284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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Cover Page

Order ID : P4528

Project ID : Waste Water 2024

Client : Garden State Laboratories, Inc.

Lab Sample Number	Client Sample Number
P4528-01	241023068-02-VOA
P4528-02	241023062-05-TRIP-BLANK

I certify that the data package is in compliance with the terms and conditions of the contract,both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the laboratory manager or his designee, as verified by the following signature.

Signature : _____

Date: 10/30/2024

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

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CASE NARRATIVE

Garden State Laboratories, Inc.
Project Name: Waste Water 2024
Project # N/A
Chemtech Project # P4528
Test Name: VOCMS Group2

A. Number of Samples and Date of Receipt:
2 Water samples were received on 10/24/2024.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: VOCMS Group1 and VOCMS Group2. This data package contains results for VOCMS Group2.

C. Analytical Techniques:
The analysis performed on instrument MSVOA_N were done using GC column RXI-624SIL MS 30m 0.25mm 1.4 um. Cat#13868.The analysis of VOCMS Group2 was based on method 8260D.

D. QA/ QC Samples:
The Holding Times were met for all analysis.
The Surrogate recoveries met the acceptable criteria.
The Internal Standards Areas met the acceptable requirements.
The Retention Times were acceptable for all samples.
The RPD met criteria .

The Blank Spike for {VN1028WBS01} with File ID: VN084532.D met requirements for all samples except for 1,1,2-Trichloroethane[113%], 1,2-Dichloropropane[112%], Bromoform[111%] and Dibromochloromethane[112%] failing high but no positive hit in associated sample therefore no corrective action taken.

The Blank Spike Duplicate met requirements for all samples .
The Blank analysis did not indicate the presence of lab contamination.
The Initial Calibration met the requirements .

The Continuous Calibration File ID VN084503.D met the requirements except for Chloroethane, Chloromethane failing marginally low and Dichlorodifluoromethane failing low but no positive hit in associated sample also there was no volume for reanalysis therefore no corrective action taken.

The Tuning criteria met requirements.

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E. Additional Comments:
Samples for MS/MSD for VOC analysis were not provided with this set of samples. The Blank Spike Duplicate is reported with the data.
Please use %D calculated based on Avg RF and CCRF for all compounds using Average Response Factor when the %RSD value for a compound is <15% for the Initial Calibration curve and use %D calculated based on Amount added and Calculated amount for all compounds using Linear Regression when the %RSD value for a compound is > 15% for the Initial Calibration curve for SW-846 analysis.

F. Manual Integration Comments:
Please refer to the Manual integration Report included with the Run Logs for information on the manual integrations performed.

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Signature_____

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DATA REPORTING QUALIFIERS- ORGANIC

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

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

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APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: **P4528**

	Completed
For thorough review, the report must have the following:	
GENERAL:	
Are all original paperwork present (chain of custody, record of communication,airbill, sample management lab chronicle, login page)	✓
Check chain-of-custody for proper relinquish/return of samples	✓
Is the chain of custody signed and complete	✓
Check internal chain-of-custody for proper relinquish/return of samples /sample extracts	✓
Collect information for each project id from server. Were all requirements followed	✓
COVER PAGE:	
Do numbers of samples correspond to the number of samples in the Chain of Custody on login page	✓
Do lab numbers and client Ids on cover page agree with the Chain of Custody	✓
CHAIN OF CUSTODY:	
Do requested analyses on Chain of Custody agree with form I results	✓
Do requested analyses on Chain of Custody agree with the log-in page	✓
Were the correct method log-in for analysis according to the Analytical Request and Chain of Castody	✓
Were the samples received within hold time	✓
Were any problems found with the samples at arrival recorded in the Sample Management Laboratory Chronicle	✓
ANALYTICAL:	
Was method requirement followed?	✓
Was client requirement followed?	✓
Does the case narrative summarize all QC failure?	✓
All runlogs and manual integration are reviewed for requirements	✓
All manual calculations and /or hand notations verified	✓

QA Review Signature: **PATEL VAISHALI** **Date:** **10/30/2024**

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LAB CHRONICLE

OrderID:	P4528	**OrderDate:**	10/24/2024 10:00:00 AM
Client:	Garden State Laboratories, Inc.	**Project:**	Waste Water 2024
Contact:	Sharon Ercoliani	**Location:**	VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P4528-01	**241023068-02-VOA**	**Water**			**10/22/24**			**10/24/24**
			VOCMS Group1	624.1			10/25/24	
			VOCMS Group2	8260-Low			10/28/24	
P4528-02	**241023062-05-TRIP-BLANK**	**Water**			**10/24/24**			**10/24/24**
			VOCMS Group1	624.1			10/25/24	
			VOCMS Group2	8260-Low			10/25/24	

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Hit Summary Sheet
SW-846

SDG No.: P4528

Client: Garden State Laboratories, Inc.

Sample ID	Client ID	Matrix	Parameter		Concentration	C	MDL	RDL	Units
Client ID:	**241023068-02-VOA**								
P4528-01	241023068-02-VOA	Water	Benzene		0.65	J	0.16	1.00	ug/L
P4528-01	241023068-02-VOA	Water	Chlorobenzene		4.60		0.13	1.00	ug/L
P4528-01	241023068-02-VOA	Water	m/p-Xylenes		0.35	J	0.31	2.00	ug/L
P4528-01	241023068-02-VOA	Water	1,4-Dichlorobenzene		7.00		0.27	1.00	ug/L
P4528-01	241023068-02-VOA	Water	1,2-Dichlorobenzene		0.40	J	0.19	1.00	ug/L
			Total Voc :		13.0				
P4528-01	241023068-02-VOA	Water	Tetrahydrofuran	*	100	J	1.20	5.00	ug/L
P4528-01	241023068-02-VOA	Water	Tert butyl alcohol	*	180	J	5.60	25.0	ug/L
P4528-01	241023068-02-VOA	Water	Diethyl Ether	*	8.20	J	0.20	1.00	ug/L
P4528-01	241023068-02-VOA	Water	1,4-Dioxane	*	160	J	6.50	100	ug/L
			Total Tics :		448				
			Total Concentration:		461				

QC SUMMARY

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Surrogate Summary

SDG No.: P4528

Client: Garden State Laboratories, Inc.

Analytical Method: SW8260-Low

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits Low	Limits High
P4528-01	241023068-02-VOA	1,2-Dichloroethane-d4	50	47.3	95	74	125
		Dibromofluoromethane	50	51.8	104	75	124
		Toluene-d8	50	49.5	99	86	113
		4-Bromofluorobenzene	50	44.7	89	77	121
P4528-02	241023062-05-TRIP-BLANK	1,2-Dichloroethane-d4	50	60.3	121	74	125
		Dibromofluoromethane	50	57.8	116	75	124
		Toluene-d8	50	50.1	100	86	113
		4-Bromofluorobenzene	50	45.5	91	77	121
VN1025WBL02	VN1025WBL02	1,2-Dichloroethane-d4	50	52.2	104	74	125
		Dibromofluoromethane	50	51.4	103	75	124
		Toluene-d8	50	46.5	93	86	113
		4-Bromofluorobenzene	50	43.0	86	77	121
VN1025WBS02	VN1025WBS02	1,2-Dichloroethane-d4	50	47.7	95	74	125
		Dibromofluoromethane	50	50.8	102	75	124
		Toluene-d8	50	49.7	99	86	113
		4-Bromofluorobenzene	50	51.4	103	77	121
VN1025WBSD0	VN1025WBSD02	1,2-Dichloroethane-d4	50	51.2	102	74	125
		Dibromofluoromethane	50	52.8	106	75	124
		Toluene-d8	50	50.4	101	86	113
		4-Bromofluorobenzene	50	50.8	102	77	121
VN1028WBL01	VN1028WBL01	1,2-Dichloroethane-d4	50	49.7	99	74	125
		Dibromofluoromethane	50	51.4	103	75	124
		Toluene-d8	50	49.5	99	86	113
		4-Bromofluorobenzene	50	44.9	90	77	121
VN1028WBS01	VN1028WBS01	1,2-Dichloroethane-d4	50	52.4	105	74	125
		Dibromofluoromethane	50	56.5	113	75	124
		Toluene-d8	50	53.9	108	86	113
		4-Bromofluorobenzene	50	56.4	113	77	121

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4528

Client: Garden State Laboratories, Inc.

Analytical Method: SW8260-Low **Datafile :** VN084509.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VN1025WBS02	Dichlorodifluoromethane	20	13.7	ug/L	69			69	116	
	Chloromethane	20	15.2	ug/L	76			65	116	
	Vinyl chloride	20	16.2	ug/L	81			65	117	
	Bromomethane	20	16.2	ug/L	81			58	125	
	Chloroethane	20	15.4	ug/L	77			56	128	
	Trichlorofluoromethane	20	18.1	ug/L	91			73	115	
	1,1,2-Trichlorotrifluoroethane	20	18.0	ug/L	90			80	112	
	1,1-Dichloroethene	20	18.2	ug/L	91			74	110	
	Acetone	100	94.3	ug/L	94			60	125	
	Carbon disulfide	20	14.8	ug/L	74			64	112	
	Methyl tert-butyl Ether	20	19.2	ug/L	96			78	114	
	Methyl Acetate	20	20.7	ug/L	104			67	125	
	Methylene Chloride	20	18.3	ug/L	92			72	114	
	trans-1,2-Dichloroethene	20	18.2	ug/L	91			75	108	
	1,1-Dichloroethane	20	19.2	ug/L	96			78	112	
	Cyclohexane	20	16.4	ug/L	82			75	110	
	2-Butanone	100	100	ug/L	100			65	122	
	Carbon Tetrachloride	20	19.0	ug/L	95			77	113	
	cis-1,2-Dichloroethene	20	19.0	ug/L	95			77	110	
	Bromochloromethane	20	21.0	ug/L	105			70	124	
	Chloroform	20	19.5	ug/L	98			79	113	
	1,1,1-Trichloroethane	20	19.1	ug/L	96			80	108	
	Methylcyclohexane	20	16.9	ug/L	85			72	115	
	Benzene	20	19.2	ug/L	96			82	109	
	1,2-Dichloroethane	20	19.5	ug/L	98			80	115	
	Trichloroethene	20	19.8	ug/L	99			77	113	
	1,2-Dichloropropane	20	20.2	ug/L	101			83	111	
	Bromodichloromethane	20	20.0	ug/L	100			83	110	
	4-Methyl-2-Pentanone	100	110	ug/L	110			74	118	
	Toluene	20	19.6	ug/L	98			82	110	
	t-1,3-Dichloropropene	20	19.1	ug/L	96			79	110	
	cis-1,3-Dichloropropene	20	19.4	ug/L	97			82	110	
	1,1,2-Trichloroethane	20	21.5	ug/L	108			83	112	
	2-Hexanone	100	110	ug/L	110			73	117	
	Dibromochloromethane	20	21.1	ug/L	106			82	110	
	1,2-Dibromoethane	20	20.1	ug/L	101			81	110	
	Tetrachloroethene	20	18.8	ug/L	94			67	123	
	Chlorobenzene	20	19.5	ug/L	98			82	109	
	Ethyl Benzene	20	18.8	ug/L	94			83	109	
	m/p-Xylenes	40	39.6	ug/L	99			82	110	
	o-Xylene	20	19.9	ug/L	100			83	109	
	Styrene	20	20.2	ug/L	101			80	111	
	Bromoform	20	20.9	ug/L	104			79	109	
	Isopropylbenzene	20	17.8	ug/L	89			83	112	
	1,1,2,2-Tetrachloroethane	20	20.0	ug/L	100			76	118	
	1,3-Dichlorobenzene	20	18.5	ug/L	93			82	108	
	1,4-Dichlorobenzene	20	18.4	ug/L	92			82	107	
	1,2-Dichlorobenzene	20	18.5	ug/L	93			82	109	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4528

Client: Garden State Laboratories, Inc.

Analytical Method: SW8260-Low **Datafile :** VN084509.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VN1025WBS02	1,2-Dibromo-3-Chloropropane	20	19.2	ug/L	96			68	112	
	1,2,4-Trichlorobenzene	20	17.8	ug/L	89			75	113	
	1,2,3-Trichlorobenzene	20	17.6	ug/L	88			76	114	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4528

Client: Garden State Laboratories, Inc.

Analytical Method: SW8260-Low **Datafile :** VN084510.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VN1025WBSD02	Dichlorodifluoromethane	20	14.4	ug/L	72	4		69	116	20
	Chloromethane	20	15.3	ug/L	77	1		65	116	20
	Vinyl chloride	20	16.5	ug/L	83	2		65	117	20
	Bromomethane	20	16.3	ug/L	81	0		58	125	20
	Chloroethane	20	15.4	ug/L	77	0		56	128	20
	Trichlorofluoromethane	20	18.2	ug/L	91	0		73	115	20
	1,1,2-Trichlorotrifluoroethane	20	18.2	ug/L	91	1		80	112	20
	1,1-Dichloroethene	20	18.2	ug/L	91	0		74	110	20
	Acetone	100	97.3	ug/L	97	3		60	125	20
	Carbon disulfide	20	15.2	ug/L	76	3		64	112	20
	Methyl tert-butyl Ether	20	20.1	ug/L	101	5		78	114	20
	Methyl Acetate	20	22.1	ug/L	111	7		67	125	20
	Methylene Chloride	20	19.3	ug/L	97	5		72	114	20
	trans-1,2-Dichloroethene	20	18.8	ug/L	94	3		75	108	20
	1,1-Dichloroethane	20	19.8	ug/L	99	3		78	112	20
	Cyclohexane	20	16.7	ug/L	84	2		75	110	20
	2-Butanone	100	110	ug/L	110	10		65	122	20
	Carbon Tetrachloride	20	19.2	ug/L	96	1		77	113	20
	cis-1,2-Dichloroethene	20	19.5	ug/L	98	3		77	110	20
	Bromochloromethane	20	21.7	ug/L	109	4		70	124	20
	Chloroform	20	20.5	ug/L	103	5		79	113	20
	1,1,1-Trichloroethane	20	19.9	ug/L	100	4		80	108	20
	Methylcyclohexane	20	17.2	ug/L	86	1		72	115	20
	Benzene	20	19.3	ug/L	97	1		82	109	20
	1,2-Dichloroethane	20	19.9	ug/L	100	2		80	115	20
	Trichloroethene	20	19.4	ug/L	97	2		77	113	20
	1,2-Dichloropropane	20	20.5	ug/L	103	2		83	111	20
	Bromodichloromethane	20	20.3	ug/L	102	2		83	110	20
	4-Methyl-2-Pentanone	100	110	ug/L	110	0		74	118	20
	Toluene	20	19.8	ug/L	99	1		82	110	20
	t-1,3-Dichloropropene	20	19.8	ug/L	99	3		79	110	20
	cis-1,3-Dichloropropene	20	20.3	ug/L	102	5		82	110	20
	1,1,2-Trichloroethane	20	22.2	ug/L	111	3		83	112	20
	2-Hexanone	100	110	ug/L	110	0		73	117	20
	Dibromochloromethane	20	21.9	ug/L	110	4		82	110	20
	1,2-Dibromoethane	20	21.0	ug/L	105	4		81	110	20
	Tetrachloroethene	20	19.3	ug/L	97	3		67	123	20
	Chlorobenzene	20	19.5	ug/L	98	0		82	109	20
	Ethyl Benzene	20	18.7	ug/L	94	0		83	109	20
	m/p-Xylenes	40	38.9	ug/L	97	2		82	110	20
	o-Xylene	20	20.2	ug/L	101	1		83	109	20
	Styrene	20	20.1	ug/L	101	0		80	111	20
	Bromoform	20	21.6	ug/L	108	4		79	109	20
	Isopropylbenzene	20	18.6	ug/L	93	4		83	112	20
	1,1,2,2-Tetrachloroethane	20	21.6	ug/L	108	8		76	118	20
	1,3-Dichlorobenzene	20	19.4	ug/L	97	4		82	108	20
	1,4-Dichlorobenzene	20	19.0	ug/L	95	3		82	107	20
	1,2-Dichlorobenzene	20	18.7	ug/L	94	1		82	109	20

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4528

Client: Garden State Laboratories, Inc.

Analytical Method: SW8260-Low **Datafile :** VN084510.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VN1025WBSD02	1,2-Dibromo-3-Chloropropane	20	20.1	ug/L	101	5		68	112	20
	1,2,4-Trichlorobenzene	20	18.6	ug/L	93	4		75	113	20
	1,2,3-Trichlorobenzene	20	18.4	ug/L	92	4		76	114	20

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4528

Client: Garden State Laboratories, Inc.

Analytical Method: SW8260-Low **Datafile :** VN084532.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VN1028WBS01	Dichlorodifluoromethane	20	17.2	ug/L	86			69	116	
	Chloromethane	20	18.3	ug/L	92			65	116	
	Vinyl chloride	20	18.6	ug/L	93			65	117	
	Bromomethane	20	18.8	ug/L	94			58	125	
	Chloroethane	20	16.8	ug/L	84			56	128	
	Trichlorofluoromethane	20	20.4	ug/L	102			73	115	
	1,1,2-Trichlorotrifluoroethane	20	21.1	ug/L	106			80	112	
	1,1-Dichloroethene	20	19.9	ug/L	100			74	110	
	Acetone	100	98.9	ug/L	99			60	125	
	Carbon disulfide	20	16.7	ug/L	84			64	112	
	Methyl tert-butyl Ether	20	20.0	ug/L	100			78	114	
	Methyl Acetate	20	23.2	ug/L	116			67	125	
	Methylene Chloride	20	20.7	ug/L	104			72	114	
	trans-1,2-Dichloroethene	20	20.1	ug/L	101			75	108	
	1,1-Dichloroethane	20	20.8	ug/L	104			78	112	
	Cyclohexane	20	17.7	ug/L	89			75	110	
	2-Butanone	100	98.1	ug/L	98			65	122	
	Carbon Tetrachloride	20	21.1	ug/L	106			77	113	
	cis-1,2-Dichloroethene	20	19.9	ug/L	100			77	110	
	Bromochloromethane	20	17.1	ug/L	86			70	124	
	Chloroform	20	21.3	ug/L	106			79	113	
	1,1,1-Trichloroethane	20	20.7	ug/L	104			80	108	
	Methylcyclohexane	20	19.0	ug/L	95			72	115	
	Benzene	20	21.5	ug/L	108			82	109	
	1,2-Dichloroethane	20	21.4	ug/L	107			80	115	
	Trichloroethene	20	21.0	ug/L	105			77	113	
	1,2-Dichloropropane	20	22.3	ug/L	112		*	83	111	
	Bromodichloromethane	20	21.7	ug/L	109			83	110	
	4-Methyl-2-Pentanone	100	110	ug/L	110			74	118	
	Toluene	20	21.7	ug/L	109			82	110	
	t-1,3-Dichloropropene	20	20.7	ug/L	104			79	110	
	cis-1,3-Dichloropropene	20	21.0	ug/L	105			82	110	
	1,1,2-Trichloroethane	20	22.5	ug/L	113		*	83	112	
	2-Hexanone	100	110	ug/L	110			73	117	
	Dibromochloromethane	20	22.4	ug/L	112		*	82	110	
	1,2-Dibromoethane	20	22.0	ug/L	110			81	110	
	Tetrachloroethene	20	21.8	ug/L	109			67	123	
	Chlorobenzene	20	20.7	ug/L	104			82	109	
	Ethyl Benzene	20	20.1	ug/L	101			83	109	
	m/p-Xylenes	40	42.2	ug/L	106			82	110	
	o-Xylene	20	21.0	ug/L	105			83	109	
	Styrene	20	21.4	ug/L	107			80	111	
	Bromoform	20	22.1	ug/L	111		*	79	109	
	Isopropylbenzene	20	18.9	ug/L	95			83	112	
	1,1,2,2-Tetrachloroethane	20	20.5	ug/L	103			76	118	
	1,3-Dichlorobenzene	20	19.6	ug/L	98			82	108	
	1,4-Dichlorobenzene	20	19.5	ug/L	98			82	107	
	1,2-Dichlorobenzene	20	19.5	ug/L	98			82	109	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4528

Client: Garden State Laboratories, Inc.

Analytical Method: SW8260-Low **Datafile :** VN084532.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VN1028WBS01	1,2-Dibromo-3-Chloropropane	20	18.5	ug/L	93			68	112	
	1,2,4-Trichlorobenzene	20	18.9	ug/L	95			75	113	
	1,2,3-Trichlorobenzene	20	18.4	ug/L	92			76	114	

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VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VN1025WBL02

Lab Name: CHEMTECH Contract: GARD04

Lab Code: CHEM Case No.: P4528 SAS No.: P4528 SDG NO.: P4528

Lab File ID: VN084508.D Lab Sample ID: VN1025WBL02

Date Analyzed: 10/25/2024 Time Analyzed: 11:51

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
VN1025WBS02	VN1025WBS02	VN084509.D	10/25/2024
VN1025WBSD02	VN1025WBSD02	VN084510.D	10/25/2024
241023062-05-TRIP-BLANK	P4528-02	VN084520.D	10/25/2024

COMMENTS:

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VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VN1028WBL01

Lab Name: CHEMTECH Contract: GARD04

Lab Code: CHEM Case No.: P4528 SAS No.: P4528 SDG NO.: P4528

Lab File ID: VN084531.D Lab Sample ID: VN1028WBL01

Date Analyzed: 10/28/2024 Time Analyzed: 11:42

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
VN1028WBS01	VN1028WBS01	VN084532.D	10/28/2024
241023068-02-VOA	P4528-01	VN084546.D	10/28/2024

COMMENTS:

Raw Data: **VN084211.D**

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: GARD04

Lab Code: CHEM Case No.: P4528 SAS No.: P4528 SDG NO.: P4528

Lab File ID: VN084211.D BFB Injection Date: 09/30/2024

Instrument ID: MSVOA_N BFB Injection Time: 09:24

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

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	19.9
75	30.0 - 60.0% of mass 95	53.9
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.3
173	Less than 2.0% of mass 174	0.6 (0.8) 1
174	50.0 - 100.0% of mass 95	71
175	5.0 - 9.0% of mass 174	5.5 (7.8) 1
176	95.0 - 101.0% of mass 174	69.7 (98.2) 1
177	5.0 - 9.0% of mass 176	4.9 (7) 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	VN084213.D	09/30/2024	12:25
VSTDICCC050	VSTDICCC050	VN084214.D	09/30/2024	12:49
VSTDICC020	VSTDICC020	VN084215.D	09/30/2024	13:13
VSTDICC010	VSTDICC010	VN084216.D	09/30/2024	13:37
VSTDICC005	VSTDICC005	VN084217.D	09/30/2024	14:00
VSTDICC001	VSTDICC001	VN084218.D	09/30/2024	14:48

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: GARD04

Lab Code: CHEM Case No.: P4528 SAS No.: P4528 SDG NO.: P4528

Lab File ID: VN084502.D BFB Injection Date: 10/25/2024

Instrument ID: MSVOA_N BFB Injection Time: 08:21

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

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	19.4
75	30.0 - 60.0% of mass 95	54
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	7.2
173	Less than 2.0% of mass 174	0.6 (0.7) 1
174	50.0 - 100.0% of mass 95	76
175	5.0 - 9.0% of mass 174	5.4 (7.1) 1
176	95.0 - 101.0% of mass 174	72.6 (95.4) 1
177	5.0 - 9.0% of mass 176	4.5 (6.2) 2

1-Value is % mass 174 2-Value is % mass 176

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC050	VSTDCCC050	VN084503.D	10/25/2024	08:59
VN1025WBL02	VN1025WBL02	VN084508.D	10/25/2024	11:51
VN1025WBS02	VN1025WBS02	VN084509.D	10/25/2024	12:27
VN1025WBSD02	VN1025WBSD02	VN084510.D	10/25/2024	12:51
241023062-05-TRIP-BLANK	P4528-02	VN084520.D	10/25/2024	16:50

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: GARD04

Lab Code: CHEM Case No.: P4528 SAS No.: P4528 SDG NO.: P4528

Lab File ID: VN084528.D BFB Injection Date: 10/28/2024

Instrument ID: MSVOA_N BFB Injection Time: 09:18

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

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	17.5
75	30.0 - 60.0% of mass 95	53
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	7.4
173	Less than 2.0% of mass 174	1.3 (1.7) 1
174	50.0 - 100.0% of mass 95	76.4
175	5.0 - 9.0% of mass 174	6 (7.9) 1
176	95.0 - 101.0% of mass 174	72.6 (95.1) 1
177	5.0 - 9.0% of mass 176	4.5 (6.2) 2

1-Value is % mass 174 2-Value is % mass 176

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC050	VSTDCCC050	VN084529.D	10/28/2024	10:05
VN1028WBL01	VN1028WBL01	VN084531.D	10/28/2024	11:42
VN1028WBS01	VN1028WBS01	VN084532.D	10/28/2024	12:18
241023068-02-VOA	P4528-01	VN084546.D	10/28/2024	17:53

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: GARD04

Lab Code: CHEM Case No.: P4528 SAS No.: P4528 SDG NO.: P4528

Lab File ID: VN084503.D Date Analyzed: 10/25/2024

Instrument ID: MSVOA_N Time Analyzed: 08:59

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	182036	8.22	306519	9.10	274612	11.87
UPPER LIMIT	364072	8.724	613038	9.6	549224	12.365
LOWER LIMIT	91018	7.724	153260	8.6	137306	11.365
EPA SAMPLE NO.						
241023062-05-TRIP-BLANK	125033	8.23	236367	9.10	203498	11.87
VN1025WBL02	159284	8.22	289382	9.10	249149	11.87
VN1025WBS02	171552	8.22	293994	9.10	259694	11.87
VN1025WBSD02	162151	8.22	284141	9.10	253498	11.87

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

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

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

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: GARD04

Lab Code: CHEM Case No.: P4528 SAS No.: P4528 SDG NO.: P4528

Lab File ID: VN084503.D Date Analyzed: 10/25/2024

Instrument ID: MSVOA_N Time Analyzed: 08:59

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

	IS4 AREA #	RT #				
12 HOUR STD	138591	13.788				
UPPER LIMIT	277182	14.288				
LOWER LIMIT	69295.5	13.288				
EPA SAMPLE NO.						
241023062-05-TRIP-BLANK	80554	13.79				
VN1025WBL02	102517	13.79				
VN1025WBS02	130520	13.79				
VN1025WBSD02	122654	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.

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: GARD04

Lab Code: CHEM Case No.: P4528 SAS No.: P4528 SDG NO.: P4528

Lab File ID: Date Analyzed:

Instrument ID: Time Analyzed:

GC Column: ID: (mm) Heated Purge: (Y/N)

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD						
UPPER LIMIT						
LOWER LIMIT						
EPA SAMPLE NO.						

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

* Values outside of QC limits.

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: GARD04

Lab Code: CHEM Case No.: P4528 SAS No.: P4528 SDG NO.: P4528

Lab File ID: Date Analyzed:

Instrument ID: Time Analyzed:

GC Column: ID: (mm) Heated Purge: (Y/N)

	IS4 AREA #	RT #				
12 HOUR STD						
UPPER LIMIT						
LOWER LIMIT						
EPA SAMPLE NO.						

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

* Values outside of QC limits.

