

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 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:	Q2664	OrderDate:	7/21/2025 2:32:00 PM
Client:	G Environmental	Project:	Nelson
Contact:	Gary Landis	Location:	O33,VOA Lab

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q2664-01	GDW3	Water	VOCMS Group1	8260-Low	07/21/25		07/21/25	07/21/25

Hit Summary Sheet
SW-846

SDG No.: Q2664

Client: G Environmental

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID:	GDW3							
Q2664-01	GDW3	Water	2-Butanone	3.00	J	0.98	5.00	ug/L
Q2664-01	GDW3	Water	Benzene	2.10		0.15	1.00	ug/L
Q2664-01	GDW3	Water	Toluene	21.1		0.14	1.00	ug/L
Q2664-01	GDW3	Water	Ethyl Benzene	1.80		0.13	1.00	ug/L
Q2664-01	GDW3	Water	m/p-Xylenes	3.70		0.24	2.00	ug/L
Q2664-01	GDW3	Water	o-Xylene	2.00		0.12	1.00	ug/L
Q2664-01	GDW3	Water	1,2,4-Trimethylbenzene	0.41	J	0.14	1.00	ug/L
			Total Voc :			34.1		
Q2664-01	GDW3	Water	Acetone	* 6.40	J	1.50	5.00	ug/L
			Total Tics :			6.40		
			Total Concentration:			40.5		



QC SUMMARY

Surrogate Summary

SDG No.: **Q2664**

Client: **G Environmental**

Analytical Method: **SW8260-Low**

Lab Sample ID	Client ID	Parameter	Spike	Result	Recovery (%)	Qual	Limits (%)	
							Low	High
Q2664-01	GDW3	1,2-Dichloroethane-d4	50	56.2	112		74	125
		Dibromofluoromethane	50	49.9	100		75	124
		Toluene-d8	50	51.5	103		86	113
		4-Bromofluorobenzene	50	50.5	101		77	121
VN0721WBL01	VN0721WBL01	1,2-Dichloroethane-d4	50	54.7	109		74	125
		Dibromofluoromethane	50	51.4	103		75	124
		Toluene-d8	50	51.0	102		86	113
		4-Bromofluorobenzene	50	46.4	93		77	121
VN0721WBS01	VN0721WBS01	1,2-Dichloroethane-d4	50	47.3	95		74	125
		Dibromofluoromethane	50	48.8	98		75	124
		Toluene-d8	50	50.4	101		86	113
		4-Bromofluorobenzene	50	49.9	100		77	121
VN0721WBSD0	VN0721WBSD01	1,2-Dichloroethane-d4	50	47.2	94		74	125
		Dibromofluoromethane	50	50.3	101		75	124
		Toluene-d8	50	50.6	101		86	113
		4-Bromofluorobenzene	50	50.0	100		77	121

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.:	<u>Q2664</u>	Analytical Method:	<u>SW8260-Low</u>
Client:	<u>G Environmental</u>	Datafile :	<u>VN087371.D</u>

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VN0721WBS01	Dichlorodifluoromethane	20	21.9	ug/L	110			69	116	
	Chloromethane	20	18.8	ug/L	94			65	116	
	Vinyl chloride	20	19.0	ug/L	95			65	117	
	Bromomethane	20	19.2	ug/L	96			58	125	
	Chloroethane	20	18.1	ug/L	91			56	128	
	Trichlorofluoromethane	20	19.1	ug/L	96			73	115	
	1,1,2-Trichlorotrifluoroethane	20	20.4	ug/L	102			80	112	
	1,1-Dichloroethene	20	18.1	ug/L	91			74	110	
	Acrolein	100	83.6	ug/L	84			28	144	
	Carbon disulfide	20	18.4	ug/L	92			64	112	
	Methyl tert-butyl Ether	20	17.2	ug/L	86			78	114	
	Methyl Acetate	20	17.6	ug/L	88			67	125	
	Methylene Chloride	20	17.3	ug/L	86			72	114	
	trans-1,2-Dichloroethene	20	17.8	ug/L	89			75	108	
	1,1-Dichloroethane	20	17.6	ug/L	88			78	112	
	Cyclohexane	20	20.1	ug/L	101			75	110	
	2-Butanone	100	86.4	ug/L	86			65	122	
	Carbon Tetrachloride	20	19.6	ug/L	98			77	113	
	cis-1,2-Dichloroethene	20	18.0	ug/L	90			77	110	
	Bromochloromethane	20	17.8	ug/L	89			70	124	
	Chloroform	20	17.9	ug/L	90			79	113	
	1,1,1-Trichloroethane	20	18.6	ug/L	93			80	108	
	Methylcyclohexane	20	20.9	ug/L	104			72	115	
	Benzene	20	19.4	ug/L	97			82	109	
	1,2-Dichloroethane	20	18.3	ug/L	92			80	115	
	Trichloroethene	20	18.8	ug/L	94			77	113	
	1,2-Dichloropropane	20	19.3	ug/L	97			83	111	
	Bromodichloromethane	20	18.3	ug/L	92			83	110	
	4-Methyl-2-Pentanone	100	92.0	ug/L	92			74	118	
	Toluene	20	19.2	ug/L	96			82	110	
	t-1,3-Dichloropropene	20	18.7	ug/L	94			79	110	
	cis-1,3-Dichloropropene	20	18.7	ug/L	94			82	110	
	1,1,2-Trichloroethane	20	18.7	ug/L	94			83	112	
	2-Hexanone	100	91.6	ug/L	92			73	117	
	Dibromochloromethane	20	18.8	ug/L	94			82	110	
	1,2-Dibromoethane	20	17.4	ug/L	87			81	110	
	Tetrachloroethene	20	18.3	ug/L	92			67	123	
	Chlorobenzene	20	18.6	ug/L	93			82	109	
	Ethyl Benzene	20	18.1	ug/L	91			83	109	
	m/p-Xylenes	40	39.5	ug/L	99			82	110	
	o-Xylene	20	18.4	ug/L	92			83	109	
	Styrene	20	19.3	ug/L	97			80	111	
	Bromoform	20	18.2	ug/L	91			79	109	
	Isopropylbenzene	20	19.5	ug/L	98			83	112	
	1,1,2,2-Tetrachloroethane	20	18.5	ug/L	93			76	118	
	1,2,4-Trimethylbenzene	20	20.1	ug/L	101			85	111	
	1,3-Dichlorobenzene	20	19.1	ug/L	96			82	108	
	1,4-Dichlorobenzene	20	18.0	ug/L	90			82	107	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.:	<u>Q2664</u>	Analytical Method:	<u>SW8260-Low</u>
Client:	<u>G Environmental</u>	Datafile :	<u>VN087371.D</u>

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VN0721WBS01	1,2-Dichlorobenzene	20	19.3	ug/L	97			82	109	
	1,2-Dibromo-3-Chloropropane	20	16.3	ug/L	81			68	112	
	1,2,4-Trichlorobenzene	20	19.3	ug/L	97			75	113	
	1,2,3-Trichlorobenzene	20	19.0	ug/L	95			76	114	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.:	<u>Q2664</u>	Analytical Method:	<u>SW8260-Low</u>
Client:	<u>G Environmental</u>	Datafile :	<u>VN087372.D</u>

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VN0721WBSD01	Dichlorodifluoromethane	20	22.4	ug/L	112	2		69	116	19
	Chloromethane	20	18.8	ug/L	94	0		65	116	21
	Vinyl chloride	20	19.0	ug/L	95	0		65	117	19
	Bromomethane	20	19.8	ug/L	99	3		58	125	20
	Chloroethane	20	18.5	ug/L	93	2		56	128	20
	Trichlorofluoromethane	20	19.7	ug/L	99	3		73	115	16
	1,1,2-Trichlorotrifluoroethane	20	19.6	ug/L	98	4		80	112	15
	1,1-Dichloroethene	20	17.6	ug/L	88	3		74	110	20
	Acrolein	100	87.1	ug/L	87	4		28	144	30
	Carbon disulfide	20	18.6	ug/L	93	1		64	112	20
	Methyl tert-butyl Ether	20	18.0	ug/L	90	5		78	114	20
	Methyl Acetate	20	18.3	ug/L	92	4		67	125	20
	Methylene Chloride	20	17.7	ug/L	89	3		72	114	20
	trans-1,2-Dichloroethene	20	17.9	ug/L	90	1		75	108	16
	1,1-Dichloroethane	20	18.2	ug/L	91	3		78	112	20
	Cyclohexane	20	19.8	ug/L	99	2		75	110	20
	2-Butanone	100	88.2	ug/L	88	2		65	122	26
	Carbon Tetrachloride	20	19.8	ug/L	99	1		77	113	15
	cis-1,2-Dichloroethene	20	18.4	ug/L	92	2		77	110	20
	Bromochloromethane	20	18.6	ug/L	93	4		70	124	20
	Chloroform	20	18.4	ug/L	92	2		79	113	20
	1,1,1-Trichloroethane	20	18.9	ug/L	95	2		80	108	20
	Methylcyclohexane	20	20.9	ug/L	104	0		72	115	20
	Benzene	20	19.2	ug/L	96	1		82	109	15
	1,2-Dichloroethane	20	18.8	ug/L	94	2		80	115	20
	Trichloroethene	20	18.8	ug/L	94	0		77	113	15
	1,2-Dichloropropane	20	19.3	ug/L	97	0		83	111	16
	Bromodichloromethane	20	18.8	ug/L	94	2		83	110	16
	4-Methyl-2-Pentanone	100	94.0	ug/L	94	2		74	118	25
	Toluene	20	19.5	ug/L	98	2		82	110	16
	t-1,3-Dichloropropene	20	18.6	ug/L	93	1		79	110	20
	cis-1,3-Dichloropropene	20	19.4	ug/L	97	3		82	110	16
	1,1,2-Trichloroethane	20	19.6	ug/L	98	4		83	112	20
	2-Hexanone	100	93.7	ug/L	94	2		73	117	25
	Dibromochloromethane	20	18.4	ug/L	92	2		82	110	20
	1,2-Dibromoethane	20	18.9	ug/L	95	9		81	110	20
	Tetrachloroethene	20	19.3	ug/L	97	5		67	123	15
	Chlorobenzene	20	18.6	ug/L	93	0		82	109	15
	Ethyl Benzene	20	18.7	ug/L	94	3		83	109	16
	m/p-Xylenes	40	38.8	ug/L	97	2		82	110	15
	o-Xylene	20	18.8	ug/L	94	2		83	109	20
	Styrene	20	19.4	ug/L	97	0		80	111	17
	Bromoform	20	18.8	ug/L	94	3		79	109	20
	Isopropylbenzene	20	19.3	ug/L	97	1		83	112	29
	1,1,2,2-Tetrachloroethane	20	19.0	ug/L	95	2		76	118	20
	1,2,4-Trimethylbenzene	20	19.9	ug/L	100	1		85	111	20
	1,3-Dichlorobenzene	20	19.3	ug/L	97	1		82	108	20
	1,4-Dichlorobenzene	20	18.4	ug/L	92	2		82	107	15

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.:	<u>Q2664</u>	Analytical Method:	<u>SW8260-Low</u>
Client:	<u>G Environmental</u>	Datafile :	<u>VN087372.D</u>

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VN0721WBSD01	1,2-Dichlorobenzene	20	19.7	ug/L	99	2		82	109	20
	1,2-Dibromo-3-Chloropropane	20	16.6	ug/L	83	2		68	112	20
	1,2,4-Trichlorobenzene	20	18.5	ug/L	93	4		75	113	29
	1,2,3-Trichlorobenzene	20	18.4	ug/L	92	3		76	114	29

VOLATILE METHOD BLANK SUMMARY

Client ID

VN0721WBL01

Lab Name: Alliance

Contract: GENV01

Lab Code: ACE

SDG NO.: Q2664

Lab File ID: VN087370.D

Lab Sample ID: VN0721WBL01

Date Analyzed: 07/21/2025

Time Analyzed: 11:34

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

Heated Purge: (Y/N) N

Instrument ID: MSVOA_N

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
VN0721WBS01	VN0721WBS01	VN087371.D	07/21/2025
VN0721WBSD01	VN0721WBSD01	VN087372.D	07/21/2025
GDW3	Q2664-01	VN087386.D	07/21/2025

COMMENTS: _____



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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Alliance

Contract: GENV01

Lab Code: ACE

SDG NO.: Q2664

Lab File ID: VN087327.D

BFB Injection Date: 07/16/2025

Instrument ID: MSVOA_N

BFB Injection Time: 16:10

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

Heated Purge: Y/N N

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

1-Value is % mass 174

2-Value is % mass 176

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

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



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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Alliance

Contract: GENV01

Lab Code: ACE

SDG NO.: Q2664

Lab File ID: VN087367.D

BFB Injection Date: 07/21/2025

Instrument ID: MSVOA_N

BFB Injection Time: 10:05

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

Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	21.1
75	30.0 - 60.0% of mass 95	52.1
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	7.4
173	Less than 2.0% of mass 174	1.5 (1.9) 1
174	50.0 - 100.0% of mass 95	75.2
175	5.0 - 9.0% of mass 174	6 (8) 1
176	95.0 - 101.0% of mass 174	72.4 (96.3) 1
177	5.0 - 9.0% of mass 176	5 (6.9) 2

1-Value is % mass 174

2-Value is % mass 176

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

CLIENT ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC050	VSTDCCC050	VN087368.D	07/21/2025	10:38
VN0721WBL01	VN0721WBL01	VN087370.D	07/21/2025	11:34
VN0721WBS01	VN0721WBS01	VN087371.D	07/21/2025	11:55
VN0721WBSD01	VN0721WBSD01	VN087372.D	07/21/2025	12:30
GDW3	Q2664-01	VN087386.D	07/21/2025	17:29

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance Contract: GENV01
 Lab Code: ACE SDG NO.: Q2664
 Lab File ID: VN087368.D Date Analyzed: 07/21/2025
 Instrument ID: MSVOA_N Time Analyzed: 10:38
 GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	202357	8.21	342303	9.08	307825	11.85
UPPER LIMIT	404714	8.706	684606	9.583	615650	12.347
LOWER LIMIT	101179	7.706	171152	8.583	153913	11.347
EPA SAMPLE NO.						
GDW3	203374	8.21	426252	9.08	398998	11.85
VN0721WBL01	164239	8.21	328305	9.08	300772	11.85
VN0721WBS01	195078	8.21	337215	9.09	308523	11.85
VN0721WBSD01	190787	8.21	328848	9.08	296338	11.85

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

AREA UPPER LIMIT = +100% of internal standard area
 AREA LOWER LIMIT = -50% of internal standard area
 RT UPPER LIMIT = +0.50 minutes of internal standard RT
 RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
 * Values outside of QC limits.

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance Contract: GENV01
 Lab Code: ACE SDG NO.: Q2664
 Lab File ID: VN087368.D Date Analyzed: 07/21/2025
 Instrument ID: MSVOA_N Time Analyzed: 10:38
 GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

	IS4 AREA #	RT #				
12 HOUR STD	162263	13.77				
UPPER LIMIT	324526	14.27				
LOWER LIMIT	81131.5	13.27				
EPA SAMPLE NO.						
GDW3	197398	13.77				
VN0721WBL01	133337	13.77				
VN0721WBS01	161452	13.77				
VN0721WBSD01	158557	13.77				

IS4 = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
 AREA LOWER LIMIT = -50% of internal standard area
 RT UPPER LIMIT = +0.50 minutes of internal standard RT
 RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
 * Values outside of QC limits.



SAMPLE DATA

Report of Analysis

Client:	G Environmental		Date Collected:	07/21/25	
Project:	Nelson		Date Received:	07/21/25	
Client Sample ID:	GDW3		SDG No.:	Q2664	
Lab Sample ID:	Q2664-01		Matrix:	Water	
Analytical Method:	8260D		% Solid:	0	
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000	uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group1	
GC Column:	RXI-624	ID : 0.25	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VN087386.D	1	07/21/25 17:29	VN072125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	0.22	U	0.22	1.00	ug/L
74-87-3	Chloromethane	0.32	U	0.32	1.00	ug/L
75-01-4	Vinyl Chloride	0.26	U	0.26	1.00	ug/L
74-83-9	Bromomethane	1.40	U	1.40	5.00	ug/L
75-00-3	Chloroethane	0.47	U	0.47	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.33	U	0.33	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.25	U	0.25	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.23	U	0.23	1.00	ug/L
107-02-8	Acrolein	7.10	U	7.10	25.0	ug/L
75-15-0	Carbon Disulfide	0.21	U	0.21	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.16	U	0.16	1.00	ug/L
79-20-9	Methyl Acetate	0.27	U	0.27	1.00	ug/L
75-09-2	Methylene Chloride	0.28	U	0.28	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.23	U	0.23	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.23	U	0.23	1.00	ug/L
110-82-7	Cyclohexane	1.50	U	1.50	5.00	ug/L
78-93-3	2-Butanone	3.00	J	0.98	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.25	U	0.25	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.19	U	0.19	1.00	ug/L
74-97-5	Bromochloromethane	0.22	U	0.22	1.00	ug/L
67-66-3	Chloroform	0.25	U	0.25	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.20	U	0.20	1.00	ug/L
108-87-2	Methylcyclohexane	0.16	U	0.16	1.00	ug/L
71-43-2	Benzene	2.10		0.15	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.22	U	0.22	1.00	ug/L
79-01-6	Trichloroethene	0.090	U	0.090	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.20	U	0.20	1.00	ug/L
75-27-4	Bromodichloromethane	0.22	U	0.22	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	0.68	U	0.68	5.00	ug/L
108-88-3	Toluene	21.1		0.14	1.00	ug/L

Report of Analysis

Client:	G Environmental		Date Collected:	07/21/25	
Project:	Nelson		Date Received:	07/21/25	
Client Sample ID:	GDW3		SDG No.:	Q2664	
Lab Sample ID:	Q2664-01		Matrix:	Water	
Analytical Method:	8260D		% Solid:	0	
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000	uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group1	
GC Column:	RXI-624	ID : 0.25	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VN087386.D	1	07/21/25 17:29	VN072125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	0.17	U	0.17	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.16	U	0.16	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.21	U	0.21	1.00	ug/L
591-78-6	2-Hexanone	0.89	U	0.89	5.00	ug/L
124-48-1	Dibromochloromethane	0.18	U	0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	0.15	U	0.15	1.00	ug/L
127-18-4	Tetrachloroethene	0.23	U	0.23	1.00	ug/L
108-90-7	Chlorobenzene	0.12	U	0.12	1.00	ug/L
100-41-4	Ethyl Benzene	1.80		0.13	1.00	ug/L
179601-23-1	m/p-Xylenes	3.70		0.24	2.00	ug/L
95-47-6	o-Xylene	2.00		0.12	1.00	ug/L
100-42-5	Styrene	0.15	U	0.15	1.00	ug/L
75-25-2	Bromoform	0.19	U	0.19	1.00	ug/L
98-82-8	Isopropylbenzene	0.12	U	0.12	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.26	U	0.26	1.00	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.41	J	0.14	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.16	U	0.16	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.19	U	0.19	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.16	U	0.16	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.53	U	0.53	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.20	U	0.20	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.20	U	0.20	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	56.2		74 - 125	112%	SPK: 50
1868-53-7	Dibromofluoromethane	49.9		75 - 124	100%	SPK: 50
2037-26-5	Toluene-d8	51.5		86 - 113	103%	SPK: 50
460-00-4	4-Bromofluorobenzene	50.5		77 - 121	101%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	203000	8.206			
540-36-3	1,4-Difluorobenzene	426000	9.083			
3114-55-4	Chlorobenzene-d5	399000	11.847			
3855-82-1	1,4-Dichlorobenzene-d4	197000	13.771			

Report of Analysis

Client:	G Environmental	Date Collected:	07/21/25
Project:	Nelson	Date Received:	07/21/25
Client Sample ID:	GDW3	SDG No.:	Q2664
Lab Sample ID:	Q2664-01	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5	Units:	mL
Soil Aliquot Vol:			uL
GC Column:	RXI-624	ID :	0.25
Prep Method :		Level :	LOW
		Final Vol:	5000 uL
		Test:	VOCMS Group1

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VN087386.D	1	07/21/25 17:29	VN072125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TENTATIVE IDENTIFIED COMPOUNDS						
67-64-1	Acetone	6.40	J		4.44	ug/L

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\VN072125\
 Data File : VN087386.D
 Acq On : 21 Jul 2025 17:29
 Operator : JC\MD
 Sample : Q2664-01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 GDW3

Quant Time: Jul 22 03:11:37 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N071625W.M
 Quant Title : SW846 8260
 QLast Update : Thu Jul 17 02:56:13 2025
 Response via : Initial Calibration

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

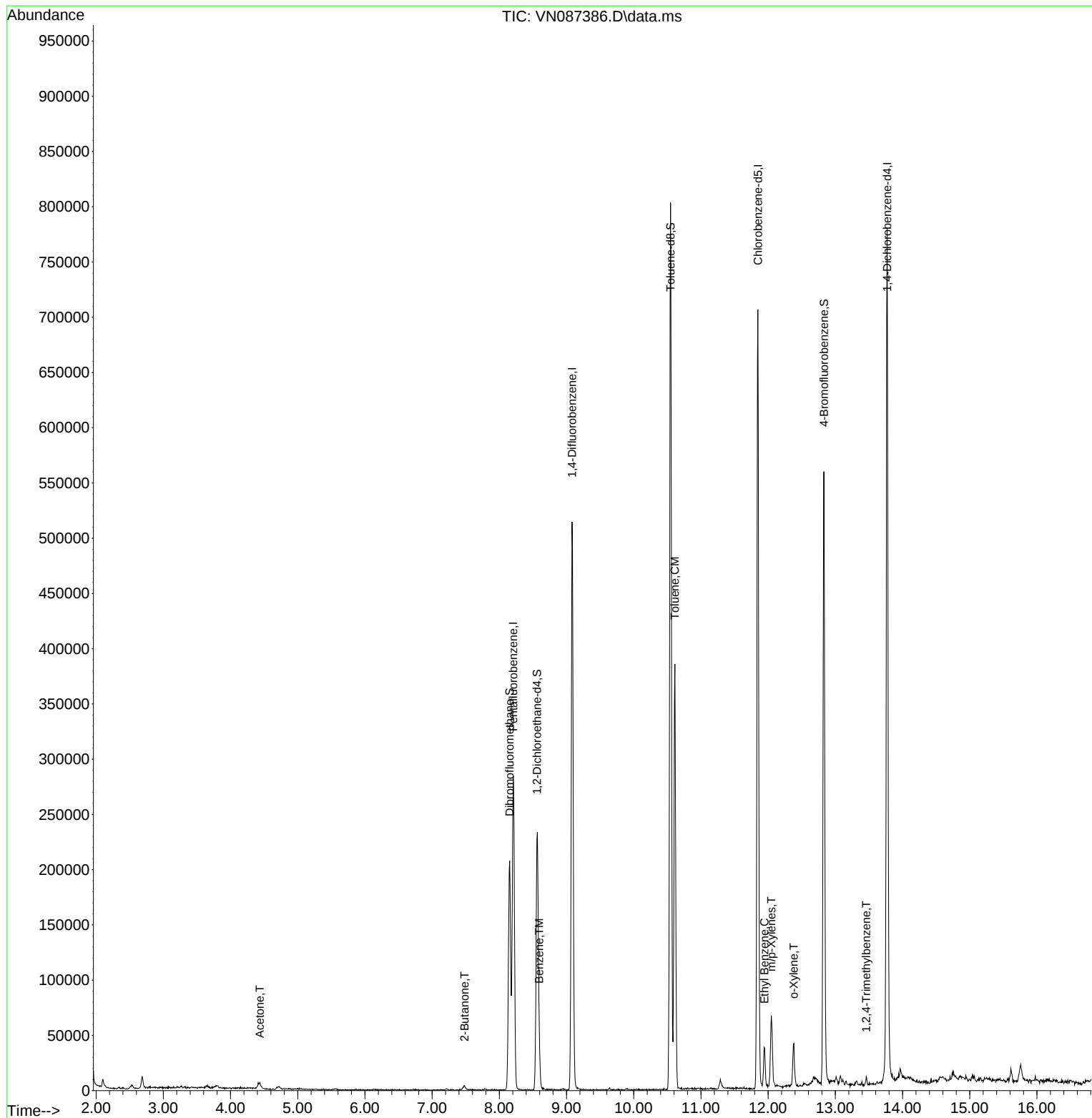
Internal Standards						
1) Pentafluorobenzene	8.206	168	203374	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.083	114	426252	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.847	117	398998	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.771	152	197398	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.559	65	193801	56.161	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 112.320%			
35) Dibromofluoromethane	8.154	113	146796	49.926	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 99.860%			
50) Toluene-d8	10.547	98	539733	51.460	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 102.920%			
62) 4-Bromofluorobenzene	12.830	95	195684	50.500	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 101.000%			
Target Compounds					Qvalue	
16) Acetone	4.436	43	10329	6.384	ug/l	100
25) 2-Butanone	7.483	43	7512	3.005	ug/l #	88
40) Benzene	8.595	78	25936	2.066	ug/l	92
52) Toluene	10.612	92	160814	21.073	ug/l	95
67) Ethyl Benzene	11.947	91	26150	1.773	ug/l	100
68) m/p-Xylenes	12.047	106	20628	3.736	ug/l	98
69) o-Xylene	12.383	106	10584	2.007	ug/l	95
84) 1,2,4-Trimethylbenzene	13.459	105	4473	0.414	ug/l	96

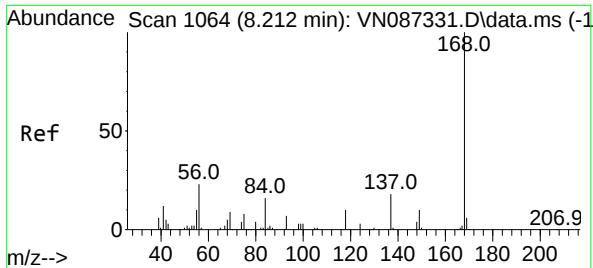
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN072125\
Data File : VN087386.D
Acq On : 21 Jul 2025 17:29
Operator : JC\MD
Sample : Q2664-01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
GDW3

Quant Time: Jul 22 03:11:37 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N071625W.M
Quant Title : SW846 8260
QLast Update : Thu Jul 17 02:56:13 2025
Response via : Initial Calibration

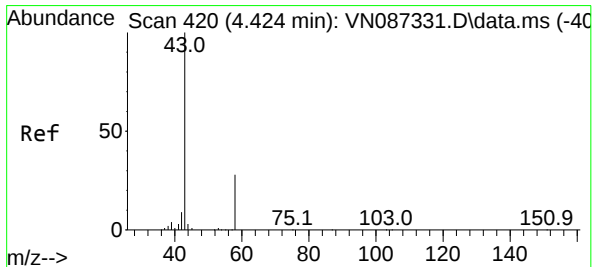
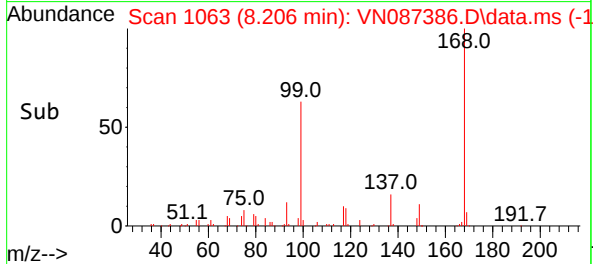
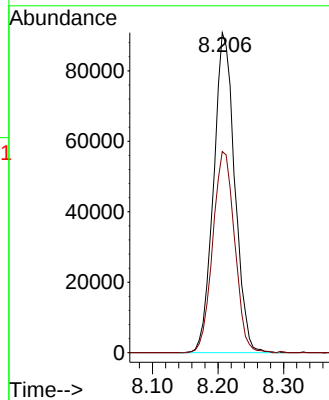
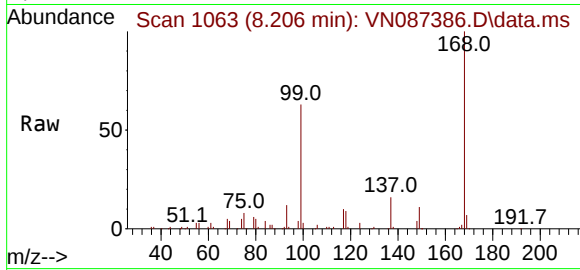




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.206 min Scan# 1063
Delta R.T. -0.006 min
Lab File: VN087386.D
Acq: 21 Jul 2025 17:29

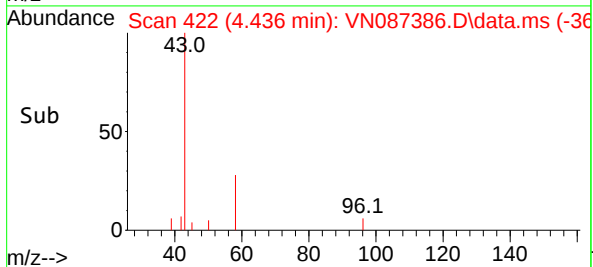
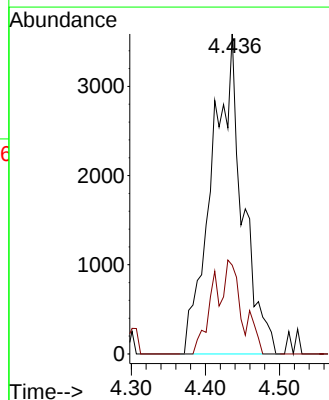
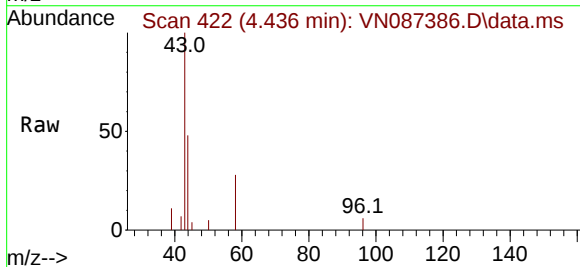
Instrument :
MSVOA_N
ClientSampleId :
GDW3

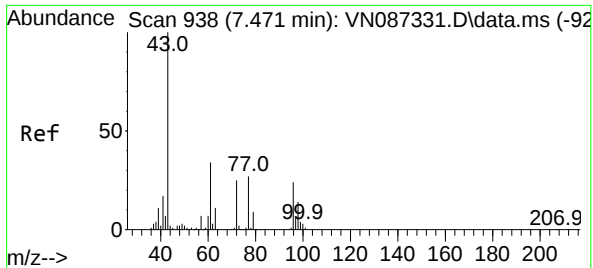
Tgt Ion:168 Resp: 203374
Ion Ratio Lower Upper
168 100
99 62.9 47.9 71.9



#16
Acetone
Concen: 6.384 ug/l
RT: 4.436 min Scan# 422
Delta R.T. 0.012 min
Lab File: VN087386.D
Acq: 21 Jul 2025 17:29

Tgt Ion: 43 Resp: 10329
Ion Ratio Lower Upper
43 100
58 27.8 22.3 33.5

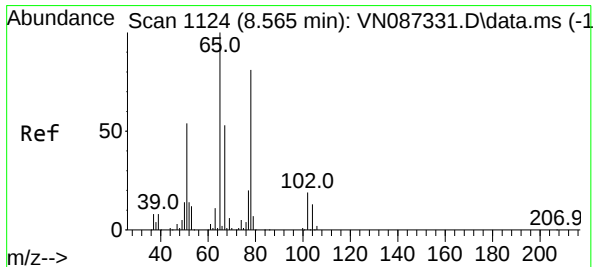
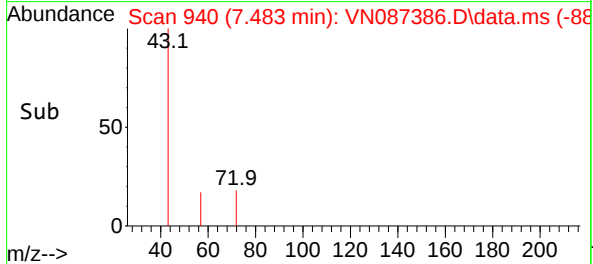
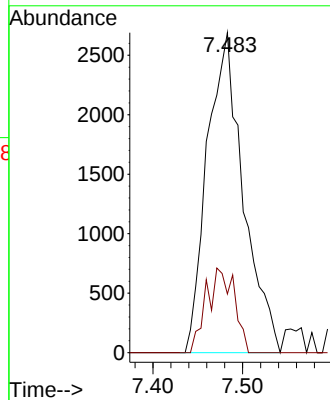
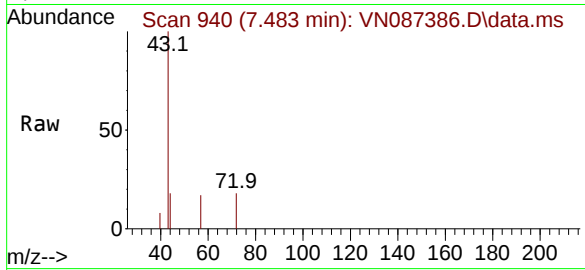




#25
2-Butanone
Concen: 3.005 ug/l
RT: 7.483 min Scan# 940
Delta R.T. 0.012 min
Lab File: VN087386.D
Acq: 21 Jul 2025 17:29

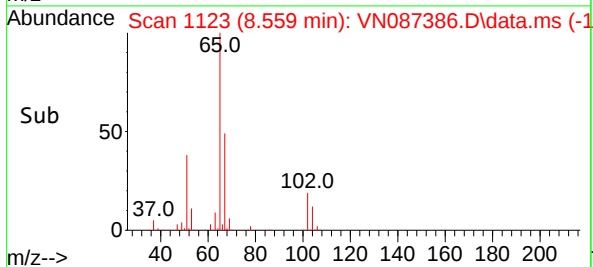
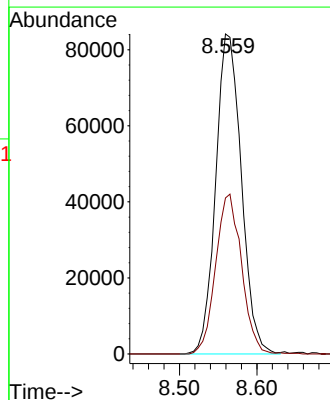
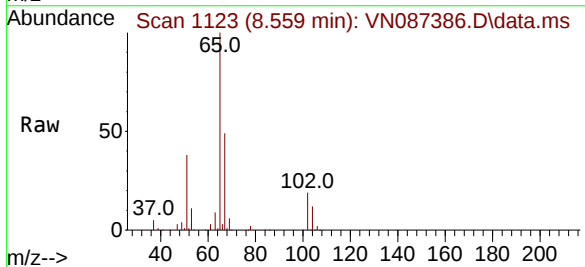
Instrument :
MSVOA_N
ClientSampleId :
GDW3

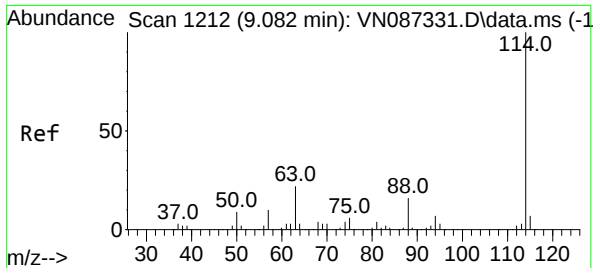
Tgt Ion: 43 Resp: 7512
Ion Ratio Lower Upper
43 100
72 18.4 19.6 29.4#



#33
1,2-Dichloroethane-d4
Concen: 56.161 ug/l
RT: 8.559 min Scan# 1123
Delta R.T. -0.005 min
Lab File: VN087386.D
Acq: 21 Jul 2025 17:29

Tgt Ion: 65 Resp: 193801
Ion Ratio Lower Upper
65 100
67 50.5 0.0 104.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.083 min Scan# 11

Delta R.T. 0.001 min

Lab File: VN087386.D

Acq: 21 Jul 2025 17:29

Instrument :

MSVOA_N

ClientSampleId :

GDW3

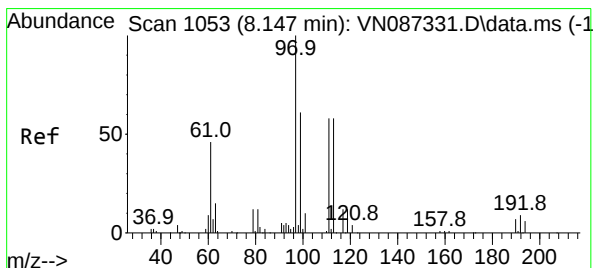
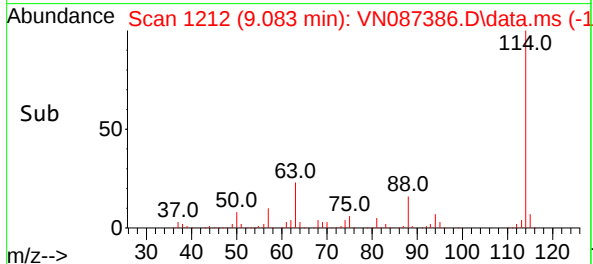
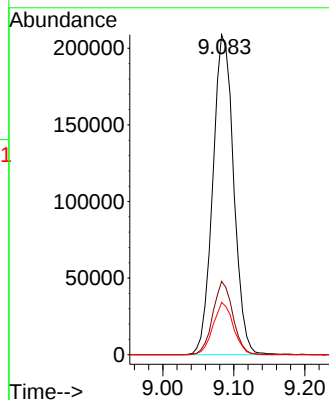
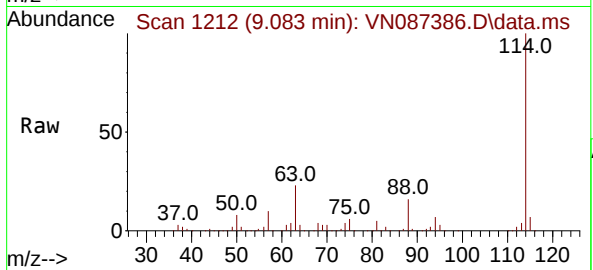
Tgt Ion:114 Resp: 426252

Ion Ratio Lower Upper

114 100

63 22.9 0.0 44.6

88 16.4 0.0 32.8



#35

Dibromofluoromethane

Concen: 49.926 ug/l

RT: 8.154 min Scan# 1054

Delta R.T. 0.006 min

Lab File: VN087386.D

Acq: 21 Jul 2025 17:29

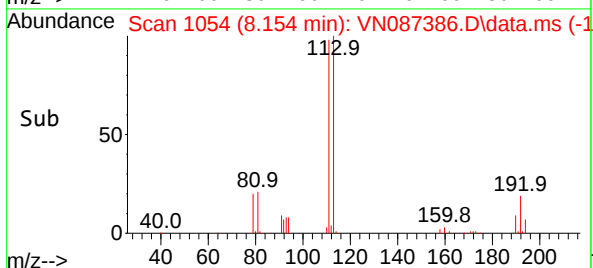
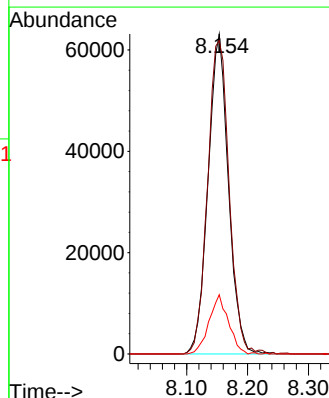
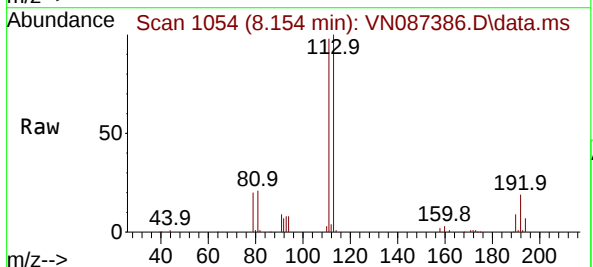
Tgt Ion:113 Resp: 146796

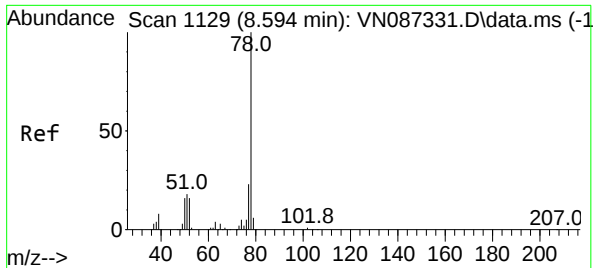
Ion Ratio Lower Upper

113 100

111 103.6 82.5 123.7

192 17.7 13.7 20.5

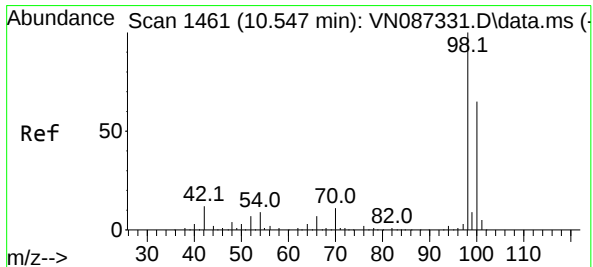
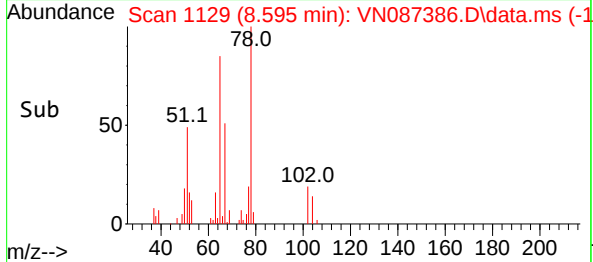
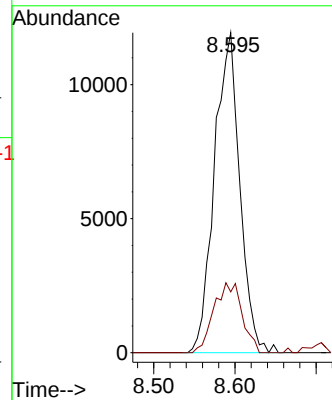
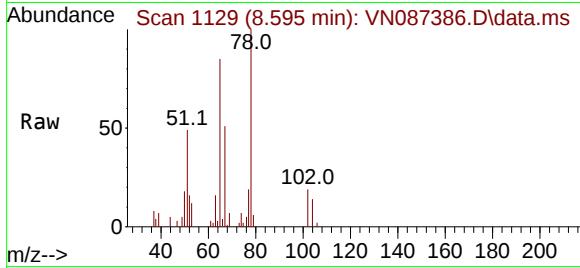




#40
Benzene
Concen: 2.066 ug/l
RT: 8.595 min Scan# 1129
Delta R.T. 0.001 min
Lab File: VN087386.D
Acq: 21 Jul 2025 17:29

