachloroethane	12.935	83	168088	44.680	ug/l		100
76) 1,2,3-Trichloropropane	12.988	75	165513m	44.062	ug/l		
77) Bromobenzene	12.976	156	139072	47.906	ug/l		100
78) n-propylbenzene	13.029	91	669285	43.966	ug/l		100
79) 2-Chlorotoluene	13.123	91	425476	44.441	ug/l		100
80) 1,3,5-Trimethylbenzene	13.171	105	467786	44.125	ug/l		100
81) trans-1,4-Dichloro-2-b...	12.735	75	71696	45.952	ug/l		100
82) 4-Chlorotoluene	13.218	91	423764	44.713	ug/l		100
83) tert-Butylbenzene	13.435	119	398675	43.347	ug/l		100
84) 1,2,4-Trimethylbenzene	13.476	105	475848	44.171	ug/l		100
85) sec-Butylbenzene	13.612	105	551208	43.492	ug/l		100
86) p-Isopropyltoluene	13.723	119	462804	44.309	ug/l		100
87) 1,3-Dichlorobenzene	13.729	146	255624	47.060	ug/l		100
88) 1,4-Dichlorobenzene	13.806	146	252548	46.266	ug/l		100
89) n-Butylbenzene	14.053	91	389739	42.505	ug/l		100
90) Hexachloroethane	14.329	117	75794	43.139	ug/l		100
91) 1,2-Dichlorobenzene	14.100	146	247292	46.963	ug/l		100
92) 1,2-Dibromo-3-Chloropr...	14.717	75	32007	42.959	ug/l		100
93) 1,2,4-Trichlorobenzene	15.388	180	109515	44.128	ug/l		100
94) Hexachlorobutadiene	15.500	225	41916	44.437	ug/l		100
95) Naphthalene	15.635	128	385716	43.787	ug/l		100
96) 1,2,3-Trichlorobenzene	15.835	180	104176	44.139	ug/l		100

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN051625\
Data File : VN086673.D
Acq On : 16 May 2025 18:08
Operator : JC\MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 05/19/2025
Supervised By :Mahesh Dadoda 05/19/2025

Quant Time: May 17 00:16:05 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N051625W.M
Quant Title : SW846 8260
QLast Update : Sat May 17 00:09:38 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

(#) = qualifier out of range (m) = manual integration (+) = signals summed

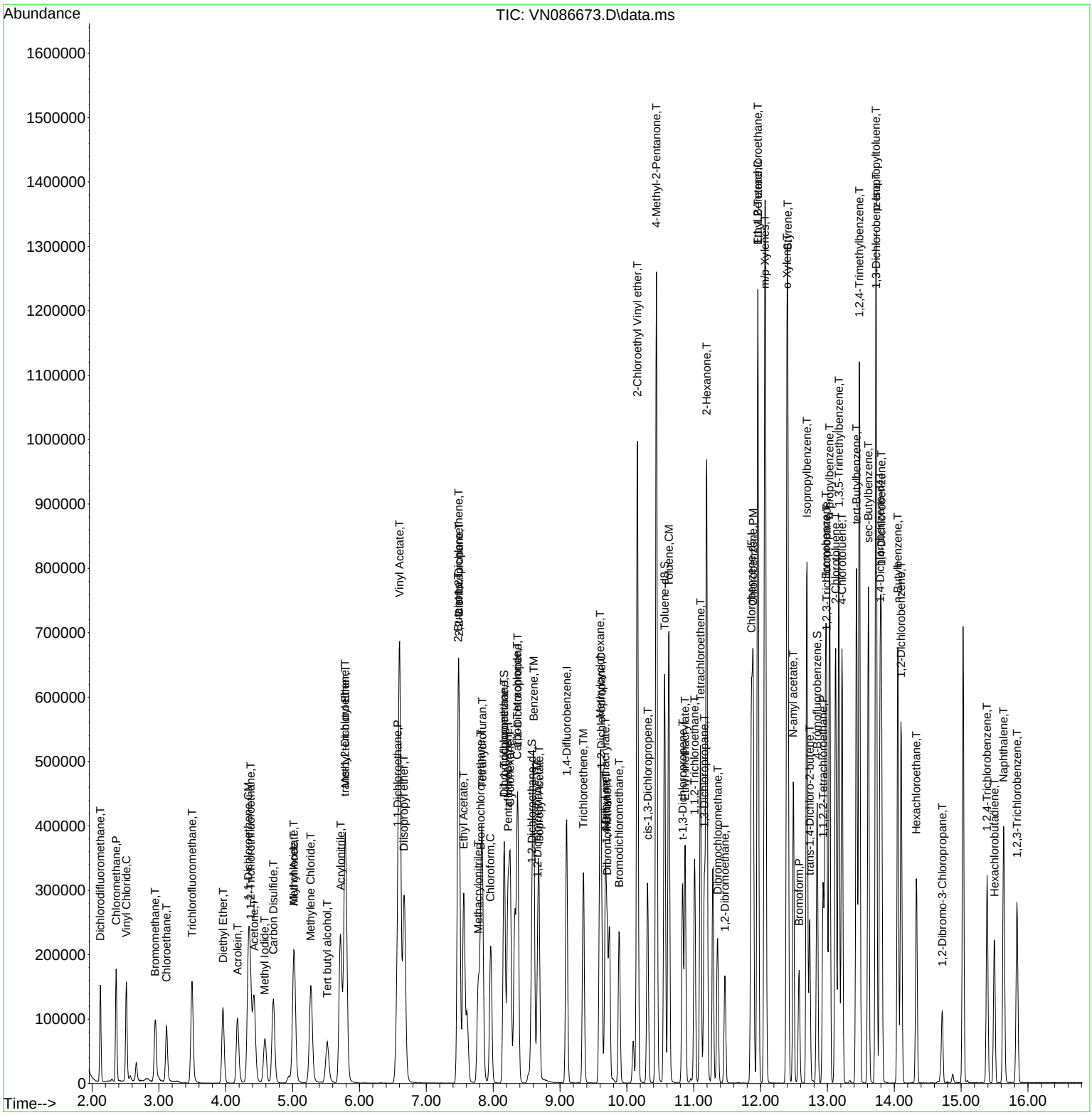
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN051625\
Data File : VN086673.D
Acq On : 16 May 2025 18:08
Operator : JC\MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 15 Sample Multiplier: 1

Quant Time: May 17 00:16:05 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N051625W.M
Quant Title : SW846 8260
QLast Update : Sat May 17 00:09:38 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 05/19/2025
Supervised By :Mahesh Dadoda 05/19/2025



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN051625\
Data File : VN086674.D
Acq On : 16 May 2025 18:32
Operator : JC\MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 16 Sample Multiplier: 1

Quant Time: May 17 00:17:09 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N051625W.M
Quant Title : SW846 8260
QLast Update : Sat May 17 00:09:38 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

Reviewed By :John Carlone 05/19/2025
Supervised By :Mahesh Dadoda 05/19/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.224	168	212535	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	385603	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	356581	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	159823	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	296706	96.970	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 193.940%#			
35) Dibromofluoromethane	8.165	113	239789	124.964	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 249.920%#			
50) Toluene-d8	10.565	98	1021539	106.809	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 213.620%#			
62) 4-Bromofluorobenzene	12.847	95	370788	106.718	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 213.440%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.124	85	272626	107.954	ug/l	99
3) Chloromethane	2.359	50	361119	98.097	ug/l	98
4) Vinyl Chloride	2.512	62	336647	97.082	ug/l	99
5) Bromomethane	2.930	94	175755	109.049	ug/l	97
6) Chloroethane	3.106	64	208872	90.254	ug/l	96
7) Trichlorofluoromethane	3.494	101	393305	101.309	ug/l	96
8) Diethyl Ether	3.959	74	162276	96.605	ug/l	99
9) 1,1,2-Trichlorotrifluo...	4.365	101	233520	99.655	ug/l	99
10) Methyl Iodide	4.583	142	299898	114.531	ug/l	99
11) Tert butyl alcohol	5.518	59	267486	477.347	ug/l	98
12) 1,1-Dichloroethene	4.336	96	247923	99.203	ug/l	98
13) Acrolein	4.177	56	295287	773.336	ug/l	99
14) Allyl chloride	5.018	41	371902	85.045	ug/l	99
15) Acrylonitrile	5.712	53	701724	506.348	ug/l	99
16) Acetone	4.424	43	539112	439.506	ug/l	99
17) Carbon Disulfide	4.712	76	710987	95.061	ug/l	100
18) Methyl Acetate	5.018	43	291114	80.520	ug/l	99
19) Methyl tert-butyl Ether	5.794	73	842311	92.293	ug/l	99
20) Methylene Chloride	5.271	84	290581	101.686	ug/l	97
21) trans-1,2-Dichloroethene	5.788	96	260585	99.571	ug/l	99
22) Diisopropyl ether	6.671	45	840075	88.050	ug/l	98
23) Vinyl Acetate	6.600	43	3184524	472.168	ug/l	99
24) 1,1-Dichloroethane	6.565	63	491576	96.742	ug/l	99
25) 2-Butanone	7.477	43	887511	466.747	ug/l	100
26) 2,2-Dichloropropane	7.488	77	391899	87.002	ug/l	100
27) cis-1,2-Dichloroethene	7.482	96	320382	98.737	ug/l	99
28) Bromochloromethane	7.812	49	212881	97.978	ug/l	98
29) Tetrahydrofuran	7.835	42	582167	457.944	ug/l	100
30) Chloroform	7.965	83	481570	96.199	ug/l	98
31) Cyclohexane	8.253	56	430663	87.454	ug/l	98
32) 1,1,1-Trichloroethane	8.165	97	412582	96.254	ug/l	98
36) 1,1-Dichloropropene	8.365	75	358680	100.608	ug/l	99
37) Ethyl Acetate	7.559	43	345729	92.202	ug/l	100
38) Carbon Tetrachloride	8.359	117	350376	102.652	ug/l	99
39) Methylcyclohexane	9.600	83	395616	94.309	ug/l	99
40) Benzene	8.606	78	1146502	100.185	ug/l	100

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN051625\
Data File : VN086674.D
Acq On : 16 May 2025 18:32
Operator : JC\MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 16 Sample Multiplier: 1

Quant Time: May 17 00:17:09 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N051625W.M
Quant Title : SW846 8260
QLast Update : Sat May 17 00:09:38 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

Reviewed By :John Carlone 05/19/2025
Supervised By :Mahesh Dadoda 05/19/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.777	41	189373	88.081	ug/l		98
42) 1,2-Dichloroethane	8.665	62	348779	95.719	ug/l		99
43) Isopropyl Acetate	8.682	43	601666	67.195	ug/l		98
44) Trichloroethene	9.347	130	281707	103.544	ug/l		99
45) 1,2-Dichloropropane	9.618	63	271732	97.526	ug/l		100
46) Dibromomethane	9.706	93	183465	102.669	ug/l		100
47) Bromodichloromethane	9.888	83	383086	99.439	ug/l		97
48) Methyl methacrylate	9.676	41	282329	86.928	ug/l		99
49) 1,4-Dioxane	9.694	88	112938	1965.825	ug/l		96
51) 4-Methyl-2-Pentanone	10.441	43	1801423	472.646	ug/l		98
52) Toluene	10.629	92	729998	102.251	ug/l		99
53) t-1,3-Dichloropropene	10.835	75	427269	100.206	ug/l		100
54) cis-1,3-Dichloropropene	10.312	75	451979	96.359	ug/l		98
55) 1,1,2-Trichloroethane	11.012	97	260447	101.145	ug/l		99
56) Ethyl methacrylate	10.870	69	460358	97.988	ug/l		99
57) 1,3-Dichloropropane	11.159	76	458200	100.514	ug/l		100
58) 2-Chloroethyl Vinyl ether	10.159	63	1060521	480.691	ug/l		100
59) 2-Hexanone	11.194	43	1333834	471.399	ug/l		98
60) Dibromochloromethane	11.359	129	295955	105.038	ug/l		99
61) 1,2-Dibromoethane	11.465	107	273192	104.827	ug/l		99
64) Tetrachloroethene	11.100	164	279652	102.021	ug/l		98
65) Chlorobenzene	11.888	112	805636	101.096	ug/l		99
66) 1,1,1,2-Tetrachloroethane	11.959	131	261746	99.614	ug/l		99
67) Ethyl Benzene	11.959	91	1432940	100.224	ug/l		99
68) m/p-Xylenes	12.070	106	1104589	205.723	ug/l		99
69) o-Xylene	12.394	106	541462	101.570	ug/l		98
70) Styrene	12.406	104	918616	103.860	ug/l		100
71) Bromoform	12.576	173	200330	101.356	ug/l	#	97
73) Isopropylbenzene	12.694	105	1285698	99.096	ug/l		100
74) N-amyl acetate	12.488	43	527018	82.794	ug/l		99
75) 1,1,2,2-Tetrachloroethane	12.935	83	369580	98.064	ug/l		99
76) 1,2,3-Trichloropropane	12.988	75	361465m	96.057	ug/l		
77) Bromobenzene	12.976	156	313717	107.874	ug/l		99
78) n-propylbenzene	13.035	91	1519746	99.656	ug/l		100
79) 2-Chlorotoluene	13.123	91	941604	98.175	ug/l		99
80) 1,3,5-Trimethylbenzene	13.170	105	1040889	98.009	ug/l		100
81) trans-1,4-Dichloro-2-b...	12.735	75	151480	96.916	ug/l		95
82) 4-Chlorotoluene	13.217	91	946308	99.671	ug/l		99
83) tert-Butylbenzene	13.435	119	887979	96.375	ug/l		99
84) 1,2,4-Trimethylbenzene	13.482	105	1053192	97.589	ug/l		100
85) sec-Butylbenzene	13.611	105	1238888	97.578	ug/l		100
86) p-Isopropyltoluene	13.723	119	1042829	99.663	ug/l		99
87) 1,3-Dichlorobenzene	13.729	146	548281	100.759	ug/l		99
88) 1,4-Dichlorobenzene	13.811	146	547029	100.036	ug/l		99
89) n-Butylbenzene	14.053	91	885854	96.440	ug/l		100
90) Hexachloroethane	14.329	117	177725	100.975	ug/l		99
91) 1,2-Dichlorobenzene	14.106	146	511274	96.922	ug/l		100
92) 1,2-Dibromo-3-Chloropr...	14.717	75	68755	92.118	ug/l		98
93) 1,2,4-Trichlorobenzene	15.388	180	249837	100.491	ug/l		99
94) Hexachlorobutadiene	15.494	225	90372	95.636	ug/l		97
95) Naphthalene	15.635	128	871550	98.763	ug/l		100
96) 1,2,3-Trichlorobenzene	15.835	180	236333	99.955	ug/l		100

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN051625\
Data File : VN086674.D
Acq On : 16 May 2025 18:32
Operator : JC\MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 16 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

Reviewed By :John Carlone 05/19/2025
Supervised By :Mahesh Dadoda 05/19/2025

Quant Time: May 17 00:17:09 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N051625W.M
Quant Title : SW846 8260
QLast Update : Sat May 17 00:09:38 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

(#) = qualifier out of range (m) = manual integration (+) = signals summed

ICAL Form

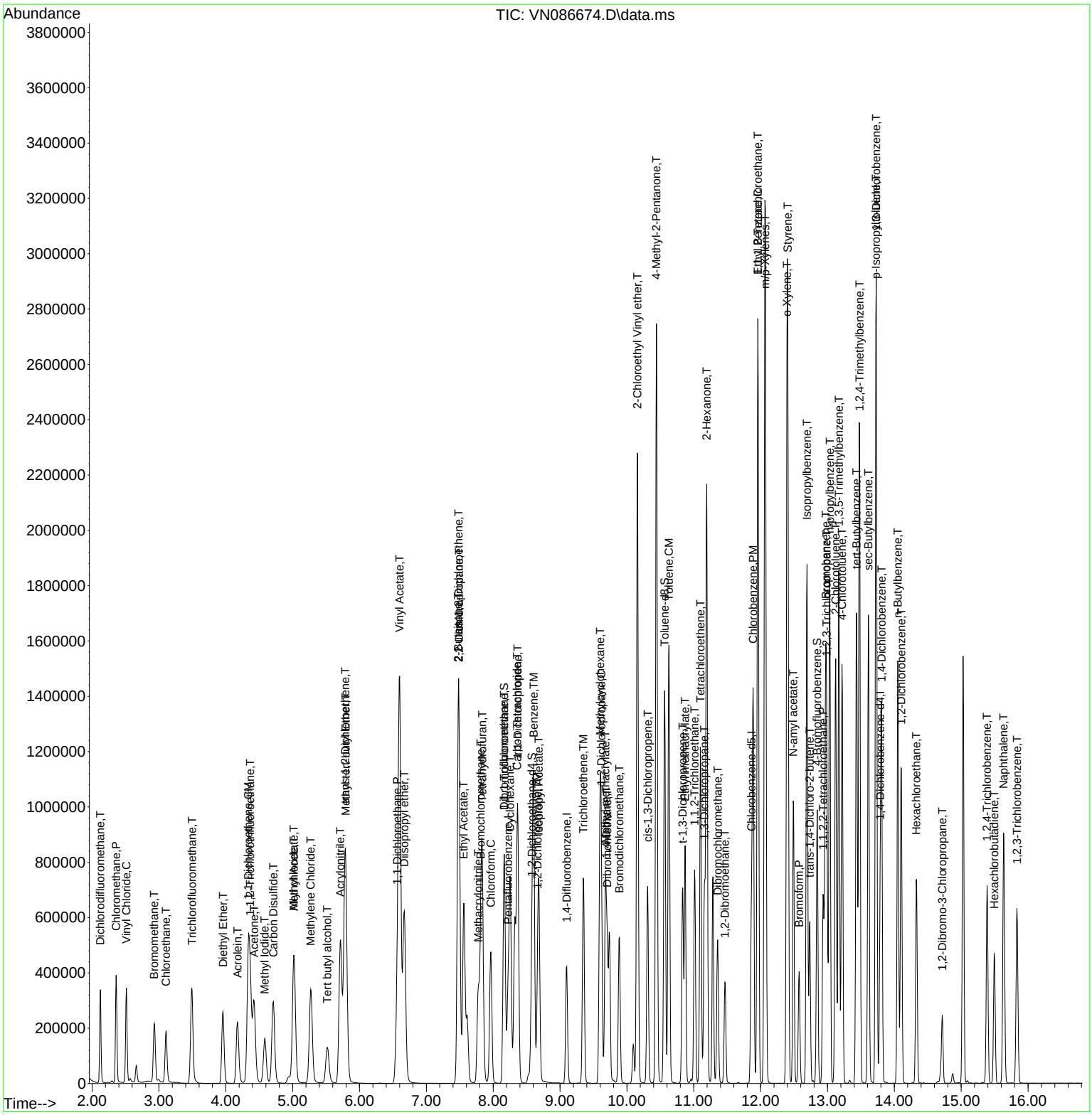
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN051625\
Data File : VN086674.D
Acq On : 16 May 2025 18:32
Operator : JC\MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 16 Sample Multiplier: 1

Quant Time: May 17 00:17:09 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N051625W.M
Quant Title : SW846 8260
QLast Update : Sat May 17 00:09:38 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

Reviewed By :John Carlone 05/19/2025
Supervised By :Mahesh Dadoda 05/19/2025



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN051625\
Data File : VN086676.D
Acq On : 16 May 2025 19:20
Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
ICVVN051625

Manual Integrations APPROVED

Reviewed By :John Carlone 05/19/2025
Supervised By :Mahesh Dadoda 05/19/2025

Quant Time: May 17 00:49:41 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N051625W.M
Quant Title : SW846 8260
QLast Update : Sat May 17 00:46:13 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.224	168	206060	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	369474	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	337944	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	160071	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	140264	49.261	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 98.520%			
35) Dibromofluoromethane	8.165	113	111929	50.868	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 101.740%			
50) Toluene-d8	10.565	98	473116	51.886	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 103.780%			
62) 4-Bromofluorobenzene	12.847	95	172745	53.653	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 107.300%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.124	85	125665	56.471	ug/l	100
3) Chloromethane	2.359	50	166521	49.474	ug/l	100
4) Vinyl Chloride	2.512	62	153716	50.852	ug/l	97
5) Bromomethane	2.948	94	85316	48.959	ug/l	94
6) Chloroethane	3.112	64	98096	49.538	ug/l	96
7) Trichlorofluoromethane	3.495	101	184202	50.991	ug/l	97
8) Diethyl Ether	3.959	74	75922	50.875	ug/l	100
9) 1,1,2-Trichlorotrifluo...	4.365	101	110896	51.278	ug/l	100
10) Methyl Iodide	4.589	142	139386	51.814	ug/l	98
11) Tert butyl alcohol	5.518	59	126055	243.079	ug/l	100
12) 1,1-Dichloroethene	4.342	96	114026	49.612	ug/l	99
13) Acrolein	4.171	56	131334	236.906	ug/l	100
14) Allyl chloride	5.024	41	169877	48.833	ug/l	99
15) Acrylonitrile	5.718	53	322582	251.235	ug/l	99
16) Acetone	4.424	43	253332	237.847	ug/l	96
17) Carbon Disulfide	4.712	76	325644	51.175	ug/l	99
18) Methyl Acetate	5.018	43	136726	45.864	ug/l	99
19) Methyl tert-butyl Ether	5.789	73	392727	50.183	ug/l	98
20) Methylene Chloride	5.271	84	133075	47.346	ug/l	99
21) trans-1,2-Dichloroethene	5.783	96	120628	49.641	ug/l	98
22) Diisopropyl ether	6.665	45	398433	50.767	ug/l	98
23) Vinyl Acetate	6.600	43	1501158	254.501	ug/l	100
24) 1,1-Dichloroethane	6.565	63	228436	49.576	ug/l	100
25) 2-Butanone	7.477	43	412876	250.854	ug/l	100
26) 2,2-Dichloropropane	7.488	77	179110	47.102	ug/l	99
27) cis-1,2-Dichloroethene	7.483	96	148770	49.878	ug/l	99
28) Bromochloromethane	7.812	49	102816	49.112	ug/l	100
29) Tetrahydrofuran	7.835	42	273939	254.994	ug/l	100
30) Chloroform	7.965	83	223931	48.554	ug/l	97
31) Cyclohexane	8.253	56	202489	47.383	ug/l	98
32) 1,1,1-Trichloroethane	8.165	97	193811	49.842	ug/l	100
36) 1,1-Dichloropropene	8.371	75	166757	51.379	ug/l	100
37) Ethyl Acetate	7.559	43	164737	50.247	ug/l	99
38) Carbon Tetrachloride	8.359	117	162681	50.871	ug/l	97
39) Methylcyclohexane	9.594	83	182529	51.961	ug/l	99
40) Benzene	8.600	78	533304	50.369	ug/l	99