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: GARD04

Lab Code: CHEM Case No.: P4528 SAS No.: P4528 SDG NO.: P4528

Lab File ID: VN084529.D Date Analyzed: 10/28/2024

Instrument ID: MSVOA_N Time Analyzed: 10:05

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	166557	8.22	279237	9.10	255910	11.87
UPPER LIMIT	333114	8.724	558474	9.6	511820	12.365
LOWER LIMIT	83278.5	7.724	139619	8.6	127955	11.365
EPA SAMPLE NO.						
241023068-02-VOA	156261	8.22	256636	9.10	218316	11.87
VN1028WBL01	165769	8.22	293503	9.10	253666	11.87
VN1028WBS01	157919	8.22	266847	9.10	239542	11.87

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

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

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

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: GARD04

Lab Code: CHEM Case No.: P4528 SAS No.: P4528 SDG NO.: P4528

Lab File ID: VN084529.D Date Analyzed: 10/28/2024

Instrument ID: MSVOA_N Time Analyzed: 10:05

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

	IS4 AREA #	RT #				
12 HOUR STD	127505	13.788				
UPPER LIMIT	255010	14.288				
LOWER LIMIT	63752.5	13.288				
EPA SAMPLE NO.						
241023068-02-VOA	84904	13.79				
VN1028WBL01	101609	13.79				
VN1028WBS01	120806	13.79				

IS4 = 1,4-Dichlorobenzene-d4

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

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

SAMPLE DATA

Raw Data: **VN084546.D**

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Report of Analysis

Client:	Garden State Laboratories, Inc.	Date Collected:	10/22/24
Project:	Waste Water 2024	Date Received:	10/24/24
Client Sample ID:	241023068-02-VOA	SDG No.:	P4528
Lab Sample ID:	P4528-01	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
VN084546.D	1		10/28/24 17:53	VN102824

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	0.65	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	UQ	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

Raw Data: **VN084546.D**

Alliance TECHNICAL GROUP
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Report of Analysis

Client:	Garden State Laboratories, Inc.	Date Collected:	10/22/24
Project:	Waste Water 2024	Date Received:	10/24/24
Client Sample ID:	241023068-02-VOA	SDG No.:	P4528
Lab Sample ID:	P4528-01	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
VN084546.D	1		10/28/24 17:53	VN102824

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	UQ	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	UQ	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	4.60		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	0.35	J	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	UQ	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	7.00		0.27	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.40	J	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	47.3		74 - 125	95%	SPK: 50
1868-53-7	Dibromofluoromethane	51.8		75 - 124	104%	SPK: 50
2037-26-5	Toluene-d8	49.5		86 - 113	99%	SPK: 50
460-00-4	4-Bromofluorobenzene	44.7		77 - 121	89%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	156000	8.224			
540-36-3	1,4-Difluorobenzene	257000	9.1			
3114-55-4	Chlorobenzene-d5	218000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	84900	13.788			
TENTATIVE IDENTIFIED COMPOUNDS						

Alliance TECHNICAL GROUP
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Fax : 908 789 8922

Report of Analysis

Client:	Garden State Laboratories, Inc.	Date Collected:	10/22/24
Project:	Waste Water 2024	Date Received:	10/24/24
Client Sample ID:	241023068-02-VOA	SDG No.:	P4528
Lab Sample ID:	P4528-01	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
VN084546.D	1		10/28/24 17:53	VN102824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
60-29-7	Diethyl Ether	8.20	J		3.96	ug/L
75-65-0	Tert butyl alcohol	180	J		5.52	ug/L
109-99-9	Tetrahydrofuran	100	J		7.84	ug/L
123-91-1	1,4-Dioxane	160	J		9.70	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\VN102824\
Data File : VN084546.D
Acq On : 28 Oct 2024 17:53
Operator : JC\MD
Sample : P4528-01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
241023062-02-VOA

Quant Time: Oct 29 01:31:57 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.M
Quant Title : SW846 8260
QLast Update : Tue Oct 01 07:11:01 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	8.224	168	156261	50.000	ug/l		0.00
34) 1,4-Difluorobenzene	9.100	114	256636	50.000	ug/l		0.00
63) Chlorobenzene-d5	11.865	117	218316	50.000	ug/l		0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	84904	50.000	ug/l		0.00
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4	8.577	65	109552	47.285	ug/l		0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 94.560%				
35) Dibromofluoromethane	8.165	113	87697	51.833	ug/l		0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 103.660%				
50) Toluene-d8	10.565	98	307940	49.471	ug/l		0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 98.940%				
62) 4-Bromofluorobenzene	12.847	95	101341	44.689	ug/l		0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 89.380%				
Target Compounds							Qvalue
8) Diethyl Ether	3.959	74	9664	8.185	ug/l		95
11) Tert butyl alcohol	5.524	59	67036	175.473	ug/l		100
29) Tetrahydrofuran	7.841	42	86353	103.225	ug/l		97
40) Benzene	8.612	78	4984	0.651	ug/l	#	90
49) 1,4-Dioxane	9.700	88	5756	159.045	ug/l		95
65) Chlorobenzene	11.894	112	22409	4.629	ug/l		98
68) m/p-Xylenes	12.077	106	1112	0.351	ug/l	#	62
88) 1,4-Dichlorobenzene	13.812	146	20701	6.992	ug/l		93
91) 1,2-Dichlorobenzene	14.100	146	1162	0.404	ug/l		96

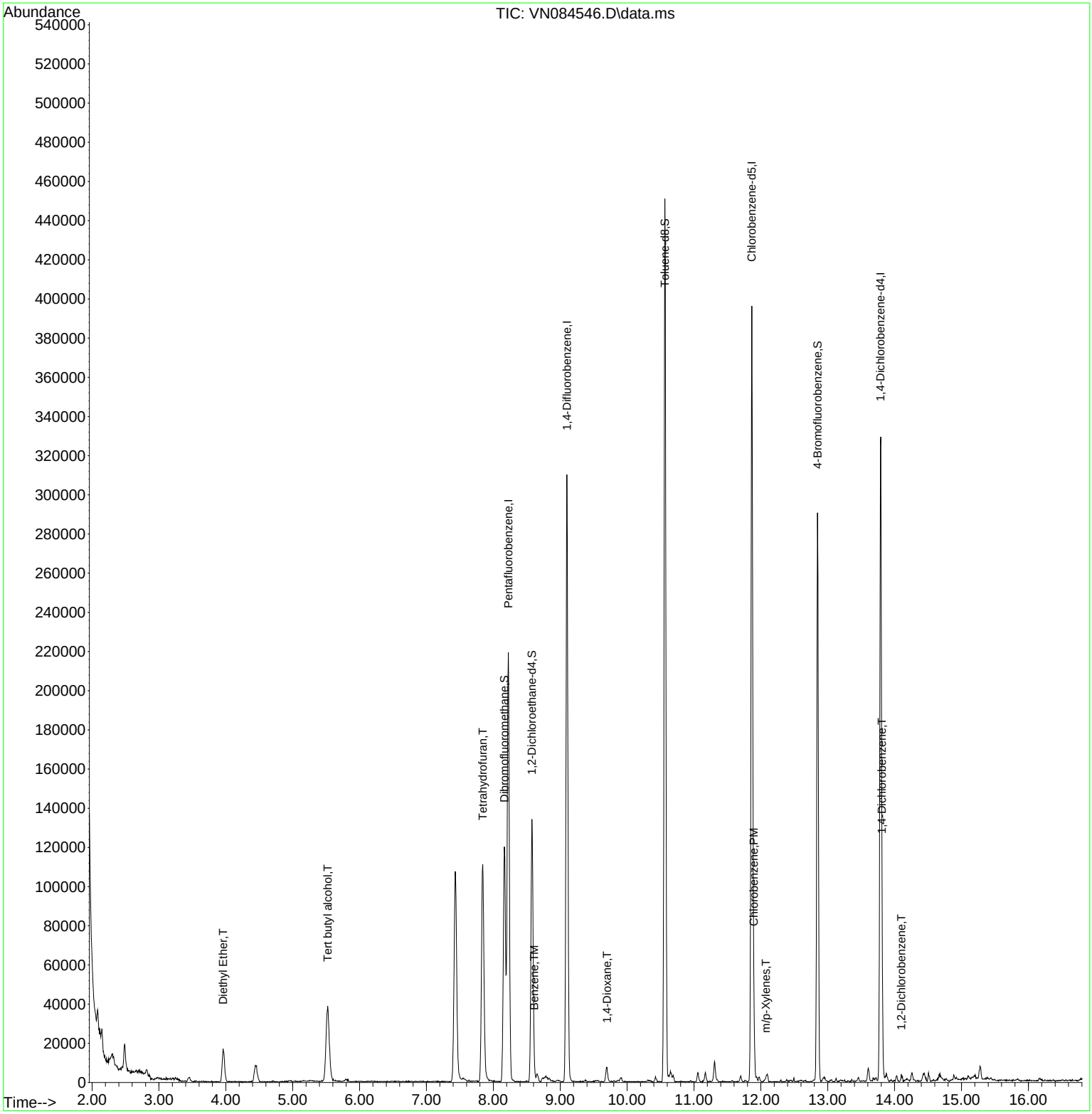
(#) = qualifier out of range (m) = manual integration (+) = signals summed

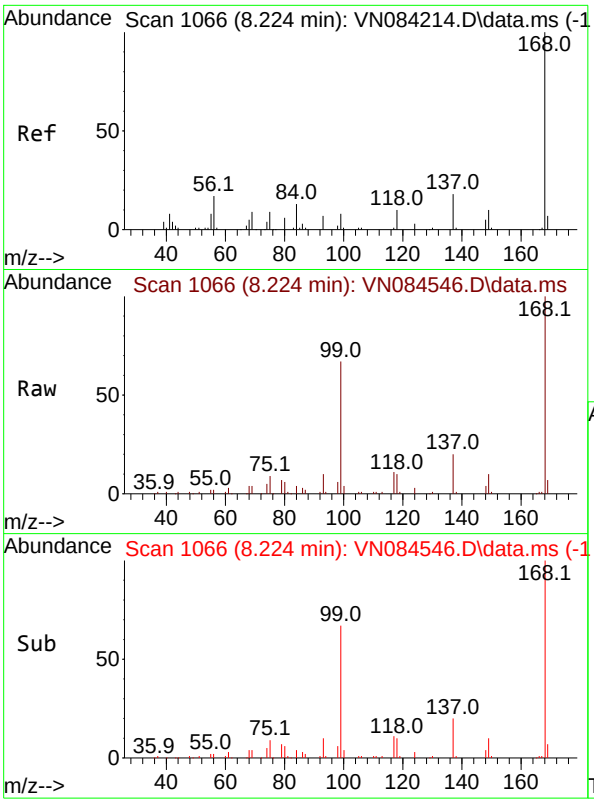
Sample Results: **VN084546.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102824\
Data File : VN084546.D
Acq On : 28 Oct 2024 17:53
Operator : JC\MD
Sample : P4528-01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
241023062-02-VOA

Quant Time: Oct 29 01:31:57 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.M
Quant Title : SW846 8260
QLast Update : Tue Oct 01 07:11:01 2024
Response via : Initial Calibration



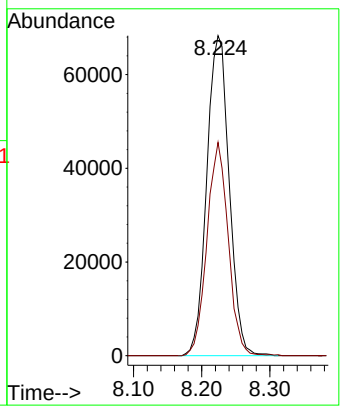


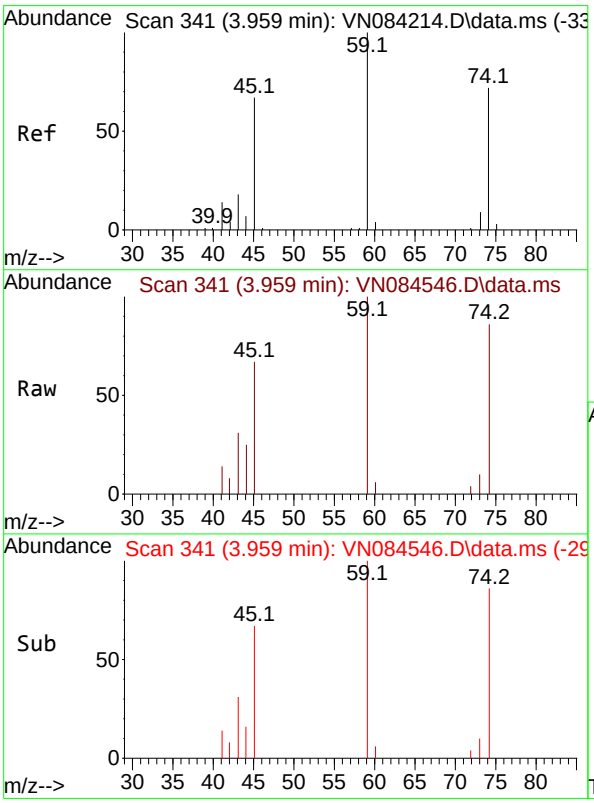
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN084546.D
Acq: 28 Oct 2024 17:53

Instrument :
MSVOA_N
ClientSampleId :
241023062-02-VOA

Tgt Ion:168 Resp: 156261

Ion	Ratio	Lower	Upper
168	100		
99	66.7	54.2	81.2

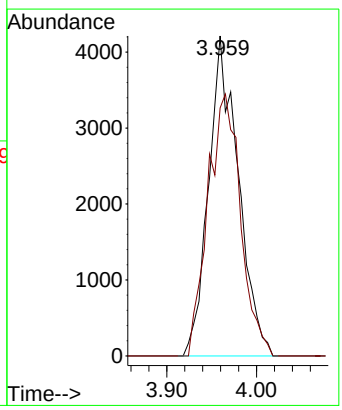


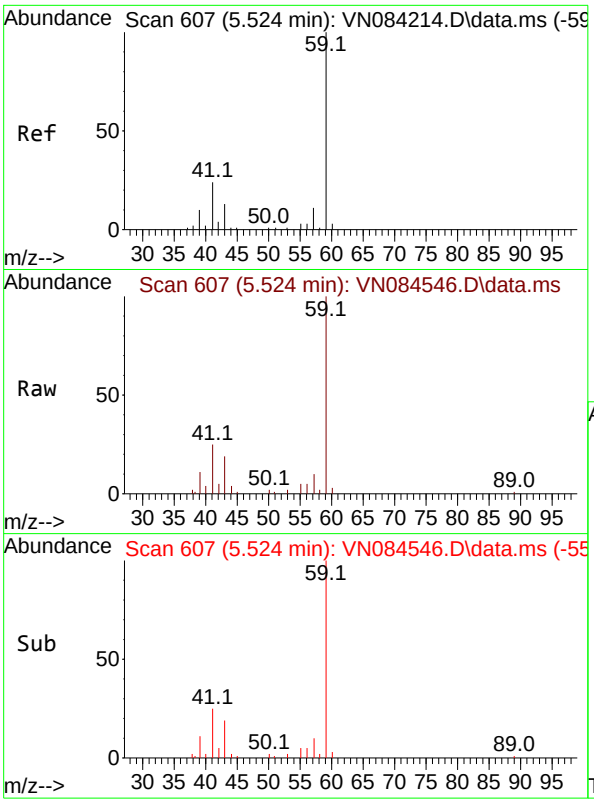


#8
Diethyl Ether
Concen: 8.185 ug/l
RT: 3.959 min Scan# 341
Delta R.T. 0.000 min
Lab File: VN084546.D
Acq: 28 Oct 2024 17:53

Tgt Ion: 74 Resp: 9664

Ion	Ratio	Lower	Upper
74	100		
45	90.2	47.7	143.1



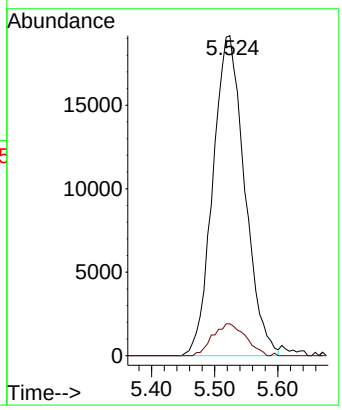


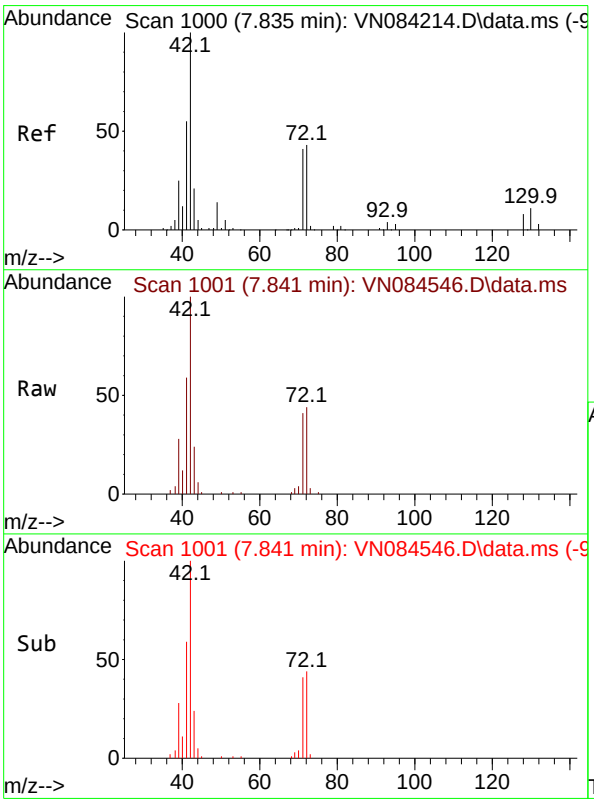
#11
Tert butyl alcohol
Concen: 175.473 ug/l
RT: 5.524 min Scan# 6
Delta R.T. 0.000 min
Lab File: VN084546.D
Acq: 28 Oct 2024 17:53

Instrument :
MSVOA_N
ClientSampleId :
241023062-02-VOA

Tgt Ion: 59 Resp: 67036

Ion	Ratio	Lower	Upper
59	100		
57	10.3	8.2	12.2

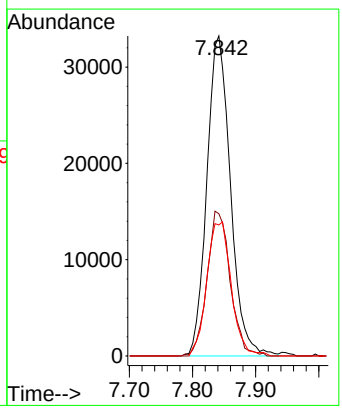


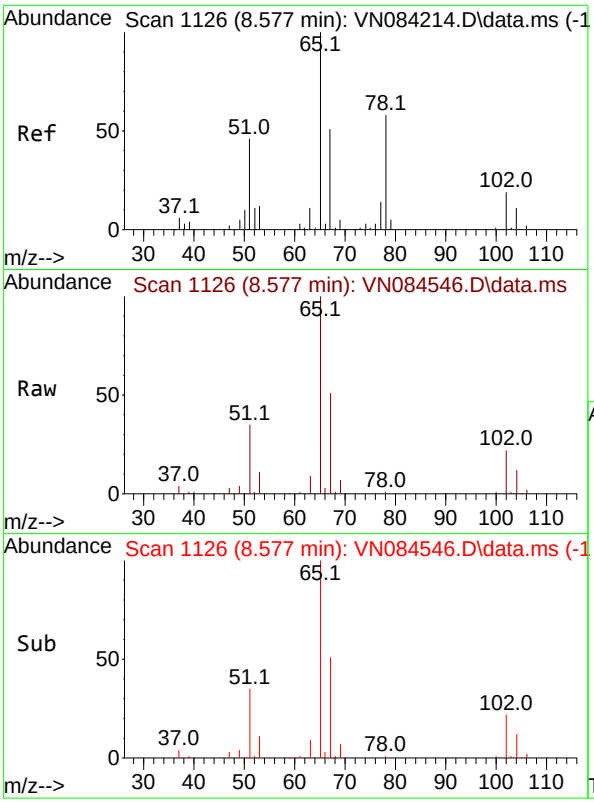


#29
Tetrahydrofuran
Concen: 103.225 ug/l
RT: 7.841 min Scan# 1001
Delta R.T. 0.006 min
Lab File: VN084546.D
Acq: 28 Oct 2024 17:53

Tgt Ion: 42 Resp: 86353

Ion	Ratio	Lower	Upper
42	100		
72	44.3	34.6	51.8
71	43.4	32.2	48.4



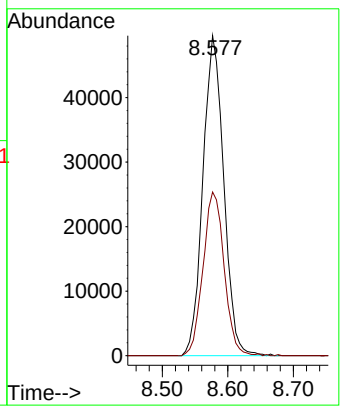


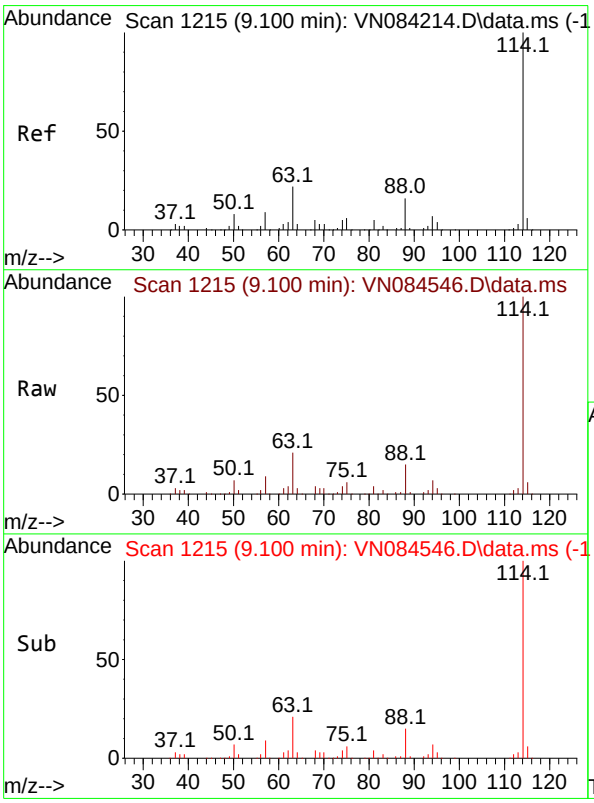
#33
1,2-Dichloroethane-d4
Concen: 47.285 ug/l
RT: 8.577 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN084546.D
Acq: 28 Oct 2024 17:53

Instrument :
MSVOA_N
ClientSampleId :
241023062-02-VOA

Tgt Ion: 65 Resp: 109552

Ion	Ratio	Lower	Upper
65	100		
67	51.9	0.0	102.0

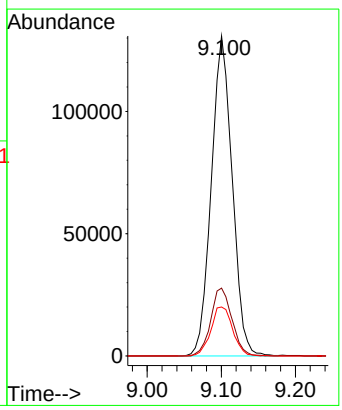


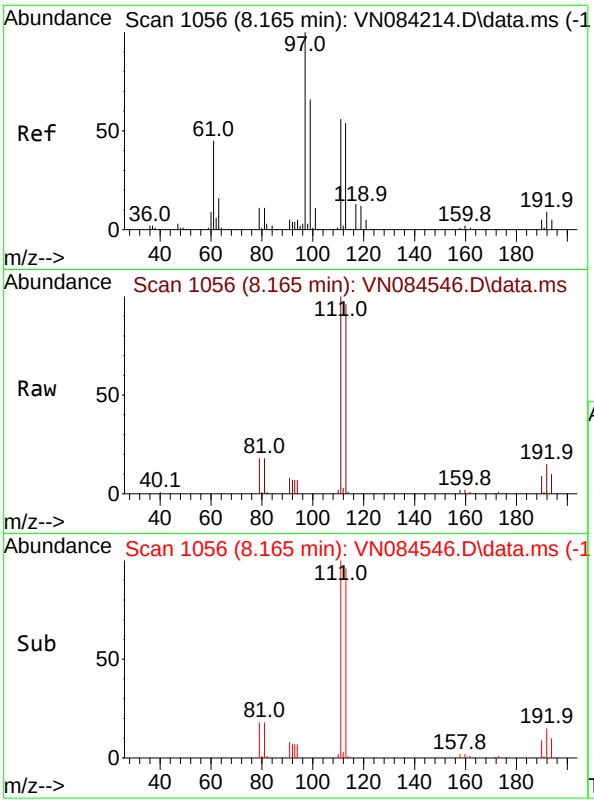


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.100 min Scan# 1215
Delta R.T. 0.000 min
Lab File: VN084546.D
Acq: 28 Oct 2024 17:53

Tgt Ion:114 Resp: 256636

Ion	Ratio	Lower	Upper
114	100		
63	21.2	0.0	43.8
88	15.3	0.0	31.6



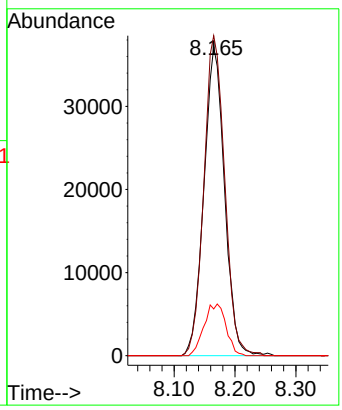


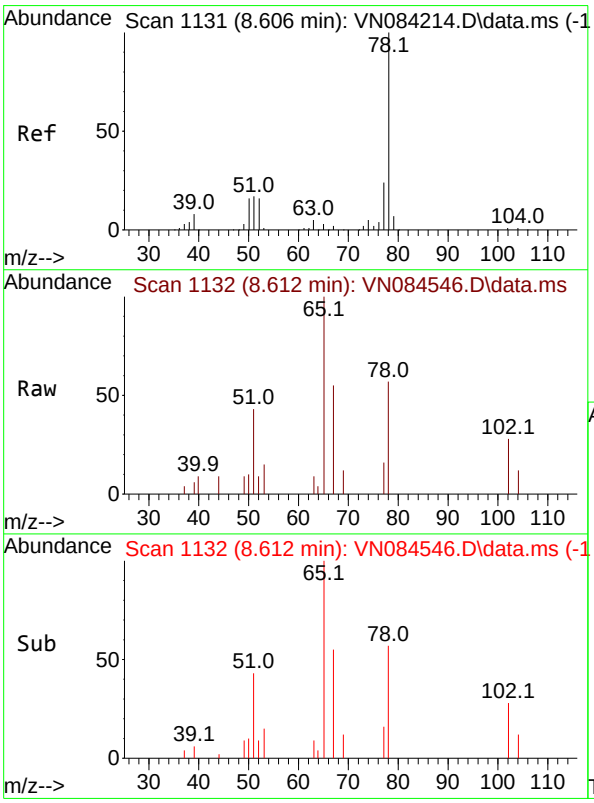
#35
Dibromofluoromethane
Concen: 51.833 ug/l
RT: 8.165 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN084546.D
Acq: 28 Oct 2024 17:53