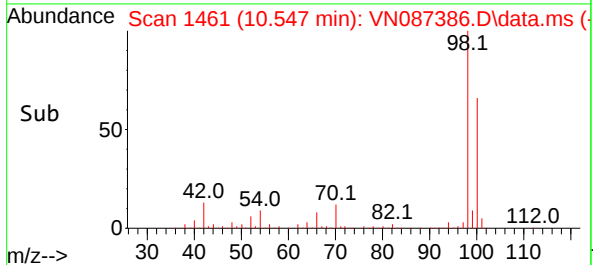
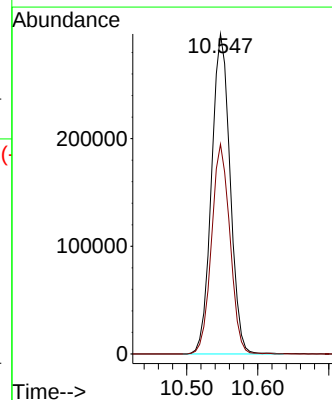
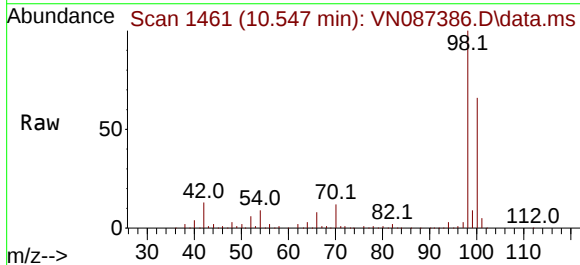
Instrument :
MSVOA_N
ClientSampleId :
GDW3

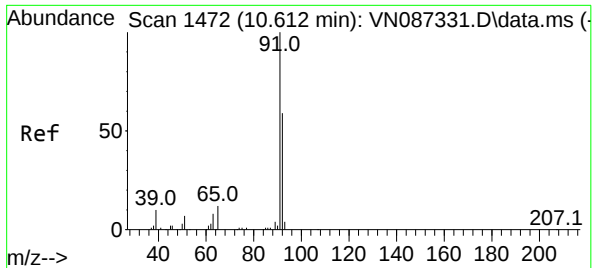
Tgt Ion: 78 Resp: 25936
Ion Ratio Lower Upper
78 100
77 19.0 18.2 27.2



#50
Toluene-d8
Concen: 51.460 ug/l
RT: 10.547 min Scan# 1461
Delta R.T. 0.000 min
Lab File: VN087386.D
Acq: 21 Jul 2025 17:29

Tgt Ion: 98 Resp: 539733
Ion Ratio Lower Upper
98 100
100 64.9 52.1 78.1

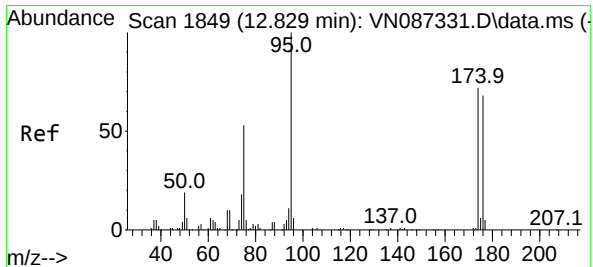
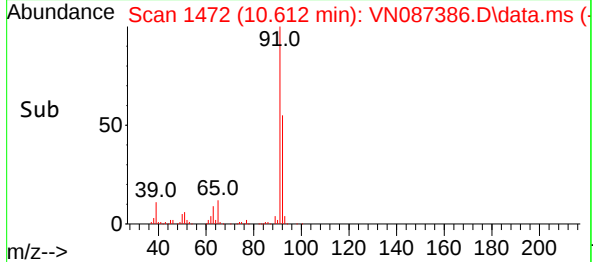
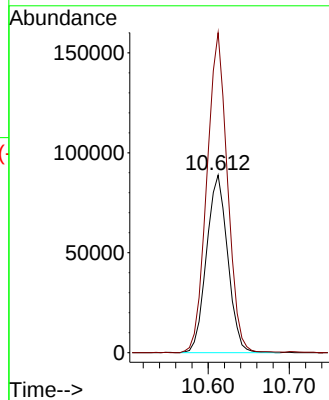
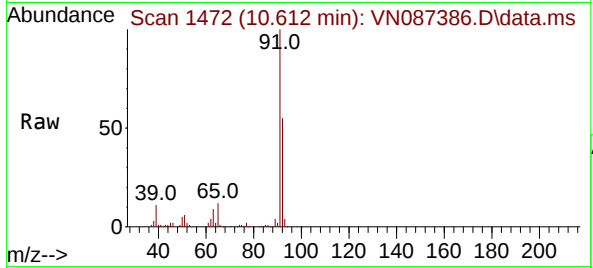




#52
Toluene
Concen: 21.073 ug/l
RT: 10.612 min Scan# 1472
Delta R.T. 0.000 min
Lab File: VN087386.D
Acq: 21 Jul 2025 17:29

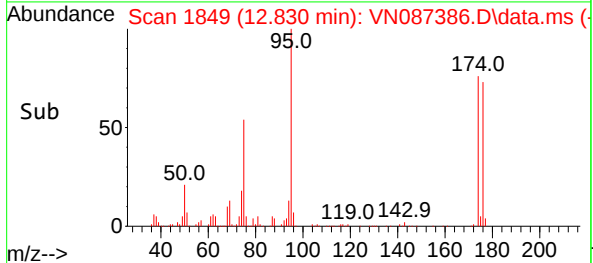
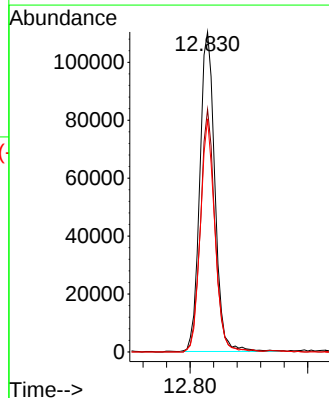
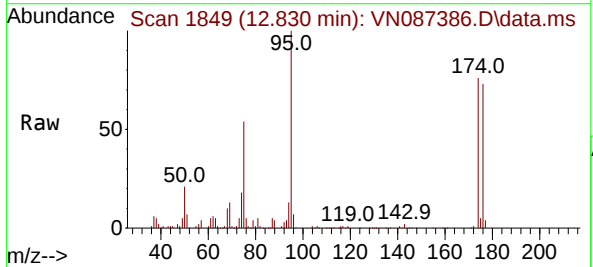
Instrument :
MSVOA_N
ClientSampleId :
GDW3

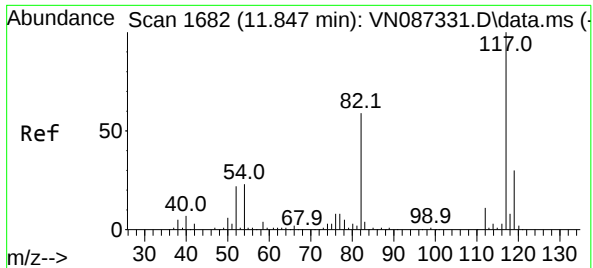
Tgt Ion: 92 Resp: 160814
Ion Ratio Lower Upper
92 100
91 175.2 135.1 202.7



#62
4-Bromofluorobenzene
Concen: 50.500 ug/l
RT: 12.830 min Scan# 1849
Delta R.T. 0.001 min
Lab File: VN087386.D
Acq: 21 Jul 2025 17:29

Tgt Ion: 95 Resp: 195684
Ion Ratio Lower Upper
95 100
174 73.4 0.0 149.4
176 70.0 0.0 141.2

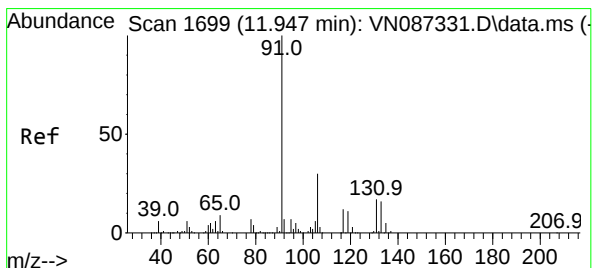
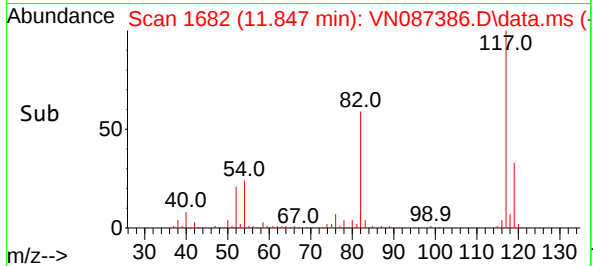
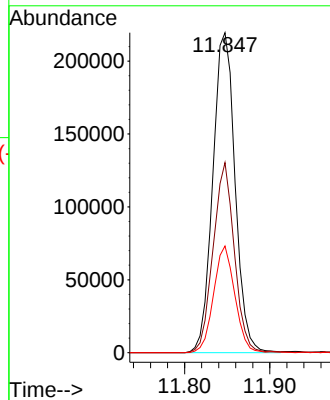
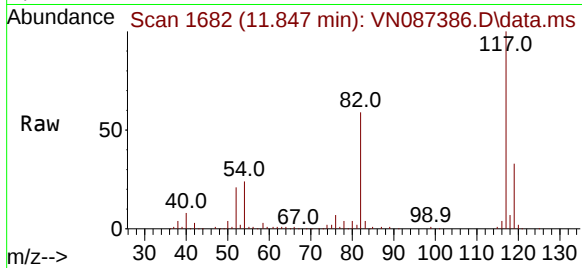




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.847 min Scan# 1682
Delta R.T. 0.000 min
Lab File: VN087386.D
Acq: 21 Jul 2025 17:29

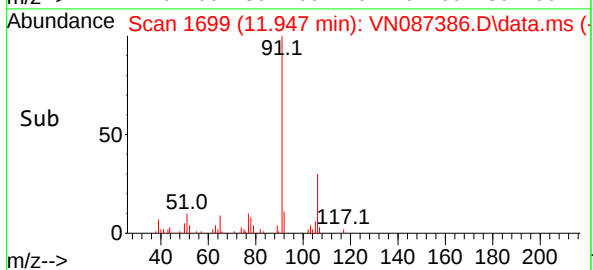
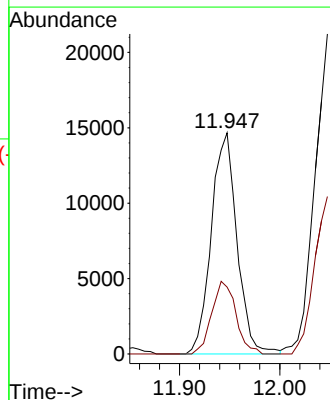
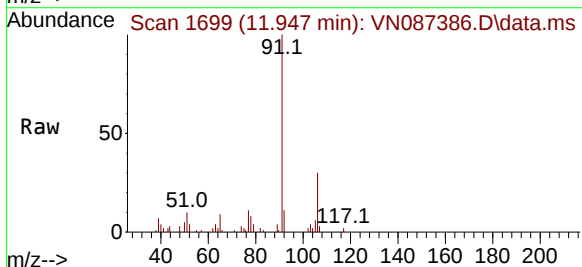
Instrument :
MSVOA_N
ClientSampleId :
GDW3

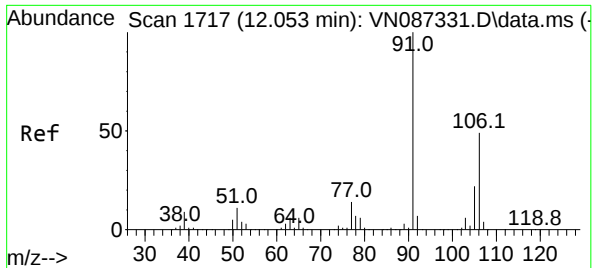
Tgt Ion:117 Resp: 398998
Ion Ratio Lower Upper
117 100
82 59.4 47.4 71.2
119 33.4 23.8 35.8



#67
Ethyl Benzene
Concen: 1.773 ug/l
RT: 11.947 min Scan# 1699
Delta R.T. 0.001 min
Lab File: VN087386.D
Acq: 21 Jul 2025 17:29

Tgt Ion: 91 Resp: 26150
Ion Ratio Lower Upper
91 100
106 30.2 24.3 36.5

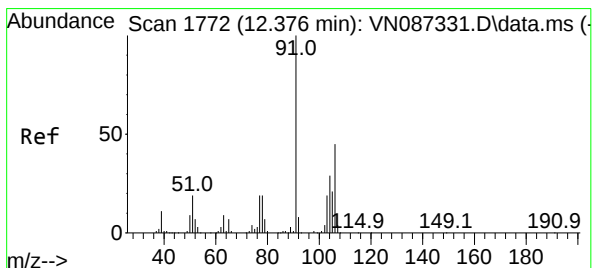
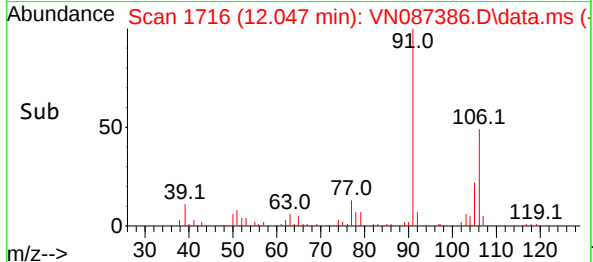
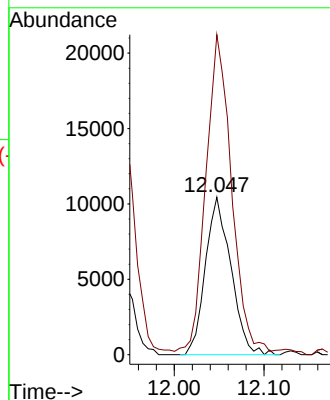
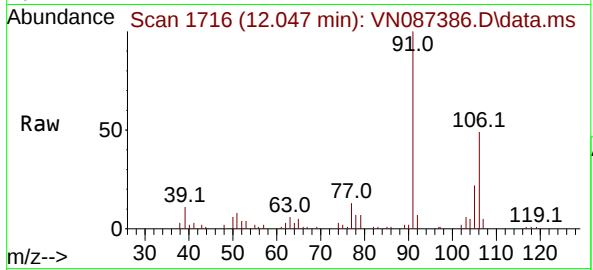




#68
m/p-Xylenes
Concen: 3.736 ug/l
RT: 12.047 min Scan# 1716
Delta R.T. -0.005 min
Lab File: VN087386.D
Acq: 21 Jul 2025 17:29

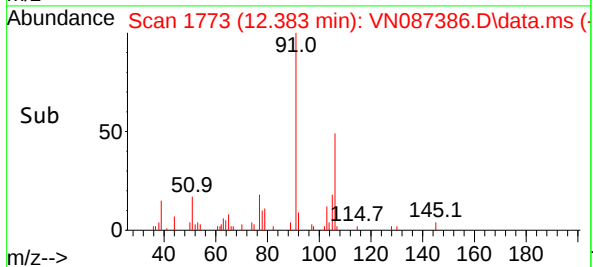
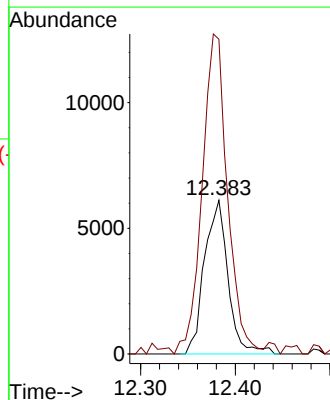
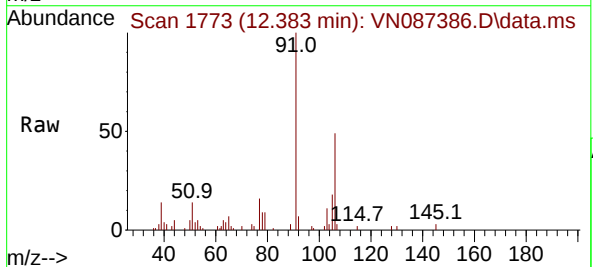
Instrument :
MSVOA_N
ClientSampleId :
GDW3

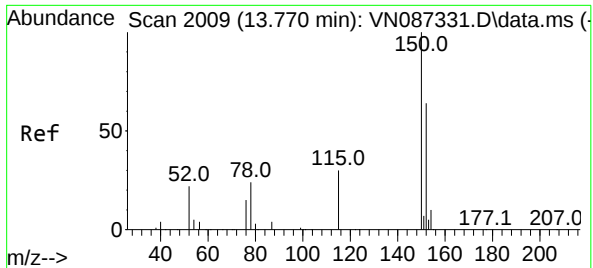
Tgt Ion:106 Resp: 20628
Ion Ratio Lower Upper
106 100
91 199.9 162.0 243.0



#69
o-Xylene
Concen: 2.007 ug/l
RT: 12.383 min Scan# 1773
Delta R.T. 0.006 min
Lab File: VN087386.D
Acq: 21 Jul 2025 17:29

Tgt Ion:106 Resp: 10584
Ion Ratio Lower Upper
106 100
91 223.5 107.7 323.3

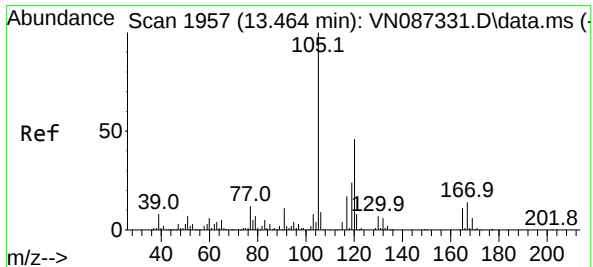
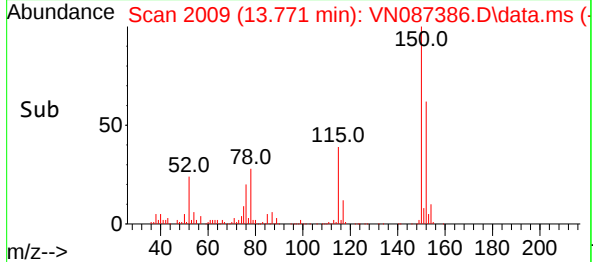
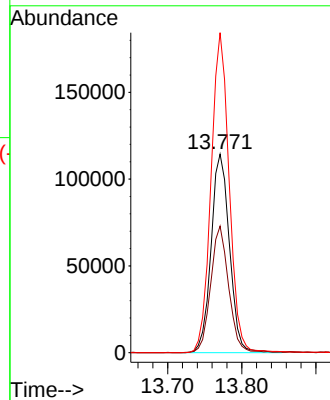
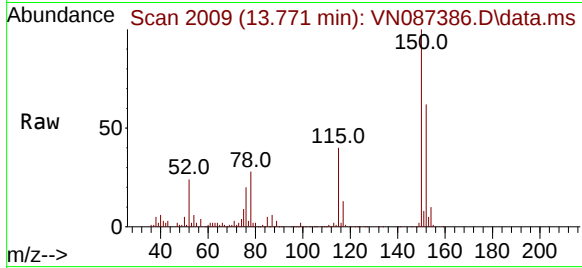




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.771 min Scan# 2009
Delta R.T. 0.001 min
Lab File: VN087386.D
Acq: 21 Jul 2025 17:29

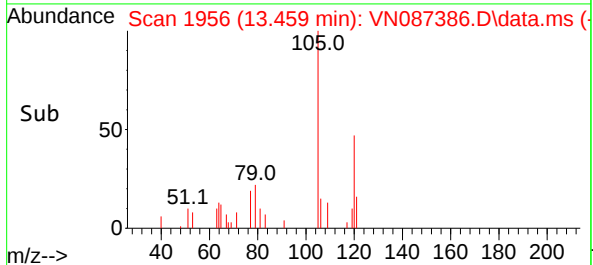
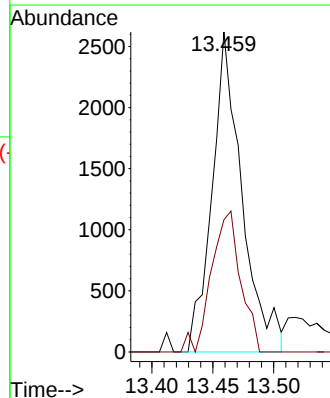
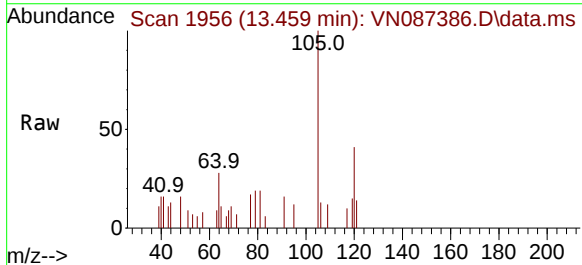
Instrument :
MSVOA_N
ClientSampleId :
GDW3

Tgt Ion	Ratio	Lower	Upper
152	100		
115	62.4	31.1	93.5
150	158.8	0.0	349.0



#84
1,2,4-Trimethylbenzene
Concen: 0.414 ug/l
RT: 13.459 min Scan# 1956
Delta R.T. -0.005 min
Lab File: VN087386.D
Acq: 21 Jul 2025 17:29

Tgt Ion	Ratio	Lower	Upper
105	100		
120	43.0	22.8	68.3



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN072125\
 Data File : VN087386.D
 Acq On : 21 Jul 2025 17:29
 Operator : JC\MD
 Sample : Q2664-01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 GDW3

Integration Parameters: RTEINT.P

Integrator: RTE

Smoothing : ON

Filtering: 5

Sampling : 1

Min Area: 3 % of largest Peak

Start Thrs: 0.2

Max Peaks: 100

Stop Thrs : 0

Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >

Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N071625W.M

Title : SW846 8260

Signal : TIC: VN087386.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.683	116	124	130	rBV2	10578	20835	1.42%	0.232%
2	8.154	1041	1054	1058	rBV	207591	482995	32.82%	5.380%
3	8.206	1058	1063	1077	rVB	284179	653869	44.44%	7.283%
4	8.565	1115	1124	1137	rBV3	233443	583722	39.67%	6.502%
5	9.083	1203	1212	1225	rBV	514091	1050810	71.41%	11.705%
6	10.547	1452	1461	1467	rBV	802985	1471444	100.00%	16.390%
7	10.612	1467	1472	1480	rVB	384029	683175	46.43%	7.610%
8	11.289	1580	1587	1599	rBV4	8784	22257	1.51%	0.248%
9	11.847	1673	1682	1693	rBV	705603	1272276	86.46%	14.171%
10	11.942	1693	1698	1705	rVB	35279	63530	4.32%	0.708%
11	12.047	1710	1716	1726	rVB2	64197	133492	9.07%	1.487%
12	12.383	1767	1773	1781	rVB2	38661	72723	4.94%	0.810%
13	12.830	1842	1849	1862	rBV	554820	968142	65.80%	10.784%
14	13.771	1995	2009	2026	rBV	773914	1431102	97.26%	15.940%
15	15.612	2317	2322	2329	rVB3	12690	23767	1.62%	0.265%
16	15.759	2338	2347	2354	rBV8	15796	43649	2.97%	0.486%

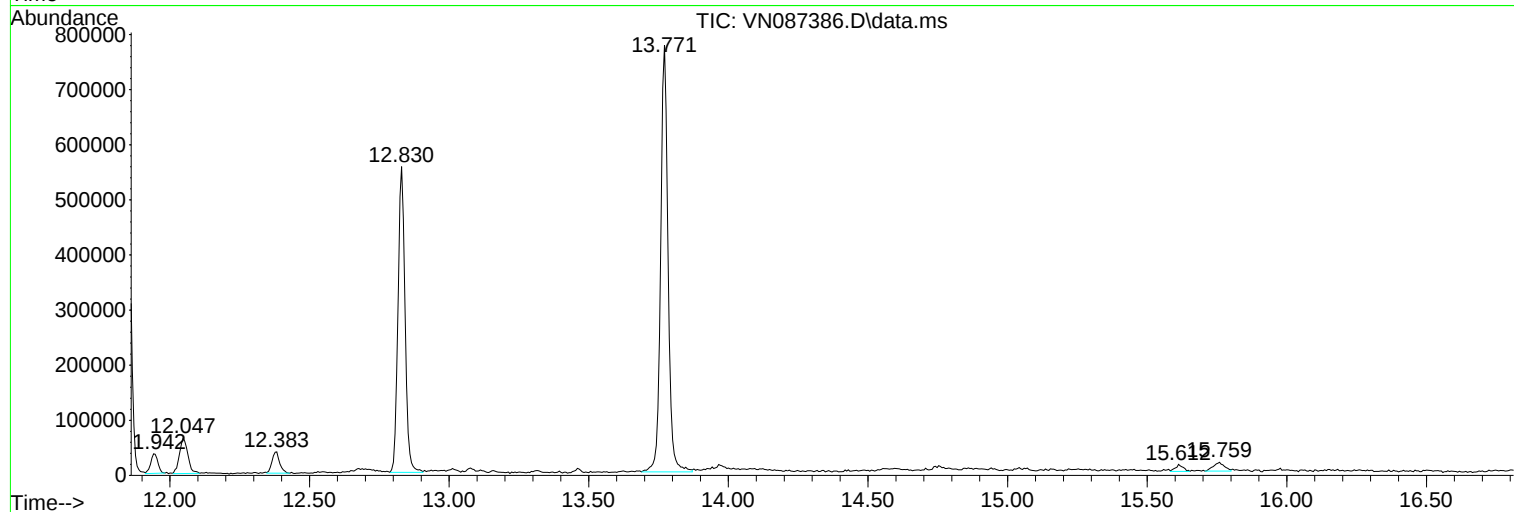
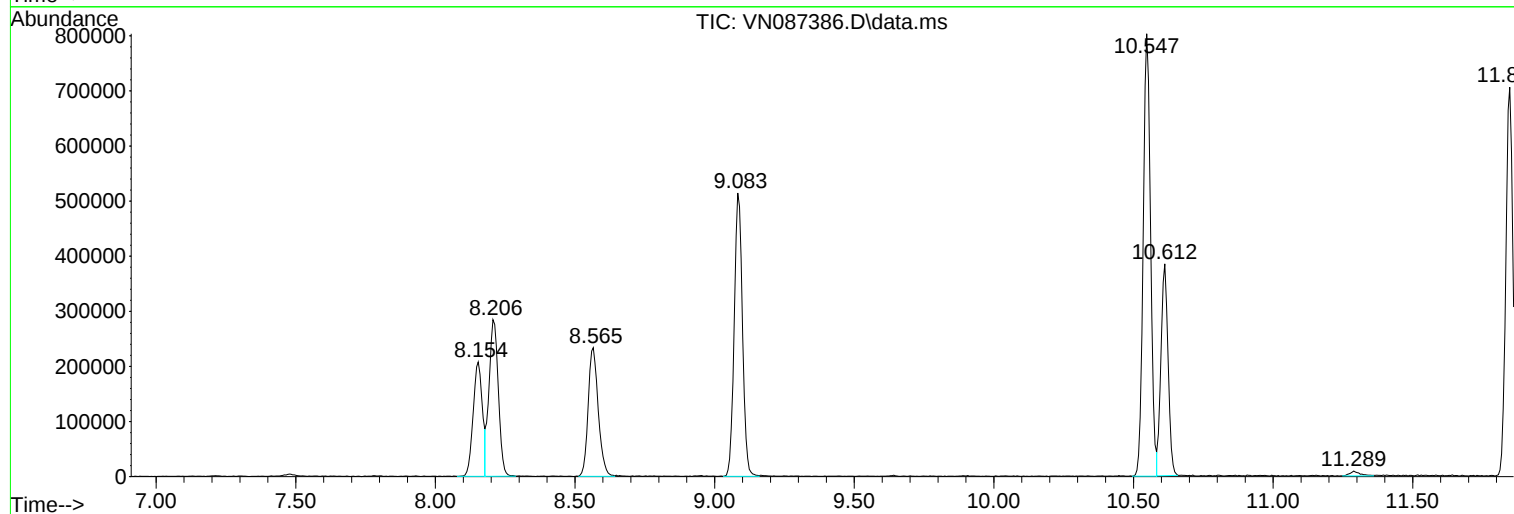
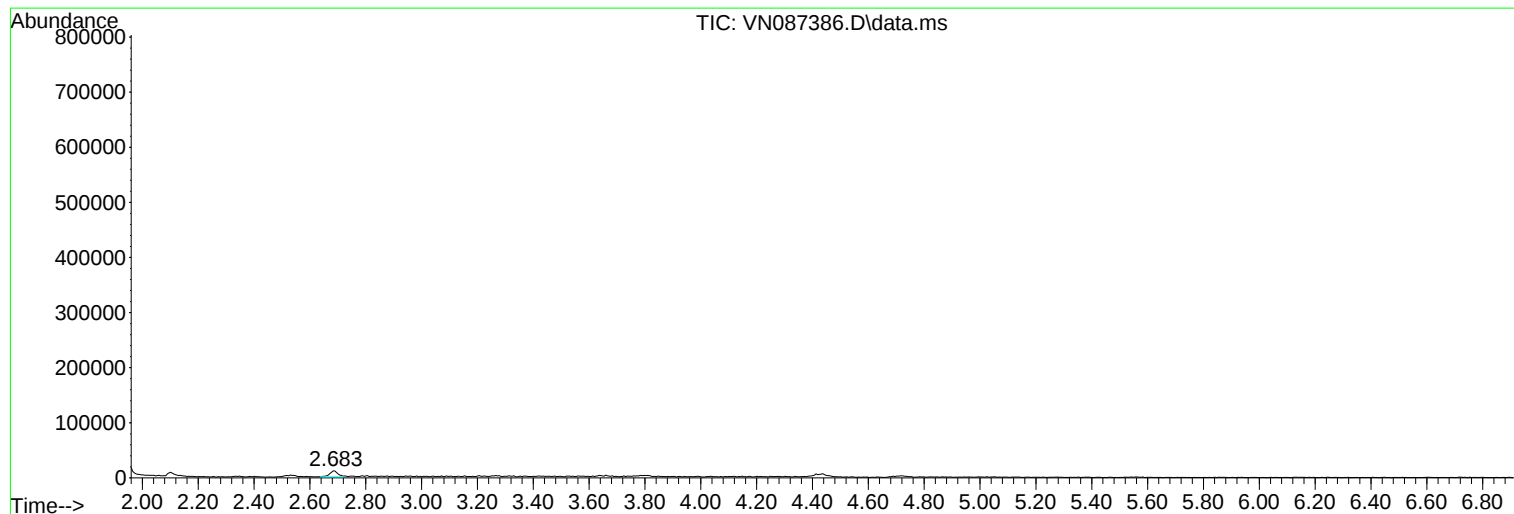
Sum of corrected areas: 8977788

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN072125\
Data File : VN087386.D
Acq On : 21 Jul 2025 17:29
Operator : JC\MD
Sample : Q2664-01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
GDW3

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N071625W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN072125\
Data File : VN087386.D
Acq On : 21 Jul 2025 17:29
Operator : JC\MD
Sample : Q2664-01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
GDW3

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N071625W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN072125\
Data File : VN087386.D
Acq On : 21 Jul 2025 17:29
Operator : JC\MD
Sample : Q2664-01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
GDW3

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N071625W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	--Internal Standard--			
					#	RT	Resp	Conc



CALIBRATION SUMMARY



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

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Alliance

Contract: GENV01

Lab Code: ACE

SDG No.: Q2664

Instrument ID: MSVOA_N

Calibration Date(s): 07/16/2025 07/16/2025

Heated Purge: (Y/N) N

Calibration Time(s): 17:05 18:54

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

LAB FILE ID:	RRF001 = VN087328.D			RRF005 = VN087329.D		RRF020 = VN087330.D		
	RRF050 = VN087331.D			RRF100 = VN087332.D		RRF150 = VN087333.D		
COMPOUND	RRF001	RRF005	RRF020	RRF050	RRF100	RRF150	RRF	% RSD
Dichlorodifluoromethane	0.447	0.443	0.443	0.623	0.606	0.625	0.531	18
Chloromethane	0.714	0.659	0.588	0.690	0.659	0.698	0.668	6.7
Vinyl Chloride	0.554	0.665	0.623	0.728	0.692	0.720	0.664	9.9
Bromomethane		0.328	0.308	0.355	0.356	0.370	0.344	7.2
Chloroethane	0.396	0.485	0.431	0.441	0.415	0.429	0.433	7
Trichlorofluoromethane	0.959	0.975	0.963	1.025	0.960	1.007	0.981	2.8
1,1,2-Trichlorotrifluoroethane	0.463	0.495	0.539	0.525	0.491	0.509	0.504	5.3
1,1-Dichloroethene	0.635	0.641	0.553	0.545	0.514	0.537	0.571	9.4
Acrolein		0.140	0.112	0.121	0.130	0.143	0.129	9.9
Carbon Disulfide	1.686	1.685	1.669	1.733	1.643	1.739	1.693	2.2
Methyl tert-butyl Ether	1.911	2.099	2.106	2.167	2.129	2.213	2.104	4.9
Methyl Acetate	1.007	1.052	0.991	0.991	0.962	0.993	0.999	3
Methylene Chloride	1.107	0.788	0.700	0.672	0.655	0.672	0.766	22.7
trans-1,2-Dichloroethene	0.667	0.669	0.643	0.653	0.618	0.613	0.644	3.7
1,1-Dichloroethane	1.304	1.325	1.254	1.222	1.185	1.212	1.250	4.4
Cyclohexane		1.148	1.039	1.046	0.981	1.002	1.043	6.2
2-Butanone	0.552	0.608	0.650	0.643	0.617	0.618	0.615	5.7
Carbon Tetrachloride	0.453	0.523	0.498	0.517	0.504	0.518	0.502	5.1
cis-1,2-Dichloroethene	0.704	0.737	0.747	0.767	0.740	0.751	0.741	2.8
Bromochloromethane	0.596	0.640	0.578	0.595	0.597	0.584	0.598	3.6
Chloroform	1.181	1.299	1.303	1.279	1.214	1.234	1.251	4
1,1,1-Trichloroethane	1.043	1.146	1.096	1.084	1.049	1.085	1.084	3.4
Methylcyclohexane	0.447	0.442	0.482	0.529	0.519	0.541	0.493	8.6
Benzene	1.370	1.430	1.502	1.553	1.483	1.499	1.473	4.3
1,2-Dichloroethane	0.553	0.565	0.569	0.567	0.544	0.552	0.558	1.8
Trichloroethene	0.373	0.330	0.337	0.356	0.339	0.352	0.348	4.5
1,2-Dichloropropane	0.335	0.367	0.395	0.395	0.376	0.378	0.374	5.9
Bromodichloromethane	0.568	0.572	0.559	0.569	0.553	0.565	0.564	1.2
4-Methyl-2-Pentanone	0.551	0.641	0.685	0.689	0.658	0.652	0.646	7.8
Toluene	0.774	0.849	0.940	0.963	0.916	0.929	0.895	7.9

* 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.



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

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Alliance Contract: GENV01
 Lab Code: ACE SDG No.: Q2664
 Instrument ID: MSVOA_N Calibration Date(s): 07/16/2025 07/16/2025
 Heated Purge: (Y/N) N Calibration Time(s): 17:05 18:54
 GC Column: RXI-624 ID: 0.25 (mm)

LAB FILE ID:		RRF001 = VN087328.D		RRF005 = VN087329.D		RRF020 = VN087330.D			
		RRF050 = VN087331.D		RRF100 = VN087332.D		RRF150 = VN087333.D			
COMPOUND	RRF001	RRF005	RRF020	RRF050	RRF100	RRF150	RRF	% RSD	
t-1,3-Dichloropropene	0.459	0.536	0.586	0.621	0.607	0.619	0.571	11.1	
cis-1,3-Dichloropropene	0.489	0.564	0.602	0.632	0.620	0.632	0.590	9.4	
1,1,2-Trichloroethane	0.367	0.364	0.365	0.367	0.357	0.354	0.362	1.6	
2-Hexanone	0.279	0.373	0.465	0.495	0.481	0.479	0.429	19.9	
Dibromochloromethane	0.352	0.416	0.425	0.430	0.424	0.433	0.413	7.4	
1,2-Dibromoethane	0.367	0.373	0.391	0.385	0.381	0.389	0.381	2.5	
Tetrachloroethene	0.329	0.338	0.317	0.320	0.310	0.317	0.322	3.2	
Chlorobenzene	1.139	1.131	1.133	1.119	1.092	1.122	1.123	1.5	
Ethyl Benzene	1.643	1.738	1.882	1.942	1.905	1.979	1.848	7	
m/p-Xylenes	0.541	0.646	0.717	0.758	0.734	0.756	0.692	12.2	
o-Xylene	0.491	0.606	0.702	0.723	0.710	0.734	0.661	14.4	
Styrene	0.726	1.032	1.186	1.255	1.217	1.257	1.112	18.6	
Bromoform	0.246	0.302	0.314	0.328	0.322	0.337	0.308	10.7	
Isopropylbenzene	2.524	2.889	3.242	3.396	3.302	3.529	3.147	11.9	
1,1,2,2-Tetrachloroethane	1.159	1.181	1.228	1.207	1.156	1.174	1.184	2.4	
1,2,4-Trimethylbenzene	2.201	2.411	2.906	3.003	2.872	3.034	2.738	12.6	
1,3-Dichlorobenzene	1.448	1.592	1.651	1.658	1.588	1.674	1.602	5.2	
1,4-Dichlorobenzene	1.807	1.709	1.742	1.703	1.627	1.677	1.711	3.6	
1,2-Dichlorobenzene	1.303	1.534	1.596	1.577	1.510	1.583	1.517	7.2	
1,2-Dibromo-3-Chloropropane	0.339	0.325	0.304	0.302	0.290	0.305	0.311	5.8	
1,2,4-Trichlorobenzene	0.761	0.860	0.875	0.937	0.921	0.994	0.891	8.9	
1,2,3-Trichlorobenzene	0.803	0.844	0.887	0.922	0.917	0.992	0.894	7.4	
1,2-Dichloroethane-d4		0.939	0.820	0.802	0.818	0.863	0.848	6.6	
Dibromofluoromethane		0.347	0.341	0.332	0.348	0.356	0.345	2.6	
Toluene-d8		1.180	1.176	1.224	1.255	1.316	1.230	4.7	
4-Bromofluorobenzene		0.405	0.433	0.455	0.476	0.505	0.455	8.5	

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

Method Path : Z:\voasrv\HPCHEM1\MSVOA_N\methods\
 Method File : 82N071625W.M
 Title : SW846 8260
 Last Update : Thu Jul 17 02:56:13 2025
 Response Via : Initial Calibration

Calibration Files

1 =VN087328.D 5 =VN087329.D 20 =VN087330.D 50 =VN087331.D 100 =VN087332.D 150 =VN087333.D

	Compound	1	5	20	50	100	150	Avg	%RSD
1) I	Pentafluorobenzene	-----ISTD-----							
2) T	Dichlorodifluo...	0.447	0.443	0.443	0.623	0.606	0.625	0.531	17.98
3) P	Chloromethane	0.714	0.659	0.588	0.690	0.659	0.698	0.668	6.70
4) C	Vinyl Chloride	0.554	0.665	0.623	0.728	0.692	0.720	0.664	9.93#
5) T	Bromomethane		0.328	0.308	0.355	0.356	0.370	0.344	7.22
6) T	Chloroethane	0.396	0.485	0.431	0.441	0.415	0.429	0.433	6.96
7) T	Trichlorofluor...	0.959	0.975	0.963	1.025	0.960	1.007	0.981	2.83
8) T	Diethyl Ether	0.335	0.391	0.399	0.395	0.371	0.393	0.381	6.40
9) T	1,1,2-Trichlor...	0.463	0.495	0.539	0.525	0.491	0.509	0.504	5.34
10) T	Methyl Iodide		0.288	0.360	0.494	0.554	0.564	0.452	27.17
11) T	Tert butyl alc...		0.164	0.155	0.161	0.161	0.164	0.161	2.41
12) CM	1,1-Dichloroet...	0.635	0.641	0.553	0.545	0.514	0.537	0.571	9.41#
13) T	Acrolein		0.140	0.112	0.121	0.130	0.143	0.129	9.85
14) T	Allyl chloride	0.949	0.978	1.134	1.002	0.995	1.141	1.033	8.02
15) T	Acrylonitrile	0.419	0.419	0.455	0.453	0.436	0.440	0.437	3.57
16) T	Acetone	0.455	0.426	0.393	0.387	0.361	0.366	0.398	9.15
17) T	Carbon Disulfide	1.686	1.685	1.669	1.733	1.643	1.739	1.693	2.20
18) T	Methyl Acetate	1.007	1.052	0.991	0.991	0.962	0.993	0.999	2.99
19) T	Methyl tert-bu...	1.911	2.099	2.106	2.167	2.129	2.213	2.104	4.93
20) T	Methylene Chlo...	1.107	0.788	0.700	0.672	0.655	0.672	0.766	22.70
21) T	trans-1,2-Dich...	0.667	0.669	0.643	0.653	0.618	0.613	0.644	3.69
22) T	Diisopropyl ether	1.797	2.199	2.353	2.286	2.165	2.201	2.167	8.94
23) T	Vinyl Acetate	1.421	1.685	2.101	2.114	2.007	2.044	1.895	14.81
24) P	1,1-Dichloroet...	1.304	1.325	1.254	1.222	1.185	1.212	1.250	4.38
25) T	2-Butanone	0.552	0.608	0.650	0.643	0.617	0.618	0.615	5.65
26) T	2,2-Dichloropr...	1.013	0.963	1.001	0.982	0.933	0.941	0.972	3.34
27) T	cis-1,2-Dichlo...	0.704	0.737	0.747	0.767	0.740	0.751	0.741	2.83
28) T	Bromochloromet...	0.596	0.640	0.578	0.595	0.597	0.584	0.598	3.64
29) T	Tetrahydrofuran	0.360	0.397	0.413	0.425	0.400	0.401	0.399	5.52
30) C	Chloroform	1.181	1.299	1.303	1.279	1.214	1.234	1.251	3.97#
31) T	Cyclohexane		1.148	1.039	1.046	0.981	1.002	1.043	6.16
32) T	1,1,1-Trichlor...	1.043	1.146	1.096	1.084	1.049	1.085	1.084	3.42
33) S	1,2-Dichloroet...		0.939	0.820	0.802	0.818	0.863	0.848	6.56
34) I	1,4-Difluorobenzene	-----ISTD-----							
35) S	Dibromofluorom...		0.347	0.341	0.332	0.348	0.356	0.345	2.55
36) T	1,1-Dichloropr...	0.387	0.437	0.459	0.487	0.477	0.487	0.456	8.47
37) T	Ethyl Acetate	0.587	0.671	0.655	0.706	0.660	0.669	0.658	5.94
38) T	Carbon Tetrach...	0.453	0.523	0.498	0.517	0.504	0.518	0.502	5.10
39) T	Methylcyclohexane	0.447	0.442	0.482	0.529	0.519	0.541	0.493	8.62
40) TM	Benzene	1.370	1.430	1.502	1.553	1.483	1.499	1.473	4.34
41) T	Methacrylonitrile	0.289	0.330	0.362	0.368	0.353	0.363	0.344	8.81
42) TM	1,2-Dichloroet...	0.553	0.565	0.569	0.567	0.544	0.552	0.558	1.78
43) T	Isopropyl Acetate	0.938	0.999	1.029	1.071	1.038	1.055	1.022	4.64
44) TM	Trichloroethene	0.373	0.330	0.337	0.356	0.339	0.352	0.348	4.49
45) C	1,2-Dichloropr...	0.335	0.367	0.395	0.395	0.376	0.378	0.374	5.90#
46) T	Dibromomethane	0.265	0.296	0.279	0.289	0.274	0.278	0.280	3.94
47) T	Bromodichlorom...	0.568	0.572	0.559	0.569	0.553	0.565	0.564	1.21
48) T	Methyl methacr...	0.372	0.412	0.475	0.505	0.493	0.503	0.460	12.06
49) T	1,4-Dioxane	0.006	0.007	0.007	0.008	0.008	0.008	0.007	12.52
50) S	Toluene-d8		1.180	1.176	1.224	1.255	1.316	1.230	4.72
51) T	4-Methyl-2-Pen...	0.551	0.641	0.685	0.689	0.658	0.652	0.646	7.79
52) CM	Toluene	0.774	0.849	0.940	0.963	0.916	0.929	0.895	7.93#
53) T	t-1,3-Dichloro...	0.459	0.536	0.586	0.621	0.607	0.619	0.571	11.08
54) T	cis-1,3-Dichlo...	0.489	0.564	0.602	0.632	0.620	0.632	0.590	9.40
55) T	1,1,2-Trichlor...	0.367	0.364	0.365	0.367	0.357	0.354	0.362	1.57
56) T	Ethyl methacry...	0.348	0.486	0.567	0.627	0.626	0.656	0.552	21.20

