

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

LAB CHRONICLE

OrderID:	Q1038	OrderDate:	1/9/2025 9:48:00 AM
Client:	Garden State Laboratories, Inc.	Project:	Waste Water 2025
Contact:	Sharon Ercoliani	Location:	VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1038-01	250108071-01-VOA	Water			01/08/25			01/09/25
			VOCMS Group1	624.1				
			VOCMS Group2	8260-Low				
Q1038-02	250108055-07-TRIP-BLANK	Water			01/08/25			01/09/25
			VOCMS Group1	624.1				
			VOCMS Group2	8260-Low				

Hit Summary Sheet
SW-846

SDG No.: Q1038

Client: Garden State Laboratories, Inc.

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID:	250108071-01-VOA							
Q1038-01	250108071-01-VOA	Water	Methyl tert-butyl Ether	0.36	J	0.16	1.00	ug/L
Q1038-01	250108071-01-VOA	Water	Methylene Chloride	0.44	J	0.32	1.00	ug/L
Q1038-01	250108071-01-VOA	Water	Benzene	0.44	J	0.16	1.00	ug/L
Q1038-01	250108071-01-VOA	Water	Chlorobenzene	4.00		0.13	1.00	ug/L
Q1038-01	250108071-01-VOA	Water	o-Xylene	0.34	J	0.14	1.00	ug/L
Q1038-01	250108071-01-VOA	Water	1,4-Dichlorobenzene	4.80		0.27	1.00	ug/L
Q1038-01	250108071-01-VOA	Water	1,2-Dichlorobenzene	0.36	J	0.19	1.00	ug/L
			Total Voc :			10.7		
Q1038-01	250108071-01-VOA	Water	Tetrahydrofuran	* 110	J	1.20	5.00	ug/L
Q1038-01	250108071-01-VOA	Water	Tert butyl alcohol	* 180	J	5.60	25.0	ug/L
Q1038-01	250108071-01-VOA	Water	Diethyl Ether	* 8.00	J	0.20	1.00	ug/L
Q1038-01	250108071-01-VOA	Water	Naphthalene	* 0.96	J	0.59	1.00	ug/L
Q1038-01	250108071-01-VOA	Water	1,4-Dioxane	* 140	J	6.50	100	ug/L
			Total Tics :			439		
			Total Concentration:			450		
Client ID:	250108055-07-TRIP-BLANK							
Q1038-02	250108055-07-TRII	Water	Naphthalene	* 2.80	J	0.59	1.00	ug/L
			Total Tics :			2.80		
			Total Concentration:			2.80		



QC SUMMARY

Surrogate Summary

SDG No.: Q1038

Client: Garden State Laboratories, Inc.

Analytical Method: SW8260-Low

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits	
						Low	High
Q1038-01	250108071-01-VOA	1,2-Dichloroethane-d4	50	53.4	107	74	125
		Dibromofluoromethane	50	53.3	107	75	124
		Toluene-d8	50	52.1	104	86	113
		4-Bromofluorobenzene	50	49.1	98	77	121
Q1038-02	250108055-07-TRIP-BLANK	1,2-Dichloroethane-d4	50	55.7	111	74	125
		Dibromofluoromethane	50	52.7	105	75	124
		Toluene-d8	50	52.0	104	86	113
		4-Bromofluorobenzene	50	47.4	95	77	121
VN0109WBL01	VN0109WBL01	1,2-Dichloroethane-d4	50	57.9	116	74	125
		Dibromofluoromethane	50	54.0	108	75	124
		Toluene-d8	50	52.2	104	86	113
		4-Bromofluorobenzene	50	47.3	95	77	121
VN0109WBS01	VN0109WBS01	1,2-Dichloroethane-d4	50	51.2	102	74	125
		Dibromofluoromethane	50	52.7	105	75	124
		Toluene-d8	50	50.7	101	86	113
		4-Bromofluorobenzene	50	50.4	101	77	121
VN0109WBSD0	VN0109WBSD01	1,2-Dichloroethane-d4	50	51.0	102	74	125
		Dibromofluoromethane	50	50.9	102	75	124
		Toluene-d8	50	49.8	100	86	113
		4-Bromofluorobenzene	50	50.2	100	77	121

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1038

Client: Garden State Laboratories, Inc.

Analytical Method: SW8260-Low

Datafile : VN085404.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VN0109WBS01	Dichlorodifluoromethane	20	20.1	ug/L	101			69	116	
	Chloromethane	20	18.3	ug/L	92			65	116	
	Vinyl chloride	20	17.4	ug/L	87			65	117	
	Bromomethane	20	16.4	ug/L	82			58	125	
	Chloroethane	20	18.3	ug/L	92			56	128	
	Trichlorofluoromethane	20	19.3	ug/L	97			73	115	
	1,1,2-Trichlorotrifluoroethane	20	19.5	ug/L	98			80	112	
	1,1-Dichloroethene	20	19.5	ug/L	98			74	110	
	Acetone	100	97.3	ug/L	97			60	125	
	Carbon disulfide	20	19.0	ug/L	95			64	112	
	Methyl tert-butyl Ether	20	19.0	ug/L	95			78	114	
	Methyl Acetate	20	20.0	ug/L	100			67	125	
	Methylene Chloride	20	20.1	ug/L	101			72	114	
	trans-1,2-Dichloroethene	20	19.2	ug/L	96			75	108	
	1,1-Dichloroethane	20	19.9	ug/L	100			78	112	
	Cyclohexane	20	18.8	ug/L	94			75	110	
	2-Butanone	100	94.2	ug/L	94			65	122	
	Carbon Tetrachloride	20	20.6	ug/L	103			77	113	
	cis-1,2-Dichloroethene	20	19.4	ug/L	97			77	110	
	Bromochloromethane	20	20.5	ug/L	103			70	124	
	Chloroform	20	19.3	ug/L	97			79	113	
	1,1,1-Trichloroethane	20	19.1	ug/L	96			80	108	
	Methylcyclohexane	20	20.1	ug/L	101			72	115	
	Benzene	20	20.8	ug/L	104			82	109	
	1,2-Dichloroethane	20	20.3	ug/L	102			80	115	
	Trichloroethene	20	19.4	ug/L	97			77	113	
	1,2-Dichloropropane	20	20.2	ug/L	101			83	111	
	Bromodichloromethane	20	20.4	ug/L	102			83	110	
	4-Methyl-2-Pentanone	100	100	ug/L	100			74	118	
	Toluene	20	20.8	ug/L	104			82	110	
	t-1,3-Dichloropropene	20	19.6	ug/L	98			79	110	
	cis-1,3-Dichloropropene	20	20.1	ug/L	101			82	110	
	1,1,2-Trichloroethane	20	19.7	ug/L	99			83	112	
	2-Hexanone	100	100	ug/L	100			73	117	
	Dibromochloromethane	20	20.9	ug/L	104			82	110	
	1,2-Dibromoethane	20	20.2	ug/L	101			81	110	
	Tetrachloroethene	20	20.7	ug/L	104			67	123	
	Chlorobenzene	20	19.8	ug/L	99			82	109	
	Ethyl Benzene	20	19.9	ug/L	100			83	109	
	m/p-Xylenes	40	43.0	ug/L	108			82	110	
	o-Xylene	20	20.4	ug/L	102			83	109	
	Styrene	20	20.5	ug/L	103			80	111	
	Bromoform	20	20.8	ug/L	104			79	109	
	Isopropylbenzene	20	20.7	ug/L	104			83	112	
	1,1,2,2-Tetrachloroethane	20	20.5	ug/L	103			76	118	
	1,3-Dichlorobenzene	20	20.0	ug/L	100			82	108	
	1,4-Dichlorobenzene	20	19.7	ug/L	99			82	107	
	1,2-Dichlorobenzene	20	20.5	ug/L	103			82	109	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1038

Client: Garden State Laboratories, Inc.

Analytical Method: SW8260-Low

Datafile : VN085404.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits	RPD
									High	
VN0109WBS01	1,2-Dibromo-3-Chloropropane	20	19.6	ug/L	98			68	112	
	1,2,4-Trichlorobenzene	20	18.5	ug/L	93			75	113	
	1,2,3-Trichlorobenzene	20	17.9	ug/L	90			76	114	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1038

Client: Garden State Laboratories, Inc.

Analytical Method: SW8260-Low

Datafile : VN085405.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VN0109WBSD01	Dichlorodifluoromethane	20	20.3	ug/L	102	1		69	116	20
	Chloromethane	20	18.2	ug/L	91	1		65	116	20
	Vinyl chloride	20	17.5	ug/L	88	1		65	117	20
	Bromomethane	20	16.7	ug/L	84	2		58	125	20
	Chloroethane	20	17.3	ug/L	86	7		56	128	20
	Trichlorofluoromethane	20	19.2	ug/L	96	1		73	115	20
	1,1,2-Trichlorotrifluoroethane	20	19.6	ug/L	98	0		80	112	20
	1,1-Dichloroethene	20	19.6	ug/L	98	0		74	110	20
	Acetone	100	100	ug/L	100	3		60	125	20
	Carbon disulfide	20	19.4	ug/L	97	2		64	112	20
	Methyl tert-butyl Ether	20	20.1	ug/L	101	6		78	114	20
	Methyl Acetate	20	21.1	ug/L	106	6		67	125	20
	Methylene Chloride	20	20.6	ug/L	103	2		72	114	20
	trans-1,2-Dichloroethene	20	19.4	ug/L	97	1		75	108	20
	1,1-Dichloroethane	20	20.3	ug/L	102	2		78	112	20
	Cyclohexane	20	18.8	ug/L	94	0		75	110	20
	2-Butanone	100	100	ug/L	100	6		65	122	20
	Carbon Tetrachloride	20	20.6	ug/L	103	0		77	113	20
	cis-1,2-Dichloroethene	20	19.7	ug/L	99	2		77	110	20
	Bromochloromethane	20	20.8	ug/L	104	1		70	124	20
	Chloroform	20	19.9	ug/L	100	3		79	113	20
	1,1,1-Trichloroethane	20	19.2	ug/L	96	0		80	108	20
	Methylcyclohexane	20	19.4	ug/L	97	4		72	115	20
	Benzene	20	21.2	ug/L	106	2		82	109	20
	1,2-Dichloroethane	20	21.3	ug/L	106	4		80	115	20
	Trichloroethene	20	19.3	ug/L	97	0		77	113	20
	1,2-Dichloropropane	20	21.1	ug/L	106	5		83	111	20
	Bromodichloromethane	20	20.8	ug/L	104	2		83	110	20
	4-Methyl-2-Pentanone	100	110	ug/L	110	10		74	118	20
	Toluene	20	21.2	ug/L	106	2		82	110	20
	t-1,3-Dichloropropene	20	20.7	ug/L	104	6		79	110	20
	cis-1,3-Dichloropropene	20	21.1	ug/L	106	5		82	110	20
	1,1,2-Trichloroethane	20	21.3	ug/L	106	7		83	112	20
	2-Hexanone	100	110	ug/L	110	10		73	117	20
	Dibromochloromethane	20	21.7	ug/L	109	5		82	110	20
	1,2-Dibromoethane	20	21.3	ug/L	106	5		81	110	20
	Tetrachloroethene	20	20.6	ug/L	103	1		67	123	20
	Chlorobenzene	20	19.9	ug/L	100	1		82	109	20
	Ethyl Benzene	20	20.0	ug/L	100	0		83	109	20
	m/p-Xylenes	40	41.8	ug/L	104	4		82	110	20
	o-Xylene	20	20.0	ug/L	100	2		83	109	20
	Styrene	20	20.8	ug/L	104	1		80	111	20
	Bromoform	20	21.3	ug/L	106	2		79	109	20
	Isopropylbenzene	20	19.7	ug/L	99	5		83	112	20
	1,1,2,2-Tetrachloroethane	20	20.3	ug/L	102	1		76	118	20
	1,3-Dichlorobenzene	20	19.7	ug/L	99	1		82	108	20
	1,4-Dichlorobenzene	20	19.2	ug/L	96	3		82	107	20
	1,2-Dichlorobenzene	20	19.8	ug/L	99	4		82	109	20

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1038

Client: Garden State Laboratories, Inc.

Analytical Method: SW8260-Low

Datafile : VN085405.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VN0109WBSD01	1,2-Dibromo-3-Chloropropane	20	19.2	ug/L	96	2		68	112	20
	1,2,4-Trichlorobenzene	20	18.7	ug/L	94	1		75	113	20
	1,2,3-Trichlorobenzene	20	18.6	ug/L	93	3		76	114	20

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VN0109WBL01

Lab Name: CHEMTECH

Contract: GARD04

Lab Code: CHEM Case No.: Q1038

SAS No.: Q1038 SDG NO.: Q1038

Lab File ID: VN085403.D

Lab Sample ID: VN0109WBL01

Date Analyzed: 01/09/2025

Time Analyzed: 12:43

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
VN0109WBS01	VN0109WBS01	VN085404.D	01/09/2025
VN0109WBSD01	VN0109WBSD01	VN085405.D	01/09/2025
250108055-07-TRIP-BLANK	Q1038-02	VN085408.D	01/09/2025
250108071-01-VOA	Q1038-01	VN085409.D	01/09/2025

COMMENTS: _____



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

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: GARD04
Lab Code: CHEM Case No.: Q1038 SAS No.: Q1038 SDG NO.: Q1038
Lab File ID: VN085320.D BFB Injection Date: 12/27/2024
Instrument ID: MSVOA_N BFB Injection Time: 09:52
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	22.4
75	30.0 - 60.0% of mass 95	58
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	7.3
173	Less than 2.0% of mass 174	0.6 (0.8) 1
174	50.0 - 100.0% of mass 95	73.9
175	5.0 - 9.0% of mass 174	5.8 (7.9) 1
176	95.0 - 101.0% of mass 174	73.2 (99) 1
177	5.0 - 9.0% of mass 176	4.8 (6.5) 2

1-Value is % mass 174

2-Value is % mass 176

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDICC100	VSTDICC100	VN085321.D	12/27/2024	10:26
VSTDICCC050	VSTDICCC050	VN085322.D	12/27/2024	10:50
VSTDICC020	VSTDICC020	VN085323.D	12/27/2024	11:13
VSTDICC010	VSTDICC010	VN085324.D	12/27/2024	11:37
VSTDICC005	VSTDICC005	VN085325.D	12/27/2024	12:01
VSTDICC001	VSTDICC001	VN085326.D	12/27/2024	12:48



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

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: GARD04
Lab Code: CHEM Case No.: Q1038 SAS No.: Q1038 SDG NO.: Q1038
Lab File ID: VN085400.D BFB Injection Date: 01/09/2025
Instrument ID: MSVOA_N BFB Injection Time: 09:43
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	22
75	30.0 - 60.0% of mass 95	54.6
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.8
173	Less than 2.0% of mass 174	1.2 (1.7) 1
174	50.0 - 100.0% of mass 95	71.4
175	5.0 - 9.0% of mass 174	6.4 (8.9) 1
176	95.0 - 101.0% of mass 174	67.9 (95) 1
177	5.0 - 9.0% of mass 176	5.7 (8.3) 2

1-Value is % mass 174

2-Value is % mass 176

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC050	VSTDCCC050	VN085401.D	01/09/2025	11:45
VN0109WBL01	VN0109WBL01	VN085403.D	01/09/2025	12:43
VN0109WBS01	VN0109WBS01	VN085404.D	01/09/2025	13:07
VN0109WBSD01	VN0109WBSD01	VN085405.D	01/09/2025	13:40
250108055-07-TRIP-BLANK	Q1038-02	VN085408.D	01/09/2025	14:51
250108071-01-VOA	Q1038-01	VN085409.D	01/09/2025	15:15

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: GARD04
 Lab Code: CHEM Case No.: Q1038 SAS No.: Q1038 SDG NO.: Q1038
 Lab File ID: VN085401.D Date Analyzed: 01/09/2025
 Instrument ID: MSVOA_N Time Analyzed: 11:45
 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	178998	8.22	308812	9.09	266196	11.86
UPPER LIMIT	357996	8.718	617624	9.594	532392	12.359
LOWER LIMIT	89499	7.718	154406	8.594	133098	11.359
EPA SAMPLE NO.						
250108071-01-VOA	180603	8.22	323361	9.10	281455	11.86
250108055-07-TRIP-BLANK	171912	8.22	317940	9.10	276650	11.87
VN0109WBL01	182405	8.22	342003	9.09	292931	11.86
VN0109WBS01	177833	8.22	308224	9.09	264243	11.86
VN0109WBSD01	159344	8.22	277365	9.10	239248	11.86

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

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

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

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: GARD04
 Lab Code: CHEM Case No.: Q1038 SAS No.: Q1038 SDG NO.: Q1038
 Lab File ID: VN085401.D Date Analyzed: 01/09/2025
 Instrument ID: MSVOA_N Time Analyzed: 11:45
 GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

	IS4 AREA #	RT #				
12 HOUR STD	121857	13.788				
UPPER LIMIT	243714	14.288				
LOWER LIMIT	60928.5	13.288				
EPA SAMPLE NO.						
250108071-01-VOA	115636	13.79				
250108055-07-TRIP-BLANK	109684	13.79				
VN0109WBL01	119086	13.79				
VN0109WBS01	117530	13.79				
VN0109WBSD01	109836	13.79				

IS4 = 1,4-Dichlorobenzene-d4

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

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



SAMPLE DATA

Report of Analysis

Client:	Garden State Laboratories, Inc.	Date Collected:	01/08/25
Project:	Waste Water 2025	Date Received:	01/09/25
Client Sample ID:	250108071-01-VOA	SDG No.:	Q1038
Lab Sample ID:	Q1038-01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group2
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085409.D	1		01/09/25 15:15	VN010925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	0.21	U	0.21	1.00	ug/L
74-87-3	Chloromethane	0.35	U	0.35	1.00	ug/L
75-01-4	Vinyl Chloride	0.34	U	0.34	1.00	ug/L
74-83-9	Bromomethane	1.40	U	1.40	5.00	ug/L
75-00-3	Chloroethane	0.56	U	0.56	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.34	U	0.34	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	0.26	U	0.26	1.00	ug/L
67-64-1	Acetone	1.40	U	1.40	5.00	ug/L
75-15-0	Carbon Disulfide	0.32	U	0.32	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.36	J	0.16	1.00	ug/L
79-20-9	Methyl Acetate	0.60	U	0.60	1.00	ug/L
75-09-2	Methylene Chloride	0.44	J	0.32	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.25	U	0.25	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.23	U	0.23	1.00	ug/L
110-82-7	Cyclohexane	1.60	U	1.60	5.00	ug/L
78-93-3	2-Butanone	1.30	U	1.30	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	0.25	U	0.25	1.00	ug/L
74-97-5	Bromochloromethane	0.18	U	0.18	1.00	ug/L
67-66-3	Chloroform	0.26	U	0.26	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.19	U	0.19	1.00	ug/L
108-87-2	Methylcyclohexane	0.19	U	0.19	1.00	ug/L
71-43-2	Benzene	0.44	J	0.16	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.24	U	0.24	1.00	ug/L
79-01-6	Trichloroethene	0.32	U	0.32	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.19	U	0.19	1.00	ug/L
75-27-4	Bromodichloromethane	0.24	U	0.24	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	0.75	U	0.75	5.00	ug/L
108-88-3	Toluene	0.18	U	0.18	1.00	ug/L

Report of Analysis

Client:	Garden State Laboratories, Inc.			Date Collected:	01/08/25	
Project:	Waste Water 2025			Date Received:	01/09/25	
Client Sample ID:	250108071-01-VOA			SDG No.:	Q1038	
Lab Sample ID:	Q1038-01			Matrix:	Water	
Analytical Method:	SW8260			% Solid:	0	
Sample Wt/Vol:	5	Units:	mL	Final Vol:	5000	uL
Soil Aliquot Vol:			uL	Test:	VOCMS Group2	
GC Column:	RXI-624	ID :	0.25	Level :	LOW	
Prep Method :						

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085409.D	1		01/09/25 15:15	VN010925

[illegible]

Report of Analysis

Client:	Garden State Laboratories, Inc.	Date Collected:	01/08/25
Project:	Waste Water 2025	Date Received:	01/09/25
Client Sample ID:	250108071-01-VOA	SDG No.:	Q1038
Lab Sample ID:	Q1038-01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group2
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085409.D	1		01/09/25 15:15	VN010925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
60-29-7	Diethyl Ether	8.00	J		3.95	ug/L
75-65-0	Tert butyl alcohol	180	J		5.51	ug/L
109-99-9	Tetrahydrofuran	110	J		7.84	ug/L
123-91-1	1,4-Dioxane	140	J		9.69	ug/L
91-20-3	Naphthalene	0.96	J		15.6	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\VN010925\
 Data File : VN085409.D
 Acq On : 09 Jan 2025 15:15
 Operator : JC\MD
 Sample : Q1038-01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 250108071-01-VOA

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 01/10/2025
 Supervised By :Semsettin Yesilyurt 01/10/2025

Quant Time: Jan 10 00:21:48 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N122724W.M
 Quant Title : SW846 8260
 QLast Update : Sat Dec 28 01:36:16 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.224	168	180603	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	323361	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.859	117	281455	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	115636	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.571	65	137659	53.441	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 106.880%			
35) Dibromofluoromethane	8.159	113	107472	53.275	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 106.560%			
50) Toluene-d8	10.565	98	385402	52.063	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 104.120%			
62) 4-Bromofluorobenzene	12.847	95	120764	49.122	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 98.240%			
Target Compounds						
					Qvalue	
8) Diethyl Ether	3.953	74	10141	8.025	ug/l	98
11) Tert butyl alcohol	5.512	59	57744	179.019	ug/l	100
19) Methyl tert-butyl Ether	5.795	73	2357	0.361	ug/l #	80
20) Methylene Chloride	5.283	84	1011m	0.444	ug/l	
29) Tetrahydrofuran	7.836	42	90386	106.781	ug/l	96
40) Benzene	8.600	78	3893	0.436	ug/l	95
49) 1,4-Dioxane	9.694	88	4283	135.334	ug/l #	94
65) Chlorobenzene	11.888	112	24292	3.994	ug/l	98
68) m/p-Xylenes	12.071	106	1019	0.275	ug/l #	70
69) o-Xylene	12.394	106	1215	0.339	ug/l	83
88) 1,4-Dichlorobenzene	13.806	146	18257	4.759	ug/l	95
91) 1,2-Dichlorobenzene	14.106	146	1264	0.355	ug/l	77
95) Naphthalene	15.635	128	5788	0.961	ug/l #	91

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

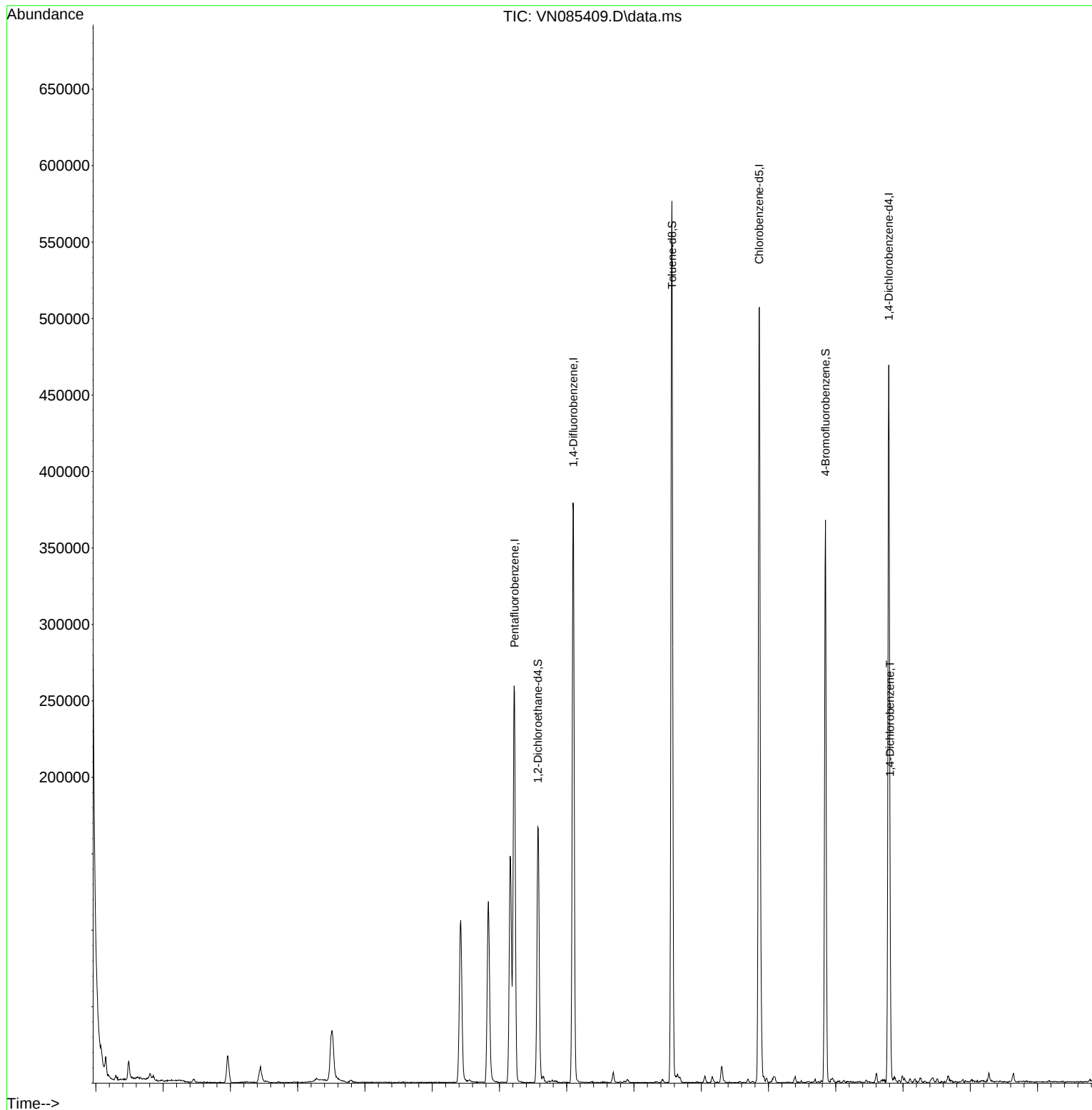
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Data File : VN085409.D
Acq On : 09 Jan 2025 15:15
Operator : JC\MD
Sample : Q1038-01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 10 Sample Multiplier: 1

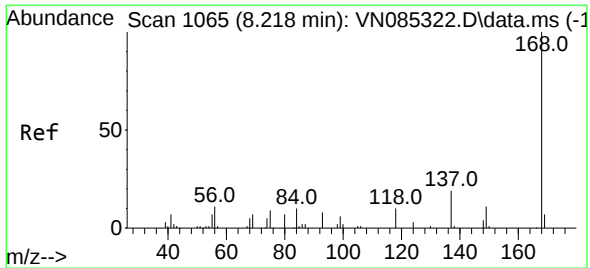
Instrument :
MSVOA_N
ClientSampleId :
250108071-01-VOA

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 01/10/2025
Supervised By :Semsettin Yesilyurt 01/10/2025

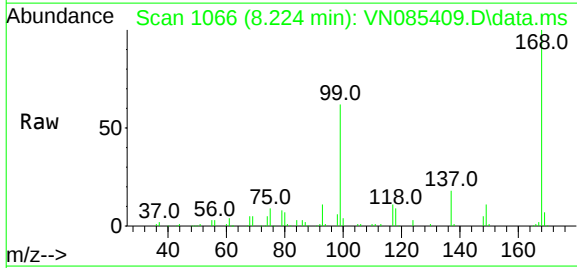
Quant Time: Jan 10 00:21:48 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N122724W.M
Quant Title : SW846 8260
QLast Update : Sat Dec 28 01:36:16 2024
Response via : Initial Calibration





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. 0.006 min
Lab File: VN085409.D
Acq: 09 Jan 2025 15:15

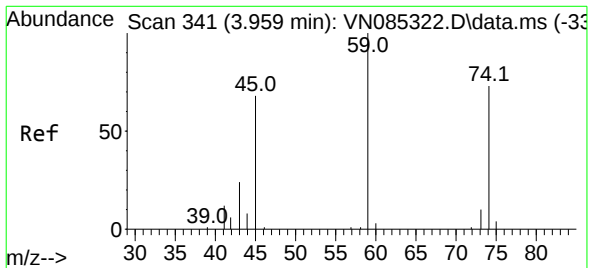
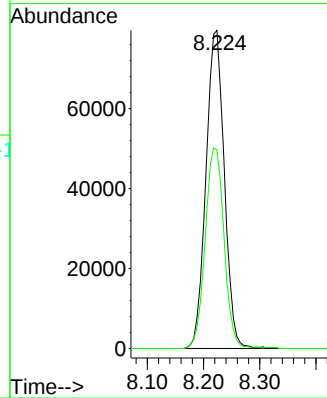
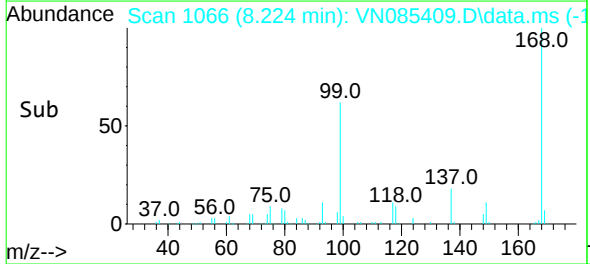
Instrument :
MSVOA_N
ClientSampleId :
250108071-01-VOA



Tgt Ion:168 Resp: 180603
Ion Ratio Lower Upper
168 100
99 62.4 51.0 76.4

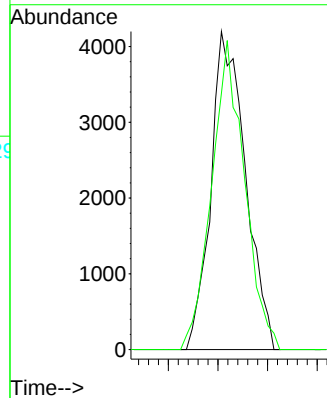
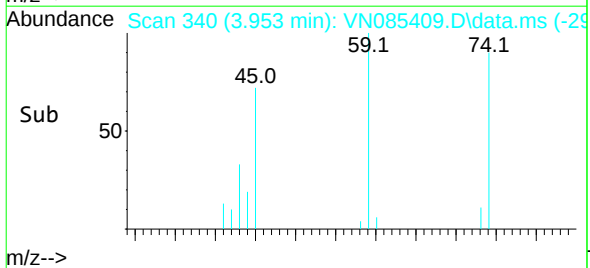
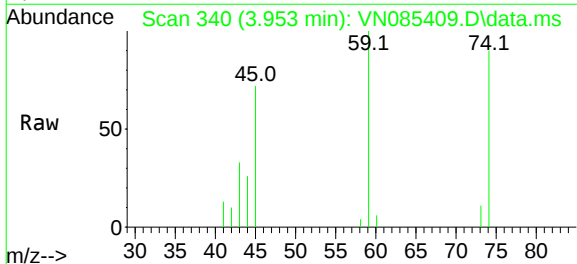
Manual Integrations
APPROVED

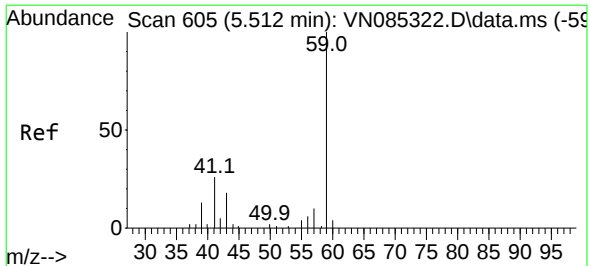
Reviewed By :Mahesh Dadoda 01/10/2025
Supervised By :Semsettin Yesilyurt 01/10/2025



#8
Diethyl Ether
Concen: 8.025 ug/l
RT: 3.953 min Scan# 340
Delta R.T. -0.006 min
Lab File: VN085409.D
Acq: 09 Jan 2025 15:15

Tgt Ion: 74 Resp: 10141
Ion Ratio Lower Upper
74 100
45 92.7 47.5 142.6





#11

Tert butyl alcohol

Concen: 179.019 ug/l

RT: 5.512 min Scan# 605

Delta R.T. 0.000 min

Lab File: VN085409.D

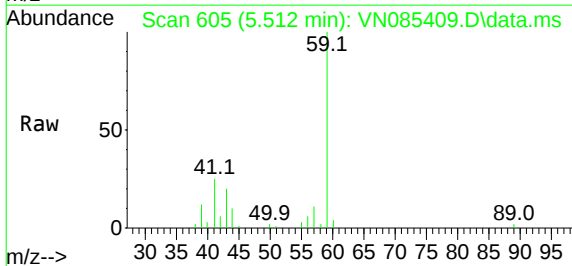
Acq: 09 Jan 2025 15:15

Instrument :

MSVOA_N

ClientSampleId :

250108071-01-VOA



Tgt Ion: 59 Resp: 57744

Ion Ratio Lower Upper

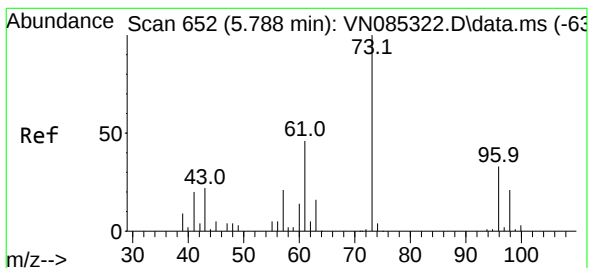
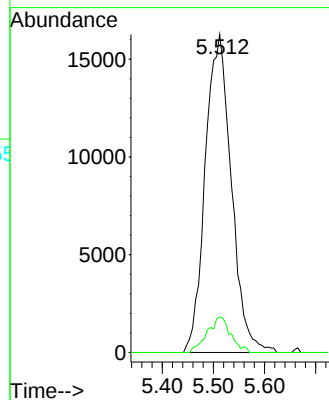
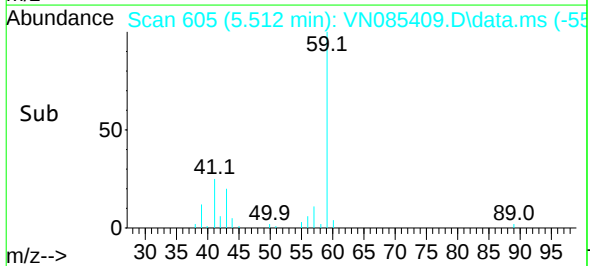
59 100

57 10.0 8.1 12.1

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 01/10/2025
Supervised By :Semsettin Yesilyurt 01/10/2025



#19

Methyl tert-butyl Ether

Concen: 0.361 ug/l

RT: 5.795 min Scan# 653

Delta R.T. 0.006 min

Lab File: VN085409.D

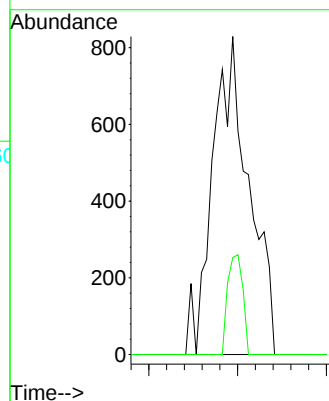
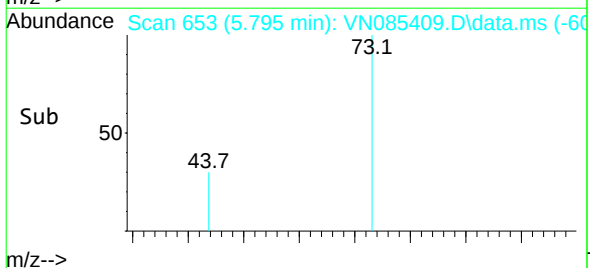
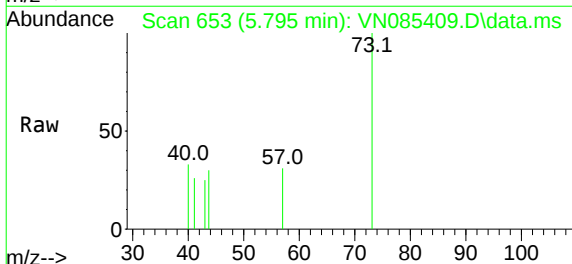
Acq: 09 Jan 2025 15:15

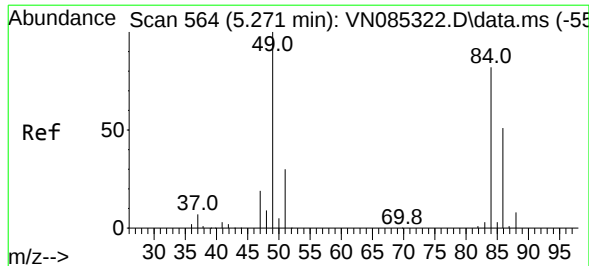
Tgt Ion: 73 Resp: 2357

Ion Ratio Lower Upper

73 100

57 30.5 17.0 25.6#





#20

Methylene Chloride

Concen: 0.444 ug/l m

RT: 5.283 min Scan# 56

Delta R.T. 0.012 min

Lab File: VN085409.D

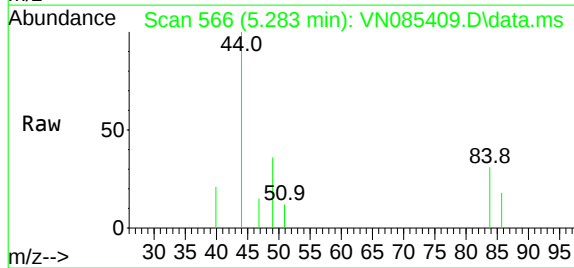
Acq: 09 Jan 2025 15:15

Instrument :

MSVOA_N

ClientSampleId :

250108071-01-VOA



Tgt Ion: 84 Resp: 1011

Ion Ratio Lower Upper

84 100

49 116.1 97.6 146.4

51 38.7 29.1 43.7

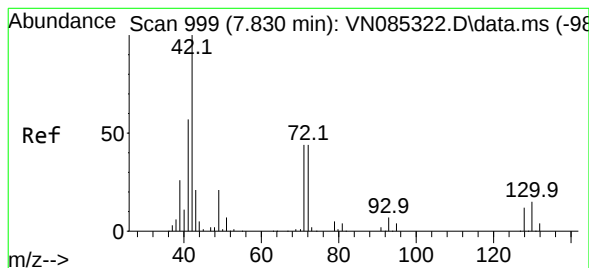
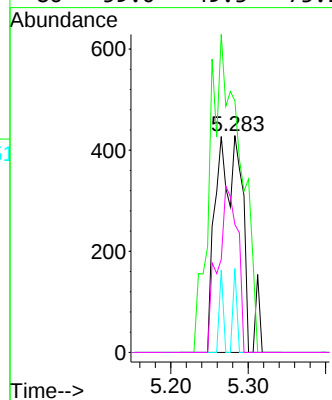
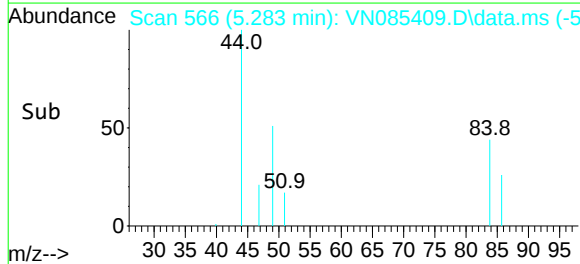
86 59.0 49.3 73.9

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 01/10/2025

Supervised By :Semsettin Yesilyurt 01/10/2025



#29

Tetrahydrofuran

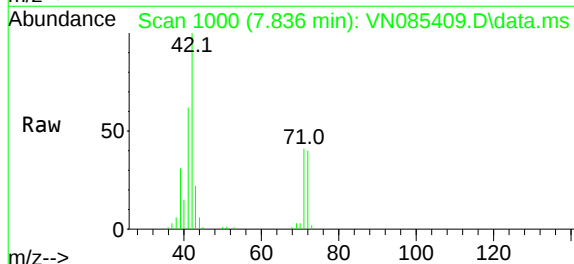
Concen: 106.781 ug/l

RT: 7.836 min Scan# 1000

Delta R.T. 0.006 min

Lab File: VN085409.D

Acq: 09 Jan 2025 15:15



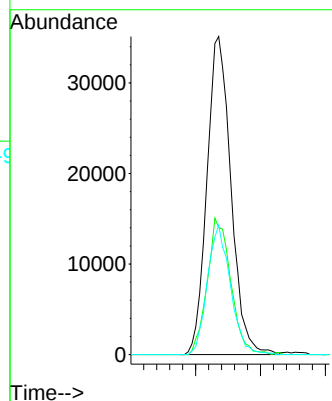
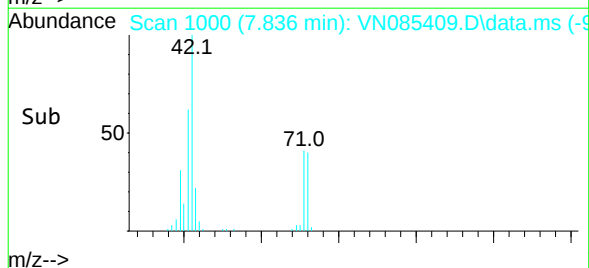
Tgt Ion: 42 Resp: 90386

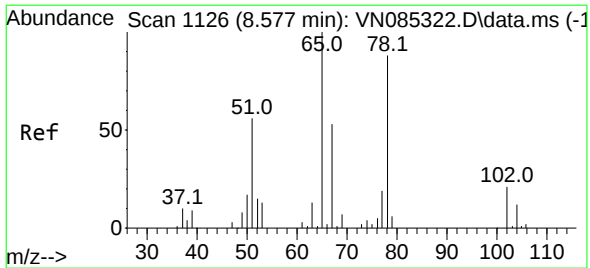
Ion Ratio Lower Upper

42 100

72 41.9 35.1 52.7

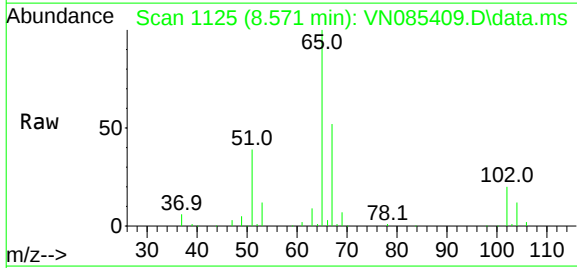
71 39.1 33.4 50.0





#33
1,2-Dichloroethane-d4
Concen: 53.441 ug/l
RT: 8.571 min Scan# 1126
Delta R.T. -0.006 min
Lab File: VN085409.D
Acq: 09 Jan 2025 15:15

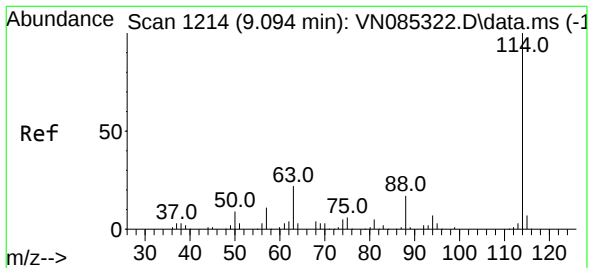
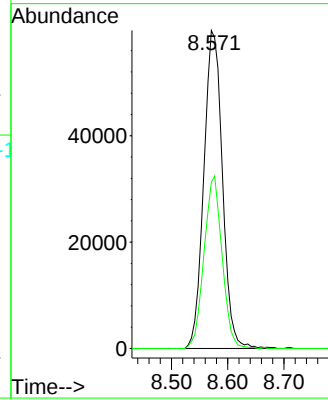
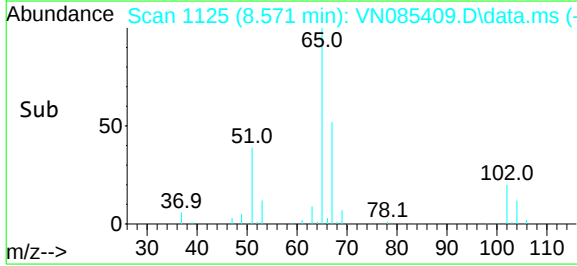
Instrument :
MSVOA_N
ClientSampleId :
250108071-01-VOA



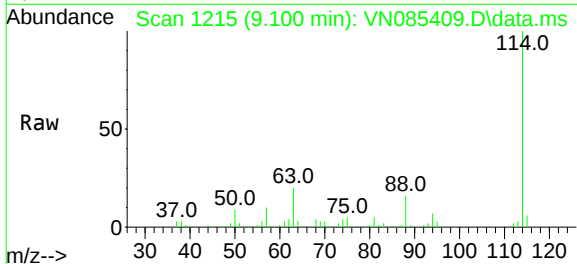
Tgt Ion: 65 Resp: 137659
Ion Ratio Lower Upper
65 100
67 52.5 0.0 104.0

Manual Integrations
APPROVED

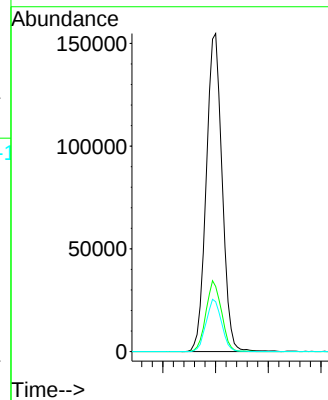
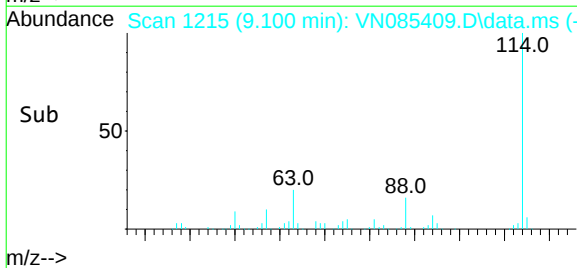
Reviewed By :Mahesh Dadoda 01/10/2025
Supervised By :Semsettin Yesilyurt 01/10/2025

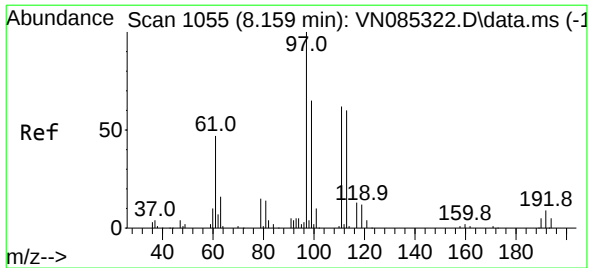


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.100 min Scan# 1215
Delta R.T. 0.006 min
Lab File: VN085409.D
Acq: 09 Jan 2025 15:15



Tgt Ion:114 Resp: 323361
Ion Ratio Lower Upper
114 100
63 20.5 0.0 43.4
88 15.7 0.0 33.6





#35

Dibromofluoromethane

Concen: 53.275 ug/l

RT: 8.159 min Scan# 1055

Delta R.T. 0.000 min

Lab File: VN085409.D

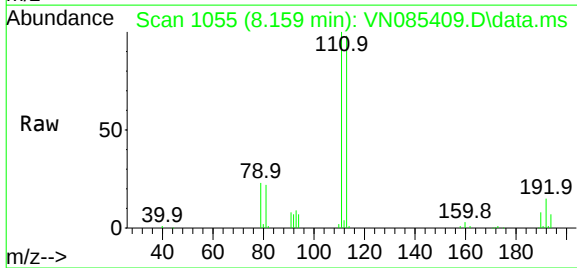
Acq: 09 Jan 2025 15:15

Instrument :

MSVOA_N

ClientSampleId :

250108071-01-VOA



Tgt Ion: 113 Resp: 107472

Ion Ratio Lower Upper

113 100

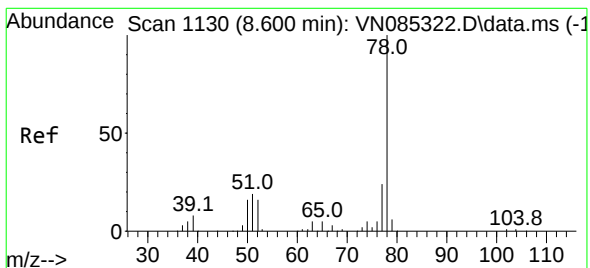
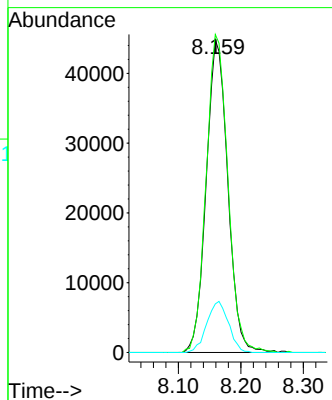
111 102.6 80.5 120.7

192 16.5 12.9 19.3

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 01/10/2025
Supervised By :Semsettin Yesilyurt 01/10/2025