Instrument :
MSVOA_N
ClientSampleId :
241023062-02-VOA

Tgt Ion:113 Resp: 87697

Ion	Ratio	Lower	Upper
113	100		
111	104.1	83.3	124.9
192	17.8	13.5	20.3

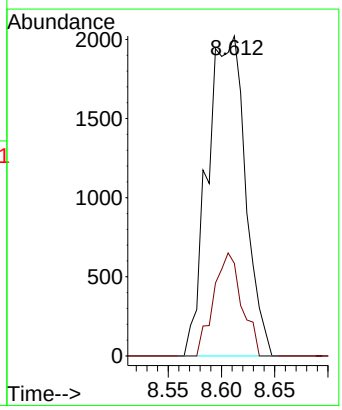


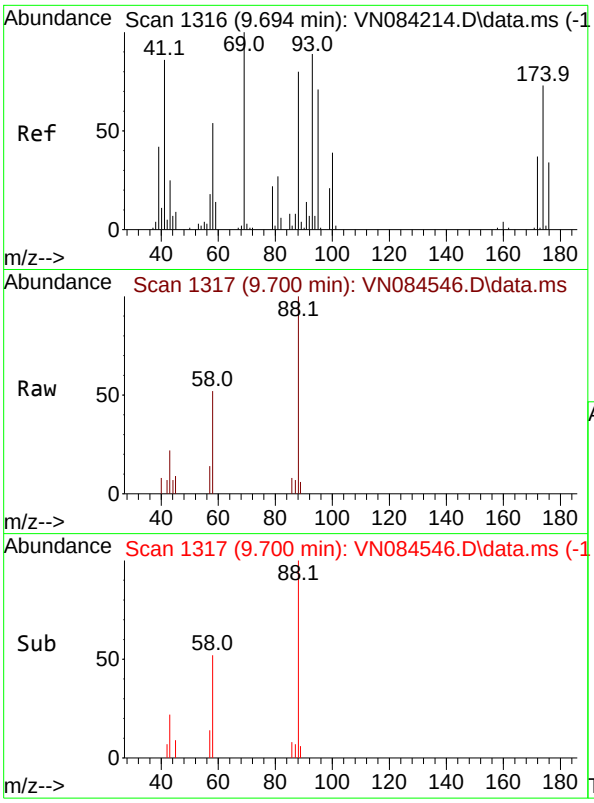


#40
Benzene
Concen: 0.651 ug/l
RT: 8.612 min Scan# 1132
Delta R.T. 0.006 min
Lab File: VN084546.D
Acq: 28 Oct 2024 17:53

Tgt Ion: 78 Resp: 4984

Ion	Ratio	Lower	Upper
78	100		
77	28.9	19.1	28.7#



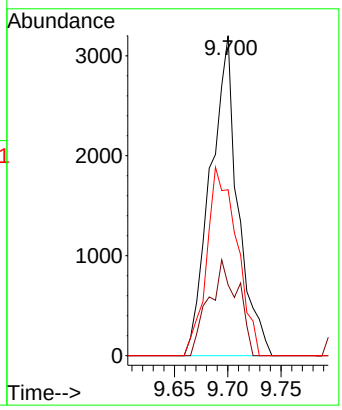


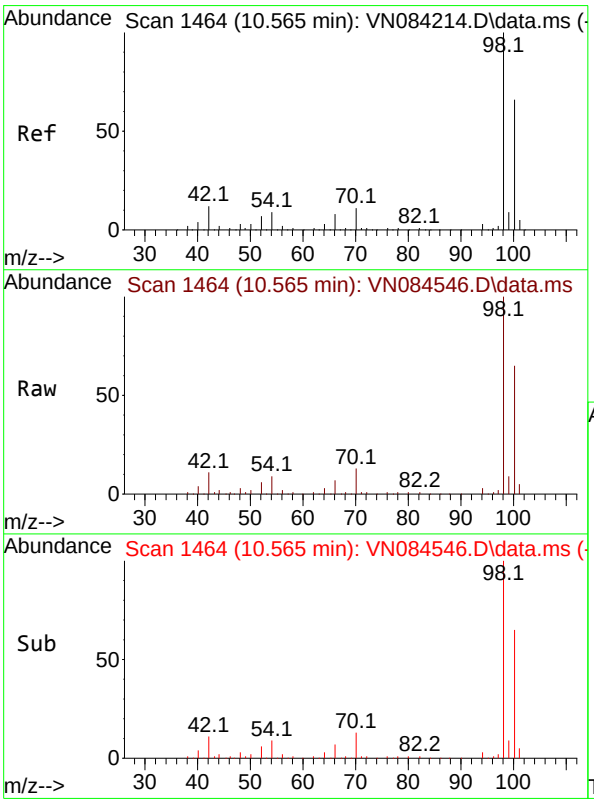
#49
1,4-Dioxane
Concen: 159.045 ug/l
RT: 9.700 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN084546.D
Acq: 28 Oct 2024 17:53

Instrument :
MSVOA_N
ClientSampleId :
241023062-02-VOA

Tgt Ion: 88 Resp: 5756

Ion	Ratio	Lower	Upper
88	100		
43	31.5	25.3	37.9
58	64.8	56.4	84.6

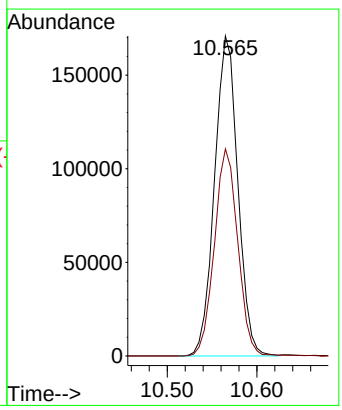


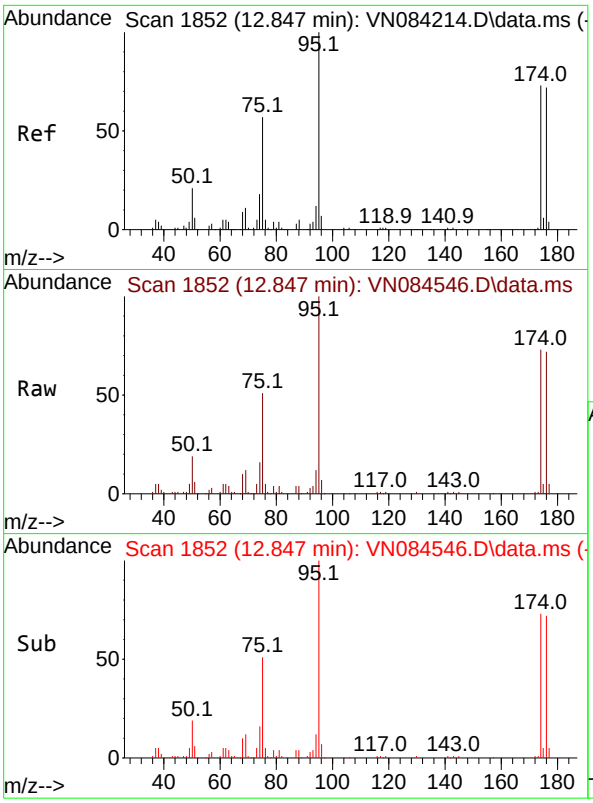


#50
Toluene-d8
Concen: 49.471 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. 0.000 min
Lab File: VN084546.D
Acq: 28 Oct 2024 17:53

Tgt Ion: 98 Resp: 307940

Ion	Ratio	Lower	Upper
98	100		
100	65.1	52.7	79.1



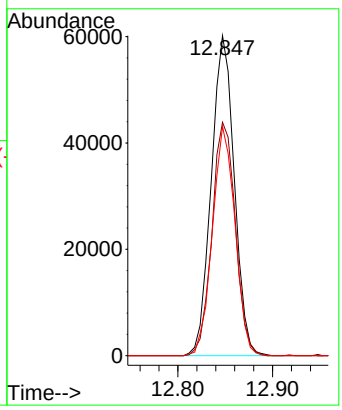


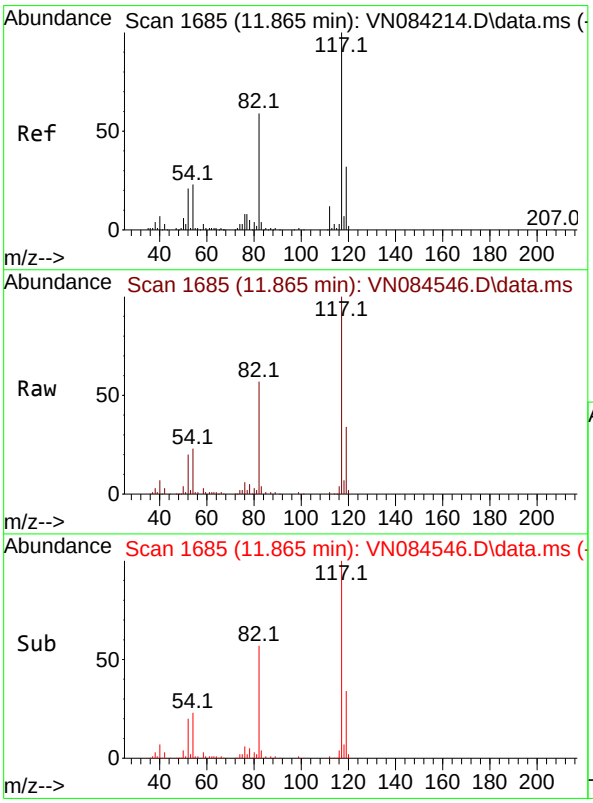
#62
4-Bromofluorobenzene
Concen: 44.689 ug/l
RT: 12.847 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN084546.D
Acq: 28 Oct 2024 17:53

Instrument :
MSVOA_N
ClientSampleId :
241023062-02-VOA

Tgt Ion: 95 Resp: 101341

Ion	Ratio	Lower	Upper
95	100		
174	74.1	0.0	145.2
176	70.5	0.0	140.0

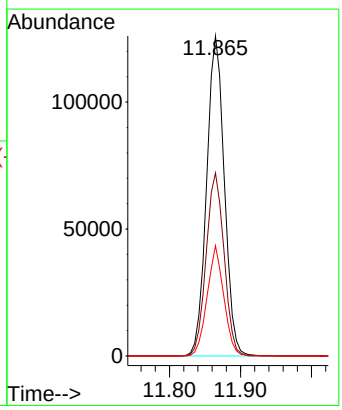


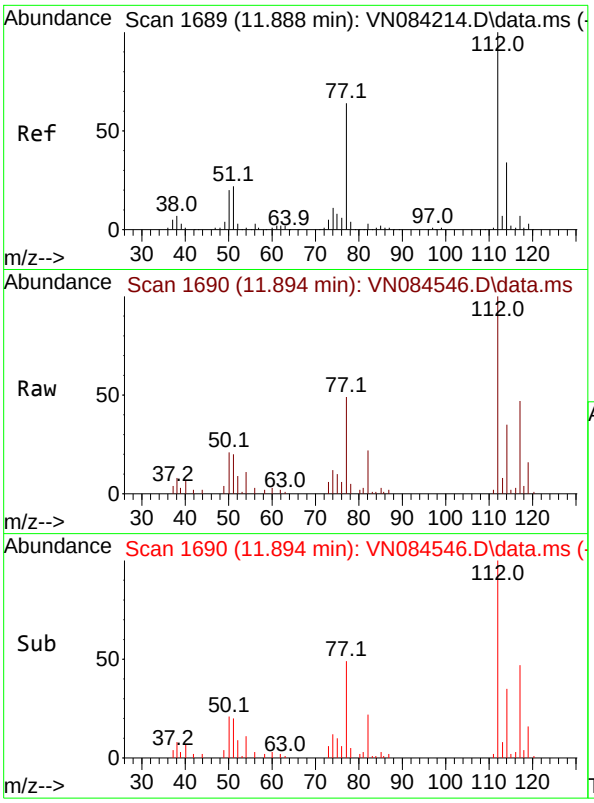


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. 0.000 min
Lab File: VN084546.D
Acq: 28 Oct 2024 17:53

Tgt Ion:117 Resp: 218316

Ion	Ratio	Lower	Upper
117	100		
82	57.2	47.2	70.8
119	34.4	25.4	38.0



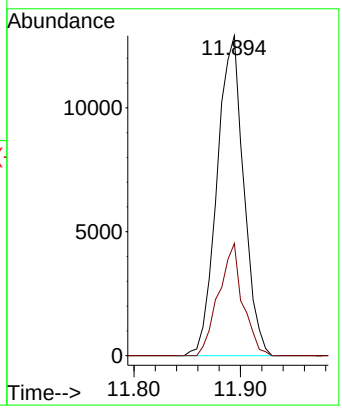


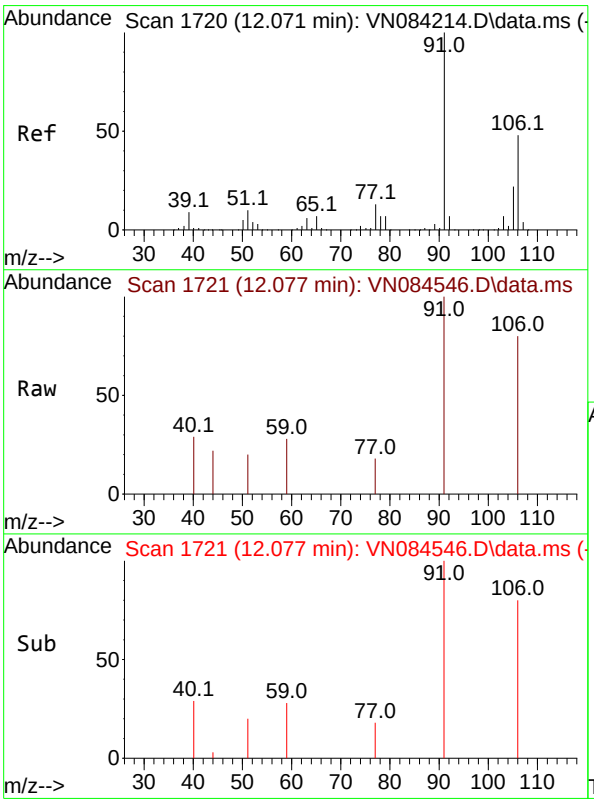
#65
Chlorobenzene
Concen: 4.629 ug/l
RT: 11.894 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN084546.D
Acq: 28 Oct 2024 17:53

Instrument :
MSVOA_N
ClientSampleId :
241023062-02-VOA

Tgt Ion:112 Resp: 22409

Ion	Ratio	Lower	Upper
112	100		
114	35.1	27.0	40.6

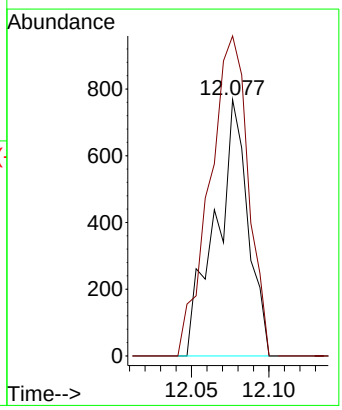


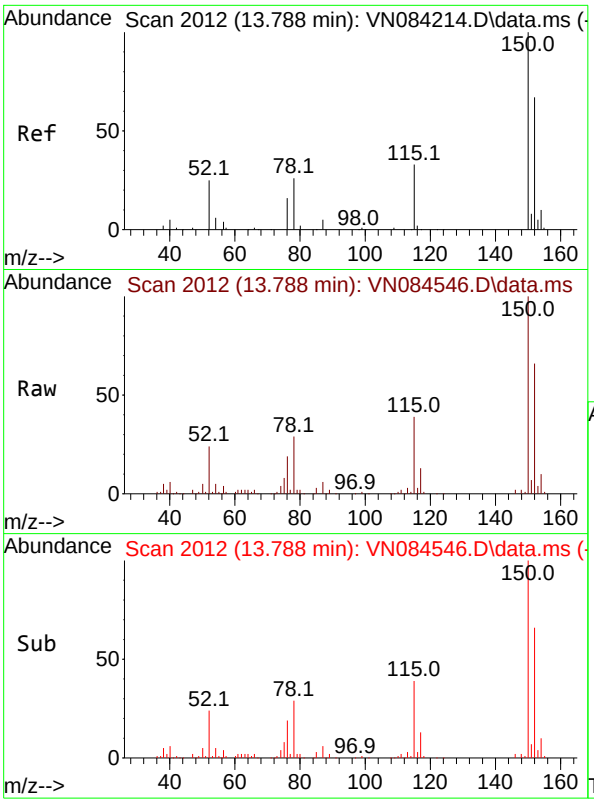


#68
m/p-Xylenes
Concen: 0.351 ug/l
RT: 12.077 min Scan# 1721
Delta R.T. 0.006 min
Lab File: VN084546.D
Acq: 28 Oct 2024 17:53

Tgt Ion:106 Resp: 1112

Ion	Ratio	Lower	Upper
106	100		
91	149.6	167.1	250.7#



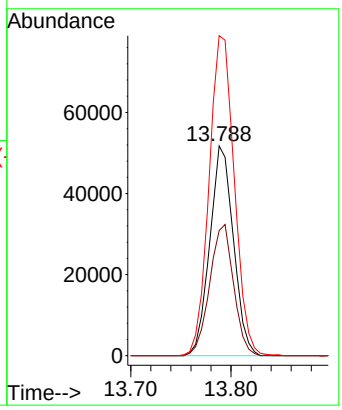


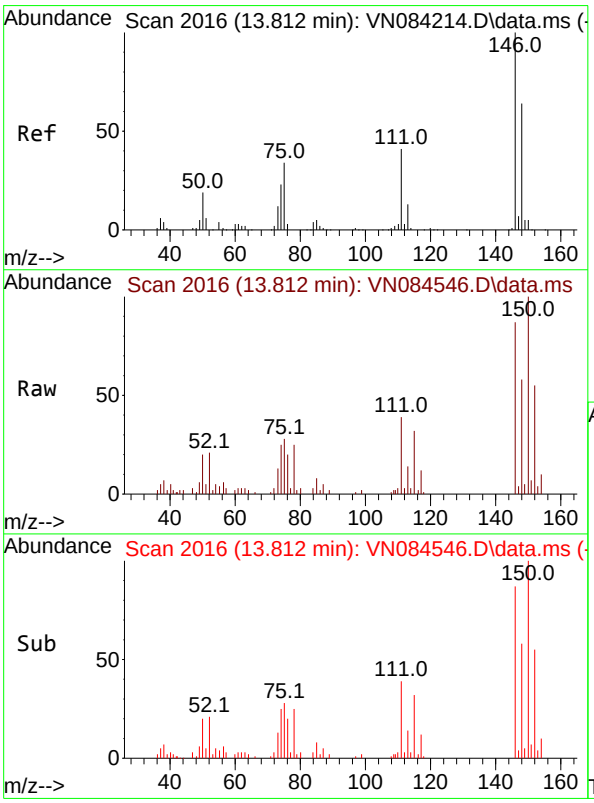
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2
Delta R.T. 0.000 min
Lab File: VN084546.D
Acq: 28 Oct 2024 17:53

Instrument :
MSVOA_N
ClientSampleId :
241023062-02-VOA

Tgt Ion:152 Resp: 84904

Ion	Ratio	Lower	Upper
152	100		
115	63.1	31.3	93.9
150	162.3	0.0	349.8

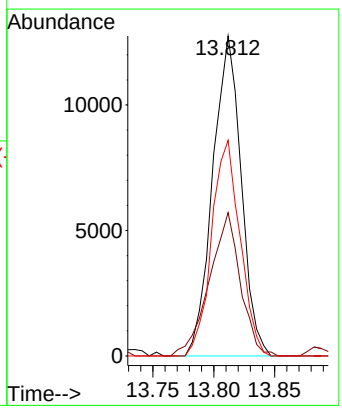


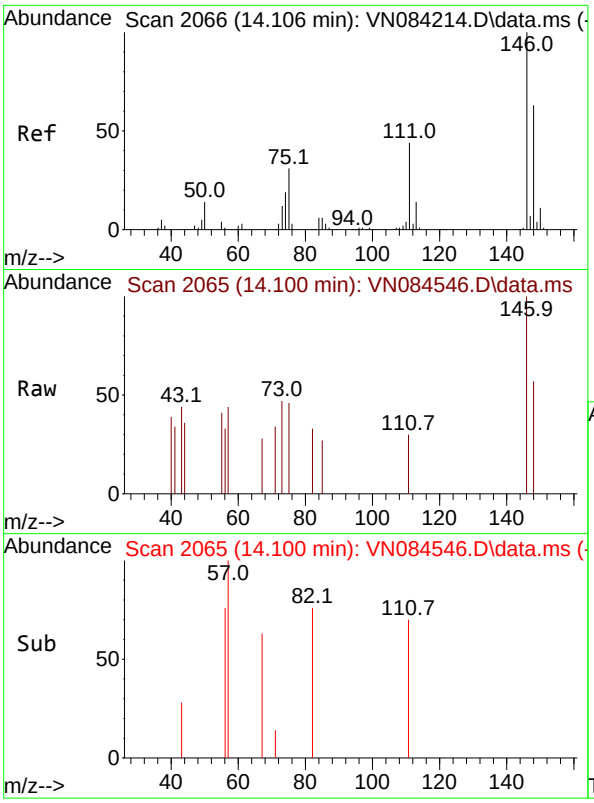


#88
1,4-Dichlorobenzene
Concen: 6.992 ug/l
RT: 13.812 min Scan# 2016
Delta R.T. 0.000 min
Lab File: VN084546.D
Acq: 28 Oct 2024 17:53

Tgt Ion:146 Resp: 20701

Ion	Ratio	Lower	Upper
146	100		
111	48.8	21.2	63.6
148	67.4	31.9	95.9



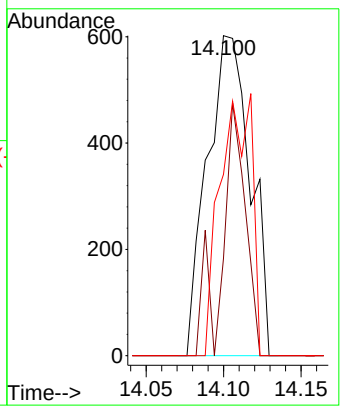


#91
1,2-Dichlorobenzene
Concen: 0.404 ug/l
RT: 14.100 min Scan# 2
Delta R.T. -0.006 min
Lab File: VN084546.D
Acq: 28 Oct 2024 17:53

Instrument :
MSVOA_N
ClientSampleId :
241023062-02-VOA

Tgt Ion:146 Resp: 1162

Ion	Ratio	Lower	Upper
146	100		
111	42.9	22.0	66.0
148	60.0	32.1	96.3



Sample Results: **VN084546.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102824\
Data File : VN084546.D
Acq On : 28 Oct 2024 17:53
Operator : JC\MD
Sample : P4528-01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
241023062-02-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\82N093024W.M
Title : SW846 8260

Signal : TIC: VN084546.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.489	86	91	99	rVB3	13893	27614	3.37%	0.522%
2	3.959	334	341	351	rBV3	16666	40619	4.96%	0.768%
3	4.442	416	423	425	rBV3	8150	16007	1.95%	0.303%
4	5.524	593	607	620	rBV3	38416	133646	16.32%	2.527%
5	7.430	920	931	948	rBV	107606	302499	36.93%	5.719%
6	7.842	991	1001	1017	rBV2	110909	289506	35.34%	5.473%
7	8.165	1047	1056	1060	rBV2	119931	275512	33.64%	5.209%
8	8.224	1060	1066	1077	rVB	218464	493880	60.29%	9.337%
9	8.577	1118	1126	1136	rBV	134008	306502	37.42%	5.795%
10	9.100	1204	1215	1232	rBV	310127	613088	74.85%	11.591%
11	9.694	1308	1316	1326	rBV3	7684	16784	2.05%	0.317%
12	10.565	1456	1464	1472	rBV	450980	819108	100.00%	15.486%
13	11.059	1541	1548	1557	rBV3	4889	9108	1.11%	0.172%
14	11.171	1559	1567	1572	rBV4	5158	9958	1.22%	0.188%
15	11.306	1582	1590	1596	rBV2	10307	19110	2.33%	0.361%
16	11.865	1675	1685	1696	rBV	396102	755308	92.21%	14.280%
17	12.094	1711	1724	1728	rBV6	4301	11745	1.43%	0.222%
18	12.847	1844	1852	1860	rVB	290260	485936	59.33%	9.187%
19	13.606	1975	1981	1987	rBV2	6664	11566	1.41%	0.219%
20	13.794	2005	2013	2022	rBV2	328712	629265	76.82%	11.897%
21	14.441	2115	2123	2127	rBV5	4169	10049	1.23%	0.190%
22	15.276	2259	2265	2271	rVB7	6622	12541	1.53%	0.237%

Sum of corrected areas: 5289351

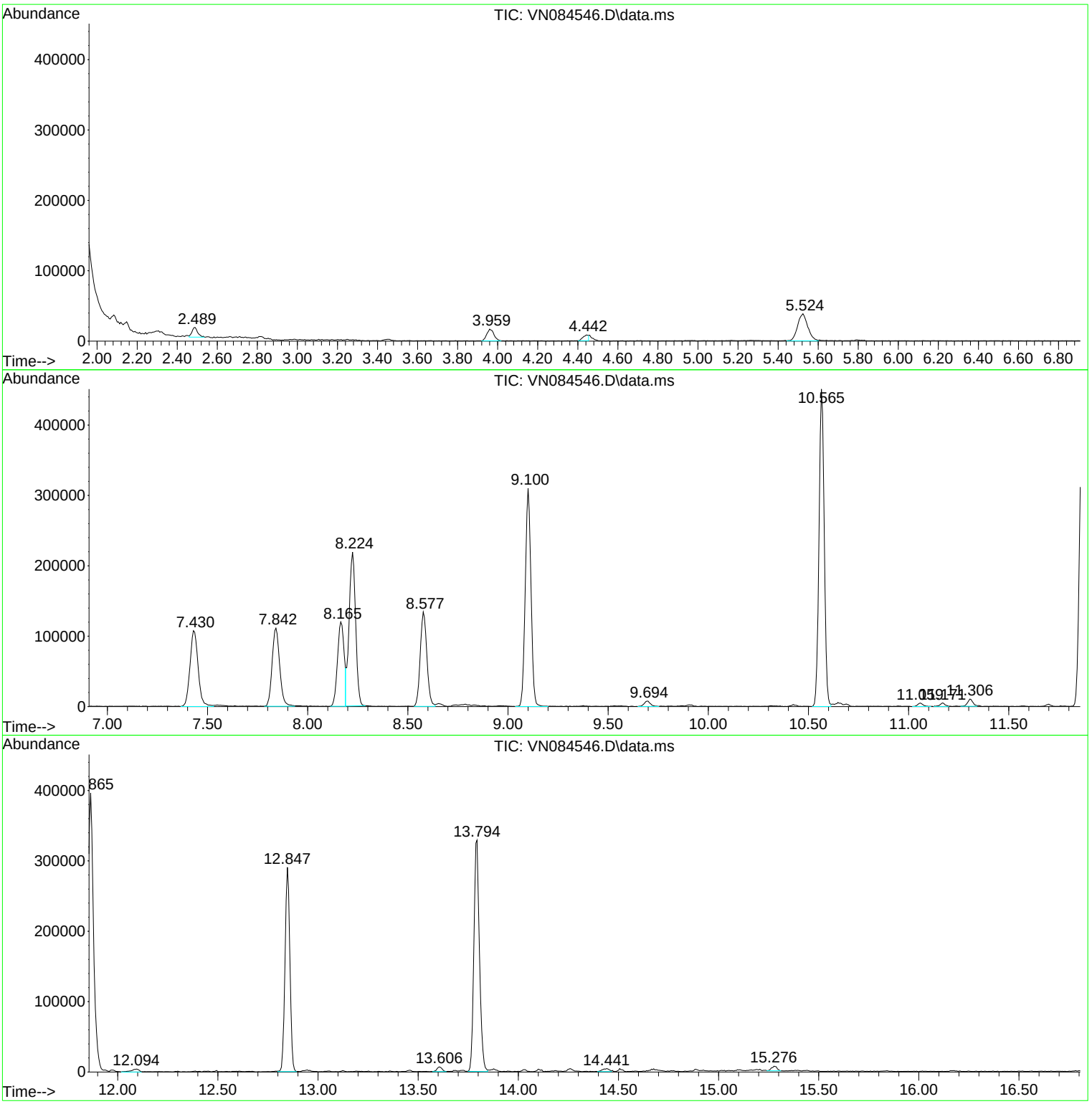
Sample Results: **VN084546.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102824\
Data File : VN084546.D
Acq On : 28 Oct 2024 17:53
Operator : JC\MD
Sample : P4528-01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
241023062-02-VOA