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN051625\
Data File : VN086676.D
Acq On : 16 May 2025 19:20
Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 18 Sample Multiplier: 1

Quant Time: May 17 00:49:41 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N051625W.M
Quant Title : SW846 8260
QLast Update : Sat May 17 00:46:13 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
ICVVN051625

Manual Integrations APPROVED

Reviewed By :John Carlone 05/19/2025
Supervised By :Mahesh Dadoda 05/19/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.771	41	90551	51.153	ug/l		98
42) 1,2-Dichloroethane	8.671	62	165024	50.029	ug/l		99
43) Isopropyl Acetate	8.682	43	298004	45.341	ug/l		100
44) Trichloroethene	9.347	130	129339	50.647	ug/l		98
45) 1,2-Dichloropropane	9.618	63	126955	50.475	ug/l		99
46) Dibromomethane	9.706	93	85276	50.246	ug/l		99
47) Bromodichloromethane	9.882	83	177360	50.719	ug/l		100
48) Methyl methacrylate	9.677	41	131470	51.620	ug/l		99
49) 1,4-Dioxane	9.694	88	57410	1064.544	ug/l		96
51) 4-Methyl-2-Pentanone	10.441	43	841754	253.963	ug/l		99
52) Toluene	10.624	92	338248	51.401	ug/l		100
53) t-1,3-Dichloropropene	10.829	75	194124	52.432	ug/l		99
54) cis-1,3-Dichloropropene	10.306	75	207544	51.351	ug/l		98
55) 1,1,2-Trichloroethane	11.012	97	120996	49.290	ug/l		99
56) Ethyl methacrylate	10.871	69	211241	53.596	ug/l		99
57) 1,3-Dichloropropane	11.159	76	212276	50.196	ug/l		100
58) 2-Chloroethyl Vinyl ether	10.159	63	477348	270.990	ug/l		100
59) 2-Hexanone	11.194	43	631633	260.961	ug/l		100
60) Dibromochloromethane	11.359	129	133981	52.080	ug/l		98
61) 1,2-Dibromoethane	11.465	107	124934	50.647	ug/l		100
64) Tetrachloroethene	11.100	164	127416	49.218	ug/l		97
65) Chlorobenzene	11.888	112	366001	49.389	ug/l		99
66) 1,1,1,2-Tetrachloroethane	11.959	131	118803	49.660	ug/l		100
67) Ethyl Benzene	11.959	91	644463	50.773	ug/l		99
68) m/p-Xylenes	12.065	106	496729	103.321	ug/l		100
69) o-Xylene	12.394	106	244673	51.191	ug/l		99
70) Styrene	12.406	104	414973	53.030	ug/l		100
71) Bromoform	12.576	173	91062	53.523	ug/l	#	97
73) Isopropylbenzene	12.694	105	584704	47.295	ug/l		100
74) N-amyl acetate	12.488	43	247445	47.905	ug/l		99
75) 1,1,2,2-Tetrachloroethane	12.935	83	174276	45.885	ug/l		99
76) 1,2,3-Trichloropropane	12.988	75	166845m	46.088	ug/l		
77) Bromobenzene	12.976	156	143739	46.220	ug/l		100
78) n-propylbenzene	13.029	91	695292	49.006	ug/l		100
79) 2-Chlorotoluene	13.123	91	442834	48.004	ug/l		100
80) 1,3,5-Trimethylbenzene	13.170	105	484744	48.940	ug/l		100
81) trans-1,4-Dichloro-2-b...	12.735	75	68425	47.700	ug/l		97
82) 4-Chlorotoluene	13.217	91	439811	48.122	ug/l		99
83) tert-Butylbenzene	13.435	119	410379	47.509	ug/l		99
84) 1,2,4-Trimethylbenzene	13.476	105	493314	50.014	ug/l		99
85) sec-Butylbenzene	13.612	105	568753	49.105	ug/l		99
86) p-Isopropyltoluene	13.723	119	482931	50.868	ug/l		99
87) 1,3-Dichlorobenzene	13.729	146	263213	48.877	ug/l		99
88) 1,4-Dichlorobenzene	13.812	146	264501	49.573	ug/l		99
89) n-Butylbenzene	14.053	91	408204	51.865	ug/l		99
90) Hexachloroethane	14.329	117	79755	50.631	ug/l		100
91) 1,2-Dichlorobenzene	14.100	146	254715	49.729	ug/l		100
92) 1,2-Dibromo-3-Chloropr...	14.717	75	33507	53.253	ug/l		98
93) 1,2,4-Trichlorobenzene	15.388	180	113245	52.378	ug/l		100
94) Hexachlorobutadiene	15.494	225	44035	49.090	ug/l		97
95) Naphthalene	15.635	128	393211	52.378	ug/l		100
96) 1,2,3-Trichlorobenzene	15.835	180	106918	50.497	ug/l		99

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN051625\
Data File : VN086676.D
Acq On : 16 May 2025 19:20
Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
ICVVN051625

Manual Integrations APPROVED

Reviewed By :John Carlone 05/19/2025
Supervised By :Mahesh Dadoda 05/19/2025

Quant Time: May 17 00:49:41 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N051625W.M
Quant Title : SW846 8260
QLast Update : Sat May 17 00:46:13 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

(#) = qualifier out of range (m) = manual integration (+) = signals summed

ICAL Form

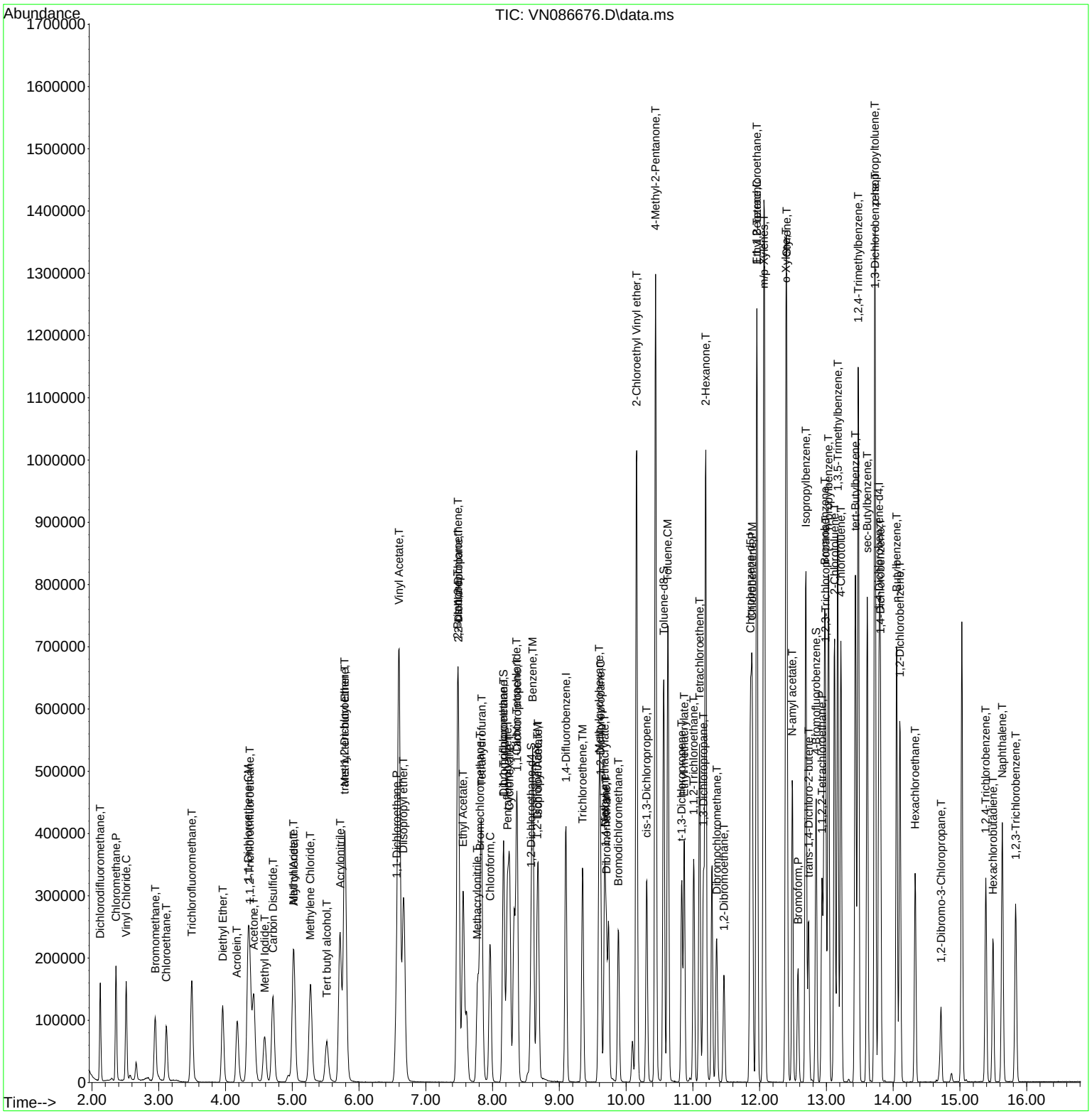
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN051625\
Data File : VN086676.D
Acq On : 16 May 2025 19:20
Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 18 Sample Multiplier: 1

Quant Time: May 17 00:49:41 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N051625W.M
Quant Title : SW846 8260
QLast Update : Sat May 17 00:46:13 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
ICVVN051625

Manual Integrations APPROVED

Reviewed By :John Carlone 05/19/2025
Supervised By :Mahesh Dadoda 05/19/2025



Evaluate Continuing Calibration Report

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN051625\
Data File : VN086676.D
Acq On : 16 May 2025 19:20
Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
ICVVN051625

Quant Time: May 17 00:49:41 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N051625W.M
Quant Title : SW846 8260
QLast Update : Sat May 17 00:46:13 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Pentafluorobenzene	1.000	1.000	0.0	103	0.00
2	T	Dichlorodifluoromethane	0.540	0.610	-13.0	105	0.00
3	P	Chloromethane	0.817	0.808	1.1	106	0.00
4	C	Vinyl Chloride	0.733	0.746	-1.8#	102	0.00
5	T	Bromomethane	0.423	0.414	2.1	105	0.00
6	T	Chloroethane	0.480	0.476	0.8	105	0.00
7	T	Trichlorofluoromethane	0.877	0.894	-1.9	104	0.00
8	T	Diethyl Ether	0.362	0.368	-1.7	105	0.00
9	T	1,1,2-Trichlorotrifluoroeth	0.525	0.538	-2.5	105	0.00
10	T	Methyl Iodide	0.653	0.676	-3.5	107	0.00
11	T	Tert butyl alcohol	0.126	0.122	3.2	103	0.00
12	CM	1,1-Dichloroethene	0.558	0.553	0.9#	104	0.00
13	T	Acrolein	0.135	0.127	5.9	98	0.00
14	T	Allyl chloride	0.844	0.824	2.4	103	0.00
15	T	Acrylonitrile	0.312	0.313	-0.3	103	0.00
16	T	Acetone	0.258	0.246	4.7	104	0.00
17	T	Carbon Disulfide	1.544	1.580	-2.3	105	0.00
18	T	Methyl Acetate	0.723	0.664	8.2	103	0.00
19	T	Methyl tert-butyl Ether	1.899	1.906	-0.4	102	0.00
20	T	Methylene Chloride	0.682	0.646	5.3	105	0.00
21	T	trans-1,2-Dichloroethene	0.590	0.585	0.8	104	0.00
22	T	Diisopropyl ether	1.904	1.934	-1.6	103	0.00
23	T	Vinyl Acetate	1.431	1.457	-1.8	103	0.00
24	P	1,1-Dichloroethane	1.118	1.109	0.8	103	0.00
25	T	2-Butanone	0.399	0.401	-0.5	102	0.00
26	T	2,2-Dichloropropane	0.923	0.869	5.9	100	0.00
27	T	cis-1,2-Dichloroethene	0.724	0.722	0.3	104	0.00
28	T	Bromochloromethane	0.508	0.499	1.8	101	0.00
29	T	Tetrahydrofuran	0.261	0.266	-1.9	103	0.00
30	C	Chloroform	1.119	1.087	2.9#	102	0.00
31	T	Cyclohexane	1.037	0.983	5.2	103	0.00
32	T	1,1,1-Trichloroethane	0.944	0.941	0.3	102	0.00
33	S	1,2-Dichloroethane-d4	0.691	0.681	1.4	101	0.00
34	I	1,4-Difluorobenzene	1.000	1.000	0.0	101	0.00
35	S	Dibromofluoromethane	0.298	0.303	-1.7	102	0.00
36	T	1,1-Dichloropropene	0.439	0.451	-2.7	105	0.00
37	T	Ethyl Acetate	0.444	0.446	-0.5	103	0.00
38	T	Carbon Tetrachloride	0.433	0.440	-1.6	103	0.00
39	T	Methylcyclohexane	0.475	0.494	-4.0	103	0.00
40	TM	Benzene	1.433	1.443	-0.7	104	0.00
41	T	Methacrylonitrile	0.240	0.245	-2.1	103	0.00
42	TM	1,2-Dichloroethane	0.446	0.447	-0.2	103	0.00
43	T	Isopropyl Acetate	0.889	0.807	9.2	106	0.00
44	TM	Trichloroethene	0.346	0.350	-1.2	103	0.00
45	C	1,2-Dichloropropane	0.340	0.344	-1.2#	103	0.00
46	T	Dibromomethane	0.230	0.231	-0.4	102	0.00
47	T	Bromodichloromethane	0.473	0.480	-1.5	103	0.00
48	T	Methyl methacrylate	0.345	0.356	-3.2	102	0.00

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN051625\
Data File : VN086676.D
Acq On : 16 May 2025 19:20
Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
ICVVN051625

Quant Time: May 17 00:49:41 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N051625W.M
Quant Title : SW846 8260
QLast Update : Sat May 17 00:46:13 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
49	T	1,4-Dioxane	0.007	0.008	-14.3	105	0.00
50	S	Toluene-d8	1.234	1.281	-3.8	103	0.00
51	T	4-Methyl-2-Pentanone	0.449	0.456	-1.6	102	0.00
52	CM	Toluene	0.891	0.915	-2.7#	104	0.00
53	T	t-1,3-Dichloropropene	0.501	0.525	-4.8	103	0.00
54	T	cis-1,3-Dichloropropene	0.547	0.562	-2.7	104	0.00
55	T	1,1,2-Trichloroethane	0.332	0.327	1.5	103	0.00
56	T	Ethyl methacrylate	0.533	0.572	-7.3	103	0.00
57	T	1,3-Dichloropropane	0.572	0.575	-0.5	103	0.00
58	T	2-Chloroethyl Vinyl ether	0.238	0.258	-8.4	101	0.00
59	T	2-Hexanone	0.328	0.342	-4.3	104	0.00
60	T	Dibromochloromethane	0.348	0.363	-4.3	105	0.00
61	T	1,2-Dibromoethane	0.334	0.338	-1.2	102	0.00
62	S	4-Bromofluorobenzene	0.436	0.468	-7.3	105	0.00
63	I	Chlorobenzene-d5	1.000	1.000	0.0	101	0.00
64	T	Tetrachloroethene	0.383	0.377	1.6	104	0.00
65	PM	Chlorobenzene	1.096	1.083	1.2	104	0.00
66	T	1,1,1,2-Tetrachloroethane	0.354	0.352	0.6	102	0.00
67	C	Ethyl Benzene	1.878	1.907	-1.5#	104	0.00
68	T	m/p-Xylenes	0.711	0.735	-3.4	104	0.00
69	T	o-Xylene	0.707	0.724	-2.4	102	0.00
70	T	Styrene	1.158	1.228	-6.0	104	0.00
71	P	Bromoform	0.252	0.269	-6.7	105	0.00
72	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	100	0.00
73	T	Isopropylbenzene	3.862	3.653	5.4	104	0.00
74	T	N-amyl acetate	1.613	1.546	4.2	103	0.00
75	P	1,1,2,2-Tetrachloroethane	1.186	1.089	8.2	104	0.00
76	T	1,2,3-Trichloropropane	1.131	1.042	7.9	101	0.00
77	T	Bromobenzene	0.971	0.898	7.5	103	0.00
78	T	n-propylbenzene	4.432	4.344	2.0	104	0.00
79	T	2-Chlorotoluene	2.882	2.766	4.0	104	0.00
80	T	1,3,5-Trimethylbenzene	3.094	3.028	2.1	104	0.00
81	T	trans-1,4-Dichloro-2-butene	0.448	0.427	4.7	95	0.00
82	T	4-Chlorotoluene	2.855	2.748	3.7	104	0.00
83	T	tert-Butylbenzene	2.698	2.564	5.0	103	0.00
84	T	1,2,4-Trimethylbenzene	3.081	3.082	-0.0	104	0.00
85	T	sec-Butylbenzene	3.618	3.553	1.8	103	0.00
86	T	p-Isopropyltoluene	2.965	3.017	-1.8	104	0.00
87	T	1,3-Dichlorobenzene	1.682	1.644	2.3	103	0.00
88	T	1,4-Dichlorobenzene	1.667	1.652	0.9	105	0.00
89	T	n-Butylbenzene	2.458	2.550	-3.7	105	0.00
90	T	Hexachloroethane	0.492	0.498	-1.2	105	0.00
91	T	1,2-Dichlorobenzene	1.600	1.591	0.6	103	0.00
92	T	1,2-Dibromo-3-Chloropropane	0.197	0.209	-6.1	105	0.00
93	T	1,2,4-Trichlorobenzene	0.675	0.707	-4.7	103	0.00
94	T	Hexachlorobutadiene	0.280	0.275	1.8	105	0.00
95	T	Naphthalene	2.345	2.456	-4.7	102	0.00

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN051625\
Data File : VN086676.D
Acq On : 16 May 2025 19:20
Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
ICVVN051625

Quant Time: May 17 00:49:41 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N051625W.M
Quant Title : SW846 8260
QLast Update : Sat May 17 00:46:13 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	0.661	0.668	-1.1	103	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Evaluate Continuing Calibration Report

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN051625\
Data File : VN086676.D
Acq On : 16 May 2025 19:20
Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
ICVVN051625

Quant Time: May 17 00:49:41 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N051625W.M
Quant Title : SW846 8260
QLast Update : Sat May 17 00:46:13 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Pentafluorobenzene	50.000	50.000	0.0	103	0.00
2	T	Dichlorodifluoromethane	50.000	56.471	-12.9	105	0.00
3	P	Chloromethane	50.000	49.474	1.1	106	0.00
4	C	Vinyl Chloride	50.000	50.852	-1.7#	102	0.00
5	T	Bromomethane	50.000	48.959	2.1	105	0.00
6	T	Chloroethane	50.000	49.538	0.9	105	0.00
7	T	Trichlorofluoromethane	50.000	50.991	-2.0	104	0.00
8	T	Diethyl Ether	50.000	50.875	-1.8	105	0.00
9	T	1,1,2-Trichlorotrifluoroeth	50.000	51.278	-2.6	105	0.00
10	T	Methyl Iodide	50.000	51.814	-3.6	107	0.00
11	T	Tert butyl alcohol	250.000	243.079	2.8	103	0.00
12	CM	1,1-Dichloroethene	50.000	49.612	0.8#	104	0.00
13	T	Acrolein	250.000	236.906	5.2	98	0.00
14	T	Allyl chloride	50.000	48.833	2.3	103	0.00
15	T	Acrylonitrile	250.000	251.235	-0.5	103	0.00
16	T	Acetone	250.000	237.847	4.9	104	0.00
17	T	Carbon Disulfide	50.000	51.175	-2.3	105	0.00
18	T	Methyl Acetate	50.000	45.864	8.3	103	0.00
19	T	Methyl tert-butyl Ether	50.000	50.183	-0.4	102	0.00
20	T	Methylene Chloride	50.000	47.346	5.3	105	0.00
21	T	trans-1,2-Dichloroethene	50.000	49.641	0.7	104	0.00
22	T	Diisopropyl ether	50.000	50.767	-1.5	103	0.00
23	T	Vinyl Acetate	250.000	254.501	-1.8	103	0.00
24	P	1,1-Dichloroethane	50.000	49.576	0.8	103	0.00
25	T	2-Butanone	250.000	250.854	-0.3	102	0.00
26	T	2,2-Dichloropropane	50.000	47.102	5.8	100	0.00
27	T	cis-1,2-Dichloroethene	50.000	49.878	0.2	104	0.00
28	T	Bromochloromethane	50.000	49.112	1.8	101	0.00
29	T	Tetrahydrofuran	250.000	254.994	-2.0	103	0.00
30	C	Chloroform	50.000	48.554	2.9#	102	0.00
31	T	Cyclohexane	50.000	47.383	5.2	103	0.00
32	T	1,1,1-Trichloroethane	50.000	49.842	0.3	102	0.00
33	S	1,2-Dichloroethane-d4	50.000	49.261	1.5	101	0.00
34	I	1,4-Difluorobenzene	50.000	50.000	0.0	101	0.00
35	S	Dibromofluoromethane	50.000	50.868	-1.7	102	0.00
36	T	1,1-Dichloropropene	50.000	51.379	-2.8	105	0.00
37	T	Ethyl Acetate	50.000	50.247	-0.5	103	0.00
38	T	Carbon Tetrachloride	50.000	50.871	-1.7	103	0.00
39	T	Methylcyclohexane	50.000	51.961	-3.9	103	0.00
40	TM	Benzene	50.000	50.369	-0.7	104	0.00
41	T	Methacrylonitrile	50.000	51.153	-2.3	103	0.00
42	TM	1,2-Dichloroethane	50.000	50.029	-0.1	103	0.00
43	T	Isopropyl Acetate	50.000	45.341	9.3	106	0.00
44	TM	Trichloroethene	50.000	50.647	-1.3	103	0.00
45	C	1,2-Dichloropropane	50.000	50.475	-1.0#	103	0.00
46	T	Dibromomethane	50.000	50.246	-0.5	102	0.00
47	T	Bromodichloromethane	50.000	50.719	-1.4	103	0.00
48	T	Methyl methacrylate	50.000	51.620	-3.2	102	0.00