#40

Benzene

Concen: 0.436 ug/l

RT: 8.600 min Scan# 1130

Delta R.T. 0.000 min

Lab File: VN085409.D

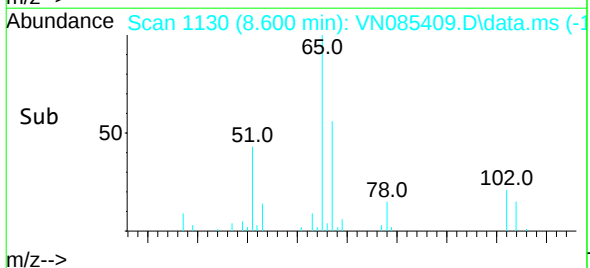
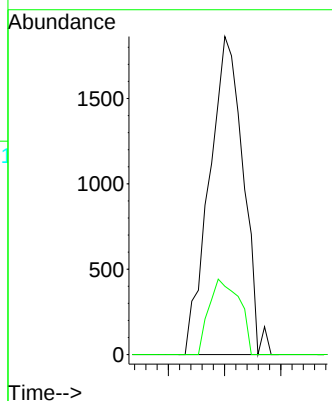
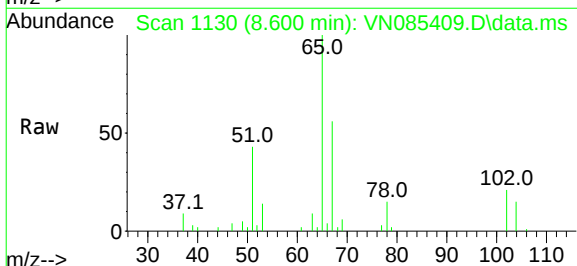
Acq: 09 Jan 2025 15:15

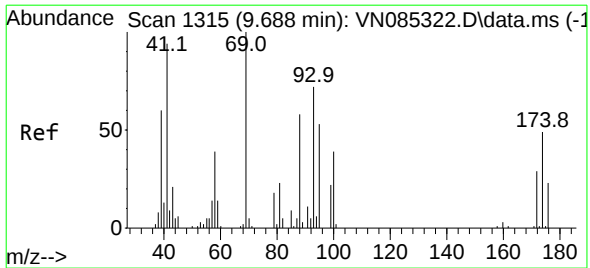
Tgt Ion: 78 Resp: 3893

Ion Ratio Lower Upper

78 100

77 21.5 19.0 28.4





#49

1,4-Dioxane

Concen: 135.334 ug/l

RT: 9.694 min Scan# 1315

Delta R.T. 0.006 min

Lab File: VN085409.D

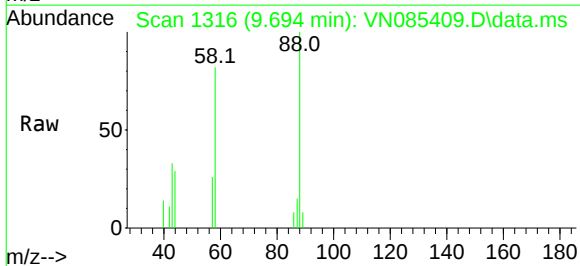
Acq: 09 Jan 2025 15:15

Instrument :

MSVOA_N

ClientSampleId :

250108071-01-VOA



Tgt Ion: 88 Resp: 4283

Ion Ratio Lower Upper

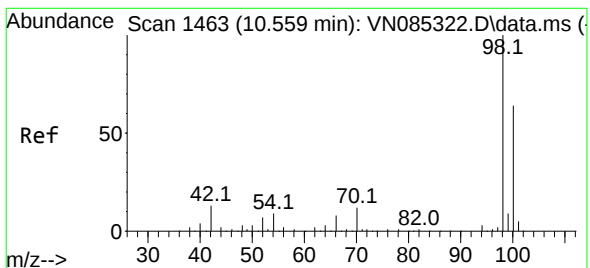
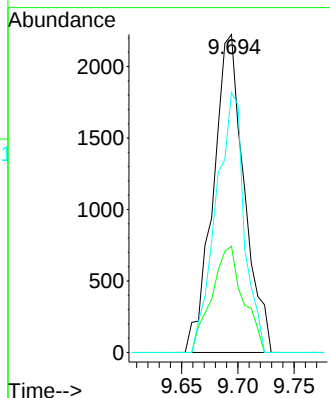
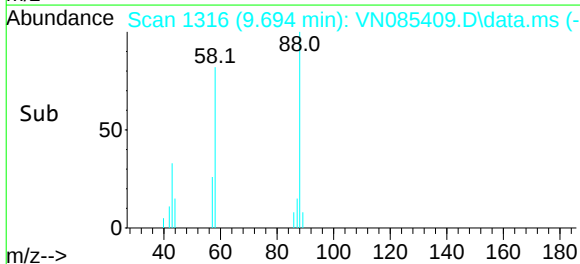
88 100

43 33.9 22.1 33.1

58 74.1 56.7 85.1

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 01/10/2025
Supervised By :Semsettin Yesilyurt 01/10/2025

#50

Toluene-d8

Concen: 52.063 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. 0.006 min

Lab File: VN085409.D

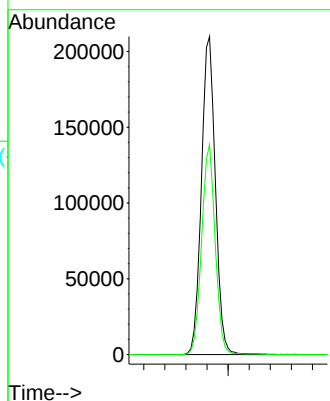
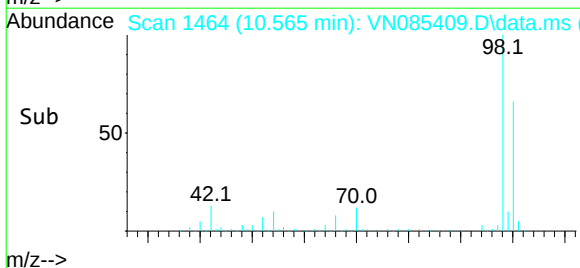
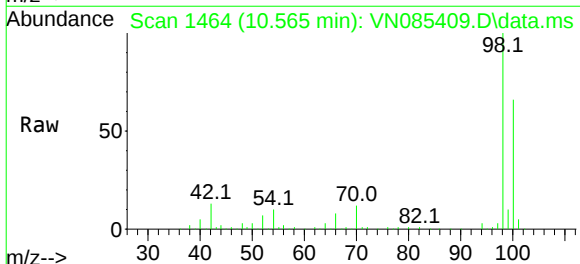
Acq: 09 Jan 2025 15:15

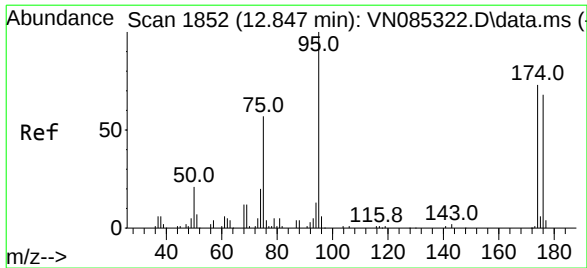
Tgt Ion: 98 Resp: 385402

Ion Ratio Lower Upper

98 100

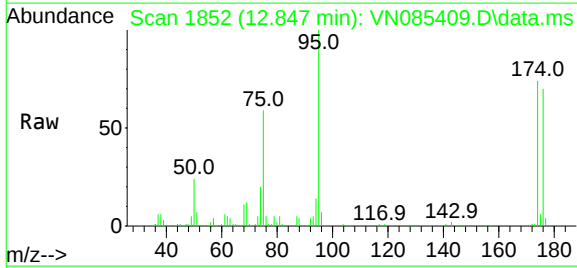
100 64.2 51.5 77.3





#62
4-Bromofluorobenzene
Concen: 49.122 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN085409.D
Acq: 09 Jan 2025 15:15

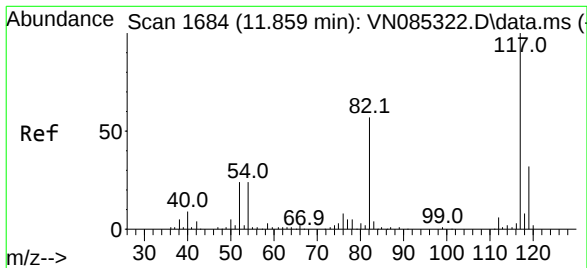
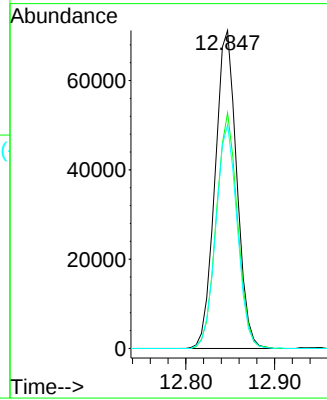
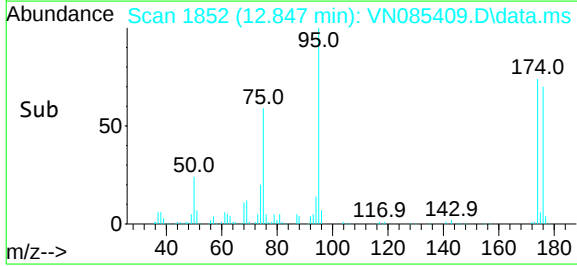
Instrument :
MSVOA_N
ClientSampleId :
250108071-01-VOA



Tgt Ion: 95 Resp: 120764
Ion Ratio Lower Upper
95 100
174 72.5 0.0 143.2
176 69.4 0.0 135.8

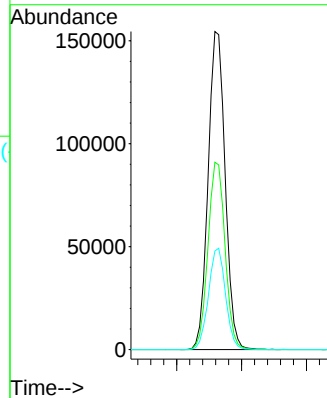
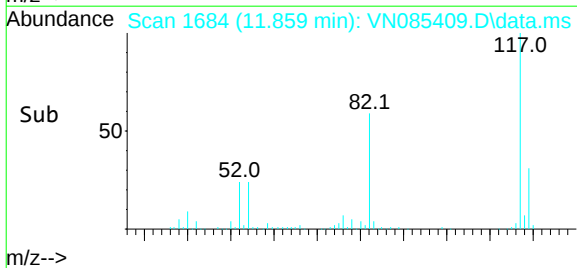
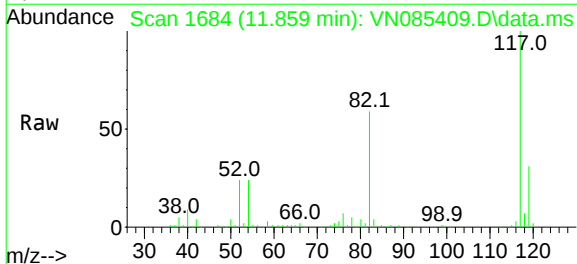
Manual Integrations
APPROVED

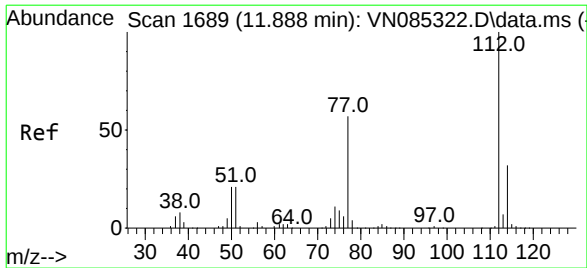
Reviewed By :Mahesh Dadoda 01/10/2025
Supervised By :Semsettin Yesilyurt 01/10/2025



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.859 min Scan# 1684
Delta R.T. 0.000 min
Lab File: VN085409.D
Acq: 09 Jan 2025 15:15

Tgt Ion:117 Resp: 281455
Ion Ratio Lower Upper
117 100
82 58.9 45.7 68.5
119 31.0 25.8 38.8





#65

Chlorobenzene

Concen: 3.994 ug/l

RT: 11.888 min Scan# 16

Delta R.T. 0.000 min

Lab File: VN085409.D

Acq: 09 Jan 2025 15:15

Instrument :

MSVOA_N

ClientSampleId :

250108071-01-VOA

Tgt Ion:112 Resp: 24292

Ion Ratio Lower Upper

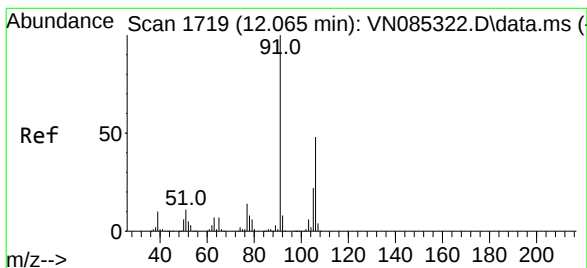
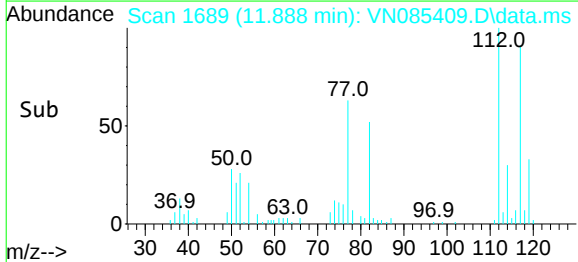
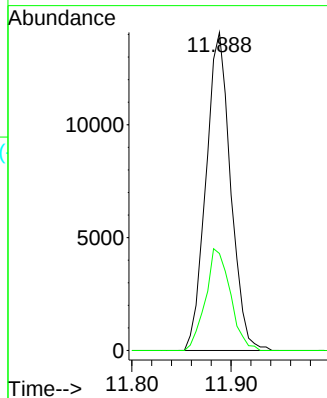
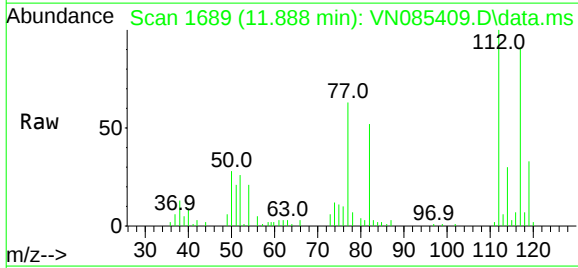
112 100

114 30.5 25.2 37.8

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 01/10/2025
Supervised By :Semsettin Yesilyurt 01/10/2025



#68

m/p-Xylenes

Concen: 0.275 ug/l

RT: 12.071 min Scan# 1720

Delta R.T. 0.006 min

Lab File: VN085409.D

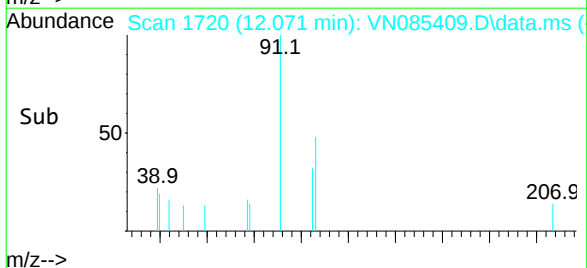
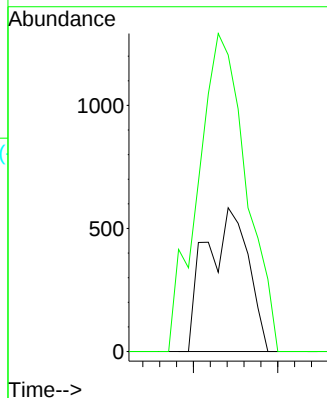
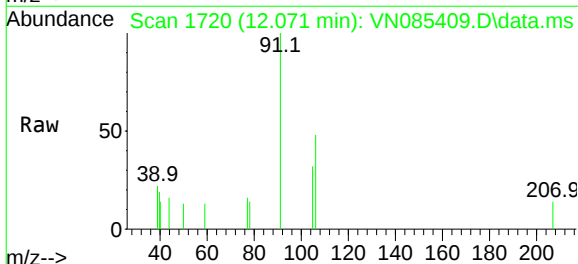
Acq: 09 Jan 2025 15:15

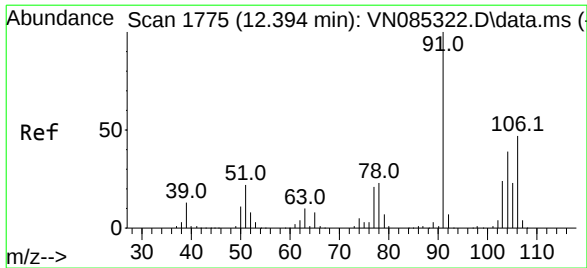
Tgt Ion:106 Resp: 1019

Ion Ratio Lower Upper

106 100

91 253.2 165.2 247.8#





#69

o-Xylene

Concen: 0.339 ug/l

RT: 12.394 min Scan# 17

Delta R.T. 0.000 min

Lab File: VN085409.D

Acq: 09 Jan 2025 15:15

Instrument :

MSVOA_N

ClientSampleId :

250108071-01-VOA

Tgt Ion:106 Resp: 1215

Ion Ratio Lower Upper

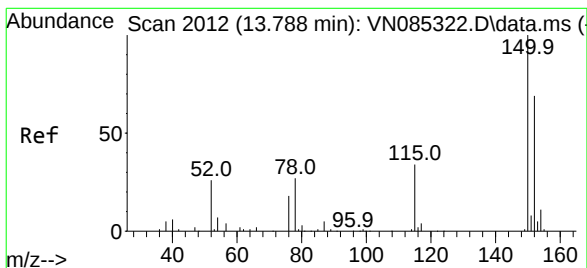
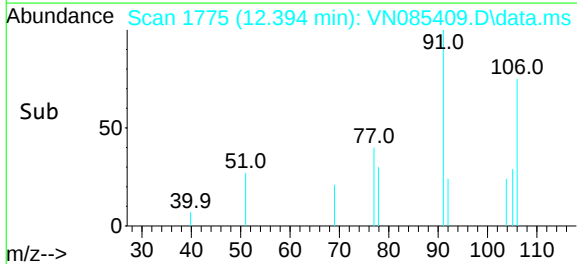
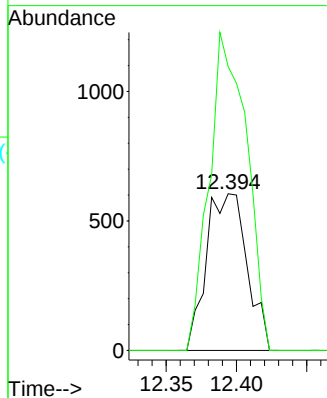
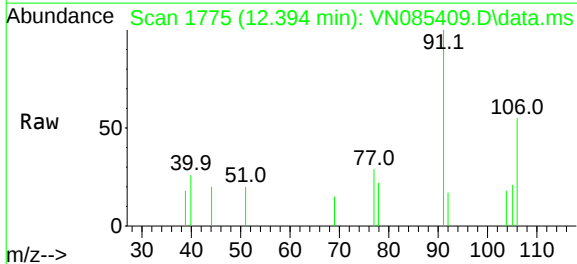
106 100

91 187.7 107.3 321.8

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 01/10/2025
Supervised By :Semsettin Yesilyurt 01/10/2025



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.788 min Scan# 2012

Delta R.T. 0.000 min

Lab File: VN085409.D

Acq: 09 Jan 2025 15:15

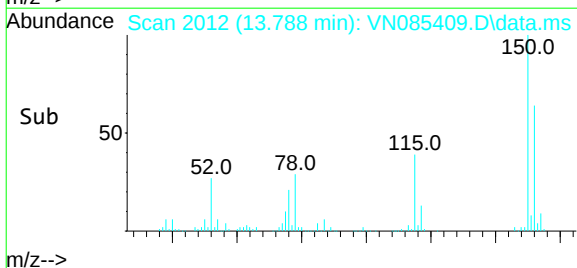
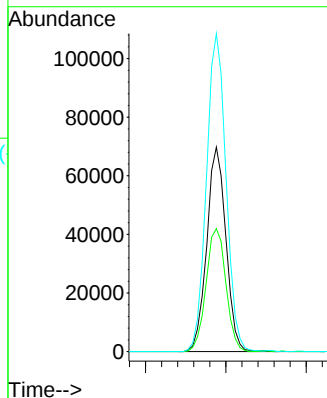
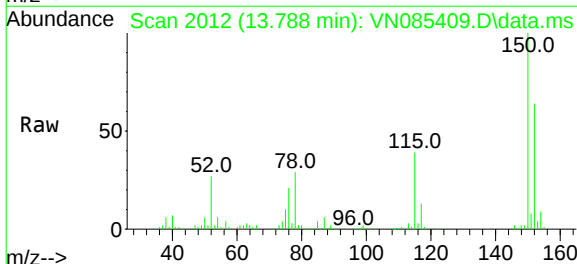
Tgt Ion:152 Resp: 115636

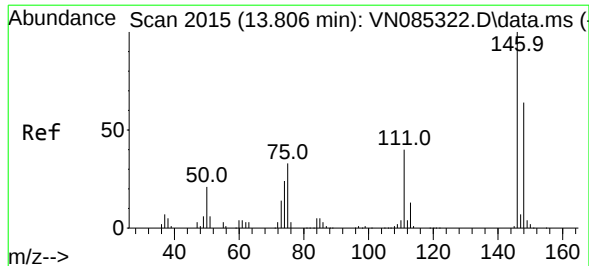
Ion Ratio Lower Upper

152 100

115 62.2 30.4 91.3

150 158.5 0.0 345.0





#88

1,4-Dichlorobenzene

Concen: 4.759 ug/l

RT: 13.806 min Scan# 2015

Delta R.T. 0.000 min

Lab File: VN085409.D

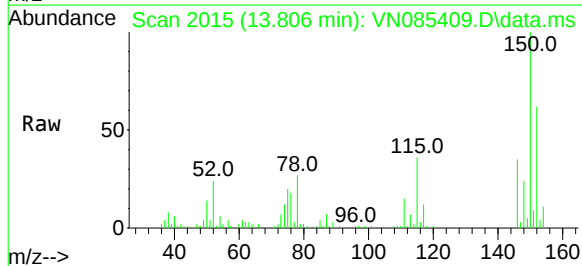
Acq: 09 Jan 2025 15:15

Instrument :

MSVOA_N

ClientSampleId :

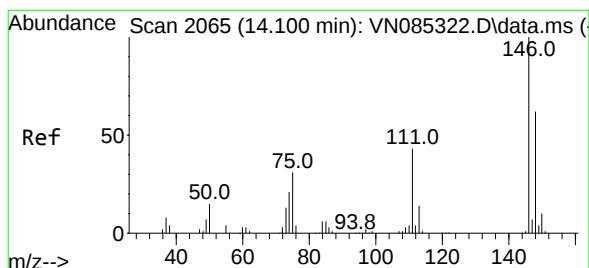
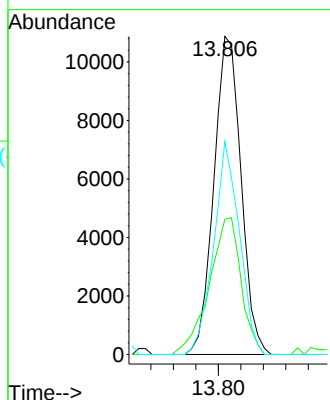
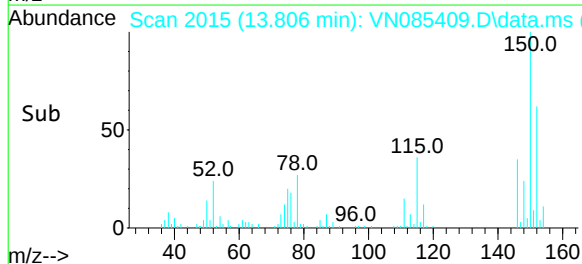
250108071-01-VOA



Tgt Ion:	146	Resp:	18257
Ion Ratio	Lower	Upper	
146	100		
111	50.3	20.8	62.5
148	63.5	31.7	95.1

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 01/10/2025
Supervised By :Semsettin Yesilyurt 01/10/2025



#91

1,2-Dichlorobenzene

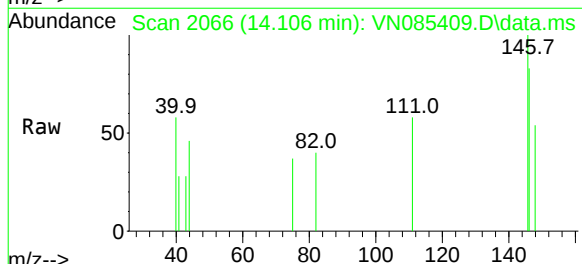
Concen: 0.355 ug/l

RT: 14.106 min Scan# 2066

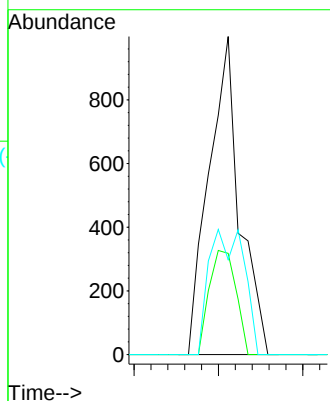
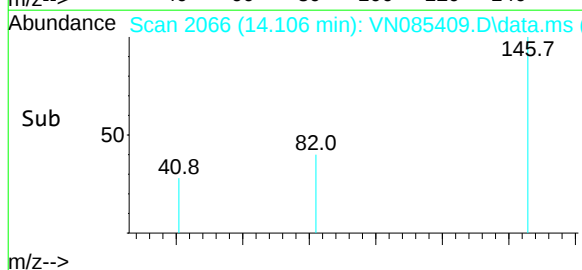
Delta R.T. 0.006 min

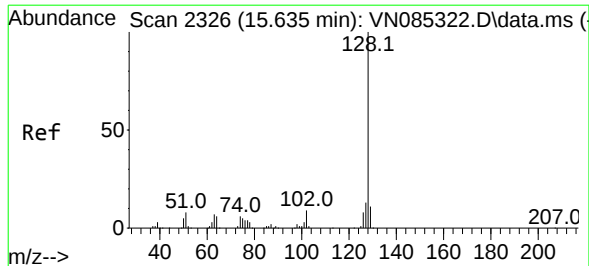
Lab File: VN085409.D

Acq: 09 Jan 2025 15:15



Tgt Ion:	146	Resp:	1264
Ion Ratio	Lower	Upper	
146	100		
111	28.5	21.8	65.3
148	44.9	31.4	94.2





#95

Naphthalene

Concen: 0.961 ug/l

RT: 15.635 min Scan# 23

Delta R.T. 0.000 min

Lab File: VN085409.D

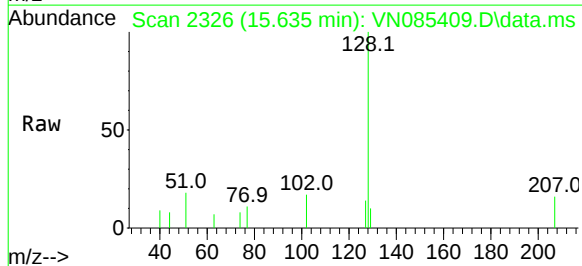
Acq: 09 Jan 2025 15:15

Instrument :

MSVOA_N

ClientSampleId :

250108071-01-VOA

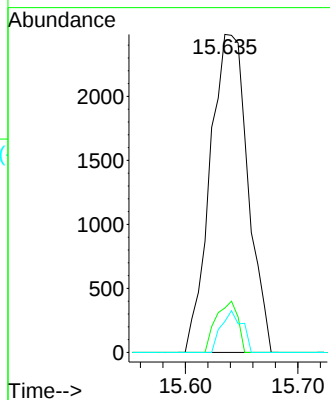
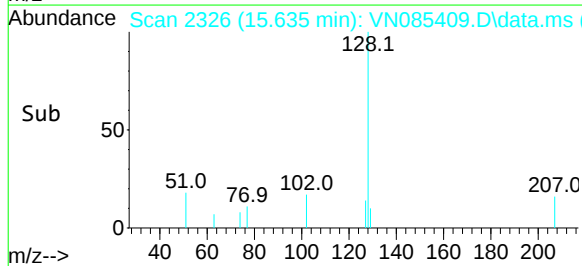


Tgt	Ion	128	Resp:	5788
Ion	Ratio	128	Lower	Upper
128	100			
127	9.4	10.6	16.0	#
129	7.3	8.5	12.7	#

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 01/10/2025
Supervised By :Semsettin Yesilyurt 01/10/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN010925\
 Data File : VN085409.D
 Acq On : 09 Jan 2025 15:15
 Operator : JC\MD
 Sample : Q1038-01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 250108071-01-VOA

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\82N122724W.M

Title : SW846 8260

Signal : TIC: VN085409.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.148	30	33	39	rVB3	12364	17764	1.69%	0.272%
2	2.489	83	91	98	rBV3	12166	25169	2.39%	0.385%
3	3.959	332	341	354	rVB3	17628	44949	4.27%	0.688%
4	4.448	413	424	435	rBV2	10449	29906	2.84%	0.458%
5	5.512	593	605	620	rBV3	32388	119615	11.36%	1.831%
6	7.424	917	930	942	rBV	106197	288664	27.40%	4.418%
7	7.836	989	1000	1017	rBV	118474	302897	28.75%	4.636%
8	8.159	1045	1055	1060	rBV	148068	356043	33.80%	5.449%
9	8.218	1060	1065	1076	rVB	258839	581677	55.22%	8.903%
10	8.571	1116	1125	1135	rBV	166889	389178	36.95%	5.956%
11	9.094	1205	1214	1224	rBV	379140	787838	74.79%	12.058%
12	9.694	1309	1316	1322	rBV	6794	11528	1.09%	0.176%
13	10.565	1456	1464	1476	rBV	576377	1053374	100.00%	16.122%
14	11.306	1584	1590	1595	rBV4	10262	19498	1.85%	0.298%
15	11.865	1674	1685	1695	rBV	507100	1006806	95.58%	15.409%
16	12.076	1716	1721	1733	rVB5	3903	11244	1.07%	0.172%
17	12.847	1845	1852	1861	rBV	367373	616006	58.48%	9.428%
18	13.606	1973	1981	1985	rBV3	6272	10794	1.02%	0.165%
19	13.788	2004	2012	2022	rBV	469180	850037	80.70%	13.010%
20	15.276	2258	2265	2271	rBV5	6081	10759	1.02%	0.165%

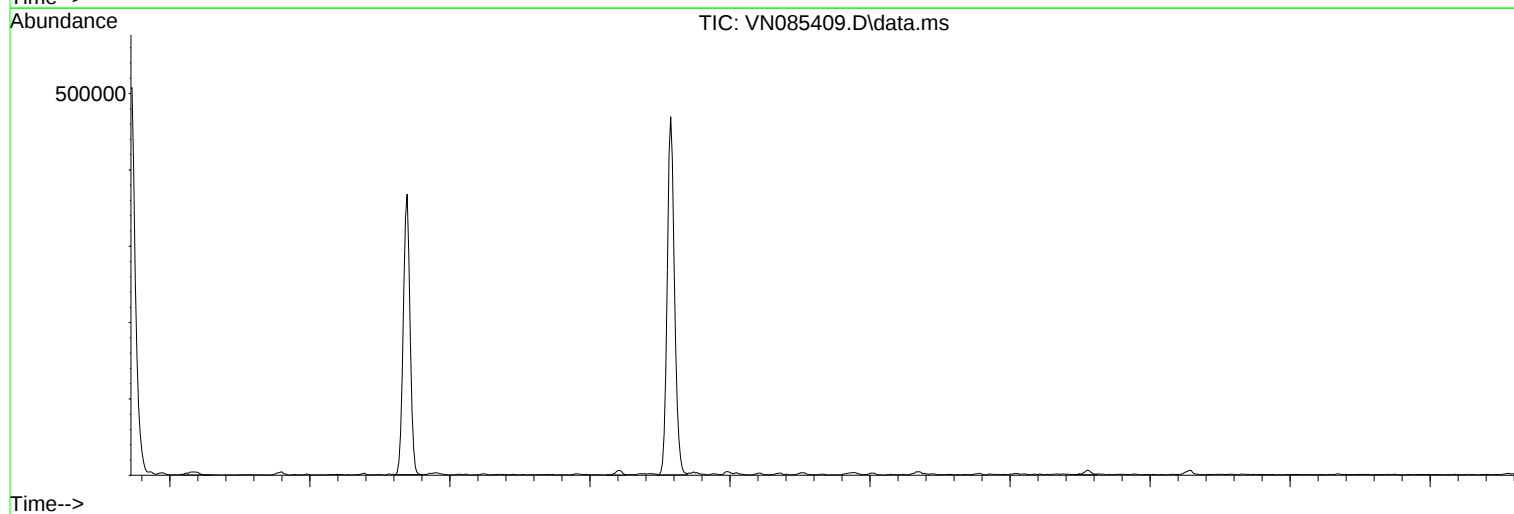
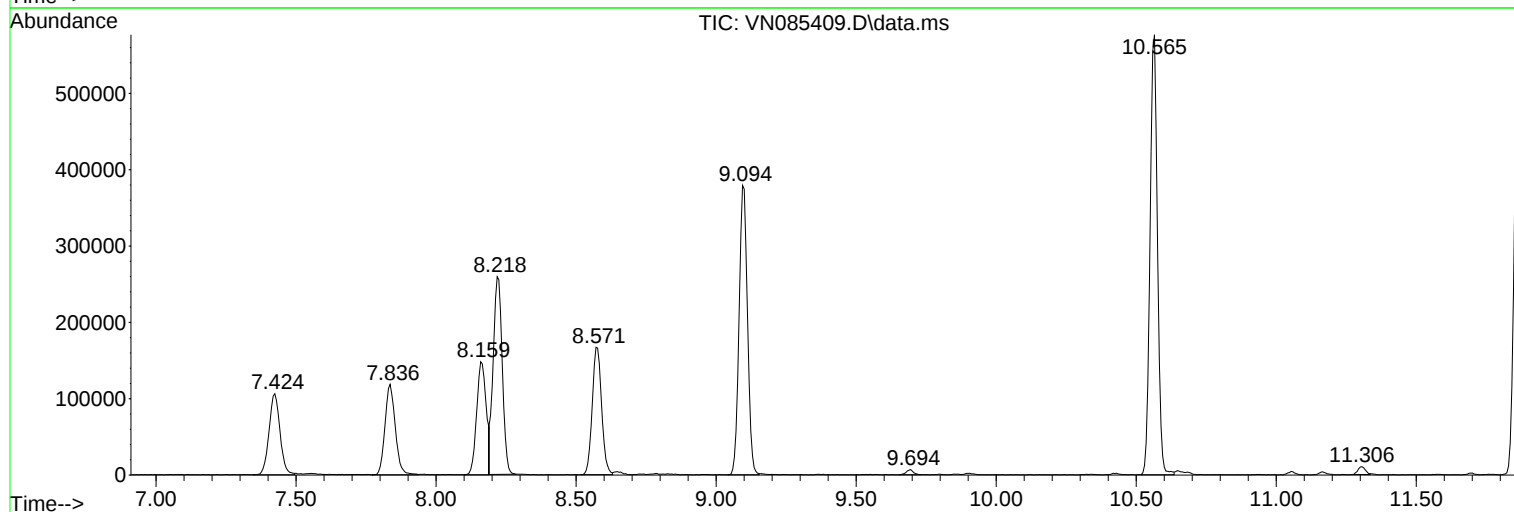
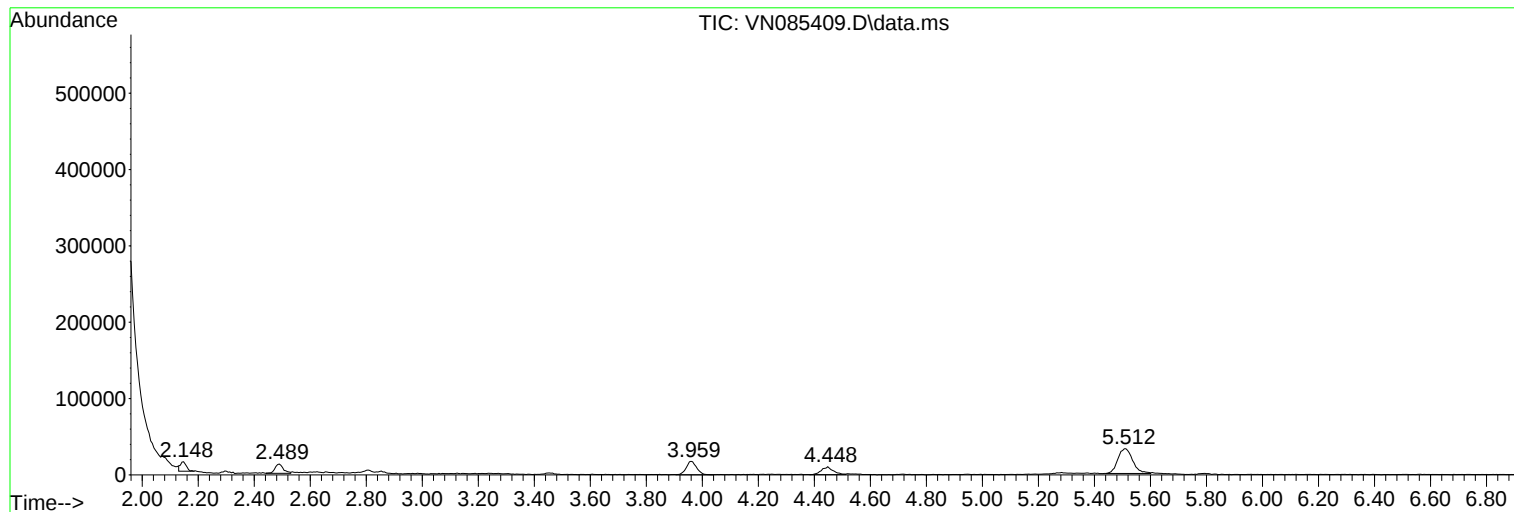
Sum of corrected areas: 6533746

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN010925\
Data File : VN085409.D
Acq On : 09 Jan 2025 15:15
Operator : JC\MD
Sample : Q1038-01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
250108071-01-VOA

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N122724W.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN010925\
Data File : VN085409.D
Acq On : 09 Jan 2025 15:15
Operator : JC\MD
Sample : Q1038-01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
250108071-01-VOA

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N122724W.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\VN010925\
Data File : VN085409.D
Acq On : 09 Jan 2025 15:15
Operator : JC\MD
Sample : Q1038-01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
250108071-01-VOA

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N122724W.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:	Garden State Laboratories, Inc.		Date Collected:	01/08/25	
Project:	Waste Water 2025		Date Received:	01/09/25	
Client Sample ID:	250108055-07-TRIP-BLANK		SDG No.:	Q1038	
Lab Sample ID:	Q1038-02		Matrix:	Water	
Analytical Method:	SW8260		% Solid:	0	
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000	uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group2	
GC Column:	RXI-624	ID : 0.25	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085408.D	1		01/09/25 14:51	VN010925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	0.21	U	0.21	1.00	ug/L
74-87-3	Chloromethane	0.35	U	0.35	1.00	ug/L
75-01-4	Vinyl Chloride	0.34	U	0.34	1.00	ug/L
74-83-9	Bromomethane	1.40	U	1.40	5.00	ug/L
75-00-3	Chloroethane	0.56	U	0.56	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.34	U	0.34	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	0.26	U	0.26	1.00	ug/L
67-64-1	Acetone	1.40	U	1.40	5.00	ug/L
75-15-0	Carbon Disulfide	0.32	U	0.32	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	0.60	U	0.60	1.00	ug/L
75-09-2	Methylene Chloride	0.32	U	0.32	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.25	U	0.25	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.23	U	0.23	1.00	ug/L
110-82-7	Cyclohexane	1.60	U	1.60	5.00	ug/L
78-93-3	2-Butanone	1.30	U	1.30	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	0.25	U	0.25	1.00	ug/L
74-97-5	Bromochloromethane	0.18	U	0.18	1.00	ug/L
67-66-3	Chloroform	0.26	U	0.26	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.19	U	0.19	1.00	ug/L
108-87-2	Methylcyclohexane	0.19	U	0.19	1.00	ug/L
71-43-2	Benzene	0.16	U	0.16	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.24	U	0.24	1.00	ug/L
79-01-6	Trichloroethene	0.32	U	0.32	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.19	U	0.19	1.00	ug/L
75-27-4	Bromodichloromethane	0.24	U	0.24	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	0.75	U	0.75	5.00	ug/L
108-88-3	Toluene	0.18	U	0.18	1.00	ug/L

Report of Analysis

Client:	Garden State Laboratories, Inc.			Date Collected:	01/08/25
Project:	Waste Water 2025			Date Received:	01/09/25
Client Sample ID:	250108055-07-TRIP-BLANK			SDG No.:	Q1038
Lab Sample ID:	Q1038-02			Matrix:	Water
Analytical Method:	SW8260			% Solid:	0
Sample Wt/Vol:	5	Units:	mL	Final Vol:	5000 uL
Soil Aliquot Vol:			uL	Test:	VOCMS Group2
GC Column:	RXI-624	ID :	0.25	Level :	LOW
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085408.D	1		01/09/25 14:51	VN010925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	0.21	U	0.21	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.18	U	0.18	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	1.10	U	1.10	5.00	ug/L
124-48-1	Dibromochloromethane	0.18	U	0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	0.16	U	0.16	1.00	ug/L
127-18-4	Tetrachloroethene	0.25	U	0.25	1.00	ug/L
108-90-7	Chlorobenzene	0.13	U	0.13	1.00	ug/L
100-41-4	Ethyl Benzene	0.16	U	0.16	1.00	ug/L
179601-23-1	m/p-Xylenes	0.31	U	0.31	2.00	ug/L
95-47-6	o-Xylene	0.14	U	0.14	1.00	ug/L
100-42-5	Styrene	0.16	U	0.16	1.00	ug/L
75-25-2	Bromoform	0.21	U	0.21	1.00	ug/L
98-82-8	Isopropylbenzene	0.13	U	0.13	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.27	U	0.27	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.24	U	0.24	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.27	U	0.27	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.19	U	0.19	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.46	U	0.46	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.42	U	0.42	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.51	U	0.51	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	55.7		74 - 125	111%	SPK: 50
1868-53-7	Dibromofluoromethane	52.7		75 - 124	105%	SPK: 50
2037-26-5	Toluene-d8	52.0		86 - 113	104%	SPK: 50
460-00-4	4-Bromofluorobenzene	47.4		77 - 121	95%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	172000	8.218			
540-36-3	1,4-Difluorobenzene	318000	9.1			
3114-55-4	Chlorobenzene-d5	277000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	110000	13.788			

TENTATIVE IDENTIFIED COMPOUNDS

Report of Analysis

Client:	Garden State Laboratories, Inc.	Date Collected:	01/08/25
Project:	Waste Water 2025	Date Received:	01/09/25
Client Sample ID:	250108055-07-TRIP-BLANK	SDG No.:	Q1038
Lab Sample ID:	Q1038-02	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group2
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085408.D	1		01/09/25 14:51	VN010925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
91-20-3	Naphthalene	2.80	J		15.6	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\VN010925\
Data File : VN085408.D
Acq On : 09 Jan 2025 14:51
Operator : JC\MD
Sample : Q1038-02
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
250108055-07-TRIP-BLANK

Quant Time: Jan 10 00:21:13 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N122724W.M
Quant Title : SW846 8260
QLast Update : Sat Dec 28 01:36:16 2024
Response via : Initial Calibration

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

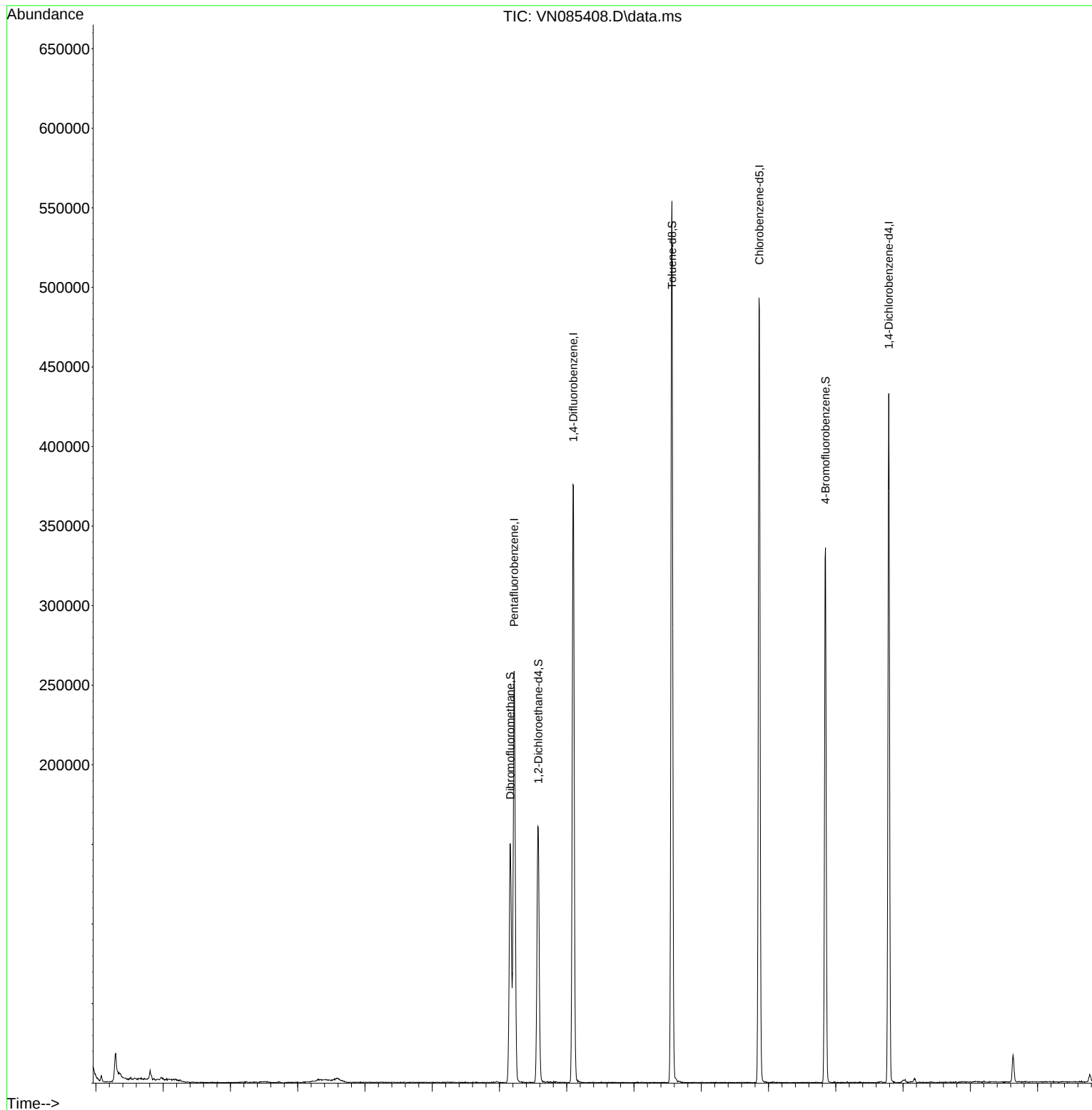
Internal Standards						
1) Pentafluorobenzene	8.218	168	171912	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	317940	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	276650	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	109684	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.576	65	136537	55.685	ug/l	0.00
Spiked Amount	50.000	Range 74 - 125	Recovery	=	111.360%	
35) Dibromofluoromethane	8.159	113	104519	52.695	ug/l	0.00
Spiked Amount	50.000	Range 75 - 124	Recovery	=	105.380%	
50) Toluene-d8	10.565	98	378242	51.967	ug/l	0.00
Spiked Amount	50.000	Range 86 - 113	Recovery	=	103.940%	
62) 4-Bromofluorobenzene	12.847	95	114597	47.408	ug/l	0.00
Spiked Amount	50.000	Range 77 - 121	Recovery	=	94.820%	
Target Compounds						
95) Naphthalene	15.635	128	15753	2.758	ug/l	Qvalue 100

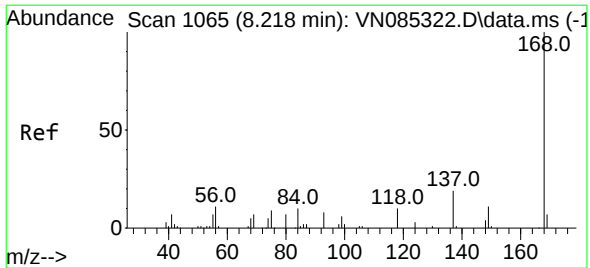
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN010925\
Data File : VN085408.D
Acq On : 09 Jan 2025 14:51
Operator : JC\MD
Sample : Q1038-02
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
250108055-07-TRIP-BLANK

Quant Time: Jan 10 00:21:13 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N122724W.M
Quant Title : SW846 8260
QLast Update : Sat Dec 28 01:36:16 2024
Response via : Initial Calibration