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.M
Quant Title : SW846 8260

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



Library Search Compound Report

Sample Results: **VN084546.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102824\
Data File : VN084546.D
Acq On : 28 Oct 2024 17:53
Operator : JC\MD
Sample : P4528-01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
241023062-02-VOA

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.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\VN102824\
Data File : VN084546.D
Acq On : 28 Oct 2024 17:53
Operator : JC\MD
Sample : P4528-01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
241023062-02-VOA

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.M
Quant Title : SW846 8260

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

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

Raw Data: **VN084520.D**

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

Report of Analysis

Client:	Garden State Laboratories, Inc.	Date Collected:	10/24/24
Project:	Waste Water 2024	Date Received:	10/24/24
Client Sample ID:	241023062-05-TRIP-BLANK	SDG No.:	P4528
Lab Sample ID:	P4528-02	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
VN084520.D	1		10/25/24 16:50	VN102524

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

Raw Data: **VN084520.D**

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

Report of Analysis

Client:	Garden State Laboratories, Inc.	Date Collected:	10/24/24
Project:	Waste Water 2024	Date Received:	10/24/24
Client Sample ID:	241023062-05-TRIP-BLANK	SDG No.:	P4528
Lab Sample ID:	P4528-02	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
VN084520.D	1		10/25/24 16:50	VN102524

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	60.3		74 - 125	121%	SPK: 50
1868-53-7	Dibromofluoromethane	57.8		75 - 124	116%	SPK: 50
2037-26-5	Toluene-d8	50.1		86 - 113	100%	SPK: 50
460-00-4	4-Bromofluorobenzene	45.5		77 - 121	91%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	125000	8.23			
540-36-3	1,4-Difluorobenzene	236000	9.1			
3114-55-4	Chlorobenzene-d5	203000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	80600	13.794			

Raw Data: **VN084520.D**

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

Report of Analysis

Client:	Garden State Laboratories, Inc.	Date Collected:	10/24/24
Project:	Waste Water 2024	Date Received:	10/24/24
Client Sample ID:	241023062-05-TRIP-BLANK	SDG No.:	P4528
Lab Sample ID:	P4528-02	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
VN084520.D	1		10/25/24 16:50	VN102524

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\VN102524\
Data File : VN084520.D
Acq On : 25 Oct 2024 16:50
Operator : JC\MD
Sample : P4528-02
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
241023062-05-TRIP-BLANK

Quant Time: Oct 26 06:40:58 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.M
Quant Title : SW846 8260
QLast Update : Tue Oct 01 07:11:01 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.230	168	125033	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	236367	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	203498	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	80554	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	111771	60.291	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 120.580%			
35) Dibromofluoromethane	8.165	113	90099	57.820	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 115.640%			
50) Toluene-d8	10.565	98	287511	50.149	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 100.300%			
62) 4-Bromofluorobenzene	12.847	95	95020	45.494	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 90.980%			

Target Compounds Qvalue

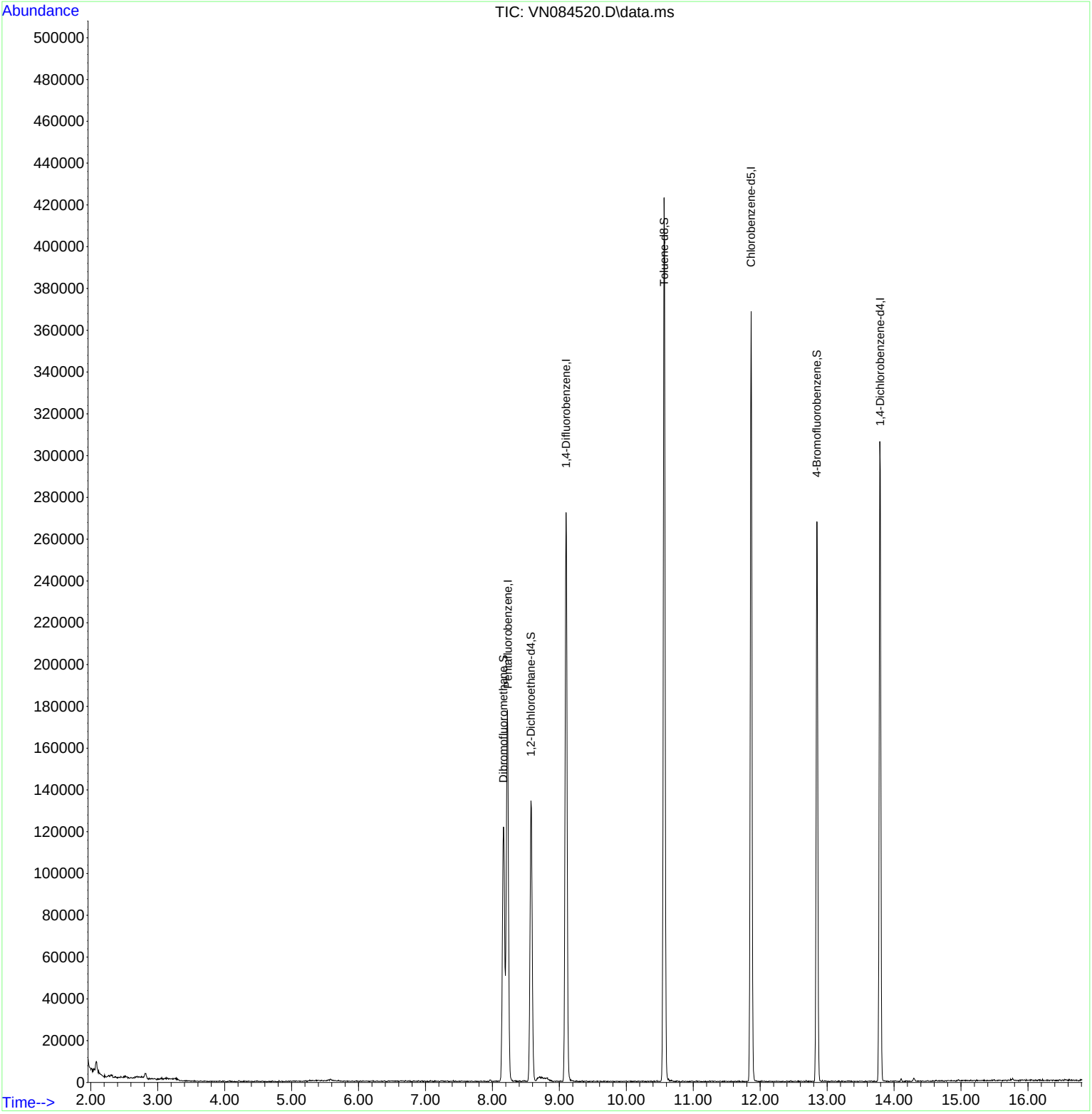
(#) = qualifier out of range (m) = manual integration (+) = signals summed

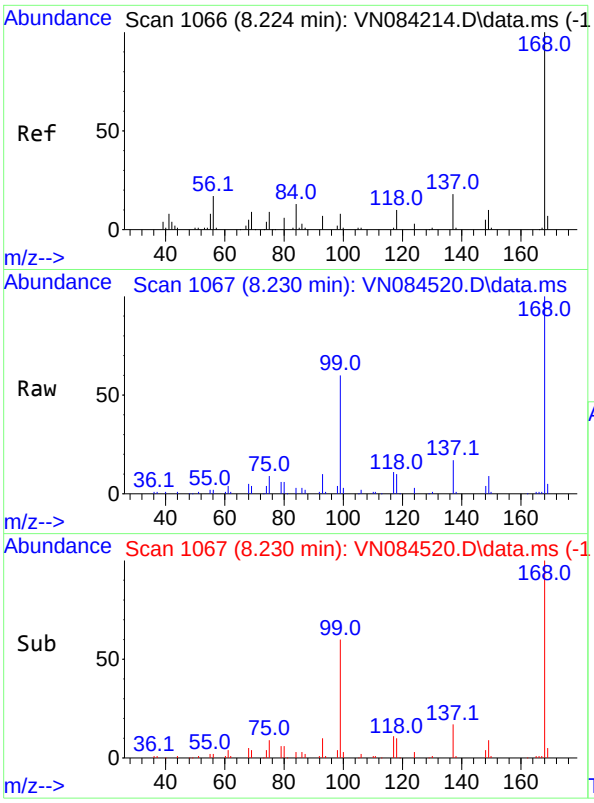
Sample Results: **VN084520.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102524\
Data File : VN084520.D
Acq On : 25 Oct 2024 16:50
Operator : JC\MD
Sample : P4528-02
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
241023062-05-TRIP-BLANK

Quant Time: Oct 26 06:40:58 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.M
Quant Title : SW846 8260
QLast Update : Tue Oct 01 07:11:01 2024
Response via : Initial Calibration



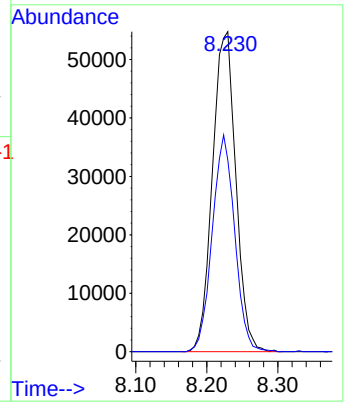


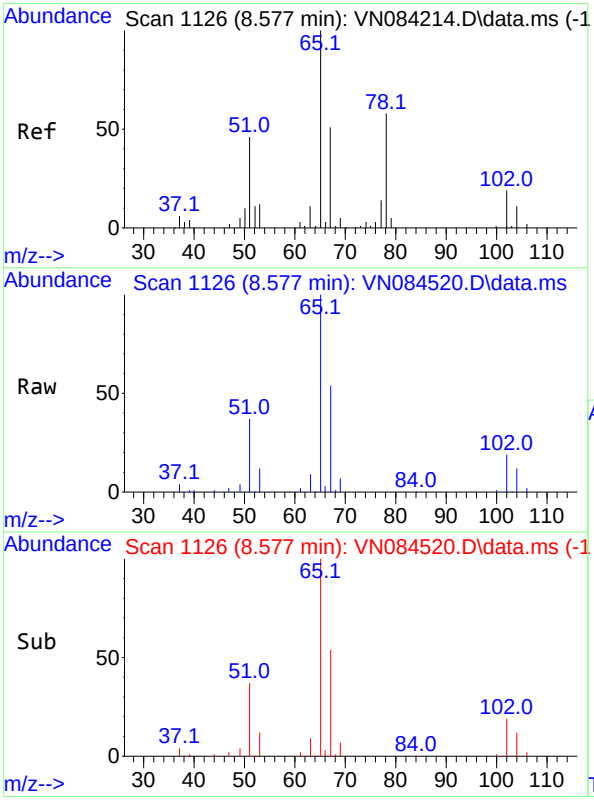
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.230 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN084520.D
Acq: 25 Oct 2024 16:50

Instrument :
MSVOA_N
ClientSampleId :
241023062-05-TRIP-BLANK

Tgt Ion:168 Resp: 125033

Ion	Ratio	Lower	Upper
168	100		
99	59.9	54.2	81.2

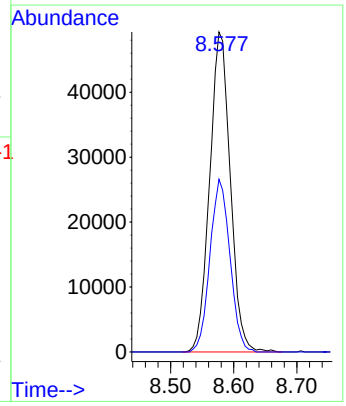


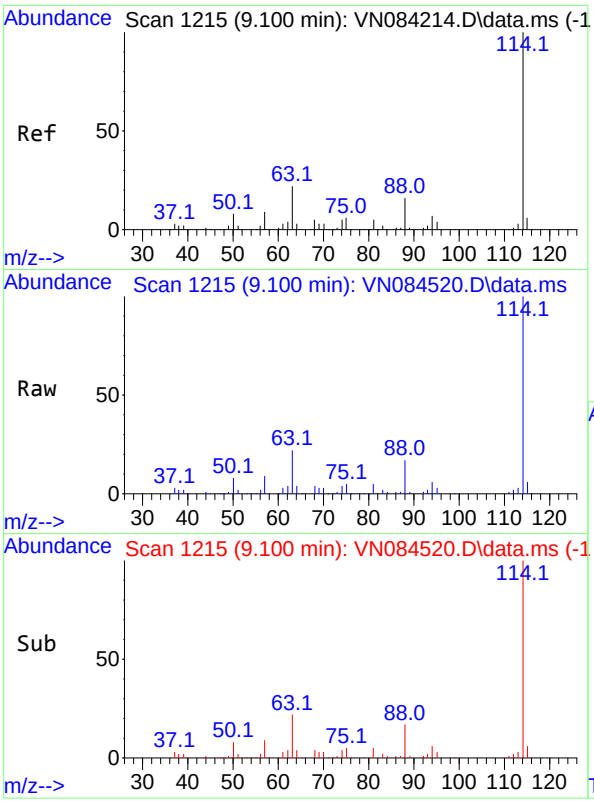


#33
1,2-Dichloroethane-d4
Concen: 60.291 ug/l
RT: 8.577 min Scan# 1126
Delta R.T. 0.000 min
Lab File: VN084520.D
Acq: 25 Oct 2024 16:50

Tgt Ion: 65 Resp: 111771

Ion	Ratio	Lower	Upper
65	100		
67	52.3	0.0	102.0



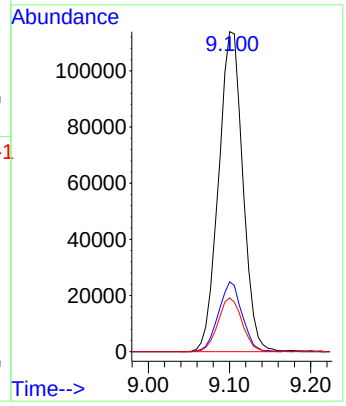


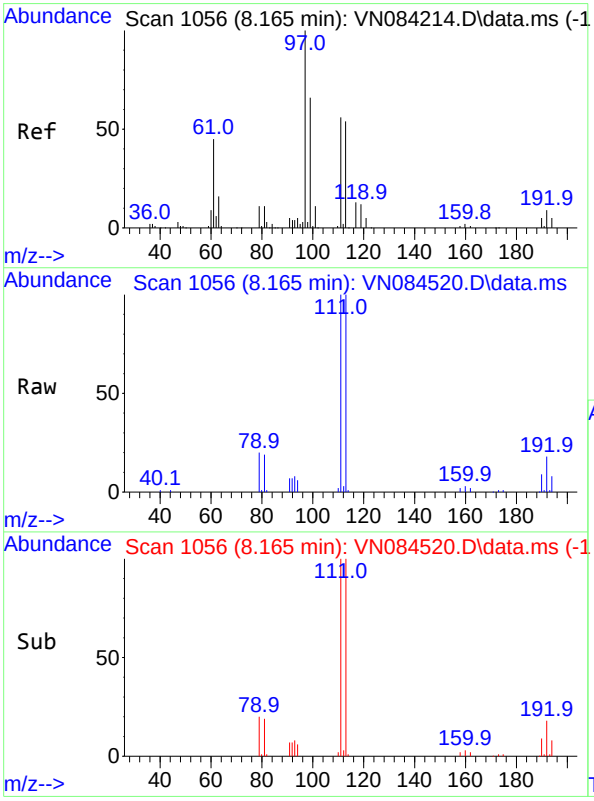
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.100 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN084520.D
Acq: 25 Oct 2024 16:50

Instrument :
MSVOA_N
ClientSampleId :
241023062-05-TRIP-BLANK

Tgt Ion:114 Resp: 236367

Ion	Ratio	Lower	Upper
114	100		
63	21.8	0.0	43.8
88	16.8	0.0	31.6

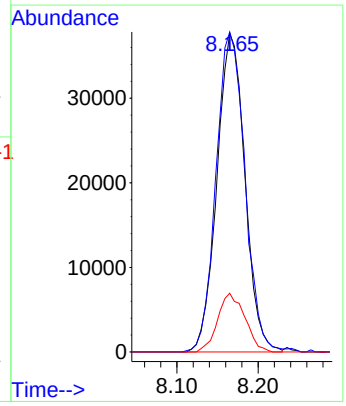


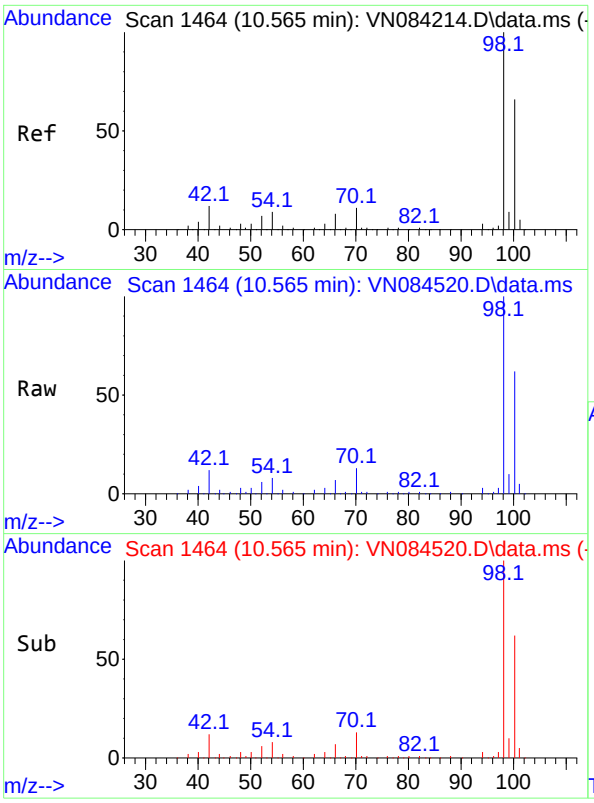


#35
Dibromofluoromethane
Concen: 57.820 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. 0.000 min
Lab File: VN084520.D
Acq: 25 Oct 2024 16:50

Tgt Ion:113 Resp: 90099

Ion	Ratio	Lower	Upper
113	100		
111	103.8	83.3	124.9
192	17.9	13.5	20.3



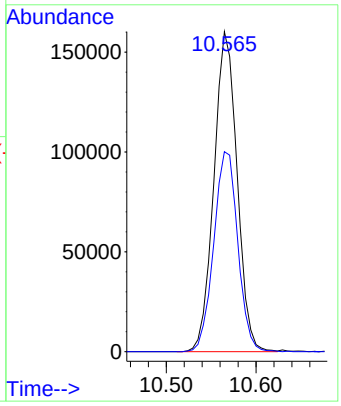


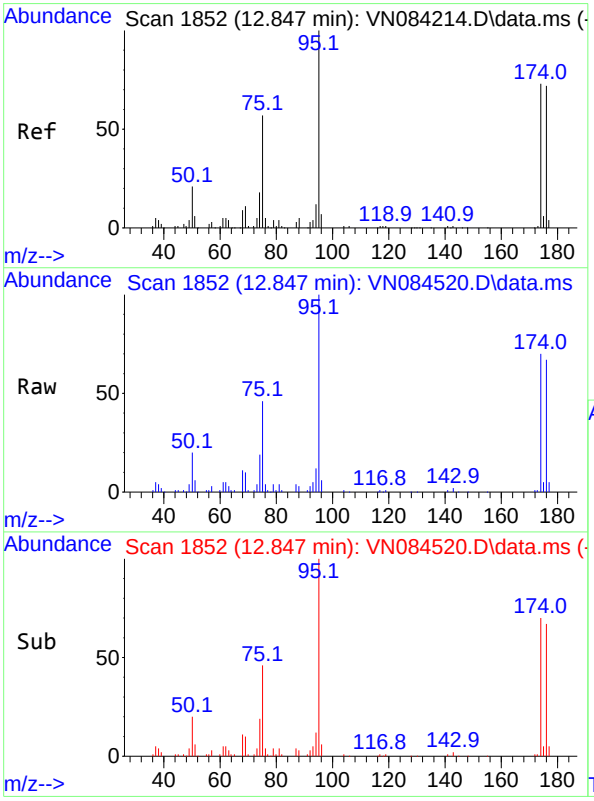
#50
Toluene-d8
Concen: 50.149 ug/l
RT: 10.565 min Scan# 14
Delta R.T. 0.000 min
Lab File: VN084520.D
Acq: 25 Oct 2024 16:50

Instrument :
MSVOA_N
ClientSampleId :
241023062-05-TRIP-BLANK

Tgt Ion: 98 Resp: 287511

Ion	Ratio	Lower	Upper
98	100		
100	64.9	52.7	79.1

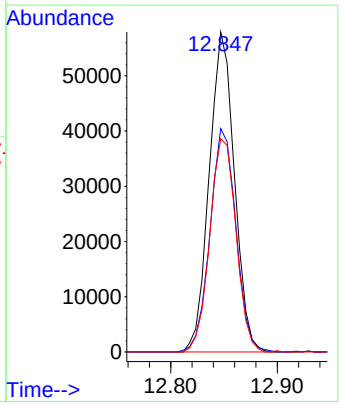


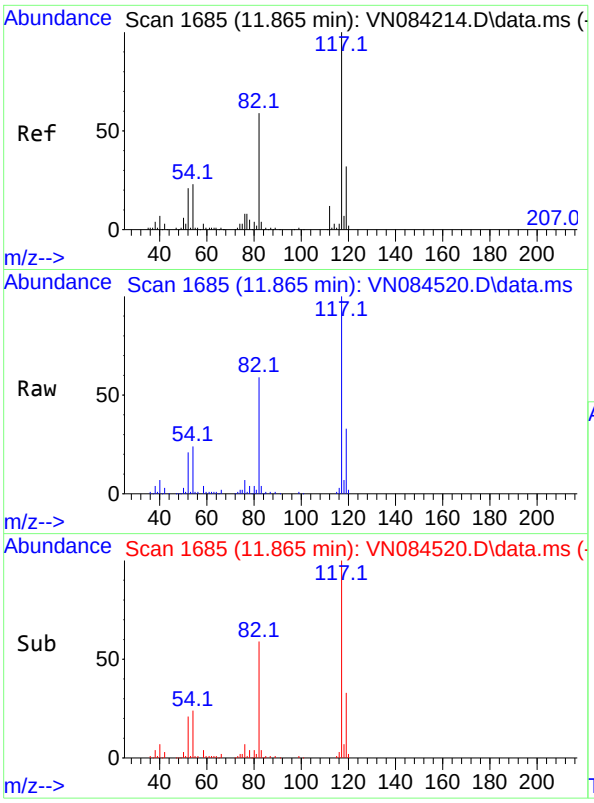


#62
4-Bromofluorobenzene
Concen: 45.494 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN084520.D
Acq: 25 Oct 2024 16:50

Tgt Ion: 95 Resp: 95020

Ion	Ratio	Lower	Upper
95	100		
174	71.9	0.0	145.2
176	69.2	0.0	140.0



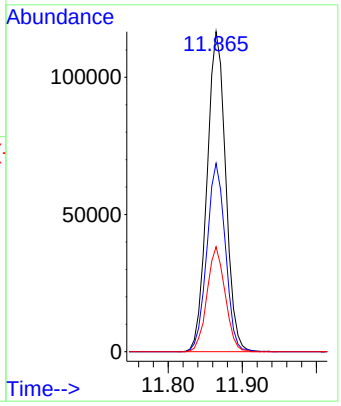


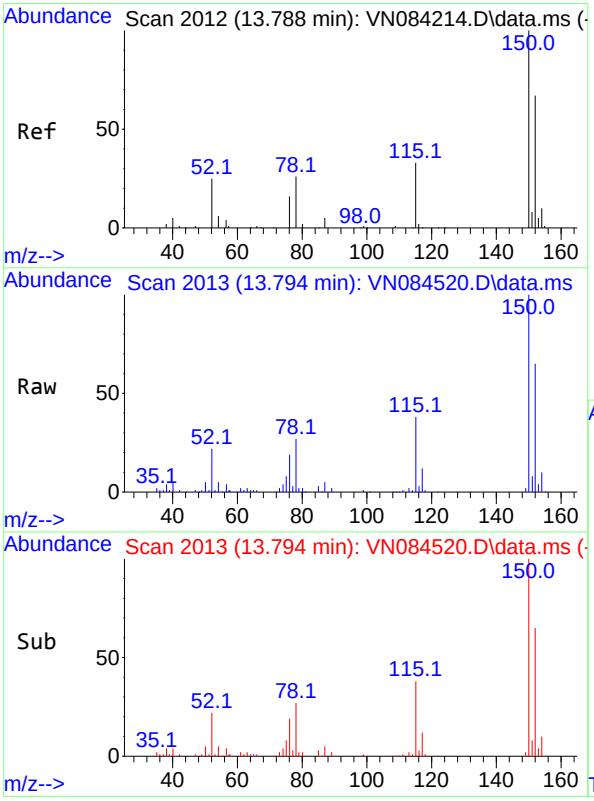
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN084520.D
Acq: 25 Oct 2024 16:50

Instrument :
MSVOA_N
ClientSampleId :
241023062-05-TRIP-BLANK

Tgt Ion:117 Resp: 203498

Ion	Ratio	Lower	Upper
117	100		
82	58.8	47.2	70.8
119	32.8	25.4	38.0

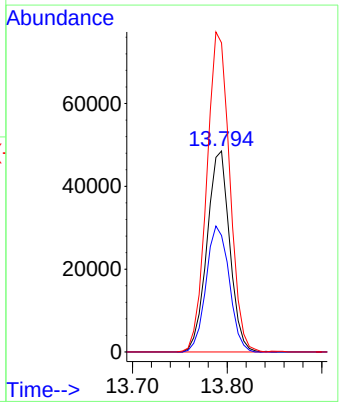




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.794 min Scan# 2013
Delta R.T. 0.006 min
Lab File: VN084520.D
Acq: 25 Oct 2024 16:50