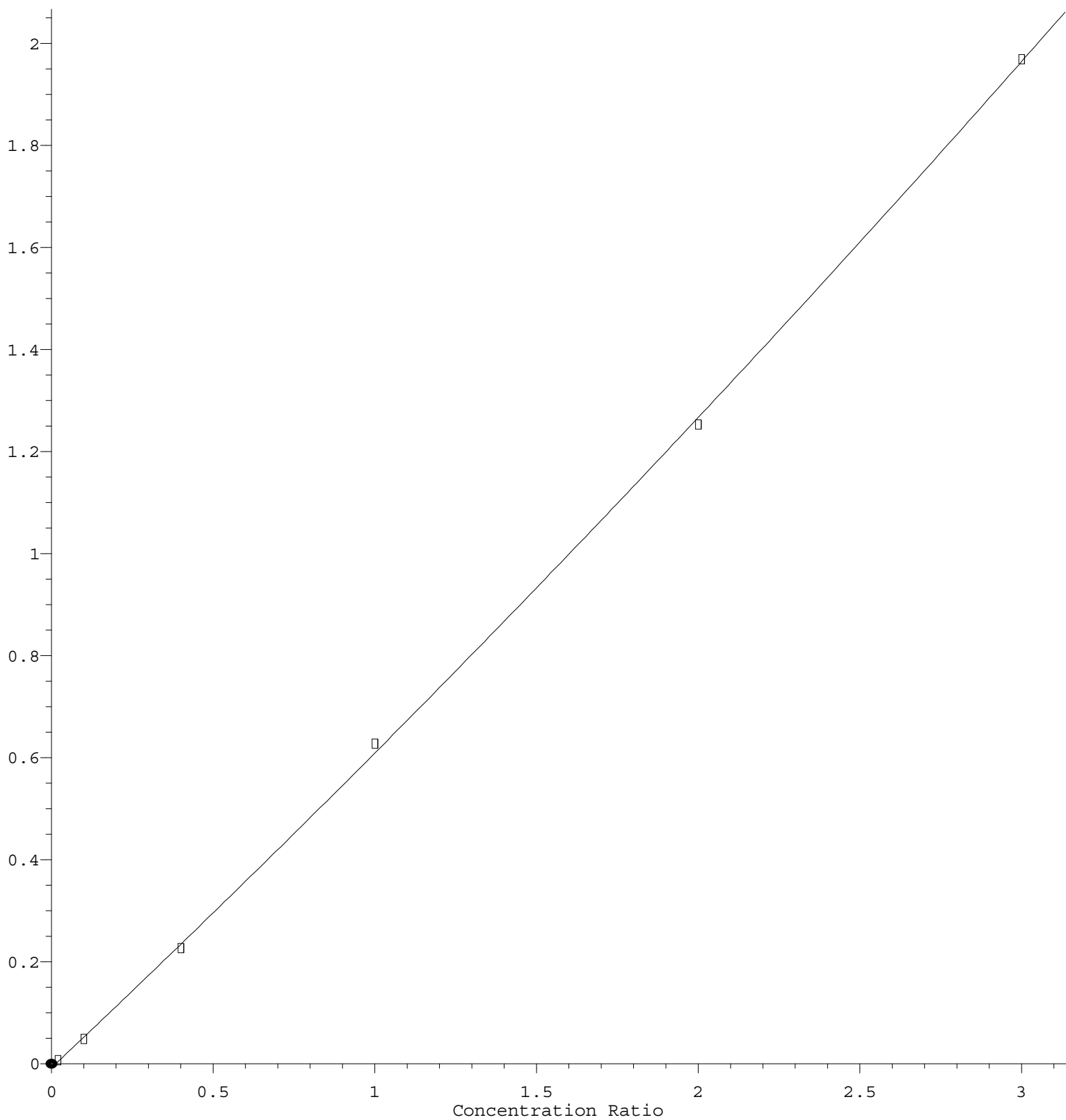
Method Path : Z:\voasrv\HPCHEM1\MSVOA_N\methods\
 Method File : 82N071625W.M

57)	T	1,3-Dichloropr...	0.556	0.621	0.652	0.655	0.636	0.640	0.627	5.82
58)	T	2-Chloroethyl ...	0.220	0.273	0.303	0.346	0.310	0.332	0.297	15.20
59)	T	2-Hexanone	0.279	0.373	0.465	0.495	0.481	0.479	0.429	19.95
60)	T	Dibromochlorom...	0.352	0.416	0.425	0.430	0.424	0.433	0.413	7.39
61)	T	1,2-Dibromoethane	0.367	0.373	0.391	0.385	0.381	0.389	0.381	2.49
62)	S	4-Bromofluorob...	0.405	0.433	0.455	0.476	0.505	0.455		8.46
63)	I	Chlorobenzene-d5	-----ISTD-----							
64)	T	Tetrachloroethene	0.329	0.338	0.317	0.320	0.310	0.317	0.322	3.16
65)	PM	Chlorobenzene	1.139	1.131	1.133	1.119	1.092	1.122	1.123	1.48
66)	T	1,1,1,2-Tetrac...	0.324	0.406	0.393	0.393	0.381	0.394	0.382	7.64
67)	C	Ethyl Benzene	1.643	1.738	1.882	1.942	1.905	1.979	1.848	7.04#
68)	T	m/p-Xylenes	0.541	0.646	0.717	0.758	0.734	0.756	0.692	12.20
69)	T	o-Xylene	0.491	0.606	0.702	0.723	0.710	0.734	0.661	14.39
70)	T	Styrene	0.726	1.032	1.186	1.255	1.217	1.257	1.112	18.59
71)	P	Bromoform	0.246	0.302	0.314	0.328	0.322	0.337	0.308	10.69
72)	I	1,4-Dichlorobenzen...	-----ISTD-----							
73)	T	Isopropylbenzene	2.524	2.889	3.242	3.396	3.302	3.529	3.147	11.86
74)	T	N-amyl acetate	1.309	1.256	1.249	1.138	1.378	1.515	1.307	9.83
75)	P	1,1,2,2-Tetrac...	1.159	1.181	1.228	1.207	1.156	1.174	1.184	2.37
76)	T	1,2,3-Trichlor...	1.208	1.238	1.101	1.191	0.969	1.019	1.121	9.79
77)	T	Bromobenzene	0.669	0.791	0.862	0.869	0.830	0.876	0.816	9.63
78)	T	n-propylbenzene	3.252	3.716	4.089	4.294	4.109	4.295	3.959	10.25
79)	T	2-Chlorotoluene	2.085	2.348	2.535	2.533	2.493	2.605	2.433	7.84
80)	T	1,3,5-Trimethy...	2.069	2.517	2.816	2.928	2.799	2.959	2.681	12.62
81)	T	trans-1,4-Dich...	0.327	0.448	0.404	0.417	0.453	0.410		12.30
82)	T	4-Chlorotoluene	2.225	2.460	2.618	2.647	2.552	2.699	2.533	6.79
83)	T	tert-Butylbenzene	1.781	2.068	2.303	2.423	2.376	2.485	2.239	11.92
84)	T	1,2,4-Trimethy...	2.201	2.411	2.906	3.003	2.872	3.034	2.738	12.64
85)	T	sec-Butylbenzene	3.120	3.136	3.460	3.565	3.387	3.570	3.373	5.98
86)	T	p-Isopropyltol...	2.081	2.417	2.806	2.991	2.893	3.032	2.703	13.90
87)	T	1,3-Dichlorobe...	1.448	1.592	1.651	1.657	1.588	1.674	1.602	5.19
88)	T	1,4-Dichlorobe...	1.807	1.709	1.742	1.703	1.627	1.677	1.711	3.56
89)	T	n-Butylbenzene	2.278	2.425	2.648	2.761	2.614	2.762	2.581	7.49
90)	T	Hexachloroethane	0.593	0.564	0.562	0.576	0.552	0.590	0.573	2.86
91)	T	1,2-Dichlorobe...	1.303	1.534	1.596	1.577	1.510	1.583	1.517	7.23
92)	T	1,2-Dibromo-3-...	0.339	0.325	0.304	0.302	0.290	0.305	0.311	5.76
93)	T	1,2,4-Trichlor...	0.761	0.860	0.875	0.937	0.921	0.994	0.891	8.94
94)	T	Hexachlorobuta...	0.351	0.337	0.324	0.329	0.316	0.331	0.331	3.57
95)	T	Naphthalene	2.486	2.658	3.113	3.441	3.451	3.797	3.158	16.01
96)	T	1,2,3-Trichlor...	0.803	0.844	0.887	0.922	0.917	0.992	0.894	7.37

(#) = Out of Range

Ethyl methacrylate

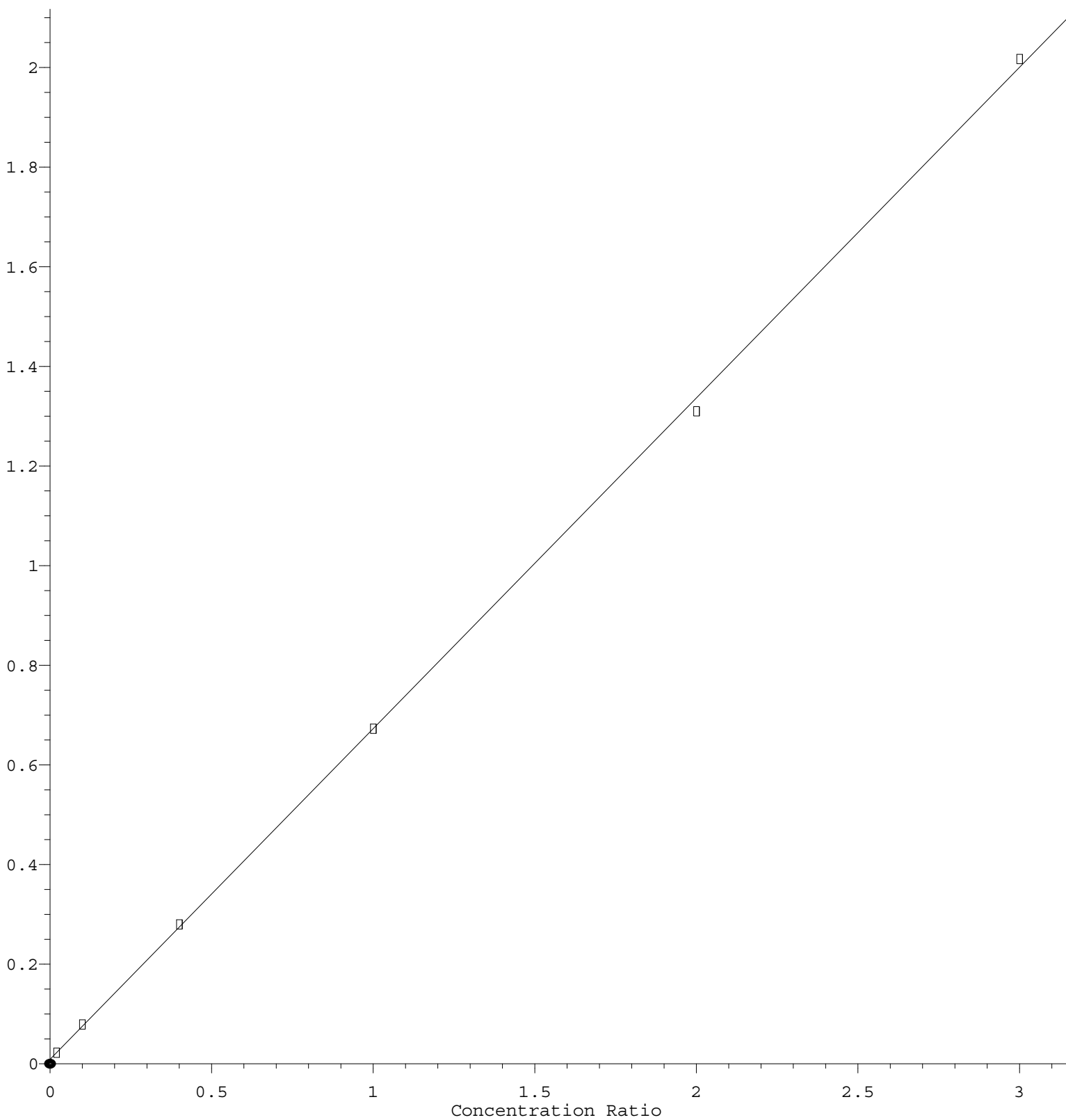
Response Ratio



$R = 2.028 \times 10^{-2} A^2 + 5.966 \times 10^{-1} A - 7.578 \times 10^{-3}$
Coef of Det (r^2) = 0.999797 Curve Fit: Quadratic
Method Name: Z:\voasrv\HPCHEM1\MSVOA N\methods\82N071625W.M
Calibration Table Last Updated: Thu Jul 17 02:56:13 2025

Methylene Chloride

Response Ratio



$$\text{Response} = 6.638\text{e-}001 * \text{Amt} + 8.611\text{e-}003$$

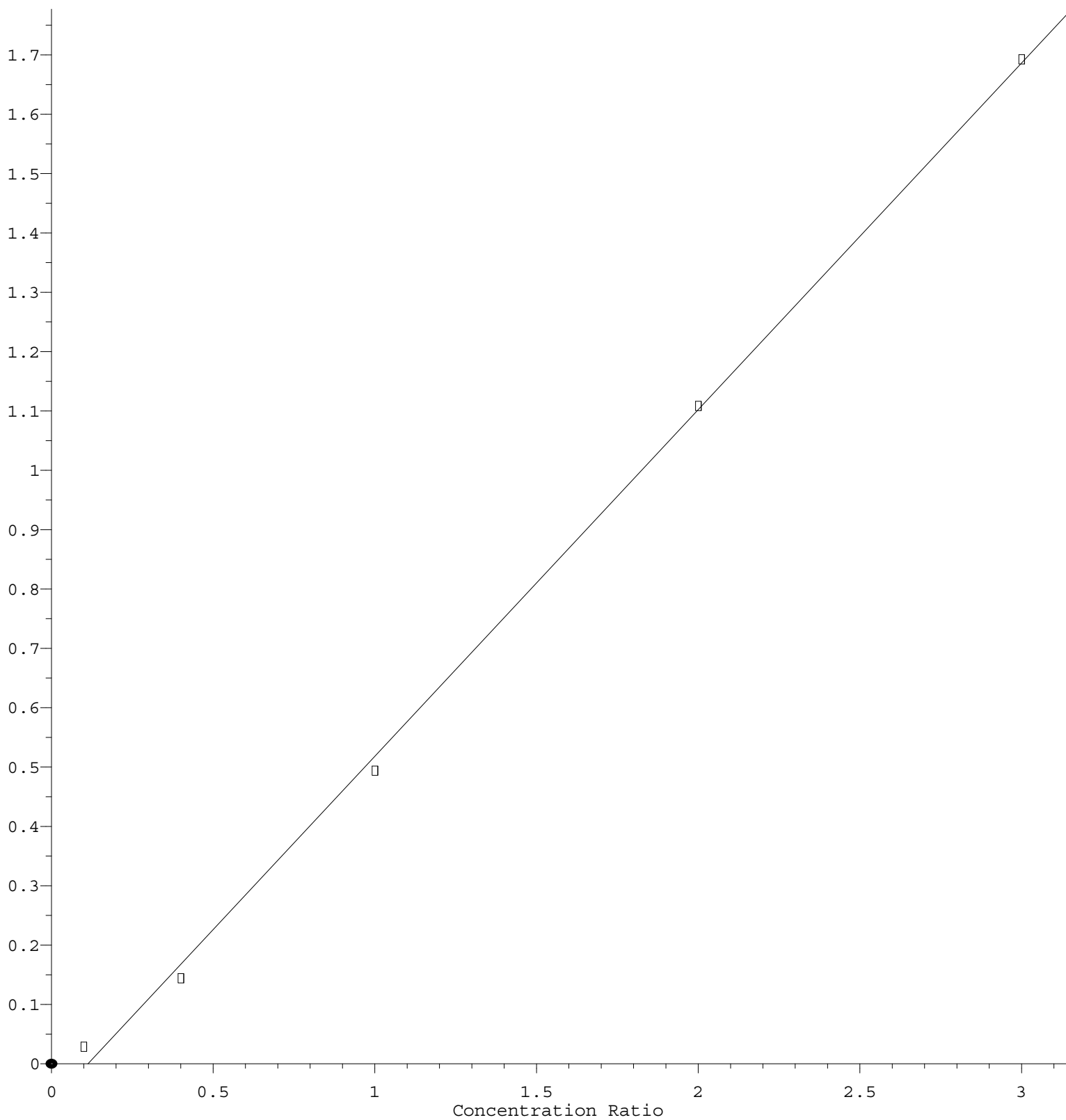
Coef of Det (r^2) = 0.999669 Curve Fit: Linear

Method Name: Z:\voasrv\HPCHEM1\MSVOA N\methods\82N071625W.M

Calibration Table Last Updated: Thu Jul 17 02:56:13 2025

Methyl Iodide

Response Ratio



$$\text{Response} = 5.841\text{e-}001 * \text{Amt} - 6.578\text{e-}002$$

Coef of Det (r^2) = 0.998697 Curve Fit: Linear

Method Name: Z:\voasrv\HPCHEM1\MSVOA N\methods\82N071625W.M

Calibration Table Last Updated: Thu Jul 17 02:56:13 2025

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN071625\
 Data File : VN087328.D
 Acq On : 16 Jul 2025 17:05
 Operator : JC\MD
 Sample : VSTDICC001
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC001

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 07/17/2025
 Supervised By :Semsettin Yesilyurt 07/17/2025

Quant Time: Jul 17 02:16:50 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N071625W.M
 Quant Title : SW846 8260
 QLast Update : Thu Jul 17 02:09:29 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.212	168	166177	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.082	114	312474	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.847	117	274838	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.770	152	128808	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	2.142	85	1484	0.841	ug/l	98
3) Chloromethane	2.389	50	2372	1.069	ug/l	96
4) Vinyl Chloride	2.542	62	1841	0.835	ug/l #	68
6) Chloroethane	3.153	64	1316	0.915	ug/l	93
7) Trichlorofluoromethane	3.506	101	3187	0.977	ug/l	92
8) Diethyl Ether	3.965	74	1114	0.880	ug/l	79
9) 1,1,2-Trichlorotrifluo...	4.371	101	1539	0.919	ug/l #	31
12) 1,1-Dichloroethene	4.347	96	2112	1.113	ug/l #	53
14) Allyl chloride	5.012	41	3155m	0.919	ug/l	
15) Acrylonitrile	5.712	53	6965	4.794	ug/l #	80
16) Acetone	4.430	43	7566m	5.660	ug/l	
17) Carbon Disulfide	4.700	76	5602	0.996	ug/l #	71
18) Methyl Acetate	5.018	43	3347	1.008	ug/l #	74
19) Methyl tert-butyl Ether	5.789	73	6351m	0.908	ug/l	
20) Methylene Chloride	5.271	84	3679	1.019	ug/l #	74
21) trans-1,2-Dichloroethene	5.777	96	2216	1.036	ug/l #	53
22) Diisopropyl ether	6.659	45	5973	0.829	ug/l #	75
23) Vinyl Acetate	6.600	43	23617	3.749	ug/l #	93
24) 1,1-Dichloroethane	6.547	63	4333	1.043	ug/l #	83
25) 2-Butanone	7.477	43	9174	4.491	ug/l	99
26) 2,2-Dichloropropane	7.471	77	3368	1.043	ug/l #	67
27) cis-1,2-Dichloroethene	7.471	96	2340	0.950	ug/l	99
28) Bromochloromethane	7.794	49	1982	0.997	ug/l #	85
29) Tetrahydrofuran	7.835	42	5981	4.507	ug/l	94
30) Chloroform	7.953	83	3924	0.943	ug/l #	71
32) 1,1,1-Trichloroethane	8.165	97	3468	0.963	ug/l #	45
36) 1,1-Dichloropropene	8.353	75	2421	0.850	ug/l	96
37) Ethyl Acetate	7.547	43	3670	0.892	ug/l #	82
38) Carbon Tetrachloride	8.341	117	2833	0.903	ug/l #	83
39) Methylcyclohexane	9.588	83	2794	0.906	ug/l #	86
40) Benzene	8.588	78	8561	0.930	ug/l	97
41) Methacrylonitrile	7.771	41	1805	0.839	ug/l #	87
42) 1,2-Dichloroethane	8.653	62	3456	0.990	ug/l	89
43) Isopropyl Acetate	8.677	43	5865	0.919	ug/l #	95
44) Trichloroethene	9.341	130	2331	1.072	ug/l	70
45) 1,2-Dichloropropane	9.606	63	2094	0.895	ug/l #	86

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN071625\
 Data File : VN087328.D
 Acq On : 16 Jul 2025 17:05
 Operator : JC\MD
 Sample : VSTDICC001
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC001

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 07/17/2025

Supervised By :Semsettin Yesilyurt 07/17/2025

Quant Time: Jul 17 02:16:50 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N071625W.M

Quant Title : SW846 8260

QLast Update : Thu Jul 17 02:09:29 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) Dibromomethane	9.694	93	1657	0.946	ug/l #	87
47) Bromodichloromethane	9.871	83	3549	1.006	ug/l #	91
48) Methyl methacrylate	9.671	41	2322	0.808	ug/l	94
49) 1,4-Dioxane	9.682	88	696	15.810	ug/l #	53
51) 4-Methyl-2-Pentanone	10.429	43	17216	4.263	ug/l	91
52) Toluene	10.612	92	4834	0.864	ug/l	91
53) t-1,3-Dichloropropene	10.818	75	2869	0.804	ug/l #	56
54) cis-1,3-Dichloropropene	10.294	75	3059	0.830	ug/l	94
55) 1,1,2-Trichloroethane	11.000	97	2294	1.013	ug/l #	83
56) Ethyl methacrylate	10.859	69	2173	1.217	ug/l #	90
57) 1,3-Dichloropropane	11.141	76	3477	0.888	ug/l	95
58) 2-Chloroethyl Vinyl ether	10.141	63	6887	3.707	ug/l	96
59) 2-Hexanone	11.182	43	8707	3.250	ug/l	87
60) Dibromochloromethane	11.347	129	2200	0.852	ug/l	82
61) 1,2-Dibromoethane	11.459	107	2291	0.962	ug/l	90
64) Tetrachloroethene	11.088	164	1807	1.022	ug/l #	75
65) Chlorobenzene	11.870	112	6259	1.014	ug/l	98
66) 1,1,1,2-Tetrachloroethane	11.941	131	1783	0.850	ug/l #	50
67) Ethyl Benzene	11.941	91	9031	0.889	ug/l	92
68) m/p-Xylenes	12.053	106	5952	1.565	ug/l	97
69) o-Xylene	12.388	106	2700	0.743	ug/l	91
70) Styrene	12.400	104	3989	0.653	ug/l	91
71) Bromoform	12.559	173	1351	0.797	ug/l #	94
73) Isopropylbenzene	12.682	105	6501	0.802	ug/l	95
74) N-amyl acetate	12.841	43	3372m	1.065	ug/l	
75) 1,1,2,2-Tetrachloroethane	12.917	83	2986	0.979	ug/l #	78
76) 1,2,3-Trichloropropane	12.976	75	3113m	1.089	ug/l	
77) Bromobenzene	12.953	156	1724	0.820	ug/l	79
78) n-propylbenzene	13.017	91	8378	0.821	ug/l	95
79) 2-Chlorotoluene	13.100	91	5372	0.857	ug/l	93
80) 1,3,5-Trimethylbenzene	13.147	105	5329	0.772	ug/l	93
82) 4-Chlorotoluene	13.200	91	5733	0.878	ug/l	96
83) tert-Butylbenzene	13.412	119	4588	0.795	ug/l	90
84) 1,2,4-Trimethylbenzene	13.464	105	5671	0.804	ug/l	87
85) sec-Butylbenzene	13.594	105	8037	0.925	ug/l	97
86) p-Isopropyltoluene	13.712	119	5360	0.770	ug/l	92
87) 1,3-Dichlorobenzene	13.712	146	3731	0.904	ug/l	89
88) 1,4-Dichlorobenzene	13.794	146	4655m	1.056	ug/l	
89) n-Butylbenzene	14.035	91	5869	0.883	ug/l	91
90) Hexachloroethane	14.317	117	1527	1.035	ug/l	87
91) 1,2-Dichlorobenzene	14.088	146	3358	0.859	ug/l	85
92) 1,2-Dibromo-3-Chloropr...	14.711	75	874	1.091	ug/l #	56
93) 1,2,4-Trichlorobenzene	15.376	180	1960	0.854	ug/l	78
94) Hexachlorobutadiene	15.476	225	903	1.058	ug/l	76
95) Naphthalene	15.611	128	6404	0.787	ug/l #	95
96) 1,2,3-Trichlorobenzene	15.806	180	2068	0.898	ug/l	99

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

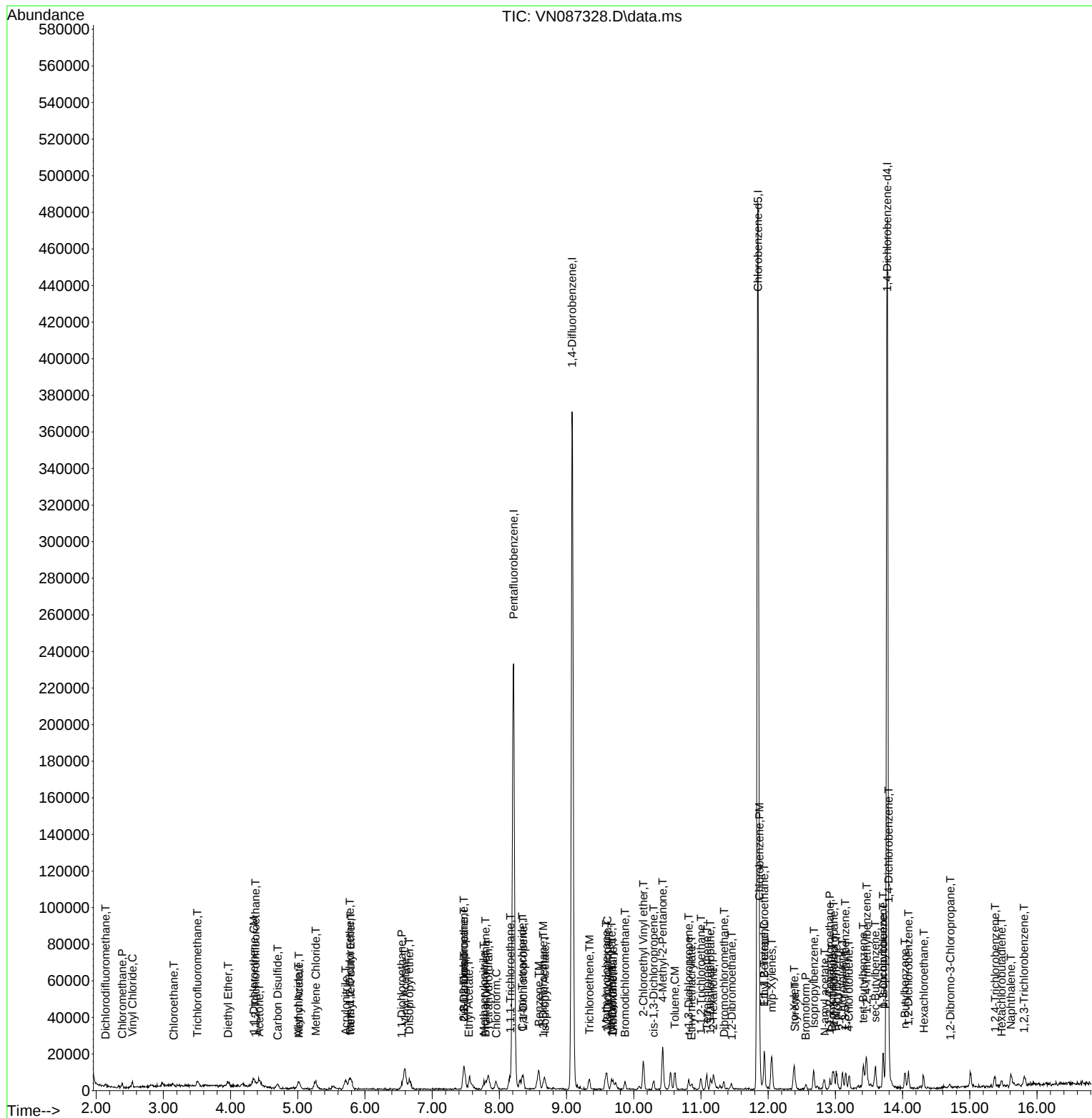
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Acq On    : 16 Jul 2025 17:05  
Operator  : JC\MD  
Sample    : VSTDICC001  
Misc      : 5.0mL/MSVOA_N/WATER  
ALS Vial  : 3    Sample Multiplier: 1
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Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 07/17/2025
Supervised By :Semsettin Yesilyurt 07/17/2025

Quant Time: Jul 17 02:16:50 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N071625W.M
Quant Title : SW846 8260
QLast Update : Thu Jul 17 02:09:29 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN071625\
 Data File : VN087329.D
 Acq On : 16 Jul 2025 17:27
 Operator : JC\MD
 Sample : VSTDICC005
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC005

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 07/17/2025
 Supervised By :Semsettin Yesilyurt 07/17/2025

Quant Time: Jul 17 02:17:44 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N071625W.M
 Quant Title : SW846 8260
 QLast Update : Thu Jul 17 02:09:29 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.206	168	172217	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.088	114	319926	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.847	117	285583	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.770	152	146494	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.565	65	16177	5.536	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	11.080%#		
35) Dibromofluoromethane	8.153	113	11111	5.035	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	10.060%#		
50) Toluene-d8	10.547	98	37751	4.796	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	9.600%#		
62) 4-Bromofluorobenzene	12.829	95	12943	4.450	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	8.900%#		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.142	85	7633	4.173	ug/l	90
3) Chloromethane	2.383	50	11350	4.934	ug/l	96
4) Vinyl Chloride	2.536	62	11459	5.013	ug/l	98
5) Bromomethane	2.971	94	5657	4.779	ug/l	87
6) Chloroethane	3.124	64	8358	5.606	ug/l #	81
7) Trichlorofluoromethane	3.506	101	16796	4.969	ug/l #	83
8) Diethyl Ether	3.959	74	6731	5.133	ug/l	91
9) 1,1,2-Trichlorotrifluo...	4.371	101	8532	4.917	ug/l #	19
10) Methyl Iodide	4.577	142	4952m	8.093	ug/l	
11) Tert butyl alcohol	5.536	59	14147	25.497	ug/l	98
12) 1,1-Dichloroethene	4.330	96	11037	5.613	ug/l #	83
13) Acrolein	4.177	56	12045	27.050	ug/l	96
14) Allyl chloride	5.006	41	16836	4.731	ug/l	97
15) Acrylonitrile	5.718	53	36114	23.986	ug/l	92
16) Acetone	4.430	43	36648	26.455	ug/l	96
17) Carbon Disulfide	4.695	76	29024	4.979	ug/l	94
18) Methyl Acetate	5.006	43	18125	5.265	ug/l	99
19) Methyl tert-butyl Ether	5.800	73	36155	4.989	ug/l	95
20) Methylene Chloride	5.259	84	13570	5.286	ug/l #	86
21) trans-1,2-Dichloroethene	5.765	96	11514	5.193	ug/l	81
22) Diisopropyl ether	6.671	45	37879	5.075	ug/l #	97
23) Vinyl Acetate	6.594	43	145089	22.225	ug/l #	94
24) 1,1-Dichloroethane	6.547	63	22819	5.299	ug/l	95
25) 2-Butanone	7.477	43	52336	24.722	ug/l	95
26) 2,2-Dichloropropane	7.483	77	16583	4.953	ug/l	100
27) cis-1,2-Dichloroethene	7.471	96	12690	4.972	ug/l	99
28) Bromochloromethane	7.789	49	11022	5.348	ug/l #	16
29) Tetrahydrofuran	7.830	42	34146	24.829	ug/l	99
30) Chloroform	7.959	83	22369	5.190	ug/l	84
31) Cyclohexane	8.236	56	19764	5.502	ug/l	87
32) 1,1,1-Trichloroethane	8.153	97	19739	5.287	ug/l #	51
36) 1,1-Dichloropropene	8.347	75	13965	4.790	ug/l	98
37) Ethyl Acetate	7.553	43	21482	5.102	ug/l	97
38) Carbon Tetrachloride	8.341	117	16718	5.205	ug/l #	89
39) Methylcyclohexane	9.582	83	14154	4.484	ug/l	86
40) Benzene	8.583	78	45748	4.855	ug/l	94

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN071625\
 Data File : VN087329.D
 Acq On : 16 Jul 2025 17:27
 Operator : JC\MD
 Sample : VSTDICC005
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC005

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 07/17/2025
 Supervised By :Semsettin Yesilyurt 07/17/2025

Quant Time: Jul 17 02:17:44 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N071625W.M
 Quant Title : SW846 8260
 QLast Update : Thu Jul 17 02:09:29 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.765	41	10551	4.792	ug/l	97
42) 1,2-Dichloroethane	8.653	62	18086	5.061	ug/l	96
43) Isopropyl Acetate	8.677	43	31964	4.890	ug/l	100
44) Trichloroethene	9.335	130	10573	4.748	ug/l	79
45) 1,2-Dichloropropane	9.606	63	11728	4.898	ug/l	95
46) Dibromomethane	9.694	93	9473	5.284	ug/l	96
47) Bromodichloromethane	9.865	83	18300	5.068	ug/l #	82
48) Methyl methacrylate	9.665	41	13169	4.475	ug/l	95
49) 1,4-Dioxane	9.682	88	4176	92.653	ug/l #	87
51) 4-Methyl-2-Pentanone	10.430	43	102519	24.797	ug/l	97
52) Toluene	10.612	92	27158	4.742	ug/l	96
53) t-1,3-Dichloropropene	10.824	75	17133	4.688	ug/l #	87
54) cis-1,3-Dichloropropene	10.294	75	18046	4.780	ug/l	97
55) 1,1,2-Trichloroethane	11.000	97	11643	5.021	ug/l #	88
56) Ethyl methacrylate	10.859	69	15548	4.693	ug/l	95
57) 1,3-Dichloropropane	11.141	76	19868	4.956	ug/l	99
58) 2-Chloroethyl Vinyl ether	10.147	63	43690	22.968	ug/l	94
59) 2-Hexanone	11.182	43	59736	21.778	ug/l	99
60) Dibromochloromethane	11.335	129	13321	5.037	ug/l	100
61) 1,2-Dibromoethane	11.453	107	11942	4.898	ug/l	89
64) Tetrachloroethene	11.082	164	9660	5.256	ug/l	95
65) Chlorobenzene	11.871	112	32304	5.038	ug/l	96
66) 1,1,1,2-Tetrachloroethane	11.941	131	11581	5.312	ug/l	96
67) Ethyl Benzene	11.947	91	49622	4.701	ug/l	92
68) m/p-Xylenes	12.059	106	36883	9.332	ug/l	98
69) o-Xylene	12.376	106	17293	4.580	ug/l	97
70) Styrene	12.394	104	29462	4.639	ug/l	99
71) Bromoform	12.559	173	8628	4.899	ug/l #	96
73) Isopropylbenzene	12.676	105	42320	4.590	ug/l	98
74) N-amyl acetate	12.647	43	18405m	5.113	ug/l	
75) 1,1,2,2-Tetrachloroethane	12.918	83	17305	4.988	ug/l	95
76) 1,2,3-Trichloropropane	12.976	75	18135m	5.580	ug/l	
77) Bromobenzene	12.965	156	11589	4.847	ug/l	84
78) n-propylbenzene	13.018	91	54443	4.693	ug/l	99
79) 2-Chlorotoluene	13.106	91	34400	4.825	ug/l	99
80) 1,3,5-Trimethylbenzene	13.153	105	36874	4.694	ug/l	100
81) trans-1,4-Dichloro-2-b...	12.718	75	4795	3.994	ug/l #	80
82) 4-Chlorotoluene	13.200	91	36031	4.854	ug/l	98
83) tert-Butylbenzene	13.418	119	30293	4.617	ug/l	96
84) 1,2,4-Trimethylbenzene	13.465	105	35326	4.403	ug/l	99
85) sec-Butylbenzene	13.594	105	45947	4.649	ug/l	98
86) p-Isopropyltoluene	13.706	119	35413	4.471	ug/l	97
87) 1,3-Dichlorobenzene	13.718	146	23326	4.970	ug/l	95
88) 1,4-Dichlorobenzene	13.794	146	25031	4.994	ug/l	90
89) n-Butylbenzene	14.035	91	35522	4.697	ug/l	95
90) Hexachloroethane	14.312	117	8261	4.923	ug/l	98
91) 1,2-Dichlorobenzene	14.088	146	22474	5.055	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	14.700	75	4757	5.223	ug/l	87
93) 1,2,4-Trichlorobenzene	15.364	180	12595	4.823	ug/l	97
94) Hexachlorobutadiene	15.476	225	4936	5.087	ug/l	98
95) Naphthalene	15.617	128	38936	4.208	ug/l	99
96) 1,2,3-Trichlorobenzene	15.812	180	12368	4.721	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN071625\
Data File : VN087329.D
Acq On : 16 Jul 2025 17:27
Operator : JC\MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 07/17/2025
Supervised By :Semsettin Yesilyurt 07/17/2025

Quant Time: Jul 17 02:17:44 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N071625W.M
Quant Title : SW846 8260
QLast Update : Thu Jul 17 02:09:29 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
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(#) = qualifier out of range (m) = manual integration (+) = signals summed

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Manual Integrations

Reviewed By :Mahesh Dadoda 07/17/2025
Supervised By :Semsettin Yesilyurt 07/17/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN071625\
 Data File : VN087330.D
 Acq On : 16 Jul 2025 17:49
 Operator : JC\MD
 Sample : VSTDICC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC020

Quant Time: Jul 17 02:18:38 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N071625W.M
 Quant Title : SW846 8260
 QLast Update : Thu Jul 17 02:09:29 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 07/17/2025
 Supervised By :Semsettin Yesilyurt 07/17/2025

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

Internal Standards						
1) Pentafluorobenzene	8.212	168	178514	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.088	114	328159	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.847	117	297202	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.770	152	156249	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.565	65	58584	19.341	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	38.680%#		
35) Dibromofluoromethane	8.153	113	44726	19.758	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	39.520%#		
50) Toluene-d8	10.547	98	154381	19.119	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	38.240%#		
62) 4-Bromofluorobenzene	12.829	95	56832	19.051	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	38.100%#		
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	2.142	85	31604	16.669	ug/l	86
3) Chloromethane	2.383	50	41982	17.608	ug/l	94
4) Vinyl Chloride	2.542	62	44508	18.784	ug/l	99
5) Bromomethane	2.971	94	22025	17.950	ug/l	98
6) Chloroethane	3.130	64	30785	19.922	ug/l	100
7) Trichlorofluoromethane	3.506	101	68764	19.626	ug/l	97
8) Diethyl Ether	3.959	74	28520	20.984	ug/l	97
9) 1,1,2-Trichlorotrifluo...	4.365	101	38516	21.414	ug/l	95
10) Methyl Iodide	4.577	142	25698	17.955	ug/l	97
11) Tert butyl alcohol	5.530	59	55298	96.147	ug/l	99
12) 1,1-Dichloroethene	4.330	96	39480	19.370	ug/l	96
13) Acrolein	4.177	56	40135	86.954	ug/l	98
14) Allyl chloride	5.006	41	80983	21.955	ug/l	88
15) Acrylonitrile	5.712	53	162325	104.007	ug/l	99
16) Acetone	4.424	43	140161	97.607	ug/l	93
17) Carbon Disulfide	4.700	76	119191	19.725	ug/l #	93
18) Methyl Acetate	5.012	43	70735	19.824	ug/l	99
19) Methyl tert-butyl Ether	5.794	73	150385	20.018	ug/l	97
20) Methylene Chloride	5.265	84	49951	20.427	ug/l	87
21) trans-1,2-Dichloroethene	5.771	96	45917	19.980	ug/l	90
22) Diisopropyl ether	6.659	45	168043	21.719	ug/l	97
23) Vinyl Acetate	6.594	43	750202	110.863	ug/l	98
24) 1,1-Dichloroethane	6.559	63	89552	20.062	ug/l	95
25) 2-Butanone	7.477	43	231983	105.718	ug/l	96
26) 2,2-Dichloropropane	7.483	77	71478	20.596	ug/l	97
27) cis-1,2-Dichloroethene	7.471	96	53347	20.162	ug/l	98
28) Bromochloromethane	7.794	49	41285	19.325	ug/l	100
29) Tetrahydrofuran	7.830	42	147436	103.426	ug/l	99
30) Chloroform	7.953	83	93018	20.819	ug/l	100
31) Cyclohexane	8.241	56	74161	19.915	ug/l	98
32) 1,1,1-Trichloroethane	8.153	97	78235	20.217	ug/l	97
36) 1,1-Dichloropropene	8.359	75	60302	20.163	ug/l	98
37) Ethyl Acetate	7.553	43	85921	19.893	ug/l	98
38) Carbon Tetrachloride	8.347	117	65336	19.832	ug/l	95
39) Methylcyclohexane	9.588	83	63264	19.539	ug/l	95
40) Benzene	8.588	78	197187	20.400	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN071625\
 Data File : VN087330.D
 Acq On : 16 Jul 2025 17:49
 Operator : JC\MD
 Sample : VSTDICC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC020

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 07/17/2025

Supervised By :Semsettin Yesilyurt 07/17/2025

Quant Time: Jul 17 02:18:38 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N071625W.M