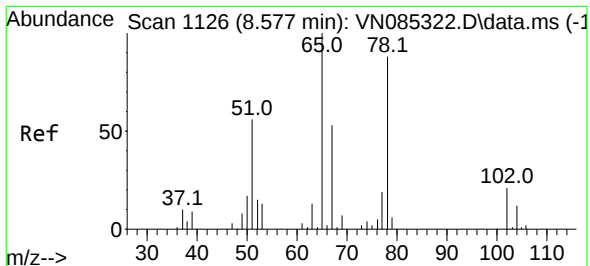
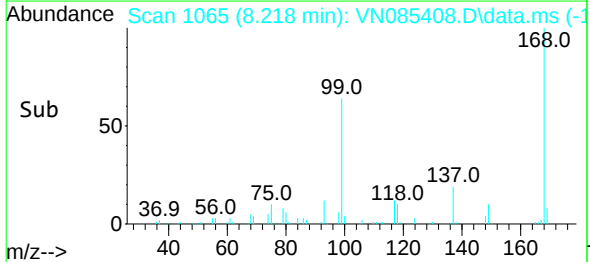
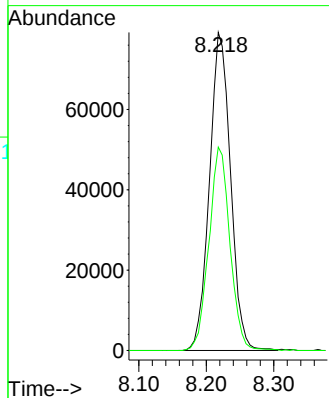
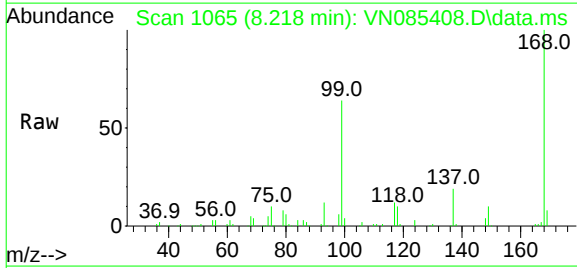




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.218 min Scan# 1065
Delta R.T. -0.000 min
Lab File: VN085408.D
Acq: 09 Jan 2025 14:51

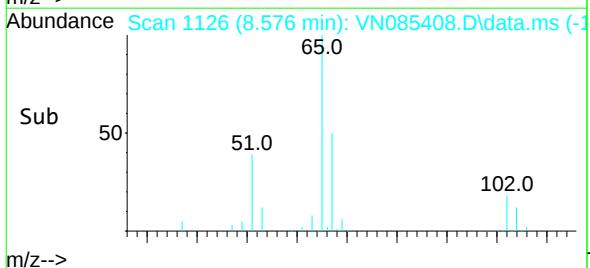
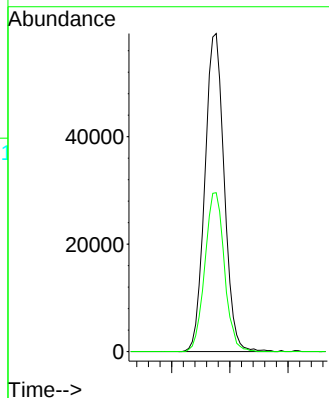
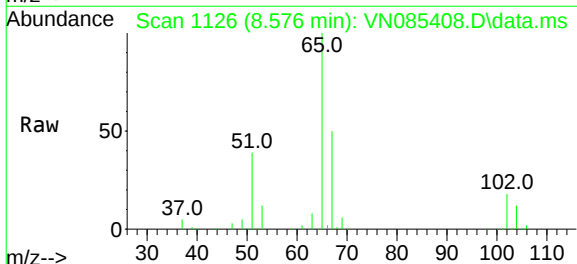
Instrument :
MSVOA_N
ClientSampleId :
250108055-07-TRIP-BLANK

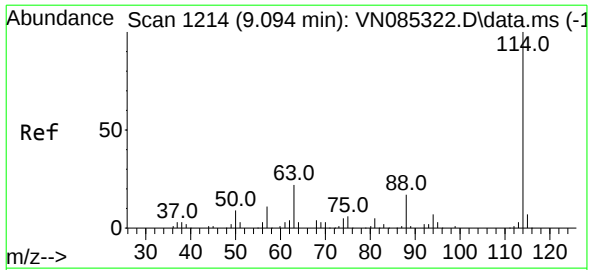
Tgt Ion:168 Resp: 171912
Ion Ratio Lower Upper
168 100
99 63.9 51.0 76.4



#33
1,2-Dichloroethane-d4
Concen: 55.685 ug/l
RT: 8.576 min Scan# 1126
Delta R.T. -0.000 min
Lab File: VN085408.D
Acq: 09 Jan 2025 14:51

Tgt Ion: 65 Resp: 136537
Ion Ratio Lower Upper
65 100
67 50.6 0.0 104.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 1214

Delta R.T. 0.006 min

Lab File: VN085408.D

Acq: 09 Jan 2025 14:51

Instrument :

MSVOA_N

ClientSampleId :

250108055-07-TRIP-BLANK

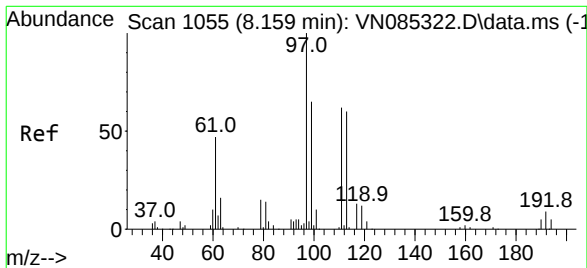
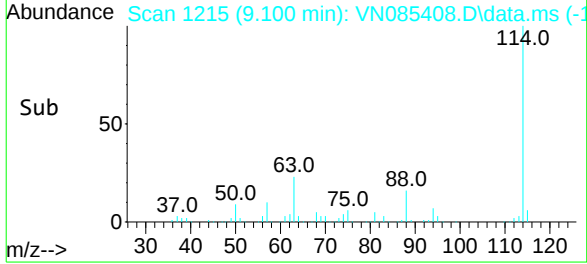
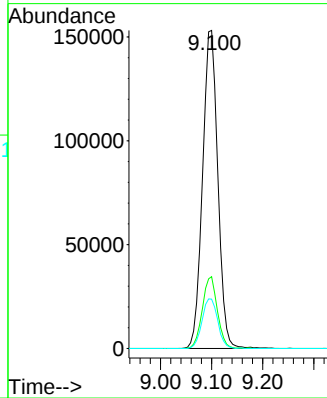
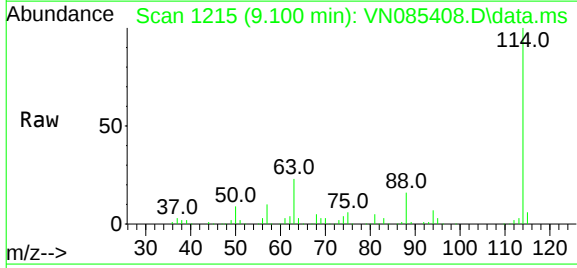
Tgt Ion:114 Resp: 317940

Ion Ratio Lower Upper

114 100

63 22.6 0.0 43.4

88 15.5 0.0 33.6



#35

Dibromofluoromethane

Concen: 52.695 ug/l

RT: 8.159 min Scan# 1055

Delta R.T. -0.000 min

Lab File: VN085408.D

Acq: 09 Jan 2025 14:51

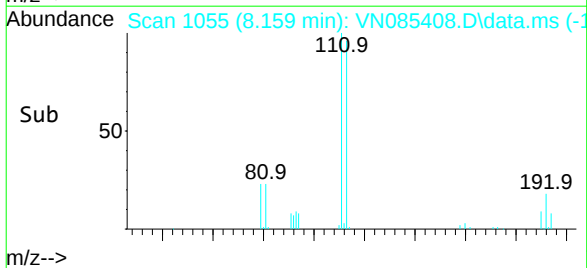
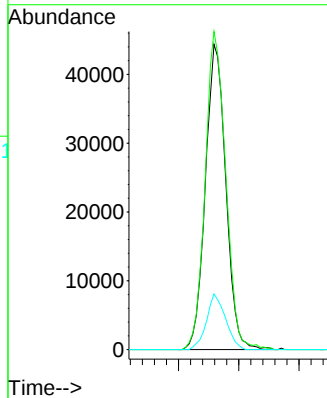
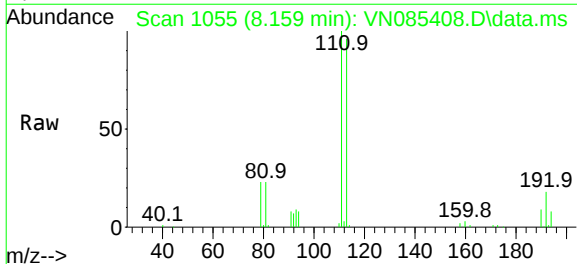
Tgt Ion:113 Resp: 104519

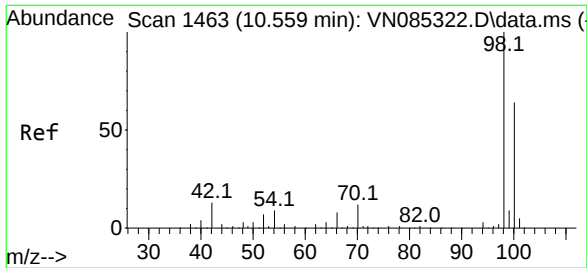
Ion Ratio Lower Upper

113 100

111 105.0 80.5 120.7

192 17.0 12.9 19.3





#50

Toluene-d8

Concen: 51.967 ug/l

RT: 10.565 min Scan# 1463

Delta R.T. 0.006 min

Lab File: VN085408.D

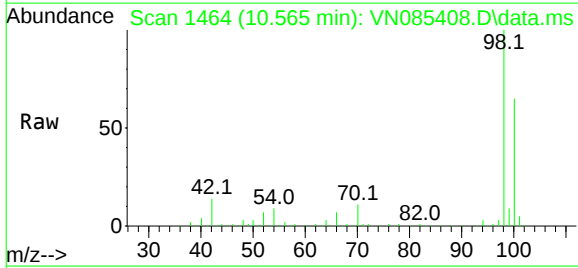
Acq: 09 Jan 2025 14:51

Instrument :

MSVOA_N

ClientSampleId :

250108055-07-TRIP-BLANK

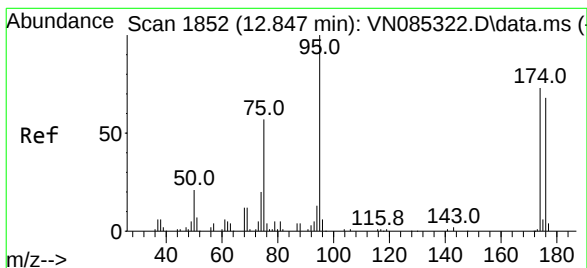
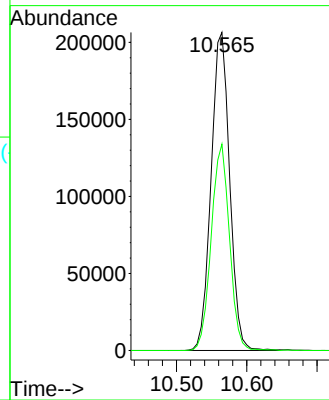
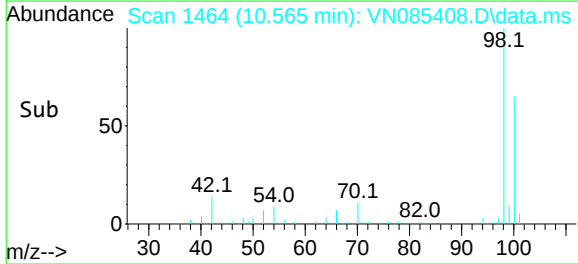


Tgt Ion: 98 Resp: 378242

Ion Ratio Lower Upper

98 100

100 63.8 51.5 77.3



#62

4-Bromofluorobenzene

Concen: 47.408 ug/l

RT: 12.847 min Scan# 1852

Delta R.T. -0.000 min

Lab File: VN085408.D

Acq: 09 Jan 2025 14:51

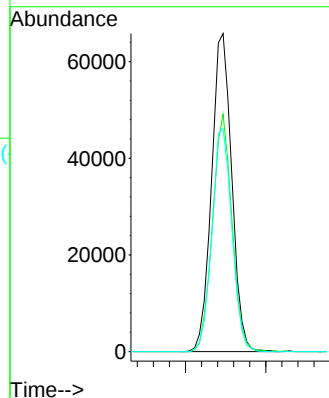
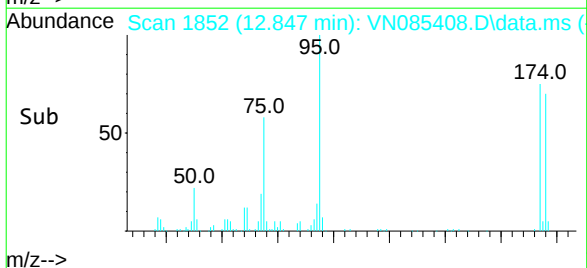
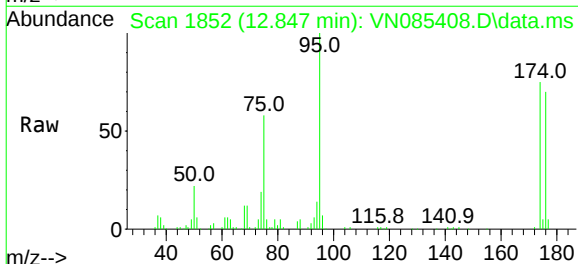
Tgt Ion: 95 Resp: 114597

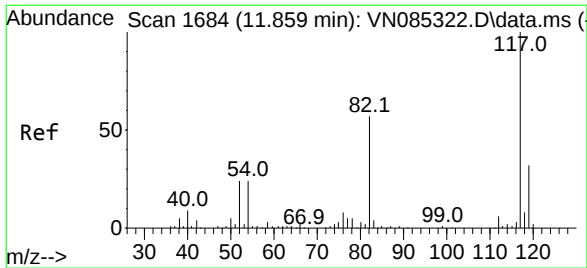
Ion Ratio Lower Upper

95 100

174 72.0 0.0 143.2

176 69.3 0.0 135.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.865 min Scan# 16

Delta R.T. 0.006 min

Lab File: VN085408.D

Acq: 09 Jan 2025 14:51

Instrument :

MSVOA_N

ClientSampleId :

250108055-07-TRIP-BLANK

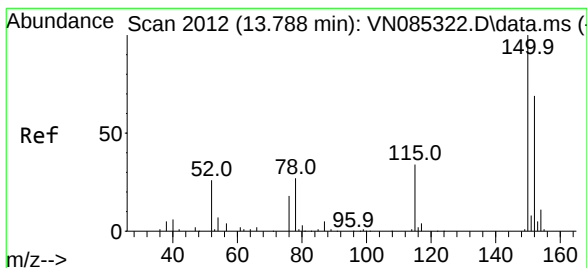
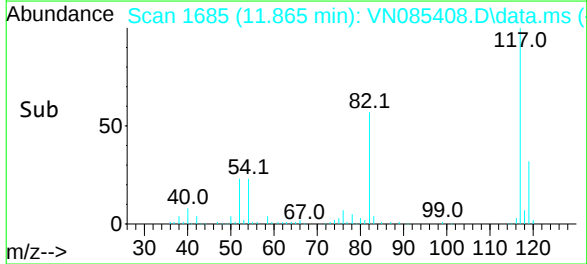
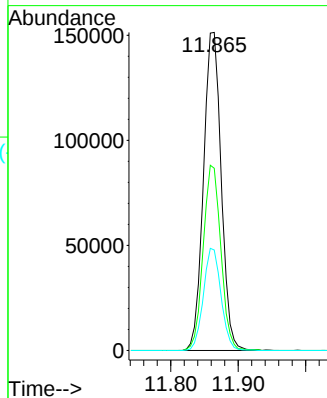
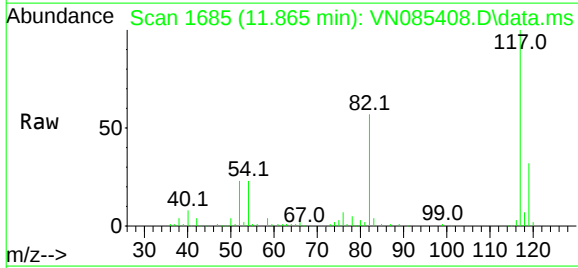
Tgt Ion:117 Resp: 276650

Ion Ratio Lower Upper

117 100

82 57.3 45.7 68.5

119 31.6 25.8 38.8



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.788 min Scan# 2012

Delta R.T. -0.000 min

Lab File: VN085408.D

Acq: 09 Jan 2025 14:51

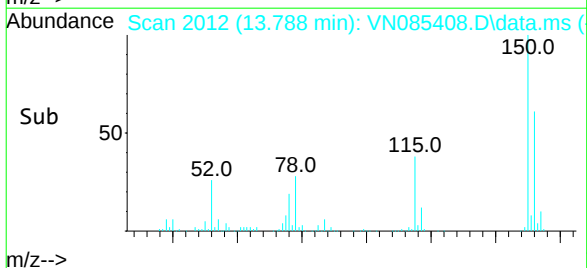
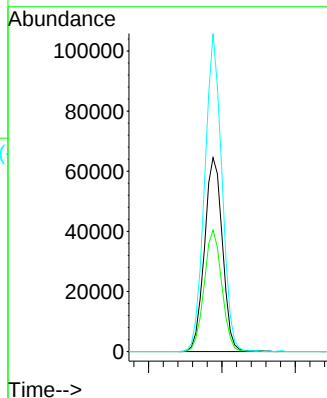
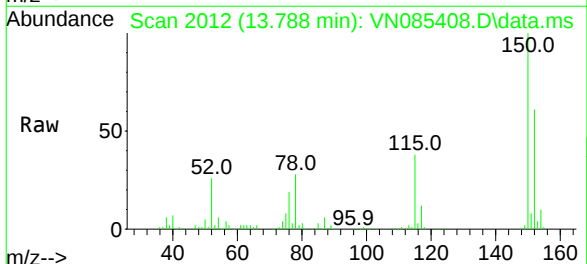
Tgt Ion:152 Resp: 109684

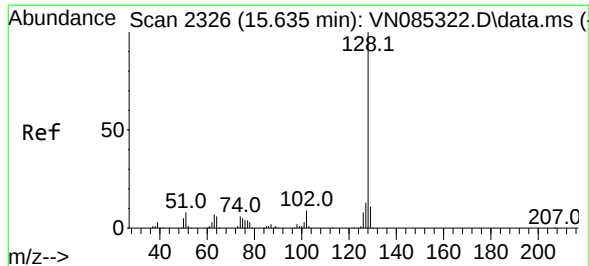
Ion Ratio Lower Upper

152 100

115 61.7 30.4 91.3

150 156.7 0.0 345.0





#95

Naphthalene

Concen: 2.758 ug/l

RT: 15.635 min Scan# 23

Delta R.T. -0.000 min

Lab File: VN085408.D

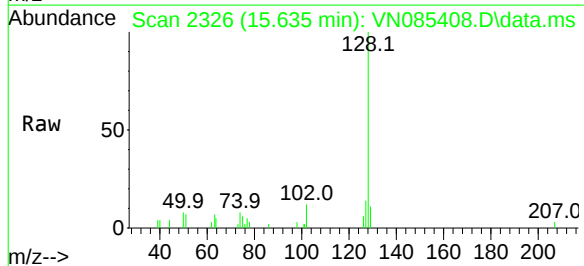
Acq: 09 Jan 2025 14:51

Instrument :

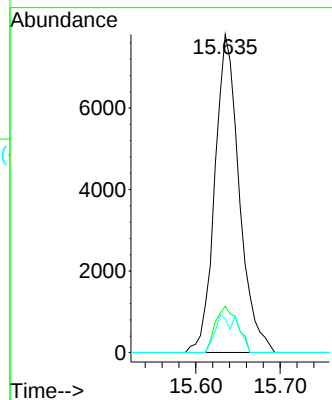
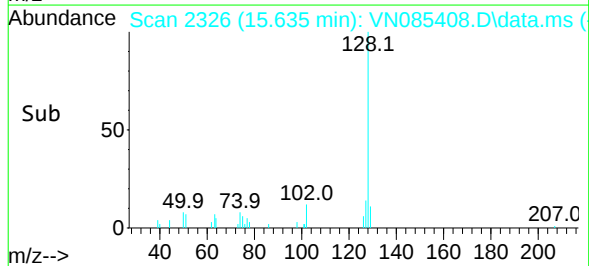
MSVOA_N

ClientSampleId :

250108055-07-TRIP-BLANK



Tgt Ion:	128	Resp:	15753
Ion	Ratio	Lower	Upper
128	100		
127	13.2	10.6	16.0
129	10.9	8.5	12.7



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN010925\
 Data File : VN085408.D
 Acq On : 09 Jan 2025 14:51
 Operator : JC\MD
 Sample : Q1038-02
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 250108055-07-TRIP-BLANK

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\82N122724W.M
 Title : SW846 8260

Signal : TIC: VN085408.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.295	49	58	65	rBV	17891	45521	4.44%	0.847%
2	2.806	140	145	151	rVB4	5939	10452	1.02%	0.195%
3	8.159	1045	1055	1060	rBV	150156	350422	34.16%	6.523%
4	8.218	1060	1065	1079	rVB	258246	555462	54.14%	10.340%
5	8.571	1116	1125	1138	rBV	160962	372624	36.32%	6.937%
6	9.094	1204	1214	1224	rBV	375581	780305	76.06%	14.526%
7	10.565	1453	1464	1478	rBV	553921	1025911	100.00%	19.098%
8	11.859	1676	1684	1699	rBV	493146	900533	87.78%	16.764%
9	12.847	1844	1852	1864	rBV	336003	580299	56.56%	10.803%
10	13.788	2004	2012	2024	rVB	432803	718113	70.00%	13.368%
11	15.635	2320	2326	2336	rVB	16818	32160	3.13%	0.599%

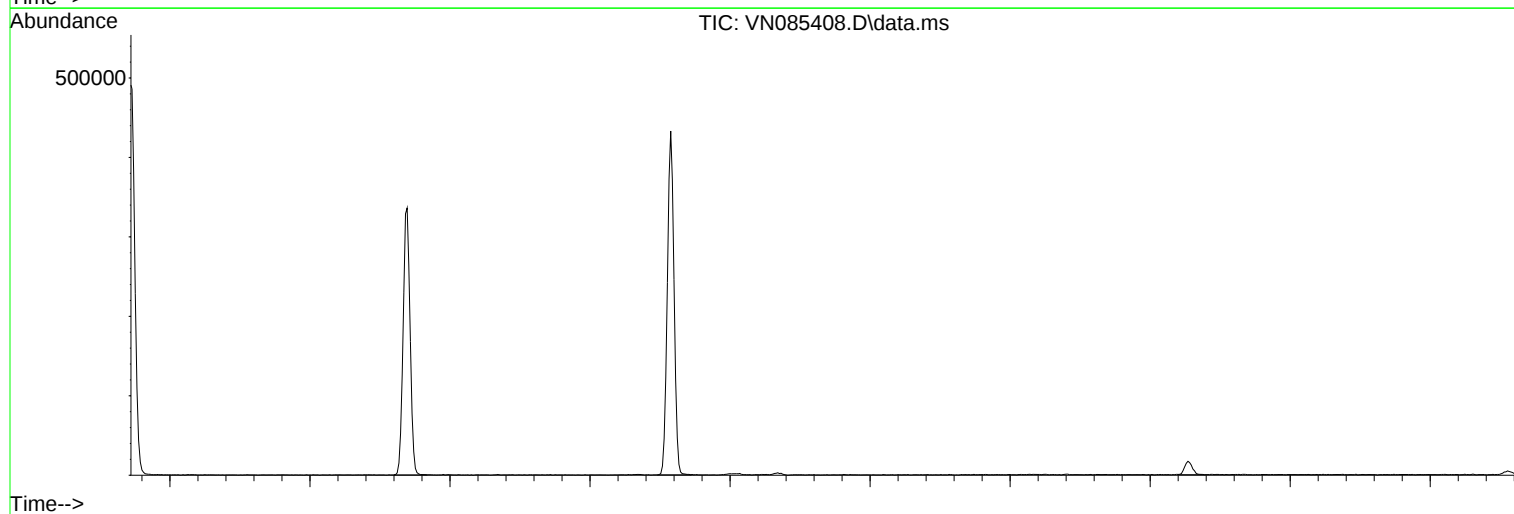
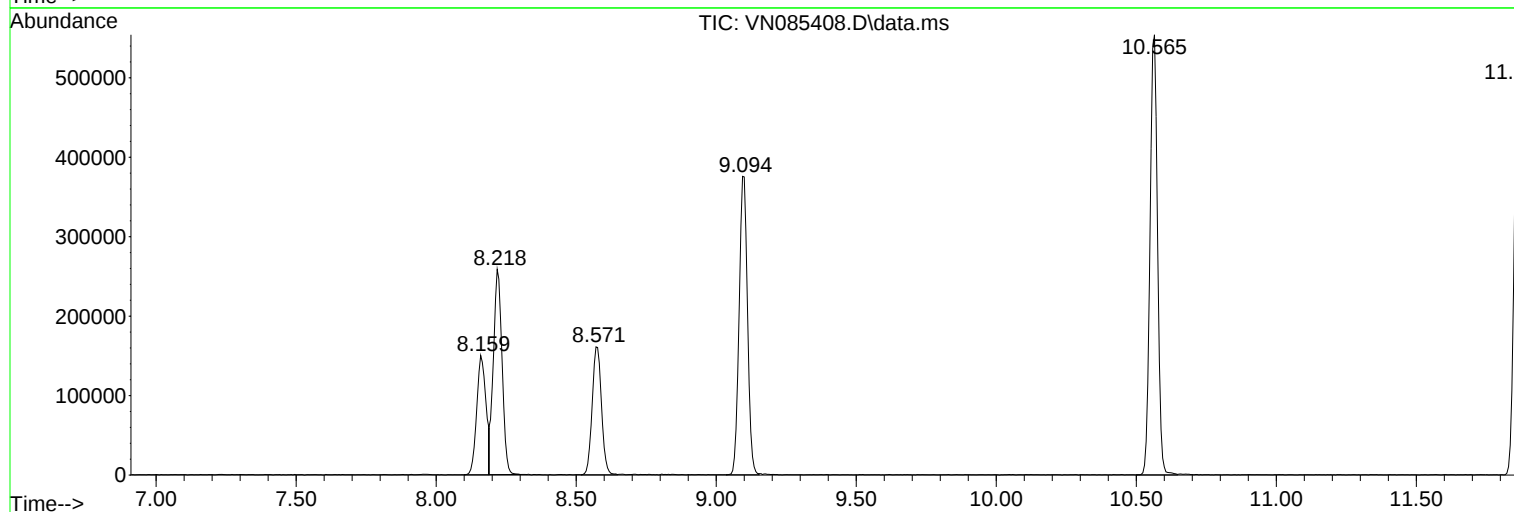
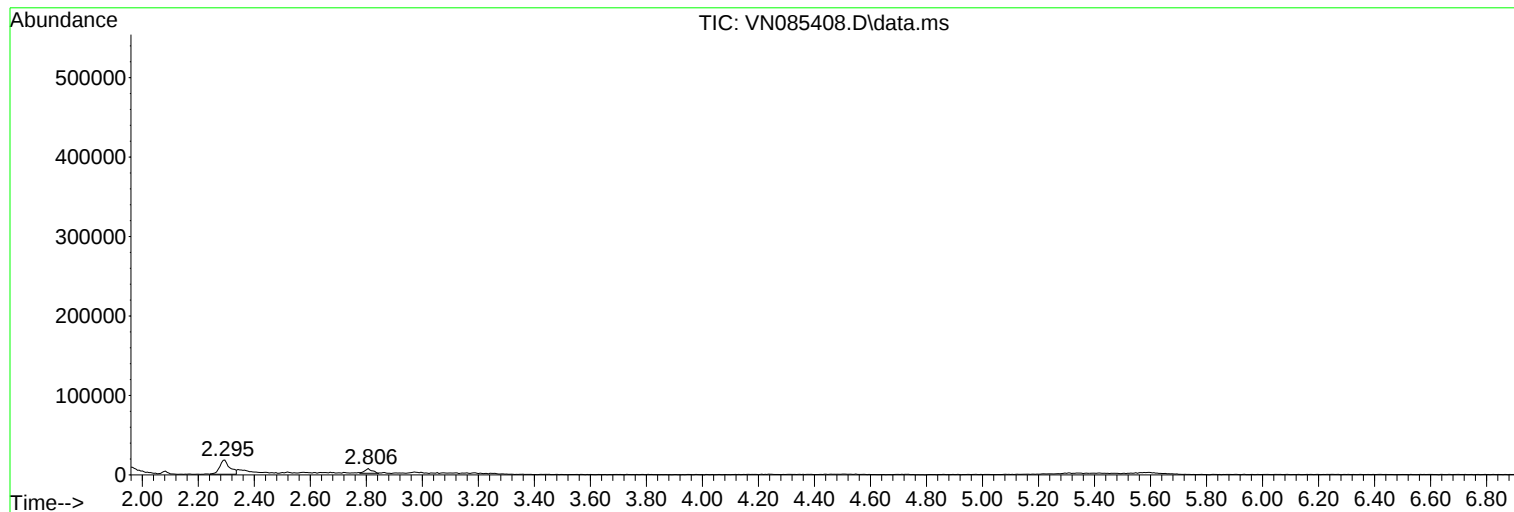
Sum of corrected areas: 5371802

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN010925\
Data File : VN085408.D
Acq On : 09 Jan 2025 14:51
Operator : JC\MD
Sample : Q1038-02
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
250108055-07-TRIP-BLANK

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N122724W.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN010925\
Data File : VN085408.D
Acq On : 09 Jan 2025 14:51
Operator : JC\MD
Sample : Q1038-02
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
250108055-07-TRIP-BLANK

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N122724W.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\VN010925\
Data File : VN085408.D
Acq On : 09 Jan 2025 14:51
Operator : JC\MD
Sample : Q1038-02
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
250108055-07-TRIP-BLANK

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N122724W.M
Quant Title : SW846 8260

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

TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
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CALIBRATION SUMMARY



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

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: GARD04
 Lab Code: CHEM Case No.: Q1038 SAS No.: Q1038 SDG No.: Q1038
 Instrument ID: MSVOA_N Calibration Date(s): 12/27/2024 12/27/2024
 Heated Purge: (Y/N) N Calibration Time(s): 10:26 12:48
 GC Column: RXI-624 ID: 0.25 (mm)

LAB FILE ID:		RRF100 = VN085321.D		RRF050 = VN085322.D		RRF020 = VN085323.D			
		RRF010 = VN085324.D		RRF005 = VN085325.D		RRF001 = VN085326.D			
COMPOUND	RRF100	RRF050	RRF020	RRF010	RRF005	RRF001	RRF	% RSD	
Dichlorodifluoromethane	0.677	0.699	0.658	0.699	0.674	0.649	0.676	3	
Chloromethane	0.674	0.686	0.737	0.739	0.744	0.980	0.760	14.7	
Vinyl Chloride	0.766	0.758	0.827	0.781	0.831	0.859	0.804	5.1	
Bromomethane	0.481	0.481	0.535	0.540	0.590		0.526	8.7	
Chloroethane	0.490	0.482	0.515	0.516	0.534	0.522	0.510	3.9	
Trichlorofluoromethane	1.023	1.022	1.089	1.074	1.078	1.055	1.057	2.7	
1,1,2-Trichlorotrifluoroethane	0.584	0.578	0.605	0.614	0.634	0.592	0.601	3.4	
1,1-Dichloroethene	0.549	0.538	0.584	0.539	0.598	0.526	0.556	5.1	
Acetone	0.218	0.223	0.250	0.233	0.234	0.250	0.235	5.6	
Carbon Disulfide	1.551	1.536	1.730	1.607	1.702	2.016	1.690	10.5	
Methyl tert-butyl Ether	1.876	1.869	1.934	1.790	1.786	1.581	1.806	6.9	
Methyl Acetate	0.689	0.696	0.746	0.728	0.719	0.729	0.718	3	
Methylene Chloride	0.606	0.613	0.653	0.624	0.643	0.645	0.631	3	
trans-1,2-Dichloroethene	0.567	0.565	0.618	0.569	0.590	0.573	0.580	3.5	
1,1-Dichloroethane	1.145	1.119	1.209	1.141	1.170	1.143	1.154	2.7	
Cyclohexane	0.984	0.979	1.056	1.055	1.196		1.054	8.3	
2-Butanone	0.357	0.367	0.390	0.362	0.368	0.339	0.364	4.5	
Carbon Tetrachloride	0.516	0.502	0.534	0.491	0.492	0.452	0.498	5.5	
cis-1,2-Dichloroethene	0.701	0.691	0.731	0.654	0.662	0.649	0.681	4.7	
Bromochloromethane	0.560	0.532	0.540	0.535	0.594	0.457	0.536	8.4	
Chloroform	1.155	1.133	1.244	1.161	1.160	1.233	1.181	3.9	
1,1,1-Trichloroethane	1.043	1.022	1.099	1.047	1.062	1.055	1.055	2.4	
Methylcyclohexane	0.540	0.504	0.513	0.450	0.450	0.387	0.474	11.7	
Benzene	1.412	1.377	1.481	1.356	1.387	1.273	1.381	4.9	
1,2-Dichloroethane	0.489	0.473	0.546	0.494	0.493	0.475	0.495	5.3	
Trichloroethene	0.328	0.311	0.345	0.310	0.324	0.344	0.327	4.7	
1,2-Dichloropropane	0.353	0.339	0.377	0.351	0.348	0.336	0.351	4.1	
Bromodichloromethane	0.526	0.505	0.529	0.510	0.511	0.459	0.507	5	
4-Methyl-2-Pentanone	0.442	0.434	0.462	0.427	0.417	0.338	0.420	10.2	
Toluene	0.881	0.846	0.892	0.810	0.829	0.674	0.822	9.6	

* 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: CHEMTECH Contract: GARD04
 Lab Code: CHEM Case No.: Q1038 SAS No.: Q1038 SDG No.: Q1038
 Instrument ID: MSVOA_N Calibration Date(s): 12/27/2024 12/27/2024
 Heated Purge: (Y/N) N Calibration Time(s): 10:26 12:48
 GC Column: RXI-624 ID: 0.25 (mm)

LAB FILE ID:		RRF100 = VN085321.D		RRF050 = VN085322.D		RRF020 = VN085323.D			
		RRF010 = VN085324.D		RRF005 = VN085325.D		RRF001 = VN085326.D			
COMPOUND	RRF100	RRF050	RRF020	RRF010	RRF005	RRF001	RRF	% RSD	
t-1,3-Dichloropropene	0.555	0.529	0.526	0.483	0.498	0.398	0.498	11.1	
cis-1,3-Dichloropropene	0.582	0.555	0.585	0.526	0.528	0.457	0.539	8.8	
1,1,2-Trichloroethane	0.314	0.306	0.320	0.298	0.328	0.297	0.310	4	
2-Hexanone	0.313	0.308	0.327	0.294	0.281	0.226	0.291	12.2	
Dibromochloromethane	0.385	0.371	0.378	0.346	0.349	0.269	0.350	12.1	
1,2-Dibromoethane	0.318	0.313	0.335	0.309	0.305	0.263	0.307	7.8	
Tetrachloroethene	0.321	0.312	0.344	0.331	0.323	0.270	0.317	8.1	
Chlorobenzene	1.080	1.049	1.131	1.031	1.067	1.124	1.080	3.7	
Ethyl Benzene	1.970	1.877	1.944	1.715	1.729	1.546	1.797	9.1	
m/p-Xylenes	0.746	0.709	0.740	0.634	0.644	0.473	0.658	15.5	
o-Xylene	0.708	0.689	0.703	0.611	0.602	0.504	0.636	12.5	
Styrene	1.209	1.147	1.172	0.964	0.964	0.730	1.031	17.6	
Bromoform	0.273	0.263	0.275	0.247	0.243	0.207	0.251	10.1	
Isopropylbenzene	3.905	3.731	3.983	3.596	3.684	2.674	3.596	13.2	
1,1,2,2-Tetrachloroethane	1.085	1.064	1.196	1.149	1.176	1.201	1.145	5.1	
1,3-Dichlorobenzene	1.645	1.580	1.732	1.555	1.655	1.523	1.615	4.7	
1,4-Dichlorobenzene	1.633	1.568	1.753	1.602	1.666	1.732	1.659	4.4	
1,2-Dichlorobenzene	1.529	1.513	1.672	1.592	1.543	1.382	1.538	6.2	
1,2-Dibromo-3-Chloropropane	0.195	0.202	0.224	0.200	0.212	0.189	0.204	6.1	
1,2,4-Trichlorobenzene	0.805	0.761	0.825	0.732	0.752	0.731	0.768	5.1	
1,2,3-Trichlorobenzene	0.763	0.746	0.811	0.768	0.787	0.728	0.767	3.8	
1,2-Dichloroethane-d4	0.715	0.717	0.684	0.692	0.757		0.713	4	
Dibromofluoromethane	0.315	0.317	0.293	0.304	0.330		0.312	4.5	
Toluene-d8	1.189	1.161	1.070	1.075	1.229		1.145	6.1	
4-Bromofluorobenzene	0.407	0.401	0.362	0.347	0.383		0.380	6.6	

* 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 : 82N122724W.M
 Title : SW846 8260
 Last Update : Sat Dec 28 01:36:16 2024
 Response Via : Initial Calibration

Calibration Files

1 =VN085326.D 5 =VN085325.D 10 =VN085324.D 20 =VN085323.D 50 =VN085322.D 100 =VN085321.

D

	Compound	1	5	10	20	50	100	Avg	%RSD
1) I	Pentafluorobenzene	-----ISTD-----							
2) T	Dichlorodifluo...	0.649	0.674	0.699	0.658	0.699	0.677	0.676	3.04
3) P	Chloromethane	0.980	0.744	0.739	0.737	0.686	0.674	0.760	14.72
4) C	Vinyl Chloride	0.859	0.831	0.781	0.827	0.758	0.766	0.804	5.12#
5) T	Bromomethane		0.590	0.540	0.535	0.481	0.481	0.526	8.73
6) T	Chloroethane	0.522	0.534	0.516	0.515	0.482	0.490	0.510	3.87
7) T	Trichlorofluor...	1.055	1.078	1.074	1.089	1.022	1.023	1.057	2.72
8) T	Diethyl Ether	0.283	0.363	0.361	0.373	0.357	0.362	0.350	9.45
9) T	1,1,2-Trichlor...	0.592	0.634	0.614	0.605	0.578	0.584	0.601	3.44
10) T	Methyl Iodide		0.666	0.666	0.722	0.716	0.709	0.696	3.92
11) T	Tert butyl alc...		0.096	0.092	0.093	0.086	0.080	0.089	7.11
12) CM	1,1-Dichloroet...	0.526	0.598	0.539	0.584	0.538	0.549	0.556	5.11#
13) T	Acrolein		0.153	0.142	0.140	0.130	0.131	0.139	6.69
14) T	Allyl chloride	0.915	0.890	0.900	0.909	0.855	0.867	0.889	2.65
15) T	Acrylonitrile	0.277	0.278	0.286	0.298	0.275	0.273	0.281	3.29
16) T	Acetone	0.250	0.234	0.233	0.250	0.223	0.218	0.235	5.60
17) T	Carbon Disulfide	2.016	1.702	1.607	1.730	1.536	1.551	1.690	10.52
18) T	Methyl Acetate	0.729	0.719	0.728	0.746	0.696	0.689	0.718	3.03
19) T	Methyl tert-bu...	1.581	1.786	1.790	1.934	1.869	1.876	1.806	6.86
20) T	Methylene Chlo...	0.645	0.643	0.624	0.653	0.613	0.606	0.631	3.02
21) T	trans-1,2-Dich...	0.573	0.590	0.569	0.618	0.565	0.567	0.580	3.52
22) T	Diisopropyl ether	1.602	1.980	1.910	2.062	1.946	1.997	1.916	8.47
23) T	Vinyl Acetate	1.125	1.346	1.357	1.576	1.428	1.485	1.386	11.09
24) P	1,1-Dichloroet...	1.143	1.170	1.141	1.209	1.119	1.145	1.154	2.72
25) T	2-Butanone	0.339	0.368	0.362	0.390	0.367	0.357	0.364	4.51
26) T	2,2-Dichloropr...	0.878	1.057	0.995	1.089	1.029	1.021	1.011	7.21
27) T	cis-1,2-Dichlo...	0.649	0.662	0.654	0.731	0.691	0.701	0.681	4.72
28) T	Bromochloromet...	0.457	0.594	0.535	0.540	0.532	0.560	0.536	8.40
29) T	Tetrahydrofuran	0.204	0.230	0.238	0.255	0.239	0.240	0.234	7.19
30) C	Chloroform	1.233	1.160	1.161	1.244	1.133	1.155	1.181	3.86#
31) T	Cyclohexane		1.196	1.055	1.056	0.979	0.984	1.054	8.30
32) T	1,1,1-Trichlor...	1.055	1.062	1.047	1.099	1.022	1.043	1.055	2.44
33) S	1,2-Dichloroet...		0.757	0.692	0.684	0.717	0.715	0.713	3.99
34) I	1,4-Difluorobenzene	-----ISTD-----							
35) S	Dibromofluorom...		0.330	0.304	0.293	0.317	0.315	0.312	4.48
36) T	1,1-Dichloropr...	0.424	0.457	0.442	0.476	0.461	0.480	0.457	4.59
37) T	Ethyl Acetate	0.486	0.443	0.467	0.475	0.416	0.436	0.454	5.87
38) T	Carbon Tetrach...	0.452	0.492	0.491	0.534	0.502	0.516	0.498	5.52
39) T	Methylcyclohexane	0.387	0.450	0.450	0.513	0.504	0.540	0.474	11.72
40) TM	Benzene	1.273	1.387	1.356	1.481	1.377	1.412	1.381	4.95
41) T	Methacrylonitrile	0.183	0.237	0.242	0.245	0.236	0.251	0.232	10.70
42) TM	1,2-Dichloroet...	0.475	0.493	0.494	0.546	0.473	0.489	0.495	5.33
43) T	Isopropyl Acetate	0.732	0.720	0.721	0.789	0.745	0.778	0.747	3.94
44) TM	Trichloroethene	0.344	0.324	0.310	0.345	0.311	0.328	0.327	4.66
45) C	1,2-Dichloropr...	0.336	0.348	0.351	0.377	0.339	0.353	0.351	4.09#
46) T	Dibromomethane	0.221	0.250	0.248	0.256	0.240	0.247	0.244	4.98
47) T	Bromodichlorom...	0.459	0.511	0.510	0.529	0.505	0.526	0.507	4.99
48) T	Methyl methacr...	0.267	0.316	0.313	0.353	0.343	0.354	0.324	10.19
49) T	1,4-Dioxane	0.003	0.005	0.005	0.006	0.005	0.005	0.005	19.47
50) S	Toluene-d8		1.229	1.075	1.070	1.161	1.189	1.145	6.12
51) T	4-Methyl-2-Pen...	0.338	0.417	0.427	0.462	0.434	0.442	0.420	10.25
52) CM	Toluene	0.674	0.829	0.810	0.892	0.846	0.881	0.822	9.57#
53) T	t-1,3-Dichloro...	0.398	0.498	0.483	0.526	0.529	0.555	0.498	11.10
54) T	cis-1,3-Dichlo...	0.457	0.528	0.526	0.585	0.555	0.582	0.539	8.82
55) T	1,1,2-Trichlor...	0.297	0.328	0.298	0.320	0.306	0.314	0.310	4.02

Method Path : Z:\voasrv\HPCHEM1\MSVOA_N\methods\

Method File : 82N122724W.M

56)	T	Ethyl methacry...	0.324	0.391	0.455	0.508	0.503	0.532	0.452	17.74
57)	T	1,3-Dichloropr...	0.467	0.553	0.537	0.590	0.555	0.567	0.545	7.67
58)	T	2-Chloroethyl ...	0.145	0.218	0.232	0.226	0.242	0.249	0.219	17.21
59)	T	2-Hexanone	0.226	0.281	0.294	0.327	0.308	0.313	0.291	12.24
60)	T	Dibromochlorom...	0.269	0.349	0.346	0.378	0.371	0.385	0.350	12.13
61)	T	1,2-Dibromoethane	0.263	0.305	0.309	0.335	0.313	0.318	0.307	7.82
62)	S	4-Bromofluorob...	0.383	0.347	0.362	0.401	0.407	0.380		6.65
-----ISTD-----										
63)	I	Chlorobenzene-d5								
64)	T	Tetrachloroethene	0.270	0.323	0.331	0.344	0.312	0.321	0.317	8.07
65)	PM	Chlorobenzene	1.124	1.067	1.031	1.131	1.049	1.080	1.080	3.72
66)	T	1,1,1,2-Tetrac...	0.349	0.348	0.351	0.391	0.363	0.374	0.363	4.71
67)	C	Ethyl Benzene	1.546	1.729	1.715	1.944	1.877	1.970	1.797	9.06#
68)	T	m/p-Xylenes	0.473	0.644	0.634	0.740	0.709	0.746	0.658	15.51
69)	T	o-Xylene	0.504	0.602	0.611	0.703	0.689	0.708	0.636	12.49
70)	T	Styrene	0.730	0.964	0.964	1.172	1.147	1.209	1.031	17.58
71)	P	Bromoform	0.207	0.243	0.247	0.275	0.263	0.273	0.251	10.05
-----ISTD-----										
72)	I	1,4-Dichlorobenzen...								
73)	T	Isopropylbenzene	2.674	3.684	3.596	3.983	3.731	3.905	3.596	13.17
74)	T	N-amyl acetate	1.279	1.432	1.485	1.733	1.621	1.685	1.539	11.17
75)	P	1,1,2,2-Tetrac...	1.201	1.176	1.149	1.196	1.064	1.085	1.145	5.09
76)	T	1,2,3-Trichlor...	1.109	0.938	0.957	0.944	0.829	0.825	0.934	11.12
77)	T	Bromobenzene	0.946	0.886	0.890	0.919	0.838	0.865	0.891	4.28
78)	T	n-propylbenzene	3.243	3.958	4.259	4.661	4.393	4.634	4.191	12.70
79)	T	2-Chlorotoluene	2.156	2.724	2.688	2.903	2.636	2.719	2.638	9.57
80)	T	1,3,5-Trimethy...	2.072	2.880	2.958	3.284	3.066	3.190	2.908	14.97
81)	T	trans-1,4-Dich...	0.341	0.375	0.416	0.403	0.414	0.390		8.16
82)	T	4-Chlorotoluene	2.310	2.665	2.661	2.919	2.642	2.743	2.657	7.47
83)	T	tert-Butylbenzene	1.985	2.504	2.508	2.774	2.597	2.748	2.519	11.35
84)	T	1,2,4-Trimethy...	2.047	2.720	2.895	3.346	3.120	3.248	2.896	16.41
85)	T	sec-Butylbenzene	2.492	3.443	3.538	3.851	3.740	3.917	3.497	14.99
86)	T	p-Isopropyltol...	1.790	2.616	2.851	3.231	3.081	3.324	2.816	20.05
87)	T	1,3-Dichlorobe...	1.523	1.655	1.555	1.732	1.580	1.645	1.615	4.74
88)	T	1,4-Dichlorobe...	1.732	1.666	1.602	1.753	1.568	1.633	1.659	4.39
89)	T	n-Butylbenzene	2.134	2.364	2.417	2.818	2.723	2.908	2.561	11.76
90)	T	Hexachloroethane	0.509	0.560	0.551	0.606	0.596	0.618	0.573	7.12
91)	T	1,2-Dichlorobe...	1.382	1.543	1.592	1.672	1.513	1.529	1.538	6.22
92)	T	1,2-Dibromo-3-...	0.189	0.212	0.200	0.224	0.202	0.195	0.204	6.07
93)	T	1,2,4-Trichlor...	0.731	0.752	0.732	0.825	0.761	0.805	0.768	5.07
94)	T	Hexachlorobuta...	0.417	0.412	0.375	0.400	0.340	0.345	0.381	8.89
95)	T	Naphthalene	2.951	2.381	2.441	2.756	2.528	2.564	2.603	8.20
96)	T	1,2,3-Trichlor...	0.728	0.787	0.768	0.811	0.746	0.763	0.767	3.82

(#) = Out of Range

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN122724\
 Data File : VN085321.D
 Acq On : 27 Dec 2024 10:26
 Operator : JC\MD
 Sample : VSTDICC100
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC100

Quant Time: Dec 28 01:10:14 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N122724W.M
 Quant Title : SW846 8260
 QLast Update : Sat Dec 28 01:10:11 2024
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : John Carlone 12/30/2024
 Supervised By : Mahesh Dadoda 12/30/2024