Tgt Ion:152 Resp: 80554

Ion	Ratio	Lower	Upper
152	100		
115	64.0	31.3	93.9
150	161.0	0.0	349.8



Sample Results: **VN084520.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102524\
Data File : VN084520.D
Acq On : 25 Oct 2024 16:50
Operator : JC\MD
Sample : P4528-02
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
241023062-05-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\82N093024W.M
Title : SW846 8260

Signal : TIC: VN084520.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.083	19	22	27	rVB3	5531	8805	1.15%	0.224%
2	8.165	1045	1056	1061	rBV2	121850	299391	39.00%	7.623%
3	8.224	1061	1066	1077	rVB2	177434	394407	51.38%	10.042%
4	8.577	1116	1126	1138	rBV3	134373	303921	39.59%	7.738%
5	9.100	1206	1215	1226	rBV	272308	560833	73.07%	14.280%
6	10.565	1453	1464	1474	rBV	423011	767580	100.00%	19.544%
7	11.865	1677	1685	1695	rBV	368461	636602	82.94%	16.209%
8	12.847	1845	1852	1864	rVB	267990	445435	58.03%	11.342%
9	13.788	2005	2012	2023	rBV	306276	510435	66.50%	12.997%

Sum of corrected areas: 3927409

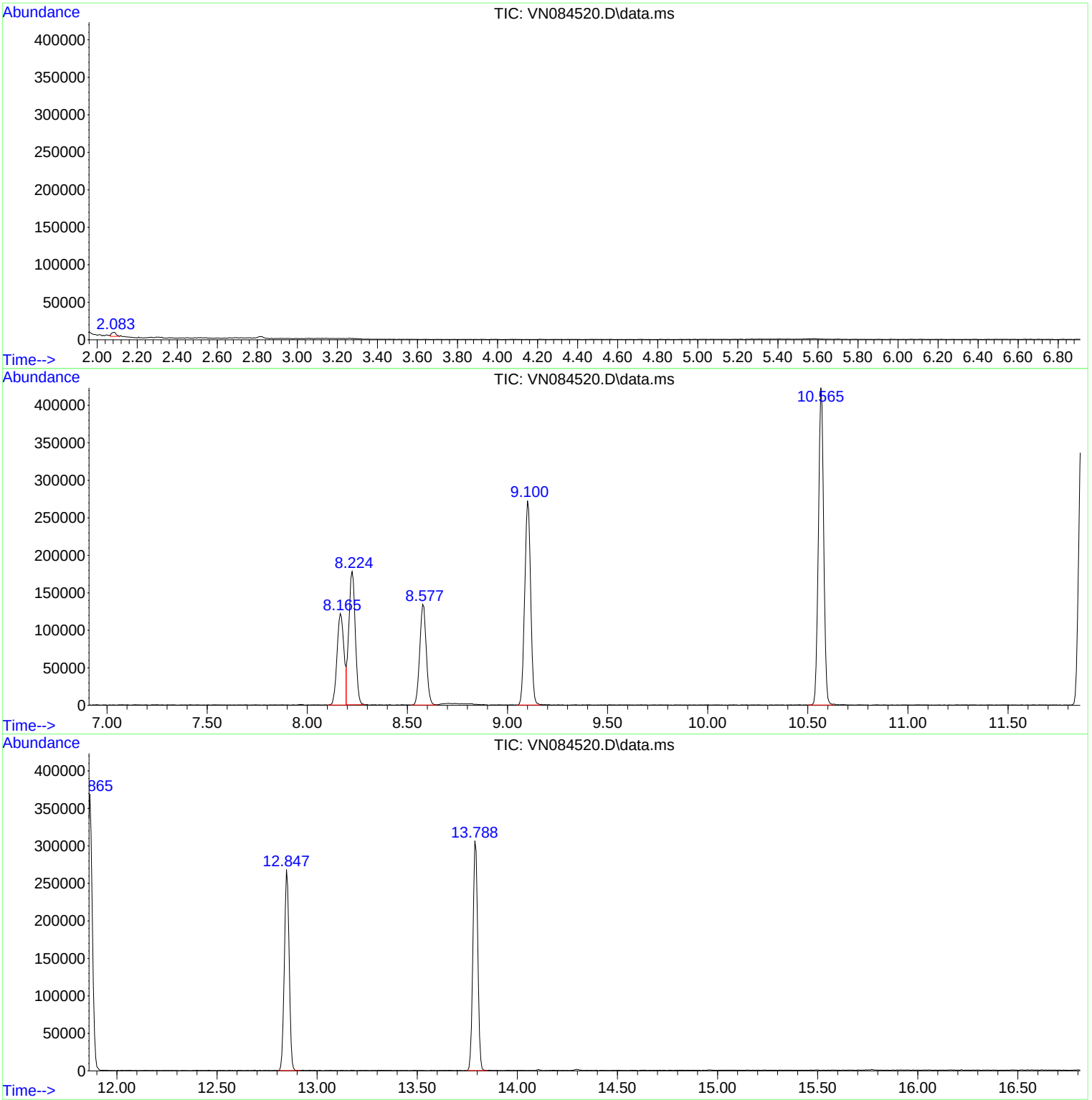
Sample Results: **VN084520.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102524\
Data File : VN084520.D
Acq On : 25 Oct 2024 16:50
Operator : JC\MD
Sample : P4528-02
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
241023062-05-TRIP-BLANK

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.M
Quant Title : SW846 8260

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



Library Search Compound Report

Sample Results: **VN084520.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102524\
Data File : VN084520.D
Acq On : 25 Oct 2024 16:50
Operator : JC\MD
Sample : P4528-02
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
241023062-05-TRIP-BLANK

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.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\VN102524\
Data File : VN084520.D
Acq On : 25 Oct 2024 16:50
Operator : JC\MD
Sample : P4528-02
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
241023062-05-TRIP-BLANK

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.M
Quant Title : SW846 8260

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

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

CALIBRATION SUMMARY

Raw Data

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.: P4528 SAS No.: P4528 SDG No.: P4528

Instrument ID: MSVOA_N Calibration Date(s): 09/30/2024 09/30/2024

Heated Purge: (Y/N) N Calibration Time(s): 12:25 14:48

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

LAB FILE ID: RRF100 = VN084213.D RRF050 = VN084214.D RRF020 = VN084215.D
RRF010 = VN084216.D RRF005 = VN084217.D RRF001 = VN084218.D

COMPOUND	RRF100	RRF050	RRF020	RRF010	RRF005	RRF001	$\overline{RRF}$	% RSD
Dichlorodifluoromethane	0.567	0.613	0.600	0.562	0.607	0.600	0.591	3.7
Chloromethane	0.619	0.671	0.677	0.648	0.747	0.690	0.675	6.4
Vinyl Chloride	0.611	0.667	0.665	0.641	0.724	0.617	0.654	6.4
Bromomethane	0.368	0.432	0.432	0.424	0.501		0.431	10.9
Chloroethane	0.375	0.419	0.430	0.433	0.522	0.632	0.468	19.9
Trichlorofluoromethane	0.953	1.060	1.047	0.959	1.113	0.978	1.019	6.4
1,1,2-Trichlorotrifluoroethane	0.542	0.590	0.603	0.532	0.633	0.602	0.584	6.7
1,1-Dichloroethene	0.538	0.587	0.596	0.533	0.631	0.493	0.563	8.9
Acetone	0.299	0.342	0.337	0.298	0.336	0.299	0.318	6.8
Carbon Disulfide	1.588	1.723	1.746	1.650	1.908	2.080	1.782	10.2
Methyl tert-butyl Ether	1.825	2.033	2.035	1.802	2.049	1.656	1.900	8.6
Methyl Acetate	0.607	0.707	0.694	0.691	0.765	0.700	0.694	7.3
Methylene Chloride	0.594	0.655	0.661	0.618	0.669	0.686	0.647	5.3
trans-1,2-Dichloroethene	0.555	0.622	0.619	0.570	0.627	0.546	0.590	6.2
1,1-Dichloroethane	1.075	1.193	1.163	1.084	1.226	1.046	1.131	6.4
Cyclohexane	0.970	1.068	1.084	1.047	1.321		1.098	12
2-Butanone	0.395	0.452	0.465	0.419	0.467	0.404	0.434	7.3
Carbon Tetrachloride	0.515	0.549	0.553	0.508	0.545	0.482	0.525	5.4
cis-1,2-Dichloroethene	0.670	0.741	0.741	0.655	0.767	0.703	0.713	6.2
Bromochloromethane	0.472	0.494	0.486	0.423	0.619	0.535	0.505	13.2
Chloroform	1.083	1.204	1.205	1.117	1.259	1.181	1.175	5.5
1,1,1-Trichloroethane	0.997	1.102	1.089	1.018	1.154	0.972	1.055	6.7
Methylcyclohexane	0.567	0.583	0.577	0.507	0.534	0.428	0.533	11
Benzene	1.434	1.553	1.559	1.410	1.574	1.421	1.492	5.2
1,2-Dichloroethane	0.480	0.528	0.524	0.498	0.544	0.460	0.506	6.3
Trichloroethene	0.334	0.362	0.361	0.329	0.379	0.325	0.348	6.3
1,2-Dichloropropane	0.346	0.375	0.380	0.339	0.388	0.289	0.353	10.4
Bromodichloromethane	0.521	0.557	0.556	0.497	0.570	0.475	0.529	7.2
4-Methyl-2-Pentanone	0.449	0.508	0.510	0.468	0.484	0.387	0.468	9.9
Toluene	0.904	0.970	0.963	0.861	0.920	0.840	0.910	5.8

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

Raw Data

Alliance TECHNICAL GROUP

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.: P4528 SAS No.: P4528 SDG No.: P4528

Instrument ID: MSVOA_N Calibration Date(s): 09/30/2024 09/30/2024

Heated Purge: (Y/N) N Calibration Time(s): 12:25 14:48

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

LAB FILE ID: RRF100 = VN084213.D RRF050 = VN084214.D RRF020 = VN084215.D
RRF010 = VN084216.D RRF005 = VN084217.D RRF001 = VN084218.D

COMPOUND	RRF100	RRF050	RRF020	RRF010	RRF005	RRF001	$\overline{RRF}$	% RSD
t-1,3-Dichloropropene	0.562	0.590	0.573	0.517	0.564	0.430	0.539	10.9
cis-1,3-Dichloropropene	0.592	0.638	0.608	0.569	0.606	0.469	0.580	10.2
1,1,2-Trichloroethane	0.317	0.349	0.347	0.316	0.340	0.288	0.326	7.3
2-Hexanone	0.341	0.387	0.387	0.340	0.357	0.285	0.349	10.8
Dibromochloromethane	0.384	0.418	0.409	0.374	0.396	0.330	0.385	8.1
1,2-Dibromoethane	0.328	0.358	0.362	0.315	0.361	0.309	0.339	7.2
Tetrachloroethene	0.323	0.359	0.351	0.338	0.373	0.346	0.348	5
Chlorobenzene	1.068	1.170	1.143	1.069	1.173	1.028	1.109	5.5
Ethyl Benzene	1.988	2.121	2.028	1.840	2.030	1.756	1.961	6.9
m/p-Xylenes	0.741	0.806	0.779	0.695	0.729	0.600	0.725	10
o-Xylene	0.714	0.774	0.738	0.666	0.734	0.491	0.686	14.9
Styrene	1.234	1.312	1.238	1.112	1.159	0.918	1.162	11.9
Bromoform	0.282	0.315	0.303	0.260	0.288	0.239	0.281	10
Isopropylbenzene	3.737	4.132	4.055	3.677	3.864	3.428	3.815	6.8
1,1,2,2-Tetrachloroethane	1.001	1.183	1.187	1.127	1.291	1.095	1.147	8.5
1,3-Dichlorobenzene	1.624	1.787	1.780	1.646	1.843	1.679	1.727	5.1
1,4-Dichlorobenzene	1.628	1.784	1.734	1.638	1.889	1.789	1.744	5.7
1,2-Dichlorobenzene	1.555	1.710	1.740	1.613	1.769	1.770	1.693	5.3
1,2-Dibromo-3-Chloropropane	0.209	0.238	0.253	0.242	0.271	0.207	0.237	10.4
1,2,4-Trichlorobenzene	0.859	0.933	0.923	0.792	0.839	0.657	0.834	12.2
1,2,3-Trichlorobenzene	0.816	0.896	0.903	0.820	0.822	0.751	0.835	6.8
1,2-Dichloroethane-d4	0.673	0.737	0.764	0.712	0.821		0.741	7.5
Dibromofluoromethane	0.308	0.324	0.341	0.316	0.359		0.330	6.1
Toluene-d8	1.189	1.243	1.242	1.148	1.242		1.213	3.5
4-Bromofluorobenzene	0.447	0.452	0.449	0.406	0.456		0.442	4.6

* 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.

Response Factor Report MSVOA_N_NEW

Method Path : Z:\voasrv\HPCHEM1\MSVOA_N\methods\
Method File : 82N093024W.M
Title : SW846 8260
Last Update : Tue Oct 01 07:11:01 2024
Response Via : Initial Calibration

Calibration Files
1 =VN084218.D 5 =VN084217.D 10 =VN084216.D 20 =VN084215.D 50 =VN084214.D 100 =VN084213.
D

		Compound	1	5	10	20	50	100	Avg	%RSD
1)	I	Pentafluorobenzene	----------ISTD----------							
2)	T	Dichlorodifluo...	0.600	0.607	0.562	0.600	0.613	0.567	0.591	3.67
3)	P	Chloromethane	0.690	0.747	0.648	0.677	0.671	0.619	0.675	6.39
4)	C	Vinyl Chloride	0.617	0.724	0.641	0.665	0.667	0.611	0.654	6.37#
5)	T	Bromomethane		0.501	0.424	0.432	0.432	0.368	0.431	10.93
6)	T	Chloroethane	0.632	0.522	0.433	0.430	0.419	0.375	0.468	19.90
7)	T	Trichlorofluor...	0.978	1.113	0.959	1.047	1.060	0.953	1.019	6.36
8)	T	Diethyl Ether	0.363	0.398	0.352	0.408	0.390	0.355	0.378	6.36
9)	T	1,1,2-Trichlor...	0.602	0.633	0.532	0.603	0.590	0.542	0.584	6.68
10)	T	Methyl Iodide		0.764	0.688	0.769	0.806	0.731	0.752	5.87
11)	T	Tert butyl alc...		0.143	0.116	0.128	0.123	0.101	0.122	12.49
12)	CM	1,1-Dichloroet...	0.493	0.631	0.533	0.596	0.587	0.538	0.563	8.94#
13)	T	Acrolein		0.162	0.130	0.135	0.142	0.131	0.140	9.47
14)	T	Allyl chloride	0.888	1.097	0.896	1.086	0.995	0.905	0.978	9.85
15)	T	Acrylonitrile	0.306	0.329	0.300	0.324	0.316	0.277	0.309	6.10
16)	T	Acetone	0.299	0.336	0.298	0.337	0.342	0.299	0.318	6.80
17)	T	Carbon Disulfide	2.080	1.908	1.650	1.746	1.723	1.588	1.782	10.18
18)	T	Methyl Acetate	0.700	0.765	0.691	0.694	0.707	0.607	0.694	7.27
19)	T	Methyl tert-bu...	1.656	2.049	1.802	2.035	2.033	1.825	1.900	8.57
20)	T	Methylene Chlo...	0.686	0.669	0.618	0.661	0.655	0.594	0.647	5.29
21)	T	trans-1,2-Dich...	0.546	0.627	0.570	0.619	0.622	0.555	0.590	6.21
22)	T	Diisopropyl ether	1.756	2.207	1.900	2.170	2.164	1.938	2.022	9.10
23)	T	Vinyl Acetate	1.196	1.585	1.411	1.655	1.648	1.505	1.500	11.67
24)	P	1,1-Dichloroet...	1.046	1.226	1.084	1.163	1.193	1.075	1.131	6.43
25)	T	2-Butanone	0.404	0.467	0.419	0.465	0.452	0.395	0.434	7.35
26)	T	2,2-Dichloropr...	0.904	1.086	0.983	1.078	1.082	0.985	1.020	7.31
27)	T	cis-1,2-Dichlo...	0.703	0.767	0.655	0.741	0.741	0.670	0.713	6.19
28)	T	Bromochloromet...	0.535	0.619	0.423	0.486	0.494	0.472	0.505	13.20
29)	T	Tetrahydrofuran	0.249	0.290	0.266	0.281	0.283	0.236	0.268	8.01
30)	C	Chloroform	1.181	1.259	1.116	1.205	1.204	1.083	1.175	5.49#
31)	T	Cyclohexane		1.321	1.047	1.084	1.068	0.970	1.098	12.01
32)	T	1,1,1-Trichlor...	0.972	1.154	1.018	1.089	1.102	0.997	1.055	6.68
33)	S	1,2-Dichloroet...		0.821	0.712	0.764	0.737	0.673	0.741	7.51
34)	I	1,4-Difluorobenzene	----------ISTD----------							
35)	S	Dibromofluorom...		0.359	0.316	0.341	0.324	0.308	0.330	6.14
36)	T	1,1-Dichloropr...	0.417	0.504	0.468	0.501	0.509	0.474	0.479	7.25
37)	T	Ethyl Acetate	0.447	0.560	0.488	0.496	0.503	0.452	0.491	8.34
38)	T	Carbon Tetrach...	0.482	0.545	0.508	0.553	0.549	0.515	0.525	5.41
39)	T	Methylcyclohexane	0.428	0.534	0.507	0.577	0.583	0.567	0.533	11.04
40)	TM	Benzene	1.421	1.574	1.410	1.559	1.553	1.434	1.492	5.18
41)	T	Methacrylonitrile	0.257	0.273	0.251	0.284	0.287	0.247	0.267	6.50
42)	TM	1,2-Dichloroet...	0.460	0.544	0.498	0.524	0.528	0.480	0.506	6.32
43)	T	Isopropyl Acetate	1.312	0.973	0.857	0.930	0.898	0.804	0.962	18.82
44)	TM	Trichloroethene	0.325	0.379	0.329	0.361	0.362	0.334	0.348	6.32
45)	C	1,2-Dichloropr...	0.289	0.388	0.339	0.380	0.375	0.346	0.353	10.44#
46)	T	Dibromomethane	0.197	0.250	0.226	0.258	0.260	0.238	0.238	9.99
47)	T	Bromodichlorom...	0.475	0.570	0.497	0.556	0.557	0.521	0.529	7.17
48)	T	Methyl methacr...	0.314	0.408	0.371	0.411	0.418	0.376	0.383	10.14
49)	T	1,4-Dioxane	0.007	0.007	0.007	0.007	0.007	0.006	0.007	5.48
50)	S	Toluene-d8		1.242	1.148	1.242	1.243	1.189	1.213	3.54
51)	T	4-Methyl-2-Pen...	0.387	0.484	0.468	0.510	0.508	0.449	0.468	9.88
52)	CM	Toluene	0.840	0.920	0.861	0.963	0.970	0.904	0.910	5.79#
53)	T	t-1,3-Dichloro...	0.430	0.564	0.517	0.573	0.590	0.562	0.539	10.92
54)	T	cis-1,3-Dichlo...	0.469	0.606	0.569	0.608	0.638	0.592	0.580	10.18
55)	T	1,1,2-Trichlor...	0.288	0.340	0.316	0.347	0.349	0.317	0.326	7.33

Method Path : Z:\voasrv\HPCHEM1\MSVOA_N\methods\
Method File : 82N093024W.M

56)	T	Ethyl methacry...	0.414	0.548	0.513	0.587	0.602	0.556	0.537	12.63
57)	T	1,3-Dichloropr...	0.533	0.623	0.551	0.618	0.616	0.555	0.583	6.95
58)	T	2-Chloroethyl ...	0.213	0.267	0.233	0.232	0.280	0.268	0.249	10.63
59)	T	2-Hexanone	0.285	0.357	0.340	0.387	0.387	0.341	0.349	10.80
60)	T	Dibromochlorom...	0.330	0.396	0.374	0.409	0.418	0.384	0.385	8.12
61)	T	1,2-Dibromoethane	0.309	0.361	0.315	0.362	0.358	0.328	0.339	7.18
62)	S	4-Bromofluorob...		0.456	0.406	0.449	0.452	0.447	0.442	4.62
63)	I	Chlorobenzene-d5	----------ISTD----------							
64)	T	Tetrachloroethene	0.346	0.373	0.338	0.351	0.359	0.323	0.348	4.98
65)	PM	Chlorobenzene	1.028	1.173	1.069	1.143	1.170	1.068	1.109	5.52
66)	T	1,1,1,2-Tetrac...	0.334	0.409	0.366	0.409	0.404	0.369	0.382	8.01
67)	C	Ethyl Benzene	1.756	2.030	1.840	2.028	2.121	1.988	1.961	6.94#
68)	T	m/p-Xylenes	0.600	0.729	0.695	0.779	0.806	0.741	0.725	10.00
69)	T	o-Xylene	0.491	0.734	0.666	0.738	0.774	0.714	0.686	14.87
70)	T	Styrene	0.918	1.159	1.112	1.238	1.312	1.234	1.162	11.87
71)	P	Bromoform	0.239	0.288	0.260	0.303	0.315	0.282	0.281	9.98
72)	I	1,4-Dichlorobenzen...	----------ISTD----------							
73)	T	Isopropylbenzene	3.428	3.864	3.677	4.055	4.132	3.737	3.815	6.78
74)	T	N-amyl acetate	1.583	1.758	1.705	1.827	1.857	1.636	1.728	6.20
75)	P	1,1,2,2-Tetrac...	1.095	1.291	1.127	1.187	1.183	1.001	1.147	8.52
76)	T	1,2,3-Trichlor...	0.895	1.251	0.999	1.003	1.125	0.851	1.021	14.47
77)	T	Bromobenzene	0.891	0.982	0.896	0.955	0.947	0.851	0.920	5.33
78)	T	n-propylbenzene	3.455	4.544	4.401	4.719	4.906	4.498	4.421	11.44
79)	T	2-Chlorotoluene	2.640	2.948	2.737	2.891	3.013	2.696	2.821	5.34
80)	T	1,3,5-Trimethy...	2.369	3.209	3.077	3.358	3.491	3.170	3.112	12.62
81)	T	trans-1,4-Dich...		0.408	0.428	0.435	0.451	0.407	0.426	4.34
82)	T	4-Chlorotoluene	2.537	2.968	2.777	2.962	3.029	2.765	2.840	6.46
83)	T	tert-Butylbenzene	2.407	2.844	2.681	2.891	3.027	2.748	2.766	7.68
84)	T	1,2,4-Trimethy...	2.334	3.209	3.102	3.449	3.522	3.195	3.135	13.53
85)	T	sec-Butylbenzene	2.842	3.641	3.715	4.021	4.143	3.787	3.691	12.39
86)	T	p-Isopropyltol...	2.204	3.030	2.995	3.361	3.509	3.215	3.052	15.04
87)	T	1,3-Dichlorobe...	1.679	1.843	1.646	1.780	1.787	1.624	1.727	5.13
88)	T	1,4-Dichlorobe...	1.789	1.889	1.638	1.734	1.784	1.628	1.744	5.71
89)	T	n-Butylbenzene	2.386	2.689	2.567	2.961	3.092	2.912	2.768	9.63
90)	T	Hexachloroethane	0.564	0.678	0.608	0.637	0.639	0.590	0.620	6.51
91)	T	1,2-Dichlorobe...	1.770	1.769	1.613	1.740	1.710	1.555	1.693	5.28
92)	T	1,2-Dibromo-3-...	0.207	0.271	0.242	0.253	0.238	0.209	0.237	10.44
93)	T	1,2,4-Trichlor...	0.657	0.839	0.792	0.923	0.933	0.859	0.834	12.15
94)	T	Hexachlorobuta...	0.422	0.460	0.401	0.445	0.397	0.370	0.416	7.98
95)	T	Naphthalene	2.467	2.702	2.657	2.935	3.079	2.747	2.764	7.79
96)	T	1,2,3-Trichlor...	0.751	0.822	0.820	0.903	0.896	0.816	0.835	6.83

(#) = Out of Range

Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN093024\
Data File : VN084213.D
Acq On : 30 Sep 2024 12:25
Operator : JC\MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

Reviewed By :John Carlone 10/01/2024
Supervised By :Mahesh Dadoda 10/01/2024

Quant Time: Oct 01 06:48:05 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.M
Quant Title : SW846 8260
QLast Update : Tue Oct 01 06:46:32 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Pentafluorobenzene	8.224	168	192402	50.000 ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	324582	50.000 ug/l	0.00
63) Chlorobenzene-d5	11.865	117	288467	50.000 ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	142880	50.000 ug/l	0.00
System Monitoring Compounds					
33) 1,2-Dichloroethane-d4	8.577	65	259018	90.797 ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 181.600%#		
35) Dibromofluoromethane	8.165	113	200166	93.542 ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 187.080%#		
50) Toluene-d8	10.565	98	772146	98.079 ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 196.160%#		
62) 4-Bromofluorobenzene	12.847	95	289867	101.065 ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 202.140%#		
Target Compounds					Qvalue
2) Dichlorodifluoromethane	2.124	85	218015	95.796 ug/l	94
3) Chloromethane	2.359	50	238104	91.628 ug/l	98
4) Vinyl Chloride	2.512	62	234942	93.338 ug/l	99
5) Bromomethane	2.936	94	141604	85.288 ug/l	94
6) Chloroethane	3.112	64	144394	80.099 ug/l	92
7) Trichlorofluoromethane	3.495	101	366907	93.608 ug/l	98
8) Diethyl Ether	3.953	74	136436	93.854 ug/l	99
9) 1,1,2-Trichlorotrifluo...	4.365	101	208443	92.811 ug/l	99
10) Methyl Iodide	4.589	142	281269	97.248 ug/l	97
11) Tert butyl alcohol	5.518	59	194750	414.018 ug/l	99
12) 1,1-Dichloroethene	4.336	96	206863	95.491 ug/l	95
13) Acrolein	4.177	56	251811	466.304 ug/l	99
14) Allyl chloride	5.018	41	348108	92.526 ug/l	99
15) Acrylonitrile	5.712	53	533270	448.931 ug/l	99
16) Acetone	4.424	43	576139	470.138 ug/l	99
17) Carbon Disulfide	4.712	76	611042	89.090 ug/l	100
18) Methyl Acetate	5.018	43	233708	87.499 ug/l	99
19) Methyl tert-butyl Ether	5.794	73	702366	96.061 ug/l	99
20) Methylene Chloride	5.277	84	228706	91.809 ug/l	91
21) trans-1,2-Dichloroethene	5.783	96	213704	94.160 ug/l	94
22) Diisopropyl ether	6.671	45	745614	95.811 ug/l	98
23) Vinyl Acetate	6.600	43	2895429	498.979 ug/l	99
24) 1,1-Dichloroethane	6.565	63	413523	95.021 ug/l	99
25) 2-Butanone	7.483	43	759354	454.946 ug/l	100
26) 2,2-Dichloropropane	7.488	77	378893	96.560 ug/l	99
27) cis-1,2-Dichloroethene	7.483	96	257696	93.962 ug/l	99
28) Bromochloromethane	7.812	49	181546	93.497 ug/l	100
29) Tetrahydrofuran	7.836	42	453342	440.124 ug/l	99
30) Chloroform	7.965	83	416595	92.156 ug/l	100
31) Cyclohexane	8.253	56	373445	88.380 ug/l	99
32) 1,1,1-Trichloroethane	8.165	97	383566	94.476 ug/l	98
36) 1,1-Dichloropropene	8.371	75	307616	98.969 ug/l	99
37) Ethyl Acetate	7.559	43	293597	92.073 ug/l	100
38) Carbon Tetrachloride	8.359	117	334398	98.077 ug/l	98
39) Methylcyclohexane	9.600	83	368299	106.466 ug/l	99
40) Benzene	8.606	78	931076	96.145 ug/l	100