Quant Title : SW846 8260

QLast Update : Thu Jul 17 02:09:29 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.771	41	47550	21.054	ug/l	97
42) 1,2-Dichloroethane	8.659	62	74680	20.374	ug/l	99
43) Isopropyl Acetate	8.677	43	135010	20.136	ug/l	99
44) Trichloroethene	9.335	130	44202	19.354	ug/l	98
45) 1,2-Dichloropropane	9.606	63	51786	21.086	ug/l	97
46) Dibromomethane	9.688	93	36673	19.943	ug/l	96
47) Bromodichloromethane	9.871	83	73409	19.819	ug/l	93
48) Methyl methacrylate	9.665	41	62316	20.645	ug/l	99
49) 1,4-Dioxane	9.682	88	18509	400.357	ug/l #	100
51) 4-Methyl-2-Pentanone	10.429	43	449710	106.046	ug/l	99
52) Toluene	10.612	92	123391	21.002	ug/l	98
53) t-1,3-Dichloropropene	10.818	75	76959	20.530	ug/l	92
54) cis-1,3-Dichloropropene	10.294	75	79019	20.407	ug/l	96
55) 1,1,2-Trichloroethane	11.000	97	47960	20.164	ug/l	94
56) Ethyl methacrylate	10.859	69	74408	19.384	ug/l	99
57) 1,3-Dichloropropane	11.147	76	85537	20.800	ug/l	99
58) 2-Chloroethyl Vinyl ether	10.141	63	198704	101.839	ug/l	100
59) 2-Hexanone	11.182	43	305342	108.526	ug/l	99
60) Dibromochloromethane	11.341	129	55783	20.564	ug/l	98
61) 1,2-Dibromoethane	11.447	107	51292	20.509	ug/l	97
64) Tetrachloroethene	11.082	164	37655	19.686	ug/l	93
65) Chlorobenzene	11.871	112	134668	20.183	ug/l	95
66) 1,1,1,2-Tetrachloroethane	11.941	131	46671	20.570	ug/l	98
67) Ethyl Benzene	11.947	91	223715	20.367	ug/l	100
68) m/p-Xylenes	12.053	106	170590	41.473	ug/l	98
69) o-Xylene	12.376	106	83415	21.230	ug/l	98
70) Styrene	12.388	104	140937	21.323	ug/l	100
71) Bromoform	12.559	173	37362	20.383	ug/l #	99
73) Isopropylbenzene	12.676	105	202595	20.601	ug/l	100
74) N-amyl acetate	12.512	43	78074m	20.334	ug/l	
75) 1,1,2,2-Tetrachloroethane	12.918	83	76720	20.733	ug/l	98
76) 1,2,3-Trichloropropane	12.976	75	68839m	19.858	ug/l	
77) Bromobenzene	12.959	156	53881	21.127	ug/l	97
78) n-propylbenzene	13.017	91	255577	20.656	ug/l	99
79) 2-Chlorotoluene	13.106	91	158436	20.836	ug/l	96
80) 1,3,5-Trimethylbenzene	13.153	105	176006	21.006	ug/l	99
81) trans-1,4-Dichloro-2-b...	12.717	75	27975	21.846	ug/l	90
82) 4-Chlorotoluene	13.200	91	163615	20.667	ug/l	99
83) tert-Butylbenzene	13.417	119	143954	20.571	ug/l	98
84) 1,2,4-Trimethylbenzene	13.465	105	181623	21.226	ug/l	100
85) sec-Butylbenzene	13.594	105	216256	20.516	ug/l	99
86) p-Isopropyltoluene	13.706	119	175352	20.758	ug/l	99
87) 1,3-Dichlorobenzene	13.712	146	103157	20.609	ug/l	99
88) 1,4-Dichlorobenzene	13.788	146	108898	20.370	ug/l	98
89) n-Butylbenzene	14.035	91	165484	20.516	ug/l	99
90) Hexachloroethane	14.312	117	35108	19.615	ug/l	96
91) 1,2-Dichlorobenzene	14.088	146	99750	21.036	ug/l	97
92) 1,2-Dibromo-3-Chloropr...	14.700	75	19015	19.573	ug/l	98
93) 1,2,4-Trichlorobenzene	15.370	180	54714	19.643	ug/l	99
94) Hexachlorobutadiene	15.476	225	20248	19.563	ug/l	96
95) Naphthalene	15.617	128	194574	19.718	ug/l	100
96) 1,2,3-Trichlorobenzene	15.811	180	55463	19.850	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN071625\
Data File : VN087330.D
Acq On : 16 Jul 2025 17:49
Operator : JC\MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 07/17/2025
Supervised By :Semsettin Yesilyurt 07/17/2025

Quant Time: Jul 17 02:18:38 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N071625W.M
Quant Title : SW846 8260
QLast Update : Thu Jul 17 02:09:29 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
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(#) = qualifier out of range (m) = manual integration (+) = signals summed