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

Internal Standards						
1) Pentafluorobenzene	8.218	168	156166	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.094	114	274313	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.859	117	239296	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	110806	50.000	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.571	65	223438	100.315	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	= 200.620%#	
35) Dibromofluoromethane	8.159	113	173043	101.117	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 202.240%#	
50) Toluene-d8	10.565	98	652176	103.853	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	= 207.700%#	
62) 4-Bromofluorobenzene	12.847	95	223549	107.189	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	= 214.380%#	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.124	85	211530	100.154	ug/l	98
3) Chloromethane	2.359	50	210461	88.661	ug/l	95
4) Vinyl Chloride	2.512	62	239141	95.258	ug/l	97
5) Bromomethane	2.948	94	150300	91.543	ug/l	95
6) Chloroethane	3.118	64	153144	96.191	ug/l	98
7) Trichlorofluoromethane	3.500	101	319456	96.803	ug/l	98
8) Diethyl Ether	3.953	74	113060	103.470	ug/l	98
9) 1,1,2-Trichlorotrifluo...	4.371	101	182437	97.166	ug/l	98
10) Methyl Iodide	4.589	142	221288	101.834	ug/l	96
11) Tert butyl alcohol	5.512	59	125490	449.925	ug/l	98
12) 1,1-Dichloroethene	4.342	96	171462	98.802	ug/l	99
13) Acrolein	4.171	56	204340	469.915	ug/l	97
14) Allyl chloride	5.018	41	270904	97.537	ug/l	99
15) Acrylonitrile	5.712	53	425762	485.009	ug/l	99
16) Acetone	4.418	43	340922	465.473	ug/l	98
17) Carbon Disulfide	4.712	76	484441	91.760	ug/l	100
18) Methyl Acetate	5.018	43	215207	95.974	ug/l	100
19) Methyl tert-butyl Ether	5.789	73	586031	103.894	ug/l	99
20) Methylene Chloride	5.271	84	189358	96.119	ug/l	98
21) trans-1,2-Dichloroethene	5.783	96	177119	97.703	ug/l	99
22) Diisopropyl ether	6.665	45	623798	104.224	ug/l	99
23) Vinyl Acetate	6.594	43	2319612	539.108	ug/l	98
24) 1,1-Dichloroethane	6.559	63	357527	99.165	ug/l	99
25) 2-Butanone	7.471	43	557035	490.229	ug/l	99
26) 2,2-Dichloropropane	7.488	77	318743	100.909	ug/l	99
27) cis-1,2-Dichloroethene	7.483	96	218963	102.909	ug/l	97
28) Bromochloromethane	7.806	49	174969	104.430	ug/l #	98
29) Tetrahydrofuran	7.830	42	374323	511.419	ug/l	99
30) Chloroform	7.959	83	360866	97.837	ug/l	98
31) Cyclohexane	8.253	56	307196	93.310	ug/l	97
32) 1,1,1-Trichloroethane	8.165	97	325760	98.891	ug/l	97
36) 1,1-Dichloropropene	8.365	75	263076	104.994	ug/l	99
37) Ethyl Acetate	7.553	43	239186	96.040	ug/l	99
38) Carbon Tetrachloride	8.359	117	282846	103.563	ug/l	97
39) Methylcyclohexane	9.594	83	296114	113.903	ug/l	98
40) Benzene	8.600	78	774590	102.248	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN122724\
 Data File : VN085321.D
 Acq On : 27 Dec 2024 10:26
 Operator : JC\MD
 Sample : VSTDICC100
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC100

Quant Time: Dec 28 01:10:14 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N122724W.M
 Quant Title : SW846 8260
 QLast Update : Sat Dec 28 01:10:11 2024
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : John Carlone 12/30/2024
 Supervised By : Mahesh Dadoda 12/30/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.771	41	137768	108.014	ug/l	99
42) 1,2-Dichloroethane	8.665	62	268298	98.781	ug/l	99
43) Isopropyl Acetate	8.682	43	426602	104.030	ug/l	100
44) Trichloroethene	9.347	130	179832	100.266	ug/l	97
45) 1,2-Dichloropropane	9.618	63	193438	100.585	ug/l	99
46) Dibromomethane	9.700	93	135558	101.355	ug/l	99
47) Bromodichloromethane	9.882	83	288439	103.761	ug/l	98
48) Methyl methacrylate	9.677	41	194022	109.038	ug/l	98
49) 1,4-Dioxane	9.688	88	56273	2096.049	ug/l #	85
51) 4-Methyl-2-Pentanone	10.441	43	1211949	525.905	ug/l	99
52) Toluene	10.624	92	483534	107.195	ug/l	100
53) t-1,3-Dichloropropene	10.829	75	304711	111.463	ug/l	98
54) cis-1,3-Dichloropropene	10.306	75	319172	107.971	ug/l	99
55) 1,1,2-Trichloroethane	11.012	97	172065	101.034	ug/l	96
56) Ethyl methacrylate	10.871	69	292009	117.730	ug/l	99
57) 1,3-Dichloropropane	11.159	76	311119	104.087	ug/l	100
58) 2-Chloroethyl Vinyl ether	10.153	63	682916	569.087	ug/l	99
59) 2-Hexanone	11.188	43	858322	536.829	ug/l	99
60) Dibromochloromethane	11.353	129	211482	110.251	ug/l	98
61) 1,2-Dibromoethane	11.465	107	174500	103.568	ug/l	99
64) Tetrachloroethene	11.100	164	153652	101.335	ug/l	97
65) Chlorobenzene	11.888	112	516861	99.951	ug/l	97
66) 1,1,1,2-Tetrachloroethane	11.959	131	179160	103.229	ug/l	99
67) Ethyl Benzene	11.959	91	942995	109.652	ug/l	100
68) m/p-Xylenes	12.065	106	713871	226.828	ug/l	100
69) o-Xylene	12.394	106	338950	111.332	ug/l	98
70) Styrene	12.406	104	578718	117.286	ug/l	99
71) Bromoform	12.570	173	130453	108.523	ug/l #	100
73) Isopropylbenzene	12.688	105	865504	108.621	ug/l	100
74) N-amyl acetate	12.488	43	373392	109.477	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.935	83	240405	94.731	ug/l	98
76) 1,2,3-Trichloropropane	12.988	75	182933m	85.937	ug/l	
77) Bromobenzene	12.976	156	191802	97.157	ug/l	99
78) n-propylbenzene	13.029	91	1026870	110.557	ug/l	100
79) 2-Chlorotoluene	13.123	91	602668	103.099	ug/l	99
80) 1,3,5-Trimethylbenzene	13.170	105	706917	109.682	ug/l	99
81) trans-1,4-Dichloro-2-b...	12.735	75	91679	106.602	ug/l	98
82) 4-Chlorotoluene	13.217	91	607903	103.257	ug/l	100
83) tert-Butylbenzene	13.435	119	608882	109.059	ug/l	98
84) 1,2,4-Trimethylbenzene	13.476	105	719806	112.160	ug/l	98
85) sec-Butylbenzene	13.612	105	867992	112.004	ug/l	100
86) p-Isopropyltoluene	13.723	119	736735	100.116	ug/l	100
87) 1,3-Dichlorobenzene	13.729	146	364480	101.845	ug/l	100
88) 1,4-Dichlorobenzene	13.806	146	361871	98.438	ug/l	100
89) n-Butylbenzene	14.053	91	644347	113.544	ug/l	99
90) Hexachloroethane	14.329	117	136982	107.835	ug/l	100
91) 1,2-Dichlorobenzene	14.100	146	338794	99.377	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	14.717	75	43244	95.745	ug/l	96
93) 1,2,4-Trichlorobenzene	15.388	180	178476	104.895	ug/l	100
94) Hexachlorobutadiene	15.494	225	76348	90.312	ug/l	99
95) Naphthalene	15.635	128	568171	98.477	ug/l	100
96) 1,2,3-Trichlorobenzene	15.835	180	168986	99.403	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN122724\
Data File : VN085321.D
Acq On : 27 Dec 2024 10:26
Operator : JC\MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/30/2024
Supervised By :Mahesh Dadoda 12/30/2024

Quant Time: Dec 28 01:10:14 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N122724W.M
Quant Title : SW846 8260
QLast Update : Sat Dec 28 01:10:11 2024
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

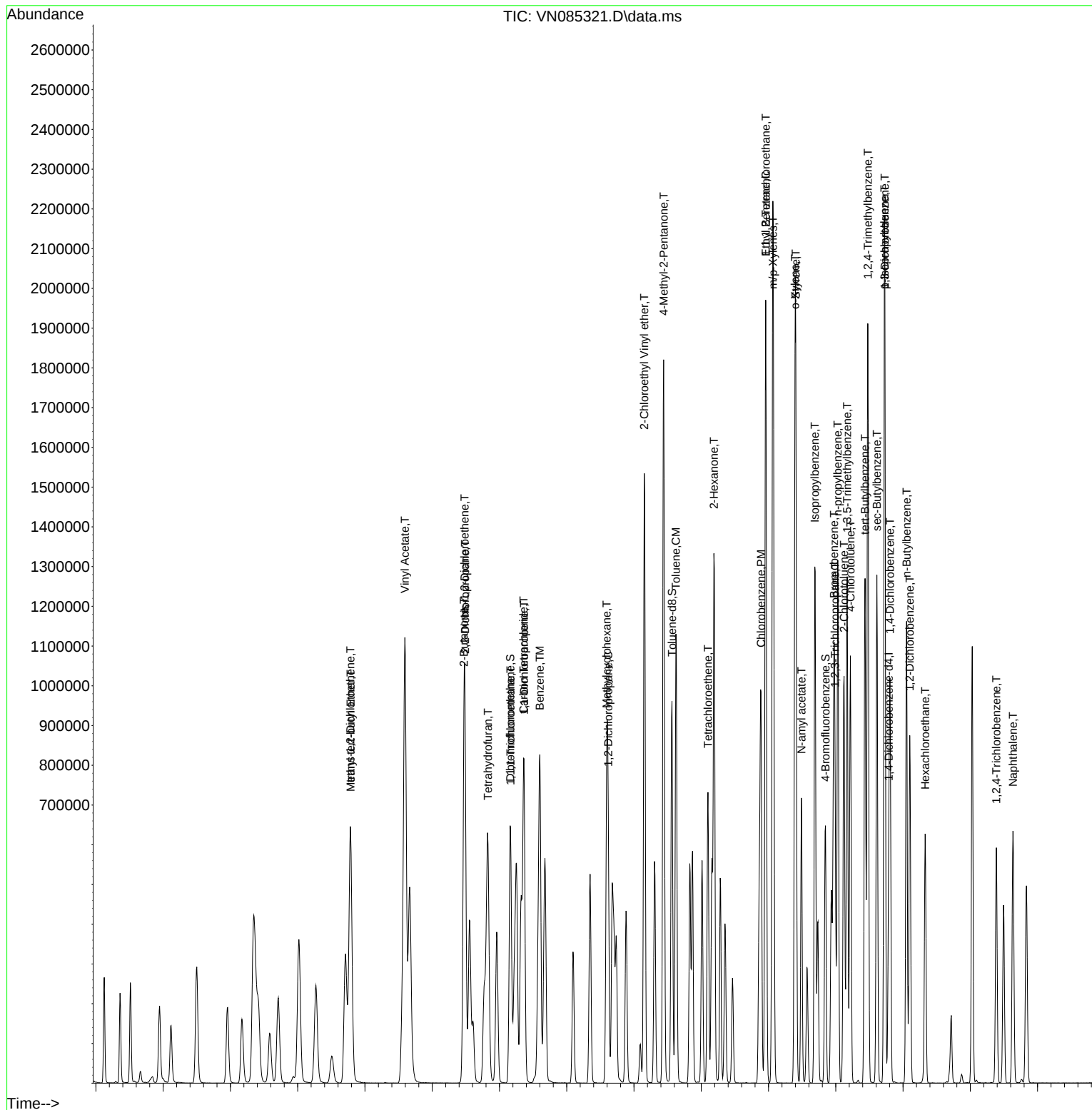
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN122724\
Data File : VN085321.D
Acq On : 27 Dec 2024 10:26
Operator : JC\MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

Reviewed By :John Carlone 12/30/2024
Supervised By :Mahesh Dadoda 12/30/2024

Quant Time: Dec 28 01:10:14 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N122724W.M
Quant Title : SW846 8260
QLast Update : Sat Dec 28 01:10:11 2024
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN122724\
 Data File : VN085322.D
 Acq On : 27 Dec 2024 10:50
 Operator : JC\MD
 Sample : VSTDICCC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICCC050

Quant Time: Dec 28 01:13:57 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N122724W.M
 Quant Title : SW846 8260
 QLast Update : Sat Dec 28 01:10:11 2024
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :John
 Carlone

12/30/2024
 Supervised By :Mahesh
 Dadoda

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

Internal Standards						
1) Pentafluorobenzene	8.218	168	155532	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.094	114	278404	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.859	117	240680	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	113462	50.000	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.577	65	111594	50.305	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	100.620%
35) Dibromofluoromethane	8.159	113	88275	50.825	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	101.660%
50) Toluene-d8	10.559	98	323100	50.695	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	101.380%
62) 4-Bromofluorobenzene	12.847	95	111548	52.700	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	105.400%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.124	85	108746	51.698	ug/l	100
3) Chloromethane	2.359	50	106659	45.115	ug/l	100
4) Vinyl Chloride	2.512	62	117884	47.149	ug/l	100
5) Bromomethane	2.959	94	74886	45.796	ug/l	100
6) Chloroethane	3.124	64	74955	47.272	ug/l	100
7) Trichlorofluoromethane	3.500	101	158878	48.340	ug/l	100
8) Diethyl Ether	3.959	74	55553	51.048	ug/l	100
9) 1,1,2-Trichlorotrifluo...	4.365	101	89878	48.064	ug/l	100
10) Methyl Iodide	4.594	142	111290	51.423	ug/l	100
11) Tert butyl alcohol	5.512	59	66517	239.459	ug/l	100
12) 1,1-Dichloroethene	4.342	96	83691	48.422	ug/l	100
13) Acrolein	4.177	56	101450	234.253	ug/l	100
14) Allyl chloride	5.018	41	133004	48.082	ug/l	100
15) Acrylonitrile	5.712	53	213836	244.585	ug/l	100
16) Acetone	4.418	43	173280	237.550	ug/l	100
17) Carbon Disulfide	4.712	76	238824	45.421	ug/l	100
18) Methyl Acetate	5.018	43	108199	48.449	ug/l	100
19) Methyl tert-butyl Ether	5.788	73	290643	51.737	ug/l	100
20) Methylene Chloride	5.271	84	95357	48.601	ug/l	100
21) trans-1,2-Dichloroethene	5.783	96	87901	48.686	ug/l	100
22) Diisopropyl ether	6.665	45	302742	50.788	ug/l	100
23) Vinyl Acetate	6.594	43	1110592	259.168	ug/l	100
24) 1,1-Dichloroethane	6.565	63	173999	48.458	ug/l	100
25) 2-Butanone	7.477	43	285403	252.198	ug/l	100
26) 2,2-Dichloropropane	7.482	77	160118	50.897	ug/l	100
27) cis-1,2-Dichloroethene	7.482	96	107476	50.718	ug/l	100
28) Bromochloromethane	7.806	49	82793	49.616	ug/l #	100
29) Tetrahydrofuran	7.830	42	185555	254.548	ug/l	100
30) Chloroform	7.959	83	176294	47.991	ug/l	100
31) Cyclohexane	8.253	56	152319	46.455	ug/l	100
32) 1,1,1-Trichloroethane	8.165	97	158921	48.441	ug/l	100
36) 1,1-Dichloropropene	8.365	75	128454	50.513	ug/l	100
37) Ethyl Acetate	7.553	43	115871	45.842	ug/l	100
38) Carbon Tetrachloride	8.359	117	139705	50.401	ug/l	100
39) Methylcyclohexane	9.594	83	140293	53.172	ug/l	100
40) Benzene	8.600	78	383405	49.867	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN122724\
 Data File : VN085322.D
 Acq On : 27 Dec 2024 10:50
 Operator : JC\MD
 Sample : VSTDICCC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICCC050

Quant Time: Dec 28 01:13:57 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N122724W.M
 Quant Title : SW846 8260
 QLast Update : Sat Dec 28 01:10:11 2024
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :John
 Carlone

12/30/2024
 Supervised By :Mahesh
 Dadoda

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.777	41	65714	50.764	ug/l	100
42) 1,2-Dichloroethane	8.665	62	131673	47.766	ug/l	100
43) Isopropyl Acetate	8.682	43	207309	49.811	ug/l	100
44) Trichloroethene	9.347	130	86607	47.578	ug/l	100
45) 1,2-Dichloropropane	9.612	63	94480	48.407	ug/l	100
46) Dibromomethane	9.706	93	66895	49.281	ug/l	100
47) Bromodichloromethane	9.882	83	140475	49.791	ug/l	100
48) Methyl methacrylate	9.676	41	95506	52.885	ug/l	100
49) 1,4-Dioxane	9.688	88	29967	1099.805	ug/l	100
51) 4-Methyl-2-Pentanone	10.441	43	604417	258.422	ug/l	100
52) Toluene	10.623	92	235625	51.469	ug/l	100
53) t-1,3-Dichloropropene	10.829	75	147289	53.087	ug/l	100
54) cis-1,3-Dichloropropene	10.306	75	154618	51.536	ug/l	100
55) 1,1,2-Trichloroethane	11.012	97	85262	49.329	ug/l	100
56) Ethyl methacrylate	10.871	69	139960	55.599	ug/l	100
57) 1,3-Dichloropropane	11.159	76	154391	50.893	ug/l	100
58) 2-Chloroethyl Vinyl ether	10.153	63	336991	276.695	ug/l	100
59) 2-Hexanone	11.194	43	428174	263.862	ug/l	100
60) Dibromochloromethane	11.353	129	103179	52.999	ug/l	100
61) 1,2-Dibromoethane	11.465	107	87157	50.969	ug/l	100
64) Tetrachloroethene	11.100	164	75140	49.270	ug/l	100
65) Chlorobenzene	11.888	112	252514	48.550	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.959	131	87333	50.030	ug/l	100
67) Ethyl Benzene	11.959	91	451752	52.228	ug/l	100
68) m/p-Xylenes	12.065	106	341420	107.860	ug/l	100
69) o-Xylene	12.394	106	165724	54.121	ug/l	100
70) Styrene	12.406	104	276012	55.616	ug/l	100
71) Bromoform	12.570	173	63268	52.330	ug/l #	100
73) Isopropylbenzene	12.688	105	423362	51.888	ug/l	100
74) N-ethyl acetate	12.488	43	183943	52.669	ug/l	100
75) 1,1,2,2-Tetrachloroethane	12.935	83	120681	46.441	ug/l	100
76) 1,2,3-Trichloropropane	12.988	75	94097m	43.170	ug/l	
77) Bromobenzene	12.976	156	95126	47.058	ug/l	100
78) n-propylbenzene	13.029	91	498392	52.403	ug/l	100
79) 2-Chlorotoluene	13.123	91	299107	49.970	ug/l	100
80) 1,3,5-Trimethylbenzene	13.170	105	347857	52.709	ug/l	100
81) trans-1,4-Dichloro-2-b...	12.729	75	45749m	51.950	ug/l	
82) 4-Chlorotoluene	13.217	91	299712	49.717	ug/l	100
83) tert-Butylbenzene	13.435	119	294653	51.541	ug/l	100
84) 1,2,4-Trimethylbenzene	13.476	105	354037	53.875	ug/l	100
85) sec-Butylbenzene	13.611	105	424353	53.476	ug/l	100
86) p-Isopropyltoluene	13.723	119	349527	49.276	ug/l	100
87) 1,3-Dichlorobenzene	13.729	146	179301	48.928	ug/l	100
88) 1,4-Dichlorobenzene	13.806	146	177873	47.253	ug/l	100
89) n-Butylbenzene	14.053	91	309010	53.178	ug/l	100
90) Hexachloroethane	14.329	117	67607	51.976	ug/l	100
91) 1,2-Dichlorobenzene	14.100	146	171657	49.173	ug/l	100
92) 1,2-Dibromo-3-Chloropr...	14.711	75	22952	49.627	ug/l	100
93) 1,2,4-Trichlorobenzene	15.388	180	86363	49.570	ug/l	100
94) Hexachlorobutadiene	15.494	225	38529	44.509	ug/l	100
95) Naphthalene	15.635	128	286887	48.560	ug/l	100
96) 1,2,3-Trichlorobenzene	15.835	180	84633	48.618	ug/l	100

12/30/2024

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN122724\
Data File : VN085322.D
Acq On : 27 Dec 2024 10:50
Operator : JC\MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 28 01:13:57 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N122724W.M
Quant Title : SW846 8260
QLast Update : Sat Dec 28 01:10:11 2024
Response via : Initial Calibration

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Manual Integrations**APPROVED**

Reviewed By :John
Carlone

12/30/2024

Supervised By :Mahesh
Dadoda

12/30/2024

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\VN122724\  
Data File : VN085322.D  
Acq On    : 27 Dec 2024  10:50  
Operator  : JC\MD  
Sample    : VSTDICCC050  
Misc      : 5.0mL/MSVOA_N/WATER  
ALS Vial  : 3   Sample Multiplier: 1
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Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

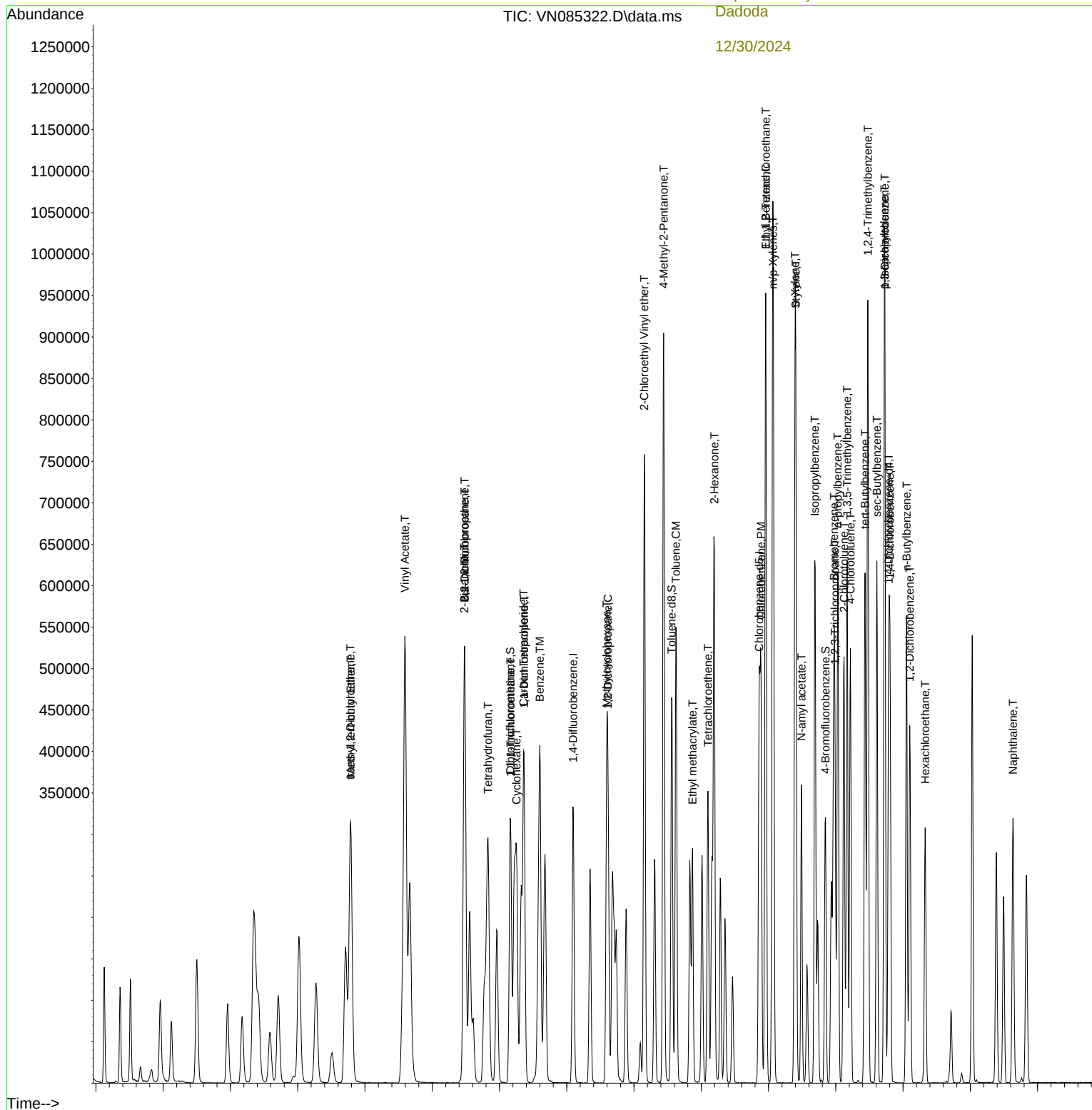
Manual Integrations APPROVED

Reviewed By :John
Carlone

12/30/2024
Supervised By :Mahesh
Dadoda

12/30/2024

Quant Time: Dec 28 01:13:57 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N122724W.M
Quant Title : SW846 8260
QLast Update : Sat Dec 28 01:10:11 2024
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN122724\
 Data File : VN085323.D
 Acq On : 27 Dec 2024 11:13
 Operator : JC\MD
 Sample : VSTDICC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC020

Manual Integrations
 APPROVED

Reviewed By : John Carlone 12/30/2024
 Supervised By : Mahesh Dadoda 12/30/2024

Quant Time: Dec 28 01:13:22 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N122724W.M
 Quant Title : SW846 8260
 QLast Update : Sat Dec 28 01:10:11 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.218	168	146535	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	261564	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.859	117	224166	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	100909	50.000	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.571	65	40091	19.182	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	38.360%#
35) Dibromofluoromethane	8.159	113	30693	18.810	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	37.620%#
50) Toluene-d8	10.565	98	111985	18.702	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	37.400%#
62) 4-Bromofluorobenzene	12.847	95	37918	19.067	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	38.140%#

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.124	85	38592	19.473	ug/l	98
3) Chloromethane	2.359	50	43217	19.403	ug/l	97
4) Vinyl Chloride	2.512	62	48485	20.583	ug/l	93
5) Bromomethane	2.953	94	31343	20.345	ug/l	99
6) Chloroethane	3.112	64	30158	20.188	ug/l	97
7) Trichlorofluoromethane	3.500	101	63811	20.607	ug/l	96
8) Diethyl Ether	3.959	74	21865	21.325	ug/l	97
9) 1,1,2-Trichlorotrifluo...	4.371	101	35482	20.140	ug/l	97
10) Methyl Iodide	4.589	142	42319	20.755	ug/l	91
11) Tert butyl alcohol	5.512	59	27123	103.637	ug/l	100
12) 1,1-Dichloroethene	4.342	96	34208	21.007	ug/l	96
13) Acrolein	4.177	56	40956	100.376	ug/l	98
14) Allyl chloride	5.018	41	53265	20.438	ug/l	100
15) Acrylonitrile	5.718	53	87221	105.889	ug/l	98
16) Acetone	4.424	43	73157	106.449	ug/l	97
17) Carbon Disulfide	4.712	76	101412	20.471	ug/l	98
18) Methyl Acetate	5.024	43	43744	20.790	ug/l	99
19) Methyl tert-butyl Ether	5.794	73	113371	21.420	ug/l	97
20) Methylene Chloride	5.277	84	38285	20.711	ug/l	99
21) trans-1,2-Dichloroethene	5.783	96	36209	21.286	ug/l	91
22) Diisopropyl ether	6.665	45	120874	21.523	ug/l	99
23) Vinyl Acetate	6.600	43	461817m	114.387	ug/l	
24) 1,1-Dichloroethane	6.565	63	70880	20.952	ug/l	97
25) 2-Butanone	7.477	43	114225	107.133	ug/l	96
26) 2,2-Dichloropropane	7.483	77	63819	21.532	ug/l	99
27) cis-1,2-Dichloroethene	7.477	96	42857	21.466	ug/l	97
28) Bromochloromethane	7.806	49	31632	20.120	ug/l #	99
29) Tetrahydrofuran	7.835	42	74837	108.966	ug/l	99
30) Chloroform	7.965	83	72892	21.061	ug/l	95
31) Cyclohexane	8.253	56	61911	20.041	ug/l	95
32) 1,1,1-Trichloroethane	8.165	97	64420	20.841	ug/l	92
36) 1,1-Dichloropropene	8.365	75	49840	20.861	ug/l	98
37) Ethyl Acetate	7.553	43	49720	20.937	ug/l	99
38) Carbon Tetrachloride	8.359	117	55847	21.445	ug/l	94
39) Methylcyclohexane	9.600	83	53626	21.633	ug/l	100
40) Benzene	8.606	78	154946	21.450	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN122724\
 Data File : VN085323.D
 Acq On : 27 Dec 2024 11:13
 Operator : JC\MD
 Sample : VSTDICC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC020

Quant Time: Dec 28 01:13:22 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N122724W.M
 Quant Title : SW846 8260
 QLast Update : Sat Dec 28 01:10:11 2024
 Response via : Initial Calibration

Manual Integrations
 APPROVED

Reviewed By :John Carlone 12/30/2024
 Supervised By :Mahesh Dadoda 12/30/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.771	41	25636	21.079	ug/l	98
42) 1,2-Dichloroethane	8.665	62	57096	22.046	ug/l	98
43) Isopropyl Acetate	8.682	43	82570	21.117	ug/l	99
44) Trichloroethene	9.347	130	36092	21.104	ug/l	96
45) 1,2-Dichloropropane	9.618	63	39400	21.486	ug/l	93
46) Dibromomethane	9.706	93	26782	21.000	ug/l	98
47) Bromodichloromethane	9.882	83	55383	20.894	ug/l	93
48) Methyl methacrylate	9.677	41	36893	21.744	ug/l	98
49) 1,4-Dioxane	9.694	88	11804	461.104	ug/l	98
51) 4-Methyl-2-Pentanone	10.441	43	241756	110.019	ug/l	100
52) Toluene	10.624	92	93343	21.702	ug/l	100
53) t-1,3-Dichloropropene	10.829	75	55084	21.132	ug/l	94
54) cis-1,3-Dichloropropene	10.306	75	61217	21.718	ug/l	97
55) 1,1,2-Trichloroethane	11.012	97	33459	20.604	ug/l	96
56) Ethyl methacrylate	10.871	69	53114	22.458	ug/l	98
57) 1,3-Dichloropropane	11.159	76	61684	21.643	ug/l	99
58) 2-Chloroethyl Vinyl ether	10.153	63	118474	103.539	ug/l	100
59) 2-Hexanone	11.194	43	170875	112.081	ug/l	100
60) Dibromochloromethane	11.359	129	39538	21.617	ug/l	98
61) 1,2-Dibromoethane	11.465	107	35034	21.807	ug/l	98
64) Tetrachloroethene	11.100	164	30849	21.718	ug/l	96
65) Chlorobenzene	11.888	112	101427	20.938	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.959	131	35030	21.546	ug/l	97
67) Ethyl Benzene	11.959	91	174337	21.640	ug/l	100
68) m/p-Xylenes	12.065	106	132648	44.993	ug/l	100
69) o-Xylene	12.394	106	63003	22.091	ug/l	95
70) Styrene	12.406	104	105054	22.728	ug/l	99
71) Bromoform	12.570	173	24644	21.885	ug/l #	98
73) Isopropylbenzene	12.694	105	160752	22.153	ug/l	98
74) N-amyl acetate	12.488	43	69938	22.517	ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.935	83	48294	20.897	ug/l	99
76) 1,2,3-Trichloropropane	12.988	75	38100m	19.654	ug/l	
77) Bromobenzene	12.976	156	37077	20.623	ug/l	98
78) n-propylbenzene	13.029	91	188143	22.243	ug/l	99
79) 2-Chlorotoluene	13.123	91	117169	22.010	ug/l	99
80) 1,3,5-Trimethylbenzene	13.170	105	132546	22.582	ug/l	99
81) trans-1,4-Dichloro-2-b...	12.735	75	16798	21.448	ug/l	99
82) 4-Chlorotoluene	13.217	91	117825	21.976	ug/l	97
83) tert-Butylbenzene	13.435	119	111983	22.025	ug/l	99
84) 1,2,4-Trimethylbenzene	13.476	105	135046	23.107	ug/l	99
85) sec-Butylbenzene	13.612	105	155451	22.026	ug/l	98
86) p-Isopropyltoluene	13.723	119	130425	21.487	ug/l	99
87) 1,3-Dichlorobenzene	13.729	146	69890	21.444	ug/l	98
88) 1,4-Dichlorobenzene	13.806	146	70759	21.136	ug/l	99
89) n-Butylbenzene	14.053	91	113729	22.006	ug/l	99
90) Hexachloroethane	14.329	117	24441	21.128	ug/l	95
91) 1,2-Dichlorobenzene	14.100	146	67480	21.735	ug/l	98
92) 1,2-Dibromo-3-Chloropr...	14.712	75	9030	21.954	ug/l	96
93) 1,2,4-Trichlorobenzene	15.388	180	33300	21.491	ug/l	99
94) Hexachlorobutadiene	15.500	225	16152	20.980	ug/l	97
95) Naphthalene	15.635	128	111233	21.170	ug/l	98
96) 1,2,3-Trichlorobenzene	15.835	180	32729	21.140	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN122724\
Data File : VN085323.D
Acq On : 27 Dec 2024 11:13
Operator : JC\MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/30/2024
Supervised By :Mahesh Dadoda 12/30/2024

Quant Time: Dec 28 01:13:22 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N122724W.M
Quant Title : SW846 8260
QLast Update : Sat Dec 28 01:10:11 2024
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

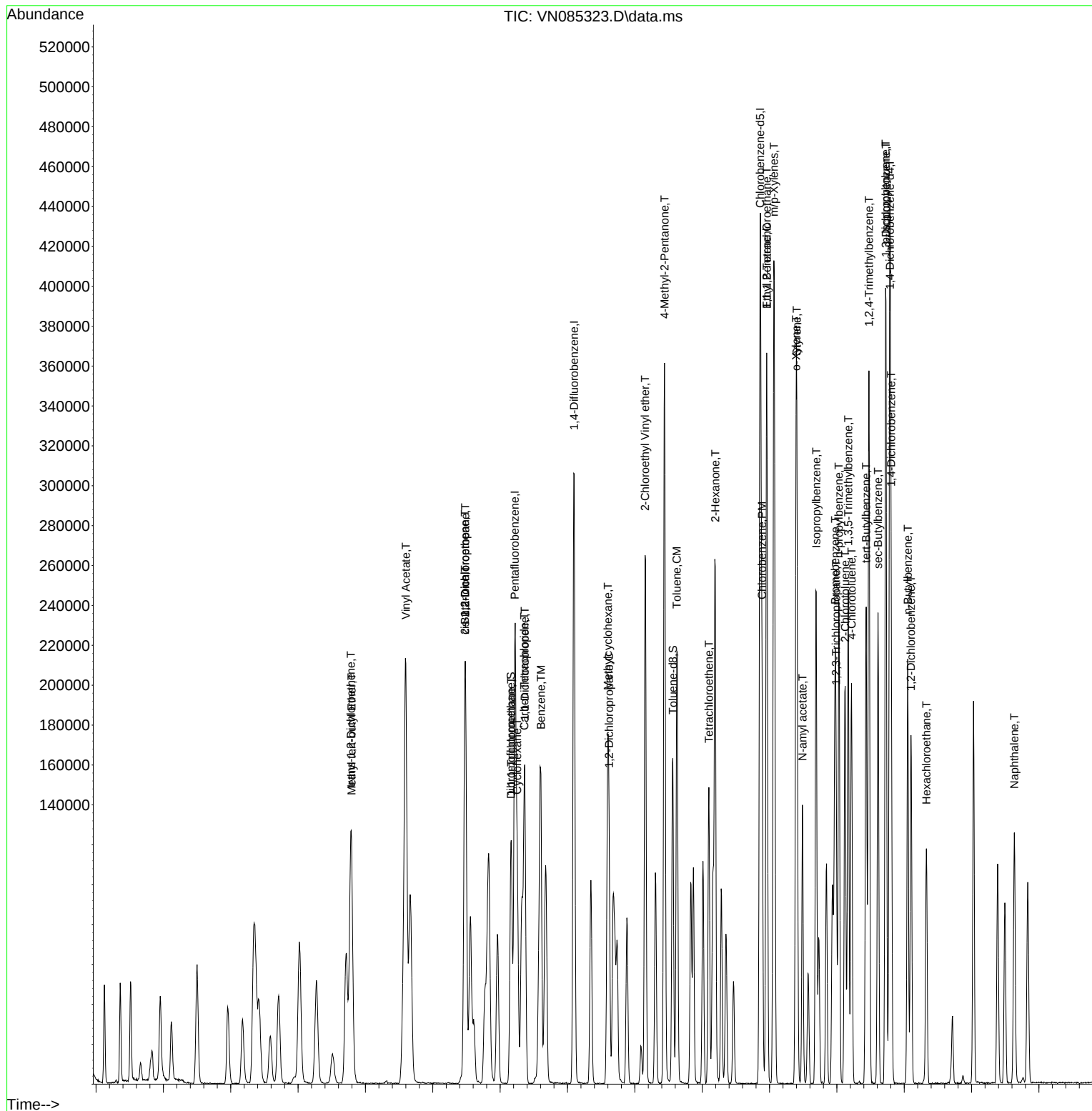
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN122724\
Data File : VN085323.D
Acq On : 27 Dec 2024 11:13
Operator : JC\MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

Reviewed By : John Carlone 12/30/2024
Supervised By : Mahesh Dadoda 12/30/2024

Quant Time: Dec 28 01:13:22 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N122724W.M
Quant Title : SW846 8260
QLast Update : Sat Dec 28 01:10:11 2024
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN122724\
 Data File : VN085324.D
 Acq On : 27 Dec 2024 11:37
 Operator : JC\MD
 Sample : VSTDICC010
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC010

Quant Time: Dec 28 01:12:12 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N122724W.M
 Quant Title : SW846 8260
 QLast Update : Sat Dec 28 01:10:11 2024
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : John Carlone 12/30/2024
 Supervised By : Mahesh Dadoda 12/30/2024

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

Internal Standards						
1) Pentafluorobenzene	8.218	168	139803	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	249332	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	215410	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	91601	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.571	65	19346	9.702	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	19.400%#		
35) Dibromofluoromethane	8.159	113	15144	9.736	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	19.480%#		
50) Toluene-d8	10.565	98	53607	9.392	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	18.780%#		
62) 4-Bromofluorobenzene	12.841	95	17328	9.141	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	18.280%#		
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	2.124	85	19552	10.341	ug/l	97
3) Chloromethane	2.359	50	20670	9.727	ug/l #	88
4) Vinyl Chloride	2.518	62	21838	9.717	ug/l	95
5) Bromomethane	2.965	94	15112	10.281	ug/l	84
6) Chloroethane	3.130	64	14417	10.115	ug/l	97
7) Trichlorofluoromethane	3.495	101	30029	10.165	ug/l	90
8) Diethyl Ether	3.965	74	10096	10.321	ug/l	97
9) 1,1,2-Trichlorotrifluo...	4.377	101	17168	10.214	ug/l	99
10) Methyl Iodide	4.589	142	18635	9.579	ug/l #	90
11) Tert butyl alcohol	5.506	59	12805	51.284	ug/l	96
12) 1,1-Dichloroethene	4.342	96	15070	9.700	ug/l	90
13) Acrolein	4.183	56	19853	50.999	ug/l	98
14) Allyl chloride	5.030	41	25157	10.118	ug/l	95
15) Acrylonitrile	5.718	53	39955	50.842	ug/l	97
16) Acetone	4.424	43	32542	49.631	ug/l	92
17) Carbon Disulfide	4.712	76	44938	9.508	ug/l	98
18) Methyl Acetate	5.018	43	20355	10.140	ug/l	99
19) Methyl tert-butyl Ether	5.783	73	50046	9.911	ug/l	94
20) Methylene Chloride	5.277	84	17446	9.892	ug/l	93
21) trans-1,2-Dichloroethene	5.783	96	15908	9.802	ug/l	96
22) Diisopropyl ether	6.665	45	53406	9.967	ug/l	99
23) Vinyl Acetate	6.600	43	189768m	49.267	ug/l	
24) 1,1-Dichloroethane	6.565	63	31897	9.883	ug/l	99
25) 2-Butanone	7.482	43	50628	49.771	ug/l	100
26) 2,2-Dichloropropane	7.488	77	27809	9.834	ug/l	99
27) cis-1,2-Dichloroethene	7.488	96	18276	9.595	ug/l	91
28) Bromochloromethane	7.812	49	14957	9.972	ug/l #	99
29) Tetrahydrofuran	7.835	42	33255	50.752	ug/l	98
30) Chloroform	7.959	83	32453	9.828	ug/l	99
31) Cyclohexane	8.253	56	29511	10.013	ug/l	93
32) 1,1,1-Trichloroethane	8.171	97	29271	9.926	ug/l	93
36) 1,1-Dichloropropene	8.365	75	22034	9.675	ug/l	99
37) Ethyl Acetate	7.559	43	23298	10.292	ug/l	97
38) Carbon Tetrachloride	8.359	117	24491	9.866	ug/l	99
39) Methylcyclohexane	9.600	83	22448	9.500	ug/l	98
40) Benzene	8.600	78	67603	9.818	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN122724\
 Data File : VN085324.D
 Acq On : 27 Dec 2024 11:37
 Operator : JC\MD
 Sample : VSTDICC010
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC010

Quant Time: Dec 28 01:12:12 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N122724W.M
 Quant Title : SW846 8260
 QLast Update : Sat Dec 28 01:10:11 2024
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :John Carlone 12/30/2024
 Supervised By :Mahesh Dadoda 12/30/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.777	41	12091	10.429	ug/l	95
42) 1,2-Dichloroethane	8.671	62	24635	9.979	ug/l	100
43) Isopropyl Acetate	8.682	43	35967	9.650	ug/l	98
44) Trichloroethene	9.347	130	15441	9.472	ug/l	99
45) 1,2-Dichloropropane	9.618	63	17511	10.018	ug/l	99
46) Dibromomethane	9.706	93	12378	10.182	ug/l	98
47) Bromodichloromethane	9.882	83	25444	10.070	ug/l	94
48) Methyl methacrylate	9.676	41	15633	9.666	ug/l	97
49) 1,4-Dioxane	9.688	88	5366	219.898	ug/l	92
51) 4-Methyl-2-Pentanone	10.441	43	106569	50.877	ug/l	100
52) Toluene	10.629	92	40396	9.853	ug/l	97
53) t-1,3-Dichloropropene	10.829	75	24100	9.699	ug/l	97
54) cis-1,3-Dichloropropene	10.306	75	26207	9.754	ug/l	97
55) 1,1,2-Trichloroethane	11.012	97	14839	9.586	ug/l	90
56) Ethyl methacrylate	10.871	69	22666	10.054	ug/l	99
57) 1,3-Dichloropropane	11.159	76	26800	9.864	ug/l	97
58) 2-Chloroethyl Vinyl ether	10.159	63	57793	52.985	ug/l	100
59) 2-Hexanone	11.188	43	73420	50.521	ug/l	100
60) Dibromochloromethane	11.353	129	17232	9.884	ug/l	99
61) 1,2-Dibromoethane	11.465	107	15412	10.064	ug/l	98
64) Tetrachloroethene	11.094	164	14273	10.457	ug/l	97
65) Chlorobenzene	11.888	112	44413	9.541	ug/l	95
66) 1,1,1,2-Tetrachloroethane	11.953	131	15107	9.670	ug/l	98
67) Ethyl Benzene	11.959	91	73883	9.544	ug/l	97
68) m/p-Xylenes	12.065	106	54643	19.288	ug/l	98
69) o-Xylene	12.400	106	26323	9.605	ug/l	95
70) Styrene	12.406	104	41517	9.347	ug/l	97
71) Bromoform	12.570	173	10628	9.822	ug/l #	96
73) Isopropylbenzene	12.694	105	65872	10.000	ug/l	98
74) N-amyl acetate	12.488	43	27209	9.650	ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.935	83	21045	10.031	ug/l	99
76) 1,2,3-Trichloropropane	12.994	75	17525m	9.959	ug/l	
77) Bromobenzene	12.976	156	16311	9.995	ug/l	97
78) n-propylbenzene	13.029	91	78022	10.161	ug/l	98
79) 2-Chlorotoluene	13.123	91	49236	10.189	ug/l	100
80) 1,3,5-Trimethylbenzene	13.170	105	54193	10.171	ug/l	97
81) trans-1,4-Dichloro-2-b...	12.729	75	6879m	9.676	ug/l	
82) 4-Chlorotoluene	13.217	91	48752	10.017	ug/l	100
83) tert-Butylbenzene	13.435	119	45946	9.955	ug/l	96
84) 1,2,4-Trimethylbenzene	13.476	105	53034	9.996	ug/l	97
85) sec-Butylbenzene	13.612	105	64824	10.118	ug/l	100
86) p-Isopropyltoluene	13.723	119	52240	9.726	ug/l	98
87) 1,3-Dichlorobenzene	13.729	146	28481	9.627	ug/l	97
88) 1,4-Dichlorobenzene	13.806	146	29343	9.656	ug/l	95
89) n-Butylbenzene	14.053	91	44284	9.440	ug/l	99
90) Hexachloroethane	14.329	117	10091	9.609	ug/l	94
91) 1,2-Dichlorobenzene	14.106	146	29163	10.348	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	14.711	75	3666	9.818	ug/l	97
93) 1,2,4-Trichlorobenzene	15.388	180	13416	9.538	ug/l	97
94) Hexachlorobutadiene	15.500	225	6870	9.830	ug/l	98
95) Naphthalene	15.641	128	44712	9.374	ug/l	98
96) 1,2,3-Trichlorobenzene	15.841	180	14070	10.012	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN122724\
Data File : VN085324.D
Acq On : 27 Dec 2024 11:37
Operator : JC\MD
Sample : VSTDICC010
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/30/2024
Supervised By :Mahesh Dadoda 12/30/2024

Quant Time: Dec 28 01:12:12 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N122724W.M
Quant Title : SW846 8260
QLast Update : Sat Dec 28 01:10:11 2024
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

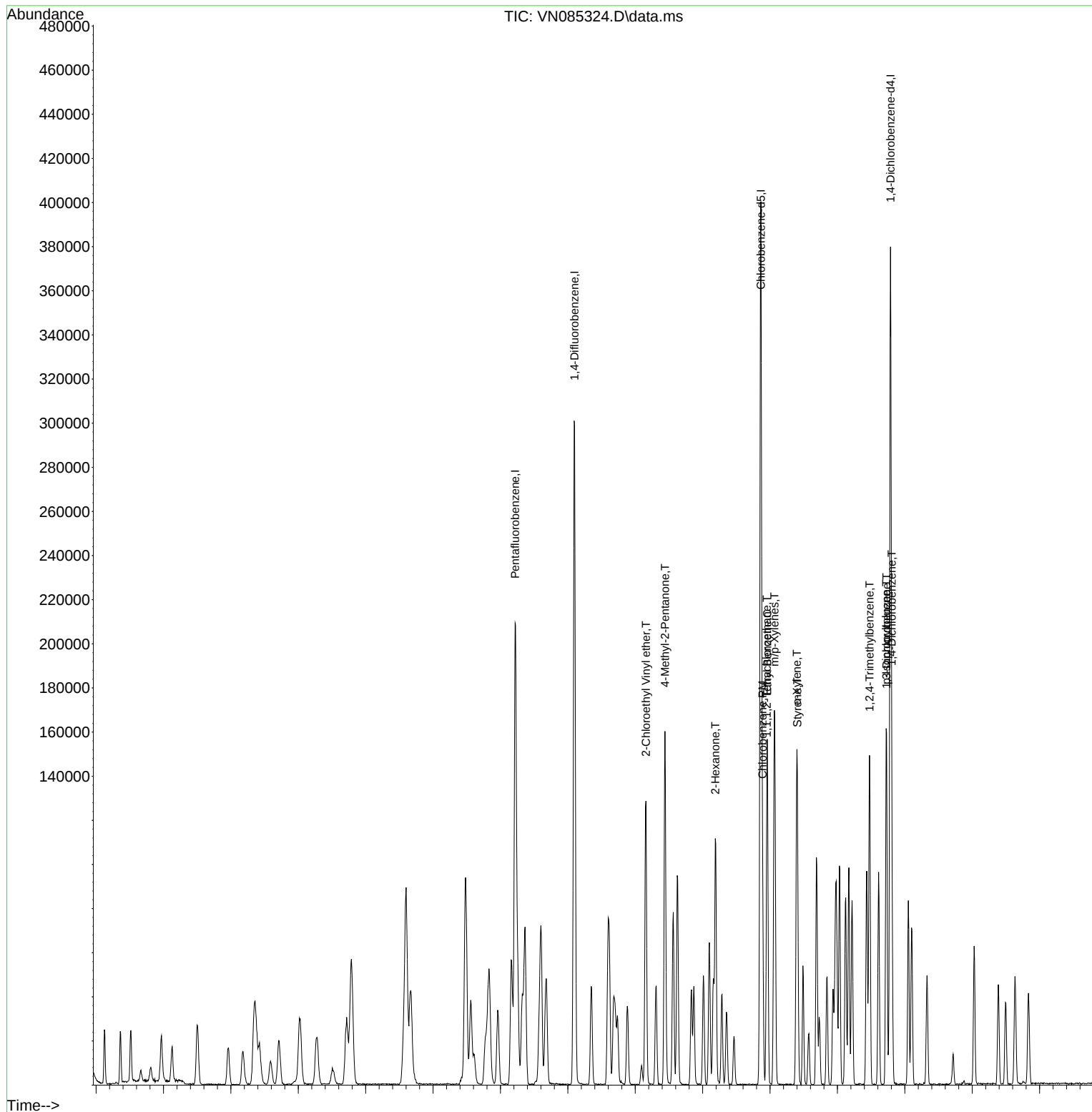
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN122724\
Data File : VN085324.D
Acq On : 27 Dec 2024 11:37
Operator : JC\MD
Sample : VSTDIC010
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC010