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN093024\
Data File : VN084213.D
Acq On : 30 Sep 2024 12:25
Operator : JC\MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 01 06:48:05 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.M
Quant Title : SW846 8260
QLast Update : Tue Oct 01 06:46:32 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

Reviewed By :John Carlone 10/01/2024
Supervised By :Mahesh Dadoda 10/01/2024

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
41) Methacrylonitrile	7.777	41	160270	92.581 ug/l		97
42) 1,2-Dichloroethane	8.671	62	311563	94.900 ug/l		100
43) Isopropyl Acetate	8.688	43	521814	83.581 ug/l		100
44) Trichloroethene	9.347	130	216678	95.798 ug/l		97
45) 1,2-Dichloropropane	9.618	63	224724	98.095 ug/l		97
46) Dibromomethane	9.706	93	154739	100.091 ug/l		99
47) Bromodichloromethane	9.888	83	338406	98.526 ug/l		99
48) Methyl methacrylate	9.677	41	244061	98.163 ug/l		99
49) 1,4-Dioxane	9.694	88	82854	1810.110 ug/l		99
51) 4-Methyl-2-Pentanone	10.441	43	1456154	479.699 ug/l		100
52) Toluene	10.629	92	586544	99.324 ug/l		100
53) t-1,3-Dichloropropene	10.835	75	365099	104.280 ug/l		99
54) cis-1,3-Dichloropropene	10.312	75	384030	101.975 ug/l		98
55) 1,1,2-Trichloroethane	11.018	97	205711	97.170 ug/l		97
56) Ethyl methacrylate	10.871	69	360916	103.608 ug/l		99
57) 1,3-Dichloropropane	11.165	76	360601	95.326 ug/l		99
58) 2-Chloroethyl Vinyl ether	10.159	63	870416	538.640 ug/l		99
59) 2-Hexanone	11.194	43	1105736	487.363 ug/l		99
60) Dibromochloromethane	11.359	129	249435	99.721 ug/l		98
61) 1,2-Dibromoethane	11.465	107	212705	96.694 ug/l		100
64) Tetrachloroethene	11.100	164	186069	92.608 ug/l		99
65) Chlorobenzene	11.888	112	616423	96.376 ug/l		97
66) 1,1,1,2-Tetrachloroethane	11.959	131	212695	96.546 ug/l		99
67) Ethyl Benzene	11.959	91	1146786	101.385 ug/l		98
68) m/p-Xylenes	12.071	106	855381	204.437 ug/l		100
69) o-Xylene	12.394	106	412098	104.101 ug/l		99
70) Styrene	12.412	104	711855	106.165 ug/l		99
71) Bromoform	12.576	173	162862	100.412 ug/l	#	97
73) Isopropylbenzene	12.694	105	1067798	97.936 ug/l		100
74) N-amyl acetate	12.494	43	467641	94.716 ug/l		100
75) 1,1,2,2-Tetrachloroethane	12.935	83	286161	87.285 ug/l		98
76) 1,2,3-Trichloropropane	12.994	75	243293m	85.433 ug/l		
77) Bromobenzene	12.982	156	243075	92.425 ug/l		100
78) n-propylbenzene	13.035	91	1285399	101.754 ug/l		99
79) 2-Chlorotoluene	13.123	91	770341	95.567 ug/l		100
80) 1,3,5-Trimethylbenzene	13.170	105	905999	101.869 ug/l		100
81) trans-1,4-Dichloro-2-b...	12.735	75	116289	95.579 ug/l		98
82) 4-Chlorotoluene	13.218	91	790045	97.362 ug/l		100
83) tert-Butylbenzene	13.435	119	785331	99.349 ug/l		99
84) 1,2,4-Trimethylbenzene	13.482	105	913037	101.908 ug/l		99
85) sec-Butylbenzene	13.612	105	1082055	102.580 ug/l		100
86) p-Isopropyltoluene	13.729	119	918730	105.328 ug/l		100
87) 1,3-Dichlorobenzene	13.729	146	463998	94.046 ug/l		100
88) 1,4-Dichlorobenzene	13.812	146	465087	93.346 ug/l		99
89) n-Butylbenzene	14.053	91	832034	105.197 ug/l		99
90) Hexachloroethane	14.329	117	168712	95.289 ug/l		98
91) 1,2-Dichlorobenzene	14.106	146	444319	91.843 ug/l		99
92) 1,2-Dibromo-3-Chloropr...	14.717	75	59837	88.446 ug/l		98
93) 1,2,4-Trichlorobenzene	15.388	180	245477	103.017 ug/l		99
94) Hexachlorobutadiene	15.500	225	105801	89.034 ug/l		98
95) Naphthalene	15.635	128	784876	99.356 ug/l		99
96) 1,2,3-Trichlorobenzene	15.841	180	233126	97.736 ug/l		99

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN093024\
Data File : VN084213.D
Acq On : 30 Sep 2024 12:25
Operator : JC\MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

Reviewed By :John Carlone 10/01/2024
Supervised By :Mahesh Dadoda 10/01/2024

Quant Time: Oct 01 06:48:05 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.M
Quant Title : SW846 8260
QLast Update : Tue Oct 01 06:46:32 2024
Response via : Initial Calibration

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

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

ICAL Form

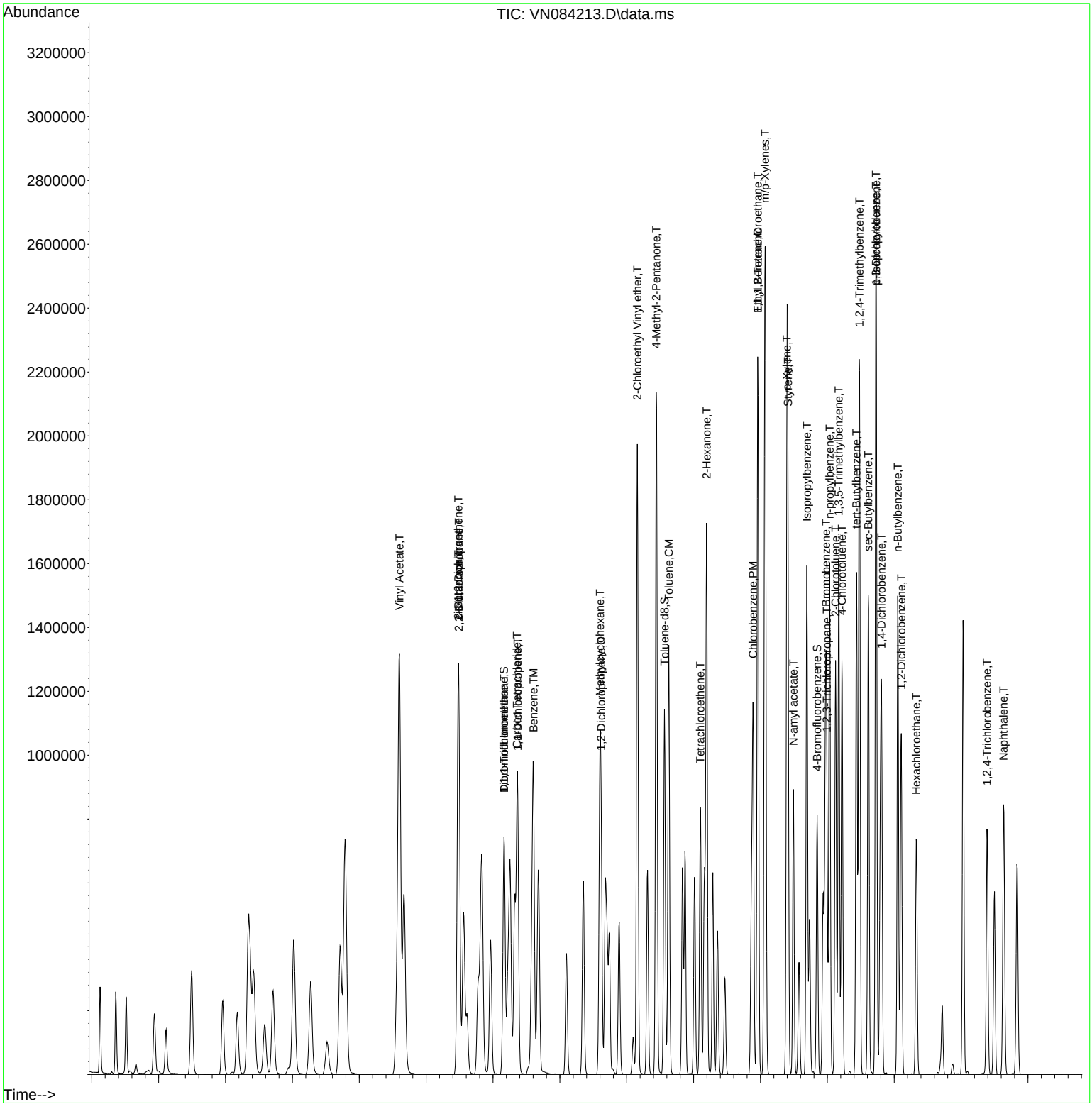
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN093024\
Data File : VN084213.D
Acq On : 30 Sep 2024 12:25
Operator : JC\MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 01 06:48:05 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.M
Quant Title : SW846 8260
QLast Update : Tue Oct 01 06:46:32 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

Reviewed By :John Carlone 10/01/2024
Supervised By :Mahesh Dadoda 10/01/2024



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN093024\
Data File : VN084214.D
Acq On : 30 Sep 2024 12:49
Operator : JC\MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 01 06:48:32 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.M
Quant Title : SW846 8260
QLast Update : Tue Oct 01 06:46:32 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 10/01/2024
Supervised By :Mahesh Dadoda 10/01/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.224	168	175379	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	304127	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	264820	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	127701	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	129300	49.725	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 99.440%			
35) Dibromofluoromethane	8.165	113	98531	49.143	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 98.280%			
50) Toluene-d8	10.565	98	377886	51.228	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 102.460%			
62) 4-Bromofluorobenzene	12.847	95	137388	51.124	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 102.240%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.124	85	107530	51.835	ug/l	100
3) Chloromethane	2.359	50	117689	49.686	ug/l	100
4) Vinyl Chloride	2.518	62	117031	51.007	ug/l	100
5) Bromomethane	2.953	94	75848	50.118	ug/l	100
6) Chloroethane	3.118	64	73440	44.693	ug/l	100
7) Trichlorofluoromethane	3.495	101	185982	52.055	ug/l	100
8) Diethyl Ether	3.959	74	68385	51.608	ug/l	100
9) 1,1,2-Trichlorotrifluo...	4.371	101	103552	50.583	ug/l	100
10) Methyl Iodide	4.595	142	141310	53.600	ug/l	100
11) Tert butyl alcohol	5.524	59	107986	251.850	ug/l	100
12) 1,1-Dichloroethene	4.342	96	102934	52.128	ug/l	100
13) Acrolein	4.177	56	124940	253.821	ug/l	100
14) Allyl chloride	5.024	41	174518	50.889	ug/l	100
15) Acrylonitrile	5.718	53	277346	256.145	ug/l	100
16) Acetone	4.424	43	299515	268.132	ug/l	100
17) Carbon Disulfide	4.712	76	302183	48.335	ug/l	100
18) Methyl Acetate	5.018	43	124007	50.934	ug/l	100
19) Methyl tert-butyl Ether	5.794	73	356478	53.487	ug/l	100
20) Methylene Chloride	5.277	84	114918	50.609	ug/l	100
21) trans-1,2-Dichloroethene	5.789	96	109048	52.711	ug/l	100
22) Diisopropyl ether	6.671	45	379516	53.501	ug/l	100
23) Vinyl Acetate	6.600	43	1444909	273.176	ug/l	100
24) 1,1-Dichloroethane	6.571	63	209222	52.742	ug/l	100
25) 2-Butanone	7.483	43	396369	260.524	ug/l	100
26) 2,2-Dichloropropane	7.488	77	189745	53.050	ug/l	100
27) cis-1,2-Dichloroethene	7.488	96	129873	51.951	ug/l	100
28) Bromochloromethane	7.812	49	86584	48.919	ug/l	100
29) Tetrahydrofuran	7.835	42	248328	264.488	ug/l	100
30) Chloroform	7.965	83	211178	51.249	ug/l	100
31) Cyclohexane	8.253	56	187282	48.624	ug/l	100
32) 1,1,1-Trichloroethane	8.171	97	193315	52.237	ug/l	100
36) 1,1-Dichloropropene	8.371	75	154855	53.172	ug/l	100
37) Ethyl Acetate	7.559	43	153024	51.216	ug/l	100
38) Carbon Tetrachloride	8.359	117	167086	52.301	ug/l	100
39) Methylcyclohexane	9.600	83	177433	54.741	ug/l	100
40) Benzene	8.606	78	472170	52.037	ug/l	100

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN093024\
Data File : VN084214.D
Acq On : 30 Sep 2024 12:49
Operator : JC\MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 10/01/2024
Supervised By :Mahesh Dadoda 10/01/2024

Quant Time: Oct 01 06:48:32 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.M
Quant Title : SW846 8260
QLast Update : Tue Oct 01 06:46:32 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
41) Methacrylonitrile	7.777	41	87365	53.861 ug/l	100
42) 1,2-Dichloroethane	8.671	62	160606	52.210 ug/l	100
43) Isopropyl Acetate	8.688	43	272992	46.667 ug/l	100
44) Trichloroethene	9.347	130	110119	51.961 ug/l	100
45) 1,2-Dichloropropane	9.618	63	114143	53.176 ug/l	100
46) Dibromomethane	9.706	93	79007	54.542 ug/l	100
47) Bromodichloromethane	9.888	83	169263	52.595 ug/l	100
48) Methyl methacrylate	9.677	41	127042	54.534 ug/l	100
49) 1,4-Dioxane	9.694	88	44512	1037.858 ug/l	100
51) 4-Methyl-2-Pentanone	10.441	43	772927	271.750 ug/l	100
52) Toluene	10.629	92	295099	53.332 ug/l	100
53) t-1,3-Dichloropropene	10.835	75	179453	54.703 ug/l	100
54) cis-1,3-Dichloropropene	10.312	75	193952	54.966 ug/l	100
55) 1,1,2-Trichloroethane	11.012	97	106288	53.583 ug/l	100
56) Ethyl methacrylate	10.871	69	183059	56.085 ug/l	100
57) 1,3-Dichloropropane	11.159	76	187372	52.864 ug/l	100
58) 2-Chloroethyl Vinyl ether	10.159	63	426364	281.593 ug/l	100
59) 2-Hexanone	11.194	43	588361	276.767 ug/l	100
60) Dibromochloromethane	11.359	129	126992	54.184 ug/l	100
61) 1,2-Dibromoethane	11.465	107	108817	52.794 ug/l	100
64) Tetrachloroethene	11.100	164	94966	51.486 ug/l	100
65) Chlorobenzene	11.888	112	309849	52.770 ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.959	131	106981	52.897 ug/l	100
67) Ethyl Benzene	11.959	91	561770	54.100 ug/l	100
68) m/p-Xylenes	12.071	106	427131	111.201 ug/l	100
69) o-Xylene	12.394	106	204854	56.370 ug/l	100
70) Styrene	12.412	104	347383	56.434 ug/l	100
71) Bromoform	12.576	173	83487	56.070 ug/l #	100
73) Isopropylbenzene	12.694	105	527625	54.145 ug/l	100
74) N-amyl acetate	12.494	43	237131	53.738 ug/l	100
75) 1,1,2,2-Tetrachloroethane	12.935	83	151079	51.560 ug/l	100
76) 1,2,3-Trichloropropane	12.988	75	143676m	56.449 ug/l	
77) Bromobenzene	12.982	156	120918	51.442 ug/l	100
78) n-propylbenzene	13.035	91	626503	55.490 ug/l	100
79) 2-Chlorotoluene	13.123	91	384795	53.411 ug/l	100
80) 1,3,5-Trimethylbenzene	13.170	105	445807	56.084 ug/l	100
81) trans-1,4-Dichloro-2-b...	12.735	75	57572	52.943 ug/l	100
82) 4-Chlorotoluene	13.217	91	386854	53.341 ug/l	100
83) tert-Butylbenzene	13.435	119	386532	54.711 ug/l	100
84) 1,2,4-Trimethylbenzene	13.482	105	449720	56.161 ug/l	100
85) sec-Butylbenzene	13.617	105	529076	56.119 ug/l	100
86) p-Isopropyltoluene	13.729	119	448148	57.485 ug/l	100
87) 1,3-Dichlorobenzene	13.729	146	228219	51.755 ug/l	100
88) 1,4-Dichlorobenzene	13.812	146	227835	51.163 ug/l	100
89) n-Butylbenzene	14.053	91	394831	55.854 ug/l	100
90) Hexachloroethane	14.329	117	81626	51.582 ug/l	100
91) 1,2-Dichlorobenzene	14.106	146	218378	50.506 ug/l	100
92) 1,2-Dibromo-3-Chloropr...	14.717	75	30379	50.241 ug/l	100
93) 1,2,4-Trichlorobenzene	15.388	180	119164	55.953 ug/l	100
94) Hexachlorobutadiene	15.500	225	50680	47.718 ug/l	100
95) Naphthalene	15.635	128	393177	55.688 ug/l	100
96) 1,2,3-Trichlorobenzene	15.835	180	114483	53.701 ug/l	100

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN093024\
Data File : VN084214.D
Acq On : 30 Sep 2024 12:49
Operator : JC\MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 10/01/2024
Supervised By :Mahesh Dadoda 10/01/2024

Quant Time: Oct 01 06:48:32 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.M
Quant Title : SW846 8260
QLast Update : Tue Oct 01 06:46:32 2024
Response via : Initial Calibration

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

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

ICAL Form

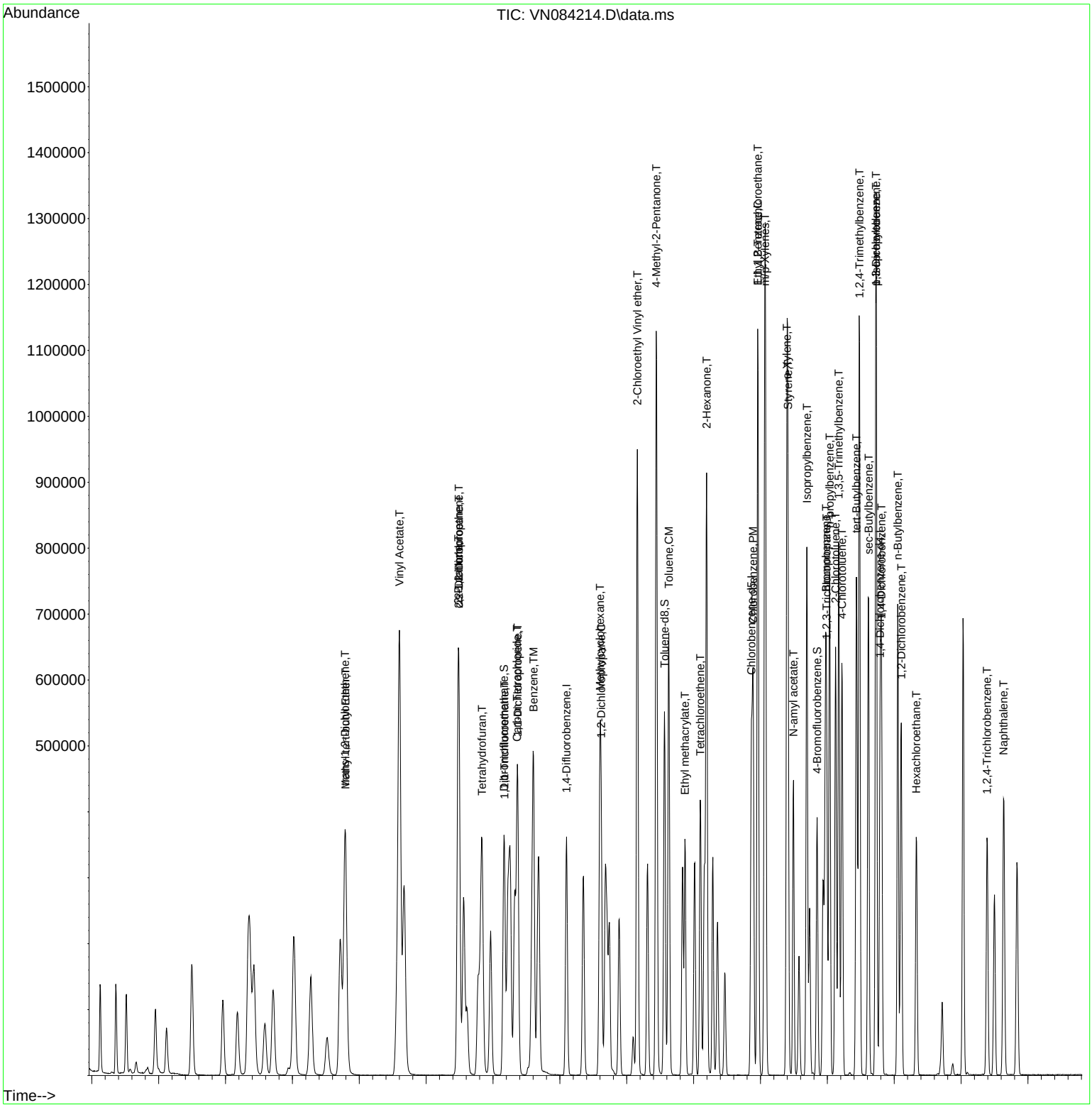
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN093024\
Data File : VN084214.D
Acq On : 30 Sep 2024 12:49
Operator : JC\MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 01 06:48:32 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.M
Quant Title : SW846 8260
QLast Update : Tue Oct 01 06:46:32 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 10/01/2024
Supervised By :Mahesh Dadoda 10/01/2024



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN093024\
Data File : VN084215.D
Acq On : 30 Sep 2024 13:13
Operator : JC\MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

Reviewed By :John Carlone 10/01/2024
Supervised By :Mahesh Dadoda 10/01/2024

Quant Time: Oct 01 06:48:50 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.M
Quant Title : SW846 8260
QLast Update : Tue Oct 01 06:46:32 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.224	168	178087	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	307298	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	270754	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	127763	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	54409	20.606	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	41.220%#		
35) Dibromofluoromethane	8.171	113	41903	20.684	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	41.360%#		
50) Toluene-d8	10.565	98	152668	20.483	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	40.960%#		
62) 4-Bromofluorobenzene	12.847	95	55201	20.329	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	40.660%#		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.124	85	42709	20.275	ug/l	94
3) Chloromethane	2.359	50	48218	20.047	ug/l	99
4) Vinyl Chloride	2.518	62	47375	20.334	ug/l	96
5) Bromomethane	2.942	94	30751	20.010	ug/l	97
6) Chloroethane	3.118	64	30650	18.369	ug/l	96
7) Trichlorofluoromethane	3.495	101	74579	20.557	ug/l	95
8) Diethyl Ether	3.959	74	29090	21.619	ug/l	97
9) 1,1,2-Trichlorotrifluo...	4.377	101	42958	20.665	ug/l	99
10) Methyl Iodide	4.589	142	54769	20.458	ug/l	97
11) Tert butyl alcohol	5.518	59	45501	104.506	ug/l	98
12) 1,1-Dichloroethene	4.336	96	42450	21.171	ug/l	95
13) Acrolein	4.183	56	48261	96.553	ug/l	98
14) Allyl chloride	5.024	41	77338	22.208	ug/l	92
15) Acrylonitrile	5.718	53	115451	105.004	ug/l	99
16) Acetone	4.430	43	119948	105.747	ug/l	98
17) Carbon Disulfide	4.706	76	124366	19.590	ug/l	99
18) Methyl Acetate	5.030	43	49436	19.996	ug/l	99
19) Methyl tert-butyl Ether	5.794	73	144972	21.421	ug/l	100
20) Methylene Chloride	5.271	84	47091	20.423	ug/l	94
21) trans-1,2-Dichloroethene	5.783	96	44064	20.976	ug/l	92
22) Diisopropyl ether	6.671	45	154575	21.460	ug/l	98
23) Vinyl Acetate	6.600	43	589404	109.739	ug/l	99
24) 1,1-Dichloroethane	6.565	63	82821	20.561	ug/l	98
25) 2-Butanone	7.482	43	165762	107.295	ug/l	100
26) 2,2-Dichloropropane	7.494	77	76824	21.152	ug/l	100
27) cis-1,2-Dichloroethene	7.488	96	52758	20.783	ug/l	99
28) Bromochloromethane	7.812	49	34591	19.246	ug/l	99
29) Tetrahydrofuran	7.835	42	100146	105.041	ug/l	99
30) Chloroform	7.965	83	85848	20.517	ug/l	99
31) Cyclohexane	8.253	56	77216	19.743	ug/l	98
32) 1,1,1-Trichloroethane	8.171	97	77552	20.637	ug/l	97
36) 1,1-Dichloropropene	8.371	75	61556	20.918	ug/l	99
37) Ethyl Acetate	7.559	43	61023	20.213	ug/l	99
38) Carbon Tetrachloride	8.359	117	67913	21.039	ug/l	95
39) Methylcyclohexane	9.600	83	70956	21.665	ug/l	99
40) Benzene	8.606	78	191581	20.896	ug/l	97

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN093024\
Data File : VN084215.D
Acq On : 30 Sep 2024 13:13
Operator : JC\MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