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN051625\
Data File : VN086676.D
Acq On : 16 May 2025 19:20
Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
ICVVN051625

Quant Time: May 17 00:49:41 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N051625W.M
Quant Title : SW846 8260
QLast Update : Sat May 17 00:46:13 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
49	T	1,4-Dioxane	1000.000	1064.544	-6.5	105	0.00
50	S	Toluene-d8	50.000	51.886	-3.8	103	0.00
51	T	4-Methyl-2-Pentanone	250.000	253.963	-1.6	102	0.00
52	CM	Toluene	50.000	51.401	-2.8#	104	0.00
53	T	t-1,3-Dichloropropene	50.000	52.432	-4.9	103	0.00
54	T	cis-1,3-Dichloropropene	50.000	51.351	-2.7	104	0.00
55	T	1,1,2-Trichloroethane	50.000	49.290	1.4	103	0.00
56	T	Ethyl methacrylate	50.000	53.596	-7.2	103	0.00
57	T	1,3-Dichloropropane	50.000	50.196	-0.4	103	0.00
58	T	2-Chloroethyl Vinyl ether	250.000	270.990	-8.4	101	0.00
59	T	2-Hexanone	250.000	260.961	-4.4	104	0.00
60	T	Dibromochloromethane	50.000	52.080	-4.2	105	0.00
61	T	1,2-Dibromoethane	50.000	50.647	-1.3	102	0.00
62	S	4-Bromofluorobenzene	50.000	53.653	-7.3	105	0.00
63	I	Chlorobenzene-d5	50.000	50.000	0.0	101	0.00
64	T	Tetrachloroethene	50.000	49.218	1.6	104	0.00
65	PM	Chlorobenzene	50.000	49.389	1.2	104	0.00
66	T	1,1,1,2-Tetrachloroethane	50.000	49.660	0.7	102	0.00
67	C	Ethyl Benzene	50.000	50.773	-1.5#	104	0.00
68	T	m/p-Xylenes	100.000	103.321	-3.3	104	0.00
69	T	o-Xylene	50.000	51.191	-2.4	102	0.00
70	T	Styrene	50.000	53.030	-6.1	104	0.00
71	P	Bromoform	50.000	53.523	-7.0	105	0.00
72	I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	100	0.00
73	T	Isopropylbenzene	50.000	47.295	5.4	104	0.00
74	T	N-amyl acetate	50.000	47.905	4.2	103	0.00
75	P	1,1,2,2-Tetrachloroethane	50.000	45.885	8.2	104	0.00
76	T	1,2,3-Trichloropropane	50.000	46.088	7.8	101	0.00
77	T	Bromobenzene	50.000	46.220	7.6	103	0.00
78	T	n-propylbenzene	50.000	49.006	2.0	104	0.00
79	T	2-Chlorotoluene	50.000	48.004	4.0	104	0.00
80	T	1,3,5-Trimethylbenzene	50.000	48.940	2.1	104	0.00
81	T	trans-1,4-Dichloro-2-butene	50.000	47.700	4.6	95	0.00
82	T	4-Chlorotoluene	50.000	48.122	3.8	104	0.00
83	T	tert-Butylbenzene	50.000	47.509	5.0	103	0.00
84	T	1,2,4-Trimethylbenzene	50.000	50.014	-0.0	104	0.00
85	T	sec-Butylbenzene	50.000	49.105	1.8	103	0.00
86	T	p-Isopropyltoluene	50.000	50.868	-1.7	104	0.00
87	T	1,3-Dichlorobenzene	50.000	48.877	2.2	103	0.00
88	T	1,4-Dichlorobenzene	50.000	49.573	0.9	105	0.00
89	T	n-Butylbenzene	50.000	51.865	-3.7	105	0.00
90	T	Hexachloroethane	50.000	50.631	-1.3	105	0.00
91	T	1,2-Dichlorobenzene	50.000	49.729	0.5	103	0.00
92	T	1,2-Dibromo-3-Chloropropane	50.000	53.253	-6.5	105	0.00
93	T	1,2,4-Trichlorobenzene	50.000	52.378	-4.8	103	0.00
94	T	Hexachlorobutadiene	50.000	49.090	1.8	105	0.00
95	T	Naphthalene	50.000	52.378	-4.8	102	0.00

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN051625\
Data File : VN086676.D
Acq On : 16 May 2025 19:20
Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
ICVVN051625

Quant Time: May 17 00:49:41 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N051625W.M
Quant Title : SW846 8260
QLast Update : Sat May 17 00:46:13 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	50.000	50.497	-1.0	103	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q2177 SAS No.: Q2177 SDG No.: Q2177

Instrument ID: MSVOA_N Calibration Date/Time: 06/03/2025 11:30

Lab File ID: VN086835.D Init. Calib. Date(s): 05/16/2025 05/16/2025

Heated Purge: (Y/N) N Init. Calib. Time(s): 16:31 18:32

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Vinyl Chloride	0.733	0.619		-15.55	20
1,1-Dichloroethene	0.558	0.513		-8.06	20
2-Butanone	0.399	0.374		-6.27	20
Carbon Tetrachloride	0.433	0.409		-5.54	20
Chloroform	1.119	1.032		-7.78	20
Benzene	1.433	1.362		-4.95	20
1,2-Dichloroethane	0.446	0.408		-8.52	20
Trichloroethene	0.346	0.320		-7.51	20
Tetrachloroethene	0.383	0.305		-20.37	20
Chlorobenzene	1.096	1.058	0.3	-3.47	20
1,2-Dichloroethane-d4	0.691	0.613		-11.29	20
Dibromofluoromethane	0.298	0.292		-2.01	20
Toluene-d8	1.234	1.163		-5.75	20
4-Bromofluorobenzene	0.436	0.409		-6.19	20

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN060325\
Data File : VN086835.D
Acq On : 03 Jun 2025 11:30
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 04 01:55:25 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N051625W.M
Quant Title : SW846 8260
QLast Update : Sat May 17 00:46:13 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 06/04/2025
Supervised By :Mahesh Dadoda 06/04/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.218	168	307948	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.094	114	547716	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	465701	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	208517	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.571	65	188683	44.341	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 88.680%			
35) Dibromofluoromethane	8.159	113	160095	49.081	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 98.160%			
50) Toluene-d8	10.565	98	637225	47.141	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 94.280%			
62) 4-Bromofluorobenzene	12.847	95	223984	46.928	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 93.860%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.130	85	153950	46.292	ug/l	98
3) Chloromethane	2.371	50	289421	57.538	ug/l	100
4) Vinyl Chloride	2.530	62	190736	42.222	ug/l	99
5) Bromomethane	2.971	94	88667	34.047	ug/l	95
6) Chloroethane	3.130	64	126638	42.793	ug/l	95
7) Trichlorofluoromethane	3.501	101	244610	45.310	ug/l	98
8) Diethyl Ether	3.942	74	109782	49.225	ug/l	99
9) 1,1,2-Trichlorotrifluo...	4.353	101	159015	49.201	ug/l	97
10) Methyl Iodide	4.565	142	57855	14.391	ug/l	96
11) Tert butyl alcohol	5.506	59	157100	202.712	ug/l	100
12) 1,1-Dichloroethene	4.324	96	158112	46.033	ug/l	97
13) Acrolein	4.159	56	173135	208.978	ug/l	100
14) Allyl chloride	5.006	41	274585	52.817	ug/l	89
15) Acrylonitrile	5.706	53	438703	228.627	ug/l	99
16) Acetone	4.412	43	368488	231.498	ug/l	97
17) Carbon Disulfide	4.700	76	412471	43.374	ug/l	100
18) Methyl Acetate	5.006	43	201572	45.245	ug/l	99
19) Methyl tert-butyl Ether	5.783	73	570859	48.811	ug/l	100
20) Methylene Chloride	5.259	84	187165	44.558	ug/l	99
21) trans-1,2-Dichloroethene	5.777	96	166808	45.934	ug/l	98
22) Diisopropyl ether	6.659	45	564549	48.133	ug/l	96
23) Vinyl Acetate	6.589	43	2085731	236.612	ug/l	99
24) 1,1-Dichloroethane	6.559	63	321909	46.747	ug/l	99
25) 2-Butanone	7.471	43	575227	233.860	ug/l	99
26) 2,2-Dichloropropane	7.483	77	285983	50.324	ug/l	100
27) cis-1,2-Dichloroethene	7.477	96	210904	47.315	ug/l	99
28) Bromochloromethane	7.806	49	127915	40.885	ug/l	98
29) Tetrahydrofuran	7.830	42	361502	225.166	ug/l	100
30) Chloroform	7.959	83	317944	46.129	ug/l	98
31) Cyclohexane	8.247	56	284142	44.491	ug/l	97
32) 1,1,1-Trichloroethane	8.159	97	268075	46.131	ug/l	98
36) 1,1-Dichloropropene	8.365	75	230441	47.895	ug/l	99
37) Ethyl Acetate	7.553	43	221227	45.518	ug/l	99
38) Carbon Tetrachloride	8.353	117	224173	47.288	ug/l	100
39) Methylcyclohexane	9.594	83	274893	52.788	ug/l	99
40) Benzene	8.600	78	745853	47.520	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN060325\
Data File : VN086835.D
Acq On : 03 Jun 2025 11:30
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 04 01:55:25 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N051625W.M
Quant Title : SW846 8260
QLast Update : Sat May 17 00:46:13 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 06/04/2025
Supervised By :Mahesh Dadoda 06/04/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.771	41	130423	49.700	ug/l		96
42) 1,2-Dichloroethane	8.665	62	223446	45.695	ug/l		98
43) Isopropyl Acetate	8.683	43	389548	39.981	ug/l		95
44) Trichloroethene	9.347	130	175494	46.357	ug/l		97
45) 1,2-Dichloropropane	9.618	63	182848	49.039	ug/l		96
46) Dibromomethane	9.706	93	117499	46.702	ug/l		99
47) Bromodichloromethane	9.882	83	253716	48.943	ug/l		99
48) Methyl methacrylate	9.677	41	180469	47.800	ug/l		95
49) 1,4-Dioxane	9.694	88	66897	836.780	ug/l	#	83
51) 4-Methyl-2-Pentanone	10.441	43	1105000	224.893	ug/l		98
52) Toluene	10.624	92	459688	47.122	ug/l		99
53) t-1,3-Dichloropropene	10.829	75	282190	51.414	ug/l		100
54) cis-1,3-Dichloropropene	10.306	75	305118	50.926	ug/l		97
55) 1,1,2-Trichloroethane	11.012	97	168827	46.394	ug/l		98
56) Ethyl methacrylate	10.871	69	293439	50.223	ug/l		98
57) 1,3-Dichloropropane	11.159	76	296991	47.374	ug/l		100
58) 2-Chloroethyl Vinyl ether	10.153	63	720635	275.970	ug/l		100
59) 2-Hexanone	11.194	43	754763	210.353	ug/l		97
60) Dibromochloromethane	11.353	129	190576	49.972	ug/l		98
61) 1,2-Dibromoethane	11.465	107	170375	46.591	ug/l		100
64) Tetrachloroethene	11.100	164	142144	39.844	ug/l		96
65) Chlorobenzene	11.888	112	492826	48.260	ug/l		100
66) 1,1,1,2-Tetrachloroethane	11.959	131	167267	50.738	ug/l		99
67) Ethyl Benzene	11.959	91	860307	49.185	ug/l		97
68) m/p-Xylenes	12.071	106	666930	100.667	ug/l		97
69) o-Xylene	12.394	106	325037	49.349	ug/l		100
70) Styrene	12.412	104	543718	50.421	ug/l		100
71) Bromoform	12.576	173	120798	51.523	ug/l	#	99
73) Isopropylbenzene	12.694	105	795110	49.371	ug/l		100
74) N-amyl acetate	12.500	43	317518	47.189	ug/l		99
75) 1,1,2,2-Tetrachloroethane	12.935	83	242010	48.914	ug/l		99
76) 1,2,3-Trichloropropane	12.994	75	216438m	45.896	ug/l		
77) Bromobenzene	12.976	156	186125	45.944	ug/l		99
78) n-propylbenzene	13.035	91	914832	49.499	ug/l		99
79) 2-Chlorotoluene	13.123	91	565770	47.081	ug/l		100
80) 1,3,5-Trimethylbenzene	13.171	105	644639	49.962	ug/l		99
81) trans-1,4-Dichloro-2-b...	12.735	75	107382	57.465	ug/l		88
82) 4-Chlorotoluene	13.218	91	566090	47.548	ug/l		99
83) tert-Butylbenzene	13.435	119	552125	49.068	ug/l		98
84) 1,2,4-Trimethylbenzene	13.482	105	654762	50.959	ug/l		100
85) sec-Butylbenzene	13.612	105	763856	50.628	ug/l		99
86) p-Isopropyltoluene	13.723	119	651562	52.685	ug/l		99
87) 1,3-Dichlorobenzene	13.729	146	332920	47.458	ug/l		100
88) 1,4-Dichlorobenzene	13.812	146	337415	48.546	ug/l		99
89) n-Butylbenzene	14.053	91	556972	54.326	ug/l		99
90) Hexachloroethane	14.329	117	110821	54.008	ug/l		99
91) 1,2-Dichlorobenzene	14.106	146	321762	48.223	ug/l		100
92) 1,2-Dibromo-3-Chloropr...	14.717	75	46258	56.438	ug/l		99
93) 1,2,4-Trichlorobenzene	15.388	180	175713	62.388	ug/l		99
94) Hexachlorobutadiene	15.494	225	61691	52.794	ug/l		97
95) Naphthalene	15.635	128	623173	63.724	ug/l		100
96) 1,2,3-Trichlorobenzene	15.835	180	166197	60.257	ug/l		100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN060325\
Data File : VN086835.D
Acq On : 03 Jun 2025 11:30
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 04 01:55:25 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N051625W.M
Quant Title : SW846 8260
QLast Update : Sat May 17 00:46:13 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 06/04/2025
Supervised By :Mahesh Dadoda 06/04/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sample Results: **VN086835.D**

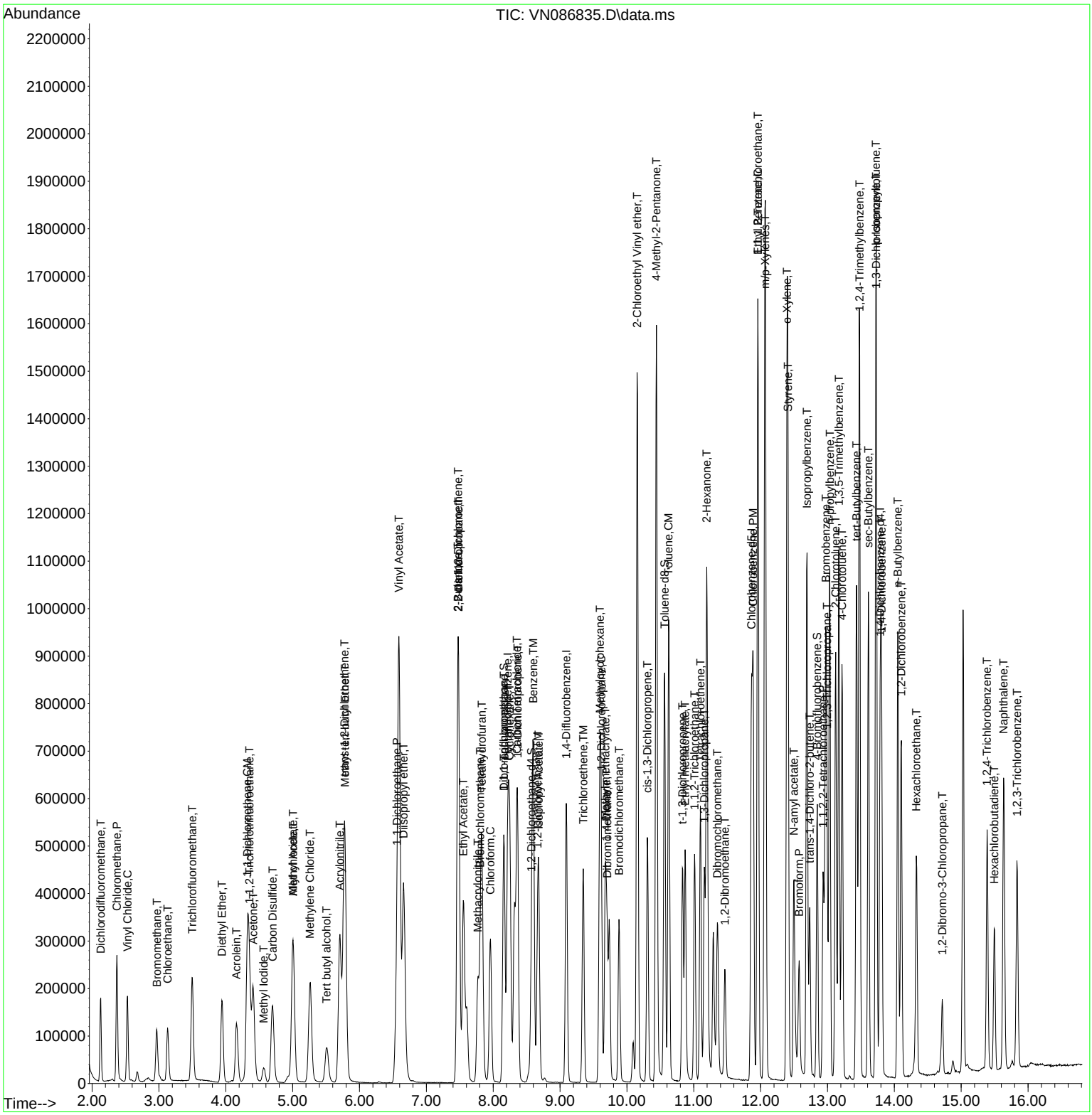
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN060325\
Data File : VN086835.D
Acq On : 03 Jun 2025 11:30
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 04 01:55:25 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N051625W.M
Quant Title : SW846 8260
QLast Update : Sat May 17 00:46:13 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 06/04/2025
Supervised By :Mahesh Dadoda 06/04/2025



Evaluate Continuing Calibration Report

Sample Results: **VN086835.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN060325\
Data File : VN086835.D
Acq On : 03 Jun 2025 11:30
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC050

Quant Time: Jun 04 01:55:25 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N051625W.M
Quant Title : SW846 8260
QLast Update : Sat May 17 00:46:13 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Pentafluorobenzene	1.000	1.000	0.0	153#	0.00
2	T	Dichlorodifluoromethane	0.540	0.500	7.4	128	0.00
3	P	Chloromethane	0.817	0.940	-15.1	184#	0.01
4	C	Vinyl Chloride	0.733	0.619	15.6#	126	0.02
5	T	Bromomethane	0.423	0.288	31.9#	110	0.03
6	T	Chloroethane	0.480	0.411	14.4	136	0.02
7	T	Trichlorofluoromethane	0.877	0.794	9.5	139	0.00
8	T	Diethyl Ether	0.362	0.356	1.7	152#	-0.02
9	T	1,1,2-Trichlorotrifluoroeth	0.525	0.516	1.7	150	-0.02
10	T	Methyl Iodide	0.653	0.188	71.2#	44#	-0.02
11	T	Tert butyl alcohol	0.126	0.102	19.0	128	-0.01
12	CM	1,1-Dichloroethene	0.558	0.513	8.1#	144	-0.01
13	T	Acrolein	0.135	0.112	17.0	129	-0.02
14	T	Allyl chloride	0.844	0.892	-5.7	166#	-0.01
15	T	Acrylonitrile	0.312	0.285	8.7	140	-0.01
16	T	Acetone	0.258	0.239	7.4	151#	-0.01
17	T	Carbon Disulfide	1.544	1.339	13.3	133	-0.01
18	T	Methyl Acetate	0.723	0.655	9.4	152#	-0.01
19	T	Methyl tert-butyl Ether	1.899	1.854	2.4	149	0.00
20	T	Methylene Chloride	0.682	0.608	10.9	148	-0.01
21	T	trans-1,2-Dichloroethene	0.590	0.542	8.1	144	0.00
22	T	Diisopropyl ether	1.904	1.833	3.7	146	0.00
23	T	Vinyl Acetate	1.431	1.355	5.3	143	-0.01
24	P	1,1-Dichloroethane	1.118	1.045	6.5	145	-0.01
25	T	2-Butanone	0.399	0.374	6.3	143	0.00
26	T	2,2-Dichloropropane	0.923	0.929	-0.7	160#	0.00
27	T	cis-1,2-Dichloroethene	0.724	0.685	5.4	148	0.00
28	T	Bromochloromethane	0.508	0.415	18.3	126	0.00
29	T	Tetrahydrofuran	0.261	0.235	10.0	136	0.00
30	C	Chloroform	1.119	1.032	7.8#	145	0.00
31	T	Cyclohexane	1.037	0.923	11.0	144	0.00
32	T	1,1,1-Trichloroethane	0.944	0.871	7.7	141	0.00
33	S	1,2-Dichloroethane-d4	0.691	0.613	11.3	136	0.00
34	I	1,4-Difluorobenzene	1.000	1.000	0.0	150	0.00
35	S	Dibromofluoromethane	0.298	0.292	2.0	146	0.00
36	T	1,1-Dichloropropene	0.439	0.421	4.1	144	0.00
37	T	Ethyl Acetate	0.444	0.404	9.0	139	0.00
38	T	Carbon Tetrachloride	0.433	0.409	5.5	142	0.00
39	T	Methylcyclohexane	0.475	0.502	-5.7	156#	0.00
40	TM	Benzene	1.433	1.362	5.0	145	0.00
41	T	Methacrylonitrile	0.240	0.238	0.8	149	0.00
42	TM	1,2-Dichloroethane	0.446	0.408	8.5	139	0.00
43	T	Isopropyl Acetate	0.889	0.711	20.0	138	0.00
44	TM	Trichloroethene	0.346	0.320	7.5	140	0.00
45	C	1,2-Dichloropropane	0.340	0.334	1.8#	149	0.00
46	T	Dibromomethane	0.230	0.215	6.5	141	0.00
47	T	Bromodichloromethane	0.473	0.463	2.1	147	0.00
48	T	Methyl methacrylate	0.345	0.329	4.6	140	0.00