Manual Integrations
APPROVED

Reviewed By : John Carlone 12/30/2024
Supervised By : Mahesh Dadoda 12/30/2024

Quant Time: Dec 28 01:12:12 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N122724W.M
Quant Title : SW846 8260
QLast Update : Sat Dec 28 01:10:11 2024
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN122724\
 Data File : VN085325.D
 Acq On : 27 Dec 2024 12:01
 Operator : JC\MD
 Sample : VSTDICC005
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC005

Quant Time: Dec 28 01:11:41 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N122724W.M
 Quant Title : SW846 8260
 QLast Update : Sat Dec 28 01:10:11 2024
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :John Carlone 12/30/2024
 Supervised By :Mahesh Dadoda 12/30/2024

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

Internal Standards						
1) Pentafluorobenzene	8.224	168	147779	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	263044	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	226122	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	96471	50.000	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.577	65	11186	5.307	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	10.620%#
35) Dibromofluoromethane	8.159	113	8683	5.291	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	10.580%#
50) Toluene-d8	10.565	98	32316	5.367	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	10.740%#
62) 4-Bromofluorobenzene	12.841	95	10066	5.033	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	10.060%#

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.124	85	9959	4.983	ug/l	87
3) Chloromethane	2.359	50	10992	4.893	ug/l	94
4) Vinyl Chloride	2.512	62	12286	5.172	ug/l	98
5) Bromomethane	2.954	94	8726	5.616	ug/l	96
6) Chloroethane	3.118	64	7888	5.236	ug/l	100
7) Trichlorofluoromethane	3.501	101	15924	5.099	ug/l	97
8) Diethyl Ether	3.953	74	5358	5.182	ug/l	93
9) 1,1,2-Trichlorotrifluo...	4.365	101	9363	5.270	ug/l #	48
10) Methyl Iodide	4.589	142	9845	4.788	ug/l #	93
11) Tert butyl alcohol	5.518	59	7128	27.007	ug/l #	84
12) 1,1-Dichloroethene	4.336	96	8833	5.379	ug/l	79
13) Acrolein	4.177	56	11310	27.485	ug/l	100
14) Allyl chloride	5.018	41	13153	5.004	ug/l	93
15) Acrylonitrile	5.724	53	20549	24.737	ug/l	98
16) Acetone	4.424	43	17276	24.926	ug/l	94
17) Carbon Disulfide	4.706	76	25152	5.035	ug/l	98
18) Methyl Acetate	5.030	43	10628	5.009	ug/l	98
19) Methyl tert-butyl Ether	5.795	73	26395	4.945	ug/l	97
20) Methylene Chloride	5.277	84	9500	5.096	ug/l	86
21) trans-1,2-Dichloroethene	5.777	96	8724	5.085	ug/l	87
22) Diisopropyl ether	6.665	45	29256	5.165	ug/l #	92
23) Vinyl Acetate	6.600	43	99465m	24.429	ug/l	
24) 1,1-Dichloroethane	6.571	63	17288	5.067	ug/l	94
25) 2-Butanone	7.483	43	27176	25.274	ug/l	99
26) 2,2-Dichloropropane	7.489	77	15617	5.225	ug/l	97
27) cis-1,2-Dichloroethene	7.483	96	9778	4.856	ug/l	92
28) Bromochloromethane	7.806	49	8779	5.537	ug/l #	98
29) Tetrahydrofuran	7.836	42	17009	24.557	ug/l	97
30) Chloroform	7.959	83	17135	4.909	ug/l	97
31) Cyclohexane	8.259	56	17671	5.672	ug/l	97
32) 1,1,1-Trichloroethane	8.165	97	15694	5.035	ug/l #	87
36) 1,1-Dichloropropene	8.365	75	12017	5.001	ug/l	98
37) Ethyl Acetate	7.559	43	11648	4.877	ug/l #	96
38) Carbon Tetrachloride	8.359	117	12952	4.945	ug/l	91
39) Methylcyclohexane	9.600	83	11831	4.746	ug/l #	92
40) Benzene	8.600	78	36472	5.021	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN122724\
 Data File : VN085325.D
 Acq On : 27 Dec 2024 12:01
 Operator : JC\MD
 Sample : VSTDICC005
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC005

Manual Integrations
 APPROVED

Reviewed By : John Carlone 12/30/2024
 Supervised By : Mahesh Dadoda 12/30/2024

Quant Time: Dec 28 01:11:41 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N122724W.M
 Quant Title : SW846 8260
 QLast Update : Sat Dec 28 01:10:11 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.777	41	6242	5.104	ug/l	99
42) 1,2-Dichloroethane	8.665	62	12978	4.983	ug/l	97
43) Isopropyl Acetate	8.688	43	18930	4.814	ug/l	99
44) Trichloroethene	9.347	130	8533	4.961	ug/l	93
45) 1,2-Dichloropropane	9.618	63	9143	4.958	ug/l	99
46) Dibromomethane	9.706	93	6573	5.125	ug/l	98
47) Bromodichloromethane	9.888	83	13450	5.046	ug/l	99
48) Methyl methacrylate	9.682	41	8311	4.871	ug/l	98
49) 1,4-Dioxane	9.694	88	2520	97.886	ug/l #	87
51) 4-Methyl-2-Pentanone	10.441	43	54831	24.812	ug/l	99
52) Toluene	10.624	92	21799	5.040	ug/l	97
53) t-1,3-Dichloropropene	10.835	75	13088	4.993	ug/l	100
54) cis-1,3-Dichloropropene	10.306	75	13900	4.904	ug/l	99
55) 1,1,2-Trichloroethane	11.012	97	8634	5.287	ug/l	91
56) Ethyl methacrylate	10.871	69	10291	4.327	ug/l	98
57) 1,3-Dichloropropane	11.159	76	14548	5.076	ug/l	96
58) 2-Chloroethyl Vinyl ether	10.153	63	28647	24.895	ug/l	98
59) 2-Hexanone	11.188	43	36958	24.105	ug/l	99
60) Dibromochloromethane	11.359	129	9180	4.991	ug/l	96
61) 1,2-Dibromoethane	11.465	107	8013	4.960	ug/l	99
64) Tetrachloroethene	11.106	164	7300	5.095	ug/l	84
65) Chlorobenzene	11.888	112	24138	4.940	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.959	131	7880	4.805	ug/l	94
67) Ethyl Benzene	11.959	91	39102	4.812	ug/l	95
68) m/p-Xylenes	12.065	106	29104	9.786	ug/l	96
69) o-Xylene	12.394	106	13620	4.734	ug/l	98
70) Styrene	12.406	104	21804	4.676	ug/l	99
71) Bromoform	12.571	173	5494	4.837	ug/l #	99
73) Isopropylbenzene	12.694	105	35544	5.124	ug/l	97
74) N-amyl acetate	12.494	43	13811	4.651	ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.935	83	11349	5.137	ug/l	99
76) 1,2,3-Trichloropropane	12.988	75	9049m	4.883	ug/l	
77) Bromobenzene	12.976	156	8544	4.971	ug/l	98
78) n-propylbenzene	13.029	91	38185	4.722	ug/l	99
79) 2-Chlorotoluene	13.123	91	26279	5.164	ug/l	100
80) 1,3,5-Trimethylbenzene	13.171	105	27787	4.952	ug/l	98
81) trans-1,4-Dichloro-2-b...	12.729	75	3288	4.391	ug/l	95
82) 4-Chlorotoluene	13.218	91	25709	5.016	ug/l	97
83) tert-Butylbenzene	13.435	119	24152	4.969	ug/l	98
84) 1,2,4-Trimethylbenzene	13.482	105	26238	4.696	ug/l	97
85) sec-Butylbenzene	13.612	105	33215	4.923	ug/l	97
86) p-Isopropyltoluene	13.723	119	25238	4.594	ug/l	98
87) 1,3-Dichlorobenzene	13.729	146	15966	5.124	ug/l	99
88) 1,4-Dichlorobenzene	13.806	146	16072	5.022	ug/l	91
89) n-Butylbenzene	14.053	91	22807	4.616	ug/l	99
90) Hexachloroethane	14.329	117	5398	4.881	ug/l	95
91) 1,2-Dichlorobenzene	14.100	146	14881	5.014	ug/l	97
92) 1,2-Dibromo-3-Chloropr...	14.712	75	2047	5.206	ug/l	94
93) 1,2,4-Trichlorobenzene	15.382	180	7250	4.894	ug/l	96
94) Hexachlorobutadiene	15.500	225	3976	5.402	ug/l	96
95) Naphthalene	15.635	128	22967	4.572	ug/l	99
96) 1,2,3-Trichlorobenzene	15.835	180	7594	5.131	ug/l	95

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN122724\
Data File : VN085325.D
Acq On : 27 Dec 2024 12:01
Operator : JC\MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/30/2024
Supervised By :Mahesh Dadoda 12/30/2024

Quant Time: Dec 28 01:11:41 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N122724W.M
Quant Title : SW846 8260
QLast Update : Sat Dec 28 01:10:11 2024
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

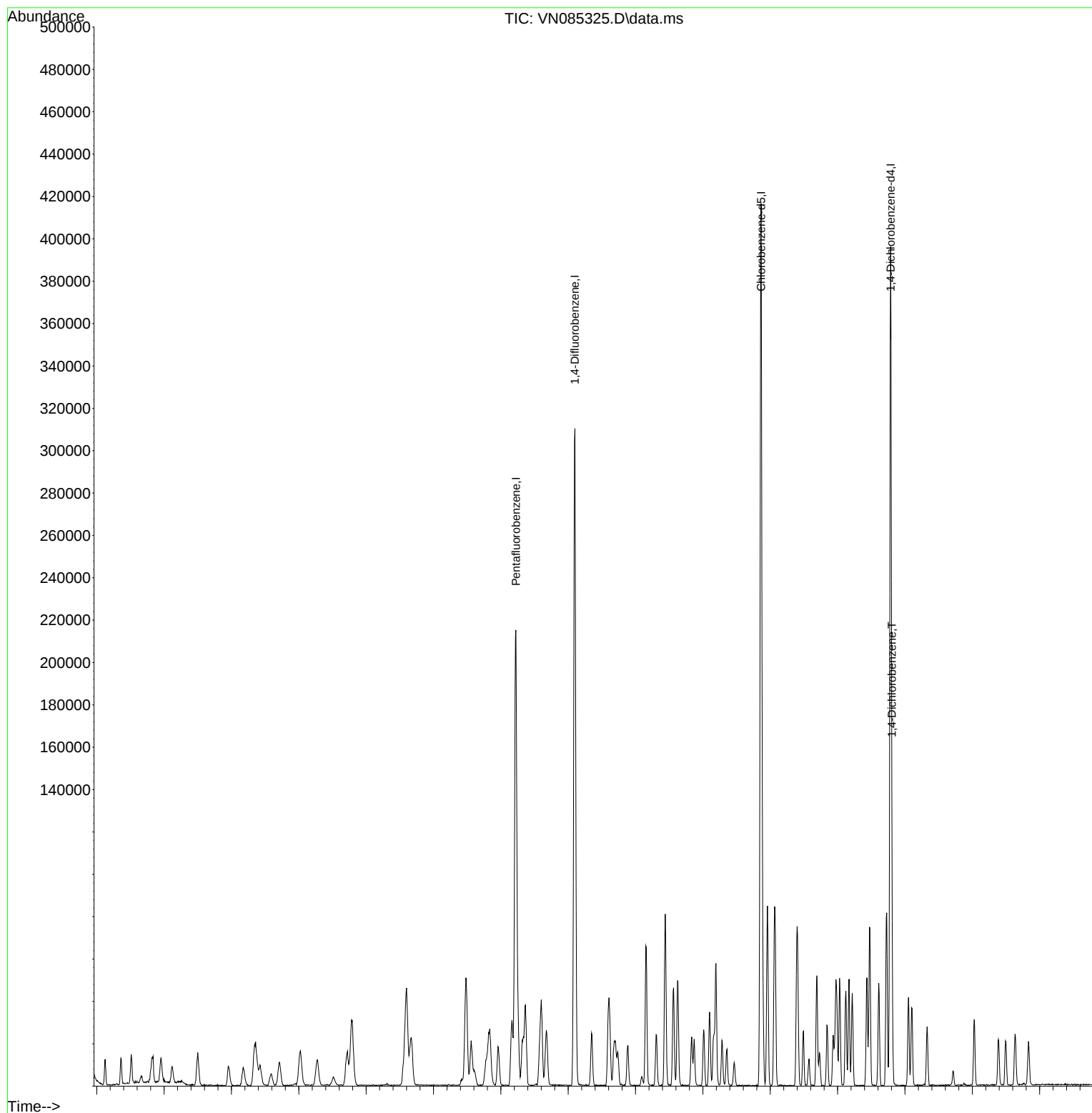
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN122724\
Data File : VN085325.D
Acq On : 27 Dec 2024 12:01
Operator : JC\MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

Reviewed By : John Carlone 12/30/2024
Supervised By : Mahesh Dadoda 12/30/2024

Quant Time: Dec 28 01:11:41 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N122724W.M
Quant Title : SW846 8260
QLast Update : Sat Dec 28 01:10:11 2024
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN122724\
 Data File : VN085326.D
 Acq On : 27 Dec 2024 12:48
 Operator : JC\MD
 Sample : VSTDICC001
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC001

Manual Integrations
 APPROVED

Reviewed By : John Carlone 12/30/2024
 Supervised By : Mahesh Dadoda 12/30/2024

Quant Time: Dec 28 01:10:49 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N122724W.M
 Quant Title : SW846 8260
 QLast Update : Sat Dec 28 01:10:11 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.224	168	133455	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	246776	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	207418	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	81571	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	2.130	85	1733	0.960	ug/l #	70
3) Chloromethane	2.359	50	2616	1.290	ug/l	92
4) Vinyl Chloride	2.512	62	2294	1.069	ug/l	93
6) Chloroethane	3.130	64	1394	1.025	ug/l	91
7) Trichlorofluoromethane	3.500	101	2816	0.999	ug/l	93
8) Diethyl Ether	3.971	74	756	0.810	ug/l	69
9) 1,1,2-Trichlorotrifluo...	4.383	101	1581m	0.985	ug/l	
12) 1,1-Dichloroethene	4.341	96	1405	0.947	ug/l #	78
14) Allyl chloride	5.030	41	2441	1.028	ug/l #	68
15) Acrylonitrile	5.712	53	3700m	4.932	ug/l	
16) Acetone	4.430	43	3332	5.323	ug/l #	58
17) Carbon Disulfide	4.718	76	5381	1.193	ug/l	96
18) Methyl Acetate	5.030	43	1947	1.016	ug/l #	59
19) Methyl tert-butyl Ether	5.800	73	4219	0.875	ug/l #	88
20) Methylene Chloride	5.271	84	1722	1.023	ug/l #	81
21) trans-1,2-Dichloroethene	5.794	96	1530	0.988	ug/l #	85
22) Diisopropyl ether	6.677	45	4276	0.836	ug/l #	93
23) Vinyl Acetate	6.600	43	15012	4.083	ug/l	100
24) 1,1-Dichloroethane	6.559	63	3050	0.990	ug/l #	82
25) 2-Butanone	7.482	43	4530	4.665	ug/l	97
26) 2,2-Dichloropropane	7.488	77	2343	0.868	ug/l #	67
27) cis-1,2-Dichloroethene	7.482	96	1732	0.953	ug/l	99
28) Bromochloromethane	7.800	49	1221m	0.853	ug/l	
29) Tetrahydrofuran	7.835	42	2727	4.360	ug/l	99
30) Chloroform	7.953	83	3291	1.044	ug/l #	74
32) 1,1,1-Trichloroethane	8.165	97	2817	1.001	ug/l #	50
36) 1,1-Dichloropropene	8.371	75	2094	0.929	ug/l #	74
37) Ethyl Acetate	7.559	43	2400	1.071	ug/l #	70
38) Carbon Tetrachloride	8.359	117	2232	0.908	ug/l #	93
39) Methylcyclohexane	9.600	83	1910	0.817	ug/l	90
40) Benzene	8.606	78	6282	0.922	ug/l	99
41) Methacrylonitrile	7.788	41	903m	0.787	ug/l	
42) 1,2-Dichloroethane	8.665	62	2346	0.960	ug/l #	76
43) Isopropyl Acetate	8.694	43	3615	0.980	ug/l #	84
44) Trichloroethene	9.347	130	1696	1.051	ug/l	89
45) 1,2-Dichloropropane	9.623	63	1658	0.958	ug/l #	81

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN122724\
 Data File : VN085326.D
 Acq On : 27 Dec 2024 12:48
 Operator : JC\MD
 Sample : VSTDICC001
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC001

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/30/2024

Supervised By :Mahesh Dadoda 12/30/2024

Quant Time: Dec 28 01:10:49 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N122724W.M

Quant Title : SW846 8260

QLast Update : Sat Dec 28 01:10:11 2024

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) Dibromomethane	9.712	93	1092	0.908	ug/l	96
47) Bromodichloromethane	9.882	83	2265	0.906	ug/l #	87
48) Methyl methacrylate	9.682	41	1319	0.824	ug/l #	88
49) 1,4-Dioxane	9.688	88	300m	12.421	ug/l	
51) 4-Methyl-2-Pentanone	10.441	43	8337	4.021	ug/l	100
52) Toluene	10.629	92	3329	0.820	ug/l	95
53) t-1,3-Dichloropropene	10.829	75	1964	0.799	ug/l	97
54) cis-1,3-Dichloropropene	10.312	75	2254	0.848	ug/l #	82
55) 1,1,2-Trichloroethane	11.012	97	1466	0.957	ug/l	91
56) Ethyl methacrylate	10.876	69	1600	0.717	ug/l	100
57) 1,3-Dichloropropane	11.165	76	2306	0.858	ug/l #	84
58) 2-Chloroethyl Vinyl ether	10.165	63	3585	3.321	ug/l	91
59) 2-Hexanone	11.194	43	5577	3.877	ug/l	89
60) Dibromochloromethane	11.353	129	1329	0.770	ug/l	72
61) 1,2-Dibromoethane	11.470	107	1298	0.856	ug/l	100
64) Tetrachloroethene	11.100	164	1118	0.851	ug/l #	83
65) Chlorobenzene	11.882	112	4664	1.041	ug/l #	81
66) 1,1,1,2-Tetrachloroethane	11.959	131	1447	0.962	ug/l #	59
67) Ethyl Benzene	11.959	91	6412	0.860	ug/l	92
68) m/p-Xylenes	12.064	106	3925	1.439	ug/l	89
69) o-Xylene	12.394	106	2091	0.792	ug/l	94
70) Styrene	12.417	104	3030	0.708	ug/l	97
71) Bromoform	12.570	173	859	0.824	ug/l #	99
73) Isopropylbenzene	12.694	105	4362	0.744	ug/l	95
74) N-amyl acetate	12.494	43	2086	0.831	ug/l #	88
75) 1,1,2,2-Tetrachloroethane	12.941	83	1959	1.049	ug/l #	86
76) 1,2,3-Trichloropropane	12.988	75	1809m	1.154	ug/l	
77) Bromobenzene	12.976	156	1544	1.062	ug/l	95
78) n-propylbenzene	13.029	91	5290	0.774	ug/l	99
79) 2-Chlorotoluene	13.123	91	3518	0.818	ug/l	100
80) 1,3,5-Trimethylbenzene	13.170	105	3380	0.712	ug/l	91
82) 4-Chlorotoluene	13.217	91	3768	0.869	ug/l	92
83) tert-Butylbenzene	13.441	119	3239	0.788	ug/l	96
84) 1,2,4-Trimethylbenzene	13.482	105	3339	0.707	ug/l	99
85) sec-Butylbenzene	13.611	105	4066	0.713	ug/l	98
86) p-Isopropyltoluene	13.723	119	2921	0.798	ug/l	93
87) 1,3-Dichlorobenzene	13.729	146	2485	0.943	ug/l	99
88) 1,4-Dichlorobenzene	13.806	146	2825m	1.044	ug/l	
89) n-Butylbenzene	14.053	91	3482	0.833	ug/l	91
90) Hexachloroethane	14.329	117	831	0.889	ug/l	99
91) 1,2-Dichlorobenzene	14.106	146	2255	0.899	ug/l	96
92) 1,2-Dibromo-3-Chloropr...	14.711	75	309	0.929	ug/l #	73
93) 1,2,4-Trichlorobenzene	15.388	180	1193	0.952	ug/l	91
94) Hexachlorobutadiene	15.500	225	681	1.094	ug/l	75
95) Naphthalene	15.641	128	4815	1.134	ug/l #	93
96) 1,2,3-Trichlorobenzene	15.841	180	1188	0.949	ug/l #	89

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

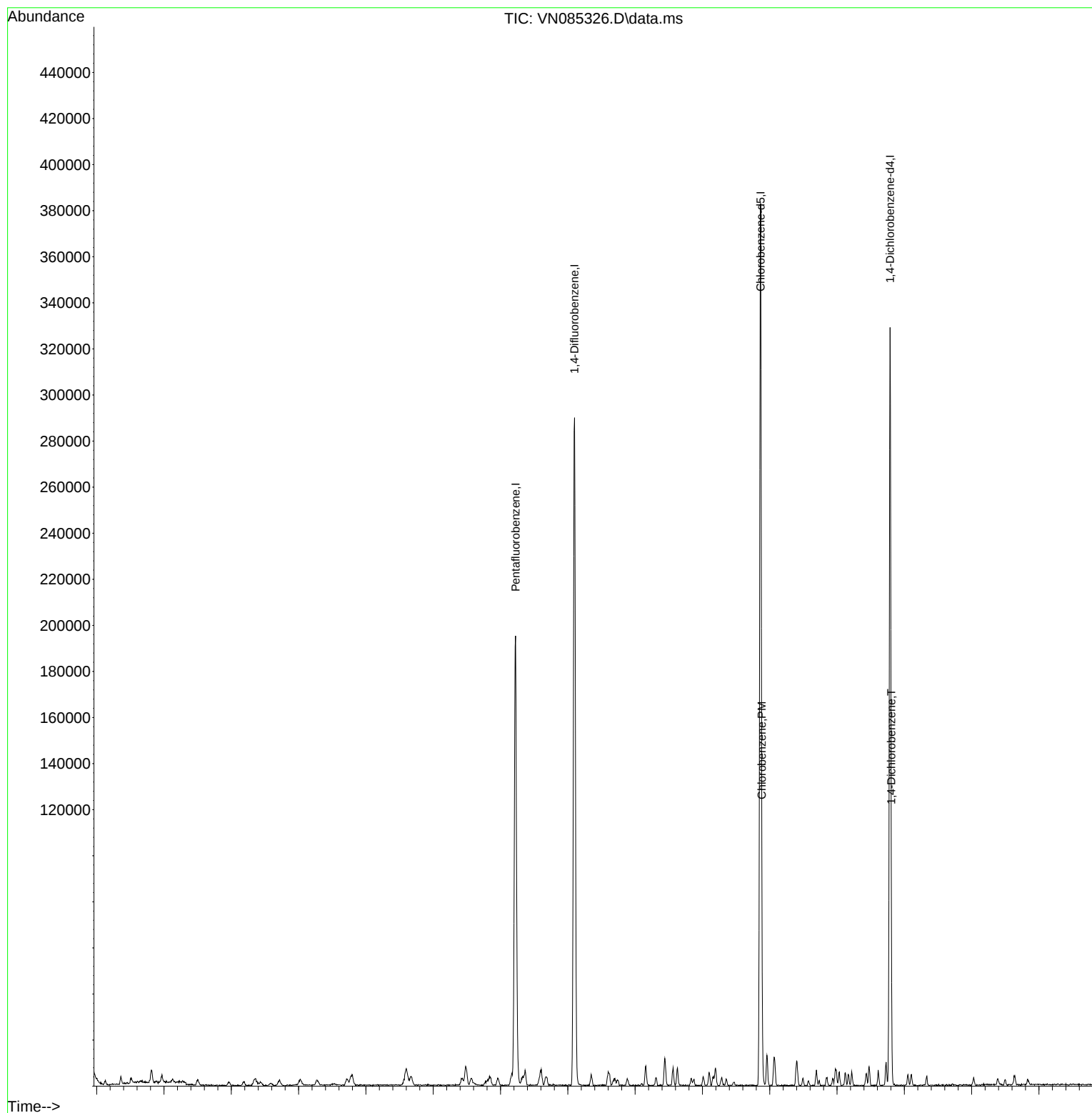
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN122724\
Data File : VN085326.D
Acq On : 27 Dec 2024 12:48
Operator : JC\MD
Sample : VSTDIC001
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC001

Manual Integrations
APPROVED

Reviewed By : John Carlone 12/30/2024
Supervised By : Mahesh Dadoda 12/30/2024

Quant Time: Dec 28 01:10:49 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N122724W.M
Quant Title : SW846 8260
QLast Update : Sat Dec 28 01:10:11 2024
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN122724\
 Data File : VN085328.D
 Acq On : 27 Dec 2024 15:58
 Operator : JC\MD
 Sample : VSTDICV050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 ICVVN122724

Quant Time: Dec 28 01:40:29 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N122724W.M
 Quant Title : SW846 8260
 QLast Update : Sat Dec 28 01:36:16 2024
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :John Carlone 12/30/2024
 Supervised By :Mahesh Dadoda 12/30/2024

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

Internal Standards						
1) Pentafluorobenzene	8.218	168	164136	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.094	114	292504	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	256012	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	120013	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	118332	50.547	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	101.100%
35) Dibromofluoromethane	8.159	113	91966	50.398	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	100.800%
50) Toluene-d8	10.565	98	347336	51.871	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	103.740%
62) 4-Bromofluorobenzene	12.847	95	121466	54.619	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	109.240%

Target Compounds					Qvalue	
2) Dichlorodifluoromethane	2.124	85	115857	52.192	ug/l	99
3) Chloromethane	2.359	50	115249	46.193	ug/l	96
4) Vinyl Chloride	2.512	62	133659	50.656	ug/l	96
5) Bromomethane	2.924	94	83386	48.321	ug/l	96
6) Chloroethane	3.100	64	84777	50.664	ug/l	96
7) Trichlorofluoromethane	3.489	101	174797	50.396	ug/l	99
8) Diethyl Ether	3.953	74	63278	55.098	ug/l	98
9) 1,1,2-Trichlorotrifluo...	4.365	101	100713	51.030	ug/l	98
10) Methyl Iodide	4.583	142	118805	52.018	ug/l	96
11) Tert butyl alcohol	5.524	59	82769	282.346	ug/l	98
12) 1,1-Dichloroethene	4.330	96	93112	51.049	ug/l	99
13) Acrolein	4.171	56	97975	214.370	ug/l	98
14) Allyl chloride	5.018	41	149493	51.210	ug/l	99
15) Acrylonitrile	5.712	53	250489	271.490	ug/l	99
16) Acetone	4.418	43	215365	279.767	ug/l	95
17) Carbon Disulfide	4.706	76	266129	47.961	ug/l	98
18) Methyl Acetate	5.018	43	127062	53.913	ug/l	99
19) Methyl tert-butyl Ether	5.788	73	322145	54.338	ug/l	97
20) Methylene Chloride	5.265	84	106365	51.370	ug/l	98
21) trans-1,2-Dichloroethene	5.777	96	95767	50.262	ug/l	96
22) Diisopropyl ether	6.665	45	341434	54.277	ug/l	99
23) Vinyl Acetate	6.594	43	1266714	278.352	ug/l	99
24) 1,1-Dichloroethane	6.565	63	195446	51.577	ug/l	98
25) 2-Butanone	7.477	43	338384	283.341	ug/l	98
26) 2,2-Dichloropropane	7.482	77	176896	53.283	ug/l	99
27) cis-1,2-Dichloroethene	7.482	96	118182	52.846	ug/l	97
28) Bromochloromethane	7.812	49	90008	51.112	ug/l #	100
29) Tetrahydrofuran	7.835	42	218407	283.909	ug/l	100
30) Chloroform	7.965	83	197287	50.890	ug/l	98
31) Cyclohexane	8.253	56	165938	47.956	ug/l	98
32) 1,1,1-Trichloroethane	8.165	97	174266	50.333	ug/l	99
36) 1,1-Dichloropropene	8.365	75	140127	52.447	ug/l	99
37) Ethyl Acetate	7.559	43	137205	51.666	ug/l	99
38) Carbon Tetrachloride	8.359	117	153395	52.672	ug/l	98
39) Methylcyclohexane	9.600	83	156627	56.501	ug/l	100
40) Benzene	8.600	78	424501	52.550	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN122724\
 Data File : VN085328.D
 Acq On : 27 Dec 2024 15:58
 Operator : JC\MD
 Sample : VSTDICV050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 ICVVN122724

Quant Time: Dec 28 01:40:29 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N122724W.M
 Quant Title : SW846 8260
 QLast Update : Sat Dec 28 01:36:16 2024
 Response via : Initial Calibration

Manual Integrations
 APPROVED

Reviewed By :John Carlone 12/30/2024
 Supervised By :Mahesh Dadoda 12/30/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.771	41	77084	56.677	ug/l	98
42) 1,2-Dichloroethane	8.665	62	149352	51.568	ug/l	100
43) Isopropyl Acetate	8.682	43	249040	56.953	ug/l	98
44) Trichloroethene	9.347	130	97403	50.930	ug/l	93
45) 1,2-Dichloropropane	9.618	63	109589	53.441	ug/l	100
46) Dibromomethane	9.706	93	76287	53.491	ug/l	98
47) Bromodichloromethane	9.882	83	156297	52.728	ug/l #	99
48) Methyl methacrylate	9.676	41	111168	58.590	ug/l	99
49) 1,4-Dioxane	9.694	88	34268	1197.029	ug/l	98
51) 4-Methyl-2-Pentanone	10.441	43	714200	290.641	ug/l	99
52) Toluene	10.623	92	264263	54.941	ug/l	100
53) t-1,3-Dichloropropene	10.835	75	164691	56.497	ug/l	98
54) cis-1,3-Dichloropropene	10.312	75	173493	55.040	ug/l	98
55) 1,1,2-Trichloroethane	11.012	97	96817	53.314	ug/l	98
56) Ethyl methacrylate	10.871	69	163272	61.733	ug/l	98
57) 1,3-Dichloropropane	11.159	76	172176	54.020	ug/l	99
58) 2-Chloroethyl Vinyl ether	10.153	63	359446	280.905	ug/l	99
59) 2-Hexanone	11.194	43	519370	304.633	ug/l	99
60) Dibromochloromethane	11.359	129	116293	56.856	ug/l	99
61) 1,2-Dibromoethane	11.465	107	97817	54.445	ug/l	99
64) Tetrachloroethene	11.100	164	84445	52.056	ug/l	98
65) Chlorobenzene	11.888	112	287764	52.014	ug/l	98
66) 1,1,1,2-Tetrachloroethane	11.959	131	98192	52.882	ug/l	99
67) Ethyl Benzene	11.959	91	512193	55.669	ug/l	99
68) m/p-Xylenes	12.065	106	386429	114.768	ug/l	100
69) o-Xylene	12.394	106	185036	56.809	ug/l	98
70) Styrene	12.406	104	313206	59.331	ug/l	99
71) Bromoform	12.576	173	72309	56.226	ug/l #	99
73) Isopropylbenzene	12.694	105	474369	54.966	ug/l	100
74) N-amyl acetate	12.488	43	211810	57.337	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.935	83	137310	49.956	ug/l	99
76) 1,2,3-Trichloropropane	12.988	75	110703m	49.397	ug/l	
77) Bromobenzene	12.976	156	106098	49.621	ug/l	97
78) n-propylbenzene	13.035	91	562715	55.937	ug/l	99
79) 2-Chlorotoluene	13.123	91	338610	53.482	ug/l	99
80) 1,3,5-Trimethylbenzene	13.170	105	393503	56.370	ug/l	99
81) trans-1,4-Dichloro-2-b...	12.735	75	51732	55.281	ug/l	98
82) 4-Chlorotoluene	13.217	91	341098	53.493	ug/l	99
83) tert-Butylbenzene	13.435	119	332355	54.963	ug/l	98
84) 1,2,4-Trimethylbenzene	13.482	105	399361	57.454	ug/l	99
85) sec-Butylbenzene	13.611	105	477401	56.877	ug/l	98
86) p-Isopropyltoluene	13.723	119	399868	53.045	ug/l	99
87) 1,3-Dichlorobenzene	13.729	146	204501	52.759	ug/l	99
88) 1,4-Dichlorobenzene	13.811	146	201165	50.524	ug/l	100
89) n-Butylbenzene	14.053	91	357404	58.149	ug/l	100
90) Hexachloroethane	14.329	117	74623	54.238	ug/l	98
91) 1,2-Dichlorobenzene	14.106	146	194477	52.669	ug/l	100
92) 1,2-Dibromo-3-Chloropr...	14.717	75	27636	56.494	ug/l	97
93) 1,2,4-Trichlorobenzene	15.388	180	99722	54.113	ug/l	99
94) Hexachlorobutadiene	15.500	225	45915	50.146	ug/l	98
95) Naphthalene	15.635	128	319467	51.123	ug/l	99
96) 1,2,3-Trichlorobenzene	15.835	180	94990	51.589	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN122724\
Data File : VN085328.D
Acq On : 27 Dec 2024 15:58
Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
ICVVN122724

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/30/2024
Supervised By :Mahesh Dadoda 12/30/2024

Quant Time: Dec 28 01:40:29 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N122724W.M
Quant Title : SW846 8260
QLast Update : Sat Dec 28 01:36:16 2024
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

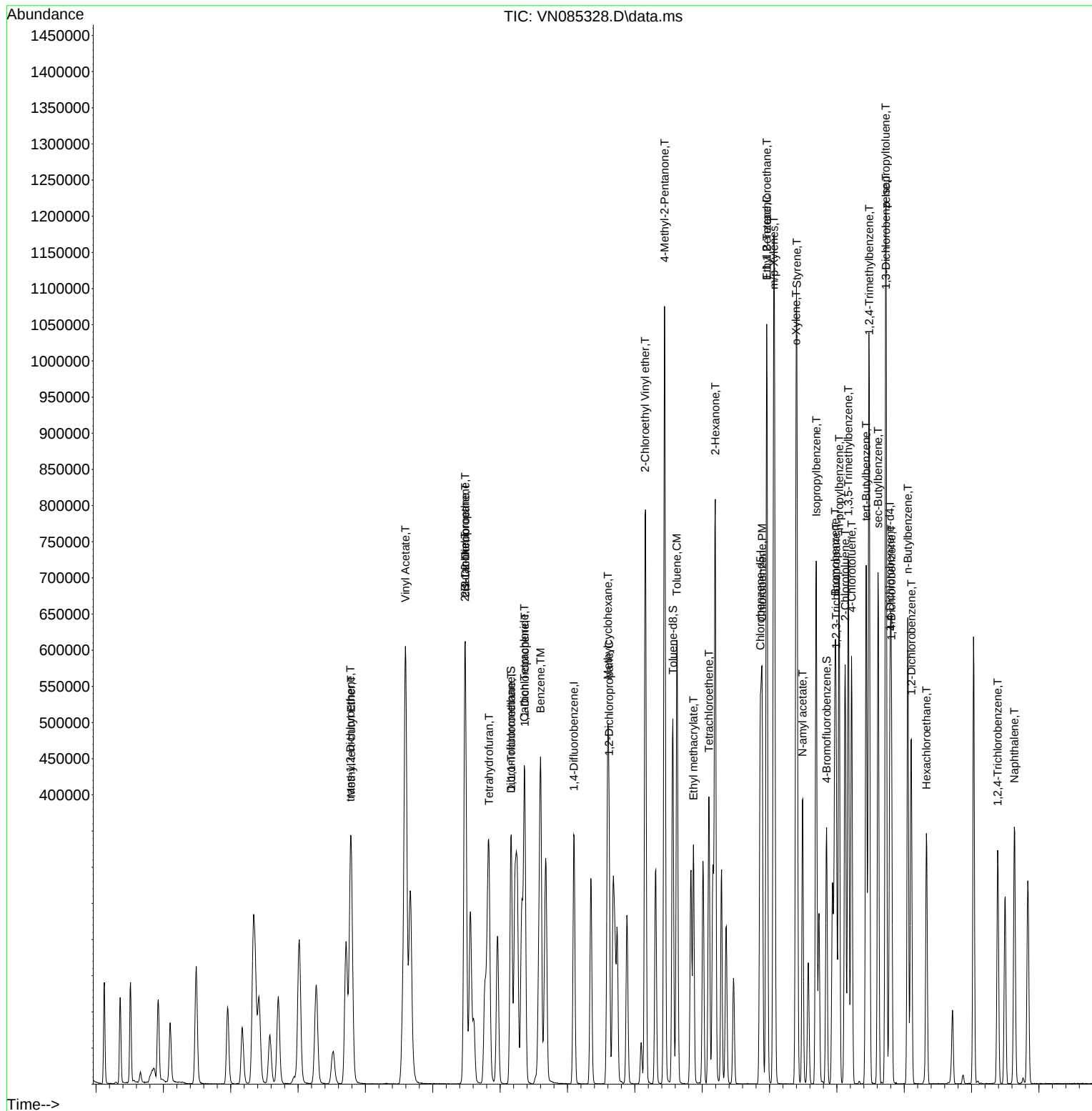
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Data File : VN085328.D
Acq On : 27 Dec 2024 15:58
Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
ICVVN122724

Manual Integrations APPROVED

Reviewed By :John Carlone 12/30/2024
Supervised By :Mahesh Dadoda 12/30/2024

Quant Time: Dec 28 01:40:29 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N122724W.M
Quant Title : SW846 8260
QLast Update : Sat Dec 28 01:36:16 2024
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN122724\
 Data File : VN085328.D
 Acq On : 27 Dec 2024 15:58
 Operator : JC\MD
 Sample : VSTDICV050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 ICVVN122724

Quant Time: Dec 28 01:40:29 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N122724W.M
 Quant Title : SW846 8260
 QLast Update : Sat Dec 28 01:36:16 2024
 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	106	0.00
2 T	Dichlorodifluoromethane	0.676	0.706	-4.4	107	0.00
3 P	Chloromethane	0.760	0.702	7.6	108	0.00
4 C	Vinyl Chloride	0.804	0.814	-1.2#	113	0.00
5 T	Bromomethane	0.526	0.508	3.4	111	-0.04
6 T	Chloroethane	0.510	0.517	-1.4	113	-0.02
7 T	Trichlorofluoromethane	1.057	1.065	-0.8	110	-0.01
8 T	Diethyl Ether	0.350	0.386	-10.3	114	0.00
9 T	1,1,2-Trichlorotrifluoroeth	0.601	0.614	-2.2	112	0.00
10 T	Methyl Iodide	0.696	0.724	-4.0	107	-0.01
11 T	Tert butyl alcohol	0.089	0.101	-13.5	124	0.01
12 CM	1,1-Dichloroethene	0.556	0.567	-2.0#	111	-0.01
13 T	Acrolein	0.139	0.119	14.4	97	0.00
14 T	Allyl chloride	0.889	0.911	-2.5	112	0.00
15 T	Acrylonitrile	0.281	0.305	-8.5	117	0.00
16 T	Acetone	0.235	0.262	-11.5	124	0.00
17 T	Carbon Disulfide	1.690	1.621	4.1	111	0.00
18 T	Methyl Acetate	0.718	0.774	-7.8	117	0.00
19 T	Methyl tert-butyl Ether	1.806	1.963	-8.7	111	0.00
20 T	Methylene Chloride	0.631	0.648	-2.7	112	0.00
21 T	trans-1,2-Dichloroethene	0.580	0.583	-0.5	109	0.00
22 T	Diisopropyl ether	1.916	2.080	-8.6	113	0.00
23 T	Vinyl Acetate	1.386	1.543	-11.3	114	0.00
24 P	1,1-Dichloroethane	1.154	1.191	-3.2	112	0.00
25 T	2-Butanone	0.364	0.412	-13.2	119	0.00
26 T	2,2-Dichloropropane	1.011	1.078	-6.6	110	0.00
27 T	cis-1,2-Dichloroethene	0.681	0.720	-5.7	110	0.00
28 T	Bromochloromethane	0.536	0.548	-2.2	109	0.00
29 T	Tetrahydrofuran	0.234	0.266	-13.7	118	0.00
30 C	Chloroform	1.181	1.202	-1.8#	112	0.00
31 T	Cyclohexane	1.054	1.011	4.1	109	0.00
32 T	1,1,1-Trichloroethane	1.055	1.062	-0.7	110	0.00
33 S	1,2-Dichloroethane-d4	0.713	0.721	-1.1	106	0.00
34 I	1,4-Difluorobenzene	1.000	1.000	0.0	105	0.00
35 S	Dibromofluoromethane	0.312	0.314	-0.6	104	0.00
36 T	1,1-Dichloropropene	0.457	0.479	-4.8	109	0.00
37 T	Ethyl Acetate	0.454	0.469	-3.3	118	0.00
38 T	Carbon Tetrachloride	0.498	0.524	-5.2	110	0.00
39 T	Methylcyclohexane	0.474	0.535	-12.9	112	0.00
40 TM	Benzene	1.381	1.451	-5.1	111	0.00
41 T	Methacrylonitrile	0.232	0.264	-13.8	117	0.00
42 TM	1,2-Dichloroethane	0.495	0.511	-3.2	113	0.00
43 T	Isopropyl Acetate	0.747	0.851	-13.9	120	0.00
44 TM	Trichloroethene	0.327	0.333	-1.8	112	0.00
45 C	1,2-Dichloropropane	0.351	0.375	-6.8#	116	0.00
46 T	Dibromomethane	0.244	0.261	-7.0	114	0.00
47 T	Bromodichloromethane	0.507	0.534	-5.3	111	0.00
48 T	Methyl methacrylate	0.324	0.380	-17.3	116	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN122724\
 Data File : VN085328.D
 Acq On : 27 Dec 2024 15:58
 Operator : JC\MD
 Sample : VSTDICV050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 ICSVN122724

Quant Time: Dec 28 01:40:29 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N122724W.M
 Quant Title : SW846 8260
 QLast Update : Sat Dec 28 01:36:16 2024
 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	0.005	0.006	-20.0	114	0.00
50 S	Toluene-d8	1.145	1.187	-3.7	108	0.00
51 T	4-Methyl-2-Pentanone	0.420	0.488	-16.2	118	0.00
52 CM	Toluene	0.822	0.903	-9.9#	112	0.00
53 T	t-1,3-Dichloropropene	0.498	0.563	-13.1	112	0.00
54 T	cis-1,3-Dichloropropene	0.539	0.593	-10.0	112	0.00
55 T	1,1,2-Trichloroethane	0.310	0.331	-6.8	114	0.00
56 T	Ethyl methacrylate	0.452	0.558	-23.5	117	0.00
57 T	1,3-Dichloropropane	0.545	0.589	-8.1	112	0.00
58 T	2-Chloroethyl Vinyl ether	0.219	0.246	-12.3	107	0.00
59 T	2-Hexanone	0.291	0.355	-22.0	121	0.00
60 T	Dibromochloromethane	0.350	0.398	-13.7	113	0.00
61 T	1,2-Dibromoethane	0.307	0.334	-8.8	112	0.00
62 S	4-Bromofluorobenzene	0.380	0.415	-9.2	109	0.00
63 I	Chlorobenzene-d5	1.000	1.000	0.0	106	0.00
64 T	Tetrachloroethene	0.317	0.330	-4.1	112	0.00
65 PM	Chlorobenzene	1.080	1.124	-4.1	114	0.00
66 T	1,1,1,2-Tetrachloroethane	0.363	0.384	-5.8	112	0.00
67 C	Ethyl Benzene	1.797	2.001	-11.4#	113	0.00
68 T	m/p-Xylenes	0.658	0.755	-14.7	113	0.00
69 T	o-Xylene	0.636	0.723	-13.7	112	0.00
70 T	Styrene	1.031	1.223	-18.6	113	0.00
71 P	Bromoform	0.251	0.282	-12.4	114	0.00
72 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	106	0.00
73 T	Isopropylbenzene	3.596	3.953	-9.9	112	0.00
74 T	N-amyl acetate	1.539	1.765	-14.7	115	0.00
75 P	1,1,2,2-Tetrachloroethane	1.145	1.144	0.1	114	0.00
76 T	1,2,3-Trichloropropane	0.934	0.922	1.3	118	0.00
77 T	Bromobenzene	0.891	0.884	0.8	112	0.00
78 T	n-propylbenzene	4.191	4.689	-11.9	113	0.00
79 T	2-Chlorotoluene	2.638	2.821	-6.9	113	0.00
80 T	1,3,5-Trimethylbenzene	2.908	3.279	-12.8	113	0.00
81 T	trans-1,4-Dichloro-2-butene	0.390	0.431	-10.5	113	0.00
82 T	4-Chlorotoluene	2.657	2.842	-7.0	114	0.00
83 T	tert-Butylbenzene	2.519	2.769	-9.9	113	0.00
84 T	1,2,4-Trimethylbenzene	2.896	3.328	-14.9	113	0.00
85 T	sec-Butylbenzene	3.497	3.978	-13.8	113	0.00
86 T	p-Isopropyltoluene	2.816	3.332	-18.3	114	0.00
87 T	1,3-Dichlorobenzene	1.615	1.704	-5.5	114	0.00
88 T	1,4-Dichlorobenzene	1.659	1.676	-1.0	113	0.00
89 T	n-Butylbenzene	2.561	2.978	-16.3	116	0.00
90 T	Hexachloroethane	0.573	0.622	-8.6	110	0.00
91 T	1,2-Dichlorobenzene	1.538	1.620	-5.3	113	0.00
92 T	1,2-Dibromo-3-Chloropropane	0.204	0.230	-12.7	120	0.00
93 T	1,2,4-Trichlorobenzene	0.768	0.831	-8.2	115	0.00
94 T	Hexachlorobutadiene	0.381	0.383	-0.5	119	0.00
95 T	Naphthalene	2.603	2.662	-2.3	111	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN122724\
Data File : VN085328.D
Acq On : 27 Dec 2024 15:58
Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
ICVVN122724

Quant Time: Dec 28 01:40:29 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N122724W.M
Quant Title : SW846 8260
QLast Update : Sat Dec 28 01:36:16 2024
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	0.767	0.791	-3.1	112	0.00

(#) = Out of Range

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN122724\
 Data File : VN085328.D
 Acq On : 27 Dec 2024 15:58
 Operator : JC\MD
 Sample : VSTDICV050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 ICVVN122724