Reviewed By :John Carlone 10/01/2024
Supervised By :Mahesh Dadoda 10/01/2024

Quant Time: Oct 01 06:48:50 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.M
Quant Title : SW846 8260
QLast Update : Tue Oct 01 06:46:32 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.782	41	34943	21.320	ug/l		99
42) 1,2-Dichloroethane	8.671	62	64453	20.736	ug/l		99
43) Isopropyl Acetate	8.688	43	114278	19.334	ug/l		99
44) Trichloroethene	9.347	130	44412	20.740	ug/l		98
45) 1,2-Dichloropropane	9.618	63	46651	21.509	ug/l		100
46) Dibromomethane	9.706	93	31672	21.639	ug/l		97
47) Bromodichloromethane	9.888	83	68343	21.017	ug/l		96
48) Methyl methacrylate	9.682	41	50498	21.453	ug/l		98
49) 1,4-Dioxane	9.700	88	18411	424.848	ug/l	#	93
51) 4-Methyl-2-Pentanone	10.441	43	313636	109.132	ug/l		99
52) Toluene	10.629	92	118412	21.179	ug/l		100
53) t-1,3-Dichloropropene	10.835	75	70403	21.240	ug/l		99
54) cis-1,3-Dichloropropene	10.312	75	74778	20.973	ug/l		96
55) 1,1,2-Trichloroethane	11.018	97	42631	21.270	ug/l		98
56) Ethyl methacrylate	10.871	69	72159	21.880	ug/l		99
57) 1,3-Dichloropropane	11.159	76	75915	21.197	ug/l		98
58) 2-Chloroethyl Vinyl ether	10.159	63	142843	93.367	ug/l		99
59) 2-Hexanone	11.194	43	237694	110.658	ug/l		100
60) Dibromochloromethane	11.359	129	50326	21.251	ug/l		97
61) 1,2-Dibromoethane	11.470	107	44554	21.393	ug/l		98
64) Tetrachloroethene	11.100	164	38055	20.179	ug/l		97
65) Chlorobenzene	11.888	112	123787	20.620	ug/l		99
66) 1,1,1,2-Tetrachloroethane	11.959	131	44285	21.417	ug/l		96
67) Ethyl Benzene	11.959	91	219635	20.688	ug/l		98
68) m/p-Xylenes	12.070	106	168826	42.989	ug/l		98
69) o-Xylene	12.394	106	79896	21.503	ug/l		98
70) Styrene	12.412	104	134066	21.302	ug/l		98
71) Bromoform	12.576	173	32824	21.561	ug/l	#	99
73) Isopropylbenzene	12.694	105	207217	21.254	ug/l		99
74) N-amyl acetate	12.494	43	93392	21.154	ug/l		100
75) 1,1,2,2-Tetrachloroethane	12.935	83	60656	20.690	ug/l		98
76) 1,2,3-Trichloropropane	12.994	75	51246m	20.124	ug/l		
77) Bromobenzene	12.976	156	48803	20.752	ug/l		98
78) n-propylbenzene	13.035	91	241164	21.350	ug/l		98
79) 2-Chlorotoluene	13.123	91	147738	20.497	ug/l		99
80) 1,3,5-Trimethylbenzene	13.170	105	171600	21.577	ug/l		100
81) trans-1,4-Dichloro-2-b...	12.735	75	22222	20.426	ug/l		92
82) 4-Chlorotoluene	13.217	91	151387	20.864	ug/l		100
83) tert-Butylbenzene	13.435	119	147727	20.899	ug/l		99
84) 1,2,4-Trimethylbenzene	13.482	105	176283	22.004	ug/l		99
85) sec-Butylbenzene	13.611	105	205477	21.784	ug/l		99
86) p-Isopropyltoluene	13.729	119	171766	22.022	ug/l		99
87) 1,3-Dichlorobenzene	13.729	146	90970	20.620	ug/l		99
88) 1,4-Dichlorobenzene	13.811	146	88628	19.893	ug/l		96
89) n-Butylbenzene	14.053	91	151334	21.398	ug/l		100
90) Hexachloroethane	14.335	117	32554	20.562	ug/l		95
91) 1,2-Dichlorobenzene	14.106	146	88942	20.560	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	14.717	75	12914	21.347	ug/l		96
93) 1,2,4-Trichlorobenzene	15.388	180	47149	22.128	ug/l		99
94) Hexachlorobutadiene	15.500	225	22742	21.402	ug/l		97
95) Naphthalene	15.641	128	149988	21.233	ug/l		99
96) 1,2,3-Trichlorobenzene	15.841	180	46153	21.639	ug/l		95

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN093024\
Data File : VN084215.D
Acq On : 30 Sep 2024 13:13
Operator : JC\MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

Reviewed By :John Carlone 10/01/2024
Supervised By :Mahesh Dadoda 10/01/2024

Quant Time: Oct 01 06:48:50 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.M
Quant Title : SW846 8260
QLast Update : Tue Oct 01 06:46:32 2024
Response via : Initial Calibration

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

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

ICAL Form

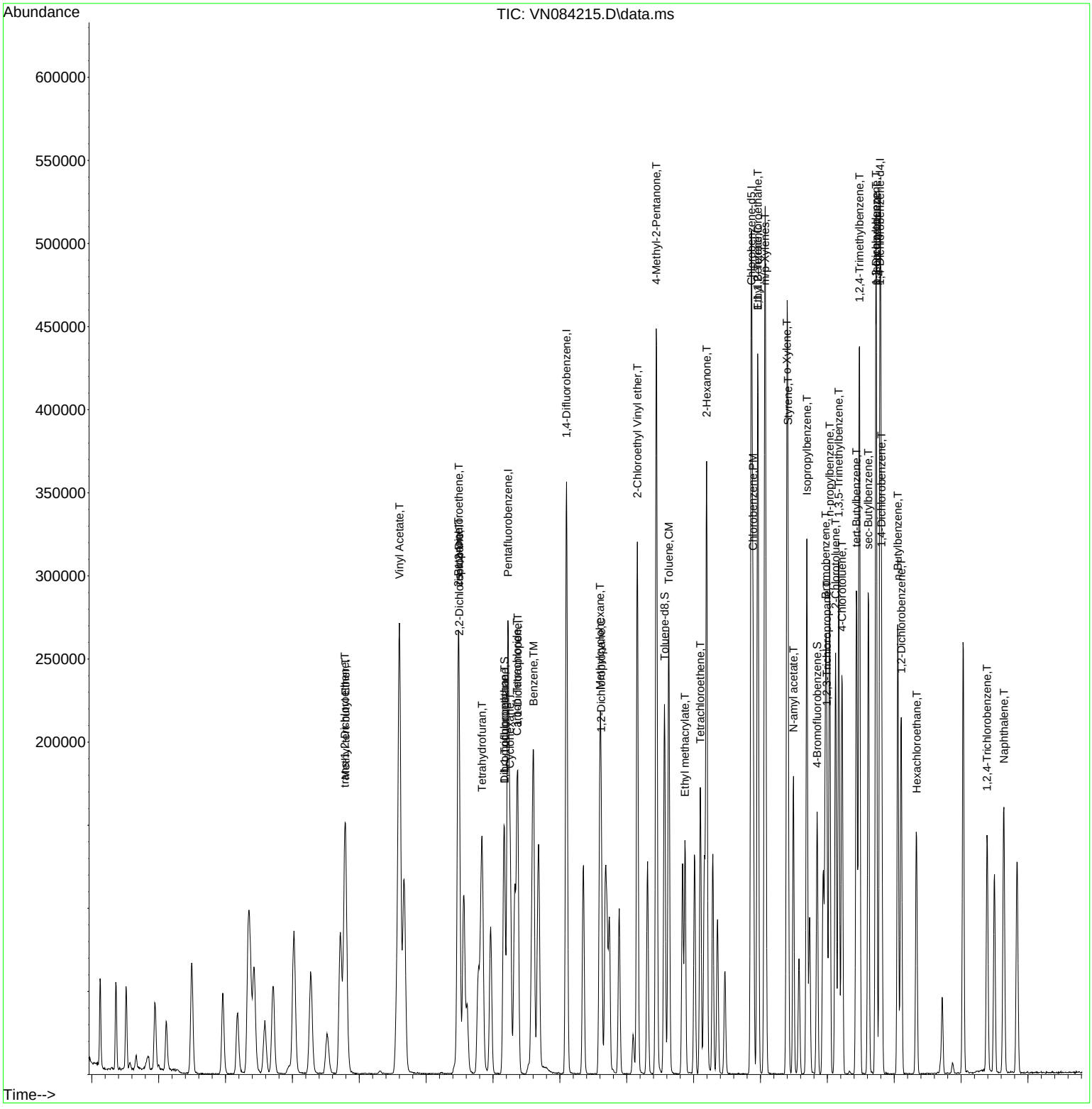
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN093024\
Data File : VN084215.D
Acq On : 30 Sep 2024 13:13
Operator : JC\MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 01 06:48:50 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.M
Quant Title : SW846 8260
QLast Update : Tue Oct 01 06:46:32 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

Reviewed By :John Carlone 10/01/2024
Supervised By :Mahesh Dadoda 10/01/2024



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN093024\
Data File : VN084216.D
Acq On : 30 Sep 2024 13:37
Operator : JC\MD
Sample : VSTDICC010
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

Reviewed By :John Carlone 10/01/2024
Supervised By :Mahesh Dadoda 10/01/2024

Quant Time: Oct 01 06:49:09 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.M
Quant Title : SW846 8260
QLast Update : Tue Oct 01 06:46:32 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	8.224	168	176243	50.000	ug/l		0.00
34) 1,4-Difluorobenzene	9.100	114	304981	50.000	ug/l		0.00
63) Chlorobenzene-d5	11.865	117	262325	50.000	ug/l		0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	119657	50.000	ug/l		0.00
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4	8.582	65	25083	9.599	ug/l		0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	19.200%#			
35) Dibromofluoromethane	8.165	113	19289	9.594	ug/l		0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	19.180%#			
50) Toluene-d8	10.565	98	70000	9.463	ug/l		0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	18.920%#			
62) 4-Bromofluorobenzene	12.847	95	24756	9.186	ug/l		0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	18.380%#			
Target Compounds							Qvalue
2) Dichlorodifluoromethane	2.130	85	19806	9.501	ug/l		96
3) Chloromethane	2.359	50	22840	9.595	ug/l		97
4) Vinyl Chloride	2.518	62	22584	9.795	ug/l		97
5) Bromomethane	2.965	94	14957	9.835	ug/l		96
6) Chloroethane	3.124	64	15254	9.238	ug/l		89
7) Trichlorofluoromethane	3.494	101	33820	9.420	ug/l		99
8) Diethyl Ether	3.965	74	12422	9.328	ug/l		96
9) 1,1,2-Trichlorotrifluo...	4.377	101	18747	9.113	ug/l		98
10) Methyl Iodide	4.594	142	24268	9.160	ug/l		96
11) Tert butyl alcohol	5.512	59	20490	47.553	ug/l	#	86
12) 1,1-Dichloroethene	4.341	96	18798	9.473	ug/l		86
13) Acrolein	4.183	56	22976	46.448	ug/l		98
14) Allyl chloride	5.024	41	31571	9.161	ug/l		98
15) Acrylonitrile	5.718	53	52809	48.533	ug/l		99
16) Acetone	4.424	43	52518	46.785	ug/l		96
17) Carbon Disulfide	4.718	76	58158	9.257	ug/l		99
18) Methyl Acetate	5.024	43	24366	9.959	ug/l		95
19) Methyl tert-butyl Ether	5.794	73	63531	9.486	ug/l		94
20) Methylene Chloride	5.277	84	21801	9.554	ug/l		87
21) trans-1,2-Dichloroethene	5.788	96	20107	9.672	ug/l		85
22) Diisopropyl ether	6.671	45	66959	9.393	ug/l		97
23) Vinyl Acetate	6.606	43	248594	46.769	ug/l		98
24) 1,1-Dichloroethane	6.571	63	38215	9.586	ug/l		99
25) 2-Butanone	7.482	43	73877	48.320	ug/l		99
26) 2,2-Dichloropropane	7.488	77	34655	9.641	ug/l		98
27) cis-1,2-Dichloroethene	7.488	96	23095	9.193	ug/l		98
28) Bromochloromethane	7.812	49	14904	8.379	ug/l		100
29) Tetrahydrofuran	7.835	42	46917	49.725	ug/l		99
30) Chloroform	7.965	83	39355	9.504	ug/l		90
31) Cyclohexane	8.253	56	36916	9.538	ug/l		92
32) 1,1,1-Trichloroethane	8.171	97	35869	9.645	ug/l	#	87
36) 1,1-Dichloropropene	8.377	75	28525	9.767	ug/l		99
37) Ethyl Acetate	7.565	43	29754	9.931	ug/l	#	81
38) Carbon Tetrachloride	8.365	117	30964	9.665	ug/l		92
39) Methylcyclohexane	9.600	83	30932	9.516	ug/l		95
40) Benzene	8.606	78	86029	9.454	ug/l		98

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN093024\
Data File : VN084216.D
Acq On : 30 Sep 2024 13:37
Operator : JC\MD
Sample : VSTDICC010
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 01 06:49:09 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.M
Quant Title : SW846 8260
QLast Update : Tue Oct 01 06:46:32 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

Reviewed By :John Carlone 10/01/2024
Supervised By :Mahesh Dadoda 10/01/2024

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
41) Methacrylonitrile	7.777	41	15332	9.426 ug/l		97
42) 1,2-Dichloroethane	8.671	62	30402	9.855 ug/l		97
43) Isopropyl Acetate	8.688	43	52246	8.906 ug/l		99
44) Trichloroethene	9.347	130	20092	9.454 ug/l		99
45) 1,2-Dichloropropane	9.618	63	20703	9.618 ug/l		96
46) Dibromomethane	9.706	93	13770	9.479 ug/l		95
47) Bromodichloromethane	9.888	83	30289	9.385 ug/l	#	98
48) Methyl methacrylate	9.682	41	22612	9.679 ug/l		98
49) 1,4-Dioxane	9.694	88	8627	200.587 ug/l	#	78
51) 4-Methyl-2-Pentanone	10.441	43	142632	50.007 ug/l		99
52) Toluene	10.629	92	52537	9.468 ug/l		99
53) t-1,3-Dichloropropene	10.835	75	31555	9.592 ug/l		93
54) cis-1,3-Dichloropropene	10.312	75	34684	9.802 ug/l		96
55) 1,1,2-Trichloroethane	11.018	97	19245	9.675 ug/l		97
56) Ethyl methacrylate	10.870	69	31262	9.551 ug/l		97
57) 1,3-Dichloropropane	11.165	76	33613	9.457 ug/l		97
58) 2-Chloroethyl Vinyl ether	10.159	63	71035	46.784 ug/l		99
59) 2-Hexanone	11.194	43	103615	48.604 ug/l		100
60) Dibromochloromethane	11.359	129	22833	9.715 ug/l		99
61) 1,2-Dibromoethane	11.470	107	19220	9.299 ug/l		95
64) Tetrachloroethene	11.100	164	17743	9.711 ug/l		97
65) Chlorobenzene	11.894	112	56099	9.645 ug/l		98
66) 1,1,1,2-Tetrachloroethane	11.959	131	19227	9.597 ug/l		97
67) Ethyl Benzene	11.964	91	96533	9.385 ug/l		97
68) m/p-Xylenes	12.070	106	72910	19.162 ug/l		100
69) o-Xylene	12.394	106	34965	9.713 ug/l		100
70) Styrene	12.412	104	58367	9.572 ug/l		99
71) Bromoform	12.576	173	13618	9.233 ug/l	#	96
73) Isopropylbenzene	12.694	105	88000	9.638 ug/l		99
74) N-amyl acetate	12.494	43	40801	9.868 ug/l		99
75) 1,1,2,2-Tetrachloroethane	12.935	83	26966	9.822 ug/l		99
76) 1,2,3-Trichloropropane	12.994	75	23907m	10.024 ug/l		
77) Bromobenzene	12.982	156	21439	9.734 ug/l		99
78) n-propylbenzene	13.035	91	105334	9.957 ug/l		99
79) 2-Chlorotoluene	13.123	91	65511	9.704 ug/l		99
80) 1,3,5-Trimethylbenzene	13.170	105	73637	9.887 ug/l		100
81) trans-1,4-Dichloro-2-b...	12.729	75	10237	10.047 ug/l		94
82) 4-Chlorotoluene	13.223	91	66449	9.778 ug/l		99
83) tert-Butylbenzene	13.435	119	64152	9.691 ug/l		99
84) 1,2,4-Trimethylbenzene	13.482	105	74245	9.895 ug/l		99
85) sec-Butylbenzene	13.611	105	88913	10.065 ug/l		100
86) p-Isopropyltoluene	13.729	119	71675	9.812 ug/l		99
87) 1,3-Dichlorobenzene	13.729	146	39402	9.536 ug/l		98
88) 1,4-Dichlorobenzene	13.811	146	39191	9.392 ug/l		97
89) n-Butylbenzene	14.053	91	61422	9.273 ug/l		99
90) Hexachloroethane	14.335	117	14560	9.820 ug/l		99
91) 1,2-Dichlorobenzene	14.106	146	38594	9.526 ug/l		99
92) 1,2-Dibromo-3-Chloropr...	14.717	75	5799	10.235 ug/l		97
93) 1,2,4-Trichlorobenzene	15.388	180	18960	9.501 ug/l		99
94) Hexachlorobutadiene	15.500	225	9592	9.638 ug/l		95
95) Naphthalene	15.635	128	63596	9.613 ug/l		100
96) 1,2,3-Trichlorobenzene	15.841	180	19629	9.826 ug/l		97

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN093024\
Data File : VN084216.D
Acq On : 30 Sep 2024 13:37
Operator : JC\MD
Sample : VSTDICC010
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

Reviewed By :John Carlone 10/01/2024
Supervised By :Mahesh Dadoda 10/01/2024

Quant Time: Oct 01 06:49:09 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.M
Quant Title : SW846 8260
QLast Update : Tue Oct 01 06:46:32 2024
Response via : Initial Calibration

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

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

ICAL Form

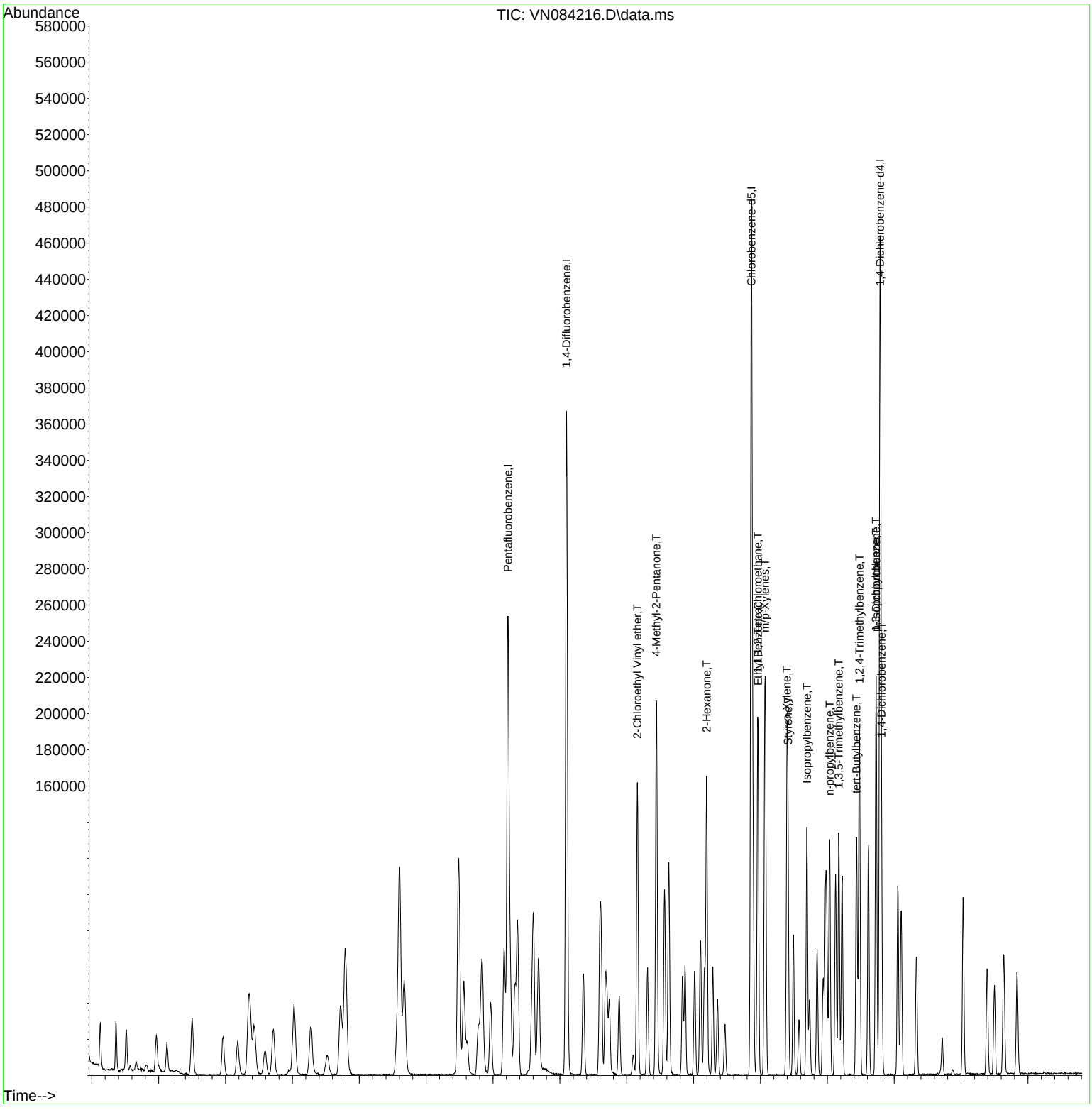
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN093024\
Data File : VN084216.D
Acq On : 30 Sep 2024 13:37
Operator : JC\MD
Sample : VSTDICC010
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 01 06:49:09 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.M
Quant Title : SW846 8260
QLast Update : Tue Oct 01 06:46:32 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

Reviewed By :John Carlone 10/01/2024
Supervised By :Mahesh Dadoda 10/01/2024



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN093024\
Data File : VN084217.D
Acq On : 30 Sep 2024 14:00
Operator : JC\MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

Reviewed By :John Carlone 10/01/2024
Supervised By :Mahesh Dadoda 10/01/2024

Quant Time: Oct 01 06:49:24 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.M
Quant Title : SW846 8260
QLast Update : Tue Oct 01 06:46:32 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	8.224	168	161547	50.000	ug/l		0.00
34) 1,4-Difluorobenzene	9.100	114	288067	50.000	ug/l		0.00
63) Chlorobenzene-d5	11.865	117	245710	50.000	ug/l		0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	112491	50.000	ug/l		0.00
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4	8.571	65	13262	5.537	ug/l		0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	11.080%#			
35) Dibromofluoromethane	8.171	113	10333	5.441	ug/l		0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	10.880%#			
50) Toluene-d8	10.565	98	35782	5.121	ug/l		0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	10.240%#			
62) 4-Bromofluorobenzene	12.847	95	13132	5.159	ug/l		0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	10.320%#			
Target Compounds							Qvalue
2) Dichlorodifluoromethane	2.130	85	9807	5.132	ug/l		94
3) Chloromethane	2.359	50	12064	5.529	ug/l		92
4) Vinyl Chloride	2.512	62	11701	5.536	ug/l		96
5) Bromomethane	2.947	94	8091	5.804	ug/l		97
6) Chloroethane	3.118	64	8433	5.571	ug/l		94
7) Trichlorofluoromethane	3.495	101	17988	5.466	ug/l		90
8) Diethyl Ether	3.953	74	6430	5.268	ug/l		98
9) 1,1,2-Trichlorotrifluo...	4.365	101	10220m	5.420	ug/l		
10) Methyl Iodide	4.589	142	12344	5.083	ug/l	#	97
11) Tert butyl alcohol	5.512	59	11537	29.211	ug/l	#	91
12) 1,1-Dichloroethene	4.342	96	10191	5.603	ug/l		95
13) Acrolein	4.177	56	13122	28.940	ug/l		99
14) Allyl chloride	5.030	41	17724	5.611	ug/l		90
15) Acrylonitrile	5.718	53	26537	26.607	ug/l		99
16) Acetone	4.430	43	27153	26.389	ug/l		95
17) Carbon Disulfide	4.712	76	30816	5.351	ug/l		97
18) Methyl Acetate	5.024	43	12354	5.509	ug/l	#	72
19) Methyl tert-butyl Ether	5.800	73	33101	5.392	ug/l		97
20) Methylene Chloride	5.265	84	10809	5.168	ug/l		96
21) trans-1,2-Dichloroethene	5.789	96	10126m	5.314	ug/l		
22) Diisopropyl ether	6.671	45	35654	5.457	ug/l		99
23) Vinyl Acetate	6.606	43	128057m	26.284	ug/l		
24) 1,1-Dichloroethane	6.565	63	19800	5.419	ug/l		95
25) 2-Butanone	7.482	43	37739	26.929	ug/l		99
26) 2,2-Dichloropropane	7.488	77	17552	5.327	ug/l		98
27) cis-1,2-Dichloroethene	7.488	96	12388	5.380	ug/l		99
28) Bromochloromethane	7.812	49	9996	6.131	ug/l	#	95
29) Tetrahydrofuran	7.841	42	23456	27.121	ug/l		97
30) Chloroform	7.965	83	20341	5.359	ug/l		92
31) Cyclohexane	8.259	56	21337	6.014	ug/l		99
32) 1,1,1-Trichloroethane	8.171	97	18635	5.467	ug/l	#	53
36) 1,1-Dichloropropene	8.371	75	14527	5.266	ug/l		99
37) Ethyl Acetate	7.565	43	16138	5.702	ug/l		97
38) Carbon Tetrachloride	8.359	117	15700	5.188	ug/l		95
39) Methylcyclohexane	9.594	83	15377	5.009	ug/l		94
40) Benzene	8.606	78	45343	5.276	ug/l		99

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN093024\
Data File : VN084217.D
Acq On : 30 Sep 2024 14:00
Operator : JC\MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

Reviewed By :John Carlone 10/01/2024
Supervised By :Mahesh Dadoda 10/01/2024

Quant Time: Oct 01 06:49:24 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.M
Quant Title : SW846 8260
QLast Update : Tue Oct 01 06:46:32 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
41) Methacrylonitrile	7.782	41	7878	5.128 ug/l	93
42) 1,2-Dichloroethane	8.677	62	15661	5.375 ug/l	99
43) Isopropyl Acetate	8.682	43	28029m	5.059 ug/l	
44) Trichloroethene	9.347	130	10921	5.440 ug/l	87
45) 1,2-Dichloropropane	9.618	63	11181	5.499 ug/l	95
46) Dibromomethane	9.706	93	7207	5.253 ug/l	93
47) Bromodichloromethane	9.888	83	16407	5.382 ug/l #	97
48) Methyl methacrylate	9.676	41	11766	5.332 ug/l	97
49) 1,4-Dioxane	9.688	88	4121	101.444 ug/l #	79
51) 4-Methyl-2-Pentanone	10.441	43	69730	25.883 ug/l	99
52) Toluene	10.629	92	26489	5.054 ug/l	96
53) t-1,3-Dichloropropene	10.835	75	16242	5.227 ug/l	94
54) cis-1,3-Dichloropropene	10.312	75	17448	5.220 ug/l	98
55) 1,1,2-Trichloroethane	11.018	97	9805	5.219 ug/l	89
56) Ethyl methacrylate	10.876	69	15794	5.109 ug/l	96
57) 1,3-Dichloropropane	11.159	76	17954	5.348 ug/l	96
58) 2-Chloroethyl Vinyl ether	10.159	63	38417	26.787 ug/l	99
59) 2-Hexanone	11.194	43	51488	25.570 ug/l	98
60) Dibromochloromethane	11.359	129	11412	5.141 ug/l	96
61) 1,2-Dibromoethane	11.470	107	10394	5.324 ug/l	98
64) Tetrachloroethene	11.106	164	9167	5.356 ug/l	90
65) Chlorobenzene	11.888	112	28818	5.290 ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.959	131	10054	5.358 ug/l	97
67) Ethyl Benzene	11.965	91	49891	5.178 ug/l	97
68) m/p-Xylenes	12.065	106	35820	10.051 ug/l	98
69) o-Xylene	12.400	106	18041	5.350 ug/l	96
70) Styrene	12.412	104	28472	4.985 ug/l	99
71) Bromoform	12.582	173	7067	5.115 ug/l #	95
73) Isopropylbenzene	12.694	105	43468	5.064 ug/l	98
74) N-amyl acetate	12.494	43	19775	5.087 ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.941	83	14517	5.624 ug/l	94
76) 1,2,3-Trichloropropane	12.994	75	14072m	6.276 ug/l	
77) Bromobenzene	12.976	156	11049	5.336 ug/l	99
78) n-propylbenzene	13.035	91	51120	5.140 ug/l	99
79) 2-Chlorotoluene	13.123	91	33161	5.225 ug/l	99
80) 1,3,5-Trimethylbenzene	13.170	105	36100	5.156 ug/l	97
81) trans-1,4-Dichloro-2-b...	12.735	75	4595	4.797 ug/l #	79
82) 4-Chlorotoluene	13.223	91	33382	5.225 ug/l	99
83) tert-Butylbenzene	13.435	119	31990	5.140 ug/l	99
84) 1,2,4-Trimethylbenzene	13.482	105	36099	5.118 ug/l	100
85) sec-Butylbenzene	13.612	105	40954	4.931 ug/l	98
86) p-Isopropyltoluene	13.729	119	34083	4.963 ug/l	99
87) 1,3-Dichlorobenzene	13.729	146	20730	5.337 ug/l	98
88) 1,4-Dichlorobenzene	13.812	146	21249	5.417 ug/l	96
89) n-Butylbenzene	14.059	91	30253	4.858 ug/l	99
90) Hexachloroethane	14.329	117	7628	5.472 ug/l	98
91) 1,2-Dichlorobenzene	14.106	146	19905	5.226 ug/l	98
92) 1,2-Dibromo-3-Chloropr...	14.723	75	3046	5.719 ug/l	92
93) 1,2,4-Trichlorobenzene	15.394	180	9439	5.031 ug/l	95
94) Hexachlorobutadiene	15.500	225	5174	5.530 ug/l	89
95) Naphthalene	15.641	128	30391	4.886 ug/l	99
96) 1,2,3-Trichlorobenzene	15.841	180	9245	4.923 ug/l	98