Sample Results: **VN086835.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN060325\
Data File : VN086835.D
Acq On : 03 Jun 2025 11:30
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC050

Quant Time: Jun 04 01:55:25 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N051625W.M
Quant Title : SW846 8260
QLast Update : Sat May 17 00:46:13 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
49	T	1,4-Dioxane	0.007	0.006	14.3	122	0.00
50	S	Toluene-d8	1.234	1.163	5.8	139	0.00
51	T	4-Methyl-2-Pentanone	0.449	0.403	10.2	134	0.00
52	CM	Toluene	0.891	0.839	5.8#	141	0.00
53	T	t-1,3-Dichloropropene	0.501	0.515	-2.8	150	0.00
54	T	cis-1,3-Dichloropropene	0.547	0.557	-1.8	152#	0.00
55	T	1,1,2-Trichloroethane	0.332	0.308	7.2	143	0.00
56	T	Ethyl methacrylate	0.533	0.536	-0.6	144	0.00
57	T	1,3-Dichloropropane	0.572	0.542	5.2	144	0.00
58	T	2-Chloroethyl Vinyl ether	0.238	0.263	-10.5	152#	0.00
59	T	2-Hexanone	0.328	0.276	15.9	124	0.00
60	T	Dibromochloromethane	0.348	0.348	0.0	149	0.00
61	T	1,2-Dibromoethane	0.334	0.311	6.9	139	0.00
62	S	4-Bromofluorobenzene	0.436	0.409	6.2	136	0.00
63	I	Chlorobenzene-d5	1.000	1.000	0.0	140	0.00
64	T	Tetrachloroethene	0.383	0.305	20.4	116	0.00
65	PM	Chlorobenzene	1.096	1.058	3.5	140	0.00
66	T	1,1,1,2-Tetrachloroethane	0.354	0.359	-1.4	144	0.00
67	C	Ethyl Benzene	1.878	1.847	1.7#	138	0.00
68	T	m/p-Xylenes	0.711	0.716	-0.7	140	0.00
69	T	o-Xylene	0.707	0.698	1.3	135	0.00
70	T	Styrene	1.158	1.168	-0.9	136	0.00
71	P	Bromoform	0.252	0.259	-2.8	139	0.00
72	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	131	0.00
73	T	Isopropylbenzene	3.862	3.813	1.3	141	0.00
74	T	N-amyl acetate	1.613	1.523	5.6	132	0.01
75	P	1,1,2,2-Tetrachloroethane	1.186	1.161	2.1	144	0.00
76	T	1,2,3-Trichloropropane	1.131	1.038	8.2	131	0.00
77	T	Bromobenzene	0.971	0.893	8.0	134	0.00
78	T	n-propylbenzene	4.432	4.387	1.0	137	0.00
79	T	2-Chlorotoluene	2.882	2.713	5.9	133	0.00
80	T	1,3,5-Trimethylbenzene	3.094	3.092	0.1	138	0.00
81	T	trans-1,4-Dichloro-2-butene	0.448	0.515	-15.0	150	0.00
82	T	4-Chlorotoluene	2.855	2.715	4.9	134	0.00
83	T	tert-Butylbenzene	2.698	2.648	1.9	138	0.00
84	T	1,2,4-Trimethylbenzene	3.081	3.140	-1.9	138	0.00
85	T	sec-Butylbenzene	3.618	3.663	-1.2	139	0.00
86	T	p-Isopropyltoluene	2.965	3.125	-5.4	141	0.00
87	T	1,3-Dichlorobenzene	1.682	1.597	5.1	130	0.00
88	T	1,4-Dichlorobenzene	1.667	1.618	2.9	134	0.00
89	T	n-Butylbenzene	2.458	2.671	-8.7	143	0.00
90	T	Hexachloroethane	0.492	0.531	-7.9	146	0.00
91	T	1,2-Dichlorobenzene	1.600	1.543	3.6	130	0.00
92	T	1,2-Dibromo-3-Chloropropane	0.197	0.222	-12.7	145	0.00
93	T	1,2,4-Trichlorobenzene	0.675	0.843	-24.9	160#	0.00
94	T	Hexachlorobutadiene	0.280	0.296	-5.7	147	0.00
95	T	Naphthalene	2.345	2.989	-27.5#	162#	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN060325\
Data File : VN086835.D
Acq On : 03 Jun 2025 11:30
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC050

Quant Time: Jun 04 01:55:25 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N051625W.M
Quant Title : SW846 8260
QLast Update : Sat May 17 00:46:13 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	0.661	0.797	-20.6	160#	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Sample Results: **VN086835.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN060325\
Data File : VN086835.D
Acq On : 03 Jun 2025 11:30
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC050

Quant Time: Jun 04 01:55:25 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N051625W.M
Quant Title : SW846 8260
QLast Update : Sat May 17 00:46:13 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Pentafluorobenzene	50.000	50.000	0.0	153	0.00
2	T	Dichlorodifluoromethane	50.000	46.292	7.4	128	0.00
3	P	Chloromethane	50.000	57.538	-15.1	184	0.01
4	C	Vinyl Chloride	50.000	42.222	15.6#	126	0.02
5	T	Bromomethane	50.000	34.047	31.9#	110	0.03
6	T	Chloroethane	50.000	42.793	14.4	136	0.02
7	T	Trichlorofluoromethane	50.000	45.310	9.4	139	0.00
8	T	Diethyl Ether	50.000	49.225	1.5	152	-0.02
9	T	1,1,2-Trichlorotrifluoroeth	50.000	49.201	1.6	150	-0.02
10	T	Methyl Iodide	50.000	14.391	71.2#	44	-0.02
11	T	Tert butyl alcohol	250.000	202.712	18.9	128	-0.01
12	CM	1,1-Dichloroethene	50.000	46.033	7.9#	144	-0.01
13	T	Acrolein	250.000	208.978	16.4	129	-0.02
14	T	Allyl chloride	50.000	52.817	-5.6	166	-0.01
15	T	Acrylonitrile	250.000	228.627	8.5	140	-0.01
16	T	Acetone	250.000	231.498	7.4	151	-0.01
17	T	Carbon Disulfide	50.000	43.374	13.3	133	-0.01
18	T	Methyl Acetate	50.000	45.245	9.5	152	-0.01
19	T	Methyl tert-butyl Ether	50.000	48.811	2.4	149	0.00
20	T	Methylene Chloride	50.000	44.558	10.9	148	-0.01
21	T	trans-1,2-Dichloroethene	50.000	45.934	8.1	144	0.00
22	T	Diisopropyl ether	50.000	48.133	3.7	146	0.00
23	T	Vinyl Acetate	250.000	236.612	5.4	143	-0.01
24	P	1,1-Dichloroethane	50.000	46.747	6.5	145	-0.01
25	T	2-Butanone	250.000	233.860	6.5	143	0.00
26	T	2,2-Dichloropropane	50.000	50.324	-0.6	160	0.00
27	T	cis-1,2-Dichloroethene	50.000	47.315	5.4	148	0.00
28	T	Bromochloromethane	50.000	40.885	18.2	126	0.00
29	T	Tetrahydrofuran	250.000	225.166	9.9	136	0.00
30	C	Chloroform	50.000	46.129	7.7#	145	0.00
31	T	Cyclohexane	50.000	44.491	11.0	144	0.00
32	T	1,1,1-Trichloroethane	50.000	46.131	7.7	141	0.00
33	S	1,2-Dichloroethane-d4	50.000	44.341	11.3	136	0.00
34	I	1,4-Difluorobenzene	50.000	50.000	0.0	150	0.00
35	S	Dibromofluoromethane	50.000	49.081	1.8	146	0.00
36	T	1,1-Dichloropropene	50.000	47.895	4.2	144	0.00
37	T	Ethyl Acetate	50.000	45.518	9.0	139	0.00
38	T	Carbon Tetrachloride	50.000	47.288	5.4	142	0.00
39	T	Methylcyclohexane	50.000	52.788	-5.6	156	0.00
40	TM	Benzene	50.000	47.520	5.0	145	0.00
41	T	Methacrylonitrile	50.000	49.700	0.6	149	0.00
42	TM	1,2-Dichloroethane	50.000	45.695	8.6	139	0.00
43	T	Isopropyl Acetate	50.000	39.981	20.0	138	0.00
44	TM	Trichloroethene	50.000	46.357	7.3	140	0.00
45	C	1,2-Dichloropropane	50.000	49.039	1.9#	149	0.00
46	T	Dibromomethane	50.000	46.702	6.6	141	0.00
47	T	Bromodichloromethane	50.000	48.943	2.1	147	0.00
48	T	Methyl methacrylate	50.000	47.800	4.4	140	0.00

Sample Results: **VN086835.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN060325\
Data File : VN086835.D
Acq On : 03 Jun 2025 11:30
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC050

Quant Time: Jun 04 01:55:25 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N051625W.M
Quant Title : SW846 8260
QLast Update : Sat May 17 00:46:13 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
49	T	1,4-Dioxane	1000.000	836.780	16.3	122	0.00
50	S	Toluene-d8	50.000	47.141	5.7	139	0.00
51	T	4-Methyl-2-Pentanone	250.000	224.893	10.0	134	0.00
52	CM	Toluene	50.000	47.122	5.8#	141	0.00
53	T	t-1,3-Dichloropropene	50.000	51.414	-2.8	150	0.00
54	T	cis-1,3-Dichloropropene	50.000	50.926	-1.9	152	0.00
55	T	1,1,2-Trichloroethane	50.000	46.394	7.2	143	0.00
56	T	Ethyl methacrylate	50.000	50.223	-0.4	144	0.00
57	T	1,3-Dichloropropane	50.000	47.374	5.3	144	0.00
58	T	2-Chloroethyl Vinyl ether	250.000	275.970	-10.4	152	0.00
59	T	2-Hexanone	250.000	210.353	15.9	124	0.00
60	T	Dibromochloromethane	50.000	49.972	0.1	149	0.00
61	T	1,2-Dibromoethane	50.000	46.591	6.8	139	0.00
62	S	4-Bromofluorobenzene	50.000	46.928	6.1	136	0.00
63	I	Chlorobenzene-d5	50.000	50.000	0.0	140	0.00
64	T	Tetrachloroethene	50.000	39.844	20.3	116	0.00
65	PM	Chlorobenzene	50.000	48.260	3.5	140	0.00
66	T	1,1,1,2-Tetrachloroethane	50.000	50.738	-1.5	144	0.00
67	C	Ethyl Benzene	50.000	49.185	1.6#	138	0.00
68	T	m/p-Xylenes	100.000	100.667	-0.7	140	0.00
69	T	o-Xylene	50.000	49.349	1.3	135	0.00
70	T	Styrene	50.000	50.421	-0.8	136	0.00
71	P	Bromoform	50.000	51.523	-3.0	139	0.00
72	I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	131	0.00
73	T	Isopropylbenzene	50.000	49.371	1.3	141	0.00
74	T	N-amyl acetate	50.000	47.189	5.6	132	0.01
75	P	1,1,2,2-Tetrachloroethane	50.000	48.914	2.2	144	0.00
76	T	1,2,3-Trichloropropane	50.000	45.896	8.2	131	0.00
77	T	Bromobenzene	50.000	45.944	8.1	134	0.00
78	T	n-propylbenzene	50.000	49.499	1.0	137	0.00
79	T	2-Chlorotoluene	50.000	47.081	5.8	133	0.00
80	T	1,3,5-Trimethylbenzene	50.000	49.962	0.1	138	0.00
81	T	trans-1,4-Dichloro-2-butene	50.000	57.465	-14.9	150	0.00
82	T	4-Chlorotoluene	50.000	47.548	4.9	134	0.00
83	T	tert-Butylbenzene	50.000	49.068	1.9	138	0.00
84	T	1,2,4-Trimethylbenzene	50.000	50.959	-1.9	138	0.00
85	T	sec-Butylbenzene	50.000	50.628	-1.3	139	0.00
86	T	p-Isopropyltoluene	50.000	52.685	-5.4	141	0.00
87	T	1,3-Dichlorobenzene	50.000	47.458	5.1	130	0.00
88	T	1,4-Dichlorobenzene	50.000	48.546	2.9	134	0.00
89	T	n-Butylbenzene	50.000	54.326	-8.7	143	0.00
90	T	Hexachloroethane	50.000	54.008	-8.0	146	0.00
91	T	1,2-Dichlorobenzene	50.000	48.223	3.6	130	0.00
92	T	1,2-Dibromo-3-Chloropropane	50.000	56.438	-12.9	145	0.00
93	T	1,2,4-Trichlorobenzene	50.000	62.388	-24.8	160	0.00
94	T	Hexachlorobutadiene	50.000	52.794	-5.6	147	0.00
95	T	Naphthalene	50.000	63.724	-27.4#	162	0.00

Sample Results: **VN086835.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN060325\
Data File : VN086835.D
Acq On : 03 Jun 2025 11:30
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC050

Quant Time: Jun 04 01:55:25 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N051625W.M
Quant Title : SW846 8260
QLast Update : Sat May 17 00:46:13 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	50.000	60.257	-20.5	160	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6

QC SAMPLE DATA

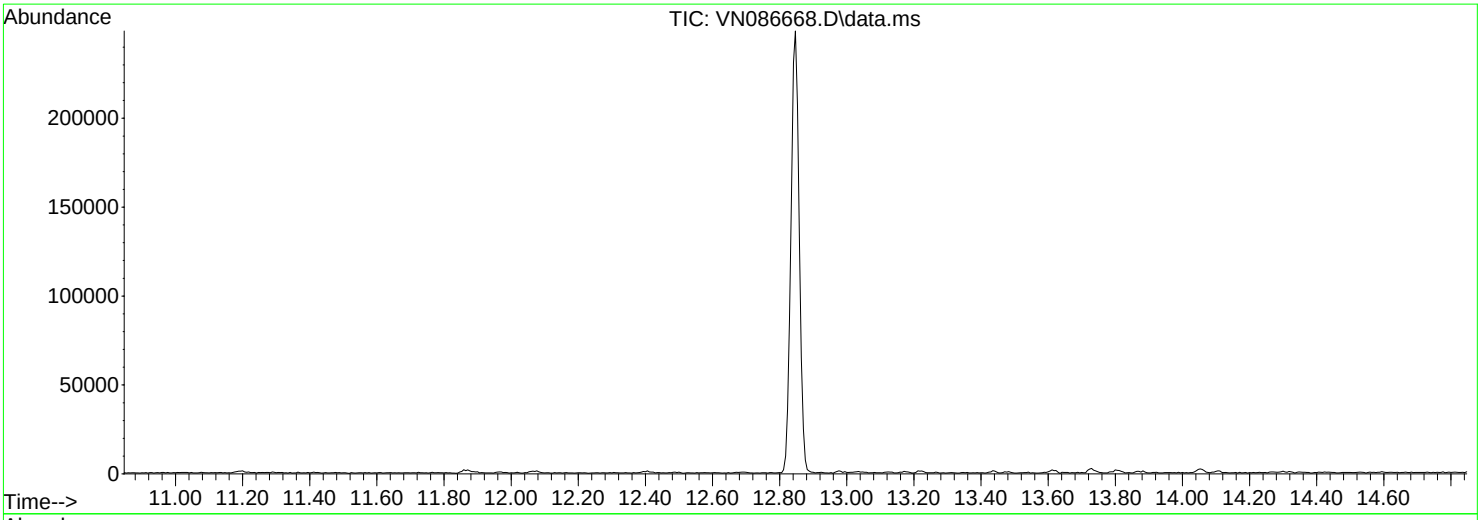
Sample Results: **VN086668.D**

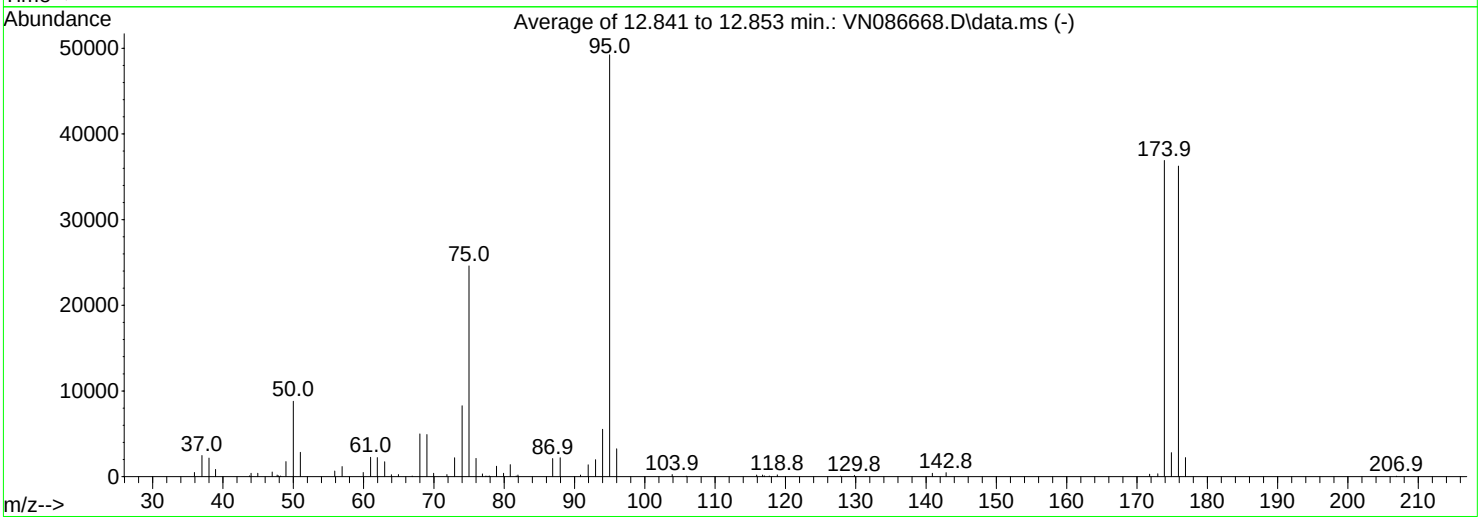
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN051625\
Data File : VN086668.D
Acq On : 16 May 2025 15:33
Operator : JC\MD
Sample : BFB
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N051625W.M
Title : SW846 8260
Last Update : Sat May 17 00:46:13 2025





AutoFind: Scans 1851, 1852, 1853; Background Corrected with Scan 1843

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	17.9	8802	PASS
75	95	30	60	50.0	24603	PASS
95	95	100	100	100.0	49237	PASS
96	95	5	9	6.6	3255	PASS
173	174	0.00	2	0.9	345	PASS
174	95	50	100	74.9	36899	PASS
175	174	5	9	7.6	2805	PASS
176	174	95	101	98.2	36248	PASS
177	176	5	9	6.1	2226	PASS

Average of 12.841 to 12.853 min.: VN086668.D\data.ms
BFB
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
35.95	491	48.95	1758	66.90	77	77.70	6
37.00	2471	50.00	8802	68.00	4985	77.90	8
38.00	2170	51.00	2842	69.00	4914	78.90	122
38.95	848	55.90	650	69.95	392	79.90	39
43.80	90	56.95	1184	71.85	240	80.85	1395
44.00	384	59.95	482	72.95	2211	81.70	66
44.95	402	61.00	2266	74.00	8274	81.95	184
47.00	538	61.95	2229	75.00	24603	86.90	2121
47.70	193	63.00	1738	76.00	2136	87.95	2202
47.90	98	63.95	231	76.90	315	90.85	195
48.20	75	64.95	248	77.40	73	91.95	1382

Instrument :
MSVOA_N
ClientSampleId :
BFB

Average of 12.841 to 12.853 min.: VN086668.D\data.ms
BFB
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
93.00	1974	127.80	58				
94.00	5539	129.80	148				
95.00	49237	140.90	397				
96.00	3255	142.85	470				
103.90	249	171.80	278				
105.90	60	172.95	345				
115.90	181	173.90	36899				
116.75	181	174.90	2805				
117.00	86	175.90	36248				
117.70	68	176.90	2226				
118.85	214	206.90	58				