Quant Time: Dec 28 01:40:29 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N122724W.M
 Quant Title : SW846 8260
 QLast Update : Sat Dec 28 01:36:16 2024
 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	106	0.00
2 T	Dichlorodifluoromethane	50.000	52.192	-4.4	107	0.00
3 P	Chloromethane	50.000	46.193	7.6	108	0.00
4 C	Vinyl Chloride	50.000	50.656	-1.3#	113	0.00
5 T	Bromomethane	50.000	48.321	3.4	111	-0.04
6 T	Chloroethane	50.000	50.664	-1.3	113	-0.02
7 T	Trichlorofluoromethane	50.000	50.396	-0.8	110	-0.01
8 T	Diethyl Ether	50.000	55.098	-10.2	114	0.00
9 T	1,1,2-Trichlorotrifluoroeth	50.000	51.030	-2.1	112	0.00
10 T	Methyl Iodide	50.000	52.018	-4.0	107	-0.01
11 T	Tert butyl alcohol	250.000	282.346	-12.9	124	0.01
12 CM	1,1-Dichloroethene	50.000	51.049	-2.1#	111	-0.01
13 T	Acrolein	250.000	214.370	14.3	97	0.00
14 T	Allyl chloride	50.000	51.210	-2.4	112	0.00
15 T	Acrylonitrile	250.000	271.490	-8.6	117	0.00
16 T	Acetone	250.000	279.767	-11.9	124	0.00
17 T	Carbon Disulfide	50.000	47.961	4.1	111	0.00
18 T	Methyl Acetate	50.000	53.913	-7.8	117	0.00
19 T	Methyl tert-butyl Ether	50.000	54.338	-8.7	111	0.00
20 T	Methylene Chloride	50.000	51.370	-2.7	112	0.00
21 T	trans-1,2-Dichloroethene	50.000	50.262	-0.5	109	0.00
22 T	Diisopropyl ether	50.000	54.277	-8.6	113	0.00
23 T	Vinyl Acetate	250.000	278.352	-11.3	114	0.00
24 P	1,1-Dichloroethane	50.000	51.577	-3.2	112	0.00
25 T	2-Butanone	250.000	283.341	-13.3	119	0.00
26 T	2,2-Dichloropropane	50.000	53.283	-6.6	110	0.00
27 T	cis-1,2-Dichloroethene	50.000	52.846	-5.7	110	0.00
28 T	Bromochloromethane	50.000	51.112	-2.2	109	0.00
29 T	Tetrahydrofuran	250.000	283.909	-13.6	118	0.00
30 C	Chloroform	50.000	50.890	-1.8#	112	0.00
31 T	Cyclohexane	50.000	47.956	4.1	109	0.00
32 T	1,1,1-Trichloroethane	50.000	50.333	-0.7	110	0.00
33 S	1,2-Dichloroethane-d4	50.000	50.547	-1.1	106	0.00
34 I	1,4-Difluorobenzene	50.000	50.000	0.0	105	0.00
35 S	Dibromofluoromethane	50.000	50.398	-0.8	104	0.00
36 T	1,1-Dichloropropene	50.000	52.447	-4.9	109	0.00
37 T	Ethyl Acetate	50.000	51.666	-3.3	118	0.00
38 T	Carbon Tetrachloride	50.000	52.672	-5.3	110	0.00
39 T	Methylcyclohexane	50.000	56.501	-13.0	112	0.00
40 TM	Benzene	50.000	52.550	-5.1	111	0.00
41 T	Methacrylonitrile	50.000	56.677	-13.4	117	0.00
42 TM	1,2-Dichloroethane	50.000	51.568	-3.1	113	0.00
43 T	Isopropyl Acetate	50.000	56.953	-13.9	120	0.00
44 TM	Trichloroethene	50.000	50.930	-1.9	112	0.00
45 C	1,2-Dichloropropane	50.000	53.441	-6.9#	116	0.00
46 T	Dibromomethane	50.000	53.491	-7.0	114	0.00
47 T	Bromodichloromethane	50.000	52.728	-5.5	111	0.00
48 T	Methyl methacrylate	50.000	58.590	-17.2	116	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN122724\
 Data File : VN085328.D
 Acq On : 27 Dec 2024 15:58
 Operator : JC\MD
 Sample : VSTDICV050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 ICSVN122724

Quant Time: Dec 28 01:40:29 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N122724W.M
 Quant Title : SW846 8260
 QLast Update : Sat Dec 28 01:36:16 2024
 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	1197.029	-19.7	114	0.00
50 S	Toluene-d8	50.000	51.871	-3.7	108	0.00
51 T	4-Methyl-2-Pentanone	250.000	290.641	-16.3	118	0.00
52 CM	Toluene	50.000	54.941	-9.9#	112	0.00
53 T	t-1,3-Dichloropropene	50.000	56.497	-13.0	112	0.00
54 T	cis-1,3-Dichloropropene	50.000	55.040	-10.1	112	0.00
55 T	1,1,2-Trichloroethane	50.000	53.314	-6.6	114	0.00
56 T	Ethyl methacrylate	50.000	61.733	-23.5	117	0.00
57 T	1,3-Dichloropropane	50.000	54.020	-8.0	112	0.00
58 T	2-Chloroethyl Vinyl ether	250.000	280.905	-12.4	107	0.00
59 T	2-Hexanone	250.000	304.633	-21.9	121	0.00
60 T	Dibromochloromethane	50.000	56.856	-13.7	113	0.00
61 T	1,2-Dibromoethane	50.000	54.445	-8.9	112	0.00
62 S	4-Bromofluorobenzene	50.000	54.619	-9.2	109	0.00
63 I	Chlorobenzene-d5	50.000	50.000	0.0	106	0.00
64 T	Tetrachloroethene	50.000	52.056	-4.1	112	0.00
65 PM	Chlorobenzene	50.000	52.014	-4.0	114	0.00
66 T	1,1,1,2-Tetrachloroethane	50.000	52.882	-5.8	112	0.00
67 C	Ethyl Benzene	50.000	55.669	-11.3#	113	0.00
68 T	m/p-Xylenes	100.000	114.768	-14.8	113	0.00
69 T	o-Xylene	50.000	56.809	-13.6	112	0.00
70 T	Styrene	50.000	59.331	-18.7	113	0.00
71 P	Bromoform	50.000	56.226	-12.5	114	0.00
72 I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	106	0.00
73 T	Isopropylbenzene	50.000	54.966	-9.9	112	0.00
74 T	N-amyl acetate	50.000	57.337	-14.7	115	0.00
75 P	1,1,2,2-Tetrachloroethane	50.000	49.956	0.1	114	0.00
76 T	1,2,3-Trichloropropane	50.000	49.397	1.2	118	0.00
77 T	Bromobenzene	50.000	49.621	0.8	112	0.00
78 T	n-propylbenzene	50.000	55.937	-11.9	113	0.00
79 T	2-Chlorotoluene	50.000	53.482	-7.0	113	0.00
80 T	1,3,5-Trimethylbenzene	50.000	56.370	-12.7	113	0.00
81 T	trans-1,4-Dichloro-2-butene	50.000	55.281	-10.6	113	0.00
82 T	4-Chlorotoluene	50.000	53.493	-7.0	114	0.00
83 T	tert-Butylbenzene	50.000	54.963	-9.9	113	0.00
84 T	1,2,4-Trimethylbenzene	50.000	57.454	-14.9	113	0.00
85 T	sec-Butylbenzene	50.000	56.877	-13.8	113	0.00
86 T	p-Isopropyltoluene	50.000	53.045	-6.1	114	0.00
87 T	1,3-Dichlorobenzene	50.000	52.759	-5.5	114	0.00
88 T	1,4-Dichlorobenzene	50.000	50.524	-1.0	113	0.00
89 T	n-Butylbenzene	50.000	58.149	-16.3	116	0.00
90 T	Hexachloroethane	50.000	54.238	-8.5	110	0.00
91 T	1,2-Dichlorobenzene	50.000	52.669	-5.3	113	0.00
92 T	1,2-Dibromo-3-Chloropropane	50.000	56.494	-13.0	120	0.00
93 T	1,2,4-Trichlorobenzene	50.000	54.113	-8.2	115	0.00
94 T	Hexachlorobutadiene	50.000	50.146	-0.3	119	0.00
95 T	Naphthalene	50.000	51.123	-2.2	111	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN122724\
Data File : VN085328.D
Acq On : 27 Dec 2024 15:58
Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
ICVVN122724

Quant Time: Dec 28 01:40:29 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N122724W.M
Quant Title : SW846 8260
QLast Update : Sat Dec 28 01:36:16 2024
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	51.589	-3.2	112	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: CHEMTECH Contract: GARD04

Lab Code: CHEM Case No.: Q1038 SAS No.: Q1038 SDG No.: Q1038

Instrument ID: MSVOA_N Calibration Date/Time: 01/09/2025 11:45

Lab File ID: VN085401.D Init. Calib. Date(s): 12/27/2024 12/27/2024

Heated Purge: (Y/N) N Init. Calib. Time(s): 10:26 12:48

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.676	0.694		2.66	20
Chloromethane	0.760	0.704	0.1	-7.37	20
Vinyl Chloride	0.804	0.727		-9.58	20
Bromomethane	0.526	0.514		-2.28	20
Chloroethane	0.510	0.453		-11.18	20
Trichlorofluoromethane	1.057	1.058		0.09	20
1,1,2-Trichlorotrifluoroethane	0.601	0.615		2.33	20
1,1-Dichloroethene	0.556	0.559		0.54	20
Acetone	0.235	0.229		-2.55	20
Carbon Disulfide	1.690	1.714		1.42	20
Methyl tert-butyl Ether	1.806	1.859		2.93	20
Methyl Acetate	0.718	0.679		-5.43	20
Methylene Chloride	0.631	0.646		2.38	20
trans-1,2-Dichloroethene	0.580	0.598		3.1	20
1,1-Dichloroethane	1.154	1.206	0.1	4.51	20
Cyclohexane	1.054	1.039		-1.42	20
2-Butanone	0.364	0.339		-6.87	20
Carbon Tetrachloride	0.498	0.555		11.45	20
cis-1,2-Dichloroethene	0.681	0.718		5.43	20
Bromochloromethane	0.536	0.536		0	20
Chloroform	1.181	1.196		1.27	20
1,1,1-Trichloroethane	1.055	1.057		0.19	20
Methylcyclohexane	0.474	0.567		19.62	20
Benzene	1.381	1.531		10.86	20
1,2-Dichloroethane	0.495	0.524		5.86	20
Trichloroethene	0.327	0.345		5.51	20
1,2-Dichloropropane	0.351	0.384		9.4	20
Bromodichloromethane	0.507	0.551		8.68	20
4-Methyl-2-Pentanone	0.420	0.414		-1.43	20
Toluene	0.822	0.921		12.04	20
t-1,3-Dichloropropene	0.498	0.562		12.85	20
cis-1,3-Dichloropropene	0.539	0.602		11.69	20
1,1,2-Trichloroethane	0.310	0.323		4.19	20
2-Hexanone	0.291	0.286		-1.72	20
Dibromochloromethane	0.350	0.386		10.29	20
1,2-Dibromoethane	0.307	0.322		4.89	20
Tetrachloroethene	0.317	0.351		10.73	20
Chlorobenzene	1.080	1.126	0.3	4.26	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: CHEMTECH Contract: GARD04
 Lab Code: CHEM Case No.: Q1038 SAS No.: Q1038 SDG No.: Q1038
 Instrument ID: MSVOA_N Calibration Date/Time: 01/09/2025 11:45
 Lab File ID: VN085401.D Init. Calib. Date(s): 12/27/2024 12/27/2024
 Heated Purge: (Y/N) N Init. Calib. Time(s): 10:26 12:48
 GC Column: RXI-624 ID: 0.25 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Ethyl Benzene	1.797	2.016		12.19	20
m/p-Xylenes	0.658	0.768		16.72	20
o-Xylene	0.636	0.712		11.95	20
Styrene	1.031	1.204		16.78	20
Bromoform	0.251	0.266	0.1	5.98	20
Isopropylbenzene	3.596	4.029		12.04	20
1,1,2,2-Tetrachloroethane	1.145	1.096	0.3	-4.28	20
1,3-Dichlorobenzene	1.615	1.690		4.64	20
1,4-Dichlorobenzene	1.659	1.685		1.57	20
1,2-Dichlorobenzene	1.538	1.621		5.4	20
1,2-Dibromo-3-Chloropropane	0.204	0.196		-3.92	20
1,2,4-Trichlorobenzene	0.768	0.843		9.77	20
1,2,3-Trichlorobenzene	0.767	0.810		5.61	20
1,2-Dichloroethane-d4	0.713	0.638		-10.52	20
Dibromofluoromethane	0.312	0.289		-7.37	20
Toluene-d8	1.145	1.040		-9.17	20
4-Bromofluorobenzene	0.380	0.352		-7.37	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\VN010925\
 Data File : VN085401.D
 Acq On : 09 Jan 2025 11:45
 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 :Mahesh Dadoda 01/10/2025
 Supervised By :Semsettin Yesilyurt 01/10/2025

Quant Time: Jan 10 00:32:25 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N122724W.M
 Quant Title : SW846 8260
 QLast Update : Sat Dec 28 01:36:16 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.218	168	178998	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.094	114	308812	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.859	117	266196	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	121857	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.571	65	114200	44.731	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	89.460%
35) Dibromofluoromethane	8.159	113	89323	46.365	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	92.720%
50) Toluene-d8	10.559	98	321116	45.422	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	90.840%
62) 4-Bromofluorobenzene	12.841	95	108553	46.235	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	92.460%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.124	85	124248	51.324	ug/l	98
3) Chloromethane	2.359	50	126034	46.322	ug/l	97
4) Vinyl Chloride	2.518	62	130058	45.198	ug/l	99
5) Bromomethane	2.965	94	91945	48.857	ug/l	99
6) Chloroethane	3.124	64	81040	44.409	ug/l	96
7) Trichlorofluoromethane	3.500	101	189439	50.082	ug/l	100
8) Diethyl Ether	3.959	74	64592	51.573	ug/l	96
9) 1,1,2-Trichlorotrifluo...	4.371	101	110161	51.183	ug/l	98
10) Methyl Iodide	4.589	142	120442	48.356	ug/l	92
11) Tert butyl alcohol	5.542	59	64190	200.788	ug/l	100
12) 1,1-Dichloroethene	4.342	96	100056	50.301	ug/l	96
13) Acrolein	4.177	56	104192	209.045	ug/l	97
14) Allyl chloride	5.018	41	175519	55.134	ug/l	94
15) Acrylonitrile	5.712	53	233735	232.298	ug/l	99
16) Acetone	4.430	43	204959	244.143	ug/l	100
17) Carbon Disulfide	4.712	76	306829	50.705	ug/l	99
18) Methyl Acetate	5.018	43	121612	47.316	ug/l	99
19) Methyl tert-butyl Ether	5.789	73	332699	51.459	ug/l	97
20) Methylene Chloride	5.277	84	115570	51.181	ug/l	95
21) trans-1,2-Dichloroethene	5.783	96	107060	51.524	ug/l	98
22) Diisopropyl ether	6.665	45	375026	54.667	ug/l	97
23) Vinyl Acetate	6.594	43	1336471	269.297	ug/l	99
24) 1,1-Dichloroethane	6.559	63	215894	52.243	ug/l	97
25) 2-Butanone	7.477	43	303415	232.966	ug/l	97
26) 2,2-Dichloropropane	7.483	77	193917	53.560	ug/l	100
27) cis-1,2-Dichloroethene	7.477	96	128450	52.669	ug/l	96
28) Bromochloromethane	7.806	49	96017	49.998	ug/l #	98
29) Tetrahydrofuran	7.830	42	196659	234.413	ug/l	98
30) Chloroform	7.959	83	214053	50.631	ug/l	100
31) Cyclohexane	8.253	56	186063	49.307	ug/l	99
32) 1,1,1-Trichloroethane	8.159	97	189200	50.110	ug/l	97
36) 1,1-Dichloropropene	8.365	75	155250	55.039	ug/l	99
37) Ethyl Acetate	7.553	43	128868	45.964	ug/l	99
38) Carbon Tetrachloride	8.359	117	171351	55.731	ug/l	98
39) Methylcyclohexane	9.594	83	174988	59.791	ug/l	98
40) Benzene	8.600	78	472706	55.427	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN010925\
 Data File : VN085401.D
 Acq On : 09 Jan 2025 11:45
 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 :Mahesh Dadoda 01/10/2025
 Supervised By :Semsettin Yesilyurt 01/10/2025

Quant Time: Jan 10 00:32:25 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N122724W.M
 Quant Title : SW846 8260
 QLast Update : Sat Dec 28 01:36:16 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.777	41	73584	51.247	ug/l	99
42) 1,2-Dichloroethane	8.665	62	161955	52.966	ug/l	100
43) Isopropyl Acetate	8.682	43	233418	50.562	ug/l	99
44) Trichloroethene	9.347	130	106610	52.800	ug/l	100
45) 1,2-Dichloropropane	9.618	63	118605	54.783	ug/l	98
46) Dibromomethane	9.706	93	77813	51.680	ug/l	98
47) Bromodichloromethane	9.882	83	170097	54.354	ug/l	98
48) Methyl methacrylate	9.677	41	106293	53.062	ug/l	98
49) 1,4-Dioxane	9.706	88	25729	851.288	ug/l #	84
51) 4-Methyl-2-Pentanone	10.441	43	639152	246.365	ug/l	99
52) Toluene	10.624	92	284498	56.025	ug/l	98
53) t-1,3-Dichloropropene	10.829	75	173411	56.347	ug/l	98
54) cis-1,3-Dichloropropene	10.306	75	185989	55.888	ug/l	97
55) 1,1,2-Trichloroethane	11.012	97	99682	51.993	ug/l	97
56) Ethyl methacrylate	10.871	69	158178	56.649	ug/l	99
57) 1,3-Dichloropropane	11.159	76	181446	53.922	ug/l	100
58) 2-Chloroethyl Vinyl ether	10.153	63	358969	265.718	ug/l	99
59) 2-Hexanone	11.188	43	441368	245.210	ug/l	100
60) Dibromochloromethane	11.353	129	119065	55.137	ug/l	99
61) 1,2-Dibromoethane	11.465	107	99480	52.447	ug/l	99
64) Tetrachloroethene	11.100	164	93540	55.456	ug/l	97
65) Chlorobenzene	11.888	112	299648	52.090	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.953	131	103363	53.538	ug/l	100
67) Ethyl Benzene	11.959	91	536740	56.106	ug/l	99
68) m/p-Xylenes	12.065	106	408644	116.723	ug/l	98
69) o-Xylene	12.394	106	189434	55.934	ug/l	95
70) Styrene	12.406	104	320407	58.373	ug/l	99
71) Bromoform	12.576	173	70926	53.040	ug/l #	100
73) Isopropylbenzene	12.688	105	490945	56.026	ug/l	99
74) N-amyl acetate	12.488	43	191175	50.968	ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.935	83	133498	47.834	ug/l	98
76) 1,2,3-Trichloropropane	12.988	75	118038m	51.873	ug/l	
77) Bromobenzene	12.976	156	110811	51.041	ug/l	97
78) n-propylbenzene	13.029	91	588024	57.568	ug/l	100
79) 2-Chlorotoluene	13.117	91	346041	53.829	ug/l	100
80) 1,3,5-Trimethylbenzene	13.170	105	404079	57.009	ug/l	100
81) trans-1,4-Dichloro-2-b...	12.729	75	45652	48.045	ug/l	100
82) 4-Chlorotoluene	13.217	91	346959	53.589	ug/l	100
83) tert-Butylbenzene	13.435	119	339653	55.320	ug/l	100
84) 1,2,4-Trimethylbenzene	13.476	105	409993	58.091	ug/l	99
85) sec-Butylbenzene	13.612	105	486636	57.100	ug/l	99
86) p-Isopropyltoluene	13.723	119	402662	52.634	ug/l	99
87) 1,3-Dichlorobenzene	13.729	146	205987	52.338	ug/l	99
88) 1,4-Dichlorobenzene	13.806	146	205327	50.789	ug/l	99
89) n-Butylbenzene	14.053	91	359098	57.540	ug/l	100
90) Hexachloroethane	14.329	117	75054	53.726	ug/l	96
91) 1,2-Dichlorobenzene	14.100	146	197523	52.684	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	14.717	75	23936	48.190	ug/l	99
93) 1,2,4-Trichlorobenzene	15.388	180	102675	54.872	ug/l	98
94) Hexachlorobutadiene	15.494	225	47782	51.395	ug/l	98
95) Naphthalene	15.635	128	292512	46.101	ug/l	100
96) 1,2,3-Trichlorobenzene	15.835	180	98679	52.782	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN010925\
Data File : VN085401.D
Acq On : 09 Jan 2025 11:45
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 :Mahesh Dadoda 01/10/2025
Supervised By :Semsettin Yesilyurt 01/10/2025

Quant Time: Jan 10 00:32:25 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N122724W.M
Quant Title : SW846 8260
QLast Update : Sat Dec 28 01:36:16 2024
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