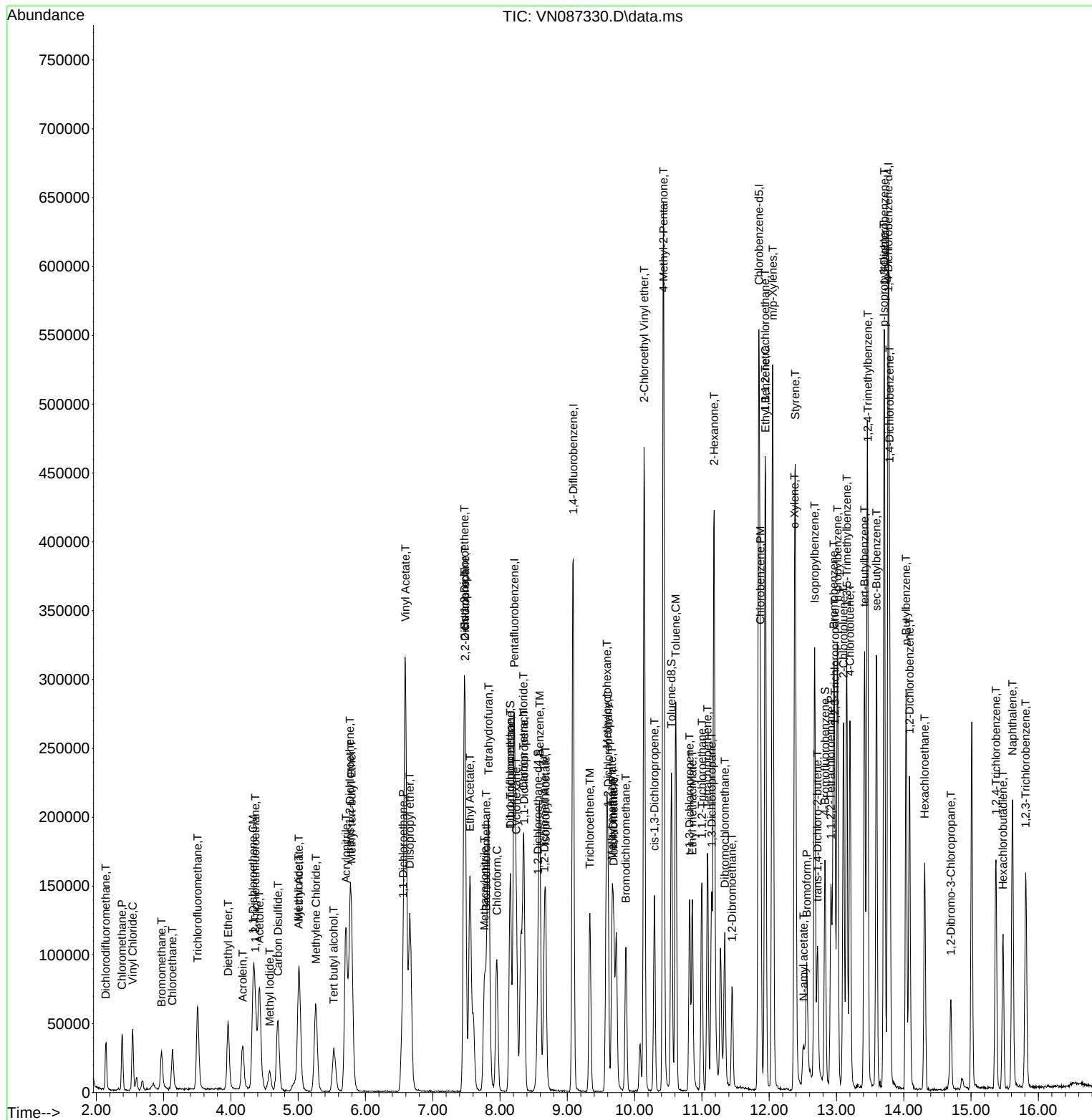
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Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN071625\  
Data File : VN087330.D  
Acq On    : 16 Jul 2025  17:49  
Operator  : JC\MD  
Sample    : VSTDIC020  
Misc      : 5.0mL/MSVOA_N/WATER  
ALS Vial  : 5      Sample Multiplier: 1
```

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations

Reviewed By :Mahesh Dadoda 07/17/2025
Supervised By :Semsettin Yesilyurt 07/17/2025

Quant Time: Jul 17 02:18:38 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N071625W.M
Quant Title : SW846 8260
QLast Update : Thu Jul 17 02:09:29 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN071625\
 Data File : VN087331.D
 Acq On : 16 Jul 2025 18:11
 Operator : JC\MD
 Sample : VSTDICCC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICCC050

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 07/17/2025
 Supervised By :Semsettin Yesilyurt 07/17/2025

Quant Time: Jul 17 02:19:33 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N071625W.M
 Quant Title : SW846 8260
 QLast Update : Thu Jul 17 02:09:29 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.212	168	182792	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.082	114	325711	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.847	117	300150	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.770	152	158477	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.565	65	146559	47.253	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	94.500%		
35) Dibromofluoromethane	8.147	113	108271	48.190	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	96.380%		
50) Toluene-d8	10.547	98	398776	49.757	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	99.520%		
62) 4-Bromofluorobenzene	12.829	95	148158	50.037	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	100.080%		
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	2.142	85	113853	58.643	ug/l	100
3) Chloromethane	2.383	50	126054	51.631	ug/l	100
4) Vinyl Chloride	2.542	62	132985	54.810	ug/l	100
5) Bromomethane	2.971	94	64982	51.719	ug/l	100
6) Chloroethane	3.130	64	80606	50.942	ug/l	100
7) Trichlorofluoromethane	3.506	101	187302	52.206	ug/l	100
8) Diethyl Ether	3.959	74	72151	51.843	ug/l	100
9) 1,1,2-Trichlorotrifluo...	4.359	101	95895	52.068	ug/l	100
10) Methyl Iodide	4.577	142	90277	47.912	ug/l	100
11) Tert butyl alcohol	5.524	59	146939	249.504	ug/l	100
12) 1,1-Dichloroethene	4.330	96	99569	47.708	ug/l	100
13) Acrolein	4.177	56	110711	234.247	ug/l	100
14) Allyl chloride	5.012	41	183089	48.475	ug/l	100
15) Acrylonitrile	5.712	53	414273	259.227	ug/l	100
16) Acetone	4.424	43	353373	240.328	ug/l	100
17) Carbon Disulfide	4.694	76	316833	51.205	ug/l	100
18) Methyl Acetate	5.012	43	181199	49.594	ug/l	100
19) Methyl tert-butyl Ether	5.788	73	396133	51.495	ug/l	100
20) Methylene Chloride	5.259	84	122921	50.001	ug/l	100
21) trans-1,2-Dichloroethene	5.771	96	119278	50.687	ug/l	100
22) Diisopropyl ether	6.665	45	417843	52.740	ug/l	100
23) Vinyl Acetate	6.588	43	1931809	278.796	ug/l	100
24) 1,1-Dichloroethane	6.553	63	223298	48.853	ug/l	100
25) 2-Butanone	7.471	43	588032	261.702	ug/l	100
26) 2,2-Dichloropropane	7.471	77	179431	50.492	ug/l	100
27) cis-1,2-Dichloroethene	7.471	96	140194	51.746	ug/l	100
28) Bromochloromethane	7.800	49	108748	49.713	ug/l	100
29) Tetrahydrofuran	7.829	42	388704	266.294	ug/l	100
30) Chloroform	7.953	83	233747	51.092	ug/l	100
31) Cyclohexane	8.241	56	191116	50.122	ug/l	100
32) 1,1,1-Trichloroethane	8.153	97	198135	50.002	ug/l	100
36) 1,1-Dichloropropene	8.353	75	158563	53.418	ug/l	100
37) Ethyl Acetate	7.547	43	230005	53.652	ug/l	100
38) Carbon Tetrachloride	8.347	117	168403	51.501	ug/l	100
39) Methylcyclohexane	9.582	83	172297	53.614	ug/l	100
40) Benzene	8.594	78	505723	52.714	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN071625\
 Data File : VN087331.D
 Acq On : 16 Jul 2025 18:11
 Operator : JC\MD
 Sample : VSTDICCC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICCC050

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 07/17/2025
 Supervised By :Semsettin Yesilyurt 07/17/2025

Quant Time: Jul 17 02:19:33 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N071625W.M
 Quant Title : SW846 8260
 QLast Update : Thu Jul 17 02:09:29 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.771	41	119895	53.486	ug/l	100
42) 1,2-Dichloroethane	8.653	62	184670	50.759	ug/l	100
43) Isopropyl Acetate	8.677	43	348709	52.399	ug/l	100
44) Trichloroethene	9.335	130	115974	51.160	ug/l	100
45) 1,2-Dichloropropane	9.606	63	128530	52.726	ug/l	100
46) Dibromomethane	9.688	93	94179	51.601	ug/l	100
47) Bromodichloromethane	9.871	83	185222	50.382	ug/l	100
48) Methyl methacrylate	9.665	41	164476	54.899	ug/l	100
49) 1,4-Dioxane	9.682	88	52072	1134.802	ug/l #	100
51) 4-Methyl-2-Pentanone	10.429	43	1122857	266.771	ug/l	100
52) Toluene	10.612	92	313806	53.814	ug/l	100
53) t-1,3-Dichloropropene	10.818	75	202129	54.327	ug/l	100
54) cis-1,3-Dichloropropene	10.294	75	205720	53.529	ug/l	100
55) 1,1,2-Trichloroethane	11.000	97	119612	50.666	ug/l	100
56) Ethyl methacrylate	10.859	69	204376	51.427	ug/l	100
57) 1,3-Dichloropropane	11.141	76	213343	52.267	ug/l	100
58) 2-Chloroethyl Vinyl ether	10.141	63	562790	290.607	ug/l	100
59) 2-Hexanone	11.182	43	806824	288.920	ug/l	100
60) Dibromochloromethane	11.341	129	139955	51.982	ug/l	100
61) 1,2-Dibromoethane	11.453	107	125416	50.525	ug/l	100
64) Tetrachloroethene	11.088	164	96176	49.786	ug/l	100
65) Chlorobenzene	11.870	112	335833	49.837	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.941	131	117833	51.425	ug/l	100
67) Ethyl Benzene	11.947	91	582851	52.540	ug/l	100
68) m/p-Xylenes	12.053	106	455017	109.536	ug/l	100
69) o-Xylene	12.376	106	217121	54.717	ug/l	100
70) Styrene	12.394	104	376745	56.440	ug/l	100
71) Bromoform	12.559	173	98549	53.237	ug/l #	100
73) Isopropylbenzene	12.676	105	538245	53.964	ug/l	100
74) N-amyl acetate	12.494	43	180343m	46.310	ug/l	
75) 1,1,2,2-Tetrachloroethane	12.917	83	191273	50.964	ug/l	100
76) 1,2,3-Trichloropropane	12.970	75	188824m	53.705	ug/l	
77) Bromobenzene	12.959	156	137669	53.221	ug/l	100
78) n-propylbenzene	13.017	91	680506	54.227	ug/l	100
79) 2-Chlorotoluene	13.106	91	401444	52.051	ug/l	100
80) 1,3,5-Trimethylbenzene	13.153	105	464063	54.607	ug/l	100
81) trans-1,4-Dichloro-2-b...	12.717	75	63993	49.271	ug/l	100
82) 4-Chlorotoluene	13.200	91	419474	52.240	ug/l	100
83) tert-Butylbenzene	13.417	119	383986	54.099	ug/l	100
84) 1,2,4-Trimethylbenzene	13.464	105	475982	54.846	ug/l	100
85) sec-Butylbenzene	13.594	105	565038	52.851	ug/l	100
86) p-Isopropyltoluene	13.706	119	473942	55.316	ug/l	100
87) 1,3-Dichlorobenzene	13.711	146	262675	51.740	ug/l	100
88) 1,4-Dichlorobenzene	13.788	146	269881	49.773	ug/l	100
89) n-Butylbenzene	14.035	91	437514	53.478	ug/l	100
90) Hexachloroethane	14.311	117	91313	50.301	ug/l	100
91) 1,2-Dichlorobenzene	14.082	146	249988	51.977	ug/l	100
92) 1,2-Dibromo-3-Chloropr...	14.700	75	47931	48.643	ug/l	100
93) 1,2,4-Trichlorobenzene	15.370	180	148472	52.553	ug/l	100
94) Hexachlorobutadiene	15.476	225	52130	49.659	ug/l	100
95) Naphthalene	15.617	128	545367	54.490	ug/l	100
96) 1,2,3-Trichlorobenzene	15.811	180	146080	51.547	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN071625\
Data File : VN087331.D
Acq On : 16 Jul 2025 18:11
Operator : JC\MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 07/17/2025
Supervised By :Semsettin Yesilyurt 07/17/2025

Quant Time: Jul 17 02:19:33 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N071625W.M
Quant Title : SW846 8260
QLast Update : Thu Jul 17 02:09:29 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
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(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN071625\
 Data File : VN087331.D
 Acq On : 16 Jul 2025 18:11
 Operator : JC\MD
 Sample : VSTDICCC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :

MSVOA_N

Client Sample Id :

VSTDICCC050

Manual Integrations

APPROVED

Reviewed By : Mahesh Dadoda 07/17/2025

Supervised By : Semsettin Yesilyurt 07/17/2025

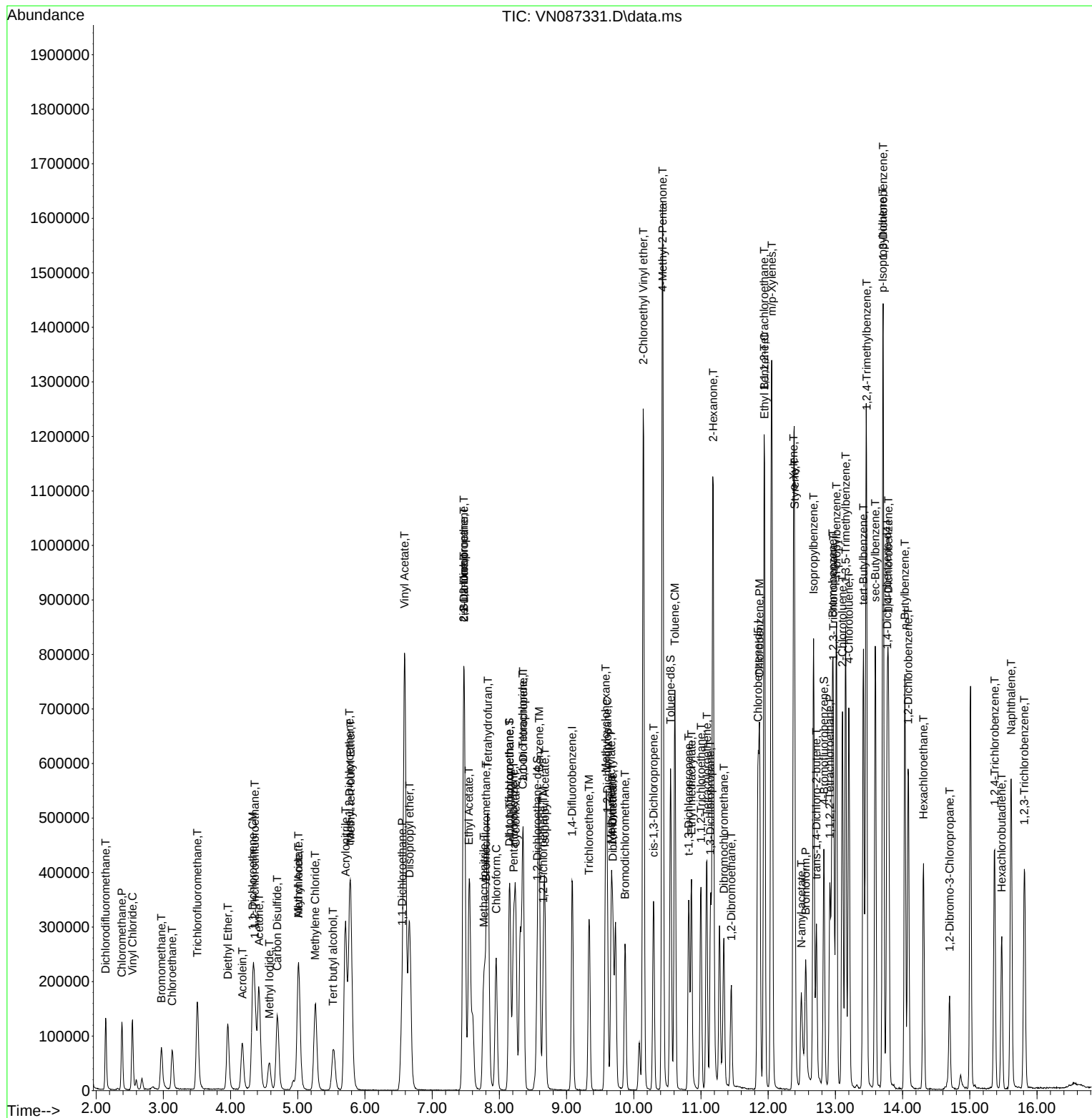
Quant Time: Jul 17 02:19:33 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N071625W.M

Quant Title : SW846 8260

QLast Update : Thu Jul 17 02:09:29 2025

Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN071625\
 Data File : VN087332.D
 Acq On : 16 Jul 2025 18:32
 Operator : JC\MD
 Sample : VSTDICC100
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC100

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 07/17/2025
 Supervised By :Semsettin Yesilyurt 07/17/2025

Quant Time: Jul 17 02:20:26 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N071625W.M
 Quant Title : SW846 8260
 QLast Update : Thu Jul 17 02:09:29 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.212	168	192275	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.088	114	339591	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.847	117	314849	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.770	152	168489	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.559	65	314416	96.373	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	= 192.740%#	
35) Dibromofluoromethane	8.153	113	236468	100.947	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 201.900%#	
50) Toluene-d8	10.547	98	852301	101.999	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	= 204.000%#	
62) 4-Bromofluorobenzene	12.829	95	323070	104.650	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	= 209.300%#	

Target Compounds					Qvalue	
2) Dichlorodifluoromethane	2.142	85	233197	114.190	ug/l	92
3) Chloromethane	2.383	50	253369	98.660	ug/l	98
4) Vinyl Chloride	2.542	62	266221	104.312	ug/l	94
5) Bromomethane	2.959	94	136793	103.503	ug/l	96
6) Chloroethane	3.124	64	159422	95.783	ug/l	92
7) Trichlorofluoromethane	3.501	101	369032	97.786	ug/l	98
8) Diethyl Ether	3.959	74	142652	97.445	ug/l	97
9) 1,1,2-Trichlorotrifluo...	4.353	101	188841	97.477	ug/l	100
10) Methyl Iodide	4.571	142	213127	100.524	ug/l	99
11) Tert butyl alcohol	5.536	59	309615	499.800	ug/l	99
12) 1,1-Dichloroethene	4.336	96	197760	90.083	ug/l	95
13) Acrolein	4.177	56	250115	503.102	ug/l	99
14) Allyl chloride	5.006	41	382812	96.355	ug/l	100
15) Acrylonitrile	5.706	53	839080	499.150	ug/l	100
16) Acetone	4.424	43	693485	448.375	ug/l	96
17) Carbon Disulfide	4.695	76	631695	97.056	ug/l	95
18) Methyl Acetate	5.012	43	369894	96.247	ug/l	99
19) Methyl tert-butyl Ether	5.789	73	818763	101.186	ug/l	98
20) Methylene Chloride	5.259	84	251830	98.001	ug/l	97
21) trans-1,2-Dichloroethene	5.771	96	237704	96.030	ug/l	94
22) Diisopropyl ether	6.659	45	832709	99.921	ug/l	96
23) Vinyl Acetate	6.594	43	3859420	529.516	ug/l	97
24) 1,1-Dichloroethane	6.553	63	455820	94.807	ug/l	100
25) 2-Butanone	7.471	43	1185700	501.667	ug/l	98
26) 2,2-Dichloropropane	7.477	77	358596	95.932	ug/l	99
27) cis-1,2-Dichloroethene	7.477	96	284578	99.858	ug/l	98
28) Bromochloromethane	7.800	49	229544	99.757	ug/l	100
29) Tetrahydrofuran	7.830	42	768521	500.532	ug/l	98
30) Chloroform	7.953	83	466838	97.008	ug/l	99
31) Cyclohexane	8.241	56	377159	94.035	ug/l	95
32) 1,1,1-Trichloroethane	8.153	97	403445	96.794	ug/l	97
36) 1,1-Dichloropropene	8.353	75	324047	104.705	ug/l	99
37) Ethyl Acetate	7.547	43	448428	100.326	ug/l	99
38) Carbon Tetrachloride	8.347	117	342043	100.328	ug/l	99
39) Methylcyclohexane	9.582	83	352211	105.118	ug/l	96
40) Benzene	8.588	78	1007257	100.700	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN071625\
 Data File : VN087332.D
 Acq On : 16 Jul 2025 18:32
 Operator : JC\MD
 Sample : VSTDICC100
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC100

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 07/17/2025
 Supervised By :Semsettin Yesilyurt 07/17/2025

Quant Time: Jul 17 02:20:26 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N071625W.M
 Quant Title : SW846 8260
 QLast Update : Thu Jul 17 02:09:29 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.765	41	239659	102.544	ug/l	99
42) 1,2-Dichloroethane	8.653	62	369731	97.472	ug/l	99
43) Isopropyl Acetate	8.677	43	704936	101.598	ug/l	99
44) Trichloroethene	9.335	130	230373	97.472	ug/l	93
45) 1,2-Dichloropropane	9.606	63	255369	100.478	ug/l	96
46) Dibromomethane	9.694	93	185908	97.696	ug/l	98
47) Bromodichloromethane	9.871	83	375910	98.072	ug/l	97
48) Methyl methacrylate	9.665	41	334941	107.228	ug/l	97
49) 1,4-Dioxane	9.688	88	102159	2135.348	ug/l #	95
51) 4-Methyl-2-Pentanone	10.429	43	2234274	509.127	ug/l	100
52) Toluene	10.612	92	622259	102.349	ug/l	97
53) t-1,3-Dichloropropene	10.818	75	412142	106.245	ug/l	100
54) cis-1,3-Dichloropropene	10.294	75	421386	105.164	ug/l	98
55) 1,1,2-Trichloroethane	11.000	97	242683	98.595	ug/l	97
56) Ethyl methacrylate	10.859	69	425458	98.980	ug/l	98
57) 1,3-Dichloropropane	11.147	76	431753	101.453	ug/l	100
58) 2-Chloroethyl Vinyl ether	10.141	63	1052628	521.327	ug/l	99
59) 2-Hexanone	11.176	43	1631949	560.508	ug/l	99
60) Dibromochloromethane	11.341	129	287682	102.484	ug/l	99
61) 1,2-Dibromoethane	11.453	107	258936	100.051	ug/l	98
64) Tetrachloroethene	11.082	164	195044	96.252	ug/l	97
65) Chlorobenzene	11.871	112	687696	97.289	ug/l	97
66) 1,1,1,2-Tetrachloroethane	11.941	131	239722	99.736	ug/l	99
67) Ethyl Benzene	11.947	91	1199510	103.080	ug/l	99
68) m/p-Xylenes	12.053	106	924069	212.065	ug/l	99
69) o-Xylene	12.376	106	447092	107.413	ug/l	100
70) Styrene	12.394	104	766471	109.464	ug/l	98
71) Bromoform	12.559	173	202915	104.498	ug/l #	99
73) Isopropylbenzene	12.676	105	1112821	104.940	ug/l	100
74) N-amyl acetate	12.482	43	464246	112.129	ug/l	94
75) 1,1,2,2-Tetrachloroethane	12.918	83	389392	97.587	ug/l	98
76) 1,2,3-Trichloropropane	12.970	75	326434m	87.327	ug/l	
77) Bromobenzene	12.959	156	279589	101.662	ug/l	100
78) n-propylbenzene	13.018	91	1384517	103.771	ug/l	99
79) 2-Chlorotoluene	13.106	91	840073	102.452	ug/l	98
80) 1,3,5-Trimethylbenzene	13.153	105	943119	104.383	ug/l	100
81) trans-1,4-Dichloro-2-b...	12.718	75	140673	101.874	ug/l	96
82) 4-Chlorotoluene	13.200	91	859965	100.734	ug/l	99
83) tert-Butylbenzene	13.418	119	800700	106.106	ug/l	99
84) 1,2,4-Trimethylbenzene	13.459	105	967878	104.898	ug/l	100
85) sec-Butylbenzene	13.594	105	1141320	100.410	ug/l	98
86) p-Isopropyltoluene	13.706	119	975014	107.037	ug/l	99
87) 1,3-Dichlorobenzene	13.712	146	535172	99.151	ug/l	100
88) 1,4-Dichlorobenzene	13.788	146	548212	95.097	ug/l	99
89) n-Butylbenzene	14.035	91	880763	101.260	ug/l	99
90) Hexachloroethane	14.312	117	185973	96.358	ug/l	98
91) 1,2-Dichlorobenzene	14.082	146	508902	99.523	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	14.700	75	97572	93.137	ug/l	94
93) 1,2,4-Trichlorobenzene	15.364	180	310448	103.357	ug/l	99
94) Hexachlorobutadiene	15.476	225	106429	95.360	ug/l	98
95) Naphthalene	15.611	128	1162930	109.289	ug/l	99
96) 1,2,3-Trichlorobenzene	15.811	180	308888	102.519	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN071625\
Data File : VN087332.D
Acq On : 16 Jul 2025 18:32
Operator : JC\MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 07/17/2025
Supervised By :Semsettin Yesilyurt 07/17/2025

Quant Time: Jul 17 02:20:26 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N071625W.M
Quant Title : SW846 8260
QLast Update : Thu Jul 17 02:09:29 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
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(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN071625\
 Data File : VN087332.D
 Acq On : 16 Jul 2025 18:32
 Operator : JC\MD
 Sample : VSTDICC100
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :

MSVOA_N

Client Sample Id :

VSTDICC100

Manual Integrations

APPROVED

Reviewed By : Mahesh Dadoda 07/17/2025

Supervised By : Semsettin Yesilyurt 07/17/2025

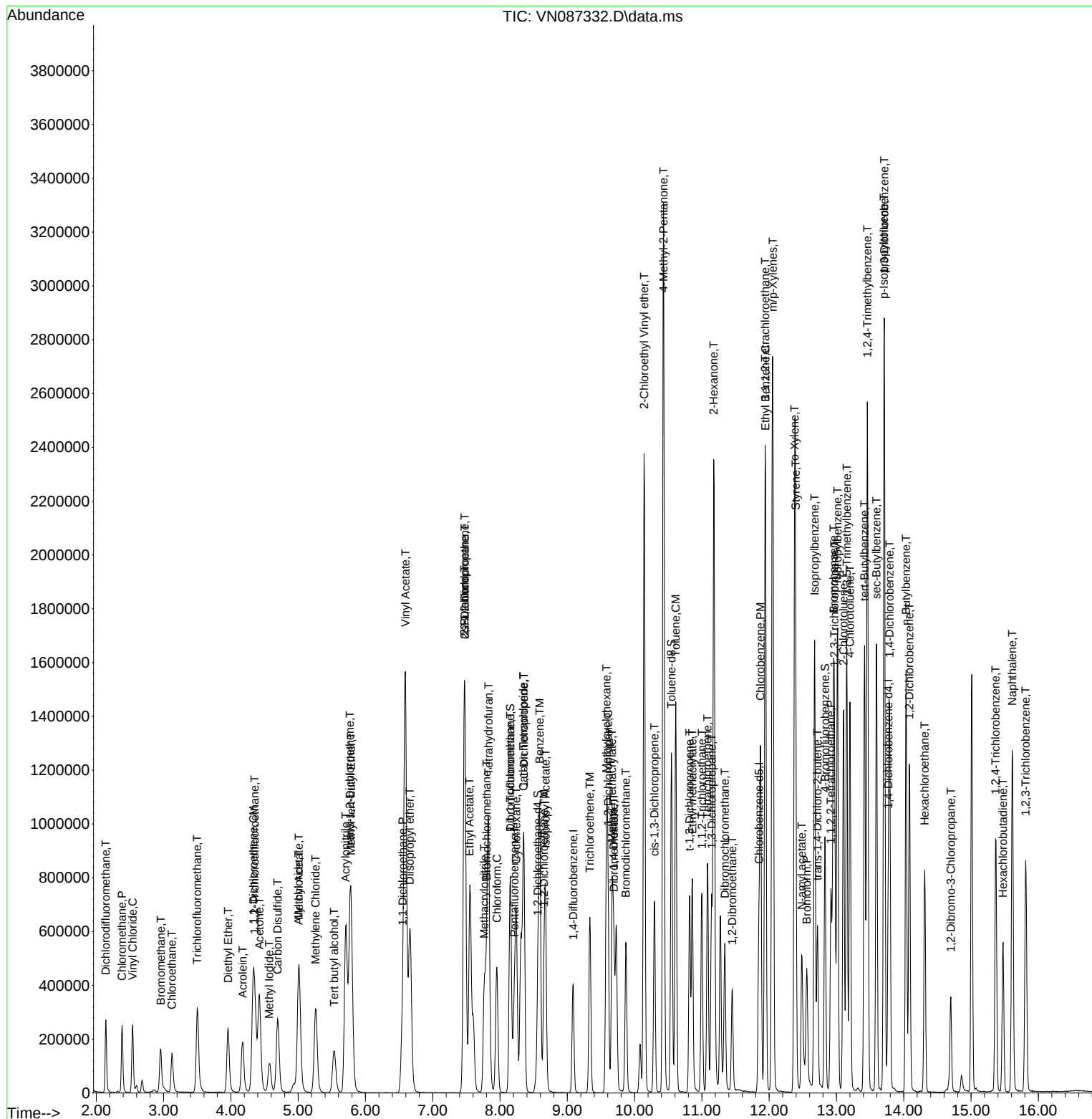
Quant Time: Jul 17 02:20:26 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N071625W.M

Quant Title : SW846 8260

QLast Update : Thu Jul 17 02:09:29 2025

Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN071625\
 Data File : VN087333.D
 Acq On : 16 Jul 2025 18:54
 Operator : JC\MD
 Sample : VSTDICC150
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC150

Manual Integrations
 APPROVED

Reviewed By : Mahesh Dadoda 07/17/2025
 Supervised By : Semsettin Yesilyurt 07/17/2025

Quant Time: Jul 17 02:21:25 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N071625W.M
 Quant Title : SW846 8260
 QLast Update : Thu Jul 17 02:09:29 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.206	168	193853	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.083	114	344966	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.847	117	317026	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.771	152	165077	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.565	65	501760	152.545	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 305.080%#			
35) Dibromofluoromethane	8.153	113	368306	154.778	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 309.560%#			
50) Toluene-d8	10.547	98	1362098	160.469	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 320.940%#			
62) 4-Bromofluorobenzene	12.829	95	522221	166.525	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 333.040%#			
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	2.142	85	363327	176.463	ug/l	95
3) Chloromethane	2.383	50	405800	156.728	ug/l	99
4) Vinyl Chloride	2.542	62	418507	162.646	ug/l	94
5) Bromomethane	2.942	94	215335	161.604	ug/l	95
6) Chloroethane	3.118	64	249466	148.663	ug/l	100
7) Trichlorofluoromethane	3.501	101	585457	153.872	ug/l	97
8) Diethyl Ether	3.959	74	228544	154.847	ug/l	99
9) 1,1,2-Trichlorotrifluo...	4.353	101	296076	151.587	ug/l	99
10) Methyl Iodide	4.571	142	328079	150.516	ug/l	99
11) Tert butyl alcohol	5.536	59	478279	765.784	ug/l	100
12) 1,1-Dichloroethene	4.330	96	312325	141.111	ug/l	97
13) Acrolein	4.177	56	415488	828.945	ug/l	100
14) Allyl chloride	5.006	41	663403	165.621	ug/l	91
15) Acrylonitrile	5.706	53	1279363	754.869	ug/l	100
16) Acetone	4.424	43	1064061	682.373	ug/l	96
17) Carbon Disulfide	4.695	76	1011315	154.118	ug/l	95
18) Methyl Acetate	5.012	43	577536	149.052	ug/l	99
19) Methyl tert-butyl Ether	5.789	73	1286728	157.724	ug/l	95
20) Methylene Chloride	5.259	84	390988	151.266	ug/l	94
21) trans-1,2-Dichloroethene	5.765	96	356549	142.870	ug/l	96
22) Diisopropyl ether	6.659	45	1280267	152.375	ug/l	99
23) Vinyl Acetate	6.589	43	5943020	808.750	ug/l	98
24) 1,1-Dichloroethane	6.553	63	704727	145.384	ug/l	98
25) 2-Butanone	7.477	43	1797146	754.179	ug/l	98
26) 2,2-Dichloropropane	7.477	77	547190	145.193	ug/l	100
27) cis-1,2-Dichloroethene	7.471	96	437021	152.102	ug/l	99
28) Bromochloromethane	7.800	49	339529	146.355	ug/l	100
29) Tetrahydrofuran	7.830	42	1166702	753.679	ug/l	98
30) Chloroform	7.953	83	717424	147.865	ug/l	98
31) Cyclohexane	8.241	56	582988	144.170	ug/l	94
32) 1,1,1-Trichloroethane	8.153	97	630986	150.152	ug/l	98
36) 1,1-Dichloropropene	8.353	75	503793	160.248	ug/l	99
37) Ethyl Acetate	7.553	43	692256	152.464	ug/l	98
38) Carbon Tetrachloride	8.347	117	535575	154.647	ug/l	98
39) Methylcyclohexane	9.583	83	559851	164.485	ug/l	98
40) Benzene	8.588	78	1550984	152.642	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN071625\
 Data File : VN087333.D
 Acq On : 16 Jul 2025 18:54
 Operator : JC\MD
 Sample : VSTDICC150
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC150

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 07/17/2025
 Supervised By :Semsettin Yesilyurt 07/17/2025

Quant Time: Jul 17 02:21:25 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N071625W.M
 Quant Title : SW846 8260
 QLast Update : Thu Jul 17 02:09:29 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.765	41	375482	158.156	ug/l	99
42) 1,2-Dichloroethane	8.653	62	571634	148.352	ug/l	100
43) Isopropyl Acetate	8.677	43	1091736	154.893	ug/l	99
44) Trichloroethene	9.335	130	364760	151.927	ug/l	96
45) 1,2-Dichloropropane	9.606	63	391676	151.708	ug/l	97
46) Dibromomethane	9.694	93	287252	148.602	ug/l	98
47) Bromodichloromethane	9.871	83	584546	150.128	ug/l	99
48) Methyl methacrylate	9.665	41	520990	164.191	ug/l	99
49) 1,4-Dioxane	9.688	88	157400	3238.745	ug/l #	93
51) 4-Methyl-2-Pentanone	10.430	43	3375607	757.219	ug/l	99
52) Toluene	10.612	92	961314	155.654	ug/l	99
53) t-1,3-Dichloropropene	10.818	75	640188	162.462	ug/l	94
54) cis-1,3-Dichloropropene	10.294	75	654301	160.747	ug/l	96
55) 1,1,2-Trichloroethane	11.000	97	365858	146.322	ug/l	99
56) Ethyl methacrylate	10.859	69	679202	150.296	ug/l	96
57) 1,3-Dichloropropane	11.147	76	662154	153.168	ug/l	99
58) 2-Chloroethyl Vinyl ether	10.141	63	1717427	837.324	ug/l	100
59) 2-Hexanone	11.177	43	2477578	837.689	ug/l	98
60) Dibromochloromethane	11.341	129	448307	157.217	ug/l	99
61) 1,2-Dibromoethane	11.453	107	402978	153.282	ug/l	97
64) Tetrachloroethene	11.082	164	301404	147.718	ug/l	97
65) Chlorobenzene	11.871	112	1066757	149.878	ug/l	97
66) 1,1,1,2-Tetrachloroethane	11.941	131	375162	155.013	ug/l	98
67) Ethyl Benzene	11.941	91	1881920	160.613	ug/l	99
68) m/p-Xylenes	12.053	106	1437290	327.579	ug/l	98
69) o-Xylene	12.376	106	698363	166.628	ug/l	98
70) Styrene	12.394	104	1195068	169.502	ug/l	99
71) Bromoform	12.559	173	320960	164.154	ug/l #	99
73) Isopropylbenzene	12.676	105	1747567	168.203	ug/l	100
74) N-amyl acetate	12.482	43	750104	184.917	ug/l	91
75) 1,1,2,2-Tetrachloroethane	12.918	83	581568	148.761	ug/l	100
76) 1,2,3-Trichloropropane	12.971	75	504791m	137.832	ug/l	
77) Bromobenzene	12.959	156	433814	161.001	ug/l	99
78) n-propylbenzene	13.018	91	2127215	162.733	ug/l	100
79) 2-Chlorotoluene	13.106	91	1290205	160.600	ug/l	98
80) 1,3,5-Trimethylbenzene	13.153	105	1465159	165.514	ug/l	100
81) trans-1,4-Dichloro-2-b...	12.718	75	224191	165.713	ug/l	95
82) 4-Chlorotoluene	13.200	91	1336462	159.785	ug/l	100
83) tert-Butylbenzene	13.418	119	1230683	166.457	ug/l	98
84) 1,2,4-Trimethylbenzene	13.459	105	1502651	166.222	ug/l	100
85) sec-Butylbenzene	13.594	105	1767949	158.754	ug/l	99
86) p-Isopropyltoluene	13.706	119	1501303	168.219	ug/l	98
87) 1,3-Dichlorobenzene	13.712	146	828885	156.742	ug/l	99
88) 1,4-Dichlorobenzene	13.788	146	830255	147.000	ug/l	99
89) n-Butylbenzene	14.035	91	1367813	160.505	ug/l	98
90) Hexachloroethane	14.312	117	292183	154.518	ug/l	97
91) 1,2-Dichlorobenzene	14.082	146	784106	156.513	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	14.694	75	151090	147.203	ug/l	93
93) 1,2,4-Trichlorobenzene	15.370	180	492237	167.266	ug/l	99
94) Hexachlorobutadiene	15.476	225	163922	149.909	ug/l	99
95) Naphthalene	15.612	128	1880423	180.370	ug/l	99
96) 1,2,3-Trichlorobenzene	15.812	180	491195	166.396	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN071625\
Data File : VN087333.D
Acq On : 16 Jul 2025 18:54
Operator : JC\MD
Sample : VSTDICC150
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 07/17/2025
Supervised By :Semsettin Yesilyurt 07/17/2025

Quant Time: Jul 17 02:21:25 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N071625W.M
Quant Title : SW846 8260
QLast Update : Thu Jul 17 02:09:29 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
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(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN071625\
 Data File : VN087333.D
 Acq On : 16 Jul 2025 18:54
 Operator : JC\MD
 Sample : VSTDIC150
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :

MSVOA_N

Client Sample Id :

VSTDIC150

Manual Integrations

APPROVED

Reviewed By : Mahesh Dadoda 07/17/2025

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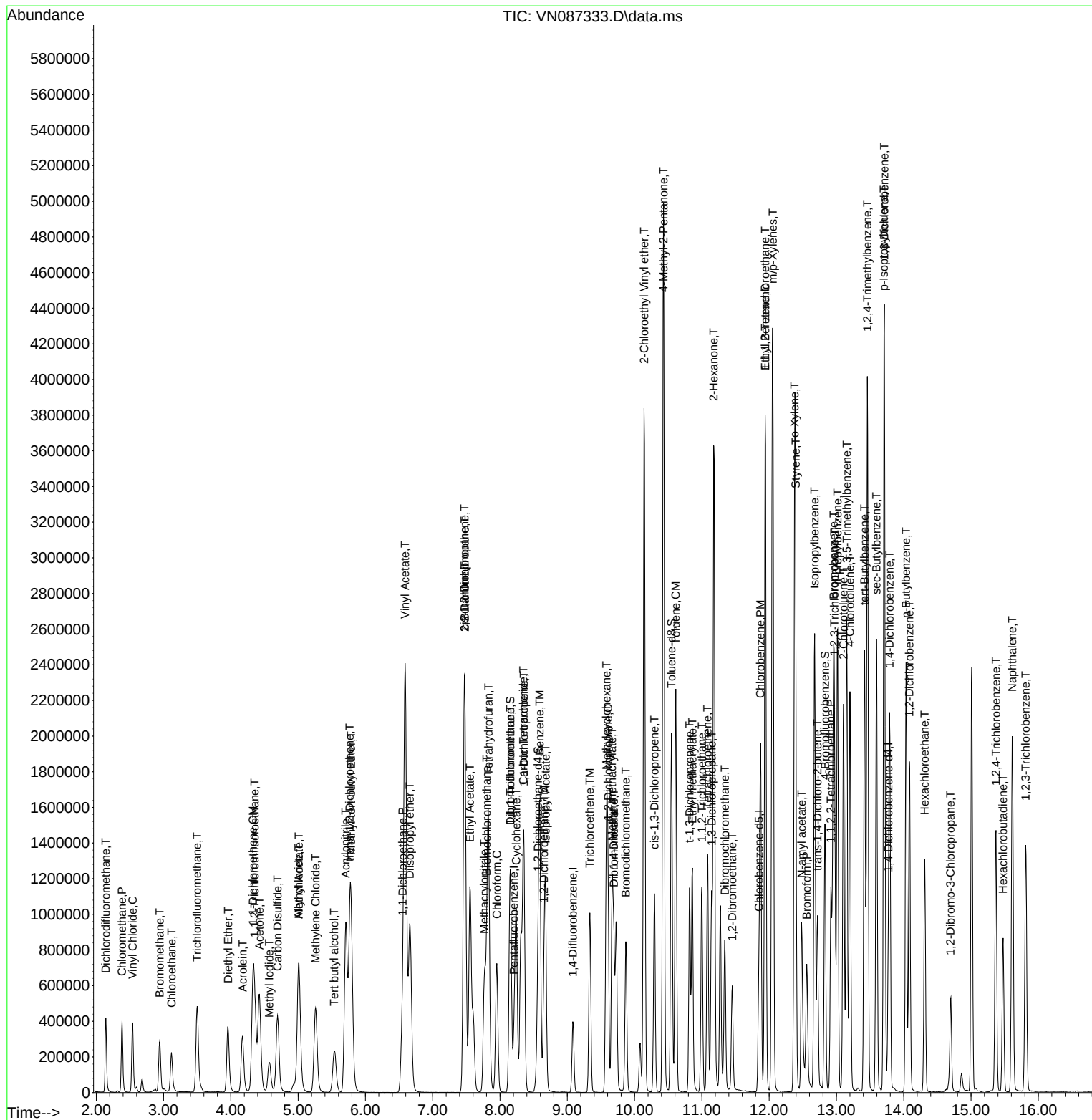
Quant Time: Jul 17 02:21:25 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N071625W.M

Quant Title : SW846 8260

QLast Update : Thu Jul 17 02:09:29 2025

Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN071625\
 Data File : VN087335.D
 Acq On : 16 Jul 2025 19:59
 Operator : JC\MD
 Sample : VSTDICV050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 ICVVN071625

Quant Time: Jul 17 03:00:24 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N071625W.M
 Quant Title : SW846 8260
 QLast Update : Thu Jul 17 02:56:13 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 07/17/2025
 Supervised By :Semsettin Yesilyurt 07/17/2025

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

Internal Standards						
1) Pentafluorobenzene	8.212	168	198299	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.082	114	343165	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.847	117	319692	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.770	152	166959	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.565	65	162194	48.204	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	96.400%		
35) Dibromofluoromethane	8.153	113	118201	49.934	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	99.860%		
50) Toluene-d8	10.547	98	435474	51.573	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	103.140%		
62) 4-Bromofluorobenzene	12.829	95	165160	52.942	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	105.880%		
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.142	85	122218	58.029	ug/l	94
3) Chloromethane	2.383	50	135040	50.986	ug/l	99
4) Vinyl Chloride	2.542	62	141054	53.589	ug/l	93
5) Bromomethane	2.971	94	79496	58.322	ug/l	100
6) Chloroethane	3.130	64	84406	49.172	ug/l	97
7) Trichlorofluoromethane	3.506	101	192022	49.336	ug/l	93
8) Diethyl Ether	3.959	74	76789	50.861	ug/l	98
9) 1,1,2-Trichlorotrifluo...	4.365	101	98940	49.520	ug/l	99
10) Methyl Iodide	4.577	142	103627	50.369	ug/l	98
11) Tert butyl alcohol	5.530	59	167953	262.884	ug/l	99
12) 1,1-Dichloroethene	4.330	96	102861	45.432	ug/l	97
13) Acrolein	4.171	56	142098	277.145	ug/l	97
14) Allyl chloride	5.006	41	200790	49.004	ug/l	99
15) Acrylonitrile	5.706	53	437956	252.616	ug/l	99
16) Acetone	4.424	43	375335	237.913	ug/l	100
17) Carbon Disulfide	4.700	76	335264	49.947	ug/l	96
18) Methyl Acetate	5.018	43	194657	49.111	ug/l	99
19) Methyl tert-butyl Ether	5.789	73	425099	50.939	ug/l	94
20) Methylene Chloride	5.265	84	131885	49.445	ug/l	93
21) trans-1,2-Dichloroethene	5.771	96	120707	47.283	ug/l	97
22) Diisopropyl ether	6.659	45	439978	51.191	ug/l	97
23) Vinyl Acetate	6.594	43	2052885	273.101	ug/l	98
24) 1,1-Dichloroethane	6.553	63	238854	48.170	ug/l	99
25) 2-Butanone	7.477	43	622581	255.411	ug/l	98
26) 2,2-Dichloropropane	7.477	77	176180	45.700	ug/l	100
27) cis-1,2-Dichloroethene	7.471	96	148552	50.543	ug/l	96
28) Bromochloromethane	7.800	49	116494	49.089	ug/l	98
29) Tetrahydrofuran	7.830	42	412353	260.404	ug/l	100
30) Chloroform	7.947	83	239752	48.306	ug/l	100
31) Cyclohexane	8.241	56	202863	49.042	ug/l	96
32) 1,1,1-Trichloroethane	8.153	97	212405	49.412	ug/l	99
36) 1,1-Dichloropropene	8.353	75	167912	53.690	ug/l	99
37) Ethyl Acetate	7.553	43	241759	53.525	ug/l	99
38) Carbon Tetrachloride	8.347	117	181974	52.821	ug/l	90
39) Methylcyclohexane	9.582	83	179820	53.109	ug/l	96
40) Benzene	8.588	78	529446	52.380	ug/l	96

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN071625\
 Data File : VN087335.D
 Acq On : 16 Jul 2025 19:59
 Operator : JC\MD
 Sample : VSTDICV050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :

MSVOA_N

ClientSampleId :

ICVVN071625

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 07/17/2025

Supervised By :Semsettin Yesilyurt 07/17/2025

Quant Time: Jul 17 03:00:24 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N071625W.M

Quant Title : SW846 8260

QLast Update : Thu Jul 17 02:56:13 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.765	41	127286	53.895	ug/l	98
42) 1,2-Dichloroethane	8.653	62	194804	50.821	ug/l	98
43) Isopropyl Acetate	8.677	43	374957	53.477	ug/l	100
44) Trichloroethene	9.335	130	118775	49.731	ug/l	95
45) 1,2-Dichloropropane	9.606	63	135864	52.900	ug/l	99
46) Dibromomethane	9.688	93	98534	51.241	ug/l	98
47) Bromodichloromethane	9.871	83	200236	51.696	ug/l	97
48) Methyl methacrylate	9.665	41	177068	56.096	ug/l	99
49) 1,4-Dioxane	9.682	88	56917	1177.300	ug/l #	97
51) 4-Methyl-2-Pentanone	10.429	43	1192765	268.966	ug/l	99
52) Toluene	10.612	92	320922	52.236	ug/l	97
53) t-1,3-Dichloropropene	10.818	75	214141	54.628	ug/l	97
54) cis-1,3-Dichloropropene	10.294	75	216023	53.351	ug/l	96
55) 1,1,2-Trichloroethane	11.000	97	124090	49.889	ug/l	97
56) Ethyl methacrylate	10.859	69	222410	53.042	ug/l	98
57) 1,3-Dichloropropane	11.147	76	224493	52.202	ug/l	99
58) 2-Chloroethyl Vinyl ether	10.141	63	581689	285.088	ug/l	99
59) 2-Hexanone	11.176	43	849057	288.579	ug/l	100
60) Dibromochloromethane	11.341	129	149449	52.685	ug/l	100
61) 1,2-Dibromoethane	11.447	107	135330	51.746	ug/l	94
64) Tetrachloroethene	11.082	164	98391	47.819	ug/l	97
65) Chlorobenzene	11.870	112	347934	48.477	ug/l	98
66) 1,1,1,2-Tetrachloroethane	11.941	131	123321	50.530	ug/l	99
67) Ethyl Benzene	11.947	91	608779	51.523	ug/l	99
68) m/p-Xylenes	12.053	106	465762	105.269	ug/l	97
69) o-Xylene	12.376	106	224934	53.221	ug/l	99
70) Styrene	12.394	104	387319	54.477	ug/l	98
71) Bromoform	12.559	173	102502	51.987	ug/l #	99
73) Isopropylbenzene	12.676	105	573938	54.619	ug/l	100
74) N-amyl acetate	12.494	43	218170m	49.972	ug/l	
75) 1,1,2,2-Tetrachloroethane	12.917	83	203947	51.580	ug/l	98
76) 1,2,3-Trichloropropane	12.976	75	175797m	46.955	ug/l	
77) Bromobenzene	12.959	156	142714	52.368	ug/l	99
78) n-propylbenzene	13.012	91	709437	53.661	ug/l	99
79) 2-Chlorotoluene	13.106	91	426373	52.475	ug/l	99
80) 1,3,5-Trimethylbenzene	13.153	105	484100	54.071	ug/l	99
81) trans-1,4-Dichloro-2-b...	12.717	75	69894	51.080	ug/l	97
82) 4-Chlorotoluene	13.200	91	443817	52.464	ug/l	99
83) tert-Butylbenzene	13.417	119	413882	55.349	ug/l	98
84) 1,2,4-Trimethylbenzene	13.459	105	500792	54.773	ug/l	99
85) sec-Butylbenzene	13.594	105	594712	52.800	ug/l	98
86) p-Isopropyltoluene	13.706	119	496291	54.982	ug/l	99
87) 1,3-Dichlorobenzene	13.712	146	277102	51.809	ug/l	99
88) 1,4-Dichlorobenzene	13.788	146	282084	49.381	ug/l	99
89) n-Butylbenzene	14.035	91	458964	53.250	ug/l	99
90) Hexachloroethane	14.312	117	93464	48.870	ug/l	95
91) 1,2-Dichlorobenzene	14.088	146	260874	51.485	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	14.700	75	50904	49.035	ug/l	97
93) 1,2,4-Trichlorobenzene	15.370	180	155818	52.351	ug/l	99
94) Hexachlorobutadiene	15.476	225	55599	50.273	ug/l	98
95) Naphthalene	15.617	128	586097	55.585	ug/l	98
96) 1,2,3-Trichlorobenzene	15.811	180	157909	52.890	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN071625\
Data File : VN087335.D
Acq On : 16 Jul 2025 19:59
Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
ICVVN071625

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 07/17/2025
Supervised By :Semsettin Yesilyurt 07/17/2025

Quant Time: Jul 17 03:00:24 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N071625W.M
Quant Title : SW846 8260
QLast Update : Thu Jul 17 02:56:13 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
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(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN071625\
 Data File : VN087335.D
 Acq On : 16 Jul 2025 19:59
 Operator : JC\MD
 Sample : VSTDICV050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :

MSVOA_N

ClientSampleId :

ICVVN071625

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 07/17/2025

Supervised By :Semsettin Yesilyurt 07/17/2025

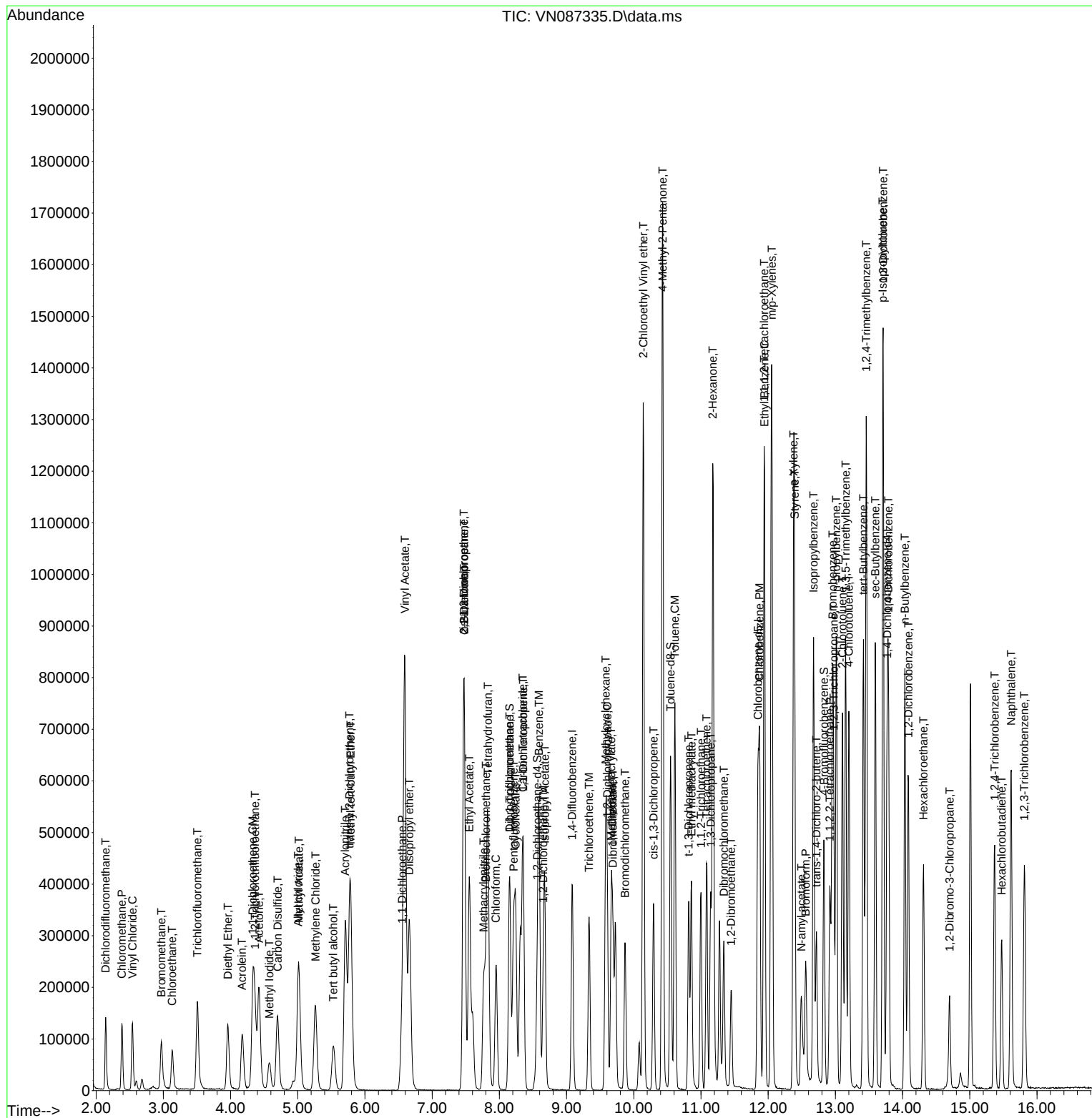
Quant Time: Jul 17 03:00:24 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N071625W.M

Quant Title : SW846 8260

QLast Update : Thu Jul 17 02:56:13 2025

Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN071625\
 Data File : VN087335.D
 Acq On : 16 Jul 2025 19:59
 Operator : JC\MD
 Sample : VSTDICV050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 ICVVN071625

Quant Time: Jul 17 03:00:24 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N071625W.M
 Quant Title : SW846 8260
 QLast Update : Thu Jul 17 02:56:13 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	108	0.00
2 T	Dichlorodifluoromethane	0.531	0.616	-16.0	107	0.00
3 P	Chloromethane	0.668	0.681	-1.9	107	0.00
4 C	Vinyl Chloride	0.664	0.711	-7.1#	106	0.00
5 T	Bromomethane	0.344	0.401	-16.6	122	0.00
6 T	Chloroethane	0.433	0.426	1.6	105	0.00
7 T	Trichlorofluoromethane	0.981	0.968	1.3	103	0.00
8 T	Diethyl Ether	0.381	0.387	-1.6	106	0.00
9 T	1,1,2-Trichlorotrifluoroeth	0.504	0.499	1.0	103	0.00
10 T	Methyl Iodide	0.452	0.523	-15.7	115	0.00
11 T	Tert butyl alcohol	0.161	0.169	-5.0	114	0.00
12 CM	1,1-Dichloroethene	0.571	0.519	9.1#	103	0.00
13 T	Acrolein	0.129	0.143	-10.9	128	0.00
14 T	Allyl chloride	1.033	1.013	1.9	110	0.00
15 T	Acrylonitrile	0.437	0.442	-1.1	106	0.00
16 T	Acetone	0.398	0.379	4.8	106	0.00
17 T	Carbon Disulfide	1.693	1.691	0.1	106	0.00
18 T	Methyl Acetate	0.999	0.982	1.7	107	0.00
19 T	Methyl tert-butyl Ether	2.104	2.144	-1.9	107	0.00
20 T	Methylene Chloride	0.766	0.665	13.2	107	0.00
21 T	trans-1,2-Dichloroethene	0.644	0.609	5.4	101	0.00
22 T	Diisopropyl ether	2.167	2.219	-2.4	105	0.00
23 T	Vinyl Acetate	1.895	2.070	-9.2	106	0.00
24 P	1,1-Dichloroethane	1.250	1.205	3.6	107	0.00
25 T	2-Butanone	0.615	0.628	-2.1	106	0.00
26 T	2,2-Dichloropropane	0.972	0.888	8.6	98	0.00
27 T	cis-1,2-Dichloroethene	0.741	0.749	-1.1	106	0.00
28 T	Bromochloromethane	0.598	0.587	1.8	107	0.00
29 T	Tetrahydrofuran	0.399	0.416	-4.3	106	0.00
30 C	Chloroform	1.251	1.209	3.4#	103	0.00
31 T	Cyclohexane	1.043	1.023	1.9	106	0.00
32 T	1,1,1-Trichloroethane	1.084	1.071	1.2	107	0.00
33 S	1,2-Dichloroethane-d4	0.848	0.818	3.5	111	0.00
34 I	1,4-Difluorobenzene	1.000	1.000	0.0	105	0.00
35 S	Dibromofluoromethane	0.345	0.344	0.3	109	0.00
36 T	1,1-Dichloropropene	0.456	0.489	-7.2	106	0.00
37 T	Ethyl Acetate	0.658	0.704	-7.0	105	0.00
38 T	Carbon Tetrachloride	0.502	0.530	-5.6	108	0.00
39 T	Methylcyclohexane	0.493	0.524	-6.3	104	0.00
40 TM	Benzene	1.473	1.543	-4.8	105	0.00
41 T	Methacrylonitrile	0.344	0.371	-7.8	106	0.00
42 TM	1,2-Dichloroethane	0.558	0.568	-1.8	105	0.00
43 T	Isopropyl Acetate	1.022	1.093	-6.9	108	0.00
44 TM	Trichloroethene	0.348	0.346	0.6	102	0.00
45 C	1,2-Dichloropropane	0.374	0.396	-5.9#	106	0.00
46 T	Dibromomethane	0.280	0.287	-2.5	105	0.00
47 T	Bromodichloromethane	0.564	0.583	-3.4	108	0.00
48 T	Methyl methacrylate	0.460	0.516	-12.2	108	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN071625\
 Data File : VN087335.D
 Acq On : 16 Jul 2025 19:59
 Operator : JC\MD
 Sample : VSTDICV050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 ICSVN071625

Quant Time: Jul 17 03:00:24 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N071625W.M
 Quant Title : SW846 8260
 QLast Update : Thu Jul 17 02:56:13 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	109	0.00
50 S	Toluene-d8	1.230	1.269	-3.2	109	0.00
51 T	4-Methyl-2-Pentanone	0.646	0.695	-7.6	106	0.00
52 CM	Toluene	0.895	0.935	-4.5#	102	0.00
53 T	t-1,3-Dichloropropene	0.571	0.624	-9.3	106	0.00
54 T	cis-1,3-Dichloropropene	0.590	0.630	-6.8	105	0.00
55 T	1,1,2-Trichloroethane	0.362	0.362	0.0	104	0.00
56 T	Ethyl methacrylate	0.552	0.648	-17.4	109	0.00
57 T	1,3-Dichloropropane	0.627	0.654	-4.3	105	0.00
58 T	2-Chloroethyl Vinyl ether	0.297	0.339	-14.1	103	0.00
59 T	2-Hexanone	0.429	0.495	-15.4	105	0.00
60 T	Dibromochloromethane	0.413	0.436	-5.6	107	0.00
61 T	1,2-Dibromoethane	0.381	0.394	-3.4	108	0.00
62 S	4-Bromofluorobenzene	0.455	0.481	-5.7	111	0.00
63 I	Chlorobenzene-d5	1.000	1.000	0.0	107	0.00
64 T	Tetrachloroethene	0.322	0.308	4.3	102	0.00
65 PM	Chlorobenzene	1.123	1.088	3.1	104	0.00
66 T	1,1,1,2-Tetrachloroethane	0.382	0.386	-1.0	105	0.00
67 C	Ethyl Benzene	1.848	1.904	-3.0#	104	0.00
68 T	m/p-Xylenes	0.692	0.728	-5.2	102	0.00
69 T	o-Xylene	0.661	0.704	-6.5	104	0.00
70 T	Styrene	1.112	1.212	-9.0	103	0.00
71 P	Bromoform	0.308	0.321	-4.2	104	0.00
72 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	105	0.00
73 T	Isopropylbenzene	3.147	3.438	-9.2	107	0.00
74 T	N-amyl acetate	1.307	1.307	0.0	121	0.00
75 P	1,1,2,2-Tetrachloroethane	1.184	1.222	-3.2	107	0.00
76 T	1,2,3-Trichloropropane	1.121	1.053	6.1	93	0.00
77 T	Bromobenzene	0.816	0.855	-4.8	104	0.00
78 T	n-propylbenzene	3.959	4.249	-7.3	104	0.00
79 T	2-Chlorotoluene	2.433	2.554	-5.0	106	0.00
80 T	1,3,5-Trimethylbenzene	2.681	2.900	-8.2	104	0.00
81 T	trans-1,4-Dichloro-2-butene	0.410	0.419	-2.2	109	0.00
82 T	4-Chlorotoluene	2.533	2.658	-4.9	106	0.00
83 T	tert-Butylbenzene	2.239	2.479	-10.7	108	0.00
84 T	1,2,4-Trimethylbenzene	2.738	2.999	-9.5	105	0.00
85 T	sec-Butylbenzene	3.373	3.562	-5.6	105	0.00
86 T	p-Isopropyltoluene	2.703	2.973	-10.0	105	0.00
87 T	1,3-Dichlorobenzene	1.602	1.660	-3.6	105	0.00
88 T	1,4-Dichlorobenzene	1.711	1.690	1.2	105	0.00
89 T	n-Butylbenzene	2.581	2.749	-6.5	105	0.00
90 T	Hexachloroethane	0.573	0.560	2.3	102	0.00
91 T	1,2-Dichlorobenzene	1.517	1.563	-3.0	104	0.00
92 T	1,2-Dibromo-3-Chloropropane	0.311	0.305	1.9	106	0.00
93 T	1,2,4-Trichlorobenzene	0.891	0.933	-4.7	105	0.00
94 T	Hexachlorobutadiene	0.331	0.333	-0.6	107	0.00
95 T	Naphthalene	3.158	3.510	-11.1	107	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN071625\
Data File : VN087335.D
Acq On : 16 Jul 2025 19:59
Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
ICVVN071625

Quant Time: Jul 17 03:00:24 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N071625W.M
Quant Title : SW846 8260
QLast Update : Thu Jul 17 02:56:13 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	0.894	0.946	-5.8	108	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 6

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN071625\
 Data File : VN087335.D
 Acq On : 16 Jul 2025 19:59
 Operator : JC\MD
 Sample : VSTDICV050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 ICVVN071625

Quant Time: Jul 17 03:00:24 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N071625W.M
 Quant Title : SW846 8260
 QLast Update : Thu Jul 17 02:56:13 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	108	0.00
2 T	Dichlorodifluoromethane	50.000	58.029	-16.1	107	0.00
3 P	Chloromethane	50.000	50.986	-2.0	107	0.00
4 C	Vinyl Chloride	50.000	53.589	-7.2#	106	0.00
5 T	Bromomethane	50.000	58.322	-16.6	122	0.00
6 T	Chloroethane	50.000	49.172	1.7	105	0.00
7 T	Trichlorofluoromethane	50.000	49.336	1.3	103	0.00
8 T	Diethyl Ether	50.000	50.861	-1.7	106	0.00
9 T	1,1,2-Trichlorotrifluoroeth	50.000	49.520	1.0	103	0.00
10 T	Methyl Iodide	50.000	50.369	-0.7	115	0.00
11 T	Tert butyl alcohol	250.000	262.884	-5.2	114	0.00
12 CM	1,1-Dichloroethene	50.000	45.432	9.1#	103	0.00
13 T	Acrolein	250.000	277.145	-10.9	128	0.00
14 T	Allyl chloride	50.000	49.004	2.0	110	0.00
15 T	Acrylonitrile	250.000	252.616	-1.0	106	0.00
16 T	Acetone	250.000	237.913	4.8	106	0.00
17 T	Carbon Disulfide	50.000	49.947	0.1	106	0.00
18 T	Methyl Acetate	50.000	49.111	1.8	107	0.00
19 T	Methyl tert-butyl Ether	50.000	50.939	-1.9	107	0.00
20 T	Methylene Chloride	50.000	49.445	1.1	107	0.00
21 T	trans-1,2-Dichloroethene	50.000	47.283	5.4	101	0.00
22 T	Diisopropyl ether	50.000	51.191	-2.4	105	0.00
23 T	Vinyl Acetate	250.000	273.101	-9.2	106	0.00
24 P	1,1-Dichloroethane	50.000	48.170	3.7	107	0.00
25 T	2-Butanone	250.000	255.411	-2.2	106	0.00
26 T	2,2-Dichloropropane	50.000	45.700	8.6	98	0.00
27 T	cis-1,2-Dichloroethene	50.000	50.543	-1.1	106	0.00
28 T	Bromochloromethane	50.000	49.089	1.8	107	0.00
29 T	Tetrahydrofuran	250.000	260.404	-4.2	106	0.00
30 C	Chloroform	50.000	48.306	3.4#	103	0.00
31 T	Cyclohexane	50.000	49.042	1.9	106	0.00
32 T	1,1,1-Trichloroethane	50.000	49.412	1.2	107	0.00
33 S	1,2-Dichloroethane-d4	50.000	48.204	3.6	111	0.00
34 I	1,4-Difluorobenzene	50.000	50.000	0.0	105	0.00
35 S	Dibromofluoromethane	50.000	49.934	0.1	109	0.00
36 T	1,1-Dichloropropene	50.000	53.690	-7.4	106	0.00
37 T	Ethyl Acetate	50.000	53.525	-7.0	105	0.00
38 T	Carbon Tetrachloride	50.000	52.821	-5.6	108	0.00
39 T	Methylcyclohexane	50.000	53.109	-6.2	104	0.00
40 TM	Benzene	50.000	52.380	-4.8	105	0.00
41 T	Methacrylonitrile	50.000	53.895	-7.8	106	0.00
42 TM	1,2-Dichloroethane	50.000	50.821	-1.6	105	0.00
43 T	Isopropyl Acetate	50.000	53.477	-7.0	108	0.00
44 TM	Trichloroethene	50.000	49.731	0.5	102	0.00
45 C	1,2-Dichloropropane	50.000	52.900	-5.8#	106	0.00
46 T	Dibromomethane	50.000	51.241	-2.5	105	0.00
47 T	Bromodichloromethane	50.000	51.696	-3.4	108	0.00
48 T	Methyl methacrylate	50.000	56.096	-12.2	108	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN071625\
 Data File : VN087335.D
 Acq On : 16 Jul 2025 19:59
 Operator : JC\MD
 Sample : VSTDICV050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 ICVVN071625

Quant Time: Jul 17 03:00:24 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N071625W.M
 Quant Title : SW846 8260
 QLast Update : Thu Jul 17 02:56:13 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	1177.300	-17.7	109	0.00
50 S	Toluene-d8	50.000	51.573	-3.1	109	0.00
51 T	4-Methyl-2-Pentanone	250.000	268.966	-7.6	106	0.00
52 CM	Toluene	50.000	52.236	-4.5#	102	0.00
53 T	t-1,3-Dichloropropene	50.000	54.628	-9.3	106	0.00
54 T	cis-1,3-Dichloropropene	50.000	53.351	-6.7	105	0.00
55 T	1,1,2-Trichloroethane	50.000	49.889	0.2	104	0.00
56 T	Ethyl methacrylate	50.000	53.042	-6.1	109	0.00
57 T	1,3-Dichloropropane	50.000	52.202	-4.4	105	0.00
58 T	2-Chloroethyl Vinyl ether	250.000	285.088	-14.0	103	0.00
59 T	2-Hexanone	250.000	288.579	-15.4	105	0.00
60 T	Dibromochloromethane	50.000	52.685	-5.4	107	0.00
61 T	1,2-Dibromoethane	50.000	51.746	-3.5	108	0.00
62 S	4-Bromofluorobenzene	50.000	52.942	-5.9	111	0.00
63 I	Chlorobenzene-d5	50.000	50.000	0.0	107	0.00
64 T	Tetrachloroethene	50.000	47.819	4.4	102	0.00
65 PM	Chlorobenzene	50.000	48.477	3.0	104	0.00
66 T	1,1,1,2-Tetrachloroethane	50.000	50.530	-1.1	105	0.00
67 C	Ethyl Benzene	50.000	51.523	-3.0#	104	0.00
68 T	m/p-Xylenes	100.000	105.269	-5.3	102	0.00
69 T	o-Xylene	50.000	53.221	-6.4	104	0.00
70 T	Styrene	50.000	54.477	-9.0	103	0.00
71 P	Bromoform	50.000	51.987	-4.0	104	0.00
72 I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	105	0.00
73 T	Isopropylbenzene	50.000	54.619	-9.2	107	0.00
74 T	N-amyl acetate	50.000	49.972	0.1	121	0.00
75 P	1,1,2,2-Tetrachloroethane	50.000	51.580	-3.2	107	0.00
76 T	1,2,3-Trichloropropane	50.000	46.955	6.1	93	0.00
77 T	Bromobenzene	50.000	52.368	-4.7	104	0.00
78 T	n-propylbenzene	50.000	53.661	-7.3	104	0.00
79 T	2-Chlorotoluene	50.000	52.475	-5.0	106	0.00
80 T	1,3,5-Trimethylbenzene	50.000	54.071	-8.1	104	0.00
81 T	trans-1,4-Dichloro-2-butene	50.000	51.080	-2.2	109	0.00
82 T	4-Chlorotoluene	50.000	52.464	-4.9	106	0.00
83 T	tert-Butylbenzene	50.000	55.349	-10.7	108	0.00
84 T	1,2,4-Trimethylbenzene	50.000	54.773	-9.5	105	0.00
85 T	sec-Butylbenzene	50.000	52.800	-5.6	105	0.00
86 T	p-Isopropyltoluene	50.000	54.982	-10.0	105	0.00
87 T	1,3-Dichlorobenzene	50.000	51.809	-3.6	105	0.00
88 T	1,4-Dichlorobenzene	50.000	49.381	1.2	105	0.00
89 T	n-Butylbenzene	50.000	53.250	-6.5	105	0.00
90 T	Hexachloroethane	50.000	48.870	2.3	102	0.00
91 T	1,2-Dichlorobenzene	50.000	51.485	-3.0	104	0.00
92 T	1,2-Dibromo-3-Chloropropane	50.000	49.035	1.9	106	0.00
93 T	1,2,4-Trichlorobenzene	50.000	52.351	-4.7	105	0.00
94 T	Hexachlorobutadiene	50.000	50.273	-0.5	107	0.00
95 T	Naphthalene	50.000	55.585	-11.2	107	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN071625\
Data File : VN087335.D
Acq On : 16 Jul 2025 19:59
Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
ICVVN071625

Quant Time: Jul 17 03:00:24 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N071625W.M
Quant Title : SW846 8260
QLast Update : Thu Jul 17 02:56:13 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	52.890	-5.8	108	0.00

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



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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name:	<u>Alliance</u>	Contract:	<u>GENV01</u>
Lab Code:	<u>ACE</u>	SDG No.:	<u>Q2664</u>
Instrument ID:	<u>MSVOA_N</u>	Calibration Date/Time:	<u>07/21/2025 10:38</u>
Lab File ID:	<u>VN087368.D</u>	Init. Calib. Date(s):	<u>07/16/2025 07/16/2025</u>
Heated Purge: (Y/N)	<u>N</u>	Init. Calib. Time(s):	<u>17:05 18:54</u>
GC Column:	<u>RXI-624</u>	ID:	<u>0.25</u> (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.531	0.655		23.35	20
Chloromethane	0.668	0.678	0.1	1.5	20
Vinyl Chloride	0.664	0.725		9.19	20
Bromomethane	0.344	0.335		-2.62	20
Chloroethane	0.433	0.443		2.31	20
Trichlorofluoromethane	0.981	1.080		10.09	20
1,1,2-Trichlorotrifluoroethane	0.504	0.578		14.68	20
1,1-Dichloroethene	0.571	0.556		-2.63	20
Acrolein	0.129	0.127		-1.55	20
Carbon Disulfide	1.693	1.786		5.49	20
Methyl tert-butyl Ether	2.104	2.165		2.9	20
Methyl Acetate	0.999	0.952		-4.7	20
Methylene Chloride	0.766	0.680		-11.23	20
trans-1,2-Dichloroethene	0.644	0.639		-0.78	20
1,1-Dichloroethane	1.250	1.246	0.1	-0.32	20
Cyclohexane	1.043	1.138		9.11	20
2-Butanone	0.615	0.586		-4.72	20
Carbon Tetrachloride	0.502	0.596		18.73	20
cis-1,2-Dichloroethene	0.741	0.765		3.24	20
Bromochloromethane	0.598	0.602		0.67	20
Chloroform	1.251	1.287		2.88	20
1,1,1-Trichloroethane	1.084	1.134		4.61	20
Methylcyclohexane	0.493	0.642		30.22	20
Benzene	1.473	1.638		11.2	20
1,2-Dichloroethane	0.558	0.595		6.63	20
Trichloroethene	0.348	0.383		10.06	20
1,2-Dichloropropane	0.374	0.421		12.57	20
Bromodichloromethane	0.564	0.593		5.14	20
4-Methyl-2-Pentanone	0.646	0.672		4.03	20
Toluene	0.895	1.007		12.51	20
t-1,3-Dichloropropene	0.571	0.634		11.03	20
cis-1,3-Dichloropropene	0.590	0.666		12.88	20
1,1,2-Trichloroethane	0.362	0.377		4.14	20
2-Hexanone	0.429	0.471		9.79	20
Dibromochloromethane	0.413	0.442		7.02	20
1,2-Dibromoethane	0.381	0.399		4.72	20
Tetrachloroethene	0.322	0.364		13.04	20
Chlorobenzene	1.123	1.199	0.3	6.77	20

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



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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name:	<u>Alliance</u>	Contract:	<u>GENV01</u>
Lab Code:	<u>ACE</u>	SDG No.:	<u>Q2664</u>
Instrument ID:	<u>MSVOA_N</u>	Calibration Date/Time:	<u>07/21/2025 10:38</u>
Lab File ID:	<u>VN087368.D</u>	Init. Calib. Date(s):	<u>07/16/2025 07/16/2025</u>
Heated Purge: (Y/N)	<u>N</u>	Init. Calib. Time(s):	<u>17:05 18:54</u>
GC Column:	<u>RXI-624</u>	ID:	<u>0.25</u> (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Ethyl Benzene	1.848	2.112		14.29	20
m/p-Xylenes	0.692	0.827		19.51	20
o-Xylene	0.661	0.783		18.46	20
Styrene	1.112	1.331		19.69	20
Bromoform	0.308	0.332	0.1	7.79	20
Isopropylbenzene	3.147	3.856		22.53	20
1,1,2,2-Tetrachloroethane	1.184	1.213	0.3	2.45	20
1,2,4-Trimethylbenzene	2.738	3.304		20.67	20
1,3-Dichlorobenzene	1.602	1.782		11.24	20
1,4-Dichlorobenzene	1.711	1.821		6.43	20
1,2-Dichlorobenzene	1.517	1.679		10.68	20
1,2-Dibromo-3-Chloropropane	0.311	0.293		-5.79	20
1,2,4-Trichlorobenzene	0.891	1.041		16.83	20
1,2,3-Trichlorobenzene	0.894	1.020		14.09	20
1,2-Dichloroethane-d4	0.848	0.831		-2.01	20
Dibromofluoromethane	0.345	0.356		3.19	20
Toluene-d8	1.230	1.321		7.4	20
4-Bromofluorobenzene	0.455	0.481		5.71	20

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN072125\
 Data File : VN087368.D
 Acq On : 21 Jul 2025 10:38
 Operator : JC\MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Manual Integrations
 APPROVED

Reviewed By : John Carlone 07/22/2025
 Supervised By : Mahesh Dadoda 07/22/2025

Quant Time: Jul 22 03:02:49 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N071625W.M
 Quant Title : SW846 8260
 QLast Update : Thu Jul 17 02:56:13 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.206	168	202357	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.083	114	342303	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.847	117	307825	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.770	152	162263	50.000	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.565	65	168127	48.966	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	97.940%
35) Dibromofluoromethane	8.147	113	121755	51.565	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	103.120%
50) Toluene-d8	10.547	98	452056	53.671	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	107.340%
62) 4-Bromofluorobenzene	12.829	95	164788	52.956	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	105.920%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.142	85	132620	61.705	ug/l	93
3) Chloromethane	2.383	50	137176	50.754	ug/l	97
4) Vinyl Chloride	2.536	62	146742	54.632	ug/l	93
5) Bromomethane	2.971	94	67780	48.730	ug/l	95
6) Chloroethane	3.136	64	89560	51.128	ug/l	95
7) Trichlorofluoromethane	3.512	101	218623	55.045	ug/l	99
8) Diethyl Ether	3.965	74	77841	50.524	ug/l	100
9) 1,1,2-Trichlorotrifluo...	4.359	101	116922	57.347	ug/l	97
10) Methyl Iodide	4.583	142	94184	45.477	ug/l	94
11) Tert butyl alcohol	5.518	59	150479	230.810	ug/l	100
12) 1,1-Dichloroethene	4.336	96	112586	48.730	ug/l	87
13) Acrolein	4.177	56	128290	245.196	ug/l	99
14) Allyl chloride	5.012	41	207234	49.562	ug/l	96
15) Acrylonitrile	5.706	53	424364	239.867	ug/l	99
16) Acetone	4.424	43	358096	222.434	ug/l	100
17) Carbon Disulfide	4.706	76	361501	52.775	ug/l	98
18) Methyl Acetate	5.012	43	192630	47.625	ug/l	99
19) Methyl tert-butyl Ether	5.789	73	438021	51.435	ug/l	98
20) Methylene Chloride	5.265	84	137601	50.568	ug/l	96
21) trans-1,2-Dichloroethene	5.771	96	129240	49.610	ug/l	98
22) Diisopropyl ether	6.659	45	465975	53.129	ug/l	98
23) Vinyl Acetate	6.589	43	2092358	272.771	ug/l	100
24) 1,1-Dichloroethane	6.553	63	252113	49.825	ug/l	98
25) 2-Butanone	7.471	43	592505	238.198	ug/l	97
26) 2,2-Dichloropropane	7.477	77	229345	58.298	ug/l	98
27) cis-1,2-Dichloroethene	7.471	96	154887	51.642	ug/l	98
28) Bromochloromethane	7.794	49	121917	50.344	ug/l	97
29) Tetrahydrofuran	7.824	42	391085	242.020	ug/l	99
30) Chloroform	7.947	83	260496	51.433	ug/l	95
31) Cyclohexane	8.241	56	230222	54.540	ug/l	98
32) 1,1,1-Trichloroethane	8.147	97	229476	52.312	ug/l	99
36) 1,1-Dichloropropene	8.353	75	185889	59.588	ug/l	99
37) Ethyl Acetate	7.547	43	239416	53.140	ug/l	98
38) Carbon Tetrachloride	8.347	117	203929	59.343	ug/l	94
39) Methylcyclohexane	9.582	83	219730	65.059	ug/l	100
40) Benzene	8.588	78	560613	55.603	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN072125\
 Data File : VN087368.D
 Acq On : 21 Jul 2025 10:38
 Operator : JC\MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/22/2025

Supervised By :Mahesh Dadoda 07/22/2025

Quant Time: Jul 22 03:02:49 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N071625W.M

Quant Title : SW846 8260

QLast Update : Thu Jul 17 02:56:13 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.759	41	127502	54.123	ug/l	98
42) 1,2-Dichloroethane	8.653	62	203545	53.235	ug/l	98
43) Isopropyl Acetate	8.671	43	366496	52.402	ug/l	99
44) Trichloroethene	9.335	130	131220	55.080	ug/l	98
45) 1,2-Dichloropropane	9.606	63	144201	56.288	ug/l	95
46) Dibromomethane	9.688	93	99408	51.826	ug/l	97
47) Bromodichloromethane	9.871	83	203072	52.560	ug/l	100
48) Methyl methacrylate	9.665	41	170300	54.088	ug/l	97
49) 1,4-Dioxane	9.682	88	49240	1021.070	ug/l #	100
51) 4-Methyl-2-Pentanone	10.430	43	1149631	259.892	ug/l	100
52) Toluene	10.612	92	344604	56.232	ug/l	98
53) t-1,3-Dichloropropene	10.818	75	217085	55.519	ug/l	98
54) cis-1,3-Dichloropropene	10.294	75	228121	56.480	ug/l	98
55) 1,1,2-Trichloroethane	11.000	97	129044	52.012	ug/l	93
56) Ethyl methacrylate	10.859	69	219636	52.536	ug/l	96
57) 1,3-Dichloropropane	11.141	76	229926	53.600	ug/l	100
58) 2-Chloroethyl Vinyl ether	10.141	63	578951	284.461	ug/l	100
59) 2-Hexanone	11.177	43	805849	274.584	ug/l	100
60) Dibromochloromethane	11.341	129	151360	53.493	ug/l	100
61) 1,2-Dibromoethane	11.447	107	136698	52.401	ug/l	95
64) Tetrachloroethene	11.082	164	112075	56.570	ug/l	92
65) Chlorobenzene	11.871	112	369122	53.411	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.941	131	129020	54.903	ug/l	99
67) Ethyl Benzene	11.941	91	650111	57.142	ug/l	99
68) m/p-Xylenes	12.053	106	509171	119.516	ug/l	100
69) o-Xylene	12.376	106	240930	59.204	ug/l	99
70) Styrene	12.394	104	409701	59.847	ug/l	99
71) Bromoform	12.559	173	102120	53.790	ug/l #	100
73) Isopropylbenzene	12.676	105	625743	61.272	ug/l	100
74) N-amyl acetate	12.494	43	201002	47.372	ug/l	90
75) 1,1,2,2-Tetrachloroethane	12.918	83	196891	51.237	ug/l	100
76) 1,2,3-Trichloropropane	12.971	75	196300m	53.949	ug/l	
77) Bromobenzene	12.959	156	149559	56.468	ug/l	98
78) n-propylbenzene	13.012	91	777876	60.540	ug/l	99
79) 2-Chlorotoluene	13.106	91	447756	56.702	ug/l	99
80) 1,3,5-Trimethylbenzene	13.153	105	524279	60.253	ug/l	98
81) trans-1,4-Dichloro-2-b...	12.718	75	71257	53.584	ug/l	95
82) 4-Chlorotoluene	13.200	91	458601	55.780	ug/l	99
83) tert-Butylbenzene	13.418	119	455752	62.712	ug/l	98
84) 1,2,4-Trimethylbenzene	13.459	105	536180	60.341	ug/l	99
85) sec-Butylbenzene	13.594	105	681159	62.226	ug/l	100
86) p-Isopropyltoluene	13.706	119	575261	65.575	ug/l	99
87) 1,3-Dichlorobenzene	13.712	146	289139	55.624	ug/l	100
88) 1,4-Dichlorobenzene	13.788	146	295512	53.229	ug/l	99
89) n-Butylbenzene	14.035	91	534390	63.795	ug/l	99
90) Hexachloroethane	14.312	117	108610	58.433	ug/l	96
91) 1,2-Dichlorobenzene	14.082	146	272418	55.319	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	14.700	75	47578	47.158	ug/l	98
93) 1,2,4-Trichlorobenzene	15.370	180	168911	58.393	ug/l	98
94) Hexachlorobutadiene	15.476	225	70795	65.866	ug/l	98
95) Naphthalene	15.617	128	564590	55.095	ug/l	99
96) 1,2,3-Trichlorobenzene	15.817	180	165516	57.042	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN072125\
Data File : VN087368.D
Acq On : 21 Jul 2025 10:38
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By : John Carlone 07/22/2025
Supervised By : Mahesh Dadoda 07/22/2025

Quant Time: Jul 22 03:02:49 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N071625W.M
Quant Title : SW846 8260
QLast Update : Thu Jul 17 02:56:13 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
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(#) = qualifier out of range (m) = manual integration (+) = signals summed

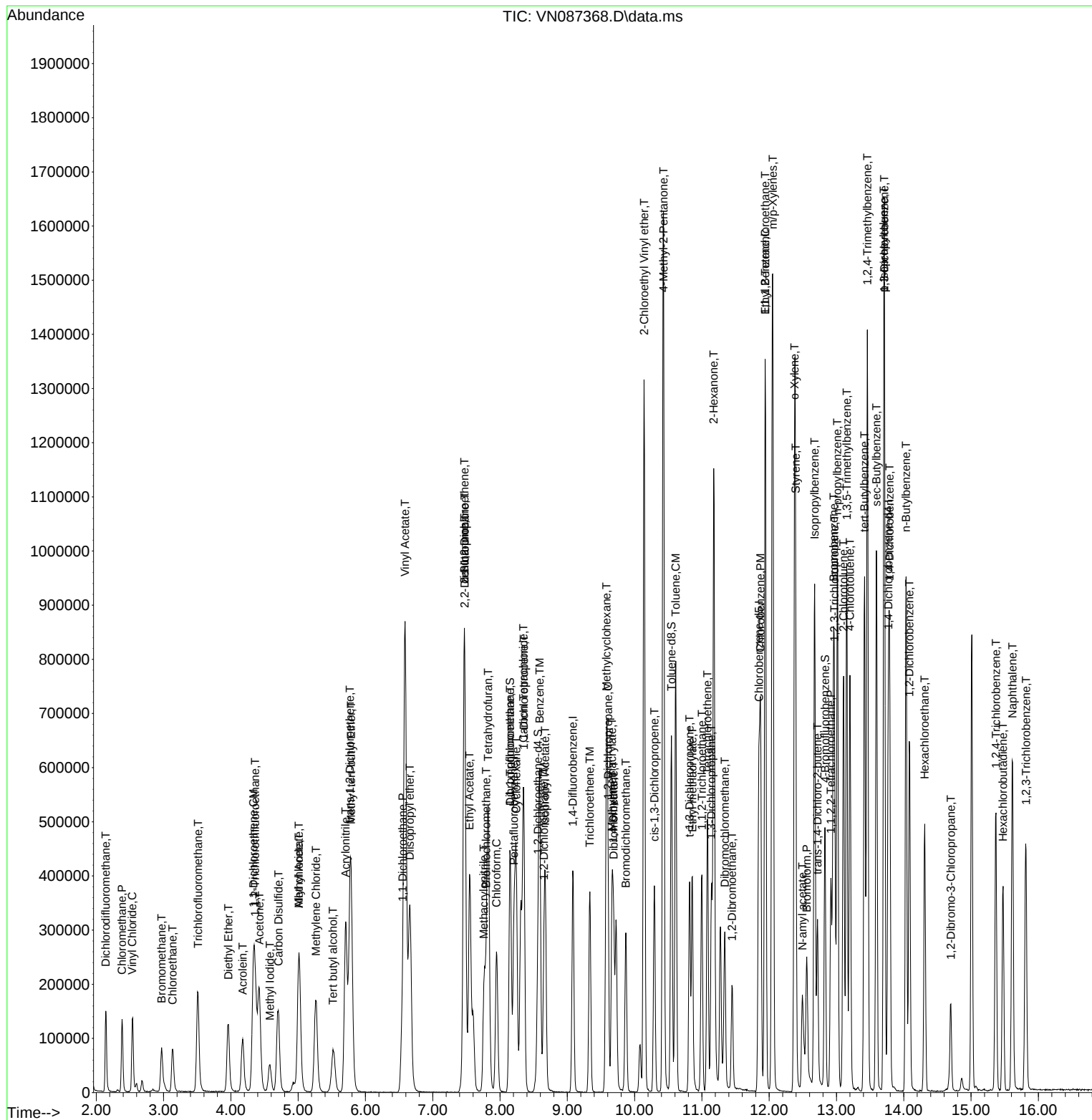
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Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN072125\  
Data File : VN087368.D  
Acq On    : 21 Jul 2025  10:38  
Operator  : JC\MD  
Sample    : VSTDCCC050  
Misc      : 5.0mL/MSVOA_N/WATER  
ALS Vial  : 2      Sample Multiplier: 1
```