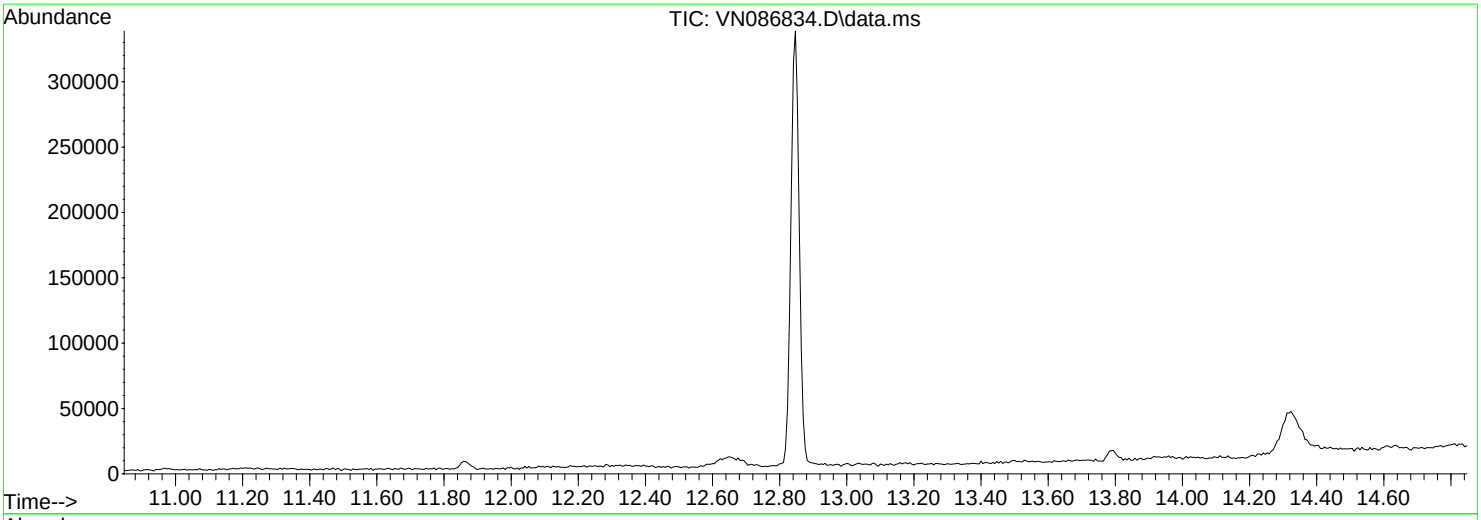
Sample Results: **VN086834.D**

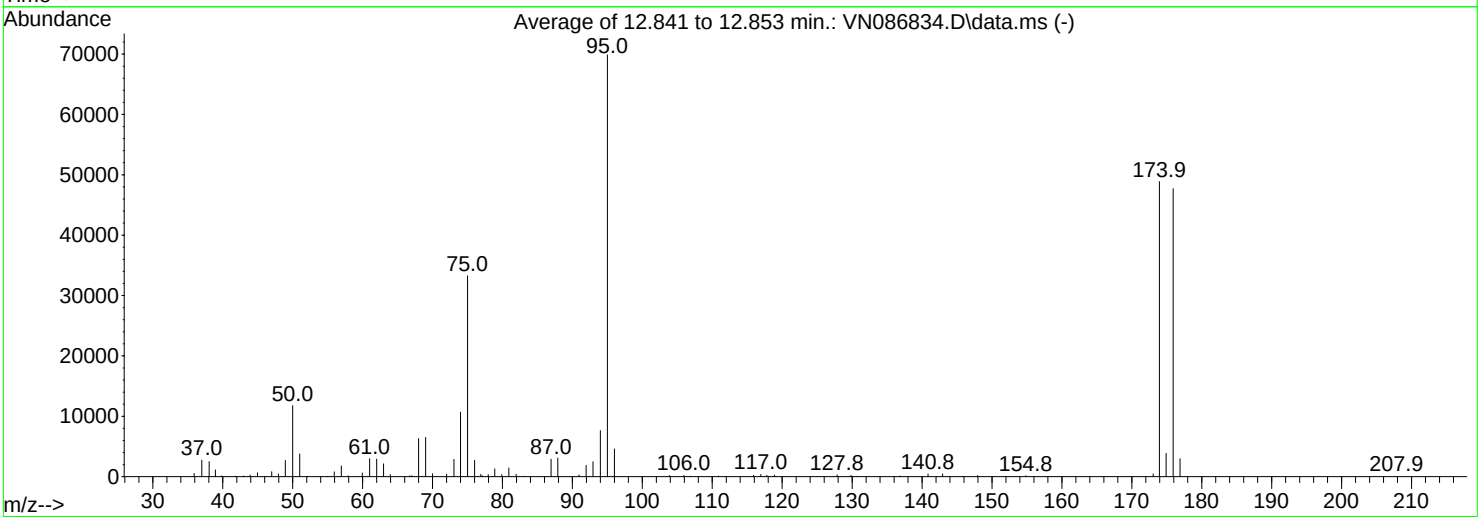
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN060325\
Data File : VN086834.D
Acq On : 03 Jun 2025 10:47
Operator : JC\MD
Sample : BFB
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N051625W.M
Title : SW846 8260
Last Update : Sat May 17 00:46:13 2025





AutoFind: Scans 1851, 1852, 1853; Background Corrected with Scan 1842

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	16.8	11764	PASS
75	95	30	60	47.6	33277	PASS
95	95	100	100	100.0	69877	PASS
96	95	5	9	6.6	4594	PASS
173	174	0.00	2	0.9	441	PASS
174	95	50	100	69.9	48877	PASS
175	174	5	9	7.9	3863	PASS
176	174	95	101	97.6	47701	PASS
177	176	5	9	6.2	2978	PASS

Average of 12.841 to 12.853 min.: VN086834.D\data.ms
BFB
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
35.90	536	48.95	2681	63.00	2132	76.00	271
37.00	2747	50.00	11764	63.95	342	76.90	36
38.05	2501	51.00	3775	66.75	147	77.10	14
38.95	1113	52.10	60	67.05	174	77.95	34
39.85	130	54.95	57	68.00	6320	78.90	1299
41.80	74	55.95	809	69.00	6498	79.90	356
43.00	103	56.95	1780	70.00	477	80.90	1437
43.90	263	57.90	128	72.00	435	81.95	401
44.95	630	59.95	611	73.05	2875	83.00	50
47.00	814	61.00	2974	74.00	10695	86.95	2901
47.95	463	62.00	2917	75.00	33277	87.90	3075

Instrument :
MSVOA_N
ClientSampleId :
BFB

Average of 12.841 to 12.853 min.: VN086834.D\data.ms
BFB
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
90.95	293	111.90	62	145.80	51		
91.95	1844	115.90	219	147.95	187		
92.95	2466	116.95	377	154.85	154		
94.00	7644	117.80	220	173.05	441		
95.00	69877	118.90	258	173.95	48877		
96.00	4594	127.85	292	174.90	3863		
97.05	38	129.85	202	175.90	47701		
103.85	182	130.70	51	176.90	2978		
105.95	227	136.85	120	177.90	57		
106.90	63	140.85	466	207.90	61		
110.90	104	142.95	465				

Raw Data: **VN086836.D**

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	VN0603WBL01	SDG No.:	Q2177
Lab Sample ID:	VN0603WBL01	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:	Prep Date	Date Analyzed	Prep Batch ID
VN086836.D	1		06/03/25 12:10	VN060325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-01-4	Vinyl Chloride	0.26	U	0.26	5.00	ug/L
75-35-4	1,1-Dichloroethene	0.23	U	0.23	5.00	ug/L
78-93-3	2-Butanone	0.98	U	0.98	25.0	ug/L
56-23-5	Carbon Tetrachloride	0.25	U	0.25	5.00	ug/L
67-66-3	Chloroform	0.25	U	0.25	5.00	ug/L
71-43-2	Benzene	0.15	U	0.15	5.00	ug/L
107-06-2	1,2-Dichloroethane	0.22	U	0.22	5.00	ug/L
79-01-6	Trichloroethene	0.090	U	0.090	5.00	ug/L
127-18-4	Tetrachloroethene	0.23	U	0.23	5.00	ug/L
108-90-7	Chlorobenzene	0.12	U	0.12	5.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	46.6		70 (74) - 130 (125)	93%	SPK: 50
1868-53-7	Dibromofluoromethane	51.3		70 (75) - 130 (124)	103%	SPK: 50
2037-26-5	Toluene-d8	51.3		70 (86) - 130 (113)	103%	SPK: 50
460-00-4	4-Bromofluorobenzene	52.8		70 (77) - 130 (121)	106%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	257000	8.218			
540-36-3	1,4-Difluorobenzene	494000	9.094			
3114-55-4	Chlorobenzene-d5	461000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	202000	13.788			

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN060325\
Data File : VN086836.D
Acq On : 03 Jun 2025 12:10
Operator : JC\MD
Sample : VN0603WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0603WBL01

Quant Time: Jun 04 01:56:28 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N051625W.M
Quant Title : SW846 8260
QLast Update : Sat May 17 00:46:13 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.218	168	257056	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.094	114	493879	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	460882	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	202290	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.571	65	165463	46.582	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 93.160%			
35) Dibromofluoromethane	8.159	113	150868	51.294	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 102.580%			
50) Toluene-d8	10.565	98	625163	51.290	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 102.580%			
62) 4-Bromofluorobenzene	12.847	95	227449	52.849	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 105.700%			

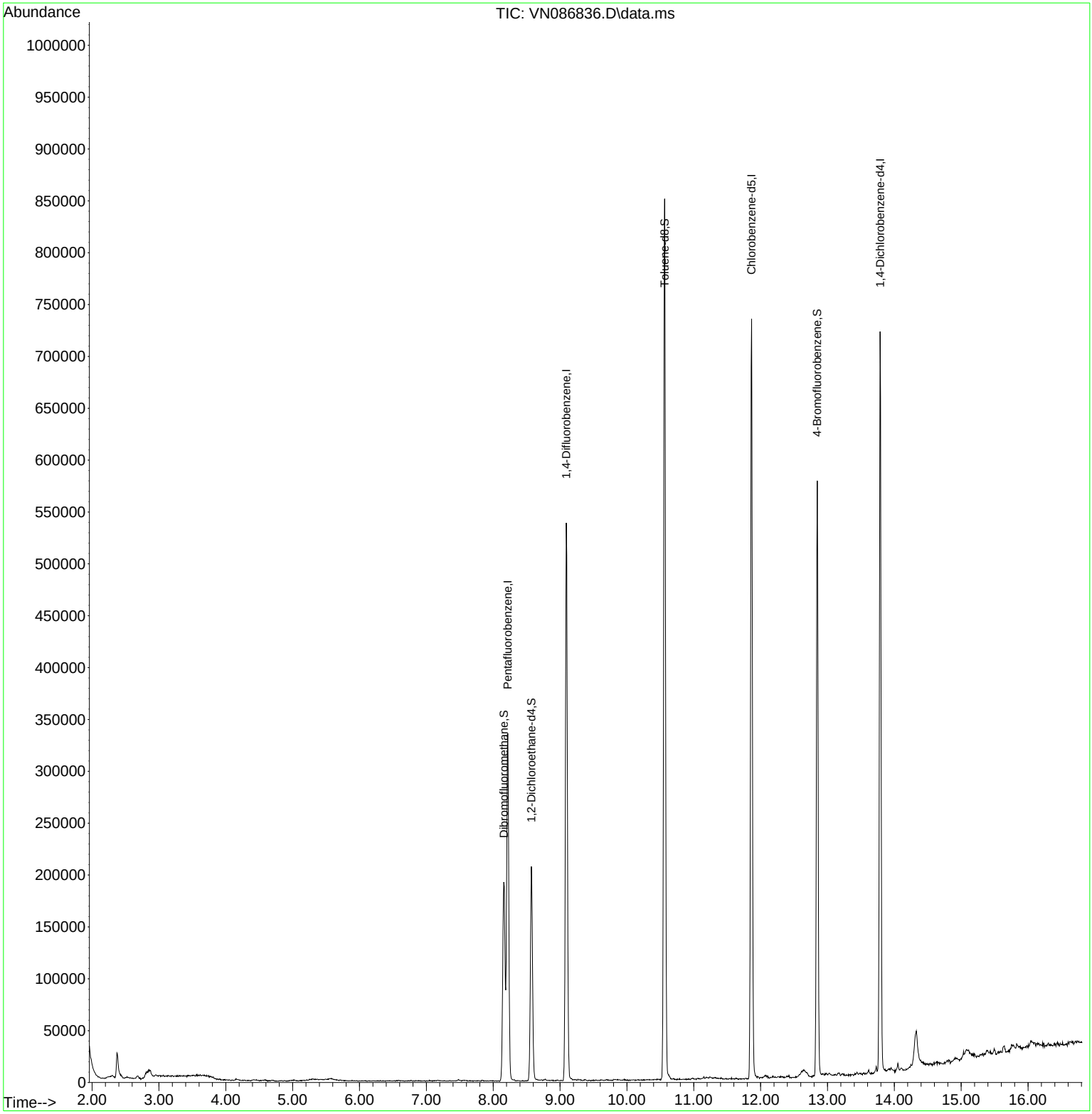
Target Compounds Qvalue

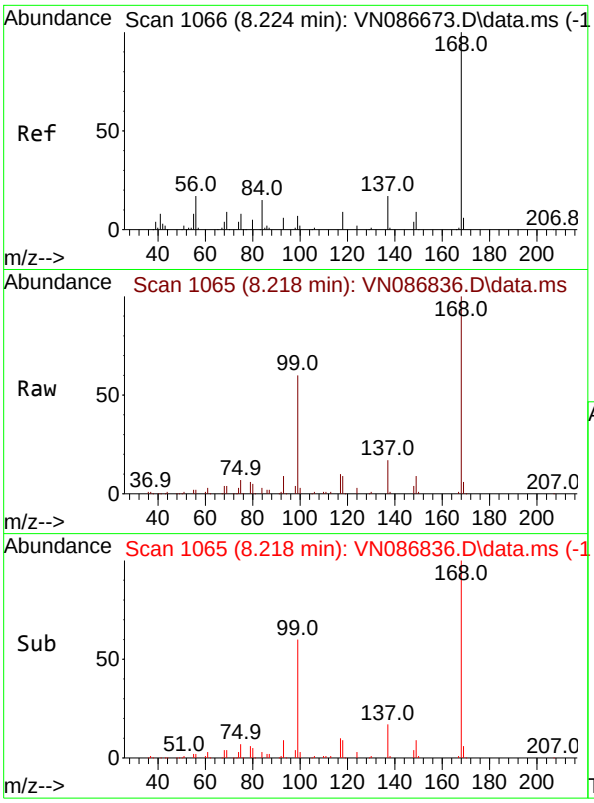
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN060325\
Data File : VN086836.D
Acq On : 03 Jun 2025 12:10
Operator : JC\MD
Sample : VN0603WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0603WBL01

Quant Time: Jun 04 01:56:28 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N051625W.M
Quant Title : SW846 8260
QLast Update : Sat May 17 00:46:13 2025
Response via : Initial Calibration



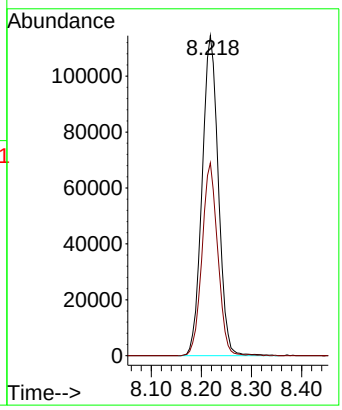


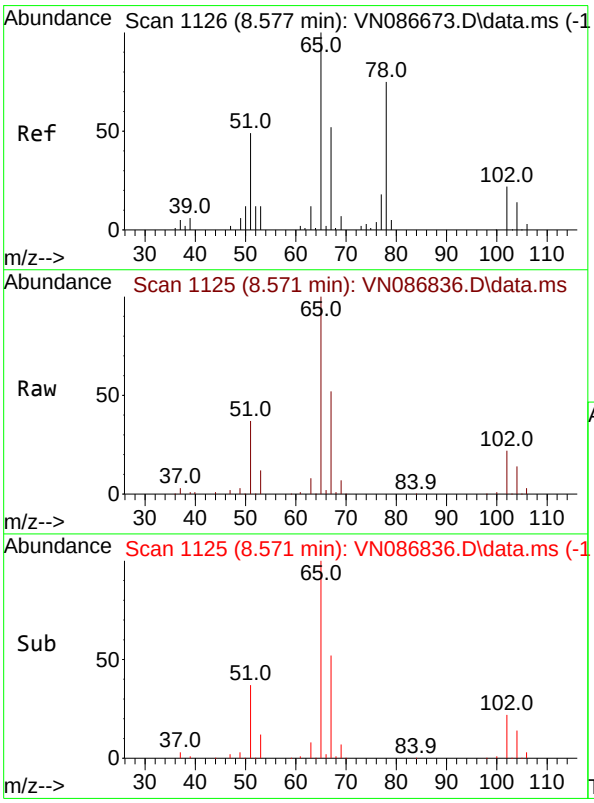
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.218 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN086836.D
Acq: 03 Jun 2025 12:10

Instrument :
MSVOA_N
ClientSampleId :
VN0603WBL01

Tgt Ion:168 Resp: 257056

Ion	Ratio	Lower	Upper
168	100		
99	60.3	47.0	70.4

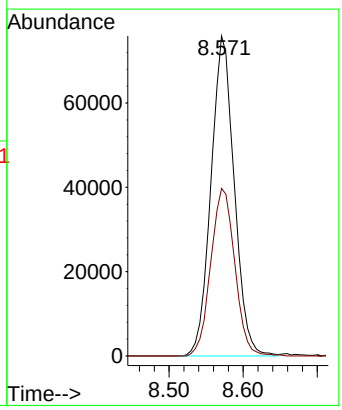


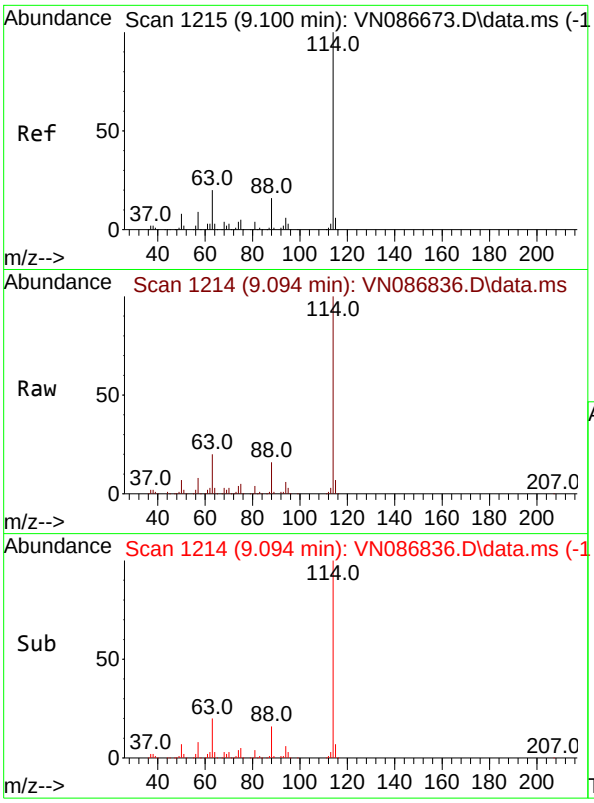


#33
1,2-Dichloroethane-d4
Concen: 46.582 ug/l
RT: 8.571 min Scan# 1125
Delta R.T. -0.006 min
Lab File: VN086836.D
Acq: 03 Jun 2025 12:10

Tgt Ion: 65 Resp: 165463

Ion	Ratio	Lower	Upper
65	100		
67	54.1	0.0	106.4



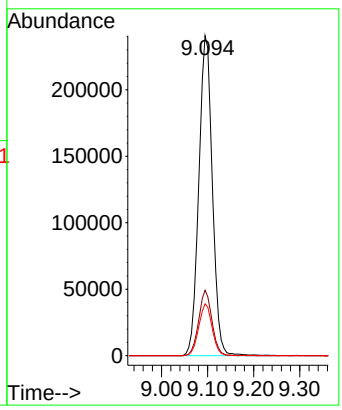


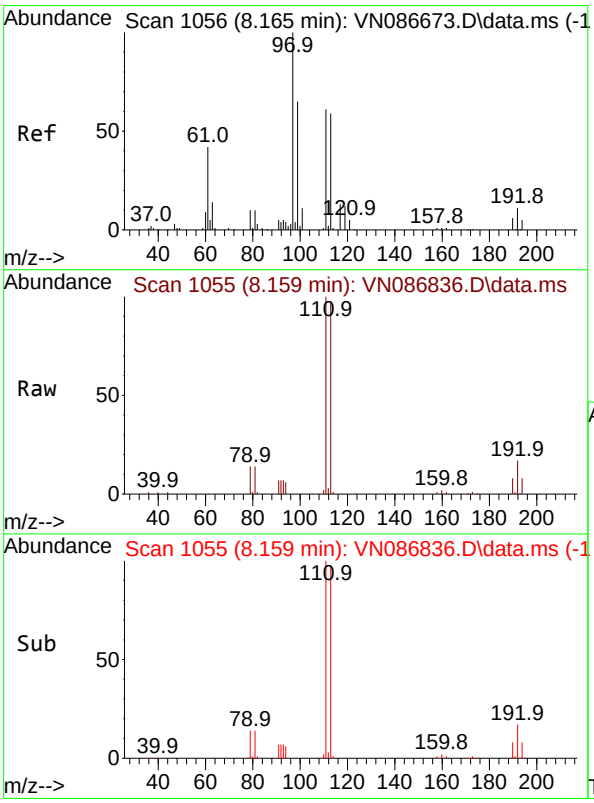
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.094 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN086836.D
Acq: 03 Jun 2025 12:10

Instrument :
MSVOA_N
ClientSampleId :
VN0603WBL01

Tgt Ion:114 Resp: 493879

Ion	Ratio	Lower	Upper
114	100		
63	20.4	0.0	40.2
88	16.2	0.0	31.2

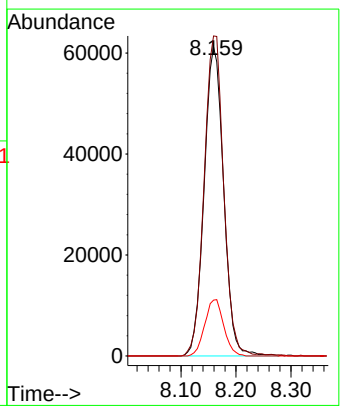


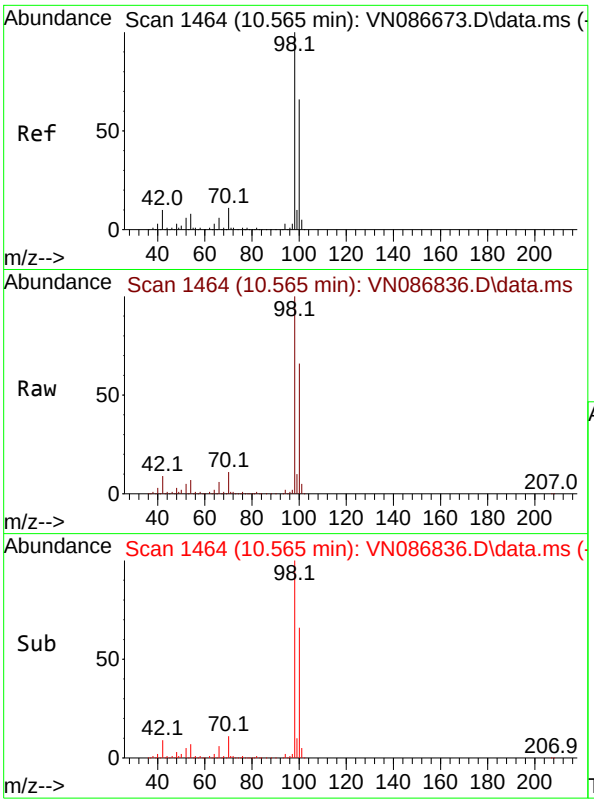


#35
Dibromofluoromethane
Concen: 51.294 ug/l
RT: 8.159 min Scan# 1055
Delta R.T. -0.006 min
Lab File: VN086836.D
Acq: 03 Jun 2025 12:10