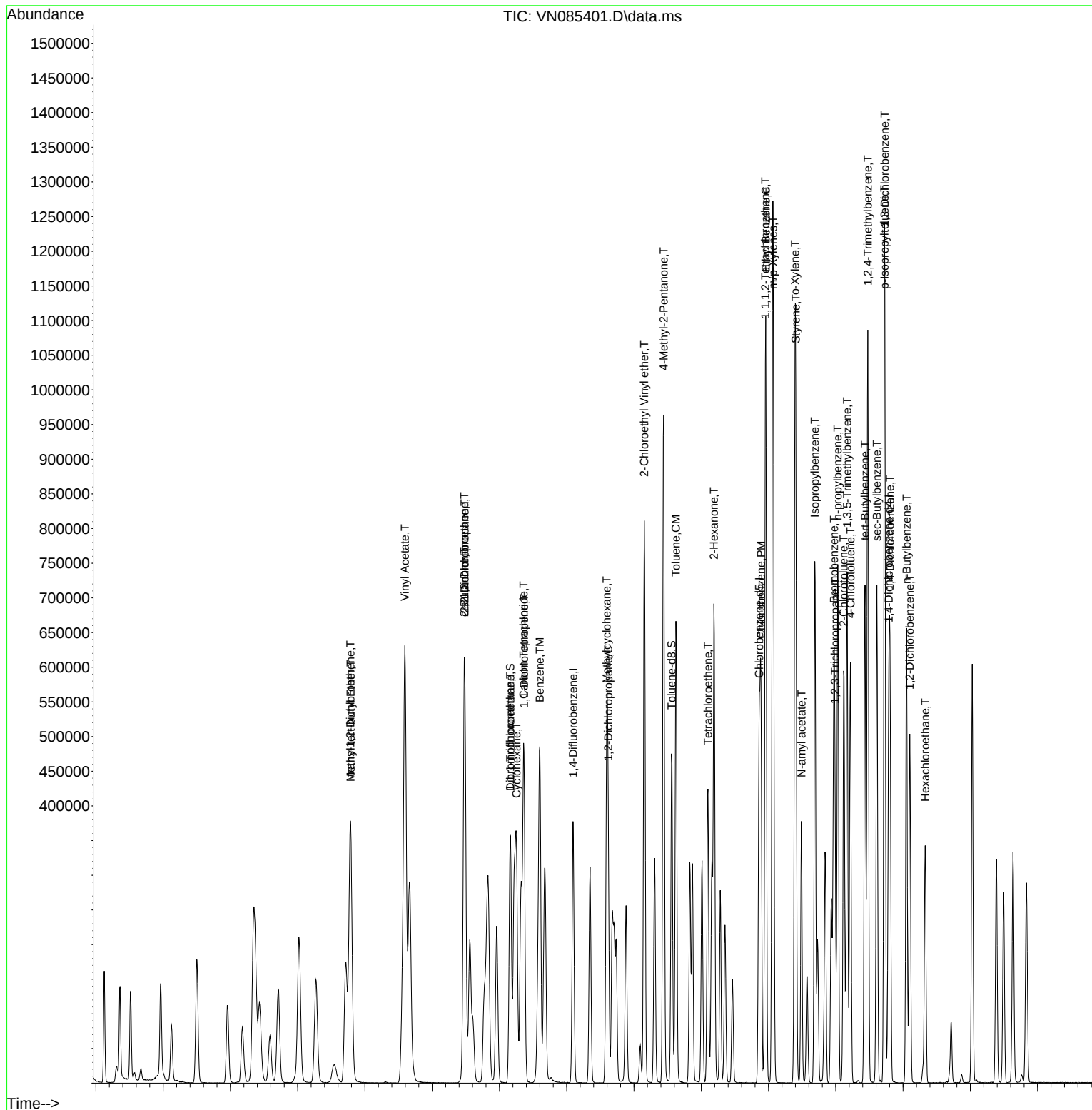
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Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN010925\  
Data File : VN085401.D  
Acq On    : 09 Jan 2025   11:45  
Operator  : JC\MD  
Sample    : VSTDCCC050  
Misc      : 5.0mL/MSVOA_N/WATER  
ALS Vial  : 2   Sample Multiplier: 1
```

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations

Reviewed By :Mahesh Dadoda 01/10/2025
Supervised By :Semsettin Yesilyurt 01/10/2025

Quant Time: Jan 10 00:32:25 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N122724W.M
Quant Title : SW846 8260
QLast Update : Sat Dec 28 01:36:16 2024
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN010925\
 Data File : VN085401.D
 Acq On : 09 Jan 2025 11:45
 Operator : JC\MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_N
 LabSampleId :
 VSTDCCC050

Quant Time: Jan 10 00:32:25 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N122724W.M
 Quant Title : SW846 8260
 QLast Update : Sat Dec 28 01:36:16 2024
 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	115	0.00
2 T	Dichlorodifluoromethane	0.676	0.694	-2.7	114	0.00
3 P	Chloromethane	0.760	0.704	7.4	118	0.00
4 C	Vinyl Chloride	0.804	0.727	9.6#	110	0.00
5 T	Bromomethane	0.526	0.514	2.3	123	0.00
6 T	Chloroethane	0.510	0.453	11.2	108	0.00
7 T	Trichlorofluoromethane	1.057	1.058	-0.1	119	0.00
8 T	Diethyl Ether	0.350	0.361	-3.1	116	0.00
9 T	1,1,2-Trichlorotrifluoroeth	0.601	0.615	-2.3	123	0.00
10 T	Methyl Iodide	0.696	0.673	3.3	108	0.00
11 T	Tert butyl alcohol	0.089	0.072	19.1	97	0.03
12 CM	1,1-Dichloroethene	0.556	0.559	-0.5#	120	0.00
13 T	Acrolein	0.139	0.116	16.5	103	0.00
14 T	Allyl chloride	0.889	0.981	-10.3	132	0.00
15 T	Acrylonitrile	0.281	0.261	7.1	109	0.00
16 T	Acetone	0.235	0.229	2.6	118	0.01
17 T	Carbon Disulfide	1.690	1.714	-1.4	128	0.00
18 T	Methyl Acetate	0.718	0.679	5.4	112	0.00
19 T	Methyl tert-butyl Ether	1.806	1.859	-2.9	114	0.00
20 T	Methylene Chloride	0.631	0.646	-2.4	121	0.00
21 T	trans-1,2-Dichloroethene	0.580	0.598	-3.1	122	0.00
22 T	Diisopropyl ether	1.916	2.095	-9.3	124	0.00
23 T	Vinyl Acetate	1.386	1.493	-7.7	120	0.00
24 P	1,1-Dichloroethane	1.154	1.206	-4.5	124	0.00
25 T	2-Butanone	0.364	0.339	6.9	106	0.00
26 T	2,2-Dichloropropane	1.011	1.083	-7.1	121	0.00
27 T	cis-1,2-Dichloroethene	0.681	0.718	-5.4	120	0.00
28 T	Bromochloromethane	0.536	0.536	0.0	116	0.00
29 T	Tetrahydrofuran	0.234	0.220	6.0	106	0.00
30 C	Chloroform	1.181	1.196	-1.3#	121	0.00
31 T	Cyclohexane	1.054	1.039	1.4	122	0.00
32 T	1,1,1-Trichloroethane	1.055	1.057	-0.2	119	0.00
33 S	1,2-Dichloroethane-d4	0.713	0.638	10.5	102	0.00
34 I	1,4-Difluorobenzene	1.000	1.000	0.0	111	0.00
35 S	Dibromofluoromethane	0.312	0.289	7.4	101	0.00
36 T	1,1-Dichloropropene	0.457	0.503	-10.1	121	0.00
37 T	Ethyl Acetate	0.454	0.417	8.1	111	0.00
38 T	Carbon Tetrachloride	0.498	0.555	-11.4	123	0.00
39 T	Methylcyclohexane	0.474	0.567	-19.6	125	0.00
40 TM	Benzene	1.381	1.531	-10.9	123	0.00
41 T	Methacrylonitrile	0.232	0.238	-2.6	112	0.00
42 TM	1,2-Dichloroethane	0.495	0.524	-5.9	123	0.00
43 T	Isopropyl Acetate	0.747	0.756	-1.2	113	0.00
44 TM	Trichloroethene	0.327	0.345	-5.5	123	0.00
45 C	1,2-Dichloropropane	0.351	0.384	-9.4#	126	0.00
46 T	Dibromomethane	0.244	0.252	-3.3	116	0.00
47 T	Bromodichloromethane	0.507	0.551	-8.7	121	0.00
48 T	Methyl methacrylate	0.324	0.344	-6.2	111	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN010925\
 Data File : VN085401.D
 Acq On : 09 Jan 2025 11:45
 Operator : JC\MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_N
 LabSampleId :
 VSTDCCC050

Quant Time: Jan 10 00:32:25 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N122724W.M
 Quant Title : SW846 8260
 QLast Update : Sat Dec 28 01:36:16 2024
 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	0.005	0.004	20.0	86	0.02
50 S	Toluene-d8	1.145	1.040	9.2	99	0.00
51 T	4-Methyl-2-Pentanone	0.420	0.414	1.4	106	0.00
52 CM	Toluene	0.822	0.921	-12.0#	121	0.00
53 T	t-1,3-Dichloropropene	0.498	0.562	-12.9	118	0.00
54 T	cis-1,3-Dichloropropene	0.539	0.602	-11.7	120	0.00
55 T	1,1,2-Trichloroethane	0.310	0.323	-4.2	117	0.00
56 T	Ethyl methacrylate	0.452	0.512	-13.3	113	0.00
57 T	1,3-Dichloropropane	0.545	0.588	-7.9	118	0.00
58 T	2-Chloroethyl Vinyl ether	0.219	0.232	-5.9	107	0.00
59 T	2-Hexanone	0.291	0.286	1.7	103	0.00
60 T	Dibromochloromethane	0.350	0.386	-10.3	115	0.00
61 T	1,2-Dibromoethane	0.307	0.322	-4.9	114	0.00
62 S	4-Bromofluorobenzene	0.380	0.352	7.4	97	0.00
63 I	Chlorobenzene-d5	1.000	1.000	0.0	111	0.00
64 T	Tetrachloroethene	0.317	0.351	-10.7	124	0.00
65 PM	Chlorobenzene	1.080	1.126	-4.3	119	0.00
66 T	1,1,1,2-Tetrachloroethane	0.363	0.388	-6.9	118	0.00
67 C	Ethyl Benzene	1.797	2.016	-12.2#	119	0.00
68 T	m/p-Xylenes	0.658	0.768	-16.7	120	0.00
69 T	o-Xylene	0.636	0.712	-11.9	114	0.00
70 T	Styrene	1.031	1.204	-16.8	116	0.00
71 P	Bromoform	0.251	0.266	-6.0	112	0.00
72 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	107	0.00
73 T	Isopropylbenzene	3.596	4.029	-12.0	116	0.00
74 T	N-amyl acetate	1.539	1.569	-1.9	104	0.00
75 P	1,1,2,2-Tetrachloroethane	1.145	1.096	4.3	111	0.00
76 T	1,2,3-Trichloropropane	0.934	0.969	-3.7	125	0.00
77 T	Bromobenzene	0.891	0.909	-2.0	116	0.00
78 T	n-propylbenzene	4.191	4.826	-15.2	118	0.00
79 T	2-Chlorotoluene	2.638	2.840	-7.7	116	0.00
80 T	1,3,5-Trimethylbenzene	2.908	3.316	-14.0	116	0.00
81 T	trans-1,4-Dichloro-2-butene	0.390	0.375	3.8	100	0.00
82 T	4-Chlorotoluene	2.657	2.847	-7.2	116	0.00
83 T	tert-Butylbenzene	2.519	2.787	-10.6	115	0.00
84 T	1,2,4-Trimethylbenzene	2.896	3.365	-16.2	116	0.00
85 T	sec-Butylbenzene	3.497	3.994	-14.2	115	0.00
86 T	p-Isopropyltoluene	2.816	3.304	-17.3	115	0.00
87 T	1,3-Dichlorobenzene	1.615	1.690	-4.6	115	0.00
88 T	1,4-Dichlorobenzene	1.659	1.685	-1.6	115	0.00
89 T	n-Butylbenzene	2.561	2.947	-15.1	116	0.00
90 T	Hexachloroethane	0.573	0.616	-7.5	111	0.00
91 T	1,2-Dichlorobenzene	1.538	1.621	-5.4	115	0.00
92 T	1,2-Dibromo-3-Chloropropane	0.204	0.196	3.9	104	0.00
93 T	1,2,4-Trichlorobenzene	0.768	0.843	-9.8	119	0.00
94 T	Hexachlorobutadiene	0.381	0.392	-2.9	124	0.00
95 T	Naphthalene	2.603	2.400	7.8	102	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN010925\
Data File : VN085401.D
Acq On : 09 Jan 2025 11:45
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC050

Quant Time: Jan 10 00:32:25 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N122724W.M
Quant Title : SW846 8260
QLast Update : Sat Dec 28 01:36:16 2024
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	0.767	0.810	-5.6	117	0.00

(#) = Out of Range

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN010925\
 Data File : VN085401.D
 Acq On : 09 Jan 2025 11:45
 Operator : JC\MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_N
 LabSampleId :
 VSTDCCC050

Quant Time: Jan 10 00:32:25 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N122724W.M
 Quant Title : SW846 8260
 QLast Update : Sat Dec 28 01:36:16 2024
 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	115	0.00
2 T	Dichlorodifluoromethane	50.000	51.324	-2.6	114	0.00
3 P	Chloromethane	50.000	46.322	7.4	118	0.00
4 C	Vinyl Chloride	50.000	45.198	9.6#	110	0.00
5 T	Bromomethane	50.000	48.857	2.3	123	0.00
6 T	Chloroethane	50.000	44.409	11.2	108	0.00
7 T	Trichlorofluoromethane	50.000	50.082	-0.2	119	0.00
8 T	Diethyl Ether	50.000	51.573	-3.1	116	0.00
9 T	1,1,2-Trichlorotrifluoroeth	50.000	51.183	-2.4	123	0.00
10 T	Methyl Iodide	50.000	48.356	3.3	108	0.00
11 T	Tert butyl alcohol	250.000	200.788	19.7	97	0.03
12 CM	1,1-Dichloroethene	50.000	50.301	-0.6#	120	0.00
13 T	Acrolein	250.000	209.045	16.4	103	0.00
14 T	Allyl chloride	50.000	55.134	-10.3	132	0.00
15 T	Acrylonitrile	250.000	232.298	7.1	109	0.00
16 T	Acetone	250.000	244.143	2.3	118	0.01
17 T	Carbon Disulfide	50.000	50.705	-1.4	128	0.00
18 T	Methyl Acetate	50.000	47.316	5.4	112	0.00
19 T	Methyl tert-butyl Ether	50.000	51.459	-2.9	114	0.00
20 T	Methylene Chloride	50.000	51.181	-2.4	121	0.00
21 T	trans-1,2-Dichloroethene	50.000	51.524	-3.0	122	0.00
22 T	Diisopropyl ether	50.000	54.667	-9.3	124	0.00
23 T	Vinyl Acetate	250.000	269.297	-7.7	120	0.00
24 P	1,1-Dichloroethane	50.000	52.243	-4.5	124	0.00
25 T	2-Butanone	250.000	232.966	6.8	106	0.00
26 T	2,2-Dichloropropane	50.000	53.560	-7.1	121	0.00
27 T	cis-1,2-Dichloroethene	50.000	52.669	-5.3	120	0.00
28 T	Bromochloromethane	50.000	49.998	0.0	116	0.00
29 T	Tetrahydrofuran	250.000	234.413	6.2	106	0.00
30 C	Chloroform	50.000	50.631	-1.3#	121	0.00
31 T	Cyclohexane	50.000	49.307	1.4	122	0.00
32 T	1,1,1-Trichloroethane	50.000	50.110	-0.2	119	0.00
33 S	1,2-Dichloroethane-d4	50.000	44.731	10.5	102	0.00
34 I	1,4-Difluorobenzene	50.000	50.000	0.0	111	0.00
35 S	Dibromofluoromethane	50.000	46.365	7.3	101	0.00
36 T	1,1-Dichloropropene	50.000	55.039	-10.1	121	0.00
37 T	Ethyl Acetate	50.000	45.964	8.1	111	0.00
38 T	Carbon Tetrachloride	50.000	55.731	-11.5	123	0.00
39 T	Methylcyclohexane	50.000	59.791	-19.6	125	0.00
40 TM	Benzene	50.000	55.427	-10.9	123	0.00
41 T	Methacrylonitrile	50.000	51.247	-2.5	112	0.00
42 TM	1,2-Dichloroethane	50.000	52.966	-5.9	123	0.00
43 T	Isopropyl Acetate	50.000	50.562	-1.1	113	0.00
44 TM	Trichloroethene	50.000	52.800	-5.6	123	0.00
45 C	1,2-Dichloropropane	50.000	54.783	-9.6#	126	0.00
46 T	Dibromomethane	50.000	51.680	-3.4	116	0.00
47 T	Bromodichloromethane	50.000	54.354	-8.7	121	0.00
48 T	Methyl methacrylate	50.000	53.062	-6.1	111	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN010925\
 Data File : VN085401.D
 Acq On : 09 Jan 2025 11:45
 Operator : JC\MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_N
 LabSampleId :
 VSTDCCC050

Quant Time: Jan 10 00:32:25 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N122724W.M
 Quant Title : SW846 8260
 QLast Update : Sat Dec 28 01:36:16 2024
 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	851.288	14.9	86	0.02
50 S	Toluene-d8	50.000	45.422	9.2	99	0.00
51 T	4-Methyl-2-Pentanone	250.000	246.365	1.5	106	0.00
52 CM	Toluene	50.000	56.025	-12.0#	121	0.00
53 T	t-1,3-Dichloropropene	50.000	56.347	-12.7	118	0.00
54 T	cis-1,3-Dichloropropene	50.000	55.888	-11.8	120	0.00
55 T	1,1,2-Trichloroethane	50.000	51.993	-4.0	117	0.00
56 T	Ethyl methacrylate	50.000	56.649	-13.3	113	0.00
57 T	1,3-Dichloropropane	50.000	53.922	-7.8	118	0.00
58 T	2-Chloroethyl Vinyl ether	250.000	265.718	-6.3	107	0.00
59 T	2-Hexanone	250.000	245.210	1.9	103	0.00
60 T	Dibromochloromethane	50.000	55.137	-10.3	115	0.00
61 T	1,2-Dibromoethane	50.000	52.447	-4.9	114	0.00
62 S	4-Bromofluorobenzene	50.000	46.235	7.5	97	0.00
63 I	Chlorobenzene-d5	50.000	50.000	0.0	111	0.00
64 T	Tetrachloroethene	50.000	55.456	-10.9	124	0.00
65 PM	Chlorobenzene	50.000	52.090	-4.2	119	0.00
66 T	1,1,1,2-Tetrachloroethane	50.000	53.538	-7.1	118	0.00
67 C	Ethyl Benzene	50.000	56.106	-12.2#	119	0.00
68 T	m/p-Xylenes	100.000	116.723	-16.7	120	0.00
69 T	o-Xylene	50.000	55.934	-11.9	114	0.00
70 T	Styrene	50.000	58.373	-16.7	116	0.00
71 P	Bromoform	50.000	53.040	-6.1	112	0.00
72 I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	107	0.00
73 T	Isopropylbenzene	50.000	56.026	-12.1	116	0.00
74 T	N-amyl acetate	50.000	50.968	-1.9	104	0.00
75 P	1,1,2,2-Tetrachloroethane	50.000	47.834	4.3	111	0.00
76 T	1,2,3-Trichloropropane	50.000	51.873	-3.7	125	0.00
77 T	Bromobenzene	50.000	51.041	-2.1	116	0.00
78 T	n-propylbenzene	50.000	57.568	-15.1	118	0.00
79 T	2-Chlorotoluene	50.000	53.829	-7.7	116	0.00
80 T	1,3,5-Trimethylbenzene	50.000	57.009	-14.0	116	0.00
81 T	trans-1,4-Dichloro-2-butene	50.000	48.045	3.9	100	0.00
82 T	4-Chlorotoluene	50.000	53.589	-7.2	116	0.00
83 T	tert-Butylbenzene	50.000	55.320	-10.6	115	0.00
84 T	1,2,4-Trimethylbenzene	50.000	58.091	-16.2	116	0.00
85 T	sec-Butylbenzene	50.000	57.100	-14.2	115	0.00
86 T	p-Isopropyltoluene	50.000	52.634	-5.3	115	0.00
87 T	1,3-Dichlorobenzene	50.000	52.338	-4.7	115	0.00
88 T	1,4-Dichlorobenzene	50.000	50.789	-1.6	115	0.00
89 T	n-Butylbenzene	50.000	57.540	-15.1	116	0.00
90 T	Hexachloroethane	50.000	53.726	-7.5	111	0.00
91 T	1,2-Dichlorobenzene	50.000	52.684	-5.4	115	0.00
92 T	1,2-Dibromo-3-Chloropropane	50.000	48.190	3.6	104	0.00
93 T	1,2,4-Trichlorobenzene	50.000	54.872	-9.7	119	0.00
94 T	Hexachlorobutadiene	50.000	51.395	-2.8	124	0.00
95 T	Naphthalene	50.000	46.101	7.8	102	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN010925\
Data File : VN085401.D
Acq On : 09 Jan 2025 11:45
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC050

Quant Time: Jan 10 00:32:25 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N122724W.M
Quant Title : SW846 8260
QLast Update : Sat Dec 28 01:36:16 2024
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	52.782	-5.6	117	0.00

(#) = Out of Range

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



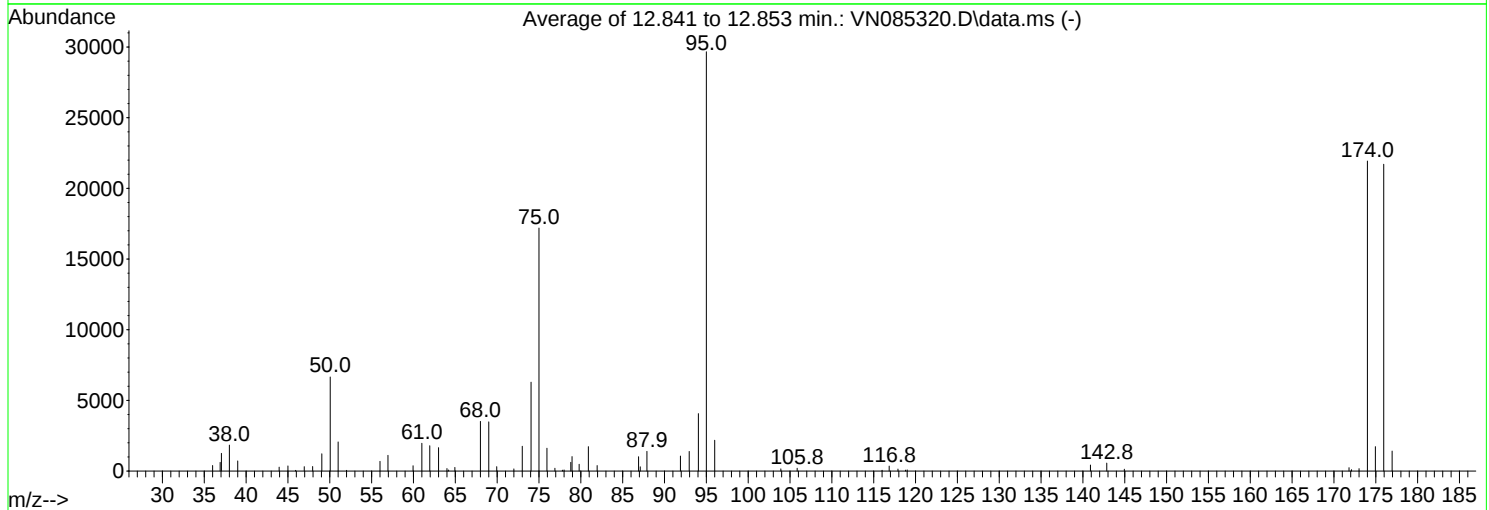
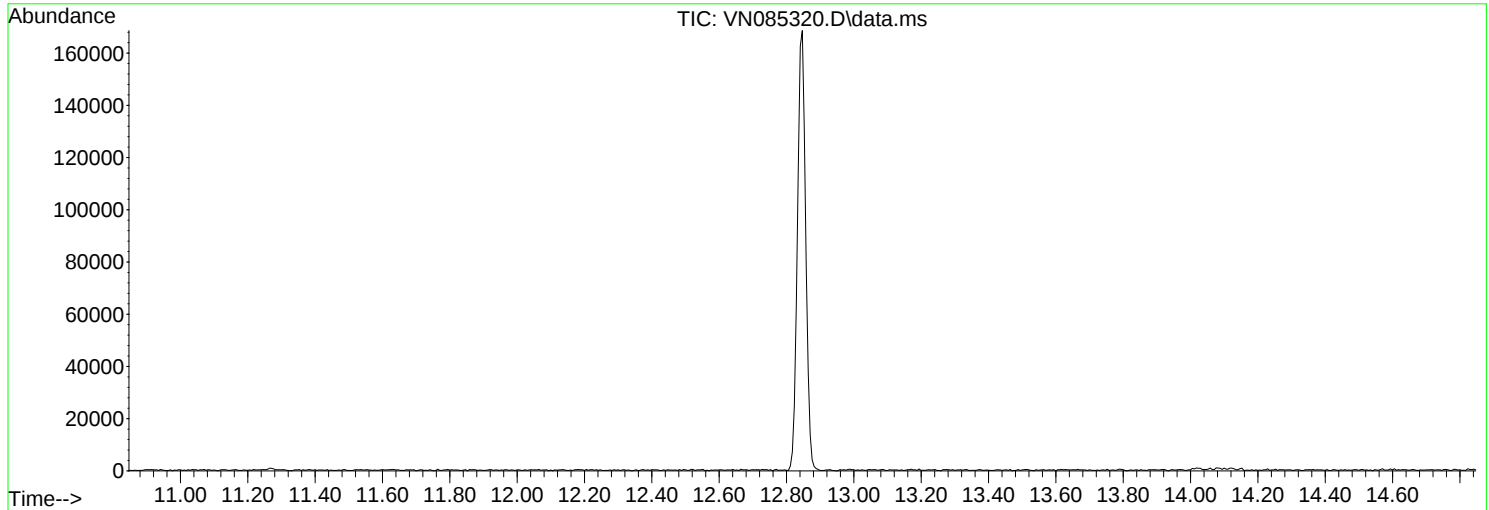
QC SAMPLE DATA

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN122724\
Data File : VN085320.D
Acq On : 27 Dec 2024 09:52
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\82N122724W.M
Title : SW846 8260
Last Update : Sat Dec 28 01:36:16 2024



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

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	22.4	6656	PASS
75	95	30	60	58.0	17193	PASS
95	95	100	100	100.0	29667	PASS
96	95	5	9	7.3	2180	PASS
173	174	0.00	2	0.8	173	PASS
174	95	50	100	73.9	21933	PASS
175	174	5	9	7.9	1730	PASS
176	174	95	101	99.0	21707	PASS
177	176	5	9	6.5	1416	PASS

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.00	395	50.05	6656	64.95	258	78.00	82
36.90	615	51.00	2063	68.00	3516	78.80	618
37.05	1253	52.00	51	69.00	3482	78.95	1025
38.00	1836	56.00	691	69.95	311	79.80	481
39.00	716	56.95	1115	72.00	154	80.90	1729
43.95	280	59.95	376	73.00	1757	81.95	392
45.00	363	61.00	1966	74.05	6288	86.90	1016
45.90	51	61.95	1793	75.00	17193	87.10	304
46.95	311	63.00	1658	75.95	1618	87.90	1397
47.95	322	64.00	180	76.90	201	91.90	1064
49.05	1223	64.20	74	77.80	65	92.95	1389

Average of 12.841 to 12.853 min.: VN085320.D\data.ms

BFB

Modified:subtracted

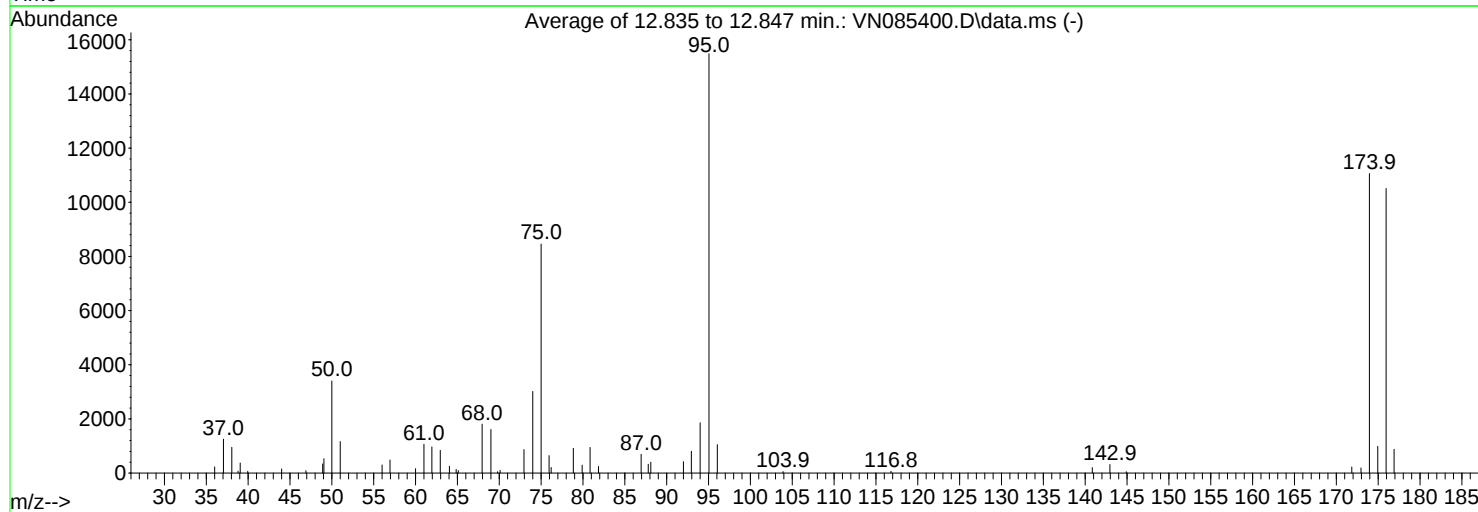
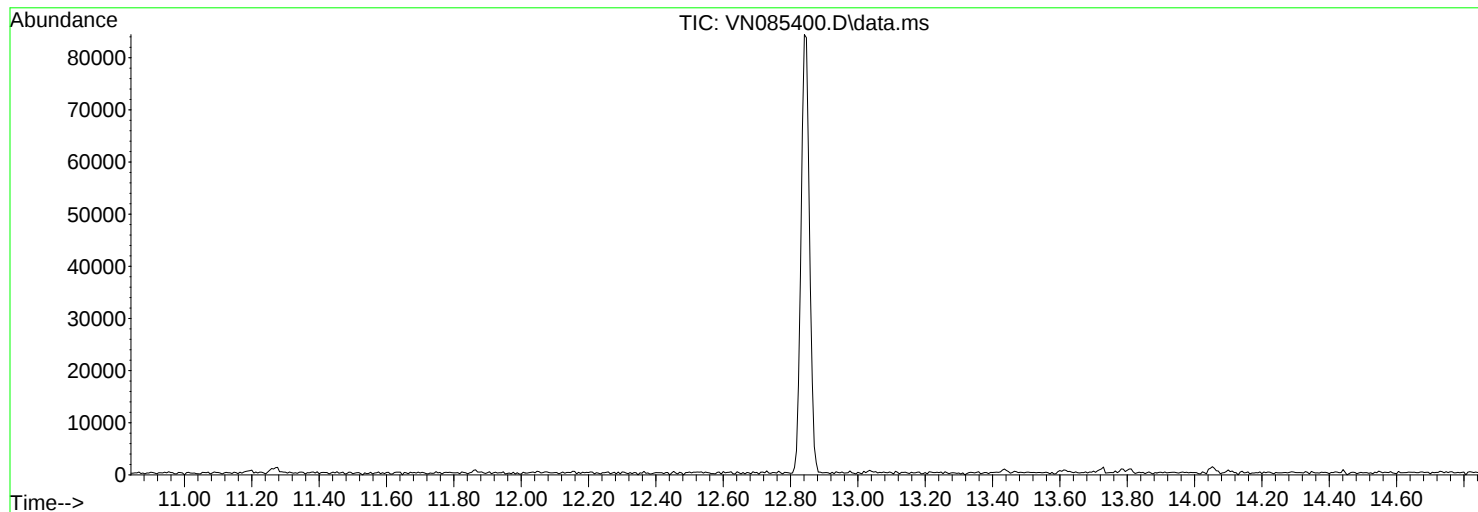
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
94.05	4066	142.85	563				
95.00	29667	144.95	133				
96.00	2180	171.80	240				
103.90	155	172.10	100				
105.85	202	173.00	173				
116.00	57	174.00	21933				
116.85	353	174.95	1730				
117.90	143	175.95	21707				
118.80	68	176.95	1416				
119.00	86						
140.90	427						

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN010925\
Data File : VN085400.D
Acq On : 09 Jan 2025 09:43
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\82N122724W.M
Title : SW846 8260
Last Update : Sat Dec 28 01:36:16 2024



AutoFind: Scans 1850, 1851, 1852; Background Corrected with Scan 1843

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	22.0	3399	PASS
75	95	30	60	54.6	8459	PASS
95	95	100	100	100.0	15485	PASS
96	95	5	9	6.8	1049	PASS
173	174	0.00	2	1.7	190	PASS
174	95	50	100	71.4	11061	PASS
175	174	5	9	8.9	984	PASS
176	174	95	101	95.0	10511	PASS
177	176	5	9	8.3	877	PASS

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.00	228	51.00	1163	69.00	1609	81.85	244
37.05	1252	56.00	302	69.80	52	86.95	695
38.05	952	56.95	483	70.10	101	87.80	325
38.80	71	60.00	161	72.95	869	88.10	405
39.05	373	61.00	1066	74.00	3015	92.00	422
39.95	68	61.95	966	75.00	8459	92.95	806
44.00	155	62.95	841	75.95	645	94.00	1859
46.90	91	64.05	250	76.20	208	95.05	15485
48.90	338	64.85	139	78.85	914	96.05	1049
49.05	532	65.10	94	79.90	295	103.90	56
50.00	3399	67.95	1810	80.85	947	116.80	69

Average of 12.835 to 12.847 min.: VN085400.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
140.85	202						
142.95	316						
144.90	54						
171.85	224						
172.95	190						
173.95	11061						
174.95	984						
175.95	10511						
176.90	877						

Report of Analysis

Client:	Garden State Laboratories, Inc.		Date Collected:	
Project:	Waste Water 2025		Date Received:	
Client Sample ID:	VN0109WBL01		SDG No.:	Q1038
Lab Sample ID:	VN0109WBL01		Matrix:	Water
Analytical Method:	SW8260		% Solid:	0
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group2
GC Column:	RXI-624	ID : 0.25	Level :	LOW
Prep Method :				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085403.D	1		01/09/25 12:43	VN010925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	0.21	U	0.21	1.00	ug/L
74-87-3	Chloromethane	0.35	U	0.35	1.00	ug/L
75-01-4	Vinyl Chloride	0.34	U	0.34	1.00	ug/L
74-83-9	Bromomethane	1.40	U	1.40	5.00	ug/L
75-00-3	Chloroethane	0.56	U	0.56	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.34	U	0.34	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	0.26	U	0.26	1.00	ug/L
67-64-1	Acetone	1.40	U	1.40	5.00	ug/L
75-15-0	Carbon Disulfide	0.32	U	0.32	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	0.60	U	0.60	1.00	ug/L
75-09-2	Methylene Chloride	0.32	U	0.32	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.25	U	0.25	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.23	U	0.23	1.00	ug/L
110-82-7	Cyclohexane	1.60	U	1.60	5.00	ug/L
78-93-3	2-Butanone	1.30	U	1.30	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	0.25	U	0.25	1.00	ug/L
74-97-5	Bromochloromethane	0.18	U	0.18	1.00	ug/L
67-66-3	Chloroform	0.26	U	0.26	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.19	U	0.19	1.00	ug/L
108-87-2	Methylcyclohexane	0.19	U	0.19	1.00	ug/L
71-43-2	Benzene	0.16	U	0.16	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.24	U	0.24	1.00	ug/L
79-01-6	Trichloroethene	0.32	U	0.32	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.19	U	0.19	1.00	ug/L
75-27-4	Bromodichloromethane	0.24	U	0.24	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	0.75	U	0.75	5.00	ug/L
108-88-3	Toluene	0.18	U	0.18	1.00	ug/L

Report of Analysis

Client:	Garden State Laboratories, Inc.		Date Collected:	
Project:	Waste Water 2025		Date Received:	
Client Sample ID:	VN0109WBL01		SDG No.:	Q1038
Lab Sample ID:	VN0109WBL01		Matrix:	Water
Analytical Method:	SW8260		% Solid:	0
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group2
GC Column:	RXI-624	ID : 0.25	Level :	LOW
Prep Method :				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085403.D	1		01/09/25 12:43	VN010925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	0.21	U	0.21	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.18	U	0.18	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	1.10	U	1.10	5.00	ug/L
124-48-1	Dibromochloromethane	0.18	U	0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	0.16	U	0.16	1.00	ug/L
127-18-4	Tetrachloroethene	0.25	U	0.25	1.00	ug/L
108-90-7	Chlorobenzene	0.13	U	0.13	1.00	ug/L
100-41-4	Ethyl Benzene	0.16	U	0.16	1.00	ug/L
179601-23-1	m/p-Xylenes	0.31	U	0.31	2.00	ug/L
95-47-6	o-Xylene	0.14	U	0.14	1.00	ug/L
100-42-5	Styrene	0.16	U	0.16	1.00	ug/L
75-25-2	Bromoform	0.21	U	0.21	1.00	ug/L
98-82-8	Isopropylbenzene	0.13	U	0.13	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.27	U	0.27	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.24	U	0.24	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.27	U	0.27	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.19	U	0.19	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.46	U	0.46	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.42	U	0.42	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.51	U	0.51	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	57.9		74 - 125	116%	SPK: 50
1868-53-7	Dibromofluoromethane	54.0		75 - 124	108%	SPK: 50
2037-26-5	Toluene-d8	52.2		86 - 113	104%	SPK: 50
460-00-4	4-Bromofluorobenzene	47.3		77 - 121	95%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	182000	8.218			
540-36-3	1,4-Difluorobenzene	342000	9.094			
3114-55-4	Chlorobenzene-d5	293000	11.859			
3855-82-1	1,4-Dichlorobenzene-d4	119000	13.788			

Report of Analysis

Client:	Garden State Laboratories, Inc.	Date Collected:	
Project:	Waste Water 2025	Date Received:	
Client Sample ID:	VN0109WBL01	SDG No.:	Q1038
Lab Sample ID:	VN0109WBL01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group2
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085403.D	1		01/09/25 12:43	VN010925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
------------	-----------	-------	-----------	-----	------------	-------

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\VN010925\
Data File : VN085403.D
Acq On : 09 Jan 2025 12:43
Operator : JC\MD
Sample : VN0109WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0109WBL01

Quant Time: Jan 10 00:16:47 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N122724W.M
Quant Title : SW846 8260
QLast Update : Sat Dec 28 01:36:16 2024
Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.218	168	182405	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.094	114	342003	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.859	117	292931	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	119086	50.000	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.577	65	150556	57.870	ug/l	0.00
Spiked Amount	50.000	Range 74 - 125	Recovery	=	115.740%	
35) Dibromofluoromethane	8.165	113	115178	53.983	ug/l	0.00
Spiked Amount	50.000	Range 75 - 124	Recovery	=	107.960%	
50) Toluene-d8	10.559	98	408966	52.235	ug/l	0.00
Spiked Amount	50.000	Range 86 - 113	Recovery	=	104.460%	
62) 4-Bromofluorobenzene	12.847	95	123089	47.338	ug/l	0.00
Spiked Amount	50.000	Range 77 - 121	Recovery	=	94.680%	

Target Compounds

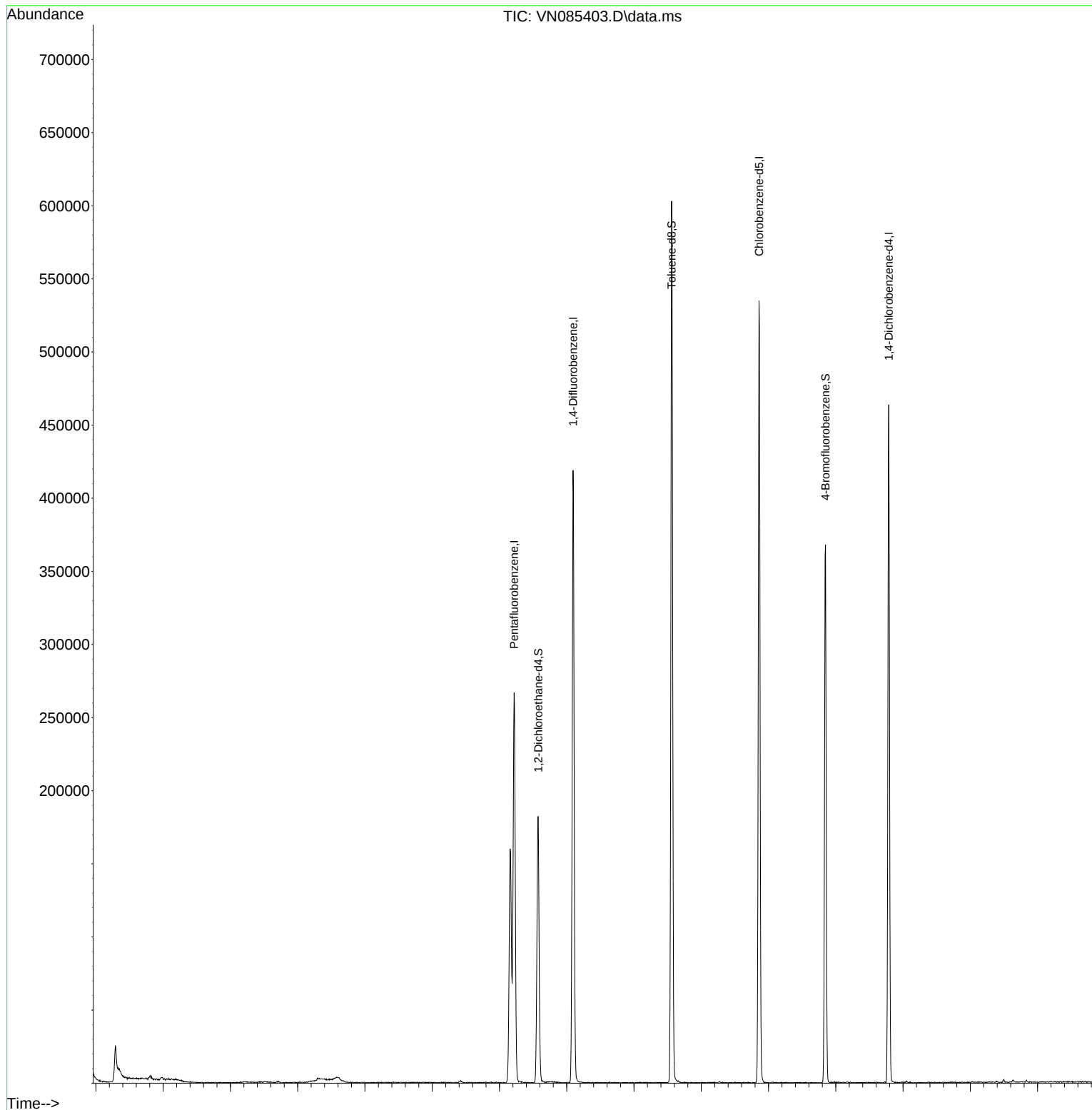
Qvalue

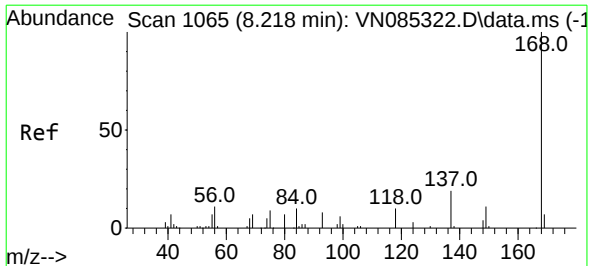
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN010925\
Data File : VN085403.D
Acq On : 09 Jan 2025 12:43
Operator : JC\MD
Sample : VN0109WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0109WBL01

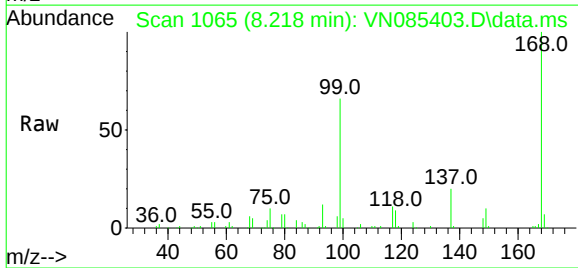
Quant Time: Jan 10 00:16:47 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N122724W.M
Quant Title : SW846 8260
QLast Update : Sat Dec 28 01:36:16 2024
Response via : Initial Calibration



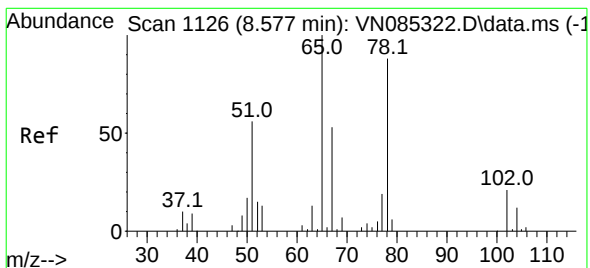
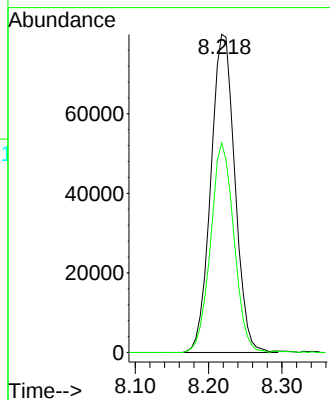
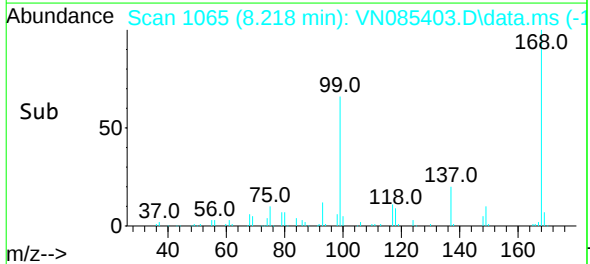


#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.218 min Scan# 1065
Delta R.T. -0.000 min
Lab File: VN085403.D
Acq: 09 Jan 2025 12:43

Instrument :
MSVOA_N
ClientSampleId :
VN0109WBL01

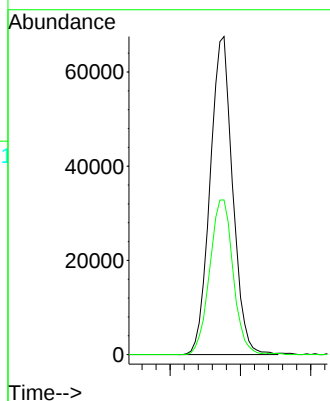
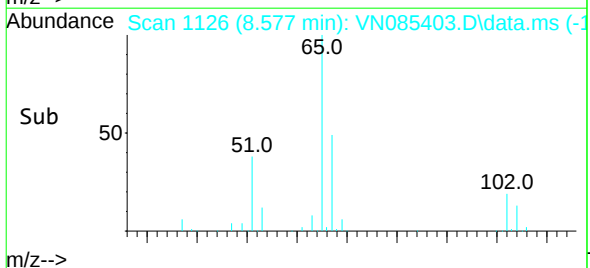
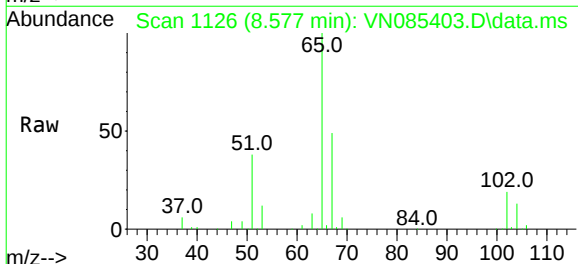


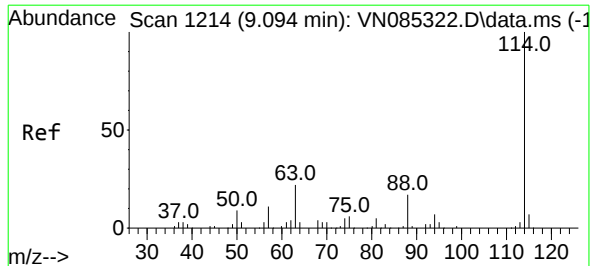
Tgt Ion:168 Resp: 182405
Ion Ratio Lower Upper
168 100
99 65.9 51.0 76.4



#33
1,2-Dichloroethane-d4
Concen: 57.870 ug/l
RT: 8.577 min Scan# 1126
Delta R.T. 0.000 min
Lab File: VN085403.D
Acq: 09 Jan 2025 12:43

Tgt Ion: 65 Resp: 150556
Ion Ratio Lower Upper
65 100
67 50.6 0.0 104.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.094 min Scan# 1214

Delta R.T. 0.000 min

Lab File: VN085403.D

Acq: 09 Jan 2025 12:43

Instrument :

MSVOA_N

ClientSampleId :

VN0109WBL01

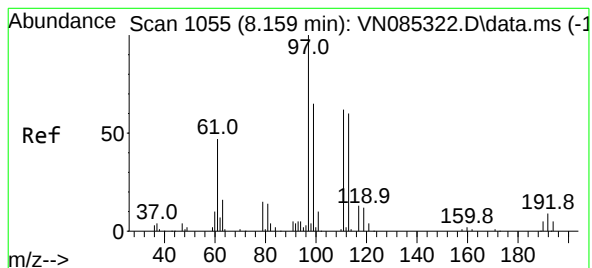
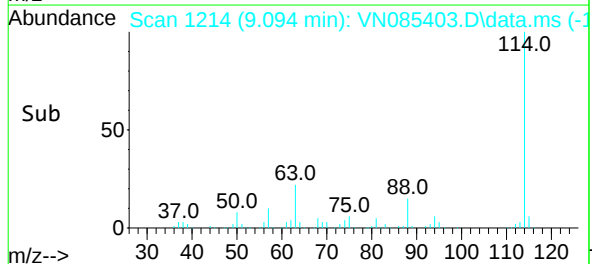
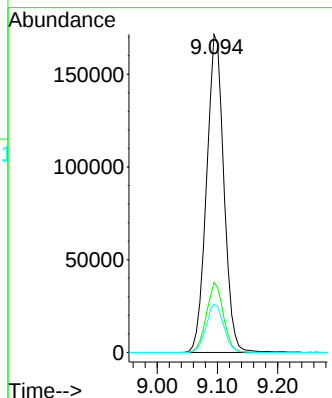
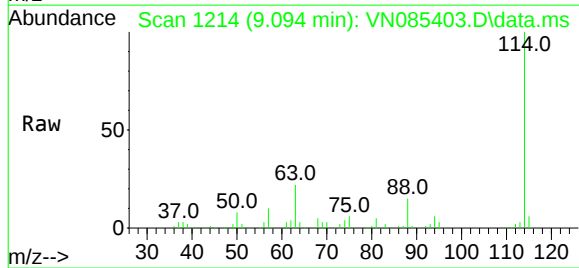
Tgt Ion:114 Resp: 342003

Ion Ratio Lower Upper

114 100

63 22.0 0.0 43.4

88 15.2 0.0 33.6



#35

Dibromofluoromethane

Concen: 53.983 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. 0.006 min

Lab File: VN085403.D

Acq: 09 Jan 2025 12:43

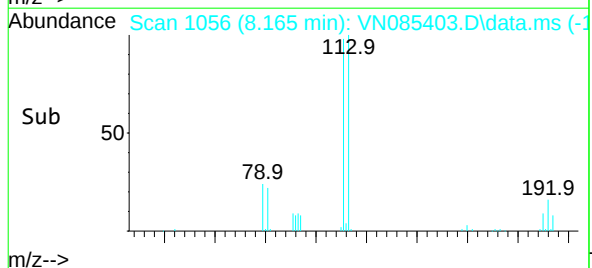
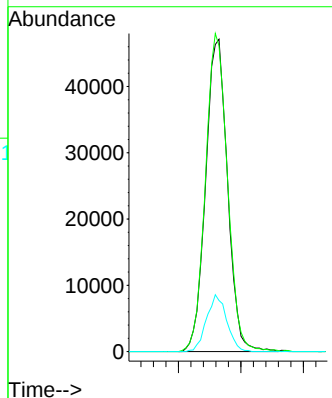
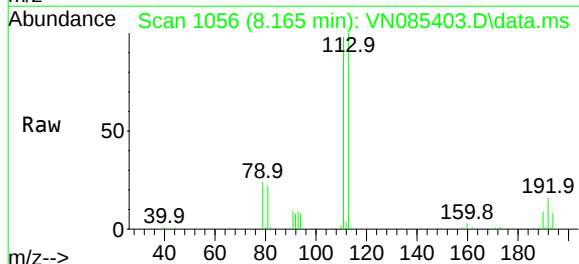
Tgt Ion:113 Resp: 115178

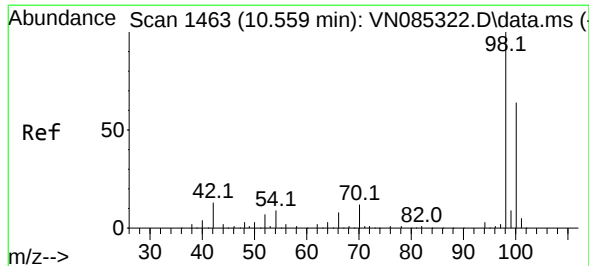
Ion Ratio Lower Upper

113 100

111 101.9 80.5 120.7

192 16.8 12.9 19.3





#50

Toluene-d8

Concen: 52.235 ug/l

RT: 10.559 min Scan# 1463

Delta R.T. 0.000 min

Lab File: VN085403.D

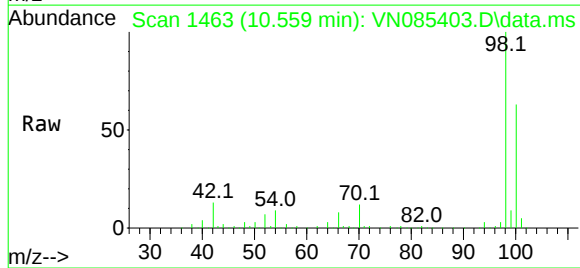
Acq: 09 Jan 2025 12:43

Instrument :

MSVOA_N

ClientSampleId :

VN0109WBL01

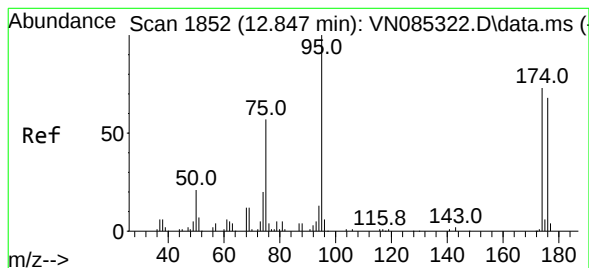
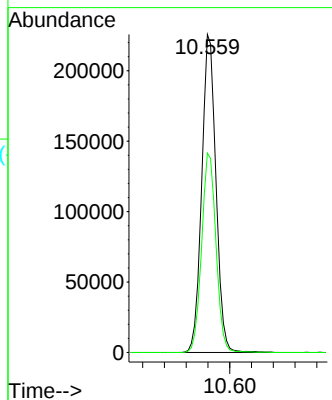
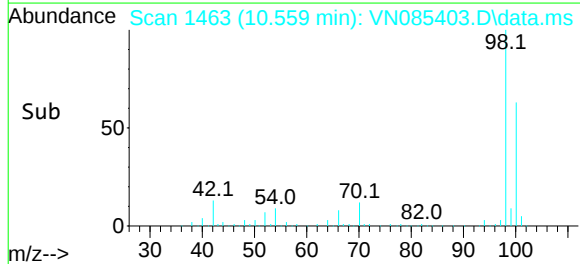


Tgt Ion: 98 Resp: 408966

Ion Ratio Lower Upper

98 100

100 63.4 51.5 77.3



#62

4-Bromofluorobenzene

Concen: 47.338 ug/l

RT: 12.847 min Scan# 1852

Delta R.T. 0.000 min

Lab File: VN085403.D

Acq: 09 Jan 2025 12:43

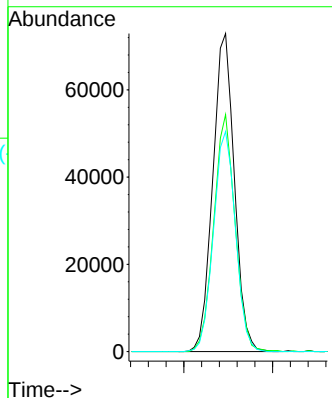
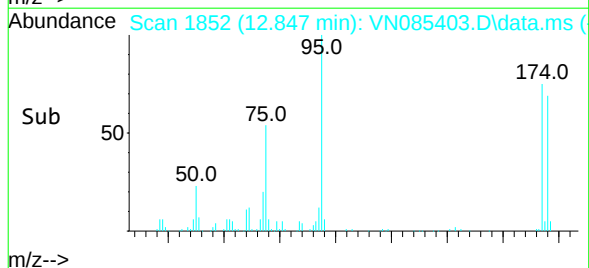
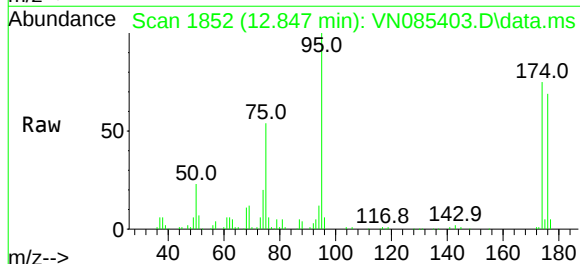
Tgt Ion: 95 Resp: 123089

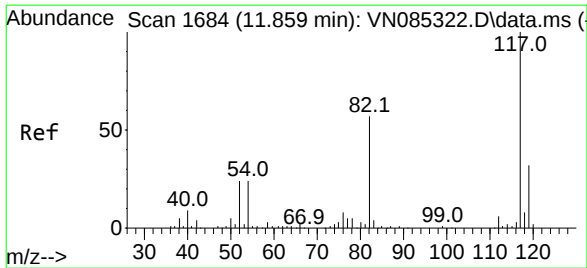
Ion Ratio Lower Upper

95 100

174 73.7 0.0 143.2

176 70.5 0.0 135.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.859 min Scan# 16

Delta R.T. 0.000 min

Lab File: VN085403.D

Acq: 09 Jan 2025 12:43

Instrument :

MSVOA_N

ClientSampleId :

VN0109WBL01

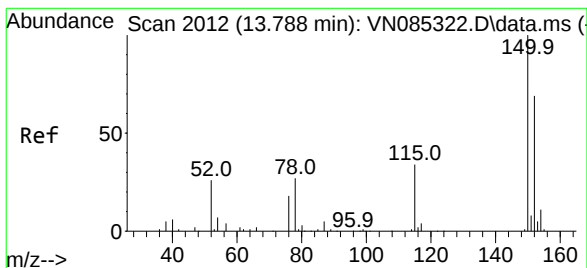
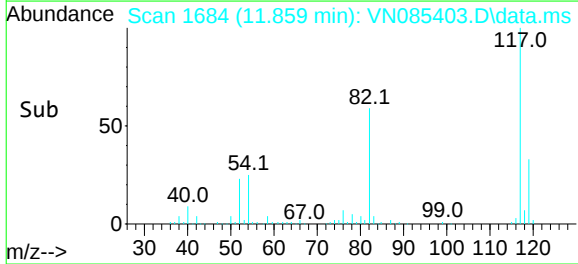
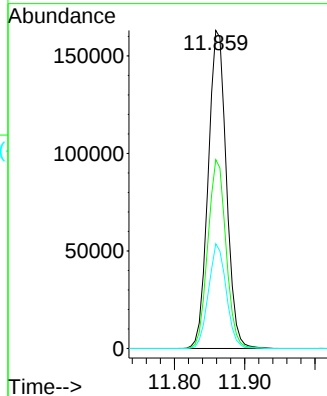
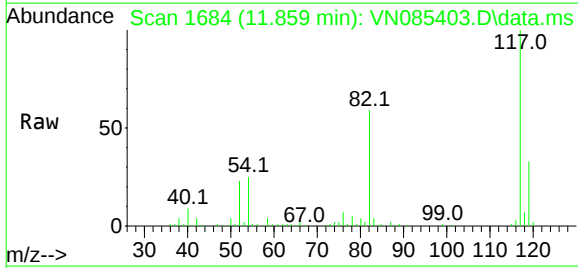
Tgt Ion:117 Resp: 292931

Ion Ratio Lower Upper

117 100

82 59.4 45.7 68.5

119 32.9 25.8 38.8



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.788 min Scan# 2012

Delta R.T. 0.000 min

Lab File: VN085403.D

Acq: 09 Jan 2025 12:43

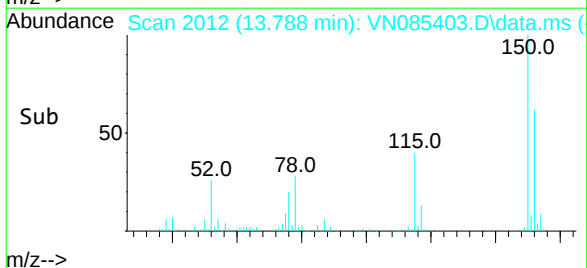
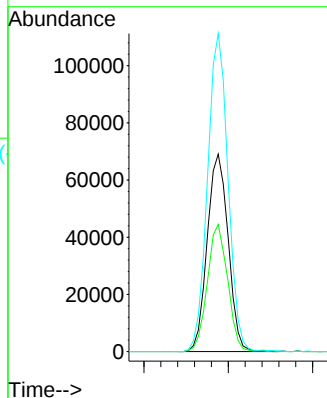
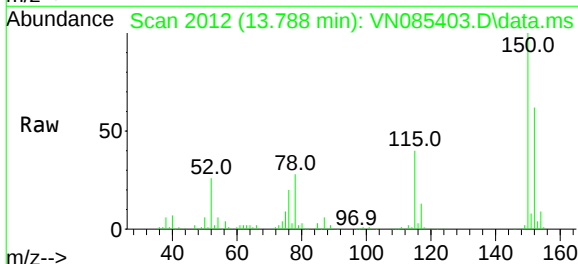
Tgt Ion:152 Resp: 119086

Ion Ratio Lower Upper

152 100

115 62.4 30.4 91.3

150 157.1 0.0 345.0



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN010925\
Data File : VN085403.D
Acq On : 09 Jan 2025 12:43
Operator : JC\MD
Sample : VN0109WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0109WBL01

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\82N122724W.M

Title : SW846 8260

Signal : TIC: VN085403.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.289	49	57	63	rBV	24190	56944	5.15%	0.988%
2	8.159	1043	1055	1060	rBV	159957	387766	35.09%	6.728%
3	8.218	1060	1065	1076	rVB	266148	587745	53.18%	10.198%
4	8.577	1114	1126	1135	rBV	181998	409681	37.07%	7.108%
5	9.094	1205	1214	1231	rBV	418695	834348	75.50%	14.476%
6	10.559	1453	1463	1479	rBV	602939	1105130	100.00%	19.175%
7	11.859	1676	1684	1698	rVB	534720	963393	87.17%	16.715%
8	12.847	1844	1852	1862	rVB	367754	633721	57.34%	10.995%
9	13.788	2005	2012	2020	rBV	463763	784746	71.01%	13.616%

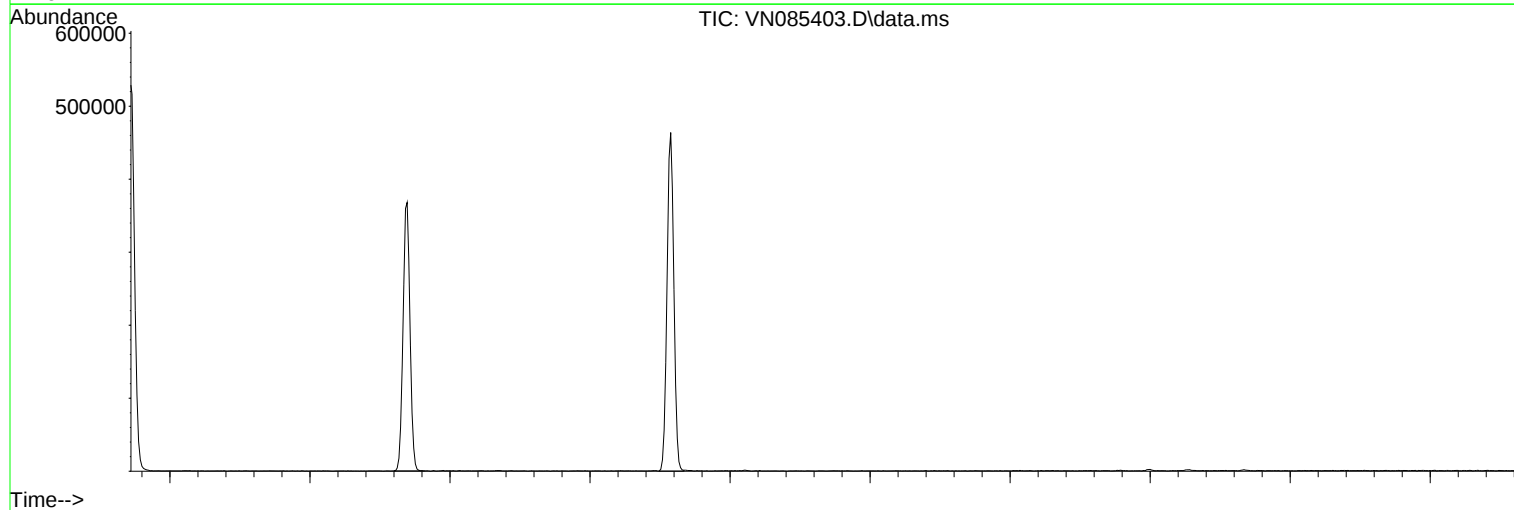
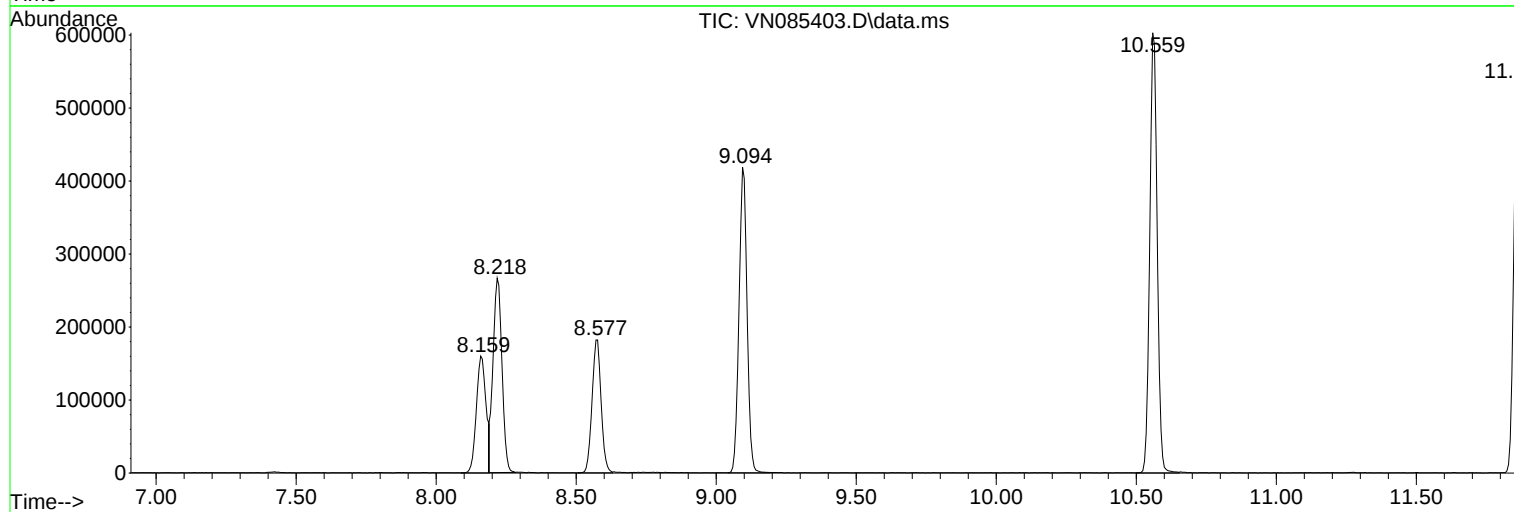
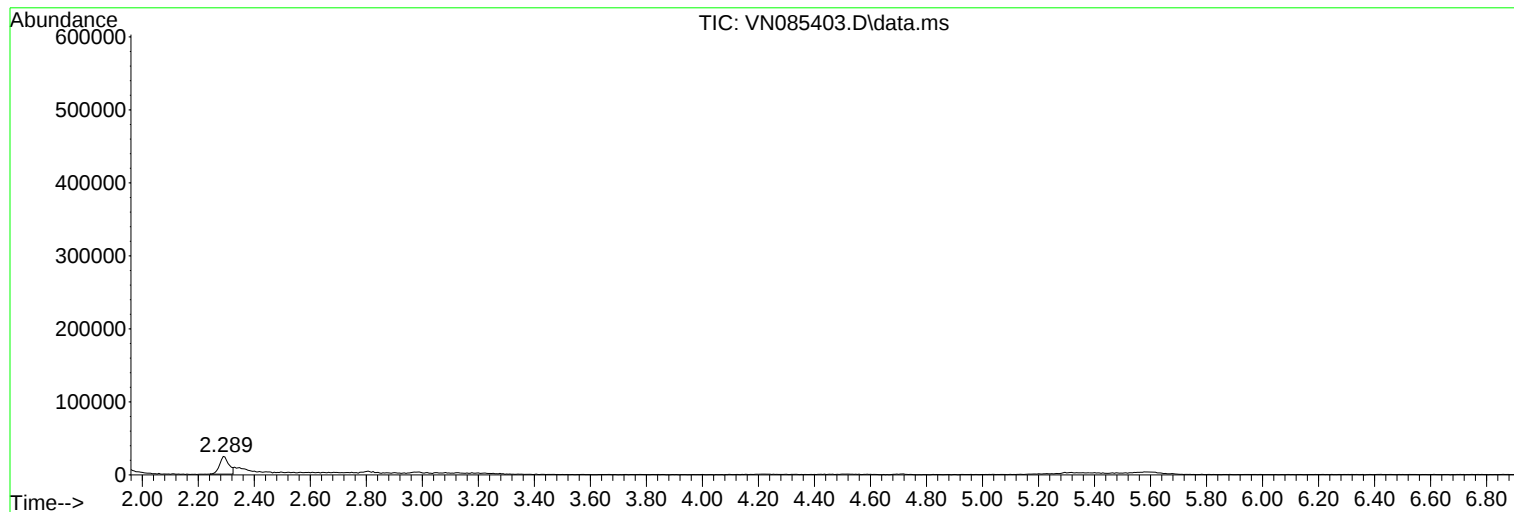
Sum of corrected areas: 5763474

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN010925\
Data File : VN085403.D
Acq On : 09 Jan 2025 12:43
Operator : JC\MD
Sample : VN0109WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0109WBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N122724W.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN010925\
Data File : VN085403.D
Acq On : 09 Jan 2025 12:43
Operator : JC\MD
Sample : VN0109WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0109WBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N122724W.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\VN010925\
Data File : VN085403.D
Acq On : 09 Jan 2025 12:43
Operator : JC\MD
Sample : VN0109WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0109WBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N122724W.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:	Garden State Laboratories, Inc.	Date Collected:	
Project:	Waste Water 2025	Date Received:	
Client Sample ID:	VN0109WBS01	SDG No.:	Q1038
Lab Sample ID:	VN0109WBS01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group2
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085404.D	1		01/09/25 13:07	VN010925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	20.1		0.21	1.00	ug/L
74-87-3	Chloromethane	18.3		0.35	1.00	ug/L
75-01-4	Vinyl Chloride	17.4		0.34	1.00	ug/L
74-83-9	Bromomethane	16.4		1.40	5.00	ug/L
75-00-3	Chloroethane	18.3		0.56	1.00	ug/L
75-69-4	Trichlorofluoromethane	19.3		0.34	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	19.5		0.25	1.00	ug/L
75-35-4	1,1-Dichloroethene	19.5		0.26	1.00	ug/L
67-64-1	Acetone	97.3		1.40	5.00	ug/L
75-15-0	Carbon Disulfide	19.0		0.32	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	19.0		0.16	1.00	ug/L
79-20-9	Methyl Acetate	20.0		0.60	1.00	ug/L
75-09-2	Methylene Chloride	20.1		0.32	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	19.2		0.25	1.00	ug/L
75-34-3	1,1-Dichloroethane	19.9		0.23	1.00	ug/L
110-82-7	Cyclohexane	18.8		1.60	5.00	ug/L
78-93-3	2-Butanone	94.2		1.30	5.00	ug/L
56-23-5	Carbon Tetrachloride	20.6		0.25	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	19.4		0.25	1.00	ug/L
74-97-5	Bromochloromethane	20.5		0.18	1.00	ug/L
67-66-3	Chloroform	19.3		0.26	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	19.1		0.19	1.00	ug/L
108-87-2	Methylcyclohexane	20.1		0.19	1.00	ug/L
71-43-2	Benzene	20.8		0.16	1.00	ug/L
107-06-2	1,2-Dichloroethane	20.3		0.24	1.00	ug/L
79-01-6	Trichloroethene	19.4		0.32	1.00	ug/L
78-87-5	1,2-Dichloropropane	20.2		0.19	1.00	ug/L
75-27-4	Bromodichloromethane	20.4		0.24	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	100		0.75	5.00	ug/L
108-88-3	Toluene	20.8		0.18	1.00	ug/L

Report of Analysis

Client:	Garden State Laboratories, Inc.		Date Collected:	
Project:	Waste Water 2025		Date Received:	
Client Sample ID:	VN0109WBS01		SDG No.:	Q1038
Lab Sample ID:	VN0109WBS01		Matrix:	Water
Analytical Method:	SW8260		% Solid:	0
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group2
GC Column:	RXI-624	ID : 0.25	Level :	LOW
Prep Method :				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085404.D	1		01/09/25 13:07	VN010925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	19.6		0.21	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	20.1		0.18	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	19.7		0.21	1.00	ug/L
591-78-6	2-Hexanone	100		1.10	5.00	ug/L
124-48-1	Dibromochloromethane	20.9		0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	20.2		0.16	1.00	ug/L
127-18-4	Tetrachloroethene	20.7		0.25	1.00	ug/L
108-90-7	Chlorobenzene	19.8		0.13	1.00	ug/L
100-41-4	Ethyl Benzene	19.9		0.16	1.00	ug/L
179601-23-1	m/p-Xylenes	43.0		0.31	2.00	ug/L
95-47-6	o-Xylene	20.4		0.14	1.00	ug/L
100-42-5	Styrene	20.5		0.16	1.00	ug/L
75-25-2	Bromoform	20.8		0.21	1.00	ug/L
98-82-8	Isopropylbenzene	20.7		0.13	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	20.5		0.27	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	20.0		0.24	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	19.7		0.27	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	20.5		0.19	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	19.6		0.46	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	18.5		0.42	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	17.9		0.51	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	51.2		74 - 125	102%	SPK: 50
1868-53-7	Dibromofluoromethane	52.7		75 - 124	105%	SPK: 50
2037-26-5	Toluene-d8	50.7		86 - 113	101%	SPK: 50
460-00-4	4-Bromofluorobenzene	50.4		77 - 121	101%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	178000	8.218			
540-36-3	1,4-Difluorobenzene	308000	9.094			
3114-55-4	Chlorobenzene-d5	264000	11.859			
3855-82-1	1,4-Dichlorobenzene-d4	118000	13.788			

Report of Analysis

Client:	Garden State Laboratories, Inc.		Date Collected:	
Project:	Waste Water 2025		Date Received:	
Client Sample ID:	VN0109WBS01		SDG No.:	Q1038
Lab Sample ID:	VN0109WBS01		Matrix:	Water
Analytical Method:	SW8260		% Solid:	0
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group2
GC Column:	RXI-624	ID : 0.25	Level :	LOW
Prep Method :				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085404.D	1		01/09/25 13:07	VN010925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
------------	-----------	-------	-----------	-----	------------	-------

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\VN010925\
 Data File : VN085404.D
 Acq On : 09 Jan 2025 13:07
 Operator : JC\MD
 Sample : VN0109WBS01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0109WBS01

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 01/10/2025
 Supervised By :Semsettin Yesilyurt 01/10/2025

Quant Time: Jan 10 00:17:20 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N122724W.M
 Quant Title : SW846 8260
 QLast Update : Sat Dec 28 01:36:16 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.218	168	177833	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.094	114	308224	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.859	117	264243	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	117530	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.571	65	129789	51.170	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	102.340%
35) Dibromofluoromethane	8.159	113	101301	52.682	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	105.360%
50) Toluene-d8	10.559	98	357769	50.704	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	101.400%
62) 4-Bromofluorobenzene	12.847	95	118118	50.405	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	100.800%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.124	85	48380	20.116	ug/l	98
3) Chloromethane	2.359	50	49570	18.338	ug/l	92
4) Vinyl Chloride	2.512	62	49609	17.353	ug/l	99
5) Bromomethane	2.959	94	30671	16.405	ug/l	94
6) Chloroethane	3.124	64	33121	18.269	ug/l	94
7) Trichlorofluoromethane	3.501	101	72550	19.306	ug/l	98
8) Diethyl Ether	3.953	74	24124	19.388	ug/l	95
9) 1,1,2-Trichlorotrifluo...	4.377	101	41619	19.464	ug/l	97
10) Methyl Iodide	4.589	142	43130	17.430	ug/l	95
11) Tert butyl alcohol	5.512	59	28532	89.833	ug/l #	91
12) 1,1-Dichloroethene	4.342	96	38520	19.492	ug/l	98
13) Acrolein	4.177	56	39151	79.065	ug/l	99
14) Allyl chloride	5.024	41	61875	19.563	ug/l	95
15) Acrylonitrile	5.718	53	97743	97.778	ug/l	98
16) Acetone	4.424	43	81142	97.288	ug/l	100
17) Carbon Disulfide	4.712	76	114513	19.048	ug/l	96
18) Methyl Acetate	5.018	43	50949	19.953	ug/l	98
19) Methyl tert-butyl Ether	5.789	73	121966	18.988	ug/l	99
20) Methylene Chloride	5.277	84	45105	20.106	ug/l	94
21) trans-1,2-Dichloroethene	5.783	96	39694	19.228	ug/l	97
22) Diisopropyl ether	6.659	45	139401	20.453	ug/l	95
23) Vinyl Acetate	6.594	43	485085	98.384	ug/l	100
24) 1,1-Dichloroethane	6.565	63	81525	19.857	ug/l	98
25) 2-Butanone	7.477	43	121891	94.203	ug/l	94
26) 2,2-Dichloropropane	7.483	77	70351	19.558	ug/l	97
27) cis-1,2-Dichloroethene	7.483	96	47063	19.424	ug/l	95
28) Bromochloromethane	7.806	49	39153	20.521	ug/l #	99
29) Tetrahydrofuran	7.836	42	83185	99.804	ug/l	97
30) Chloroform	7.959	83	80917	19.265	ug/l	98
31) Cyclohexane	8.253	56	70633	18.841	ug/l	96
32) 1,1,1-Trichloroethane	8.165	97	71491	19.058	ug/l	98
36) 1,1-Dichloropropene	8.365	75	56881	20.204	ug/l	99
37) Ethyl Acetate	7.553	43	54613	19.516	ug/l	98
38) Carbon Tetrachloride	8.359	117	63221	20.601	ug/l	96
39) Methylcyclohexane	9.594	83	58757	20.115	ug/l	95
40) Benzene	8.600	78	177063	20.801	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN010925\
 Data File : VN085404.D
 Acq On : 09 Jan 2025 13:07
 Operator : JC\MD
 Sample : VN0109WBS01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0109WBS01

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 01/10/2025
 Supervised By :Semsettin Yesilyurt 01/10/2025

Quant Time: Jan 10 00:17:20 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N122724W.M
 Quant Title : SW846 8260
 QLast Update : Sat Dec 28 01:36:16 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.771	41	29875	20.846	ug/l	95
42) 1,2-Dichloroethane	8.665	62	62102	20.349	ug/l	99
43) Isopropyl Acetate	8.683	43	89104	19.338	ug/l	100
44) Trichloroethene	9.347	130	39174	19.439	ug/l	94
45) 1,2-Dichloropropane	9.612	63	43597	20.176	ug/l	100
46) Dibromomethane	9.706	93	29261	19.471	ug/l	98
47) Bromodichloromethane	9.883	83	63776	20.418	ug/l	95
48) Methyl methacrylate	9.677	41	41137	20.575	ug/l	97
49) 1,4-Dioxane	9.688	88	11166	370.151	ug/l #	92
51) 4-Methyl-2-Pentanone	10.441	43	266318	102.850	ug/l	100
52) Toluene	10.624	92	105470	20.809	ug/l	100
53) t-1,3-Dichloropropene	10.829	75	60078	19.559	ug/l	96
54) cis-1,3-Dichloropropene	10.306	75	66805	20.113	ug/l	96
55) 1,1,2-Trichloroethane	11.012	97	37734	19.719	ug/l	92
56) Ethyl methacrylate	10.871	69	55251	19.825	ug/l	98
57) 1,3-Dichloropropane	11.159	76	68555	20.412	ug/l	98
58) 2-Chloroethyl Vinyl ether	10.153	63	114231	84.718	ug/l	98
59) 2-Hexanone	11.188	43	184477	102.685	ug/l	98
60) Dibromochloromethane	11.353	129	45090	20.920	ug/l	99
61) 1,2-Dibromoethane	11.465	107	38322	20.242	ug/l	99
64) Tetrachloroethene	11.100	164	34687	20.717	ug/l	94
65) Chlorobenzene	11.888	112	113309	19.843	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.959	131	38487	20.082	ug/l	99
67) Ethyl Benzene	11.959	91	188697	19.870	ug/l	97
68) m/p-Xylenes	12.065	106	149390	42.986	ug/l	98
69) o-Xylene	12.394	106	68447	20.360	ug/l	99
70) Styrene	12.406	104	111676	20.496	ug/l	99
71) Bromoform	12.571	173	27551	20.756	ug/l #	99
73) Isopropylbenzene	12.688	105	175325	20.744	ug/l	100
74) N-ethyl acetate	12.488	43	73284	20.257	ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.935	83	55249	20.525	ug/l	99
76) 1,2,3-Trichloropropane	12.988	75	39949m	18.202	ug/l	
77) Bromobenzene	12.976	156	41690	19.910	ug/l	98
78) n-propylbenzene	13.029	91	209557	21.271	ug/l	99
79) 2-Chlorotoluene	13.118	91	128492	20.724	ug/l	98
80) 1,3,5-Trimethylbenzene	13.171	105	146441	21.421	ug/l	98
81) trans-1,4-Dichloro-2-b...	12.729	75	16593	18.106	ug/l	96
82) 4-Chlorotoluene	13.218	91	129197	20.690	ug/l	98
83) tert-Butylbenzene	13.435	119	119445	20.170	ug/l	99
84) 1,2,4-Trimethylbenzene	13.476	105	147026	21.599	ug/l	100
85) sec-Butylbenzene	13.612	105	172519	20.988	ug/l	99
86) p-Isopropyltoluene	13.723	119	138121	19.599	ug/l	100
87) 1,3-Dichlorobenzene	13.729	146	75750	19.956	ug/l	98
88) 1,4-Dichlorobenzene	13.806	146	76899	19.722	ug/l	99
89) n-Butylbenzene	14.053	91	116590	19.370	ug/l	99
90) Hexachloroethane	14.329	117	27951	20.745	ug/l	96
91) 1,2-Dichlorobenzene	14.100	146	73997	20.464	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	14.717	75	9385	19.590	ug/l	95
93) 1,2,4-Trichlorobenzene	15.382	180	33326	18.466	ug/l	98
94) Hexachlorobutadiene	15.500	225	16699	18.623	ug/l	98
95) Naphthalene	15.635	128	93854	15.336	ug/l	100
96) 1,2,3-Trichlorobenzene	15.835	180	32321	17.924	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN010925\
Data File : VN085404.D
Acq On : 09 Jan 2025 13:07
Operator : JC\MD
Sample : VN0109WBS01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0109WBS01

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 01/10/2025
Supervised By :Semsettin Yesilyurt 01/10/2025

Quant Time: Jan 10 00:17:20 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N122724W.M
Quant Title : SW846 8260
QLast Update : Sat Dec 28 01:36:16 2024
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

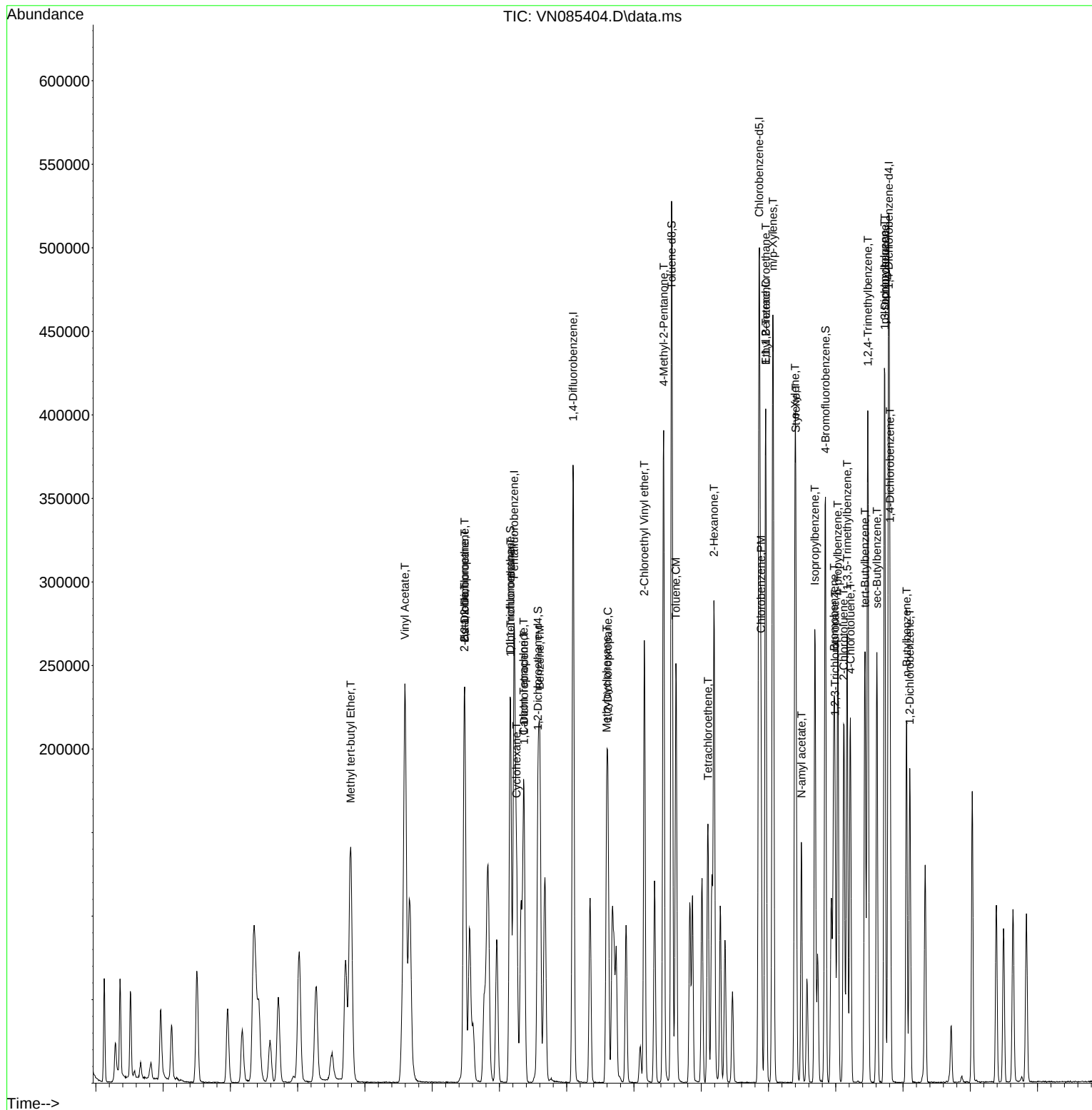
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN010925\
Data File : VN085404.D
Acq On : 09 Jan 2025 13:07
Operator : JC\MD
Sample : VN0109WBS01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0109WBS01

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 01/10/2025
Supervised By :Semsettin Yesilyurt 01/10/2025

Quant Time: Jan 10 00:17:20 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N122724W.M
Quant Title : SW846 8260
QLast Update : Sat Dec 28 01:36:16 2024
Response via : Initial Calibration



Report of Analysis

Client:	Garden State Laboratories, Inc.	Date Collected:	
Project:	Waste Water 2025	Date Received:	
Client Sample ID:	VN0109WBSD01	SDG No.:	Q1038
Lab Sample ID:	VN0109WBSD01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group2
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085405.D	1		01/09/25 13:40	VN010925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	20.3		0.21	1.00	ug/L
74-87-3	Chloromethane	18.2		0.35	1.00	ug/L
75-01-4	Vinyl Chloride	17.5		0.34	1.00	ug/L
74-83-9	Bromomethane	16.7		1.40	5.00	ug/L
75-00-3	Chloroethane	17.3		0.56	1.00	ug/L
75-69-4	Trichlorofluoromethane	19.2		0.34	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	19.6		0.26	1.00	ug/L
67-64-1	Acetone	100		1.40	5.00	ug/L
75-15-0	Carbon Disulfide	19.4		0.32	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	20.1		0.16	1.00	ug/L
79-20-9	Methyl Acetate	21.1		0.60	1.00	ug/L
75-09-2	Methylene Chloride	20.6		0.32	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	19.4		0.25	1.00	ug/L
75-34-3	1,1-Dichloroethane	20.3		0.23	1.00	ug/L
110-82-7	Cyclohexane	18.8		1.60	5.00	ug/L
78-93-3	2-Butanone	100		1.30	5.00	ug/L
56-23-5	Carbon Tetrachloride	20.6		0.25	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	19.7		0.25	1.00	ug/L
74-97-5	Bromochloromethane	20.8		0.18	1.00	ug/L
67-66-3	Chloroform	19.9		0.26	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	19.2		0.19	1.00	ug/L
108-87-2	Methylcyclohexane	19.4		0.19	1.00	ug/L
71-43-2	Benzene	21.2		0.16	1.00	ug/L
107-06-2	1,2-Dichloroethane	21.3		0.24	1.00	ug/L
79-01-6	Trichloroethene	19.3		0.32	1.00	ug/L
78-87-5	1,2-Dichloropropane	21.1		0.19	1.00	ug/L
75-27-4	Bromodichloromethane	20.8		0.24	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	110		0.75	5.00	ug/L
108-88-3	Toluene	21.2		0.18	1.00	ug/L

Report of Analysis

Client:	Garden State Laboratories, Inc.		Date Collected:	
Project:	Waste Water 2025		Date Received:	
Client Sample ID:	VN0109WBSD01		SDG No.:	Q1038
Lab Sample ID:	VN0109WBSD01		Matrix:	Water
Analytical Method:	SW8260		% Solid:	0
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group2
GC Column:	RXI-624	ID : 0.25	Level :	LOW
Prep Method :				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085405.D	1		01/09/25 13:40	VN010925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	20.7		0.21	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	21.1		0.18	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	21.3		0.21	1.00	ug/L
591-78-6	2-Hexanone	110		1.10	5.00	ug/L
124-48-1	Dibromochloromethane	21.7		0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	21.3		0.16	1.00	ug/L
127-18-4	Tetrachloroethene	20.6		0.25	1.00	ug/L
108-90-7	Chlorobenzene	19.9		0.13	1.00	ug/L
100-41-4	Ethyl Benzene	20.0		0.16	1.00	ug/L
179601-23-1	m/p-Xylenes	41.8		0.31	2.00	ug/L
95-47-6	o-Xylene	20.0		0.14	1.00	ug/L
100-42-5	Styrene	20.8		0.16	1.00	ug/L
75-25-2	Bromoform	21.3		0.21	1.00	ug/L
98-82-8	Isopropylbenzene	19.7		0.13	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	20.3		0.27	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	19.7		0.24	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	19.2		0.27	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	19.8		0.19	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	19.2		0.46	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	18.7		0.42	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	18.6		0.51	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	50.9		74 - 125	102%	SPK: 50
1868-53-7	Dibromofluoromethane	50.9		75 - 124	102%	SPK: 50
2037-26-5	Toluene-d8	49.8		86 - 113	100%	SPK: 50
460-00-4	4-Bromofluorobenzene	50.2		77 - 121	100%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	159000	8.218			
540-36-3	1,4-Difluorobenzene	277000	9.1			
3114-55-4	Chlorobenzene-d5	239000	11.859			
3855-82-1	1,4-Dichlorobenzene-d4	110000	13.788			

Report of Analysis

Client:	Garden State Laboratories, Inc.		Date Collected:	
Project:	Waste Water 2025		Date Received:	
Client Sample ID:	VN0109WBSD01		SDG No.:	Q1038
Lab Sample ID:	VN0109WBSD01		Matrix:	Water
Analytical Method:	SW8260		% Solid:	0
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group2
GC Column:	RXI-624	ID : 0.25	Level :	LOW
Prep Method :				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN085405.D	1		01/09/25 13:40	VN010925

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\VN010925\
 Data File : VN085405.D
 Acq On : 09 Jan 2025 13:40
 Operator : JC\MD
 Sample : VN0109WBSD01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0109WBSD01

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 01/10/2025
 Supervised By :Semsettin Yesilyurt 01/10/2025

Quant Time: Jan 10 00:18:35 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N122724W.M
 Quant Title : SW846 8260
 QLast Update : Sat Dec 28 01:36:16 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.218	168	159344	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	277365	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.859	117	239248	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	109836	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.571	65	115789	50.948	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	101.900%
35) Dibromofluoromethane	8.159	113	87989	50.850	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	101.700%
50) Toluene-d8	10.565	98	316168	49.793	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	99.580%
62) 4-Bromofluorobenzene	12.847	95	105832	50.187	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	100.380%

Target Compounds					Qvalue	
2) Dichlorodifluoromethane	2.124	85	43754	20.303	ug/l	94
3) Chloromethane	2.359	50	44130	18.220	ug/l	95
4) Vinyl Chloride	2.512	62	44847	17.508	ug/l	92
5) Bromomethane	2.959	94	27958	16.689	ug/l	94
6) Chloroethane	3.124	64	28082	17.287	ug/l	99
7) Trichlorofluoromethane	3.506	101	64606	19.187	ug/l	96
8) Diethyl Ether	3.959	74	22840	20.486	ug/l	98
9) 1,1,2-Trichlorotrifluo...	4.371	101	37526	19.586	ug/l	97
10) Methyl Iodide	4.589	142	40411	18.226	ug/l	96
11) Tert butyl alcohol	5.512	59	27266	95.808	ug/l	98
12) 1,1-Dichloroethene	4.347	96	34692	19.592	ug/l	96
13) Acrolein	4.177	56	37089	83.592	ug/l	98
14) Allyl chloride	5.018	41	55555	19.603	ug/l	98
15) Acrylonitrile	5.712	53	92508	103.279	ug/l	99
16) Acetone	4.418	43	75890	101.549	ug/l	99
17) Carbon Disulfide	4.712	76	104320	19.366	ug/l	99
18) Methyl Acetate	5.018	43	48196	21.065	ug/l	97
19) Methyl tert-butyl Ether	5.788	73	115935	20.144	ug/l	98
20) Methylene Chloride	5.271	84	41335	20.563	ug/l #	88
21) trans-1,2-Dichloroethene	5.783	96	35956	19.439	ug/l	95
22) Diisopropyl ether	6.665	45	130504	21.370	ug/l	98
23) Vinyl Acetate	6.594	43	465775	105.429	ug/l	98
24) 1,1-Dichloroethane	6.565	63	74642	20.290	ug/l	98
25) 2-Butanone	7.477	43	117511	101.355	ug/l	100
26) 2,2-Dichloropropane	7.482	77	63134	19.589	ug/l	98
27) cis-1,2-Dichloroethene	7.482	96	42816	19.721	ug/l	95
28) Bromochloromethane	7.812	49	35546	20.792	ug/l #	98
29) Tetrahydrofuran	7.835	42	79235	106.096	ug/l	97
30) Chloroform	7.959	83	75078	19.949	ug/l	94
31) Cyclohexane	8.247	56	63267	18.834	ug/l	93
32) 1,1,1-Trichloroethane	8.165	97	64647	19.234	ug/l	95
36) 1,1-Dichloropropene	8.365	75	51703	20.408	ug/l	99
37) Ethyl Acetate	7.553	43	54419	21.610	ug/l	98
38) Carbon Tetrachloride	8.359	117	56916	20.610	ug/l	96
39) Methylcyclohexane	9.594	83	50962	19.387	ug/l	98
40) Benzene	8.600	78	162757	21.248	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN010925\
 Data File : VN085405.D
 Acq On : 09 Jan 2025 13:40
 Operator : JC\MD
 Sample : VN0109WBSD01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0109WBSD01

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 01/10/2025
 Supervised By :Semsettin Yesilyurt 01/10/2025

Quant Time: Jan 10 00:18:35 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N122724W.M
 Quant Title : SW846 8260
 QLast Update : Sat Dec 28 01:36:16 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.777	41	28047	21.748	ug/l	97
42) 1,2-Dichloroethane	8.665	62	58427	21.275	ug/l	98
43) Isopropyl Acetate	8.682	43	86030	20.748	ug/l	99
44) Trichloroethene	9.341	130	34983	19.290	ug/l	98
45) 1,2-Dichloropropane	9.618	63	41092	21.132	ug/l	97
46) Dibromomethane	9.706	93	28309	20.933	ug/l	99
47) Bromodichloromethane	9.882	83	58564	20.836	ug/l #	98
48) Methyl methacrylate	9.676	41	39988	22.226	ug/l	97
49) 1,4-Dioxane	9.694	88	11098	408.828	ug/l #	94
51) 4-Methyl-2-Pentanone	10.441	43	252309	108.280	ug/l	99
52) Toluene	10.623	92	96640	21.189	ug/l	98
53) t-1,3-Dichloropropene	10.829	75	57331	20.741	ug/l	97
54) cis-1,3-Dichloropropene	10.306	75	62983	21.072	ug/l	96
55) 1,1,2-Trichloroethane	11.012	97	36650	21.283	ug/l	97
56) Ethyl methacrylate	10.870	69	52168	20.801	ug/l	96
57) 1,3-Dichloropropane	11.159	76	65378	21.632	ug/l	99
58) 2-Chloroethyl Vinyl ether	10.153	63	109000	89.832	ug/l	97
59) 2-Hexanone	11.194	43	176133	108.948	ug/l	98
60) Dibromochloromethane	11.353	129	42060	21.686	ug/l	97
61) 1,2-Dibromoethane	11.465	107	36234	21.269	ug/l	100
64) Tetrachloroethene	11.100	164	31219	20.593	ug/l	98
65) Chlorobenzene	11.888	112	102665	19.857	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.953	131	35587	20.509	ug/l	99
67) Ethyl Benzene	11.959	91	171624	19.961	ug/l	99
68) m/p-Xylenes	12.070	106	131426	41.768	ug/l	100
69) o-Xylene	12.394	106	60937	20.020	ug/l	96
70) Styrene	12.406	104	102694	20.817	ug/l	100
71) Bromoform	12.576	173	25619	21.317	ug/l #	100
73) Isopropylbenzene	12.694	105	155710	19.714	ug/l	99
74) N-ethyl acetate	12.488	43	70087	20.731	ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.935	83	51139	20.329	ug/l	99
76) 1,2,3-Trichloropropane	12.988	75	39734m	19.372	ug/l	
77) Bromobenzene	12.976	156	37662	19.246	ug/l	98
78) n-propylbenzene	13.029	91	183922	19.977	ug/l	99
79) 2-Chlorotoluene	13.123	91	115716	19.970	ug/l	100
80) 1,3,5-Trimethylbenzene	13.170	105	129791	20.316	ug/l	100
81) trans-1,4-Dichloro-2-b...	12.729	75	16711m	19.512	ug/l	
82) 4-Chlorotoluene	13.217	91	114837	19.678	ug/l	100
83) tert-Butylbenzene	13.435	119	107771	19.474	ug/l	98
84) 1,2,4-Trimethylbenzene	13.476	105	129906	20.421	ug/l	99
85) sec-Butylbenzene	13.611	105	153321	19.959	ug/l	100
86) p-Isopropyltoluene	13.723	119	122993	18.705	ug/l	99
87) 1,3-Dichlorobenzene	13.729	146	70008	19.735	ug/l	99
88) 1,4-Dichlorobenzene	13.806	146	70138	19.248	ug/l	99
89) n-Butylbenzene	14.053	91	107201	19.057	ug/l	98
90) Hexachloroethane	14.329	117	24286	19.287	ug/l	97
91) 1,2-Dichlorobenzene	14.106	146	66975	19.819	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	14.711	75	8591	19.189	ug/l	97
93) 1,2,4-Trichlorobenzene	15.388	180	31498	18.676	ug/l	98
94) Hexachlorobutadiene	15.500	225	14448	17.241	ug/l	94
95) Naphthalene	15.641	128	90598	15.841	ug/l	99
96) 1,2,3-Trichlorobenzene	15.841	180	31371	18.616	ug/l	97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN010925\
Data File : VN085405.D
Acq On : 09 Jan 2025 13:40
Operator : JC\MD
Sample : VN0109WBSD01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0109WBSD01

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 01/10/2025
Supervised By :Semsettin Yesilyurt 01/10/2025

Quant Time: Jan 10 00:18:35 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N122724W.M
Quant Title : SW846 8260
QLast Update : Sat Dec 28 01:36:16 2024
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

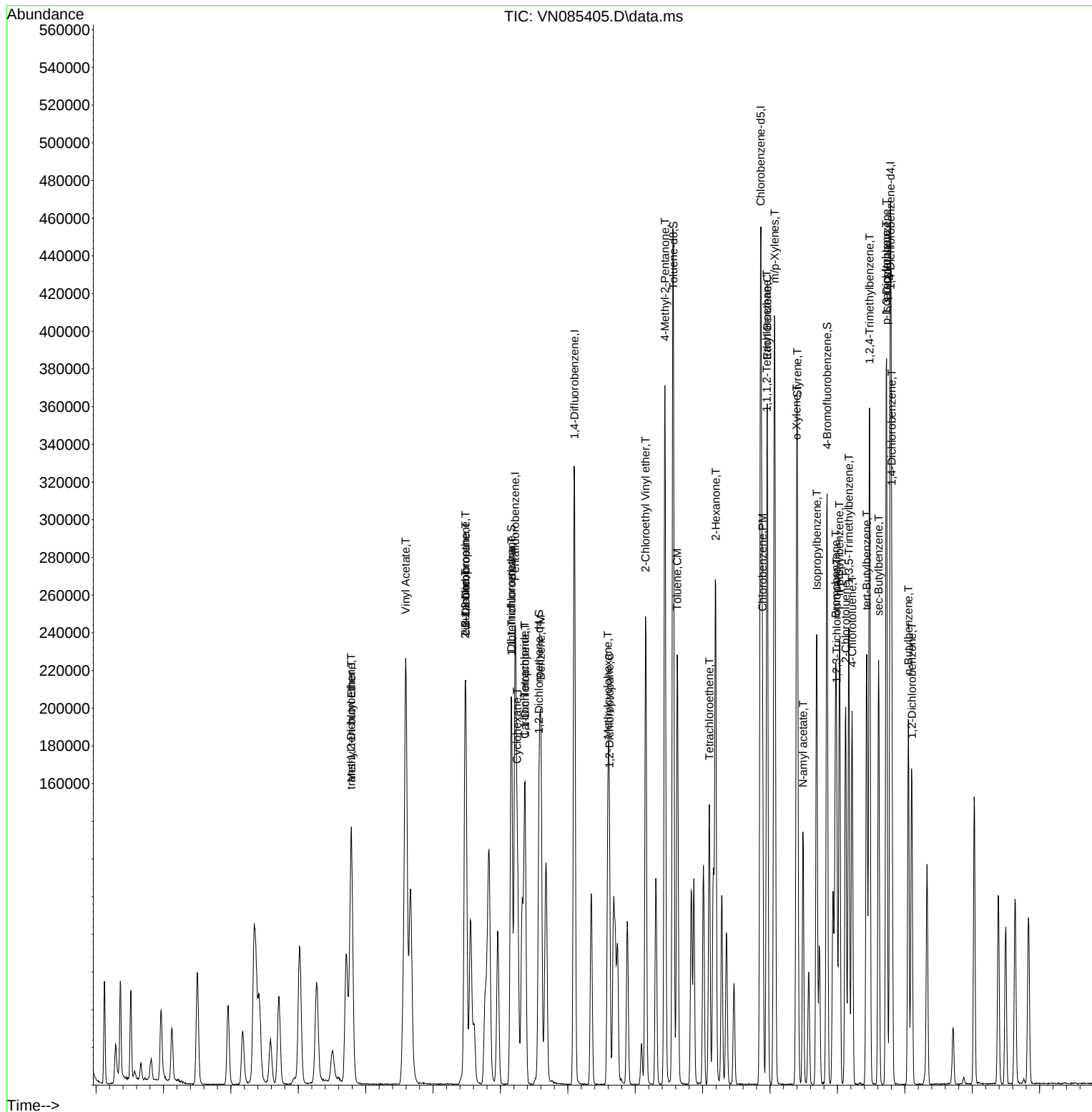
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Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN010925\  
Data File : VN085405.D  
Acq On    : 09 Jan 2025  13:40  
Operator  : JC\MD  
Sample    : VN0109WBSD01  
Misc      : 5.0mL/MSVOA_N/WATER  
ALS Vial  : 6      Sample Multiplier: 1
```