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 07/22/2025
Supervised By :Mahesh Dadoda 07/22/2025

Quant Time: Jul 22 03:02:49 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N071625W.M
Quant Title : SW846 8260
QLast Update : Thu Jul 17 02:56:13 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN072125\
 Data File : VN087368.D
 Acq On : 21 Jul 2025 10:38
 Operator : JC\MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_N
 LabSampleId :
 VSTDCCC050

Quant Time: Jul 22 03:02:49 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N071625W.M
 Quant Title : SW846 8260
 QLast Update : Thu Jul 17 02:56:13 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	111	0.00
2 T	Dichlorodifluoromethane	0.531	0.655	-23.4	116	0.00
3 P	Chloromethane	0.668	0.678	-1.5	109	0.00
4 C	Vinyl Chloride	0.664	0.725	-9.2#	110	0.00
5 T	Bromomethane	0.344	0.335	2.6	104	0.00
6 T	Chloroethane	0.433	0.443	-2.3	111	0.00
7 T	Trichlorofluoromethane	0.981	1.080	-10.1	117	0.00
8 T	Diethyl Ether	0.381	0.385	-1.0	108	0.00
9 T	1,1,2-Trichlorotrifluoroeth	0.504	0.578	-14.7	122	0.00
10 T	Methyl Iodide	0.452	0.465	-2.9	104	0.00
11 T	Tert butyl alcohol	0.161	0.149	7.5	102	0.00
12 CM	1,1-Dichloroethene	0.571	0.556	2.6#	113	0.00
13 T	Acrolein	0.129	0.127	1.6	116	0.00
14 T	Allyl chloride	1.033	1.024	0.9	113	0.00
15 T	Acrylonitrile	0.437	0.419	4.1	102	0.00
16 T	Acetone	0.398	0.354	11.1	101	0.00
17 T	Carbon Disulfide	1.693	1.786	-5.5	114	0.01
18 T	Methyl Acetate	0.999	0.952	4.7	106	0.00
19 T	Methyl tert-butyl Ether	2.104	2.165	-2.9	111	0.00
20 T	Methylene Chloride	0.766	0.680	11.2	112	0.00
21 T	trans-1,2-Dichloroethene	0.644	0.639	0.8	108	0.00
22 T	Diisopropyl ether	2.167	2.303	-6.3	112	0.00
23 T	Vinyl Acetate	1.895	2.068	-9.1	108	0.00
24 P	1,1-Dichloroethane	1.250	1.246	0.3	113	0.00
25 T	2-Butanone	0.615	0.586	4.7	101	0.00
26 T	2,2-Dichloropropane	0.972	1.133	-16.6	128	0.00
27 T	cis-1,2-Dichloroethene	0.741	0.765	-3.2	110	0.00
28 T	Bromochloromethane	0.598	0.602	-0.7	112	0.00
29 T	Tetrahydrofuran	0.399	0.387	3.0	101	0.00
30 C	Chloroform	1.251	1.287	-2.9#	111	0.00
31 T	Cyclohexane	1.043	1.138	-9.1	120	0.00
32 T	1,1,1-Trichloroethane	1.084	1.134	-4.6	116	0.00
33 S	1,2-Dichloroethane-d4	0.848	0.831	2.0	115	0.00
34 I	1,4-Difluorobenzene	1.000	1.000	0.0	105	0.00
35 S	Dibromofluoromethane	0.345	0.356	-3.2	112	0.00
36 T	1,1-Dichloropropene	0.456	0.543	-19.1	117	0.00
37 T	Ethyl Acetate	0.658	0.699	-6.2	104	0.00
38 T	Carbon Tetrachloride	0.502	0.596	-18.7	121	0.00
39 T	Methylcyclohexane	0.493	0.642	-30.2#	128	0.00
40 TM	Benzene	1.473	1.638	-11.2	111	0.00
41 T	Methacrylonitrile	0.344	0.372	-8.1	106	-0.01
42 TM	1,2-Dichloroethane	0.558	0.595	-6.6	110	0.00
43 T	Isopropyl Acetate	1.022	1.071	-4.8	105	0.00
44 TM	Trichloroethene	0.348	0.383	-10.1	113	0.00
45 C	1,2-Dichloropropane	0.374	0.421	-12.6#	112	0.00
46 T	Dibromomethane	0.280	0.290	-3.6	106	0.00
47 T	Bromodichloromethane	0.564	0.593	-5.1	110	0.00
48 T	Methyl methacrylate	0.460	0.498	-8.3	104	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN072125\
 Data File : VN087368.D
 Acq On : 21 Jul 2025 10:38
 Operator : JC\MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_N
 LabSampleId :
 VSTDCCC050

Quant Time: Jul 22 03:02:49 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N071625W.M
 Quant Title : SW846 8260
 QLast Update : Thu Jul 17 02:56:13 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	0.007	0.0	95	0.00
50 S	Toluene-d8	1.230	1.321	-7.4	113	0.00
51 T	4-Methyl-2-Pentanone	0.646	0.672	-4.0	102	0.00
52 CM	Toluene	0.895	1.007	-12.5#	110	0.00
53 T	t-1,3-Dichloropropene	0.571	0.634	-11.0	107	0.00
54 T	cis-1,3-Dichloropropene	0.590	0.666	-12.9	111	0.00
55 T	1,1,2-Trichloroethane	0.362	0.377	-4.1	108	0.00
56 T	Ethyl methacrylate	0.552	0.642	-16.3	107	0.00
57 T	1,3-Dichloropropane	0.627	0.672	-7.2	108	0.00
58 T	2-Chloroethyl Vinyl ether	0.297	0.338	-13.8	103	0.00
59 T	2-Hexanone	0.429	0.471	-9.8	100	0.00
60 T	Dibromochloromethane	0.413	0.442	-7.0	108	0.00
61 T	1,2-Dibromoethane	0.381	0.399	-4.7	109	0.00
62 S	4-Bromofluorobenzene	0.455	0.481	-5.7	111	0.00
63 I	Chlorobenzene-d5	1.000	1.000	0.0	103	0.00
64 T	Tetrachloroethene	0.322	0.364	-13.0	117	0.00
65 PM	Chlorobenzene	1.123	1.199	-6.8	110	0.00
66 T	1,1,1,2-Tetrachloroethane	0.382	0.419	-9.7	109	0.00
67 C	Ethyl Benzene	1.848	2.112	-14.3#	112	0.00
68 T	m/p-Xylenes	0.692	0.827	-19.5	112	0.00
69 T	o-Xylene	0.661	0.783	-18.5	111	0.00
70 T	Styrene	1.112	1.331	-19.7	109	0.00
71 P	Bromoform	0.308	0.332	-7.8	104	0.00
72 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	102	0.00
73 T	Isopropylbenzene	3.147	3.856	-22.5	116	0.00
74 T	N-amyl acetate	1.307	1.239	5.2	111	0.00
75 P	1,1,2,2-Tetrachloroethane	1.184	1.213	-2.4	103	0.00
76 T	1,2,3-Trichloropropane	1.121	1.210	-7.9	104	0.00
77 T	Bromobenzene	0.816	0.922	-13.0	109	0.00
78 T	n-propylbenzene	3.959	4.794	-21.1	114	0.00
79 T	2-Chlorotoluene	2.433	2.759	-13.4	112	0.00
80 T	1,3,5-Trimethylbenzene	2.681	3.231	-20.5	113	0.00
81 T	trans-1,4-Dichloro-2-butene	0.410	0.439	-7.1	111	0.00
82 T	4-Chlorotoluene	2.533	2.826	-11.6	109	0.00
83 T	tert-Butylbenzene	2.239	2.809	-25.5#	119	0.00
84 T	1,2,4-Trimethylbenzene	2.738	3.304	-20.7	113	0.00
85 T	sec-Butylbenzene	3.373	4.198	-24.5	121	0.00
86 T	p-Isopropyltoluene	2.703	3.545	-31.2#	121	0.00
87 T	1,3-Dichlorobenzene	1.602	1.782	-11.2	110	0.00
88 T	1,4-Dichlorobenzene	1.711	1.821	-6.4	109	0.00
89 T	n-Butylbenzene	2.581	3.293	-27.6#	122	0.00
90 T	Hexachloroethane	0.573	0.669	-16.8	119	0.00
91 T	1,2-Dichlorobenzene	1.517	1.679	-10.7	109	0.00
92 T	1,2-Dibromo-3-Chloropropane	0.311	0.293	5.8	99	0.00
93 T	1,2,4-Trichlorobenzene	0.891	1.041	-16.8	114	0.00
94 T	Hexachlorobutadiene	0.331	0.436	-31.7#	136	0.00
95 T	Naphthalene	3.158	3.479	-10.2	104	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN072125\
Data File : VN087368.D
Acq On : 21 Jul 2025 10:38
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC050

Quant Time: Jul 22 03:02:49 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N071625W.M
Quant Title : SW846 8260
QLast Update : Thu Jul 17 02:56:13 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	0.894	1.020	-14.1	113	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 6

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN072125\
 Data File : VN087368.D
 Acq On : 21 Jul 2025 10:38
 Operator : JC\MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_N
 LabSampleId :
 VSTDCCC050

Quant Time: Jul 22 03:02:49 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N071625W.M
 Quant Title : SW846 8260
 QLast Update : Thu Jul 17 02:56:13 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	111	0.00
2 T	Dichlorodifluoromethane	50.000	61.705	-23.4	116	0.00
3 P	Chloromethane	50.000	50.754	-1.5	109	0.00
4 C	Vinyl Chloride	50.000	54.632	-9.3#	110	0.00
5 T	Bromomethane	50.000	48.730	2.5	104	0.00
6 T	Chloroethane	50.000	51.128	-2.3	111	0.00
7 T	Trichlorofluoromethane	50.000	55.045	-10.1	117	0.00
8 T	Diethyl Ether	50.000	50.524	-1.0	108	0.00
9 T	1,1,2-Trichlorotrifluoroeth	50.000	57.347	-14.7	122	0.00
10 T	Methyl Iodide	50.000	45.477	9.0	104	0.00
11 T	Tert butyl alcohol	250.000	230.810	7.7	102	0.00
12 CM	1,1-Dichloroethene	50.000	48.730	2.5#	113	0.00
13 T	Acrolein	250.000	245.196	1.9	116	0.00
14 T	Allyl chloride	50.000	49.562	0.9	113	0.00
15 T	Acrylonitrile	250.000	239.867	4.1	102	0.00
16 T	Acetone	250.000	222.434	11.0	101	0.00
17 T	Carbon Disulfide	50.000	52.775	-5.5	114	0.01
18 T	Methyl Acetate	50.000	47.625	4.8	106	0.00
19 T	Methyl tert-butyl Ether	50.000	51.435	-2.9	111	0.00
20 T	Methylene Chloride	50.000	50.568	-1.1	112	0.00
21 T	trans-1,2-Dichloroethene	50.000	49.610	0.8	108	0.00
22 T	Diisopropyl ether	50.000	53.129	-6.3	112	0.00
23 T	Vinyl Acetate	250.000	272.771	-9.1	108	0.00
24 P	1,1-Dichloroethane	50.000	49.825	0.3	113	0.00
25 T	2-Butanone	250.000	238.198	4.7	101	0.00
26 T	2,2-Dichloropropane	50.000	58.298	-16.6	128	0.00
27 T	cis-1,2-Dichloroethene	50.000	51.642	-3.3	110	0.00
28 T	Bromochloromethane	50.000	50.344	-0.7	112	0.00
29 T	Tetrahydrofuran	250.000	242.020	3.2	101	0.00
30 C	Chloroform	50.000	51.433	-2.9#	111	0.00
31 T	Cyclohexane	50.000	54.540	-9.1	120	0.00
32 T	1,1,1-Trichloroethane	50.000	52.312	-4.6	116	0.00
33 S	1,2-Dichloroethane-d4	50.000	48.966	2.1	115	0.00
34 I	1,4-Difluorobenzene	50.000	50.000	0.0	105	0.00
35 S	Dibromofluoromethane	50.000	51.565	-3.1	112	0.00
36 T	1,1-Dichloropropene	50.000	59.588	-19.2	117	0.00
37 T	Ethyl Acetate	50.000	53.140	-6.3	104	0.00
38 T	Carbon Tetrachloride	50.000	59.343	-18.7	121	0.00
39 T	Methylcyclohexane	50.000	65.059	-30.1#	128	0.00
40 TM	Benzene	50.000	55.603	-11.2	111	0.00
41 T	Methacrylonitrile	50.000	54.123	-8.2	106	-0.01
42 TM	1,2-Dichloroethane	50.000	53.235	-6.5	110	0.00
43 T	Isopropyl Acetate	50.000	52.402	-4.8	105	0.00
44 TM	Trichloroethene	50.000	55.080	-10.2	113	0.00
45 C	1,2-Dichloropropane	50.000	56.288	-12.6#	112	0.00
46 T	Dibromomethane	50.000	51.826	-3.7	106	0.00
47 T	Bromodichloromethane	50.000	52.560	-5.1	110	0.00
48 T	Methyl methacrylate	50.000	54.088	-8.2	104	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN072125\
 Data File : VN087368.D
 Acq On : 21 Jul 2025 10:38
 Operator : JC\MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_N
 LabSampleId :
 VSTDCCC050

Quant Time: Jul 22 03:02:49 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N071625W.M
 Quant Title : SW846 8260
 QLast Update : Thu Jul 17 02:56:13 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	1021.070	-2.1	95	0.00
50 S	Toluene-d8	50.000	53.671	-7.3	113	0.00
51 T	4-Methyl-2-Pentanone	250.000	259.892	-4.0	102	0.00
52 CM	Toluene	50.000	56.232	-12.5#	110	0.00
53 T	t-1,3-Dichloropropene	50.000	55.519	-11.0	107	0.00
54 T	cis-1,3-Dichloropropene	50.000	56.480	-13.0	111	0.00
55 T	1,1,2-Trichloroethane	50.000	52.012	-4.0	108	0.00
56 T	Ethyl methacrylate	50.000	52.536	-5.1	107	0.00
57 T	1,3-Dichloropropane	50.000	53.600	-7.2	108	0.00
58 T	2-Chloroethyl Vinyl ether	250.000	284.461	-13.8	103	0.00
59 T	2-Hexanone	250.000	274.584	-9.8	100	0.00
60 T	Dibromochloromethane	50.000	53.493	-7.0	108	0.00
61 T	1,2-Dibromoethane	50.000	52.401	-4.8	109	0.00
62 S	4-Bromofluorobenzene	50.000	52.956	-5.9	111	0.00
63 I	Chlorobenzene-d5	50.000	50.000	0.0	103	0.00
64 T	Tetrachloroethene	50.000	56.570	-13.1	117	0.00
65 PM	Chlorobenzene	50.000	53.411	-6.8	110	0.00
66 T	1,1,1,2-Tetrachloroethane	50.000	54.903	-9.8	109	0.00
67 C	Ethyl Benzene	50.000	57.142	-14.3#	112	0.00
68 T	m/p-Xylenes	100.000	119.516	-19.5	112	0.00
69 T	o-Xylene	50.000	59.204	-18.4	111	0.00
70 T	Styrene	50.000	59.847	-19.7	109	0.00
71 P	Bromoform	50.000	53.790	-7.6	104	0.00
72 I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	102	0.00
73 T	Isopropylbenzene	50.000	61.272	-22.5	116	0.00
74 T	N-amyl acetate	50.000	47.372	5.3	111	0.00
75 P	1,1,2,2-Tetrachloroethane	50.000	51.237	-2.5	103	0.00
76 T	1,2,3-Trichloropropane	50.000	53.949	-7.9	104	0.00
77 T	Bromobenzene	50.000	56.468	-12.9	109	0.00
78 T	n-propylbenzene	50.000	60.540	-21.1	114	0.00
79 T	2-Chlorotoluene	50.000	56.702	-13.4	112	0.00
80 T	1,3,5-Trimethylbenzene	50.000	60.253	-20.5	113	0.00
81 T	trans-1,4-Dichloro-2-butene	50.000	53.584	-7.2	111	0.00
82 T	4-Chlorotoluene	50.000	55.780	-11.6	109	0.00
83 T	tert-Butylbenzene	50.000	62.712	-25.4#	119	0.00
84 T	1,2,4-Trimethylbenzene	50.000	60.341	-20.7	113	0.00
85 T	sec-Butylbenzene	50.000	62.226	-24.5	121	0.00
86 T	p-Isopropyltoluene	50.000	65.575	-31.2#	121	0.00
87 T	1,3-Dichlorobenzene	50.000	55.624	-11.2	110	0.00
88 T	1,4-Dichlorobenzene	50.000	53.229	-6.5	109	0.00
89 T	n-Butylbenzene	50.000	63.795	-27.6#	122	0.00
90 T	Hexachloroethane	50.000	58.433	-16.9	119	0.00
91 T	1,2-Dichlorobenzene	50.000	55.319	-10.6	109	0.00
92 T	1,2-Dibromo-3-Chloropropane	50.000	47.158	5.7	99	0.00
93 T	1,2,4-Trichlorobenzene	50.000	58.393	-16.8	114	0.00
94 T	Hexachlorobutadiene	50.000	65.866	-31.7#	136	0.00
95 T	Naphthalene	50.000	55.095	-10.2	104	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN072125\
Data File : VN087368.D
Acq On : 21 Jul 2025 10:38
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC050

Quant Time: Jul 22 03:02:49 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N071625W.M
Quant Title : SW846 8260
QLast Update : Thu Jul 17 02:56:13 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	57.042	-14.1	113	0.00

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



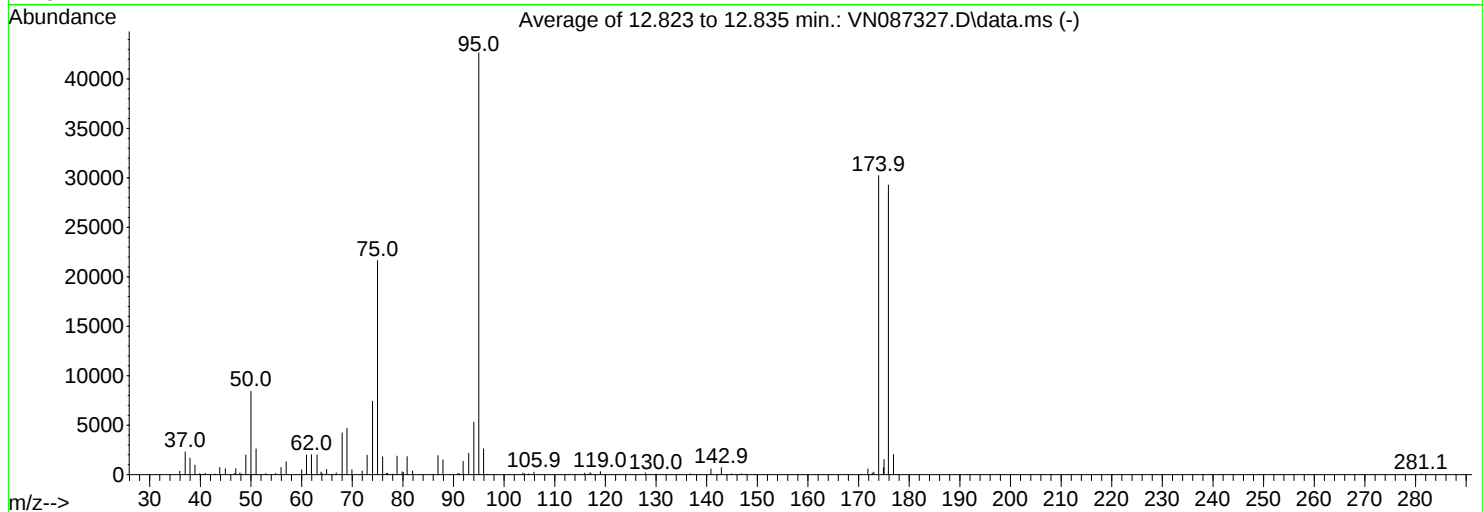
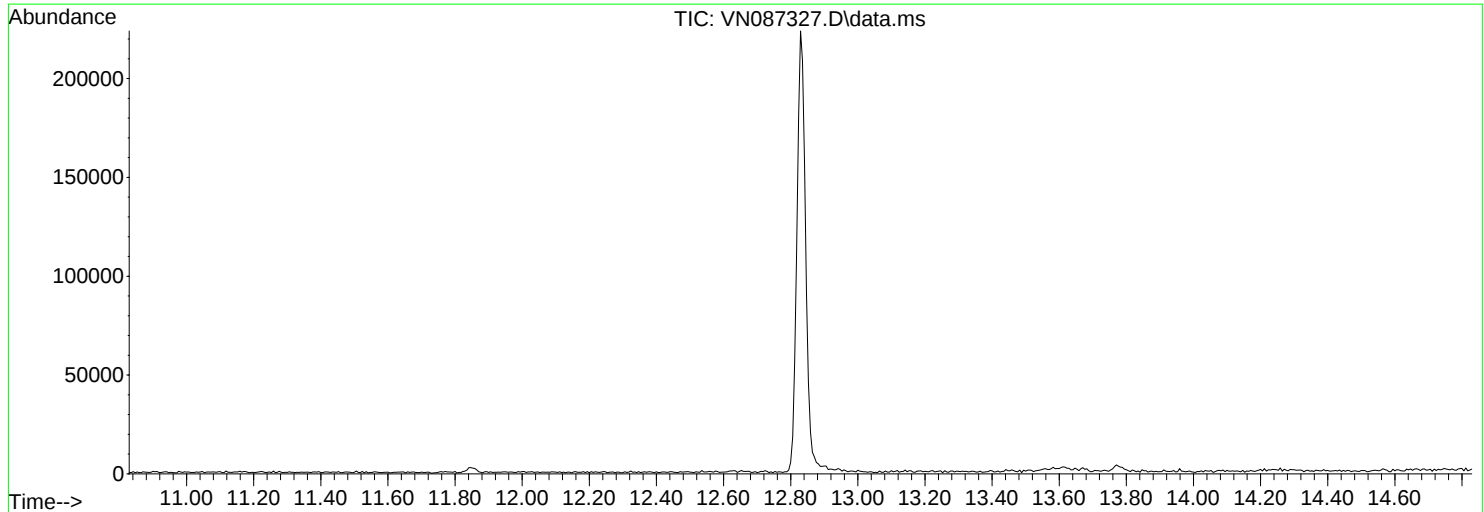
QC SAMPLE DATA

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN071625\
Data File : VN087327.D
Acq On : 16 Jul 2025 16:10
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\82N071625W.M
Title : SW846 8260
Last Update : Thu Jul 17 02:56:13 2025



AutoFind: Scans 1848, 1849, 1850; Background Corrected with Scan 1839

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	19.8	8426	PASS
75	95	30	60	50.8	21643	PASS
95	95	100	100	100.0	42640	PASS
96	95	5	9	6.1	2612	PASS
173	174	0.00	2	0.8	255	PASS
174	95	50	100	70.9	30229	PASS
175	174	5	9	5.1	1538	PASS
176	174	95	101	96.9	29285	PASS
177	176	5	9	7.0	2046	PASS

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
35.95	354	47.80	181	61.95	2016	74.00	742
37.00	2290	48.10	60	63.05	2010	75.00	2164
37.95	1679	49.00	1995	63.85	261	76.00	181
38.95	954	50.00	8426	64.10	115	76.75	14
39.90	107	51.00	2608	64.95	542	77.00	122
40.95	135	52.95	119	66.85	179	78.10	60
42.90	65	54.90	138	68.00	4227	78.85	1870
43.85	725	55.95	722	68.95	4698	79.85	287
44.95	593	56.95	1299	69.95	494	80.10	209
46.80	115	60.00	486	71.95	381	80.85	1827
47.00	608	60.95	1996	72.95	1978	81.90	375

Average of 12.823 to 12.835 min.: VN087327.D\data.ms

BFB

Modified:subtracted

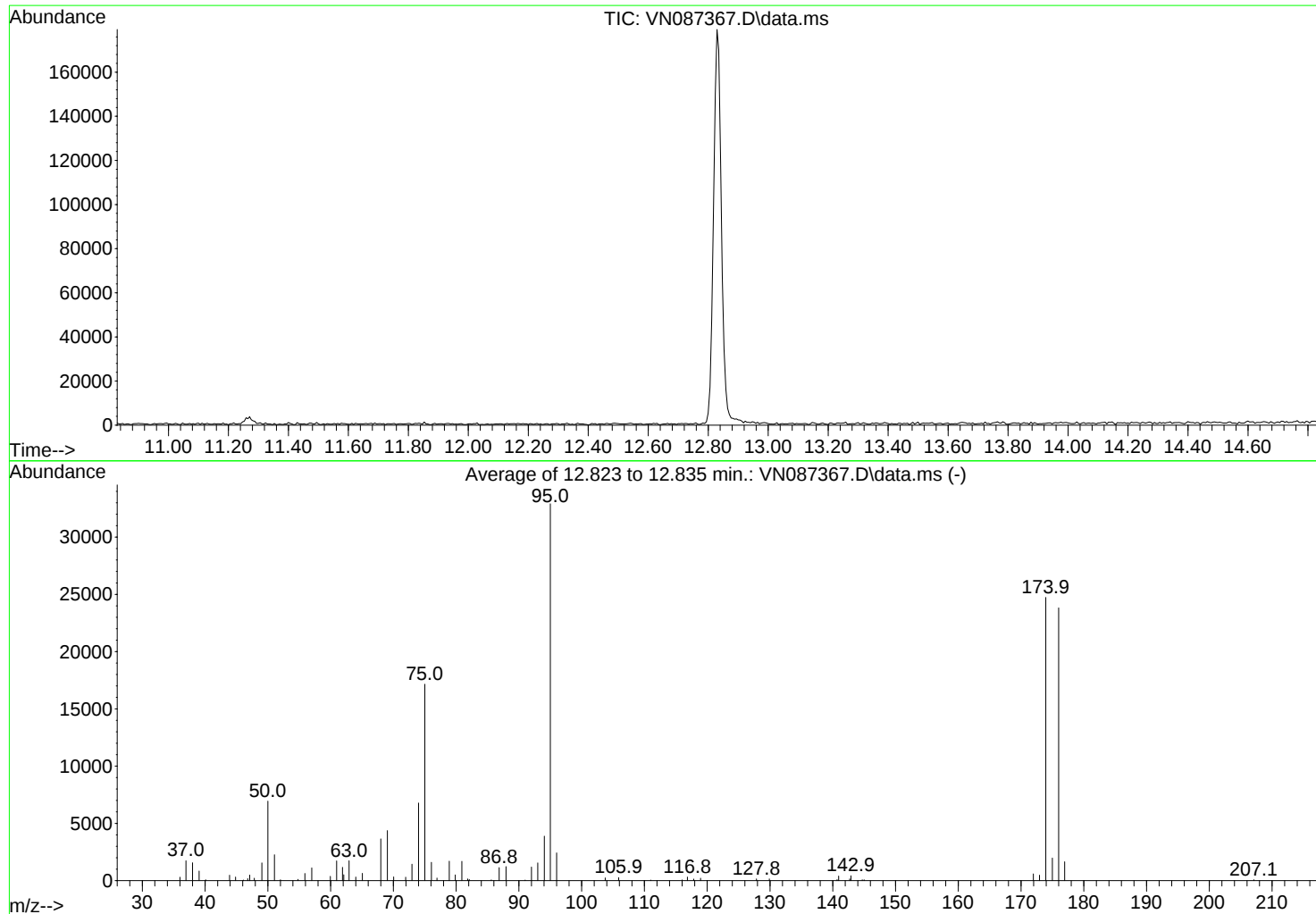
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
86.00	53	103.70	156	127.90	178	173.95	30229
86.95	1927	104.00	90	130.00	72	174.90	709
87.90	1486	104.80	81	136.80	89	175.05	1538
90.85	118	105.90	261	140.85	580	175.90	29285
91.10	107	112.80	55	142.90	707	176.90	2046
91.90	1340	115.90	151	144.90	80	281.10	60
93.00	2153	116.60	61	146.90	74		
94.00	5304	117.00	209	147.70	57		
95.00	42640	117.20	66	171.85	576		
95.95	2612	119.00	301	172.70	163		
96.80	56	124.10	52	173.00	255		

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN072125\
Data File : VN087367.D
Acq On : 21 Jul 2025 10:05
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\82N071625W.M
Title : SW846 8260
Last Update : Thu Jul 17 02:56:13 2025



AutoFind: Scans 1848, 1849, 1850; Background Corrected with Scan 1840

Target	Rel. to	Lower	Upper	Rel.	Raw	Result
Mass	Mass	Limit%	Limit%	Abn%	Abn	Pass/Fail
50	95	15	40	21.1	6948	PASS
75	95	30	60	52.1	17152	PASS
95	95	100	100	100.0	32912	PASS
96	95	5	9	7.4	2423	PASS
173	174	0.00	2	1.9	479	PASS
174	95	50	100	75.2	24736	PASS
175	174	5	9	8.0	1975	PASS
176	174	95	101	96.3	23816	PASS
177	176	5	9	6.9	1646	PASS

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.00	302	49.05	1549	62.95	1731	76.95	221
36.95	1740	50.00	6948	64.00	319	78.90	169
38.00	1561	51.05	2254	65.05	643	79.85	49
39.05	842	52.00	74	68.00	3653	80.90	169
40.10	77	54.80	114	69.05	4374	81.85	153
43.90	471	55.90	630	70.05	327	82.10	106
44.85	308	57.00	1107	71.95	303	85.60	68
46.10	51	59.95	371	72.95	1431	86.85	1142
46.80	171	60.95	1721	74.00	6775	87.95	1224
47.10	492	61.90	1159	75.00	17152	91.00	50
47.85	218	62.10	519	76.05	1599	92.00	1189

Average of 12.823 to 12.835 min.: VN087367.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
93.00	1549	127.85	157	175.00	1975		
94.05	3882	129.90	156	176.00	23816		
95.00	32912	140.70	89	176.95	1646		
96.00	2423	140.95	397	207.10	79		
103.75	235	142.70	154				
105.90	265	142.90	426				
111.00	53	144.70	81				
116.00	67	145.00	76				
116.85	315	171.95	587				
117.85	138	172.95	479				
118.95	211	173.95	24736				

Report of Analysis

Client:	G Environmental	Date Collected:	
Project:	Nelson	Date Received:	
Client Sample ID:	VN0721WBL01	SDG No.:	Q2664
Lab Sample ID:	VN0721WBL01	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

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

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	0.22	U	0.22	1.00	ug/L
74-87-3	Chloromethane	0.32	U	0.32	1.00	ug/L
75-01-4	Vinyl Chloride	0.26	U	0.26	1.00	ug/L
74-83-9	Bromomethane	1.40	U	1.40	5.00	ug/L
75-00-3	Chloroethane	0.47	U	0.47	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.33	U	0.33	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.25	U	0.25	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.23	U	0.23	1.00	ug/L
107-02-8	Acrolein	7.10	U	7.10	25.0	ug/L
75-15-0	Carbon Disulfide	0.21	U	0.21	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.16	U	0.16	1.00	ug/L
79-20-9	Methyl Acetate	0.27	U	0.27	1.00	ug/L
75-09-2	Methylene Chloride	0.28	U	0.28	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.23	U	0.23	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.23	U	0.23	1.00	ug/L
110-82-7	Cyclohexane	1.50	U	1.50	5.00	ug/L
78-93-3	2-Butanone	0.98	U	0.98	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.25	U	0.25	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.19	U	0.19	1.00	ug/L
74-97-5	Bromochloromethane	0.22	U	0.22	1.00	ug/L
67-66-3	Chloroform	0.25	U	0.25	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.20	U	0.20	1.00	ug/L
108-87-2	Methylcyclohexane	0.16	U	0.16	1.00	ug/L
71-43-2	Benzene	0.15	U	0.15	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.22	U	0.22	1.00	ug/L
79-01-6	Trichloroethene	0.090	U	0.090	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.20	U	0.20	1.00	ug/L
75-27-4	Bromodichloromethane	0.22	U	0.22	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	0.68	U	0.68	5.00	ug/L
108-88-3	Toluene	0.14	U	0.14	1.00	ug/L

Report of Analysis

Client:	G Environmental			Date Collected:	
Project:	Nelson			Date Received:	
Client Sample ID:	VN0721WBL01			SDG No.:	Q2664
Lab Sample ID:	VN0721WBL01			Matrix:	Water
Analytical Method:	8260D			% Solid:	0
Sample Wt/Vol:	5	Units:	mL	Final Vol:	5000 uL
Soil Aliquot Vol:			uL	Test:	VOCMS Group1
GC Column:	RXI-624	ID :	0.25	Level :	LOW
Prep Method :					

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

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	0.17	U	0.17	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.16	U	0.16	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.21	U	0.21	1.00	ug/L
591-78-6	2-Hexanone	0.89	U	0.89	5.00	ug/L
124-48-1	Dibromochloromethane	0.18	U	0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	0.15	U	0.15	1.00	ug/L
127-18-4	Tetrachloroethene	0.23	U	0.23	1.00	ug/L
108-90-7	Chlorobenzene	0.12	U	0.12	1.00	ug/L
100-41-4	Ethyl Benzene	0.13	U	0.13	1.00	ug/L
179601-23-1	m/p-Xylenes	0.24	U	0.24	2.00	ug/L
95-47-6	o-Xylene	0.12	U	0.12	1.00	ug/L
100-42-5	Styrene	0.15	U	0.15	1.00	ug/L
75-25-2	Bromoform	0.19	U	0.19	1.00	ug/L
98-82-8	Isopropylbenzene	0.12	U	0.12	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.26	U	0.26	1.00	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.14	U	0.14	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.16	U	0.16	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.19	U	0.19	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.16	U	0.16	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.53	U	0.53	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.20	U	0.20	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.20	U	0.20	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	54.7		74 - 125	109%	SPK: 50
1868-53-7	Dibromofluoromethane	51.3		75 - 124	103%	SPK: 50
2037-26-5	Toluene-d8	51.0		86 - 113	102%	SPK: 50
460-00-4	4-Bromofluorobenzene	46.4		77 - 121	93%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	164000	8.212			
540-36-3	1,4-Difluorobenzene	328000	9.083			
3114-55-4	Chlorobenzene-d5	301000	11.847			
3855-82-1	1,4-Dichlorobenzene-d4	133000	13.771			

Report of Analysis

Client:	G Environmental			Date Collected:	
Project:	Nelson			Date Received:	
Client Sample ID:	VN0721WBL01			SDG No.:	Q2664
Lab Sample ID:	VN0721WBL01			Matrix:	Water
Analytical Method:	8260D			% Solid:	0
Sample Wt/Vol:	5	Units:	mL	Final Vol:	5000 uL
Soil Aliquot Vol:			uL	Test:	VOCMS Group1
GC Column:	RXI-624	ID :	0.25	Level :	LOW
Prep Method :					

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

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
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U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN072125\
 Data File : VN087370.D
 Acq On : 21 Jul 2025 11:34
 Operator : JC\MD
 Sample : VN0721WBL01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0721WBL01