Tgt Ion:113 Resp: 150868

Ion	Ratio	Lower	Upper
113	100		
111	103.4	82.2	123.2
192	17.7	13.8	20.8



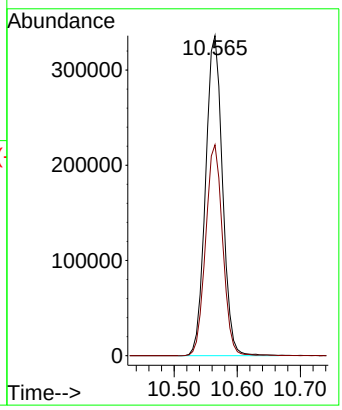


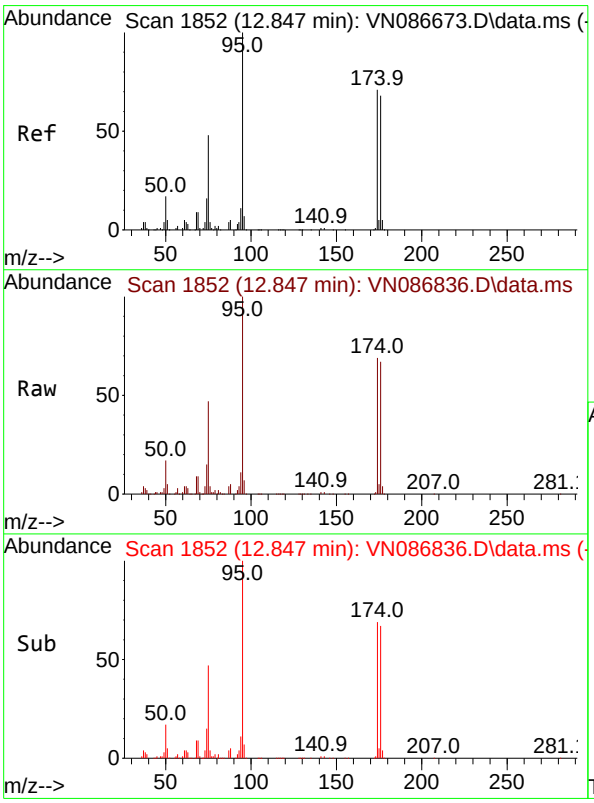
#50
Toluene-d8
Concen: 51.290 ug/l
RT: 10.565 min Scan# 14
Delta R.T. -0.000 min
Lab File: VN086836.D
Acq: 03 Jun 2025 12:10

Instrument :
MSVOA_N
ClientSampleId :
VN0603WBL01

Tgt Ion: 98 Resp: 625163

Ion	Ratio	Lower	Upper
98	100		
100	66.4	52.9	79.3

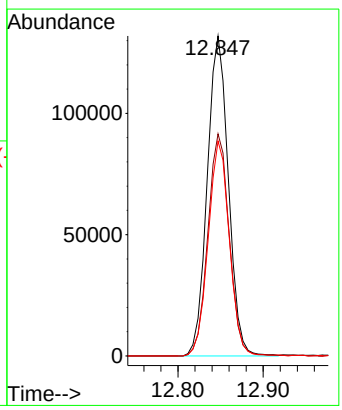


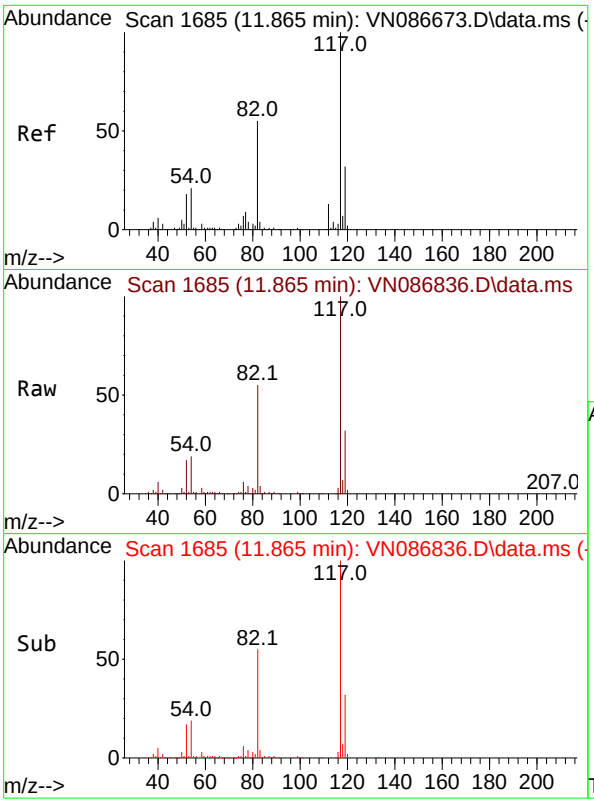


#62
4-Bromofluorobenzene
Concen: 52.849 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN086836.D
Acq: 03 Jun 2025 12:10

Tgt Ion: 95 Resp: 227449

Ion	Ratio	Lower	Upper
95	100		
174	70.1	0.0	145.4
176	67.1	0.0	137.8



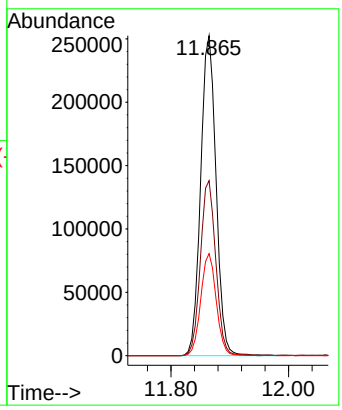


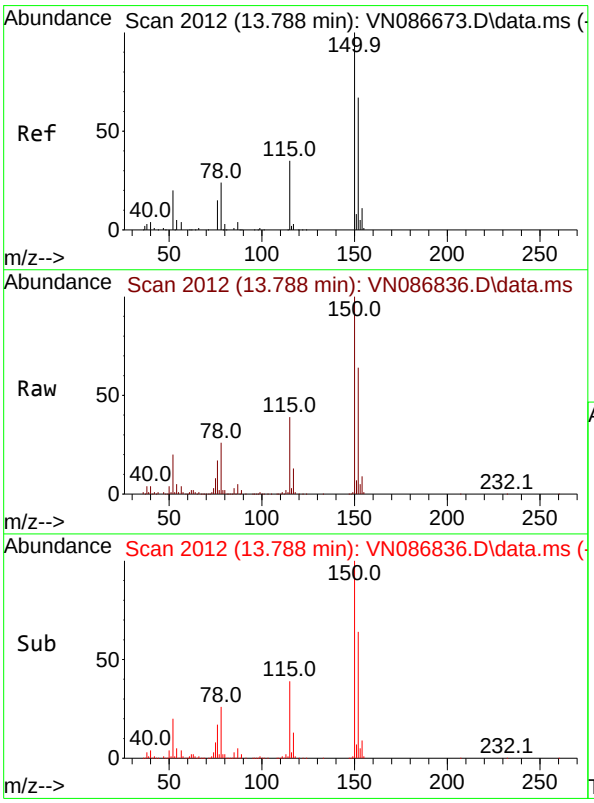
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086836.D
Acq: 03 Jun 2025 12:10

Instrument :
MSVOA_N
ClientSampleId :
VN0603WBL01

Tgt Ion:117 Resp: 460882

Ion	Ratio	Lower	Upper
117	100		
82	54.7	44.2	66.2
119	31.9	25.4	38.2

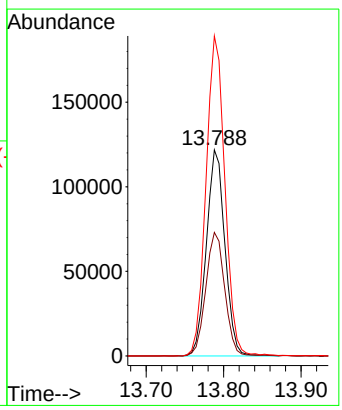




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. -0.000 min
Lab File: VN086836.D
Acq: 03 Jun 2025 12:10

Tgt Ion:152 Resp: 202290

Ion	Ratio	Lower	Upper
152	100		
115	61.5	30.0	90.1
150	158.2	0.0	347.8



Raw Data: **VN086837.D**

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	VN0603WBS01	SDG No.:	Q2177
Lab Sample ID:	VN0603WBS01	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:	Prep Date	Date Analyzed	Prep Batch ID
VN086837.D	1		06/03/25 12:46	VN060325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-01-4	Vinyl Chloride	16.7		0.26	5.00	ug/L
75-35-4	1,1-Dichloroethene	18.5		0.23	5.00	ug/L
78-93-3	2-Butanone	94.0		0.98	25.0	ug/L
56-23-5	Carbon Tetrachloride	18.8		0.25	5.00	ug/L
67-66-3	Chloroform	18.3		0.25	5.00	ug/L
71-43-2	Benzene	19.2		0.15	5.00	ug/L
107-06-2	1,2-Dichloroethane	18.3		0.22	5.00	ug/L
79-01-6	Trichloroethene	18.5		0.090	5.00	ug/L
127-18-4	Tetrachloroethene	15.8		0.23	5.00	ug/L
108-90-7	Chlorobenzene	19.5		0.12	5.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	45.7		70 (74) - 130 (125)	91%	SPK: 50
1868-53-7	Dibromofluoromethane	49.5		70 (75) - 130 (124)	99%	SPK: 50
2037-26-5	Toluene-d8	47.6		70 (86) - 130 (113)	95%	SPK: 50
460-00-4	4-Bromofluorobenzene	47.3		70 (77) - 130 (121)	95%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	312000	8.218			
540-36-3	1,4-Difluorobenzene	553000	9.094			
3114-55-4	Chlorobenzene-d5	468000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	208000	13.788			

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN060325\
Data File : VN086837.D
Acq On : 03 Jun 2025 12:46
Operator : JC\MD
Sample : VN0603WBS01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 04 01:56:56 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N051625W.M
Quant Title : SW846 8260
QLast Update : Sat May 17 00:46:13 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VN0603WBS01

Manual Integrations APPROVED

Reviewed By :John Carlone 06/04/2025
Supervised By :Mahesh Dadoda 06/04/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.218	168	311874	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.094	114	552803	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	467842	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	208414	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.571	65	196901	45.690	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 91.380%			
35) Dibromofluoromethane	8.159	113	162966	49.501	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 99.000%			
50) Toluene-d8	10.565	98	650044	47.647	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 95.300%			
62) 4-Bromofluorobenzene	12.847	95	227930	47.315	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 94.640%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.130	85	61689	18.316	ug/l	99
3) Chloromethane	2.371	50	124743	24.487	ug/l	99
4) Vinyl Chloride	2.530	62	76314	16.680	ug/l	96
5) Bromomethane	2.977	94	35389	13.418	ug/l	92
6) Chloroethane	3.136	64	50742	16.931	ug/l	89
7) Trichlorofluoromethane	3.501	101	99083	18.122	ug/l	98
8) Diethyl Ether	3.948	74	44442	19.676	ug/l	99
9) 1,1,2-Trichlorotrifluo...	4.353	101	62543	19.108	ug/l	97
10) Methyl Iodide	4.571	142	27330	6.712	ug/l	94
11) Tert butyl alcohol	5.512	59	70823	90.235	ug/l	99
12) 1,1-Dichloroethene	4.330	96	64398	18.513	ug/l	92
13) Acrolein	4.159	56	55618	66.287	ug/l	100
14) Allyl chloride	5.006	41	111061	21.094	ug/l	88
15) Acrylonitrile	5.712	53	179724	92.483	ug/l	99
16) Acetone	4.412	43	149854	92.959	ug/l	99
17) Carbon Disulfide	4.695	76	164472	17.078	ug/l	98
18) Methyl Acetate	5.012	43	84725	18.778	ug/l	100
19) Methyl tert-butyl Ether	5.783	73	231177	19.518	ug/l	99
20) Methylene Chloride	5.259	84	72387	17.016	ug/l	97
21) trans-1,2-Dichloroethene	5.777	96	68409	18.600	ug/l	92
22) Diisopropyl ether	6.665	45	228738	19.257	ug/l	97
23) Vinyl Acetate	6.595	43	834829	93.514	ug/l	100
24) 1,1-Dichloroethane	6.559	63	127319	18.256	ug/l	99
25) 2-Butanone	7.477	43	234150	93.996	ug/l	97
26) 2,2-Dichloropropane	7.483	77	115428	20.056	ug/l	100
27) cis-1,2-Dichloroethene	7.477	96	83833	18.570	ug/l	98
28) Bromochloromethane	7.806	49	63348	19.993	ug/l	97
29) Tetrahydrofuran	7.836	42	144894	89.113	ug/l	97
30) Chloroform	7.959	83	127505	18.266	ug/l	97
31) Cyclohexane	8.253	56	118488	18.319	ug/l	99
32) 1,1,1-Trichloroethane	8.165	97	109562	18.616	ug/l	93
36) 1,1-Dichloropropene	8.365	75	92546	19.058	ug/l	100
37) Ethyl Acetate	7.553	43	93247	19.009	ug/l	99
38) Carbon Tetrachloride	8.353	117	89775	18.763	ug/l	97
39) Methylcyclohexane	9.594	83	108094	20.567	ug/l	98
40) Benzene	8.600	78	303496	19.158	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN060325\
Data File : VN086837.D
Acq On : 03 Jun 2025 12:46
Operator : JC\MD
Sample : VN0603WBS01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 04 01:56:56 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N051625W.M
Quant Title : SW846 8260
QLast Update : Sat May 17 00:46:13 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VN0603WBS01

Manual Integrations APPROVED

Reviewed By :John Carlone 06/04/2025
Supervised By :Mahesh Dadoda 06/04/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.771	41	52387	19.779	ug/l		97
42) 1,2-Dichloroethane	8.665	62	90068	18.250	ug/l		98
43) Isopropyl Acetate	8.683	43	161210	16.394	ug/l		97
44) Trichloroethene	9.347	130	70515	18.455	ug/l		95
45) 1,2-Dichloropropane	9.618	63	73654	19.572	ug/l		97
46) Dibromomethane	9.706	93	47242	18.604	ug/l		98
47) Bromodichloromethane	9.883	83	101328	19.367	ug/l		99
48) Methyl methacrylate	9.677	41	74790	19.627	ug/l		97
49) 1,4-Dioxane	9.694	88	28415	352.158	ug/l	#	96
51) 4-Methyl-2-Pentanone	10.441	43	456160	91.985	ug/l		98
52) Toluene	10.624	92	184334	18.722	ug/l		99
53) t-1,3-Dichloropropene	10.835	75	114600	20.688	ug/l		97
54) cis-1,3-Dichloropropene	10.306	75	122048	20.183	ug/l		99
55) 1,1,2-Trichloroethane	11.012	97	68666	18.696	ug/l		97
56) Ethyl methacrylate	10.877	69	117944	20.001	ug/l		96
57) 1,3-Dichloropropane	11.159	76	120199	18.997	ug/l		99
58) 2-Chloroethyl Vinyl ether	10.159	63	293754	111.459	ug/l		100
59) 2-Hexanone	11.200	43	296191	81.789	ug/l		96
60) Dibromochloromethane	11.359	129	76418	19.853	ug/l		97
61) 1,2-Dibromoethane	11.465	107	69273	18.769	ug/l		99
64) Tetrachloroethene	11.100	164	56471	15.757	ug/l		97
65) Chlorobenzene	11.888	112	199999	19.495	ug/l		97
66) 1,1,1,2-Tetrachloroethane	11.959	131	66741	20.152	ug/l		97
67) Ethyl Benzene	11.959	91	346395	19.713	ug/l		99
68) m/p-Xylenes	12.071	106	264199	39.696	ug/l		98
69) o-Xylene	12.394	106	134320	20.300	ug/l		98
70) Styrene	12.412	104	216399	19.976	ug/l		100
71) Bromoform	12.576	173	48865	20.747	ug/l	#	99
73) Isopropylbenzene	12.694	105	316849	19.684	ug/l		99
74) N-amyl acetate	12.506	43	116639	17.343	ug/l		97
75) 1,1,2,2-Tetrachloroethane	12.935	83	99132	20.046	ug/l		99
76) 1,2,3-Trichloropropane	12.994	75	81454m	17.281	ug/l		
77) Bromobenzene	12.976	156	74079	18.295	ug/l		100
78) n-propylbenzene	13.035	91	369822	20.020	ug/l		99
79) 2-Chlorotoluene	13.124	91	227183	18.915	ug/l		99
80) 1,3,5-Trimethylbenzene	13.171	105	257876	19.996	ug/l		99
81) trans-1,4-Dichloro-2-b...	12.735	75	44806	23.990	ug/l		88
82) 4-Chlorotoluene	13.218	91	225346	18.937	ug/l		99
83) tert-Butylbenzene	13.435	119	219969	19.559	ug/l		98
84) 1,2,4-Trimethylbenzene	13.482	105	259010	20.168	ug/l		100
85) sec-Butylbenzene	13.612	105	309139	20.500	ug/l		100
86) p-Isopropyltoluene	13.723	119	263891	21.349	ug/l		99
87) 1,3-Dichlorobenzene	13.729	146	137032	19.544	ug/l		98
88) 1,4-Dichlorobenzene	13.812	146	135663	19.528	ug/l		99
89) n-Butylbenzene	14.053	91	223830	21.843	ug/l		99
90) Hexachloroethane	14.329	117	44022	21.464	ug/l		98
91) 1,2-Dichlorobenzene	14.106	146	128800	19.313	ug/l		100
92) 1,2-Dibromo-3-Chloropr...	14.718	75	19200	23.437	ug/l		97
93) 1,2,4-Trichlorobenzene	15.394	180	69137	24.560	ug/l		99
94) Hexachlorobutadiene	15.500	225	24914	21.331	ug/l		98
95) Naphthalene	15.635	128	248177	25.391	ug/l		99
96) 1,2,3-Trichlorobenzene	15.841	180	67095	24.338	ug/l		100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN060325\
Data File : VN086837.D
Acq On : 03 Jun 2025 12:46
Operator : JC\MD
Sample : VN0603WBS01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 04 01:56:56 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N051625W.M
Quant Title : SW846 8260
QLast Update : Sat May 17 00:46:13 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VN0603WBS01

Manual Integrations APPROVED

Reviewed By :John Carlone 06/04/2025
Supervised By :Mahesh Dadoda 06/04/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

(#) = qualifier out of range (m) = manual integration (+) = signals summed

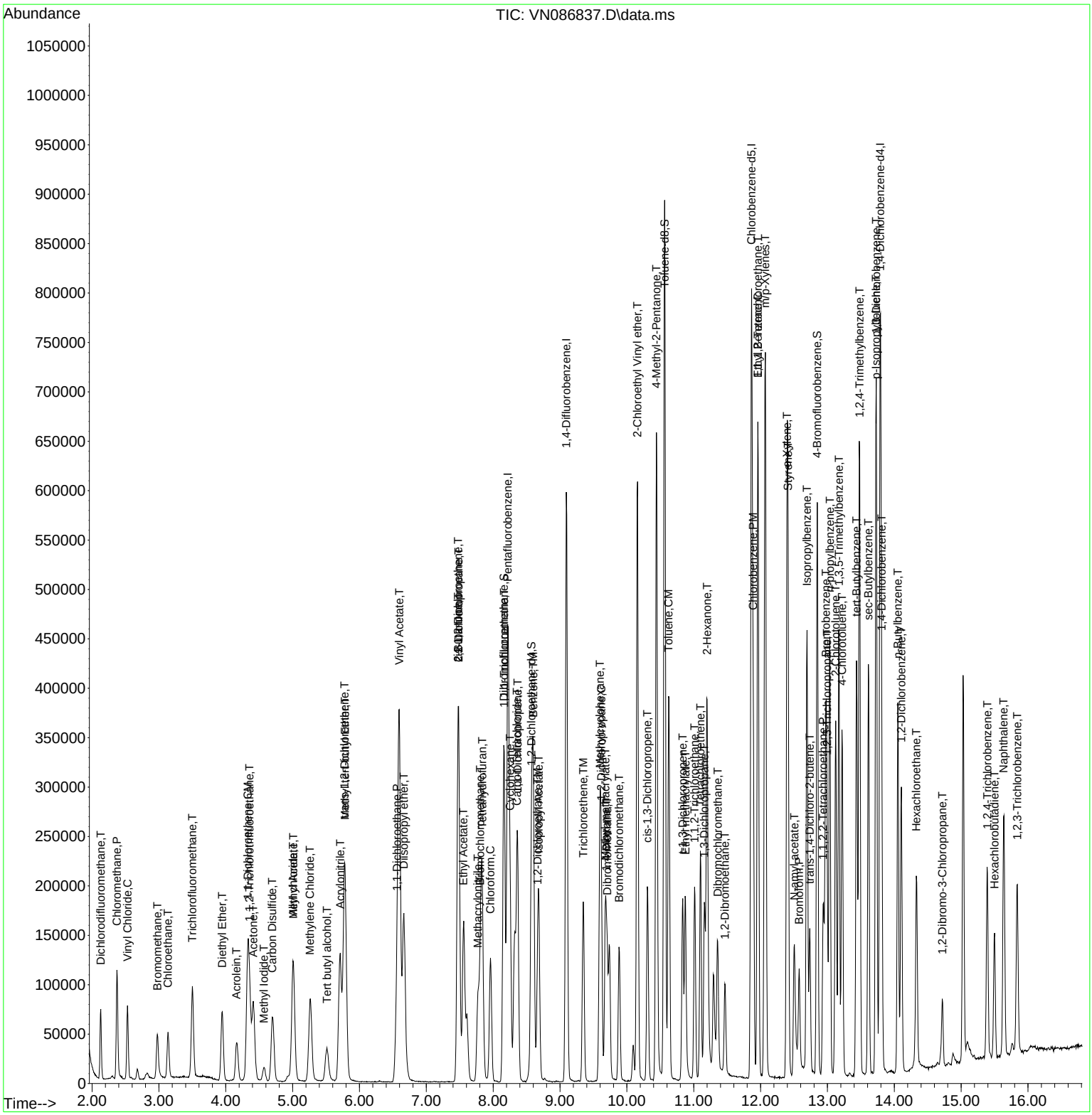
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN060325\
Data File : VN086837.D
Acq On : 03 Jun 2025 12:46
Operator : JC\MD
Sample : VN0603WBS01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 04 01:56:56 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N051625W.M
Quant Title : SW846 8260
QLast Update : Sat May 17 00:46:13 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VN0603WBS01