Instrument :
MSVOA_N
ClientSampleId :
VN0109WBSD01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 01/10/2025
Supervised By :Semsettin Yesilyurt 01/10/2025

Quant Time: Jan 10 00:18:35 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N122724W.M
Quant Title : SW846 8260
QLast Update : Sat Dec 28 01:36:16 2024
Response via : Initial Calibration



Manual Integration Report

Sequence:	vn122724	Instrument	MSVOA_n
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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC100	VN085321.D	1,2,3-Trichloropropane	JOHN	12/30/2024 9:19:06 AM	MMDadoda	12/30/2024 12:45:09 PM	Peak Integrated by Software
VSTDICCC050	VN085322.D	1,2,3-Trichloropropane	JOHN	12/30/2024 9:19:11 AM	MMDadoda	12/30/2024 12:45:14 PM	Peak Integrated by Software
VSTDICCC050	VN085322.D	trans-1,4-Dichloro-2-but ene	JOHN	12/30/2024 9:19:11 AM	MMDadoda	12/30/2024 12:45:14 PM	Peak Integrated by Software
VSTDICC020	VN085323.D	1,2,3-Trichloropropane	JOHN	12/30/2024 9:19:15 AM	MMDadoda	12/30/2024 12:45:16 PM	Peak Integrated by Software
VSTDICC020	VN085323.D	Vinyl Acetate	JOHN	12/30/2024 9:19:15 AM	MMDadoda	12/30/2024 12:45:16 PM	Peak Integrated by Software
VSTDICC010	VN085324.D	1,2,3-Trichloropropane	JOHN	12/30/2024 9:19:21 AM	MMDadoda	12/30/2024 12:45:18 PM	Peak Integrated by Software
VSTDICC010	VN085324.D	trans-1,4-Dichloro-2-but ene	JOHN	12/30/2024 9:19:21 AM	MMDadoda	12/30/2024 12:45:18 PM	Peak Integrated by Software
VSTDICC010	VN085324.D	Vinyl Acetate	JOHN	12/30/2024 9:19:21 AM	MMDadoda	12/30/2024 12:45:18 PM	Peak Integrated by Software
VSTDICC005	VN085325.D	1,2,3-Trichloropropane	JOHN	12/30/2024 9:19:25 AM	MMDadoda	12/30/2024 12:45:20 PM	Peak Integrated by Software
VSTDICC005	VN085325.D	Vinyl Acetate	JOHN	12/30/2024 9:19:25 AM	MMDadoda	12/30/2024 12:45:20 PM	Peak Integrated by Software
VSTDICC001	VN085326.D	1,1,2-Trichlorotrifluoroet hane	JOHN	12/30/2024 9:19:30 AM	MMDadoda	12/30/2024 12:45:21 PM	Peak Integrated by Software
VSTDICC001	VN085326.D	1,2,3-Trichloropropane	JOHN	12/30/2024 9:19:30 AM	MMDadoda	12/30/2024 12:45:21 PM	Peak Integrated by Software
VSTDICC001	VN085326.D	1,4-Dichlorobenzene	JOHN	12/30/2024 9:19:30 AM	MMDadoda	12/30/2024 12:45:21 PM	Peak Integrated by Software

Manual Integration Report

Sequence:

vn122724

Instrument

MSVOA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC001	VN085326.D	1,4-Dioxane	JOHN	12/30/2024 9:19:30 AM	MMDadoda	12/30/2024 12:45:21 PM	Peak Integrated by Software
VSTDICC001	VN085326.D	Acrylonitrile	JOHN	12/30/2024 9:19:30 AM	MMDadoda	12/30/2024 12:45:21 PM	Peak Integrated by Software
VSTDICC001	VN085326.D	Bromochloromethane	JOHN	12/30/2024 9:19:30 AM	MMDadoda	12/30/2024 12:45:21 PM	Peak Integrated by Software
VSTDICC001	VN085326.D	Methacrylonitrile	JOHN	12/30/2024 9:19:30 AM	MMDadoda	12/30/2024 12:45:21 PM	Peak Integrated by Software
VSTDICV050	VN085328.D	1,2,3-Trichloropropane	JOHN	12/30/2024 9:19:35 AM	MMDadoda	12/30/2024 12:45:23 PM	Peak Integrated by Software
VSTDCCC050	VN085337.D	1,2,3-Trichloropropane	JOHN	12/30/2024 9:19:56 AM	MMDadoda	12/30/2024 12:45:33 PM	Peak Integrated by Software

Manual Integration Report

Sequence:

VN010925

Instrument

MSVOA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC050	VN085401.D	1,2,3-Trichloropropane	MMDADO DA	1/10/2025 7:22:58 AM	SAM	1/10/2025 7:24:41 AM	Peak Integrated by Software
VN0109WBS01	VN085404.D	1,2,3-Trichloropropane	MMDADO DA	1/10/2025 7:23:00 AM	SAM	1/10/2025 7:24:46 AM	Peak Integrated by Software
VN0109WBSD0 1	VN085405.D	1,2,3-Trichloropropane	MMDADO DA	1/10/2025 7:23:01 AM	SAM	1/10/2025 7:24:47 AM	Peak Integrated by Software
VN0109WBSD0 1	VN085405.D	trans-1,4-Dichloro-2-but ene	MMDADO DA	1/10/2025 7:23:01 AM	SAM	1/10/2025 7:24:47 AM	Peak Integrated by Software
Q1038-01	VN085409.D	Methylene Chloride	MMDADO DA	1/10/2025 7:23:03 AM	SAM	1/10/2025 7:24:49 AM	Peak Integrated by Software
VSTDCCC050	VN085416.D	1,2,3-Trichloropropane	MMDADO DA	1/10/2025 7:23:11 AM	SAM	1/10/2025 7:25:04 AM	Peak Integrated by Software

Instrument ID: **MSVOA_N**

Daily Analysis Runlog For Sequence/QC Batch ID # VN122724

Review By	John Carlone	Review On	12/30/2024 9:27:13 AM
Supervise By	Mahesh Dadoda	Supervise On	12/30/2024 12:45:11 PM
SubDirectory	VN122724	HP Acquire Method	HP Processing Method 82N122724W.M
STD. NAME	STD REF.#		
Tune/Reschk	VP132335		
Initial Calibration Stds	VP132354,VP132355,VP132356,VP132357,VP132358,VP132359		
CCC	VP132336		
Internal Standard/PEM			
ICV/I.BLK	VP132360		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VN085320.D	27 Dec 2024 09:52	JC\MD	Ok
2	VSTDICC100	VN085321.D	27 Dec 2024 10:26	JC\MD	Ok,M
3	VSTDICCC050	VN085322.D	27 Dec 2024 10:50	JC\MD	Ok,M
4	VSTDICC020	VN085323.D	27 Dec 2024 11:13	JC\MD	Ok,M
5	VSTDICC010	VN085324.D	27 Dec 2024 11:37	JC\MD	Ok,M
6	VSTDICC005	VN085325.D	27 Dec 2024 12:01	JC\MD	Ok,M
7	VSTDICC001	VN085326.D	27 Dec 2024 12:48	JC\MD	Ok,M
8	IBLK	VN085327.D	27 Dec 2024 13:12	JC\MD	Ok
9	VSTDICV050	VN085328.D	27 Dec 2024 15:58	JC\MD	Ok,M
10	VN1227WBL01	VN085329.D	27 Dec 2024 16:33	JC\MD	Ok
11	VN1227WBS01	VN085330.D	27 Dec 2024 16:57	JC\MD	Ok,M
12	VN1227WBSD01	VN085331.D	27 Dec 2024 17:30	JC\MD	Ok,M
13	PB165857TB	VN085332.D	27 Dec 2024 17:55	JC\MD	Ok
14	P5362-02	VN085333.D	27 Dec 2024 18:18	JC\MD	Ok
15	P5380-02	VN085334.D	27 Dec 2024 18:42	JC\MD	Ok
16	P5386-02	VN085335.D	27 Dec 2024 19:06	JC\MD	Ok,M
17	P5386-04	VN085336.D	27 Dec 2024 19:30	JC\MD	Ok,M
18	VSTDCCC050	VN085337.D	27 Dec 2024 19:54	JC\MD	Ok,M

M : Manual Integration

Instrument ID: **MSVOA_N**

Daily Analysis Runlog For Sequence/QC Batch ID # VN010925

Review By	Mahesh Dadoda	Review On	1/10/2025 7:23:14 AM
Supervise By	Semsettin Yesilyurt	Supervise On	1/10/2025 7:25:08 AM
SubDirectory	VN010925	HP Acquire Method	HP Processing Method 82N122724W.M
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	VP132480		
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP132481,VP132482		

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VN085400.D	09 Jan 2025 09:43	JC\MD	Ok
2	VSTDCCC050	VN085401.D	09 Jan 2025 11:45	JC\MD	Ok,M
3	VN0109MBL01	VN085402.D	09 Jan 2025 12:19	JC\MD	Ok
4	VN0109WBL01	VN085403.D	09 Jan 2025 12:43	JC\MD	Ok
5	VN0109WBS01	VN085404.D	09 Jan 2025 13:07	JC\MD	Ok,M
6	VN0109WBSD01	VN085405.D	09 Jan 2025 13:40	JC\MD	Ok,M
7	Q1032-01	VN085406.D	09 Jan 2025 14:04	JC\MD	Ok
8	Q1033-01	VN085407.D	09 Jan 2025 14:28	JC\MD	Ok
9	Q1038-02	VN085408.D	09 Jan 2025 14:51	JC\MD	Ok
10	Q1038-01	VN085409.D	09 Jan 2025 15:15	JC\MD	Ok,M
11	IBLK	VN085410.D	09 Jan 2025 15:39	JC\MD	Ok
12	VN0109MBS01	VN085411.D	09 Jan 2025 16:03	JC\MD	Ok,M
13	Q1025-01	VN085412.D	09 Jan 2025 16:27	JC\MD	Ok
14	Q1049-01	VN085413.D	09 Jan 2025 16:50	JC\MD	Dilution
15	IBLK	VN085414.D	09 Jan 2025 17:35	JC\MD	Ok
16	Q1049-01DL	VN085415.D	09 Jan 2025 17:59	JC\MD	Ok,M
17	VSTDCCC050	VN085416.D	09 Jan 2025 18:23	JC\MD	Ok,M

M : Manual Integration

Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QC Batch ID # VN122724

Review By	John Carlone	Review On	12/30/2024 9:27:13 AM
Supervise By	Mahesh Dadoda	Supervise On	12/30/2024 12:45:11 PM
SubDirectory	VN122724	HP Acquire Method	HP Processing Method 82N122724W.M

STD. NAME	STD REF.#
Tune/Reschk	VP132335
Initial Calibration Stds	VP132354,VP132355,VP132356,VP132357,VP132358,VP132359
CCC	VP132336
Internal Standard/PEM	
ICV/I.BLK	VP132360
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VN085320.D	27 Dec 2024 09:52		JC\MD	Ok
2	VSTDICC100	VSTDICC100	VN085321.D	27 Dec 2024 10:26		JC\MD	Ok,M
3	VSTDICCC050	VSTDICCC050	VN085322.D	27 Dec 2024 10:50		JC\MD	Ok,M
4	VSTDICC020	VSTDICC020	VN085323.D	27 Dec 2024 11:13		JC\MD	Ok,M
5	VSTDICC010	VSTDICC010	VN085324.D	27 Dec 2024 11:37		JC\MD	Ok,M
6	VSTDICC005	VSTDICC005	VN085325.D	27 Dec 2024 12:01		JC\MD	Ok,M
7	VSTDICC001	VSTDICC001	VN085326.D	27 Dec 2024 12:48	Comp #86 on QR	JC\MD	Ok,M
8	IBLK	IBLK	VN085327.D	27 Dec 2024 13:12		JC\MD	Ok
9	VSTDICV050	ICVVN122724	VN085328.D	27 Dec 2024 15:58		JC\MD	Ok,M
10	VN1227WBL01	VN1227WBL01	VN085329.D	27 Dec 2024 16:33		JC\MD	Ok
11	VN1227WBS01	VN1227WBS01	VN085330.D	27 Dec 2024 16:57		JC\MD	Ok,M
12	VN1227WBSD01	VN1227WBSD01	VN085331.D	27 Dec 2024 17:30		JC\MD	Ok,M
13	PB165857TB	PB165857TB	VN085332.D	27 Dec 2024 17:55		JC\MD	Ok
14	P5362-02	WC-SOIL-20241219	VN085333.D	27 Dec 2024 18:18	vial A pH#5.0	JC\MD	Ok
15	P5380-02	TAPIAL3-IDW-SOIL-12	VN085334.D	27 Dec 2024 18:42	vial A pH#5.0	JC\MD	Ok
16	P5386-02	MOO-24-00398	VN085335.D	27 Dec 2024 19:06	vial A pH#5.0	JC\MD	Ok,M
17	P5386-04	MOO-24-00395-96	VN085336.D	27 Dec 2024 19:30	vial A pH#5.0	JC\MD	Ok,M
18	VSTDCCC050	VSTDCCC050EC	VN085337.D	27 Dec 2024 19:54		JC\MD	Ok,M

Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QC Batch ID # VN122724

Review By	John Carlone	Review On	12/30/2024 9:27:13 AM	
Supervise By	Mahesh Dadoda	Supervise On	12/30/2024 12:45:11 PM	
SubDirectory	VN122724	HP Acquire Method	HP Processing Method	82N122724W.M
STD. NAME	STD REF.#			
Tune/Reschk	VP132335			
Initial Calibration Stds	VP132354,VP132355,VP132356,VP132357,VP132358,VP132359			
CCC	VP132336			
Internal Standard/PEM				
ICV/I.BLK	VP132360			
Surrogate Standard				
MS/MSD Standard				
LCS Standard				

M : Manual Integration

Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QC Batch ID # VN010925

Review By	Mahesh Dadoda	Review On	1/10/2025 7:23:14 AM
Supervise By	Semsettin Yesilyurt	Supervise On	1/10/2025 7:25:08 AM
SubDirectory	VN010925	HP Acquire Method	HP Processing Method 82N122724W.M

STD. NAME	STD REF.#
Tune/Reschk Initial Calibration Stds	VP132480
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP132481,VP132482

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VN085400.D	09 Jan 2025 09:43		JC\MD	Ok
2	VSTDCCC050	VSTDCCC050	VN085401.D	09 Jan 2025 11:45	V13516	JC\MD	Ok,M
3	VN0109MBL01	VN0109MBL01	VN085402.D	09 Jan 2025 12:19		JC\MD	Ok
4	VN0109WBL01	VN0109WBL01	VN085403.D	09 Jan 2025 12:43		JC\MD	Ok
5	VN0109WBS01	VN0109WBS01	VN085404.D	09 Jan 2025 13:07		JC\MD	Ok,M
6	VN0109WBSD01	VN0109WBSD01	VN085405.D	09 Jan 2025 13:40		JC\MD	Ok,M
7	Q1032-01	50492	VN085406.D	09 Jan 2025 14:04	vial B pH<2	JC\MD	Ok
8	Q1033-01	28612	VN085407.D	09 Jan 2025 14:28	vial B pH<2	JC\MD	Ok
9	Q1038-02	250108055-07-TRIP-BL	VN085408.D	09 Jan 2025 14:51	vial A pH#6.0 TB	JC\MD	Ok
10	Q1038-01	250108071-01-VOA	VN085409.D	09 Jan 2025 15:15	vial A pH#6.0	JC\MD	Ok,M
11	IBLK	IBLK	VN085410.D	09 Jan 2025 15:39		JC\MD	Ok
12	VN0109MBS01	VN0109MBS01	VN085411.D	09 Jan 2025 16:03		JC\MD	Ok,M
13	Q1025-01	GREENBROOK-COMP	VN085412.D	09 Jan 2025 16:27		JC\MD	Ok
14	Q1049-01	FRAC-TANK-257952	VN085413.D	09 Jan 2025 16:50	vial A pH<2 Need 5X	JC\MD	Dilution
15	IBLK	IBLK	VN085414.D	09 Jan 2025 17:35		JC\MD	Ok
16	Q1049-01DL	FRAC-TANK-257952DL	VN085415.D	09 Jan 2025 17:59	vial B pH<2	JC\MD	Ok,M
17	VSTDCCC050	VSTDCCC050EC	VN085416.D	09 Jan 2025 18:23		JC\MD	Ok,M

M : Manual Integration



SHIPPING DOCUMENTS

CHAIN OF CUSTODY RECORD - PRESS HARD AND PRINT CLEARLY - USE BALL POINT PEN

Garden State Laboratories, Inc.

Main Lab - 410 Hillside Avenue, Hillside NJ 07205 - NJDEP Lab Cert. #20044
Jersey Shore Lab - 54 Main Street, Waretown NJ 08758 - NJDEP Lab Cert. #15037

Tel. 800-273-8901/908-688-8900 Fax 908-688-8966 www.gslabs.com info@gslabs.com

Office and Drop off Locations

North Jersey Office: 225 Sparta Avenue, Sparta, NJ 07871 Tel. 973-729-1827

West Jersey Office: 2050 Route 31 North, Glen Gardner, NJ 08826 Tel. 908-537-7414

CLIENT INFORMATION (REPORT TO BE SENT TO)

Name: Garden State Laboratories, Inc. Contact/Authorized by: Elinor Battler
Mailing Address: 410 Hillside Ave. Phone: 908-688-8900 x 303
City/State/Zip: Hillside, NJ 07205 Email: ebattler@gslabs.com

SAMPLE INFORMATION

SAMPLE TYPE: WASTE WATER
SAMPLE LOCATION: ACUA SW LANDFILL LEACHATE TANKS

Q1038

OR SAMPLE RECEIVING USE ONLY

DATE/TIME/TEMP. REC'D AT LAB:

Page of

GSL CLIENT #

MICRO #

CHEM. #

SAMPLE REC'D BY:

☒ GSL FIELD SAMPLER/PICK-UP

☐ PICK-UP AT DROP OFF LOCATION

☐ DELIVERED BY CLIENT

Grab/Comp	SAMPLE ID	SAMPLE COLLECTION				ANALYSIS REQUIRED (Print Legibly)		CONTAINER INFORMATION			
		Date	Time	AM	PM	☐ List attached	Total Pages	No.	Type*	Size	Pres.*
X	VOA 250108071-01	1/8/25	10:18	X		EPA 8260 TCL LIST + Acrolien & Acrylonitrile	3	V	40ml	A	
X	Trip blank 250108055-01	—	—			EPA 8260 TCL LIST + Acrolien & Aci	2	V	40ml	A	

Container type: P = Plastic G = Glass A = Amber Glass T = Sterile Thio V = Vial Other/Specify:

Preservation Code: A = Non Preserved B = Sulfuric Acid C = Sodium Hydroxide D = Nitric Acid
E = Hydrochloric Acid F = Zinc Acetate G = Sodium Thiosulfate H = Ascorbic Acid I = Cooled Other/Specify:

☒ SUBCONTRACTED WORK

TURNAROUND TIME: ☒ Stand ☐ Rush (IF RUSH REQUESTED) Rush Due by:

REPORT FORMAT: ☒ Standard Report ☐ Other/Specify:

Standard Report + E2 PWS ID#:

SEND TO: Chem Tech

DATE/TIME: 1-9-25-0945

METHOD OF SHIPMEN Deliver

PAYMENT INFORMATION

☐ Sampling/Pick-up Fee: \$ ☐ Composite Fee: \$ ☐ Rush Fee: \$ Amount Due: \$

Payment Method: ☐ Credit Card Type: ☐ Check # ☐ Other: See Quote

Note:

VOA UNPRESERVED DUE TO EFFERVESCENCE - 3 DAY TAT PER JORDAN HE

SAMPLE CUSTODY EXCHANGES MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION
PLEASE PRINT YOUR NAME LEGIBLY, USE FULL LEGAL SIGNATURE, DATE AND TIME

Sampled by (PRINT):	Signature:	Date/Time:
Client/Client's Representative (PRINT):	Signature:	Date/Time:
1. Received/Relinquished by (PRINT): Daniel Askey	Signature: Daniel Askey	Date/Time: 1/8/25 15:22
2. Received/Relinquished by (PRINT): GUYTON WHITE	Signature: GUYTON WHITE	Date/Time: 1-9-25-0945

The liability of Garden State Laboratories, Inc. for services rendered shall in no event exceed the amount of the invoice.
Main Lab certified by NJ Dept. of Health, NJDEP-TNI, NY Dept. of Health #11550 and PADEP #68-03680

01-09-24 1.06 09:47



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

Laboratory Certification

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

LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q1038 GARD04

Order Date : 1/9/2025 9:48:00 AM

Project Mgr :

Client Name : Garden State Laboratories, I

Project Name : Waste Water 2025

Report Type : Level 1

Client Contact : Sharon Ercoliani

Receive DateTime : 1/9/2025 9:47:00 AM

EDD Type : EXCEL NOCLEANUP

Invoice Name : Garden State Laboratories, I

Purchase Order :

Hard Copy Date :

Invoice Contact : Sharon Ercoliani

Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
Q1038-01	250108071-01-VOA	Water	01/08/2025	10:18					
					VOCMS Group1		624.1	10 Bus. Days	
					VOCMS Group2		8260-Low	10 Bus. Days	
Q1038-02	250108055-07-TRIP-BLANK	Water	01/08/2025	00:00					
					VOCMS Group1		624.1	10 Bus. Days	
					VOCMS Group2		8260-Low	10 Bus. Days	

Relinquished By :

Date / Time : 1/9/25 1040

Received By :

Date / Time : 1/9/25 10:40

Storage Area : VOA Refridgerator Room