Quant Time: Jul 22 03:04:14 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N071625W.M
 Quant Title : SW846 8260
 QLast Update : Thu Jul 17 02:56:13 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.212	168	164239	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.083	114	328305	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.847	117	300772	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.771	152	133337	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.565	65	152384	54.681	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	109.360%
35) Dibromofluoromethane	8.153	113	116283	51.347	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	102.700%
50) Toluene-d8	10.547	98	411775	50.973	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	101.940%
62) 4-Bromofluorobenzene	12.829	95	138566	46.428	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	92.860%

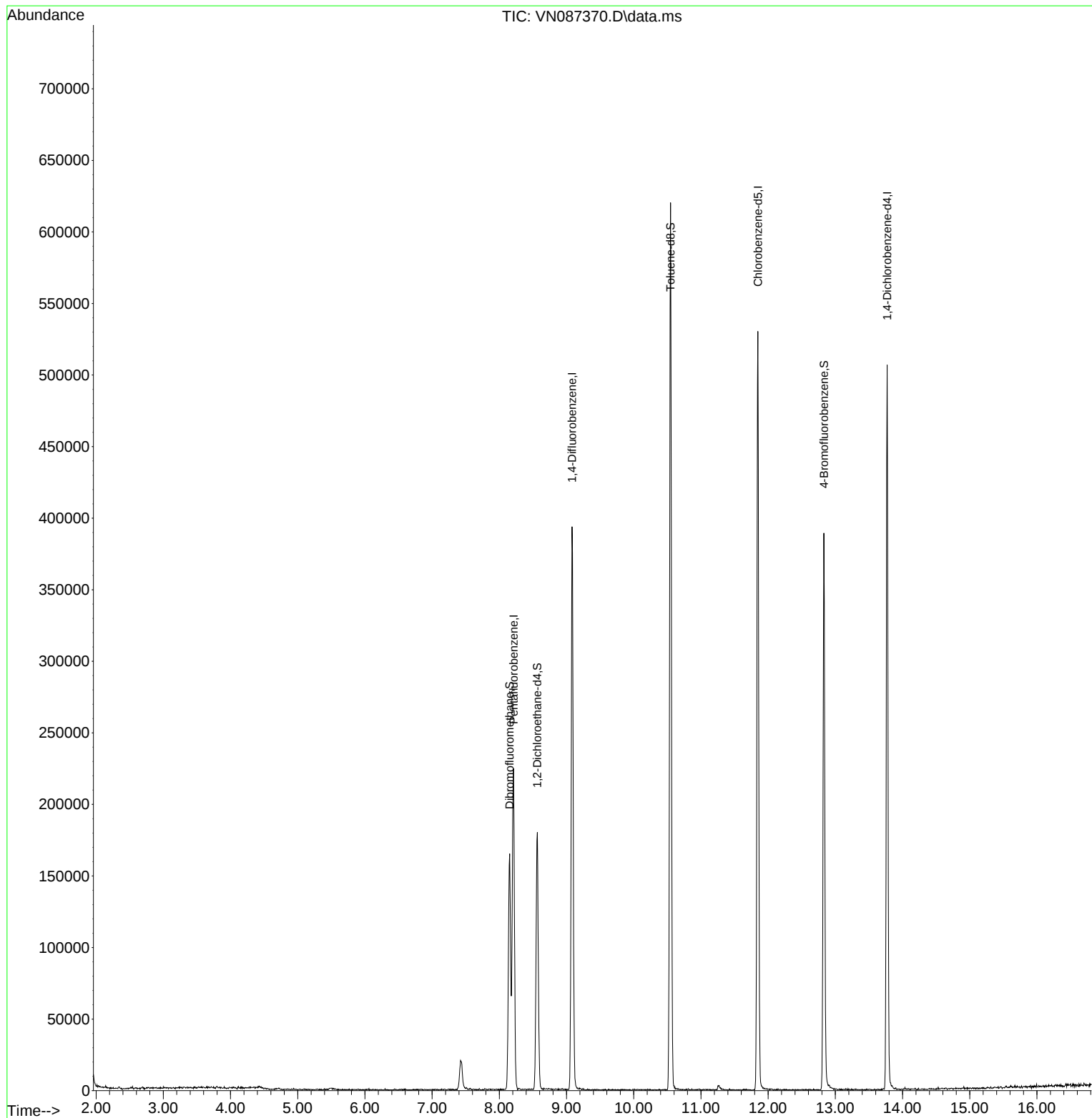
Target Compounds	Qvalue

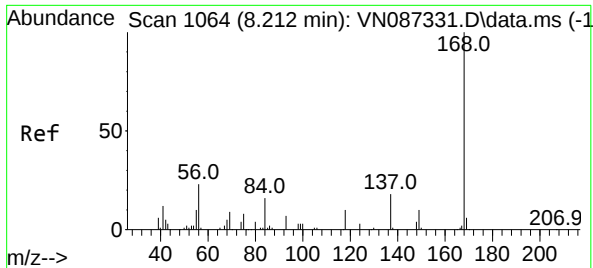
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN072125\
Data File : VN087370.D
Acq On : 21 Jul 2025 11:34
Operator : JC\MD
Sample : VN0721WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0721WBL01

Quant Time: Jul 22 03:04:14 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N071625W.M
Quant Title : SW846 8260
QLast Update : Thu Jul 17 02:56:13 2025
Response via : Initial Calibration

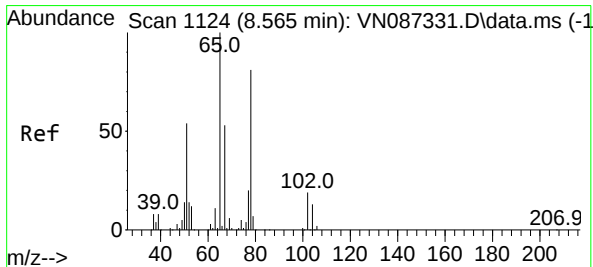
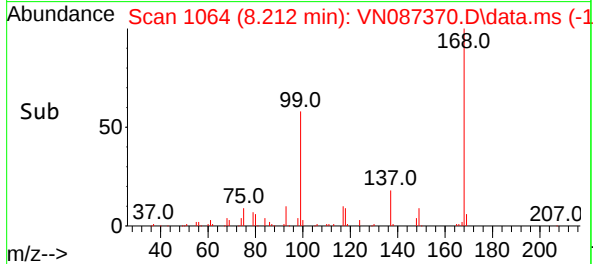
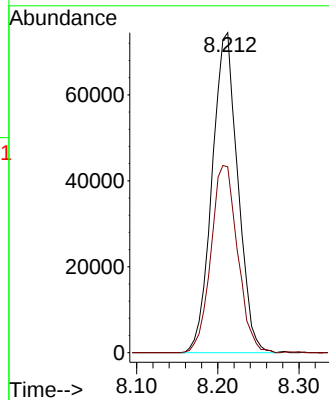
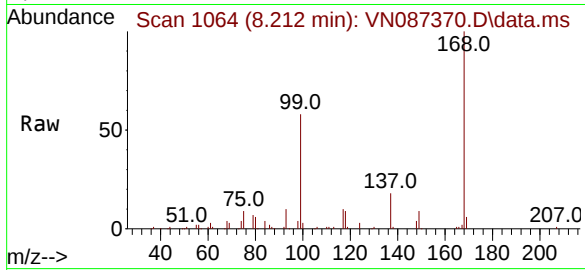




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.212 min Scan# 1064
Delta R.T. 0.000 min
Lab File: VN087370.D
Acq: 21 Jul 2025 11:34

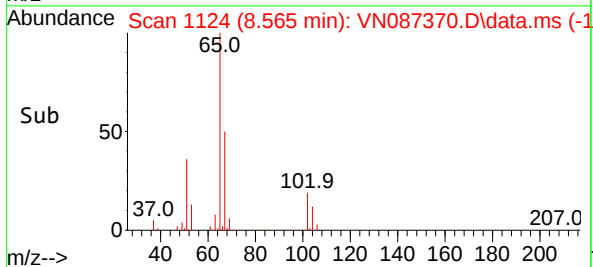
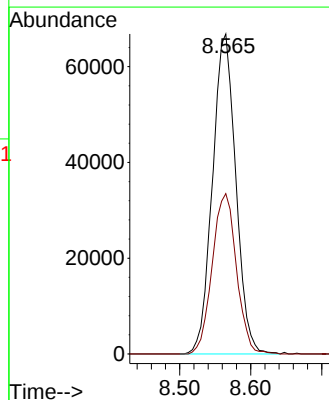
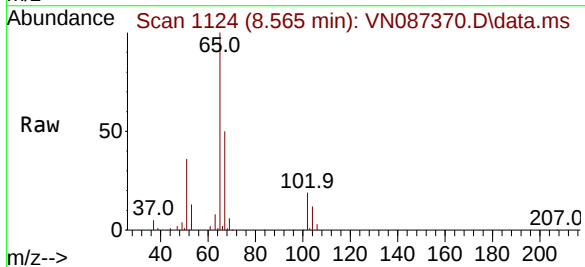
Instrument :
MSVOA_N
ClientSampleId :
VN0721WBL01

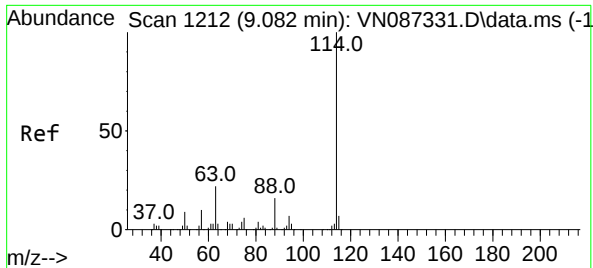
Tgt Ion:168 Resp: 164239
Ion Ratio Lower Upper
168 100
99 58.1 47.9 71.9



#33
1,2-Dichloroethane-d4
Concen: 54.681 ug/l
RT: 8.565 min Scan# 1124
Delta R.T. 0.000 min
Lab File: VN087370.D
Acq: 21 Jul 2025 11:34

Tgt Ion: 65 Resp: 152384
Ion Ratio Lower Upper
65 100
67 52.0 0.0 104.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.083 min Scan# 11

Delta R.T. 0.001 min

Lab File: VN087370.D

Acq: 21 Jul 2025 11:34

Instrument :

MSVOA_N

ClientSampleId :

VN0721WBL01

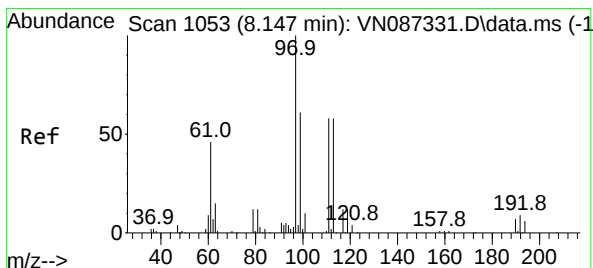
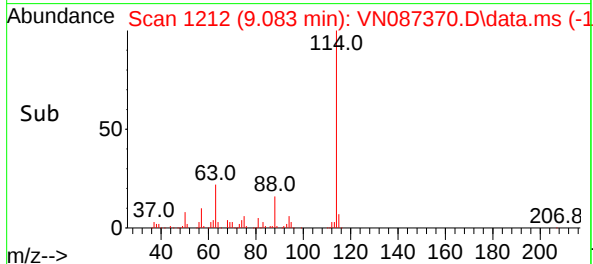
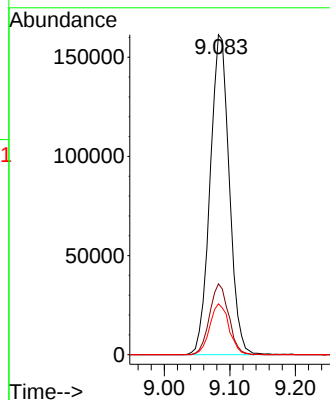
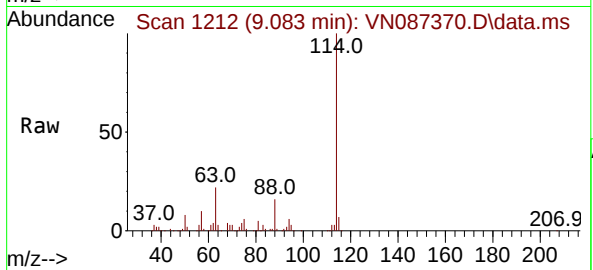
Tgt Ion:114 Resp: 328305

Ion Ratio Lower Upper

114 100

63 22.2 0.0 44.6

88 15.9 0.0 32.8



#35

Dibromofluoromethane

Concen: 51.347 ug/l

RT: 8.153 min Scan# 1054

Delta R.T. 0.006 min

Lab File: VN087370.D

Acq: 21 Jul 2025 11:34

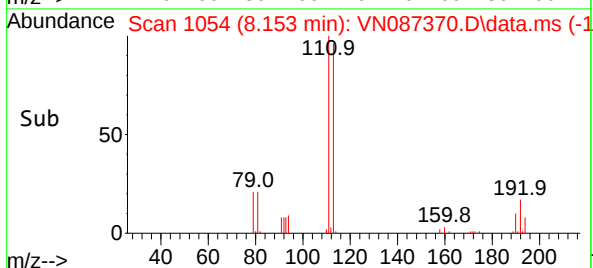
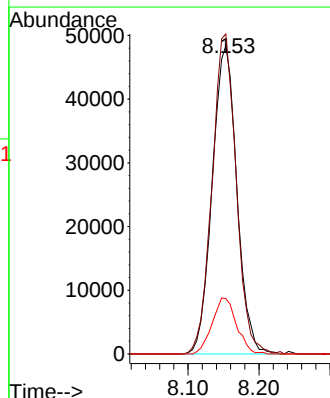
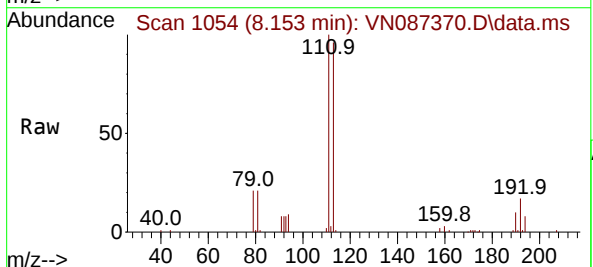
Tgt Ion:113 Resp: 116283

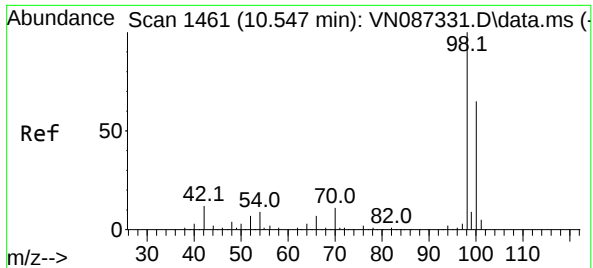
Ion Ratio Lower Upper

113 100

111 101.7 82.5 123.7

192 18.0 13.7 20.5

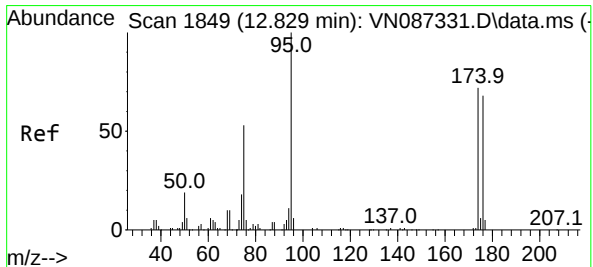
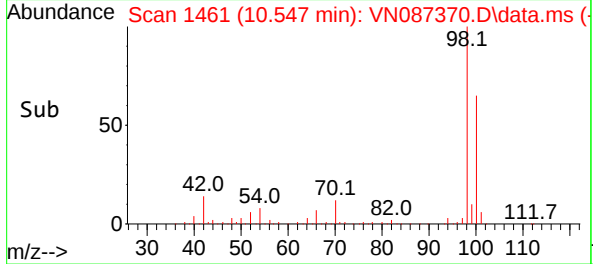
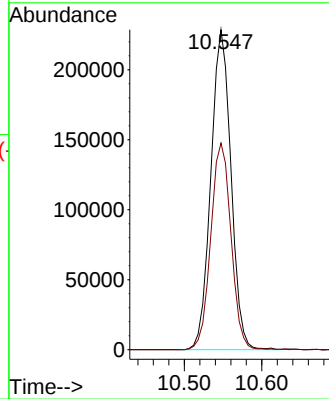
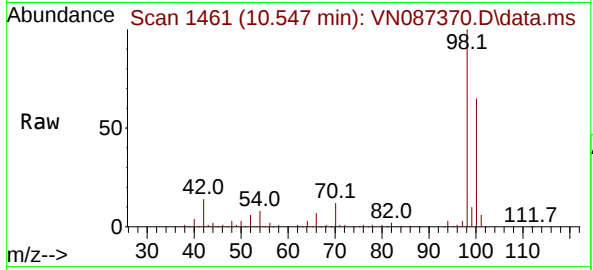




#50
Toluene-d8
Concen: 50.973 ug/l
RT: 10.547 min Scan# 1461
Delta R.T. 0.000 min
Lab File: VN087370.D
Acq: 21 Jul 2025 11:34

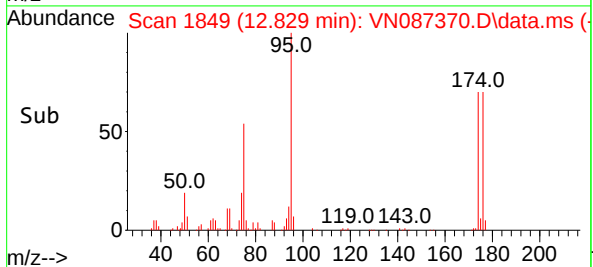
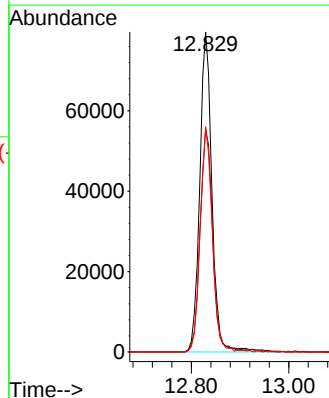
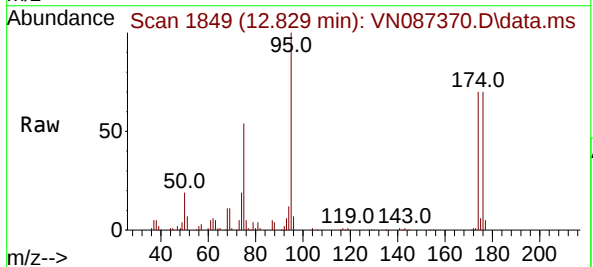
Instrument :
MSVOA_N
ClientSampleId :
VN0721WBL01

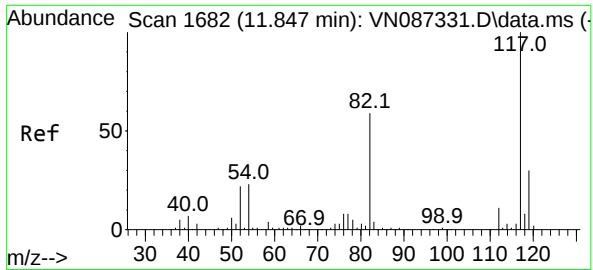
Tgt Ion: 98 Resp: 411775
Ion Ratio Lower Upper
98 100
100 65.0 52.1 78.1



#62
4-Bromofluorobenzene
Concen: 46.428 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.000 min
Lab File: VN087370.D
Acq: 21 Jul 2025 11:34

Tgt Ion: 95 Resp: 138566
Ion Ratio Lower Upper
95 100
174 71.3 0.0 149.4
176 70.0 0.0 141.2

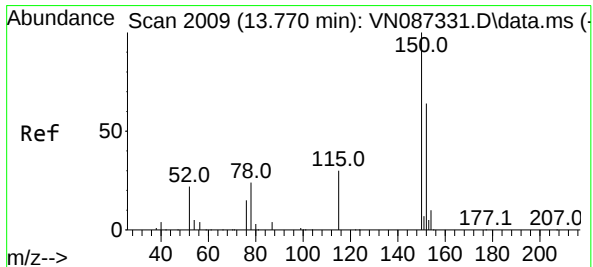
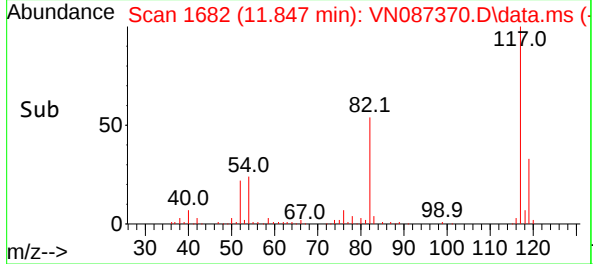
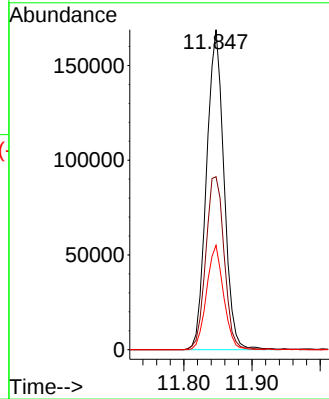
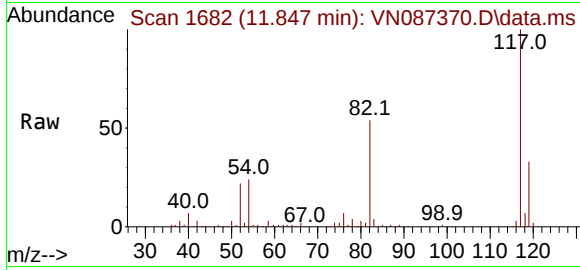




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.847 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN087370.D
Acq: 21 Jul 2025 11:34

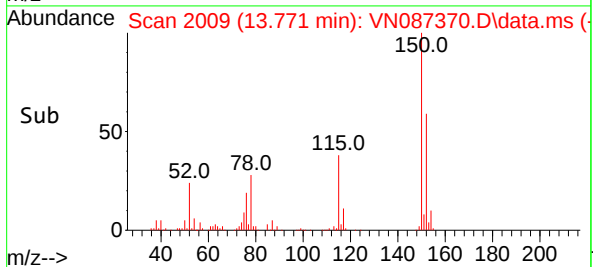
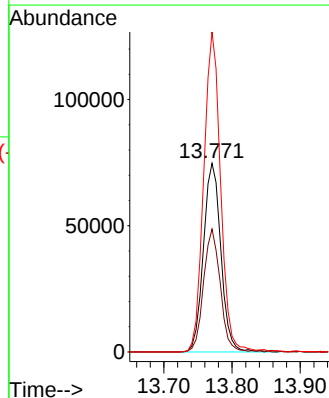
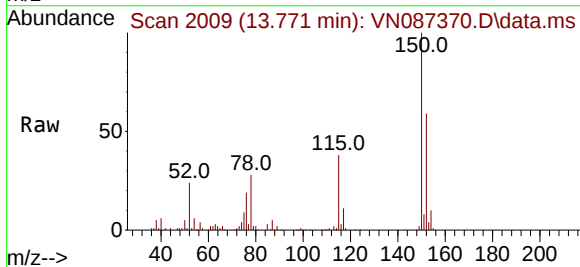
Instrument :
MSVOA_N
ClientSampleId :
VN0721WBL01

Tgt Ion:117 Resp: 300772
Ion Ratio Lower Upper
117 100
82 54.1 47.4 71.2
119 32.6 23.8 35.8



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.771 min Scan# 2009
Delta R.T. 0.000 min
Lab File: VN087370.D
Acq: 21 Jul 2025 11:34

Tgt Ion:152 Resp: 133337
Ion Ratio Lower Upper
152 100
115 62.5 31.1 93.5
150 164.0 0.0 349.0



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN072125\
Data File : VN087370.D
Acq On : 21 Jul 2025 11:34
Operator : JC\MD
Sample : VN0721WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0721WBL01

Integration Parameters: RTEINT.P

Integrator: RTE

Smoothing : ON

Sampling : 1

Start Thrs: 0.2

Stop Thrs : 0

Filtering: 5

Min Area: 3 % of largest Peak

Max Peaks: 100

Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >

Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N071625W.M

Title : SW846 8260

Signal : TIC: VN087370.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	7.424	921	930	942	rBV	20530	62679	5.60%	1.084%
2	8.153	1043	1054	1058	rBV	164711	381487	34.06%	6.598%
3	8.212	1058	1064	1074	rVB	224570	511925	45.70%	8.853%
4	8.565	1114	1124	1137	rBV	179724	412321	36.81%	7.131%
5	9.083	1203	1212	1227	rBV	393383	806859	72.04%	13.954%
6	10.547	1452	1461	1473	rBV	620225	1120091	100.00%	19.371%
7	11.847	1674	1682	1694	rBV	529955	951296	84.93%	16.452%
8	12.829	1841	1849	1860	rBV	389051	673661	60.14%	11.651%
9	13.771	2001	2009	2020	rBV	506181	861923	76.95%	14.906%

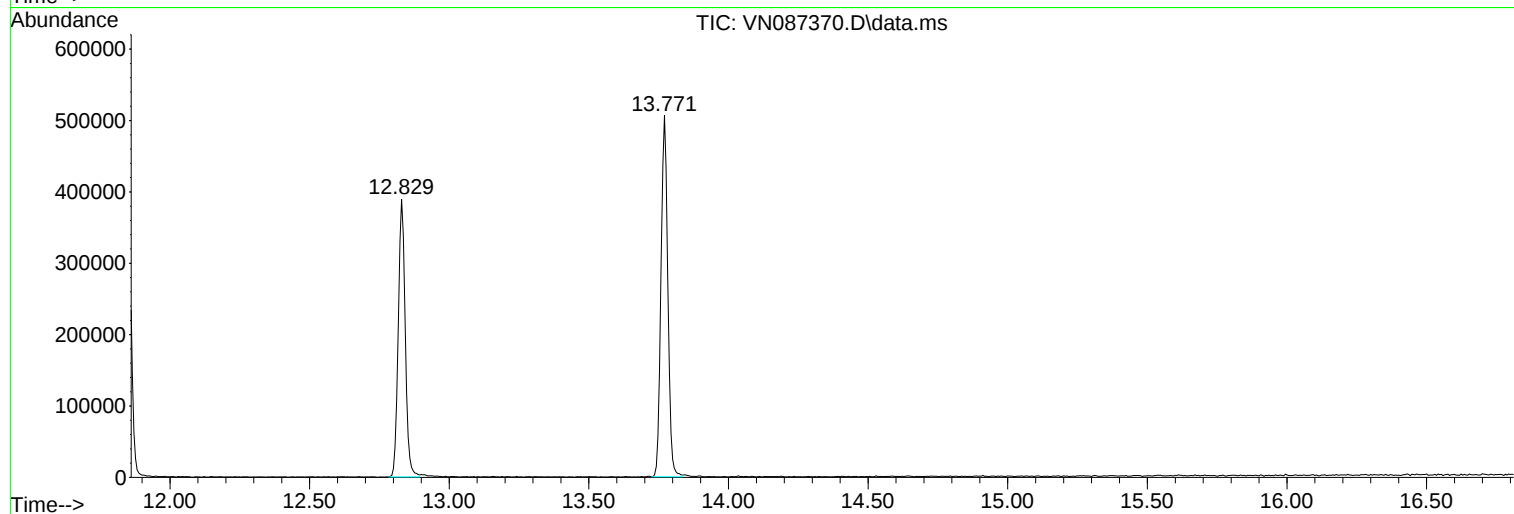
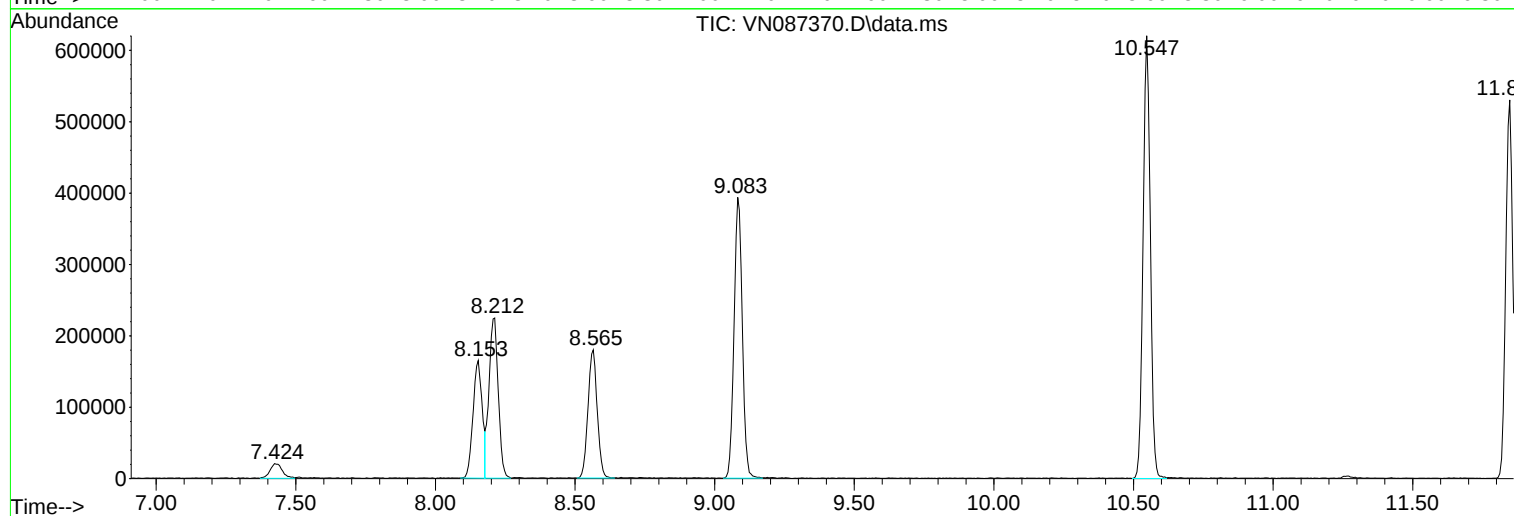
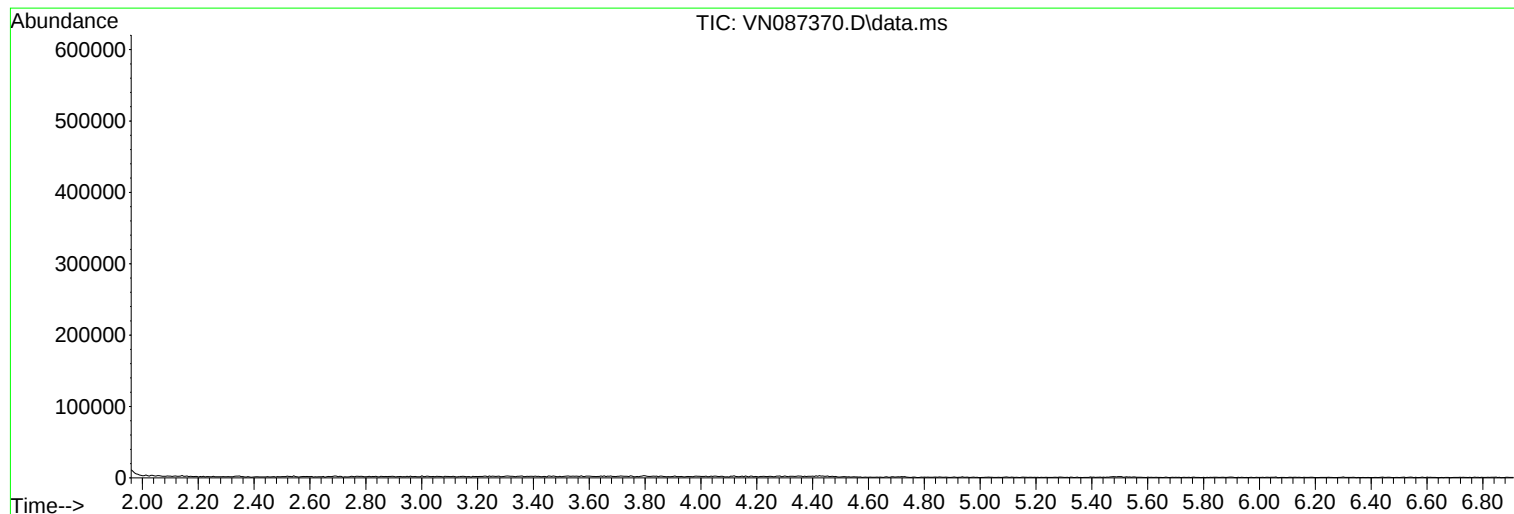
Sum of corrected areas: 5782242

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN072125\
Data File : VN087370.D
Acq On : 21 Jul 2025 11:34
Operator : JC\MD
Sample : VN0721WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0721WBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N071625W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN072125\
Data File : VN087370.D
Acq On : 21 Jul 2025 11:34
Operator : JC\MD
Sample : VN0721WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0721WBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N071625W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN072125\
Data File : VN087370.D
Acq On : 21 Jul 2025 11:34
Operator : JC\MD
Sample : VN0721WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0721WBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N071625W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	--Internal Standard--			
					#	RT	Resp	Conc

Report of Analysis

Client:	G Environmental			Date Collected:	
Project:	Nelson			Date Received:	
Client Sample ID:	VN0721WBS01			SDG No.:	Q2664
Lab Sample ID:	VN0721WBS01			Matrix:	Water
Analytical Method:	8260D			% Solid:	0
Sample Wt/Vol:	5	Units:	mL	Final Vol:	5000 uL
Soil Aliquot Vol:			uL	Test:	VOCMS Group1
GC Column:	RXI-624	ID :	0.25	Level :	LOW
Prep Method :					

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

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	21.9		0.22	1.00	ug/L
74-87-3	Chloromethane	18.8		0.32	1.00	ug/L
75-01-4	Vinyl Chloride	19.0		0.26	1.00	ug/L
74-83-9	Bromomethane	19.2		1.40	5.00	ug/L
75-00-3	Chloroethane	18.1		0.47	1.00	ug/L
75-69-4	Trichlorofluoromethane	19.1		0.33	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	20.4		0.25	1.00	ug/L
75-35-4	1,1-Dichloroethene	18.1		0.23	1.00	ug/L
107-02-8	Acrolein	83.6		7.10	25.0	ug/L
75-15-0	Carbon Disulfide	18.4		0.21	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	17.2		0.16	1.00	ug/L
79-20-9	Methyl Acetate	17.6		0.27	1.00	ug/L
75-09-2	Methylene Chloride	17.3		0.28	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	17.8		0.23	1.00	ug/L
75-34-3	1,1-Dichloroethane	17.6		0.23	1.00	ug/L
110-82-7	Cyclohexane	20.1		1.50	5.00	ug/L
78-93-3	2-Butanone	86.4		0.98	5.00	ug/L
56-23-5	Carbon Tetrachloride	19.6		0.25	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	18.0		0.19	1.00	ug/L
74-97-5	Bromochloromethane	17.8		0.22	1.00	ug/L
67-66-3	Chloroform	17.9		0.25	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	18.6		0.20	1.00	ug/L
108-87-2	Methylcyclohexane	20.9		0.16	1.00	ug/L
71-43-2	Benzene	19.4		0.15	1.00	ug/L
107-06-2	1,2-Dichloroethane	18.3		0.22	1.00	ug/L
79-01-6	Trichloroethene	18.8		0.090	1.00	ug/L
78-87-5	1,2-Dichloropropane	19.3		0.20	1.00	ug/L
75-27-4	Bromodichloromethane	18.3		0.22	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	92.0		0.68	5.00	ug/L
108-88-3	Toluene	19.2		0.14	1.00	ug/L

Report of Analysis

Client:	G Environmental		Date Collected:	
Project:	Nelson		Date Received:	
Client Sample ID:	VN0721WBS01		SDG No.:	Q2664
Lab Sample ID:	VN0721WBS01		Matrix:	Water
Analytical Method:	8260D		% Solid:	0
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group1
GC Column:	RXI-624	ID : 0.25	Level :	LOW
Prep Method :				

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

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	18.7		0.17	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	18.7		0.16	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	18.7		0.21	1.00	ug/L
591-78-6	2-Hexanone	91.6		0.89	5.00	ug/L
124-48-1	Dibromochloromethane	18.8		0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	17.4		0.15	1.00	ug/L
127-18-4	Tetrachloroethene	18.3		0.23	1.00	ug/L
108-90-7	Chlorobenzene	18.6		0.12	1.00	ug/L
100-41-4	Ethyl Benzene	18.1		0.13	1.00	ug/L
179601-23-1	m/p-Xylenes	39.5		0.24	2.00	ug/L
95-47-6	o-Xylene	18.4		0.12	1.00	ug/L
100-42-5	Styrene	19.3		0.15	1.00	ug/L
75-25-2	Bromoform	18.2		0.19	1.00	ug/L
98-82-8	Isopropylbenzene	19.5		0.12	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	18.5		0.26	1.00	ug/L
95-63-6	1,2,4-Trimethylbenzene	20.1		0.14	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	19.1		0.16	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	18.0		0.19	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	19.3		0.16	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	16.3		0.53	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	19.3		0.20	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	19.0		0.20	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	47.3		74 - 125	95%	SPK: 50
1868-53-7	Dibromofluoromethane	48.8		75 - 124	98%	SPK: 50
2037-26-5	Toluene-d8	50.4		86 - 113	101%	SPK: 50
460-00-4	4-Bromofluorobenzene	49.9		77 - 121	100%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	195000	8.206			
540-36-3	1,4-Difluorobenzene	337000	9.088			
3114-55-4	Chlorobenzene-d5	309000	11.847			
3855-82-1	1,4-Dichlorobenzene-d4	161000	13.77			

Report of Analysis

Client:	G Environmental	Date Collected:	
Project:	Nelson	Date Received:	
Client Sample ID:	VN0721WBS01	SDG No.:	Q2664
Lab Sample ID:	VN0721WBS01	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

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

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
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U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN072125\
 Data File : VN087371.D
 Acq On : 21 Jul 2025 11:55
 Operator : JC\MD
 Sample : VN0721WBS01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0721WBS01

Manual Integrations
 APPROVED

Reviewed By :John Carlone 07/22/2025
 Supervised By :Mahesh Dadoda 07/22/2025

Quant Time: Jul 22 03:04:34 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N071625W.M
 Quant Title : SW846 8260
 QLast Update : Thu Jul 17 02:56:13 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.206	168	195078	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.088	114	337215	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.847	117	308523	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.770	152	161452	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.559	65	156616	47.315	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	94.640%		
35) Dibromofluoromethane	8.153	113	113549	48.815	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	97.640%		
50) Toluene-d8	10.547	98	418084	50.387	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	100.780%		
62) 4-Bromofluorobenzene	12.829	95	152963	49.898	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	99.800%		
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	2.142	85	45478	21.949	ug/l	93
3) Chloromethane	2.389	50	49057	18.828	ug/l	96
4) Vinyl Chloride	2.542	62	49167	18.988	ug/l	97
5) Bromomethane	2.983	94	25728	19.187	ug/l	97
6) Chloroethane	3.142	64	30502	18.063	ug/l	92
7) Trichlorofluoromethane	3.512	101	73088	19.089	ug/l	89
8) Diethyl Ether	3.965	74	25832	17.392	ug/l	98
9) 1,1,2-Trichlorotrifluo...	4.365	101	40048	20.375	ug/l	98
10) Methyl Iodide	4.577	142	28199	18.006	ug/l	98
11) Tert butyl alcohol	5.524	59	53952	85.841	ug/l	98
12) 1,1-Dichloroethene	4.336	96	40303	18.095	ug/l	95
13) Acrolein	4.183	56	42192	83.649	ug/l	93
14) Allyl chloride	5.018	41	69156	17.157	ug/l	99
15) Acrylonitrile	5.712	53	142826	83.743	ug/l	99
16) Acetone	4.424	43	133162	85.801	ug/l	99
17) Carbon Disulfide	4.706	76	121611	18.416	ug/l	95
18) Methyl Acetate	5.018	43	68652	17.607	ug/l	98
19) Methyl tert-butyl Ether	5.794	73	140893	17.162	ug/l	97
20) Methylene Chloride	5.271	84	46556	17.327	ug/l	89
21) trans-1,2-Dichloroethene	5.771	96	44578	17.750	ug/l	92
22) Diisopropyl ether	6.659	45	157889	18.674	ug/l	94
23) Vinyl Acetate	6.588	43	694729	93.948	ug/l	99
24) 1,1-Dichloroethane	6.559	63	85653	17.559	ug/l	98
25) 2-Butanone	7.471	43	207099	86.364	ug/l	99
26) 2,2-Dichloropropane	7.477	77	77666	20.479	ug/l	96
27) cis-1,2-Dichloroethene	7.471	96	51900	17.950	ug/l	98
28) Bromochloromethane	7.800	49	41440	17.751	ug/l	99
29) Tetrahydrofuran	7.830	42	131520	84.427	ug/l	99
30) Chloroform	7.947	83	87539	17.929	ug/l	97
31) Cyclohexane	8.241	56	81992	20.149	ug/l	93
32) 1,1,1-Trichloroethane	8.153	97	78792	18.632	ug/l	97
36) 1,1-Dichloropropene	8.359	75	61263	19.935	ug/l	100
37) Ethyl Acetate	7.553	43	78541	17.696	ug/l	96
38) Carbon Tetrachloride	8.347	117	66297	19.583	ug/l	93
39) Methylcyclohexane	9.582	83	69647	20.933	ug/l #	91
40) Benzene	8.588	78	192485	19.379	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN072125\
 Data File : VN087371.D
 Acq On : 21 Jul 2025 11:55
 Operator : JC\MD
 Sample : VN0721WBS01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0721WBS01