Manual Integrations APPROVED

Reviewed By :John Carlone 06/04/2025
Supervised By :Mahesh Dadoda 06/04/2025



Raw Data: **VN086838.D**

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	VN0603WBSD01	SDG No.:	Q2177
Lab Sample ID:	VN0603WBSD01	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:	Prep Date	Date Analyzed	Prep Batch ID
VN086838.D	1		06/03/25 13:20	VN060325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-01-4	Vinyl Chloride	16.1		0.26	5.00	ug/L
75-35-4	1,1-Dichloroethene	17.9		0.23	5.00	ug/L
78-93-3	2-Butanone	94.6		0.98	25.0	ug/L
56-23-5	Carbon Tetrachloride	18.5		0.25	5.00	ug/L
67-66-3	Chloroform	18.2		0.25	5.00	ug/L
71-43-2	Benzene	18.8		0.15	5.00	ug/L
107-06-2	1,2-Dichloroethane	18.3		0.22	5.00	ug/L
79-01-6	Trichloroethene	17.9		0.090	5.00	ug/L
127-18-4	Tetrachloroethene	15.4		0.23	5.00	ug/L
108-90-7	Chlorobenzene	19.4		0.12	5.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	46.4		70 (74) - 130 (125)	93%	SPK: 50
1868-53-7	Dibromofluoromethane	50.0		70 (75) - 130 (124)	100%	SPK: 50
2037-26-5	Toluene-d8	47.0		70 (86) - 130 (113)	94%	SPK: 50
460-00-4	4-Bromofluorobenzene	46.9		70 (77) - 130 (121)	94%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	284000	8.218			
540-36-3	1,4-Difluorobenzene	510000	9.094			
3114-55-4	Chlorobenzene-d5	431000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	192000	13.788			

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN060325\
Data File : VN086838.D
Acq On : 03 Jun 2025 13:20
Operator : JC\MD
Sample : VN0603WBSD01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 04 01:57:46 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N051625W.M
Quant Title : SW846 8260
QLast Update : Sat May 17 00:46:13 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VN0603WBSD01

Manual Integrations APPROVED

Reviewed By :John Carlone 06/04/2025
Supervised By :Mahesh Dadoda 06/04/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.218	168	283988	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.094	114	510275	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	430553	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	192303	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.571	65	181973	46.372	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 92.740%			
35) Dibromofluoromethane	8.159	113	151891	49.982	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 99.960%			
50) Toluene-d8	10.565	98	591397	46.961	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 93.920%			
62) 4-Bromofluorobenzene	12.847	95	208331	46.851	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 93.700%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.130	85	53812	17.546	ug/l	98
3) Chloromethane	2.371	50	110222	23.761	ug/l	100
4) Vinyl Chloride	2.530	62	66995	16.081	ug/l	96
5) Bromomethane	2.977	94	32163	13.392	ug/l	97
6) Chloroethane	3.136	64	44514	16.311	ug/l	99
7) Trichlorofluoromethane	3.501	101	88148	17.705	ug/l	98
8) Diethyl Ether	3.948	74	40628	19.754	ug/l	100
9) 1,1,2-Trichlorotrifluo...	4.353	101	56654	19.008	ug/l	98
10) Methyl Iodide	4.571	142	26910	7.258	ug/l	99
11) Tert butyl alcohol	5.512	59	64897	90.804	ug/l	99
12) 1,1-Dichloroethene	4.324	96	56706	17.902	ug/l	99
13) Acrolein	4.159	56	40557	53.083	ug/l	96
14) Allyl chloride	5.006	41	98262	20.495	ug/l	89
15) Acrylonitrile	5.712	53	166222	93.934	ug/l	99
16) Acetone	4.412	43	125964	85.812	ug/l	94
17) Carbon Disulfide	4.700	76	150213	17.128	ug/l	99
18) Methyl Acetate	5.012	43	76462	18.611	ug/l	99
19) Methyl tert-butyl Ether	5.789	73	214403	19.879	ug/l	100
20) Methylene Chloride	5.259	84	66446	17.153	ug/l	98
21) trans-1,2-Dichloroethene	5.771	96	60452	18.051	ug/l	95
22) Diisopropyl ether	6.659	45	211170	19.523	ug/l	98
23) Vinyl Acetate	6.594	43	785744	96.658	ug/l	98
24) 1,1-Dichloroethane	6.559	63	116831	18.397	ug/l	98
25) 2-Butanone	7.477	43	214606	94.610	ug/l	99
26) 2,2-Dichloropropane	7.483	77	103280	19.707	ug/l	100
27) cis-1,2-Dichloroethene	7.477	96	76629	18.641	ug/l	99
28) Bromochloromethane	7.812	49	57682	19.992	ug/l	96
29) Tetrahydrofuran	7.836	42	141314	95.445	ug/l	100
30) Chloroform	7.959	83	115571	18.183	ug/l	98
31) Cyclohexane	8.247	56	106015	18.000	ug/l	98
32) 1,1,1-Trichloroethane	8.159	97	98360	18.354	ug/l	94
36) 1,1-Dichloropropene	8.365	75	83438	18.614	ug/l	99
37) Ethyl Acetate	7.553	43	85931	18.978	ug/l	97
38) Carbon Tetrachloride	8.353	117	81872	18.537	ug/l	96
39) Methylcyclohexane	9.600	83	97899	20.179	ug/l	96
40) Benzene	8.600	78	274657	18.783	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN060325\
Data File : VN086838.D
Acq On : 03 Jun 2025 13:20
Operator : JC\MD
Sample : VN0603WBSD01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 04 01:57:46 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N051625W.M
Quant Title : SW846 8260
QLast Update : Sat May 17 00:46:13 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VN0603WBSD01

Manual Integrations APPROVED

Reviewed By :John Carlone 06/04/2025
Supervised By :Mahesh Dadoda 06/04/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.771	41	49006	20.045	ug/l		97
42) 1,2-Dichloroethane	8.665	62	83577	18.346	ug/l		96
43) Isopropyl Acetate	8.683	43	150999	16.635	ug/l		96
44) Trichloroethene	9.347	130	63258	17.936	ug/l		99
45) 1,2-Dichloropropane	9.618	63	67663	19.479	ug/l		98
46) Dibromomethane	9.706	93	44596	19.026	ug/l		99
47) Bromodichloromethane	9.882	83	93015	19.260	ug/l		98
48) Methyl methacrylate	9.677	41	68495	19.473	ug/l		97
49) 1,4-Dioxane	9.694	88	27033	362.952	ug/l	#	81
51) 4-Methyl-2-Pentanone	10.441	43	425395	92.930	ug/l		99
52) Toluene	10.630	92	168549	18.546	ug/l		98
53) t-1,3-Dichloropropene	10.835	75	104834	20.502	ug/l		100
54) cis-1,3-Dichloropropene	10.312	75	113076	20.258	ug/l		97
55) 1,1,2-Trichloroethane	11.012	97	63651	18.775	ug/l		98
56) Ethyl methacrylate	10.877	69	108927	20.011	ug/l		99
57) 1,3-Dichloropropane	11.159	76	112229	19.216	ug/l		100
58) 2-Chloroethyl Vinyl ether	10.159	63	278884	114.636	ug/l		99
59) 2-Hexanone	11.200	43	270873	81.032	ug/l		98
60) Dibromochloromethane	11.359	129	68721	19.342	ug/l		99
61) 1,2-Dibromoethane	11.471	107	64226	18.852	ug/l		100
64) Tetrachloroethene	11.100	164	50645	15.355	ug/l		97
65) Chlorobenzene	11.888	112	182720	19.353	ug/l		97
66) 1,1,1,2-Tetrachloroethane	11.959	131	61410	20.148	ug/l		97
67) Ethyl Benzene	11.965	91	313319	19.375	ug/l		100
68) m/p-Xylenes	12.071	106	239195	39.052	ug/l		98
69) o-Xylene	12.394	106	117643	19.319	ug/l		99
70) Styrene	12.412	104	196969	19.757	ug/l		100
71) Bromoform	12.576	173	44330	20.451	ug/l	#	98
73) Isopropylbenzene	12.694	105	287026	19.325	ug/l		99
74) N-amyl acetate	12.506	43	112027	18.053	ug/l		99
75) 1,1,2,2-Tetrachloroethane	12.935	83	93075	20.398	ug/l		100
76) 1,2,3-Trichloropropane	12.994	75	74966m	17.237	ug/l		
77) Bromobenzene	12.976	156	67245	17.999	ug/l		98
78) n-propylbenzene	13.035	91	329636	19.340	ug/l		99
79) 2-Chlorotoluene	13.123	91	205023	18.500	ug/l		100
80) 1,3,5-Trimethylbenzene	13.171	105	232803	19.564	ug/l		99
81) trans-1,4-Dichloro-2-b...	12.735	75	40628	23.575	ug/l		90
82) 4-Chlorotoluene	13.218	91	206930	18.846	ug/l		100
83) tert-Butylbenzene	13.435	119	206598	19.909	ug/l		97
84) 1,2,4-Trimethylbenzene	13.482	105	233529	19.708	ug/l		99
85) sec-Butylbenzene	13.612	105	275626	19.809	ug/l		99
86) p-Isopropyltoluene	13.729	119	236095	20.700	ug/l		99
87) 1,3-Dichlorobenzene	13.729	146	122189	18.887	ug/l		99
88) 1,4-Dichlorobenzene	13.812	146	122295	19.079	ug/l		98
89) n-Butylbenzene	14.053	91	202721	21.440	ug/l		99
90) Hexachloroethane	14.329	117	38593	20.394	ug/l		93
91) 1,2-Dichlorobenzene	14.106	146	118775	19.302	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	14.717	75	17995	23.806	ug/l		98
93) 1,2,4-Trichlorobenzene	15.394	180	63294	24.368	ug/l		99
94) Hexachlorobutadiene	15.494	225	22251	20.648	ug/l		98
95) Naphthalene	15.635	128	231862	25.709	ug/l		100
96) 1,2,3-Trichlorobenzene	15.841	180	61361	24.123	ug/l		99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN060325\
Data File : VN086838.D
Acq On : 03 Jun 2025 13:20
Operator : JC\MD
Sample : VN0603WBSD01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 04 01:57:46 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N051625W.M
Quant Title : SW846 8260
QLast Update : Sat May 17 00:46:13 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VN0603WBSD01

Manual Integrations APPROVED

Reviewed By :John Carlone 06/04/2025
Supervised By :Mahesh Dadoda 06/04/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN060325\
Data File : VN086838.D
Acq On : 03 Jun 2025 13:20
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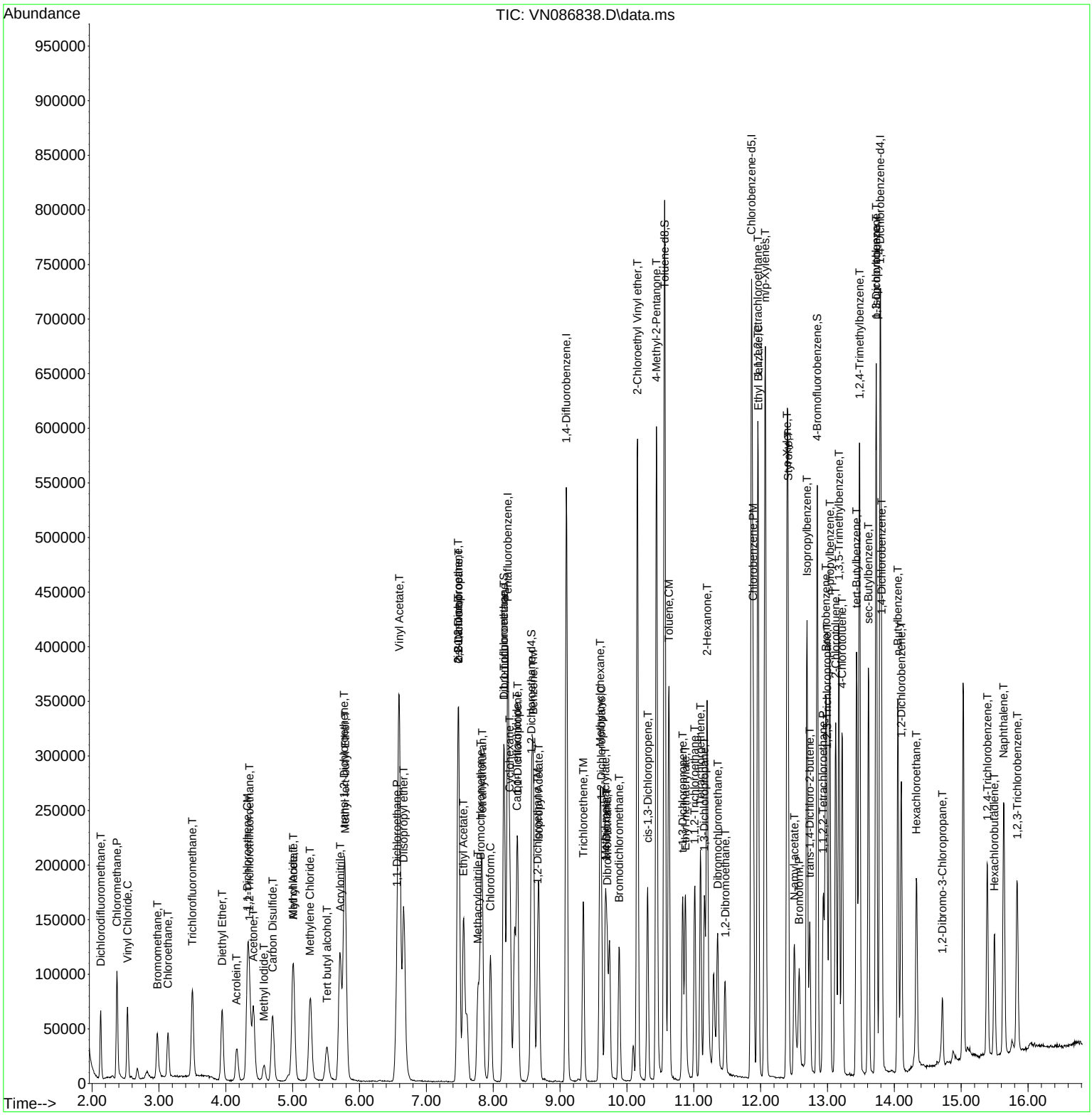
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N051625W.M
Quant Title : SW846 8260
QLast Update : Sat May 17 00:46:13 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VN0603WBSD01

Manual Integrations APPROVED

Reviewed By :John Carlone 06/04/2025
Supervised By :Mahesh Dadoda 06/04/2025



284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900, Fax : 908 789 8922

Manual Integration Report

Sequence:	vn051625	Instrument	MSVOA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC020	VN086661.D	1,2,3-Trichloropropane	JOHN	5/19/2025 9:32:47 AM	MMDadoda	5/19/2025 2:39:59 PM	Peak Integrated by Software
VSTDCCC020	VN086667.D	1,2,3-Trichloropropane	JOHN	5/19/2025 9:33:01 AM	MMDadoda	5/19/2025 2:40:37 PM	Peak Integrated by Software
VSTDICC001	VN086669.D	1,2,3-Trichloropropane	JOHN	5/19/2025 9:33:07 AM	MMDadoda	5/19/2025 2:40:35 PM	Peak Integrated by Software
VSTDICC001	VN086669.D	1,4-Dichlorobenzene	JOHN	5/19/2025 9:33:07 AM	MMDadoda	5/19/2025 2:40:35 PM	Peak Integrated by Software
VSTDICC001	VN086669.D	Isopropyl Acetate	JOHN	5/19/2025 9:33:07 AM	MMDadoda	5/19/2025 2:40:35 PM	Peak Integrated by Software
VSTDICC005	VN086670.D	1,2,3-Trichloropropane	JOHN	5/19/2025 9:33:13 AM	MMDadoda	5/19/2025 2:40:36 PM	Peak Integrated by Software
VSTDICC005	VN086670.D	Ethyl Acetate	JOHN	5/19/2025 9:33:13 AM	MMDadoda	5/19/2025 2:40:36 PM	Peak Integrated by Software
VSTDICC005	VN086670.D	Vinyl Acetate	JOHN	5/19/2025 9:33:13 AM	MMDadoda	5/19/2025 2:40:36 PM	Peak Integrated by Software
VSTDICC010	VN086671.D	1,2,3-Trichloropropane	JOHN	5/19/2025 9:33:17 AM	MMDadoda	5/19/2025 2:40:45 PM	Peak Integrated by Software
VSTDICC010	VN086671.D	Vinyl Acetate	JOHN	5/19/2025 9:33:17 AM	MMDadoda	5/19/2025 2:40:45 PM	Peak Integrated by Software
VSTDICC020	VN086672.D	1,2,3-Trichloropropane	JOHN	5/19/2025 9:33:24 AM	MMDadoda	5/19/2025 2:40:35 PM	Peak Integrated by Software
VSTDICCC050	VN086673.D	1,2,3-Trichloropropane	JOHN	5/19/2025 9:33:44 AM	MMDadoda	5/19/2025 2:40:38 PM	Peak Integrated by Software
VSTDICC100	VN086674.D	1,2,3-Trichloropropane	JOHN	5/19/2025 9:33:48 AM	MMDadoda	5/19/2025 2:40:42 PM	Peak Integrated by Software

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900, Fax : 908 789 8922

Manual Integration Report

Sequence:	vn051625	Instrument	MSVOA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICV050	VN086676.D	1,2,3-Trichloropropane	JOHN	5/19/2025 9:33:53 AM	MMDadoda	5/19/2025 2:40:47 PM	Peak Integrated by Software

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900, Fax : 908 789 8922

Manual Integration Report

Sequence:	VN060325	Instrument	MSVOA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC050	VN086835.D	1,2,3-Trichloropropane	JOHN	6/4/2025 9:47:39 AM	MMDadoda	6/4/2025 4:21:22 PM	Peak Integrated by Software
VN0603WBS01	VN086837.D	1,2,3-Trichloropropane	JOHN	6/4/2025 9:47:43 AM	MMDadoda	6/4/2025 4:21:23 PM	Peak Integrated by Software
VN0603WBSD01	VN086838.D	1,2,3-Trichloropropane	JOHN	6/4/2025 9:47:48 AM	MMDadoda	6/4/2025 4:21:25 PM	Peak Integrated by Software
Q2177-07	VN086857.D	Methylene Chloride	JOHN	6/4/2025 9:48:04 AM	MMDadoda	6/4/2025 4:21:29 PM	Peak Integrated by Software
VSTDCCC050	VN086860.D	1,2,3-Trichloropropane	JOHN	6/4/2025 9:48:08 AM	MMDadoda	6/4/2025 4:21:30 PM	Peak Integrated by Software

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QCBatch ID # VN051625

Review By	John Carlone	Review On	5/19/2025 9:34:08 AM		
Supervise By	Mahesh Dadoda	Supervise On	5/19/2025 2:40:58 PM		
SubDirectory	VN051625	HP Acquire Method		HP Processing Method	624N042325W.M

STD. NAME	STD REF.#
Tune/Reschk	VP133946,VP133952
Initial Calibration Stds	
CCC	VP133947,VP133948
Internal Standard/PEM	
ICV/I.BLK	VP133981
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VN086660.D	16 May 2025 09:17	JC\MD	Ok
2	VSTDCCC020	VN086661.D	16 May 2025 11:37	JC\MD	Ok,M
3	VN0516WBS01	VN086662.D	16 May 2025 12:13	JC\MD	Ok,M
4	VN0516WBSD01	VN086663.D	16 May 2025 12:46	JC\MD	Ok,M
5	VN0516WBL01	VN086664.D	16 May 2025 13:20	JC\MD	Ok
6	Q2006-01	VN086665.D	16 May 2025 13:54	JC\MD	Ok
7	IBLK	VN086666.D	16 May 2025 14:46	JC\MD	Ok
8	VSTDCCC020	VN086667.D	16 May 2025 15:09	JC\MD	Ok,M
9	BFB	VN086668.D	16 May 2025 15:33	JC\MD	Ok
10	VSTDICC001	VN086669.D	16 May 2025 16:31	JC\MD	Ok,M
11	VSTDICC005	VN086670.D	16 May 2025 16:55	JC\MD	Ok,M
12	VSTDICC010	VN086671.D	16 May 2025 17:19	JC\MD	Ok,M
13	VSTDICC020	VN086672.D	16 May 2025 17:43	JC\MD	Ok,M
14	VSTDICCC050	VN086673.D	16 May 2025 18:08	JC\MD	Ok,M
15	VSTDICC100	VN086674.D	16 May 2025 18:32	JC\MD	Ok,M
16	IBLK	VN086675.D	16 May 2025 18:56	JC\MD	Ok
17	VSTDICV050	VN086676.D	16 May 2025 19:20	JC\MD	Ok,M

M : Manual Integration

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QCBatch ID # VN060325

Review By	John Carlone	Review On	6/4/2025 9:49:12 AM		
Supervise By	Mahesh Dadoda	Supervise On	6/4/2025 4:21:37 PM		
SubDirectory	VN060325	HP Acquire Method		HP Processing Method	82N051625W.M