Manual Integrations
 APPROVED

Reviewed By :John Carlone 07/22/2025
 Supervised By :Mahesh Dadoda 07/22/2025

Quant Time: Jul 22 03:04:34 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N071625W.M
 Quant Title : SW846 8260
 QLast Update : Thu Jul 17 02:56:13 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.765	41	41272	17.784	ug/l	96
42) 1,2-Dichloroethane	8.653	62	68935	18.301	ug/l	99
43) Isopropyl Acetate	8.677	43	124383	18.053	ug/l	100
44) Trichloroethene	9.335	130	44065	18.776	ug/l	86
45) 1,2-Dichloropropane	9.600	63	48604	19.258	ug/l #	87
46) Dibromomethane	9.694	93	34607	18.314	ug/l	98
47) Bromodichloromethane	9.871	83	69750	18.326	ug/l	94
48) Methyl methacrylate	9.665	41	55452	17.877	ug/l	97
49) 1,4-Dioxane	9.677	88	17060	359.104	ug/l #	97
51) 4-Methyl-2-Pentanone	10.429	43	401014	92.023	ug/l	99
52) Toluene	10.612	92	116138	19.237	ug/l	99
53) t-1,3-Dichloropropene	10.818	75	72070	18.710	ug/l	100
54) cis-1,3-Dichloropropene	10.294	75	74540	18.734	ug/l	96
55) 1,1,2-Trichloroethane	11.000	97	45751	18.718	ug/l #	87
56) Ethyl methacrylate	10.859	69	66938	17.074	ug/l	97
57) 1,3-Dichloropropane	11.141	76	78676	18.617	ug/l	99
58) 2-Chloroethyl Vinyl ether	10.141	63	195869	97.690	ug/l	100
59) 2-Hexanone	11.176	43	264794	91.587	ug/l	99
60) Dibromochloromethane	11.341	129	52477	18.826	ug/l	96
61) 1,2-Dibromoethane	11.453	107	44615	17.360	ug/l	99
64) Tetrachloroethene	11.082	164	36432	18.347	ug/l	97
65) Chlorobenzene	11.871	112	128645	18.573	ug/l	97
66) 1,1,1,2-Tetrachloroethane	11.941	131	44082	18.716	ug/l	99
67) Ethyl Benzene	11.941	91	206561	18.115	ug/l	99
68) m/p-Xylenes	12.053	106	168727	39.515	ug/l	98
69) o-Xylene	12.376	106	75002	18.388	ug/l	100
70) Styrene	12.394	104	132593	19.325	ug/l	99
71) Bromoform	12.559	173	34591	18.179	ug/l #	97
73) Isopropylbenzene	12.676	105	198119	19.497	ug/l	98
74) N-amyl acetate	12.512	43	82883m	19.632	ug/l	
75) 1,1,2,2-Tetrachloroethane	12.918	83	70547	18.451	ug/l	98
76) 1,2,3-Trichloropropane	12.970	75	61699m	17.042	ug/l	
77) Bromobenzene	12.959	156	49824	18.906	ug/l	99
78) n-propylbenzene	13.018	91	256928	20.096	ug/l	100
79) 2-Chlorotoluene	13.106	91	152583	19.419	ug/l	97
80) 1,3,5-Trimethylbenzene	13.153	105	174332	20.136	ug/l	99
81) trans-1,4-Dichloro-2-b...	12.723	75	22951	17.345	ug/l	95
82) 4-Chlorotoluene	13.200	91	154290	18.861	ug/l	99
83) tert-Butylbenzene	13.417	119	146165	20.214	ug/l	97
84) 1,2,4-Trimethylbenzene	13.459	105	177920	20.123	ug/l	100
85) sec-Butylbenzene	13.594	105	220837	20.275	ug/l	99
86) p-Isopropyltoluene	13.706	119	181563	20.801	ug/l	99
87) 1,3-Dichlorobenzene	13.712	146	98893	19.120	ug/l	98
88) 1,4-Dichlorobenzene	13.788	146	99576	18.026	ug/l	95
89) n-Butylbenzene	14.035	91	170515	20.458	ug/l	99
90) Hexachloroethane	14.306	117	36514	19.744	ug/l	96
91) 1,2-Dichlorobenzene	14.082	146	94733	19.334	ug/l	95
92) 1,2-Dibromo-3-Chloropr...	14.694	75	16367	16.304	ug/l	95
93) 1,2,4-Trichlorobenzene	15.370	180	55564	19.305	ug/l	99
94) Hexachlorobutadiene	15.476	225	24726	23.120	ug/l	96
95) Naphthalene	15.617	128	175395	17.202	ug/l	99
96) 1,2,3-Trichlorobenzene	15.811	180	54756	18.966	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN072125\
Data File : VN087371.D
Acq On : 21 Jul 2025 11:55
Operator : JC\MD
Sample : VN0721WBS01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0721WBS01

Manual Integrations
APPROVED

Reviewed By :John Carlone 07/22/2025
Supervised By :Mahesh Dadoda 07/22/2025

Quant Time: Jul 22 03:04:34 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N071625W.M
Quant Title : SW846 8260
QLast Update : Thu Jul 17 02:56:13 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
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(#) = qualifier out of range (m) = manual integration (+) = signals summed

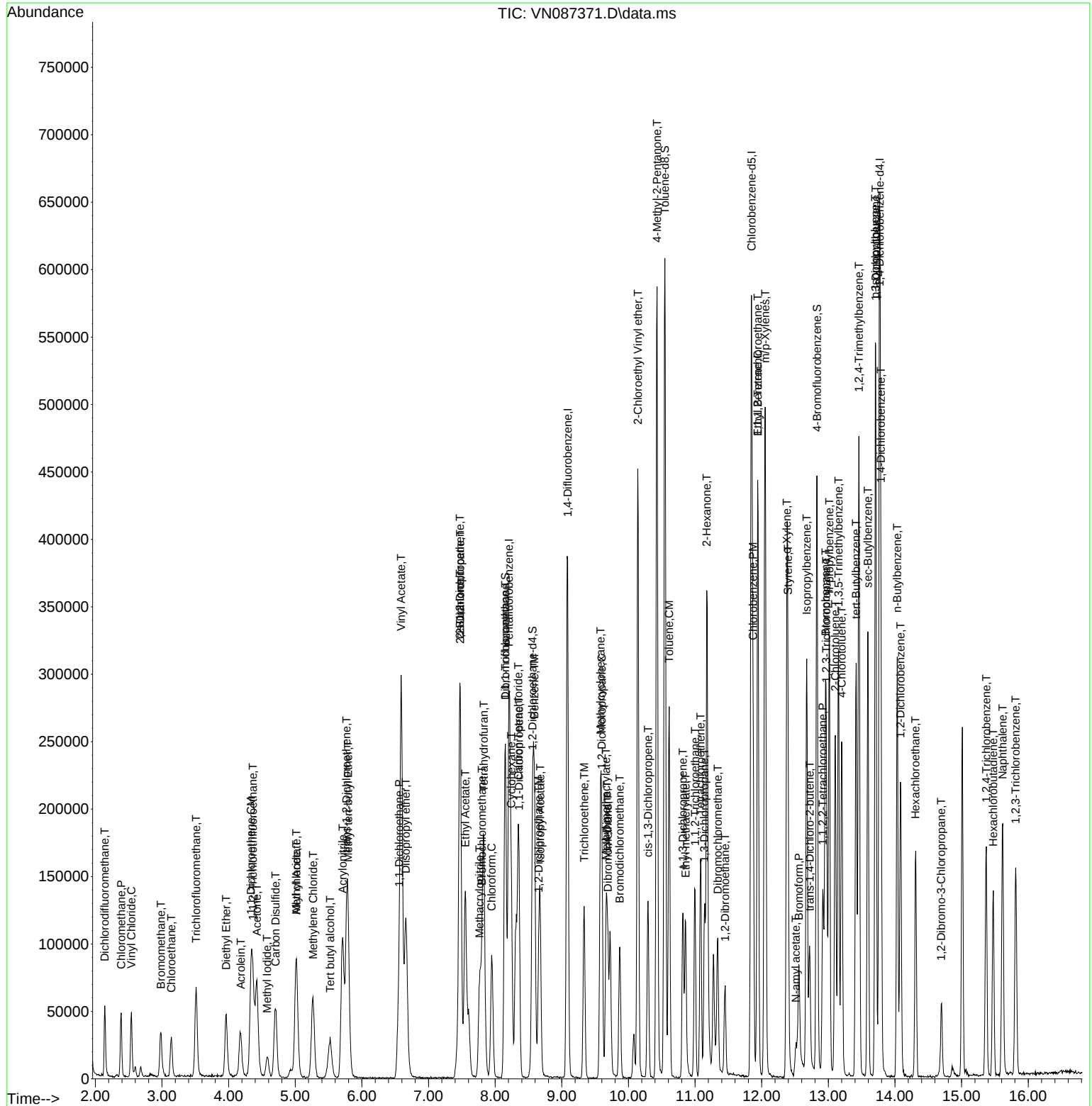
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Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN072125\  
Data File : VN087371.D  
Acq On    : 21 Jul 2025  11:55  
Operator  : JC\MD  
Sample    : VN0721WBS01  
Misc      : 5.0mL/MSVOA_N/WATER  
ALS Vial  : 5      Sample Multiplier: 1
```

Instrument :
MSVOA_N
ClientSampleId :
VN0721WBS01

Manual Integrations

Reviewed By :John Carlone 07/22/2025
Supervised By :Mahesh Dadoda 07/22/2025

Quant Time: Jul 22 03:04:34 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N071625W.M
Quant Title : SW846 8260
QLast Update : Thu Jul 17 02:56:13 2025
Response via : Initial Calibration



Report of Analysis

Client:	G Environmental	Date Collected:	
Project:	Nelson	Date Received:	
Client Sample ID:	VN0721WBSD01	SDG No.:	Q2664
Lab Sample ID:	VN0721WBSD01	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5	Units:	mL
Soil Aliquot Vol:			uL
GC Column:	RXI-624	ID :	0.25
Prep Method :		Level :	LOW

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

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	22.4		0.22	1.00	ug/L
74-87-3	Chloromethane	18.8		0.32	1.00	ug/L
75-01-4	Vinyl Chloride	19.0		0.26	1.00	ug/L
74-83-9	Bromomethane	19.8		1.40	5.00	ug/L
75-00-3	Chloroethane	18.5		0.47	1.00	ug/L
75-69-4	Trichlorofluoromethane	19.7		0.33	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	19.6		0.25	1.00	ug/L
75-35-4	1,1-Dichloroethene	17.6		0.23	1.00	ug/L
107-02-8	Acrolein	87.1		7.10	25.0	ug/L
75-15-0	Carbon Disulfide	18.6		0.21	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	18.0		0.16	1.00	ug/L
79-20-9	Methyl Acetate	18.3		0.27	1.00	ug/L
75-09-2	Methylene Chloride	17.7		0.28	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	17.9		0.23	1.00	ug/L
75-34-3	1,1-Dichloroethane	18.2		0.23	1.00	ug/L
110-82-7	Cyclohexane	19.8		1.50	5.00	ug/L
78-93-3	2-Butanone	88.2		0.98	5.00	ug/L
56-23-5	Carbon Tetrachloride	19.8		0.25	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	18.4		0.19	1.00	ug/L
74-97-5	Bromochloromethane	18.6		0.22	1.00	ug/L
67-66-3	Chloroform	18.4		0.25	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	18.9		0.20	1.00	ug/L
108-87-2	Methylcyclohexane	20.9		0.16	1.00	ug/L
71-43-2	Benzene	19.2		0.15	1.00	ug/L
107-06-2	1,2-Dichloroethane	18.8		0.22	1.00	ug/L
79-01-6	Trichloroethene	18.8		0.090	1.00	ug/L
78-87-5	1,2-Dichloropropane	19.3		0.20	1.00	ug/L
75-27-4	Bromodichloromethane	18.8		0.22	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	94.0		0.68	5.00	ug/L
108-88-3	Toluene	19.5		0.14	1.00	ug/L

Report of Analysis

Client:	G Environmental	Date Collected:	
Project:	Nelson	Date Received:	
Client Sample ID:	VN0721WBSD01	SDG No.:	Q2664
Lab Sample ID:	VN0721WBSD01	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5	Units:	mL
Soil Aliquot Vol:			uL
GC Column:	RXI-624	ID :	0.25
Prep Method :		Level :	LOW

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

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	18.6		0.17	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	19.4		0.16	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	19.6		0.21	1.00	ug/L
591-78-6	2-Hexanone	93.7		0.89	5.00	ug/L
124-48-1	Dibromochloromethane	18.4		0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	18.9		0.15	1.00	ug/L
127-18-4	Tetrachloroethene	19.3		0.23	1.00	ug/L
108-90-7	Chlorobenzene	18.6		0.12	1.00	ug/L
100-41-4	Ethyl Benzene	18.7		0.13	1.00	ug/L
179601-23-1	m/p-Xylenes	38.8		0.24	2.00	ug/L
95-47-6	o-Xylene	18.8		0.12	1.00	ug/L
100-42-5	Styrene	19.4		0.15	1.00	ug/L
75-25-2	Bromoform	18.8		0.19	1.00	ug/L
98-82-8	Isopropylbenzene	19.3		0.12	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	19.0		0.26	1.00	ug/L
95-63-6	1,2,4-Trimethylbenzene	19.9		0.14	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	19.3		0.16	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	18.4		0.19	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	19.7		0.16	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	16.6		0.53	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	18.5		0.20	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	18.4		0.20	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	47.2		74 - 125	94%	SPK: 50
1868-53-7	Dibromofluoromethane	50.3		75 - 124	101%	SPK: 50
2037-26-5	Toluene-d8	50.6		86 - 113	101%	SPK: 50
460-00-4	4-Bromofluorobenzene	50.0		77 - 121	100%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	191000	8.206			
540-36-3	1,4-Difluorobenzene	329000	9.082			
3114-55-4	Chlorobenzene-d5	296000	11.847			
3855-82-1	1,4-Dichlorobenzene-d4	159000	13.77			

Report of Analysis

Client:	G Environmental	Date Collected:	
Project:	Nelson	Date Received:	
Client Sample ID:	VN0721WBSD01	SDG No.:	Q2664
Lab Sample ID:	VN0721WBSD01	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

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

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
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U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN072125\
 Data File : VN087372.D
 Acq On : 21 Jul 2025 12:30
 Operator : JC\MD
 Sample : VN0721WBSD01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0721WBSD01

Manual Integrations
 APPROVED

Reviewed By : John Carlone 07/22/2025
 Supervised By : Semsettin Yesilyurt 07/22/2025

Quant Time: Jul 22 03:05:24 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N071625W.M
 Quant Title : SW846 8260
 QLast Update : Thu Jul 17 02:56:13 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.206	168	190787	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.082	114	328848	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.847	117	296338	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.770	152	158557	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.565	65	152790	47.198	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	94.400%		
35) Dibromofluoromethane	8.147	113	114140	50.318	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	100.640%		
50) Toluene-d8	10.547	98	409499	50.608	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	101.220%		
62) 4-Bromofluorobenzene	12.829	95	149416	49.981	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	99.960%		
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	2.142	85	45407	22.408	ug/l	90
3) Chloromethane	2.383	50	47847	18.776	ug/l	91
4) Vinyl Chloride	2.542	62	48142	19.010	ug/l	92
5) Bromomethane	2.983	94	26007	19.831	ug/l	98
6) Chloroethane	3.136	64	30475	18.453	ug/l	100
7) Trichlorofluoromethane	3.512	101	73764	19.698	ug/l	88
8) Diethyl Ether	3.959	74	25592	17.618	ug/l	89
9) 1,1,2-Trichlorotrifluo...	4.359	101	37700	19.612	ug/l	98
10) Methyl Iodide	4.577	142	30353	19.251	ug/l	98
11) Tert butyl alcohol	5.518	59	56647	92.156	ug/l	99
12) 1,1-Dichloroethene	4.330	96	38399	17.628	ug/l	93
13) Acrolein	4.177	56	42955	87.077	ug/l	98
14) Allyl chloride	5.018	41	65923	16.722	ug/l	98
15) Acrylonitrile	5.706	53	148783	89.198	ug/l	99
16) Acetone	4.430	43	126421	83.289	ug/l	99
17) Carbon Disulfide	4.700	76	119923	18.569	ug/l	96
18) Methyl Acetate	5.018	43	69706	18.279	ug/l	99
19) Methyl tert-butyl Ether	5.789	73	144862	18.042	ug/l	99
20) Methylene Chloride	5.265	84	46355	17.652	ug/l	95
21) trans-1,2-Dichloroethene	5.771	96	43844	17.851	ug/l	86
22) Diisopropyl ether	6.659	45	157443	19.040	ug/l #	95
23) Vinyl Acetate	6.589	43	712495	98.517	ug/l	99
24) 1,1-Dichloroethane	6.547	63	86682	18.170	ug/l	97
25) 2-Butanone	7.471	43	206854	88.202	ug/l	99
26) 2,2-Dichloropropane	7.471	77	75365	20.319	ug/l	98
27) cis-1,2-Dichloroethene	7.471	96	52133	18.436	ug/l	96
28) Bromochloromethane	7.800	49	42566	18.643	ug/l	99
29) Tetrahydrofuran	7.830	42	136575	89.644	ug/l	96
30) Chloroform	7.947	83	87803	18.388	ug/l	99
31) Cyclohexane	8.235	56	78716	19.779	ug/l	98
32) 1,1,1-Trichloroethane	8.153	97	78287	18.929	ug/l	93
36) 1,1-Dichloropropene	8.353	75	59988	20.016	ug/l	99
37) Ethyl Acetate	7.547	43	77704	17.953	ug/l	98
38) Carbon Tetrachloride	8.347	117	65528	19.849	ug/l	99
39) Methylcyclohexane	9.582	83	67946	20.941	ug/l	96
40) Benzene	8.588	78	185496	19.151	ug/l	97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN072125\
 Data File : VN087372.D
 Acq On : 21 Jul 2025 12:30
 Operator : JC\MD
 Sample : VN0721WBSD01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0721WBSD01

Manual Integrations
 APPROVED

Reviewed By :John Carlone 07/22/2025
 Supervised By :Semsettin Yesilyurt 07/22/2025

Quant Time: Jul 22 03:05:24 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N071625W.M
 Quant Title : SW846 8260
 QLast Update : Thu Jul 17 02:56:13 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.765	41	40867	18.057	ug/l	95
42) 1,2-Dichloroethane	8.653	62	69079	18.806	ug/l	99
43) Isopropyl Acetate	8.671	43	127752	19.014	ug/l	99
44) Trichloroethene	9.335	130	43070	18.818	ug/l	96
45) 1,2-Dichloropropane	9.606	63	47601	19.341	ug/l	100
46) Dibromomethane	9.694	93	34895	18.937	ug/l	99
47) Bromodichloromethane	9.865	83	69620	18.757	ug/l	98
48) Methyl methacrylate	9.665	41	57104	18.878	ug/l	99
49) 1,4-Dioxane	9.688	88	16301	351.858	ug/l #	93
51) 4-Methyl-2-Pentanone	10.429	43	399338	93.970	ug/l	99
52) Toluene	10.612	92	114736	19.488	ug/l	97
53) t-1,3-Dichloropropene	10.818	75	70010	18.637	ug/l	96
54) cis-1,3-Dichloropropene	10.294	75	75349	19.419	ug/l	97
55) 1,1,2-Trichloroethane	10.994	97	46825	19.645	ug/l	88
56) Ethyl methacrylate	10.859	69	69998	18.249	ug/l	95
57) 1,3-Dichloropropane	11.147	76	78181	18.971	ug/l	97
58) 2-Chloroethyl Vinyl ether	10.141	63	202470	103.552	ug/l	100
59) 2-Hexanone	11.176	43	264149	93.688	ug/l	99
60) Dibromochloromethane	11.341	129	49899	18.357	ug/l	100
61) 1,2-Dibromoethane	11.447	107	47255	18.856	ug/l	95
64) Tetrachloroethene	11.082	164	36839	19.315	ug/l	95
65) Chlorobenzene	11.871	112	123556	18.571	ug/l	94
66) 1,1,1,2-Tetrachloroethane	11.941	131	43600	19.273	ug/l	100
67) Ethyl Benzene	11.941	91	204755	18.695	ug/l	100
68) m/p-Xylenes	12.047	106	159328	38.848	ug/l	100
69) o-Xylene	12.382	106	73560	18.777	ug/l	97
70) Styrene	12.394	104	127855	19.400	ug/l	99
71) Bromoform	12.559	173	34274	18.753	ug/l #	96
73) Isopropylbenzene	12.676	105	192540	19.294	ug/l	100
74) N-amyl acetate	12.518	43	83031m	20.026	ug/l	
75) 1,1,2,2-Tetrachloroethane	12.918	83	71491	19.039	ug/l	99
76) 1,2,3-Trichloropropane	12.976	75	62574m	17.599	ug/l	
77) Bromobenzene	12.959	156	48290	18.659	ug/l	98
78) n-propylbenzene	13.018	91	243308	19.379	ug/l	100
79) 2-Chlorotoluene	13.106	91	143207	18.559	ug/l	97
80) 1,3,5-Trimethylbenzene	13.153	105	162843	19.152	ug/l	96
81) trans-1,4-Dichloro-2-b...	12.718	75	22418	17.252	ug/l	98
82) 4-Chlorotoluene	13.206	91	148212	18.449	ug/l	98
83) tert-Butylbenzene	13.418	119	138461	19.498	ug/l	99
84) 1,2,4-Trimethylbenzene	13.459	105	172373	19.852	ug/l	98
85) sec-Butylbenzene	13.594	105	212425	19.859	ug/l	100
86) p-Isopropyltoluene	13.706	119	175039	20.419	ug/l	99
87) 1,3-Dichlorobenzene	13.712	146	98015	19.297	ug/l	98
88) 1,4-Dichlorobenzene	13.788	146	99611	18.362	ug/l	98
89) n-Butylbenzene	14.035	91	168514	20.587	ug/l	99
90) Hexachloroethane	14.312	117	35162	19.360	ug/l	98
91) 1,2-Dichlorobenzene	14.082	146	94601	19.659	ug/l	94
92) 1,2-Dibromo-3-Chloropr...	14.700	75	16412	16.647	ug/l	98
93) 1,2,4-Trichlorobenzene	15.370	180	52419	18.545	ug/l	99
94) Hexachlorobutadiene	15.476	225	24088	22.935	ug/l	99
95) Naphthalene	15.617	128	172523	17.229	ug/l	99
96) 1,2,3-Trichlorobenzene	15.817	180	52053	18.358	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN072125\
Data File : VN087372.D
Acq On : 21 Jul 2025 12:30
Operator : JC\MD
Sample : VN0721WBSD01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0721WBSD01

Manual Integrations
APPROVED

Reviewed By :John Carlone 07/22/2025
Supervised By :Semsettin Yesilyurt 07/22/2025

Quant Time: Jul 22 03:05:24 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N071625W.M
Quant Title : SW846 8260
QLast Update : Thu Jul 17 02:56:13 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
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(#) = qualifier out of range (m) = manual integration (+) = signals summed

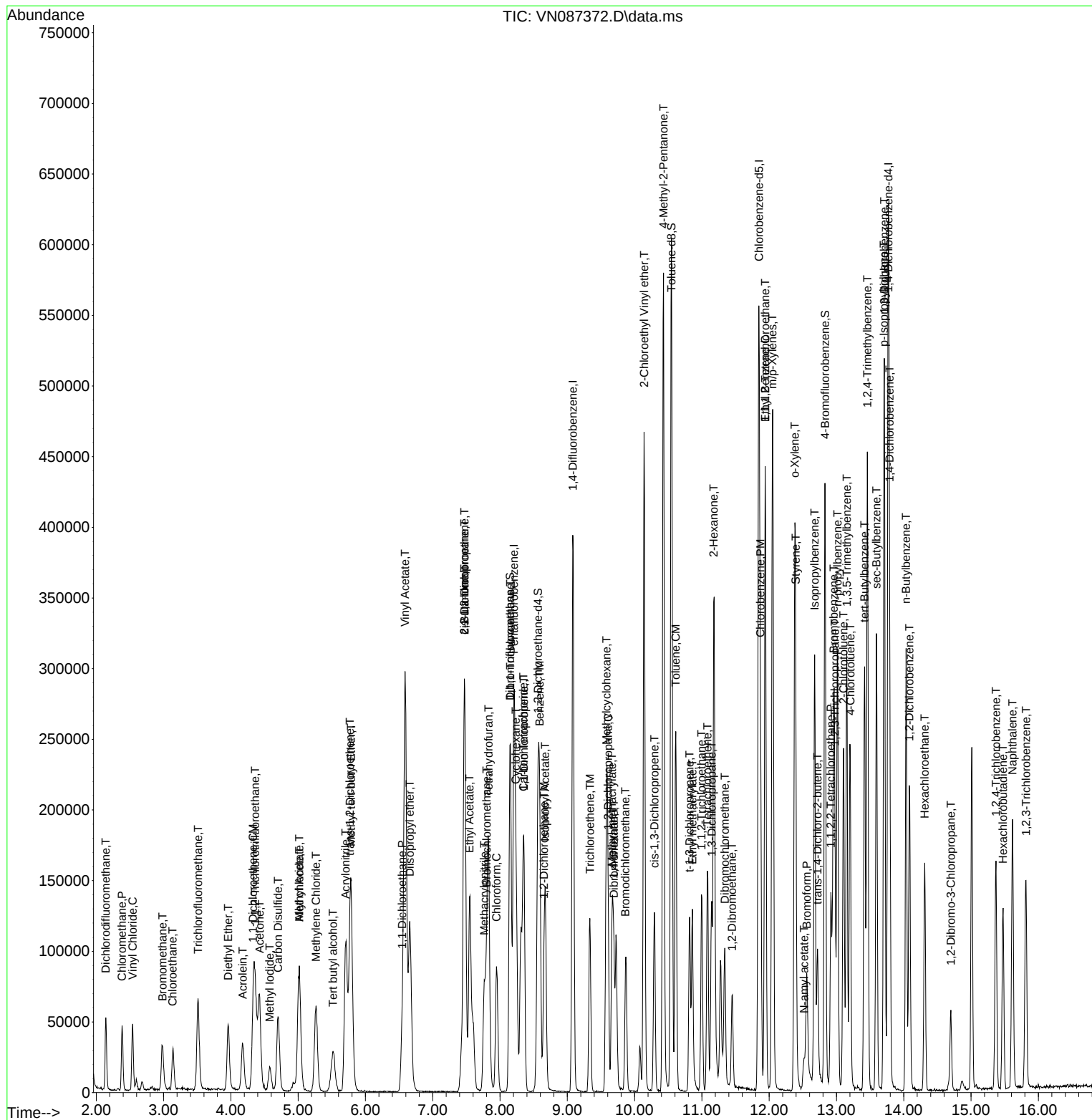
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Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN072125\  
Data File : VN087372.D  
Acq On    : 21 Jul 2025 12:30  
Operator  : JC\MD  
Sample    : VN0721WBSD01  
Misc      : 5.0mL/MSVOA_N/WATER  
ALS Vial  : 6      Sample Multiplier: 1
```

Instrument :
MSVOA_N
ClientSampleId :
VN0721WBSD01

Manual Integrations

Reviewed By :John Carlone 07/22/2025
Supervised By :Semsettin Yesilyurt 07/22/2025

Quant Time: Jul 22 03:05:24 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N071625W.M
Quant Title : SW846 8260
QLast Update : Thu Jul 17 02:56:13 2025
Response via : Initial Calibration



Manual Integration Report

Sequence:	VN071625	Instrument	MSVOA_n
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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC001	VN087328.D	1,2,3-Trichloropropane	MMDadod a	7/17/2025 8:19:52 AM	Sam	7/17/2025 8:24:59 AM	Peak Integrated by Software
VSTDICC001	VN087328.D	1,4-Dichlorobenzene	MMDadod a	7/17/2025 8:19:52 AM	Sam	7/17/2025 8:24:59 AM	Peak Integrated by Software
VSTDICC001	VN087328.D	Acetone	MMDadod a	7/17/2025 8:19:52 AM	Sam	7/17/2025 8:24:59 AM	Peak Integrated by Software
VSTDICC001	VN087328.D	Allyl chloride	MMDadod a	7/17/2025 8:19:52 AM	Sam	7/17/2025 8:24:59 AM	Peak Integrated by Software
VSTDICC001	VN087328.D	Methyl tert-butyl Ether	MMDadod a	7/17/2025 8:19:52 AM	Sam	7/17/2025 8:24:59 AM	Peak Integrated by Software
VSTDICC001	VN087328.D	N-amyl acetate	MMDadod a	7/17/2025 8:19:52 AM	Sam	7/17/2025 8:24:59 AM	Peak Integrated by Software
VSTDICC005	VN087329.D	1,2,3-Trichloropropane	MMDadod a	7/17/2025 8:19:53 AM	Sam	7/17/2025 8:24:55 AM	Peak Integrated by Software
VSTDICC005	VN087329.D	Methyl Iodide	MMDadod a	7/17/2025 8:19:53 AM	Sam	7/17/2025 8:24:55 AM	Peak Integrated by Software
VSTDICC005	VN087329.D	N-amyl acetate	MMDadod a	7/17/2025 8:19:53 AM	Sam	7/17/2025 8:24:55 AM	Peak Integrated by Software
VSTDICC020	VN087330.D	1,2,3-Trichloropropane	MMDadod a	7/17/2025 8:19:54 AM	Sam	7/17/2025 8:24:56 AM	Peak Integrated by Software
VSTDICC020	VN087330.D	N-amyl acetate	MMDadod a	7/17/2025 8:19:54 AM	Sam	7/17/2025 8:24:56 AM	Peak Integrated by Software
VSTDICCC050	VN087331.D	1,2,3-Trichloropropane	MMDadod a	7/17/2025 8:19:56 AM	Sam	7/17/2025 8:25:01 AM	Peak Integrated by Software
VSTDICCC050	VN087331.D	N-amyl acetate	MMDadod a	7/17/2025 8:19:56 AM	Sam	7/17/2025 8:25:01 AM	Peak Integrated by Software

Manual Integration Report

Sequence:

VN071625

Instrument

MSVOA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC100	VN087332.D	1,2,3-Trichloropropane	MMDadoda	7/17/2025 8:19:58 AM	Sam	7/17/2025 8:25:00 AM	Peak Integrated by Software
VSTDICC150	VN087333.D	1,2,3-Trichloropropane	MMDadoda	7/17/2025 8:19:59 AM	Sam	7/17/2025 8:25:02 AM	Peak Integrated by Software
VSTDICV050	VN087335.D	1,2,3-Trichloropropane	MMDadoda	7/17/2025 8:20:01 AM	Sam	7/17/2025 8:25:03 AM	Peak Integrated by Software
VSTDICV050	VN087335.D	N-amyl acetate	MMDadoda	7/17/2025 8:20:01 AM	Sam	7/17/2025 8:25:03 AM	Peak Integrated by Software

Manual Integration Report

Sequence:

vn072125

Instrument

MSVOA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC050	VN087368.D	1,2,3-Trichloropropane	JOHN	7/22/2025 9:00:11 AM	MMDadoda	7/22/2025 1:40:43 PM	Peak Integrated by Software
VN0721WBS01	VN087371.D	1,2,3-Trichloropropane	JOHN	7/22/2025 9:00:17 AM	MMDadoda	7/22/2025 1:40:41 PM	Peak Integrated by Software
VN0721WBS01	VN087371.D	N-amyl acetate	JOHN	7/22/2025 9:00:17 AM	MMDadoda	7/22/2025 1:40:41 PM	Peak Integrated by Software
VN0721WBSD0 1	VN087372.D	1,2,3-Trichloropropane	JOHN	7/22/2025 9:00:21 AM	SAM	7/22/2025 1:54:42 PM	Peak Integrated by Software
VN0721WBSD0 1	VN087372.D	N-amyl acetate	JOHN	7/22/2025 9:00:21 AM	SAM	7/22/2025 1:54:42 PM	Peak Integrated by Software
VSTDCCC050	VN087387.D	1,2,3-Trichloropropane	JOHN	7/22/2025 9:00:47 AM	MMDadoda	7/22/2025 1:40:38 PM	Peak Integrated by Software

Instrument ID: **MSVOA_N**

Daily Analysis Runlog For Sequence/QC Batch ID # VN071625

Review By	Mahesh Dadoda	Review On	7/17/2025 8:20:05 AM
Supervise By	Semsettin Yesilyurt	Supervise On	7/17/2025 8:25:10 AM
SubDirectory	VN071625	HP Acquire Method	HP Processing Method 82N071625W.M
STD. NAME	STD REF.#		
Tune/Reschk	VP134794		
Initial Calibration Stds	VP134795,VP134796,VP134797,VP134798,VP134799,VP134800		
CCC			
Internal Standard/PEM			
ICV/I.BLK	VP134801		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VN087327.D	16 Jul 2025 16:10	JC\MD	Ok
2	VSTDIC001	VN087328.D	16 Jul 2025 17:05	JC\MD	Ok,M
3	VSTDIC005	VN087329.D	16 Jul 2025 17:27	JC\MD	Ok,M
4	VSTDIC020	VN087330.D	16 Jul 2025 17:49	JC\MD	Ok,M
5	VSTDIC050	VN087331.D	16 Jul 2025 18:11	JC\MD	Ok,M
6	VSTDIC100	VN087332.D	16 Jul 2025 18:32	JC\MD	Ok,M
7	VSTDIC150	VN087333.D	16 Jul 2025 18:54	JC\MD	Ok,M
8	IBLK	VN087334.D	16 Jul 2025 19:16	JC\MD	Ok
9	VSTDICV050	VN087335.D	16 Jul 2025 19:59	JC\MD	Ok,M

M : Manual Integration

Instrument ID: **MSVOA_N**

Daily Analysis Runlog For Sequence/QC Batch ID # VN072125

Review By	John Carlone	Review On	7/22/2025 9:07:37 AM
Supervise By	Maresh Dadoda	Supervise On	7/22/2025 1:40:47 PM
SubDirectory	VN072125	HP Acquire Method	HP Processing Method 82N071625W.M
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	VP134840		
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP134841,VP134842		

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VN087367.D	21 Jul 2025 10:05	JC\MD	Ok
2	VSTDCCC050	VN087368.D	21 Jul 2025 10:38	JC\MD	Ok,M
3	VN0721MBL01	VN087369.D	21 Jul 2025 11:13	JC\MD	Ok
4	VN0721WBL01	VN087370.D	21 Jul 2025 11:34	JC\MD	Ok
5	VN0721WBS01	VN087371.D	21 Jul 2025 11:55	JC\MD	Ok,M
6	VN0721WBSD01	VN087372.D	21 Jul 2025 12:30	JC\MD	Ok,M
7	Q2646-01	VN087373.D	21 Jul 2025 12:51	JC\MD	Ok
8	IBLK	VN087374.D	21 Jul 2025 13:13	JC\MD	Ok
9	PB168920TB	VN087375.D	21 Jul 2025 13:34	JC\MD	Ok
10	Q2641-02	VN087376.D	21 Jul 2025 13:55	JC\MD	Ok
11	Q2645-03	VN087377.D	21 Jul 2025 14:16	JC\MD	Ok
12	Q2649-04	VN087378.D	21 Jul 2025 14:38	JC\MD	Ok
13	Q2649-08	VN087379.D	21 Jul 2025 14:59	JC\MD	Ok,M
14	Q2649-12	VN087380.D	21 Jul 2025 15:20	JC\MD	Ok
15	Q2649-16	VN087381.D	21 Jul 2025 15:42	JC\MD	Ok
16	Q2649-20	VN087382.D	21 Jul 2025 16:03	JC\MD	Ok
17	Q2649-24	VN087383.D	21 Jul 2025 16:24	JC\MD	Ok
18	PB168921TB	VN087384.D	21 Jul 2025 16:46	JC\MD	Ok
19	Q2646-03	VN087385.D	21 Jul 2025 17:07	JC\MD	Ok
20	Q2664-01	VN087386.D	21 Jul 2025 17:29	JC\MD	Ok
21	VSTDCCC050	VN087387.D	21 Jul 2025 17:50	JC\MD	Ok,M

M : Manual Integration

Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QC Batch ID # VN071625

Review By	Maresh Dadoda	Review On	7/17/2025 8:20:05 AM
Supervise By	Semsettin Yesilyurt	Supervise On	7/17/2025 8:25:10 AM
SubDirectory	VN071625	HP Acquire Method	HP Processing Method 82N071625W.M

STD. NAME	STD REF.#
Tune/Reschk Initial Calibration Stds CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP134794 VP134795,VP134796,VP134797,VP134798,VP134799,VP134800 VP134801

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VN087327.D	16 Jul 2025 16:10		JC\MD	Ok
2	VSTDICC001	VSTDICC001	VN087328.D	16 Jul 2025 17:05		JC\MD	Ok,M
3	VSTDICC005	VSTDICC005	VN087329.D	16 Jul 2025 17:27	% d fail for com.#10 in 5 ppb	JC\MD	Ok,M
4	VSTDICC020	VSTDICC020	VN087330.D	16 Jul 2025 17:49	LR- 10,20	JC\MD	Ok,M
5	VSTDICCC050	VSTDICCC050	VN087331.D	16 Jul 2025 18:11	QR- 56	JC\MD	Ok,M
6	VSTDICC100	VSTDICC100	VN087332.D	16 Jul 2025 18:32		JC\MD	Ok,M
7	VSTDICC150	VSTDICC150	VN087333.D	16 Jul 2025 18:54		JC\MD	Ok,M
8	IBLK	IBLK	VN087334.D	16 Jul 2025 19:16		JC\MD	Ok
9	VSTDICV050	ICVVN071625	VN087335.D	16 Jul 2025 19:59		JC\MD	Ok,M

M : Manual Integration

Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QC Batch ID # VN072125

Review By	John Carlone	Review On	7/22/2025 9:07:37 AM
Supervise By	Maresh Dadoda	Supervise On	7/22/2025 1:40:47 PM
SubDirectory	VN072125	HP Acquire Method	HP Processing Method 82N071625W.M

STD. NAME	STD REF.#
Tune/Reschk Initial Calibration Stds	VP134840
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP134841,VP134842

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VN087367.D	21 Jul 2025 10:05		JC\MD	Ok
2	VSTDCCC050	VSTDCCC050	VN087368.D	21 Jul 2025 10:38	pH#Lot#V12668	JC\MD	Ok,M
3	VN0721MBL01	VN0721MBL01	VN087369.D	21 Jul 2025 11:13		JC\MD	Ok
4	VN0721WBL01	VN0721WBL01	VN087370.D	21 Jul 2025 11:34		JC\MD	Ok
5	VN0721WBS01	VN0721WBS01	VN087371.D	21 Jul 2025 11:55		JC\MD	Ok,M
6	VN0721WBSD01	VN0721WBSD01	VN087372.D	21 Jul 2025 12:30		JC\MD	Ok,M
7	Q2646-01	FRAC TANK	VN087373.D	21 Jul 2025 12:51	vial A pH<2	JC\MD	Ok
8	IBLK	IBLK	VN087374.D	21 Jul 2025 13:13		JC\MD	Ok
9	PB168920TB	PB168920TB	VN087375.D	21 Jul 2025 13:34		JC\MD	Ok
10	Q2641-02	P001-CONCRETE001-	VN087376.D	21 Jul 2025 13:55	vial A pH#5.0	JC\MD	Ok
11	Q2645-03	RW5B-CARBON-20250	VN087377.D	21 Jul 2025 14:16	vial A pH#5.0	JC\MD	Ok
12	Q2649-04	WC-1	VN087378.D	21 Jul 2025 14:38	vial A pH#5.0	JC\MD	Ok
13	Q2649-08	WC-2	VN087379.D	21 Jul 2025 14:59	vial A pH#5.0	JC\MD	Ok,M
14	Q2649-12	WC-3	VN087380.D	21 Jul 2025 15:20	vial A pH#5.0	JC\MD	Ok
15	Q2649-16	WC-4	VN087381.D	21 Jul 2025 15:42	vial A pH#5.0	JC\MD	Ok
16	Q2649-20	WC-5	VN087382.D	21 Jul 2025 16:03	vial A pH#5.0	JC\MD	Ok
17	Q2649-24	WC-6	VN087383.D	21 Jul 2025 16:24	vial A pH#5.0	JC\MD	Ok
18	PB168921TB	PB168921TB	VN087384.D	21 Jul 2025 16:46		JC\MD	Ok

Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QC Batch ID # VN072125

Review By	John Carlone	Review On	7/22/2025 9:07:37 AM
Supervise By	Maresh Dadoda	Supervise On	7/22/2025 1:40:47 PM
SubDirectory	VN072125	HP Acquire Method	HP Processing Method 82N071625W.M

STD. NAME	STD REF.#
Tune/Reschk Initial Calibration Stds	VP134840
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP134841,VP134842

19	Q2646-03	FRAC TANK	VN087385.D	21 Jul 2025 17:07	vial A pH#5.0	JC\MD	Ok
20	Q2664-01	GDW3	VN087386.D	21 Jul 2025 17:29	vial A pH<2	JC\MD	Ok
21	VSTDCCC050	VSTDCCC050EC	VN087387.D	21 Jul 2025 17:50		JC\MD	Ok,M

M : Manual Integration



SHIPPING DOCUMENTS

CLIENT INFORMATION

REPORT TO BE SENT TO:

COMPANY: G environmental
ADDRESS: 8 CARRIAGE
CITY: Shrewsbury STATE: NT ZIP: 07876
ATTENTION:
PHONE: FAX:

CLIENT PROJECT INFORMATION

PROJECT NAME: Nelson
PROJECT NO.: LOCATION:
PROJECT MANAGER:
e-mail:
PHONE: FAX:

CLIENT BILLING INFORMATION

BILL TO: G environmental
ADDRESS: 8 CARRIAGE
CITY: Shrewsbury STATE: NT ZIP:
ATTENTION: PHONE:

ANALYSIS

DATA TURNAROUND INFORMATION

FAX (RUSH) 5 days DAYS*
HARDCOPY (DATA PACKAGE): STANDARD DAYS*
EDD: DAYS*
*TO BE APPROVED BY CHEMTECH
STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS

DATA DELIVERABLE INFORMATION

☐ Level 1 (Results Only) ☐ Level 4 (QC + Full Raw Data)
☐ Level 2 (Results + QC) ☒ NJ Reduced ☐ US EPA CLP
☐ Level 3 (Results + QC) ☐ NYS ASP A ☐ NYS ASP B
+ Raw Data) Other
EDD FORMAT MS178

PRESERVATIVES

COMMENTS

ALLIANCE SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE		SAMPLE COLLECTION		# OF BOTTLES										Specify Preservatives A-HCl B-HNO3 C-H2SO4 D-NaOH E-ICE F-OTHER
			COMP	GRAB	DATE	TIME		1	2	3	4	5	6	7	8	9	
1.	GD3W GDW3	GW			X 7/21/25	1400	4		X		X						
2.																	
3.																	
4.																	
5.																	
6.																	
7.																	
8.																	
9.																	
10.																	

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

RELINQUISHED BY SAMPLER: 1. <u>HT</u>	DATE/TIME: <u>1430</u> <u>7-21-25</u>	RECEIVED BY: <u>ET</u>	Conditions of bottles or coolers at receipt: ☒ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP <u>4.0</u> °C
RELINQUISHED BY SAMPLER: 2.	DATE/TIME:	RECEIVED BY:	Comments: <u>5 day-TAT</u> <u>vac in chow</u> <u>1/2, 4 Keimethy/ber</u>
RELINQUISHED BY SAMPLER: 3.	DATE/TIME:	RECEIVED BY:	Page ____ of CLIENT: ☐ Hand Delivered ☐ Other Shipment Complete ☐ YES ☐ NO

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



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

LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q2664	GENV01	Order Date : 7/21/2025 2:32:00 PM	Project Mgr :
Client Name : G Environmental		Project Name : Nelson	Report Type : NJ Reduced
Client Contact : Gary Landis		Receive DateTime : 7/21/2025 2:30:00 PM	EDD Type : Excel NJ
Invoice Name : G Environmental		Purchase Order :	Hard Copy Date :
Invoice Contact : Gary Landis			Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
Q2664-01	GDW3	Water	07/21/2025	14:00		VOCMS Group1	8260-Low		5 Bus. Days

Relinquished By : CL
Date / Time : 7/21/25

15:20

Received By : Sami
Date / Time : 07/21/25 15:20 Rg #4

Storage Area : VOA Refridgerator Room