STD. NAME	STD REF.#
Tune/Reschk	VP134103
Initial Calibration Stds	
CCC	VP134104,VP134105
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VN086834.D	03 Jun 2025 10:47	JC\MD	Ok
2	VSTDCCC050	VN086835.D	03 Jun 2025 11:30	JC\MD	Ok,M
3	VN0603WBL01	VN086836.D	03 Jun 2025 12:10	JC\MD	Ok
4	VN0603WBS01	VN086837.D	03 Jun 2025 12:46	JC\MD	Ok,M
5	VN0603WBSD01	VN086838.D	03 Jun 2025 13:20	JC\MD	Ok,M
6	PB168225TB	VN086839.D	03 Jun 2025 13:44	JC\MD	Ok
7	PB168225ZHE#01	VN086840.D	03 Jun 2025 14:08	JC\MD	Ok
8	PB168225ZHE#02	VN086841.D	03 Jun 2025 14:33	JC\MD	Ok
9	PB168225ZHE#03	VN086842.D	03 Jun 2025 14:57	JC\MD	Ok
10	PB168225ZHE#04	VN086843.D	03 Jun 2025 15:21	JC\MD	Ok
11	PB168225ZHE#05	VN086844.D	03 Jun 2025 15:45	JC\MD	Ok
12	PB168225ZHE#06	VN086845.D	03 Jun 2025 16:09	JC\MD	Ok
13	PB168225ZHE#07	VN086846.D	03 Jun 2025 16:34	JC\MD	Ok
14	PB168225ZHE#08	VN086847.D	03 Jun 2025 16:58	JC\MD	Ok
15	PB168225ZHE#09	VN086848.D	03 Jun 2025 17:22	JC\MD	Ok
16	PB168225ZHE#10	VN086849.D	03 Jun 2025 17:46	JC\MD	Ok
17	PB168225ZHE#11	VN086850.D	03 Jun 2025 18:11	JC\MD	Ok
18	PB168225ZHE#12	VN086851.D	03 Jun 2025 18:36	JC\MD	Ok,M
19	PB168225ZHE#13	VN086852.D	03 Jun 2025 18:59	JC\MD	Ok
20	PB168225ZHE#14	VN086853.D	03 Jun 2025 19:23	JC\MD	Ok
21	PB168225ZHE#15	VN086854.D	03 Jun 2025 19:48	JC\MD	Ok

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Fax : 908 789 8922

Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QCBatch ID # VN060325

Review By	John Carlone	Review On	6/4/2025 9:49:12 AM		
Supervise By	Mahesh Dadoda	Supervise On	6/4/2025 4:21:37 PM		
SubDirectory	VN060325	HP Acquire Method		HP Processing Method	82N051625W.M

STD. NAME	STD REF.#
Tune/Reschk	VP134103
Initial Calibration Stds	
CCC	VP134104,VP134105
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	Q2177-03	VN086855.D	03 Jun 2025 20:12	JC\MD	Ok
23	Q2177-05	VN086856.D	03 Jun 2025 20:36	JC\MD	Ok
24	Q2177-07	VN086857.D	03 Jun 2025 21:00	JC\MD	Ok,M
25	Q2185-04	VN086858.D	03 Jun 2025 21:25	JC\MD	Ok
26	Q2185-08	VN086859.D	03 Jun 2025 21:49	JC\MD	Ok
27	VSTDCCC050	VN086860.D	03 Jun 2025 22:13	JC\MD	Ok,M

M : Manual Integration

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Fax : 908 789 8922

Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QCBatch ID # VN051625

Review By	John Carlone	Review On	5/19/2025 9:34:08 AM		
Supervise By	Mahesh Dadoda	Supervise On	5/19/2025 2:40:58 PM		
SubDirectory	VN051625	HP Acquire Method		HP Processing Method	624N042325W.M

STD. NAME	STD REF.#
Tune/Reschk	VP133946,VP133952
Initial Calibration Stds	
CCC	VP133947,VP133948
Internal Standard/PEM	
ICV/I.BLK	VP133981
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VN086660.D	16 May 2025 09:17		JC\MD	Ok
2	VSTDCCC020	VSTDCCC020	VN086661.D	16 May 2025 11:37	pH#Lot#V12668	JC\MD	Ok,M
3	VN0516WBS01	VN0516WBS01	VN086662.D	16 May 2025 12:13		JC\MD	Ok,M
4	VN0516WBSD01	VN0516WBSD01	VN086663.D	16 May 2025 12:46		JC\MD	Ok,M
5	VN0516WBL01	VN0516WBL01	VN086664.D	16 May 2025 13:20		JC\MD	Ok
6	Q2006-01	EFF-WW	VN086665.D	16 May 2025 13:54	vial A pH<2	JC\MD	Ok
7	IBLK	IBLK	VN086666.D	16 May 2025 14:46		JC\MD	Ok
8	VSTDCCC020	VSTDCCC020EC	VN086667.D	16 May 2025 15:09		JC\MD	Ok,M
9	BFB	BFB	VN086668.D	16 May 2025 15:33		JC\MD	Ok
10	VSTDICC001	VSTDICC001	VN086669.D	16 May 2025 16:31		JC\MD	Ok,M
11	VSTDICC005	VSTDICC005	VN086670.D	16 May 2025 16:55		JC\MD	Ok,M
12	VSTDICC010	VSTDICC010	VN086671.D	16 May 2025 17:19		JC\MD	Ok,M
13	VSTDICC020	VSTDICC020	VN086672.D	16 May 2025 17:43		JC\MD	Ok,M
14	VSTDICCC050	VSTDICCC050	VN086673.D	16 May 2025 18:08		JC\MD	Ok,M
15	VSTDICC100	VSTDICC100	VN086674.D	16 May 2025 18:32		JC\MD	Ok,M
16	IBLK	IBLK	VN086675.D	16 May 2025 18:56		JC\MD	Ok
17	VSTDICV050	ICVVN051625	VN086676.D	16 May 2025 19:20		JC\MD	Ok,M

M : Manual Integration

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Fax : 908 789 8922

Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QCBatch ID # VN060325

Review By	John Carlone	Review On	6/4/2025 9:49:12 AM		
Supervise By	Mahesh Dadoda	Supervise On	6/4/2025 4:21:37 PM		
SubDirectory	VN060325	HP Acquire Method		HP Processing Method	82N051625W.M

STD. NAME	STD REF.#
Tune/Reschk	VP134103
Initial Calibration Stds	
CCC	VP134104,VP134105
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VN086834.D	03 Jun 2025 10:47		JC\MD	Ok
2	VSTDCCC050	VSTDCCC050	VN086835.D	03 Jun 2025 11:30	pH#Lot#V12668	JC\MD	Ok,M
3	VN0603WBL01	VN0603WBL01	VN086836.D	03 Jun 2025 12:10		JC\MD	Ok
4	VN0603WBS01	VN0603WBS01	VN086837.D	03 Jun 2025 12:46		JC\MD	Ok,M
5	VN0603WBSD01	VN0603WBSD01	VN086838.D	03 Jun 2025 13:20		JC\MD	Ok,M
6	PB168225TB	PB168225TB	VN086839.D	03 Jun 2025 13:44		JC\MD	Ok
7	PB168225ZHE#01	PB168225ZHE#01	VN086840.D	03 Jun 2025 14:08		JC\MD	Ok
8	PB168225ZHE#02	PB168225ZHE#02	VN086841.D	03 Jun 2025 14:33		JC\MD	Ok
9	PB168225ZHE#03	PB168225ZHE#03	VN086842.D	03 Jun 2025 14:57		JC\MD	Ok
10	PB168225ZHE#04	PB168225ZHE#04	VN086843.D	03 Jun 2025 15:21		JC\MD	Ok
11	PB168225ZHE#05	PB168225ZHE#05	VN086844.D	03 Jun 2025 15:45		JC\MD	Ok
12	PB168225ZHE#06	PB168225ZHE#06	VN086845.D	03 Jun 2025 16:09		JC\MD	Ok
13	PB168225ZHE#07	PB168225ZHE#07	VN086846.D	03 Jun 2025 16:34		JC\MD	Ok
14	PB168225ZHE#08	PB168225ZHE#08	VN086847.D	03 Jun 2025 16:58		JC\MD	Ok
15	PB168225ZHE#09	PB168225ZHE#09	VN086848.D	03 Jun 2025 17:22		JC\MD	Ok
16	PB168225ZHE#10	PB168225ZHE#10	VN086849.D	03 Jun 2025 17:46		JC\MD	Ok
17	PB168225ZHE#11	PB168225ZHE#11	VN086850.D	03 Jun 2025 18:11		JC\MD	Ok
18	PB168225ZHE#12	PB168225ZHE#12	VN086851.D	03 Jun 2025 18:36		JC\MD	Ok,M

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Fax : 908 789 8922

Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QCBatch ID # VN060325

Review By	John Carlone	Review On	6/4/2025 9:49:12 AM		
Supervise By	Mahesh Dadoda	Supervise On	6/4/2025 4:21:37 PM		
SubDirectory	VN060325	HP Acquire Method		HP Processing Method	82N051625W.M

STD. NAME	STD REF.#
Tune/Reschk	VP134103
Initial Calibration Stds	
CCC	VP134104,VP134105
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	PB168225ZHE#13	PB168225ZHE#13	VN086852.D	03 Jun 2025 18:59		JC\MD	Ok
20	PB168225ZHE#14	PB168225ZHE#14	VN086853.D	03 Jun 2025 19:23		JC\MD	Ok
21	PB168225ZHE#15	PB168225ZHE#15	VN086854.D	03 Jun 2025 19:48		JC\MD	Ok
22	Q2177-03	B-187-SB01	VN086855.D	03 Jun 2025 20:12	vial A pH#5.0	JC\MD	Ok
23	Q2177-05	B-187-SB02	VN086856.D	03 Jun 2025 20:36	vial A pH#5.0	JC\MD	Ok
24	Q2177-07	B-202-SB01	VN086857.D	03 Jun 2025 21:00	vial A pH#5.0	JC\MD	Ok,M
25	Q2185-04	TP02-MHB-WC	VN086858.D	03 Jun 2025 21:25	vial A pH#5.0	JC\MD	Ok
26	Q2185-08	TP01-MHB-WC	VN086859.D	03 Jun 2025 21:49	vial A pH#5.0	JC\MD	Ok
27	VSTDCCC050	VSTDCCC050EC	VN086860.D	03 Jun 2025 22:13		JC\MD	Ok,M

M : Manual Integration

Alliance TECHNICAL GROUP

TCLP EXTRACTION LOGPAGE

PB168225

SOP ID : M1311-TCLP-16

SDG No : N/A

Weigh By : JP

Balance ID : WC SC-7

pH Meter ID : WC PH METER-1

Extraction By : JP

Filter By : JP

Pippete ID : WC

Tumbler ID : ZHE-1 / ZHE-2

TCLP Filter ID : 50223706

Start Prep Date : 06/02/2025 **Time :** 16:00

End Prep Date : 06/03/2025 **Time :** 09:15

Combination Ratio : 20

ZHE Cleaning Batch : ~~N/A~~ JP JN060325.

Initial Room Temperature: 22 °C

Final Room Temperature: 21 °C

TCLP Technician Signature : JP

Supervisor By : SJ

Standared Name	MLS USED	STD REF. # FROM LOG
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Chemical Used	ML/SAMPLE U	Lot Number
TCLP-FLUID-1	N/A	WP112795
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
40ml VOA Vials	430992	N/A

Extraction Conformance/Non-Conformance Comments:

TUMBLER ZHE-1 /ZHE-2 checked,30 rpm. ALL ZHE samples are extracted and given as vial A & B. Leak checked after 10 minutes of tumbling.

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
06/03/25 11:00	JP TCLP Room	SJ VOC Lab
	Preparation Group	Analysis Group

Alliance TECHNICAL GROUP

TCLP EXTRACTION LOGPAGE

PB168225

Sample ID	ClientID	ZHE Vessel ID	Sample Wt (g)	Volume Extraction Fluid #1 (mL)	Multi phasic	Phase Miscible	Phases Combined	Final Leachate PH	Metals Leachate Adj. PH	Prep Pos
PB168225TB	LEB225	16	N/A	500	N/A	N/A	N/A	4.93	N/A	ZHE-2
Q2159-04	TP05-MHO-WC	01	25.03	500	N/A	N/A	N/A	N/A	N/A	ZHE-1
Q2160-04	TP04-MHG-WC	02	25.02	500	N/A	N/A	N/A	N/A	N/A	ZHE-1
Q2160-08	TP05-MHH-WC	03	25.01	500	N/A	N/A	N/A	N/A	N/A	ZHE-1
Q2168-04	A3	04	25.02	500	N/A	N/A	N/A	N/A	N/A	ZHE-1
Q2168-08	B3	05	25.03	500	N/A	N/A	N/A	N/A	N/A	ZHE-1
Q2168-12	C2	06	25.04	500	N/A	N/A	N/A	N/A	N/A	ZHE-1
Q2172-04	TP06-MHQ	07	25.03	500	N/A	N/A	N/A	N/A	N/A	ZHE-1
Q2173-06	OR-400-CF-402B-COMP-23	08	25.04	500	N/A	N/A	N/A	N/A	N/A	ZHE-1
Q2173-12	OR-400-CF-402B-COMP-24	09	25.03	500	N/A	N/A	N/A	N/A	N/A	ZHE-1
Q2173-18	OR-400-CF-402B-COMP-25	10	25.02	500	N/A	N/A	N/A	N/A	N/A	ZHE-1
Q2177-03	B-187-SB01	11	25.02	500	N/A	N/A	N/A	N/A	N/A	ZHE-2
Q2177-05	B-187-SB02	12	25.01	500	N/A	N/A	N/A	N/A	N/A	ZHE-2
Q2177-07	B-202-SB01	13	25.03	500	N/A	N/A	N/A	N/A	N/A	ZHE-2
Q2185-04	TP02-MHB-WC	14	25.02	500	N/A	N/A	N/A	N/A	N/A	ZHE-2
Q2185-08	TP01-MHB-WC	15	25.03	500	N/A	N/A	N/A	N/A	N/A	ZHE-2

SampleID	ClientID	Sample Weight (g)	Filter Weight (g)	Filtrate (mL)	Filter + Solid (After 100°C)	% solids	% Dry Solids
PB168225TB	LEB225	N/A	N/A	N/A	N/A	N/A	N/A
Q2159-04	TP05-MHO-WC	N/A	N/A	N/A	N/A	100	N/A
Q2160-04	TP04-MHG-WC	N/A	N/A	N/A	N/A	100	N/A
Q2160-08	TP05-MHH-WC	N/A	N/A	N/A	N/A	100	N/A
Q2168-04	A3	N/A	N/A	N/A	N/A	100	N/A
Q2168-08	B3	N/A	N/A	N/A	N/A	100	N/A
Q2168-12	C2	N/A	N/A	N/A	N/A	100	N/A
Q2172-04	TP06-MHQ	N/A	N/A	N/A	N/A	100	N/A
Q2173-06	OR-400-CF-402B-COMP-23	N/A	N/A	N/A	N/A	100	N/A
Q2173-12	OR-400-CF-402B-COMP-24	N/A	N/A	N/A	N/A	100	N/A
Q2173-18	OR-400-CF-402B-COMP-25	N/A	N/A	N/A	N/A	100	N/A
Q2177-03	B-187-SB01	N/A	N/A	N/A	N/A	100	N/A
Q2177-05	B-187-SB02	N/A	N/A	N/A	N/A	100	N/A
Q2177-07	B-202-SB01	N/A	N/A	N/A	N/A	100	N/A
Q2185-04	TP02-MHB-WC	N/A	N/A	N/A	N/A	100	N/A
Q2185-08	TP01-MHB-WC	N/A	N/A	N/A	N/A	100	N/A

WORKLIST(Hardcopy Internal Chain)

WorkList Name : tclp zhe q2177 **WorkList ID :** 189872 **Department :** TCLP Extraction **Date :** 06-02-2025 12:11:51

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q2159-04	TP05-MHO-WC	Solid	TCLP ZHE Extraction	Cool 4 deg C	PSEG03	L41	05/29/2025	1311 ZHE
Q2160-04	TP04-MHG-WC	Solid	TCLP ZHE Extraction	Cool 4 deg C	PSEG03	L41	05/29/2025	1311 ZHE
Q2160-08	TP05-MHH-WC	Solid	TCLP ZHE Extraction	Cool 4 deg C	PSEG03	L41	05/29/2025	1311 ZHE
Q2168-04	A3	Solid	TCLP ZHE Extraction	Cool 4 deg C	PSEG03	L41	05/29/2025	1311 ZHE
Q2168-08	B3	Solid	TCLP ZHE Extraction	Cool 4 deg C	PSEG03	L41	05/30/2025	1311 ZHE
Q2168-12	C2	Solid	TCLP ZHE Extraction	Cool 4 deg C	PSEG03	L41	05/30/2025	1311 ZHE
Q2172-04	TP06-MHQ	Solid	TCLP ZHE Extraction	Cool 4 deg C	PSEG03	L41	05/30/2025	1311 ZHE
Q2173-06	OR-400-CF-402B-COMP-23	Solid	TCLP ZHE Extraction	Cool 4 deg C	PSEG03	L31	05/30/2025	1311 ZHE
Q2173-12	OR-400-CF-402B-COMP-24	Solid	TCLP ZHE Extraction	Cool 4 deg C	PSEG03	L31	05/30/2025	1311 ZHE
Q2173-18	OR-400-CF-402B-COMP-25	Solid	TCLP ZHE Extraction	Cool 4 deg C	PSEG03	L31	05/30/2025	1311 ZHE
Q2177-03	B-187-SB01	Solid	TCLP ZHE Extraction	Cool 4 deg C	PSEG03	L31	05/30/2025	1311 ZHE
Q2177-05	B-187-SB02	Solid	TCLP ZHE Extraction	Cool 4 deg C	PORT06	L41	05/31/2025	1311 ZHE
Q2177-07	B-202-SB01	Solid	TCLP ZHE Extraction	Cool 4 deg C	PORT06	L41	05/31/2025	1311 ZHE
Q2185-04	TP02-MHB-WC	Solid	TCLP ZHE Extraction	Cool 4 deg C	PORT06	L41	05/31/2025	1311 ZHE
Q2185-08	TP01-MHB-WC	Solid	TCLP ZHE Extraction	Cool 4 deg C	PSEG03	L31	06/02/2025	1311 ZHE
					PSEG03	L31	06/02/2025	1311 ZHE

Date/Time 06/02/25 15:00
Raw Sample Received by: [signature]
Raw Sample Relinquished by: [signature] SM

Date/Time 06/02/25 17:30
Raw Sample Received by: [signature] SM
Raw Sample Relinquished by: [signature]

SHIPPING DOCUMENTS

Alliance TECHNICAL GROUP

284 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 • Fax (908) 789-8922
www.chemtech.net

ALLIANCE PROJECT NO.
QUOTE NO. Q2177
COC Number 2046411

CLIENT INFORMATION

REPORT TO BE SENT TO:
COMPANY: Gannett Fleming
ADDRESS: 1010 Adams Avenue
CITY Audubon STATE: PA ZIP: 19403
ATTENTION: Joe Krupansky
PHONE: 610-310-8342 FAX:

CLIENT PROJECT INFORMATION

PROJECT NAME: Amtrak Sawdust
PROJECT NO.: 95000878 LOCATION: Kearny NJ
PROJECT MANAGER: Joe Krupansky
e-mail: QAQC@BEMSS.com
PHONE: 610-310-8342 FAX:

CLIENT BILLING INFORMATION

BILL TO: Alliance PO#:
ADDRESS: 284 Sheffield
CITY Mountainside STATE: NJ ZIP: 07092
ATTENTION Samantha Beasley PHONE: 908-728-3148

DATA TURNAROUND INFORMATION

FAX (RUSH) _____ DAYS*
HARDCOPY (DATA PACKAGE): 10 DAYS*
EDD: 10 DAYS*
*TO BE APPROVED BY CHEMTECH
STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS

DATA DELIVERABLE INFORMATION

- ☐ Level 1 (Results Only)
- ☐ Level 2 (Results + QC)
- ☐ Level 3 (Results + QC + Raw Data)
- ☐ Level 4 (QC + Full Raw Data)
- ☐ NJ Reduced
- ☐ NYS ASP A
- ☐ NYS ASP B
- ☐ Other
- ☐ EDD FORMAT Bem EDD

ANALYSIS

1: TCL-VOC +10
2: PCBs
3: Cr(VI) Cr(III)
4: TCL-SVOCs-BNA 30
5: TAL metals
6: EPH
7: Full TCLP
8: RCRA
9: Aroclors

ALLIANCE SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE COMP	SAMPLE TYPE GRAB	SAMPLE COLLECTION DATE	SAMPLE COLLECTION TIME	# OF BOTTLES	PRESERVATIVES 1	2	3	4	5	6	7	8	9	COMMENTS
1.	B-187-SB00	S		X	5/31/25	900	5	X									← Specify Preservatives A-HCl D-NaOH B-HN03 E-ICE C-H2SO4 F-OTHER
2.	B-187-SB01			X		930	8	X	X	X	X	X	X	X	X		
3.	B-187-SB02			X		1000	8	X	X	X	X	X	X	X	X		
4.	B-202-SB01			X		1015	8	X	X	X	X	X	X	X	X		
5.	EB05312025	DIW				1415	8	X	X	X	X	X	X				
6.	TB05312025	DIW				NA		X									
7.																	
8.																	
9.																	
10.																	

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:
1.	5/31/25	1. 6-2-25 0700
2.		2.
3.		3.

Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP 4.7°C °C
Comments:

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CLIENT: ☐ Hand Delivered ☐ Other

Shipment Complete ☐ YES ☐ NO

WHITE - ALLIANCE COPY FOR RETURN TO CLIENT YELLOW - ALLIANCE COPY PINK - SAMPLER COPY

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

Laboratory Certification

Certified By	License No.
CAS EPA CLP Contract	68HERH20D0011
Connecticut	PH-0830
DOD ELAP (ANAB)	L2219
Maine	2024021
Maryland	296
New Hampshire	255424 Rev 1
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	525-24-234-08441
Texas	T104704488

QA Control Code: A2070148