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN093024\
Data File : VN084217.D
Acq On : 30 Sep 2024 14:00
Operator : JC\MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 01 06:49:24 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.M
Quant Title : SW846 8260
QLast Update : Tue Oct 01 06:46:32 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

Reviewed By :John Carlone 10/01/2024
Supervised By :Mahesh Dadoda 10/01/2024

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

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

ICAL Form

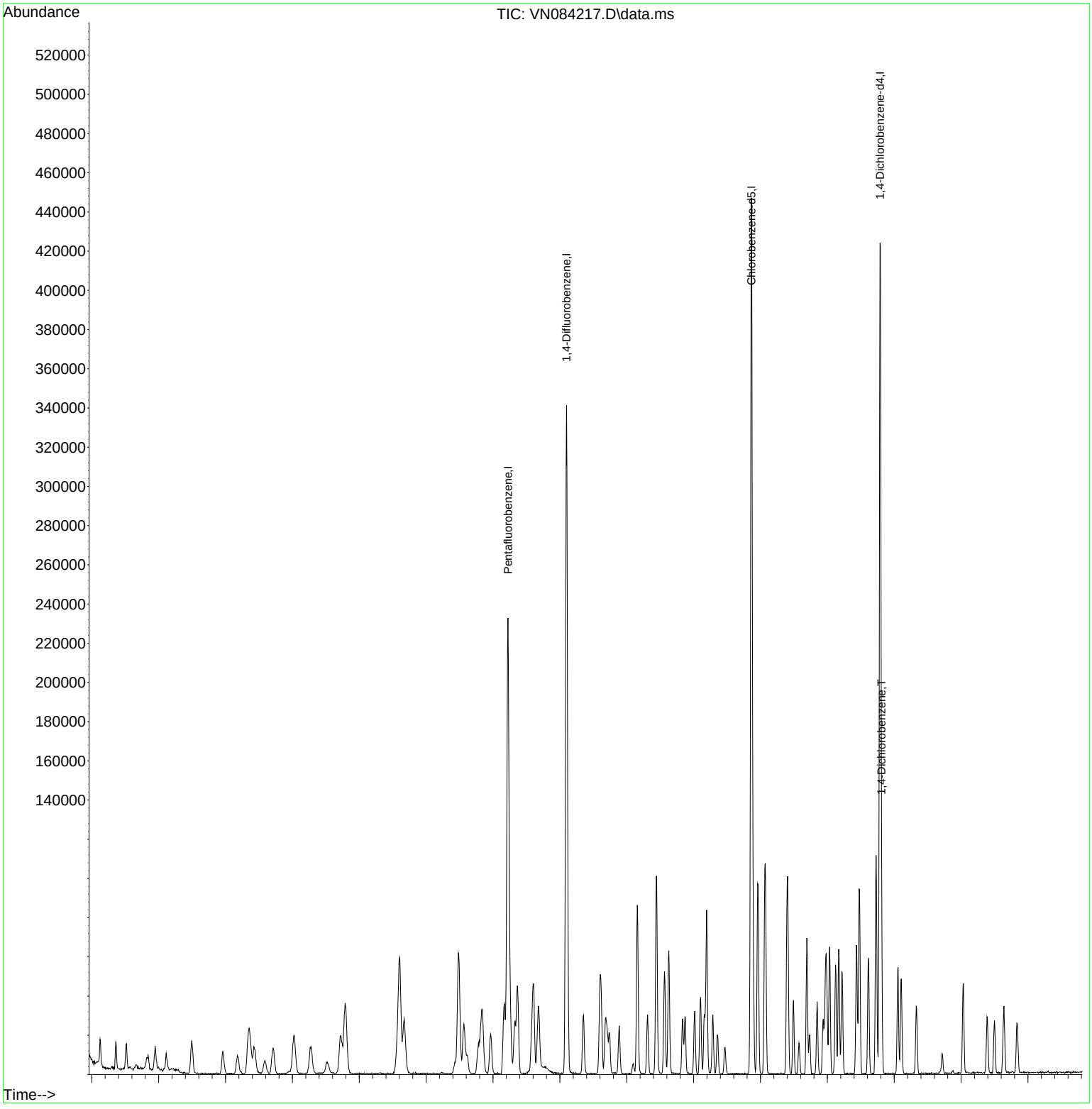
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN093024\
Data File : VN084217.D
Acq On : 30 Sep 2024 14:00
Operator : JC\MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 01 06:49:24 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.M
Quant Title : SW846 8260
QLast Update : Tue Oct 01 06:46:32 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

Reviewed By :John Carlone 10/01/2024
Supervised By :Mahesh Dadoda 10/01/2024



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN093024\
Data File : VN084218.D
Acq On : 30 Sep 2024 14:48
Operator : JC\MD
Sample : VSTDICC001
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

Reviewed By :John Carlone 10/01/2024
Supervised By :Mahesh Dadoda 10/01/2024

Quant Time: Oct 01 06:49:39 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.M
Quant Title : SW846 8260
QLast Update : Tue Oct 01 06:46:32 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	8.224	168	160573	50.000	ug/l		0.00
34) 1,4-Difluorobenzene	9.100	114	290146	50.000	ug/l		0.00
63) Chlorobenzene-d5	11.865	117	244376	50.000	ug/l		0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	101963	50.000	ug/l		0.00
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4	0.000	65	0d	0.000	ug/l		
Spiked Amount 50.000	Range 74 - 125		Recovery =	0.000%#			
35) Dibromofluoromethane	0.000	113	0d	0.000	ug/l		
Spiked Amount 50.000	Range 75 - 124		Recovery =	0.000%#			
50) Toluene-d8	0.000	98	0d	0.000	ug/l		
Spiked Amount 50.000	Range 86 - 113		Recovery =	0.000%#			
62) 4-Bromofluorobenzene	0.000	95	0d	0.000	ug/l		
Spiked Amount 50.000	Range 77 - 121		Recovery =	0.000%#			
Target Compounds							Qvalue
2) Dichlorodifluoromethane	2.124	85	1928	1.015	ug/l		83
3) Chloromethane	2.365	50	2217	1.022	ug/l		99
4) Vinyl Chloride	2.512	62	1981	0.943	ug/l		89
6) Chloroethane	3.124	64	2029	1.349	ug/l		97
7) Trichlorofluoromethane	3.500	101	3140	0.960	ug/l		94
8) Diethyl Ether	3.965	74	1167	0.962	ug/l		88
9) 1,1,2-Trichlorotrifluo...	4.371	101	1934	1.032	ug/l	#	63
12) 1,1-Dichloroethene	4.353	96	1584	0.876	ug/l	#	50
14) Allyl chloride	5.018	41	2852m	0.908	ug/l		
15) Acrylonitrile	5.736	53	4920	4.963	ug/l	#	81
16) Acetone	4.436	43	4799	4.692	ug/l		90
17) Carbon Disulfide	4.718	76	6680	1.167	ug/l		100
18) Methyl Acetate	5.030	43	2249	1.009	ug/l	#	64
19) Methyl tert-butyl Ether	5.806	73	5319	0.872	ug/l	#	83
20) Methylene Chloride	5.277	84	2203	1.060	ug/l	#	83
21) trans-1,2-Dichloroethene	5.783	96	1753	0.925	ug/l		86
22) Diisopropyl ether	6.671	45	5639	0.868	ug/l	#	96
23) Vinyl Acetate	6.606	43	19212m	3.967	ug/l		
24) 1,1-Dichloroethane	6.571	63	3358	0.925	ug/l	#	83
25) 2-Butanone	7.488	43	6488	4.658	ug/l		91
26) 2,2-Dichloropropane	7.494	77	2902	0.886	ug/l		96
27) cis-1,2-Dichloroethene	7.483	96	2259	0.987	ug/l		92
28) Bromochloromethane	7.824	49	1718	1.060	ug/l	#	87
29) Tetrahydrofuran	7.841	42	4006	4.660	ug/l		92
30) Chloroform	7.971	83	3793	1.005	ug/l		99
32) 1,1,1-Trichloroethane	8.171	97	3120	0.921	ug/l	#	53
36) 1,1-Dichloropropene	8.365	75	2420	0.871	ug/l		98
37) Ethyl Acetate	7.559	43	2596	0.911	ug/l	#	78
38) Carbon Tetrachloride	8.359	117	2795	0.917	ug/l		90
39) Methylcyclohexane	9.600	83	2486	0.804	ug/l	#	88
40) Benzene	8.606	78	8245	0.952	ug/l		94
41) Methacrylonitrile	7.782	41	1490	0.963	ug/l	#	66
42) 1,2-Dichloroethane	8.671	62	2669	0.909	ug/l		88
43) Isopropyl Acetate	8.688	43	7614m	1.364	ug/l		
44) Trichloroethene	9.347	130	1885	0.932	ug/l		87
45) 1,2-Dichloropropane	9.624	63	1676	0.818	ug/l	#	44

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN093024\
Data File : VN084218.D
Acq On : 30 Sep 2024 14:48
Operator : JC\MD
Sample : VSTDICC001
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 01 06:49:39 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.M
Quant Title : SW846 8260
QLast Update : Tue Oct 01 06:46:32 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

Reviewed By :John Carlone 10/01/2024
Supervised By :Mahesh Dadoda 10/01/2024

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
46) Dibromomethane	9.706	93	1144	0.828 ug/l	87
47) Bromodichloromethane	9.894	83	2754	0.897 ug/l #	93
48) Methyl methacrylate	9.676	41	1824	0.821 ug/l	93
49) 1,4-Dioxane	9.694	88	800	19.552 ug/l #	78
51) 4-Methyl-2-Pentanone	10.447	43	11218	4.134 ug/l	97
52) Toluene	10.629	92	4875	0.923 ug/l	91
53) t-1,3-Dichloropropene	10.829	75	2493	0.797 ug/l	98
54) cis-1,3-Dichloropropene	10.306	75	2720	0.808 ug/l	95
55) 1,1,2-Trichloroethane	11.018	97	1669	0.882 ug/l	90
56) Ethyl methacrylate	10.876	69	2402	0.771 ug/l #	77
57) 1,3-Dichloropropane	11.159	76	3092	0.914 ug/l	100
58) 2-Chloroethyl Vinyl ether	10.159	63	6179	4.278 ug/l	98
59) 2-Hexanone	11.194	43	8282	4.084 ug/l	96
60) Dibromochloromethane	11.353	129	1916	0.857 ug/l	91
61) 1,2-Dibromoethane	11.465	107	1795	0.913 ug/l	99
64) Tetrachloroethene	11.106	164	1690	0.993 ug/l #	87
65) Chlorobenzene	11.888	112	5025	0.927 ug/l #	86
66) 1,1,1,2-Tetrachloroethane	11.959	131	1632	0.874 ug/l #	66
67) Ethyl Benzene	11.965	91	8582	0.896 ug/l #	88
68) m/p-Xylenes	12.070	106	5869	1.656 ug/l	95
69) o-Xylene	12.400	106	2398	0.715 ug/l	83
70) Styrene	12.412	104	4489	0.790 ug/l	94
71) Bromoform	12.576	173	1168	0.850 ug/l #	94
73) Isopropylbenzene	12.688	105	6991	0.899 ug/l	97
74) N-amyl acetate	12.494	43	3228	0.916 ug/l #	88
75) 1,1,2,2-Tetrachloroethane	12.941	83	2233	0.954 ug/l #	95
76) 1,2,3-Trichloropropane	12.994	75	1826m	0.899 ug/l	
77) Bromobenzene	12.976	156	1818	0.969 ug/l	98
78) n-propylbenzene	13.035	91	7045	0.781 ug/l	95
79) 2-Chlorotoluene	13.129	91	5383	0.936 ug/l	92
80) 1,3,5-Trimethylbenzene	13.170	105	4830	0.761 ug/l	95
82) 4-Chlorotoluene	13.223	91	5174	0.893 ug/l	100
83) tert-Butylbenzene	13.435	119	4909	0.870 ug/l	88
84) 1,2,4-Trimethylbenzene	13.482	105	4760	0.744 ug/l	100
85) sec-Butylbenzene	13.612	105	5795	0.770 ug/l	99
86) p-Isopropyltoluene	13.723	119	4495	0.722 ug/l	98
87) 1,3-Dichlorobenzene	13.729	146	3424	0.972 ug/l	96
88) 1,4-Dichlorobenzene	13.812	146	3648m	1.026 ug/l	
89) n-Butylbenzene	14.053	91	4866	0.862 ug/l	97
90) Hexachloroethane	14.335	117	1151	0.911 ug/l	82
91) 1,2-Dichlorobenzene	14.100	146	3610	1.046 ug/l	92
92) 1,2-Dibromo-3-Chloropr...	14.711	75	423	0.876 ug/l	65
93) 1,2,4-Trichlorobenzene	15.400	180	1340	0.788 ug/l	89
94) Hexachlorobutadiene	15.494	225	861	1.015 ug/l	90
95) Naphthalene	15.641	128	5031	0.892 ug/l	97
96) 1,2,3-Trichlorobenzene	15.847	180	1531	0.899 ug/l	95

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

ICAL Form

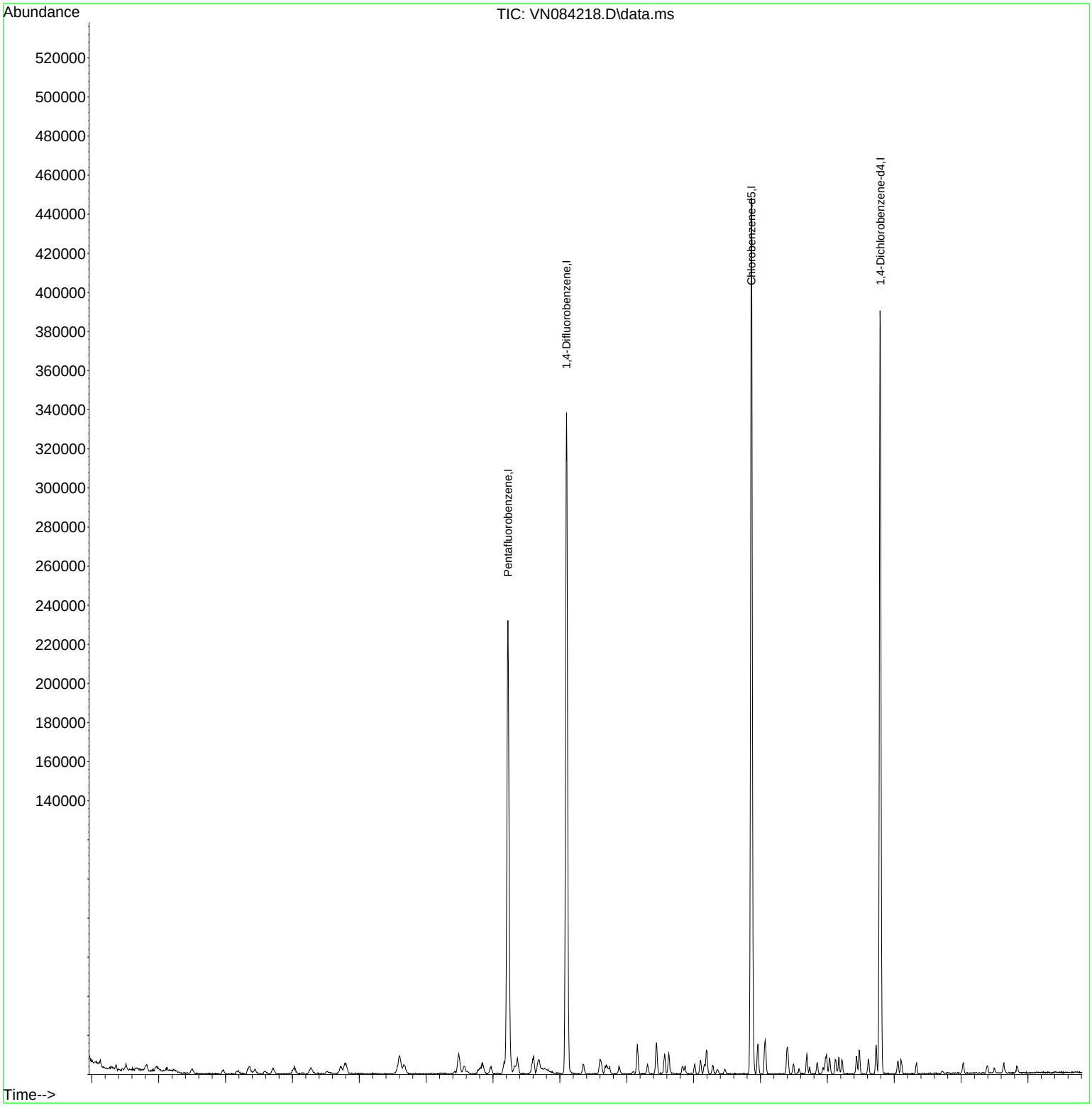
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN093024\
Data File : VN084218.D
Acq On : 30 Sep 2024 14:48
Operator : JC\MD
Sample : VSTDICC001
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 01 06:49:39 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.M
Quant Title : SW846 8260
QLast Update : Tue Oct 01 06:46:32 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

Reviewed By :John Carlone 10/01/2024
Supervised By :Mahesh Dadoda 10/01/2024



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN093024\
Data File : VN084220.D
Acq On : 30 Sep 2024 15:36
Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Oct 01 07:14:39 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.M
Quant Title : SW846 8260
QLast Update : Tue Oct 01 07:11:01 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
ICVVN093024

Manual Integrations APPROVED

Reviewed By :John Carlone 10/01/2024
Supervised By :Mahesh Dadoda 10/01/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.224	168	174241	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	300916	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	263364	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	130851	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	130630	50.564	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 101.120%			
35) Dibromofluoromethane	8.165	113	100200	50.508	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 101.020%			
50) Toluene-d8	10.565	98	387775	53.129	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 106.260%			
62) 4-Bromofluorobenzene	12.847	95	140850	52.971	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 105.940%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.124	85	108641	52.712	ug/l	95
3) Chloromethane	2.359	50	121140	51.477	ug/l	97
4) Vinyl Chloride	2.512	62	116792	51.235	ug/l	99
5) Bromomethane	2.947	94	71654	47.656	ug/l	99
6) Chloroethane	3.118	64	73658	45.119	ug/l	94
7) Trichlorofluoromethane	3.495	101	188482	53.099	ug/l	98
8) Diethyl Ether	3.959	74	70360	53.445	ug/l	98
9) 1,1,2-Trichlorotrifluo...	4.371	101	104895	51.573	ug/l	99
10) Methyl Iodide	4.589	142	141430	53.996	ug/l	92
11) Tert butyl alcohol	5.524	59	109545	257.154	ug/l	99
12) 1,1-Dichloroethene	4.342	96	104103	53.064	ug/l	95
13) Acrolein	4.177	56	125971	257.587	ug/l	97
14) Allyl chloride	5.024	41	174077	51.092	ug/l	100
15) Acrylonitrile	5.718	53	293962	273.264	ug/l	99
16) Acetone	4.430	43	308020	277.547	ug/l	97
17) Carbon Disulfide	4.712	76	302450	48.693	ug/l	100
18) Methyl Acetate	5.024	43	130494	53.948	ug/l	98
19) Methyl tert-butyl Ether	5.800	73	360019	54.371	ug/l	96
20) Methylene Chloride	5.277	84	117572	52.116	ug/l	89
21) trans-1,2-Dichloroethene	5.783	96	108894	52.980	ug/l	97
22) Diisopropyl ether	6.671	45	384647	54.579	ug/l	99
23) Vinyl Acetate	6.600	43	1492704	285.569	ug/l	99
24) 1,1-Dichloroethane	6.565	63	211544	53.676	ug/l	98
25) 2-Butanone	7.482	43	426860	282.397	ug/l	98
26) 2,2-Dichloropropane	7.488	77	189858	53.428	ug/l	99
27) cis-1,2-Dichloroethene	7.488	96	128843	51.876	ug/l	98
28) Bromochloromethane	7.818	49	84632	48.129	ug/l	97
29) Tetrahydrofuran	7.835	42	262996	281.940	ug/l	99
30) Chloroform	7.965	83	213634	52.184	ug/l	95
31) Cyclohexane	8.259	56	190602	49.809	ug/l	100
32) 1,1,1-Trichloroethane	8.171	97	196319	53.395	ug/l	99
36) 1,1-Dichloropropene	8.371	75	155365	53.917	ug/l	99
37) Ethyl Acetate	7.559	43	159764	54.043	ug/l	99
38) Carbon Tetrachloride	8.359	117	169403	53.593	ug/l	94
39) Methylcyclohexane	9.600	83	181676	56.648	ug/l	98
40) Benzene	8.606	78	478538	53.301	ug/l	99

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN093024\
Data File : VN084220.D
Acq On : 30 Sep 2024 15:36
Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Oct 01 07:14:39 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.M
Quant Title : SW846 8260
QLast Update : Tue Oct 01 07:11:01 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
ICVVN093024

Manual Integrations APPROVED

Reviewed By :John Carlone 10/01/2024
Supervised By :Mahesh Dadoda 10/01/2024

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.777	41	89407	55.708	ug/l		98
42) 1,2-Dichloroethane	8.671	62	164758	54.131	ug/l		99
43) Isopropyl Acetate	8.688	43	278668	48.126	ug/l		100
44) Trichloroethene	9.353	130	109810	52.368	ug/l		100
45) 1,2-Dichloropropane	9.618	63	116161	54.694	ug/l		99
46) Dibromomethane	9.706	93	80284	56.015	ug/l		100
47) Bromodichloromethane	9.888	83	173015	54.335	ug/l		98
48) Methyl methacrylate	9.682	41	132287	57.391	ug/l		98
49) 1,4-Dioxane	9.694	88	47169	1111.545	ug/l		99
51) 4-Methyl-2-Pentanone	10.441	43	808630	287.336	ug/l		100
52) Toluene	10.629	92	296651	54.185	ug/l		99
53) t-1,3-Dichloropropene	10.835	75	183153	56.426	ug/l		99
54) cis-1,3-Dichloropropene	10.312	75	193475	55.416	ug/l		98
55) 1,1,2-Trichloroethane	11.018	97	108550	55.307	ug/l		98
56) Ethyl methacrylate	10.876	69	189121	58.561	ug/l		100
57) 1,3-Dichloropropane	11.165	76	191966	54.738	ug/l		100
58) 2-Chloroethyl Vinyl ether	10.159	63	415454	277.315	ug/l		98
59) 2-Hexanone	11.194	43	621000	295.238	ug/l		100
60) Dibromochloromethane	11.359	129	127786	55.105	ug/l		99
61) 1,2-Dibromoethane	11.470	107	111244	54.548	ug/l		98
64) Tetrachloroethene	11.100	164	96460	52.585	ug/l		99
65) Chlorobenzene	11.888	112	312728	53.555	ug/l		97
66) 1,1,1,2-Tetrachloroethane	11.959	131	111388	55.381	ug/l		97
67) Ethyl Benzene	11.965	91	573790	55.563	ug/l		99
68) m/p-Xylenes	12.070	106	434515	113.748	ug/l		99
69) o-Xylene	12.400	106	209737	58.032	ug/l		99
70) Styrene	12.412	104	355892	58.136	ug/l		99
71) Bromoform	12.576	173	84787	57.258	ug/l	#	99
73) Isopropylbenzene	12.694	105	535240	53.604	ug/l		100
74) N-amyl acetate	12.494	43	249223	55.118	ug/l		99
75) 1,1,2,2-Tetrachloroethane	12.935	83	157322	52.398	ug/l		100
76) 1,2,3-Trichloropropane	12.994	75	134836m	50.475	ug/l		
77) Bromobenzene	12.976	156	124463	51.676	ug/l		98
78) n-propylbenzene	13.035	91	638464	55.188	ug/l		99
79) 2-Chlorotoluene	13.123	91	390502	52.898	ug/l		100
80) 1,3,5-Trimethylbenzene	13.170	105	456943	56.101	ug/l		99
81) trans-1,4-Dichloro-2-b...	12.735	75	58987	52.939	ug/l		99
82) 4-Chlorotoluene	13.217	91	397246	53.455	ug/l		100
83) tert-Butylbenzene	13.435	119	390221	53.903	ug/l		99
84) 1,2,4-Trimethylbenzene	13.482	105	461123	56.199	ug/l		98
85) sec-Butylbenzene	13.617	105	536685	55.556	ug/l		99
86) p-Isopropyltoluene	13.729	119	452245	56.614	ug/l		100
87) 1,3-Dichlorobenzene	13.729	146	234190	51.830	ug/l		99
88) 1,4-Dichlorobenzene	13.811	146	234070	51.298	ug/l		99
89) n-Butylbenzene	14.053	91	396001	54.671	ug/l		100
90) Hexachloroethane	14.329	117	82363	50.795	ug/l		100
91) 1,2-Dichlorobenzene	14.106	146	226320	51.082	ug/l		100
92) 1,2-Dibromo-3-Chloropr...	14.717	75	32296	52.125	ug/l		96
93) 1,2,4-Trichlorobenzene	15.394	180	114157	52.311	ug/l		99
94) Hexachlorobutadiene	15.500	225	50461	46.368	ug/l		97
95) Naphthalene	15.641	128	380549	52.602	ug/l		99
96) 1,2,3-Trichlorobenzene	15.835	180	111086	50.853	ug/l		99

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN093024\
Data File : VN084220.D
Acq On : 30 Sep 2024 15:36
Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
ICVVN093024

Manual Integrations APPROVED

Reviewed By :John Carlone 10/01/2024
Supervised By :Mahesh Dadoda 10/01/2024

Quant Time: Oct 01 07:14:39 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.M
Quant Title : SW846 8260
QLast Update : Tue Oct 01 07:11:01 2024
Response via : Initial Calibration

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

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

ICAL Form

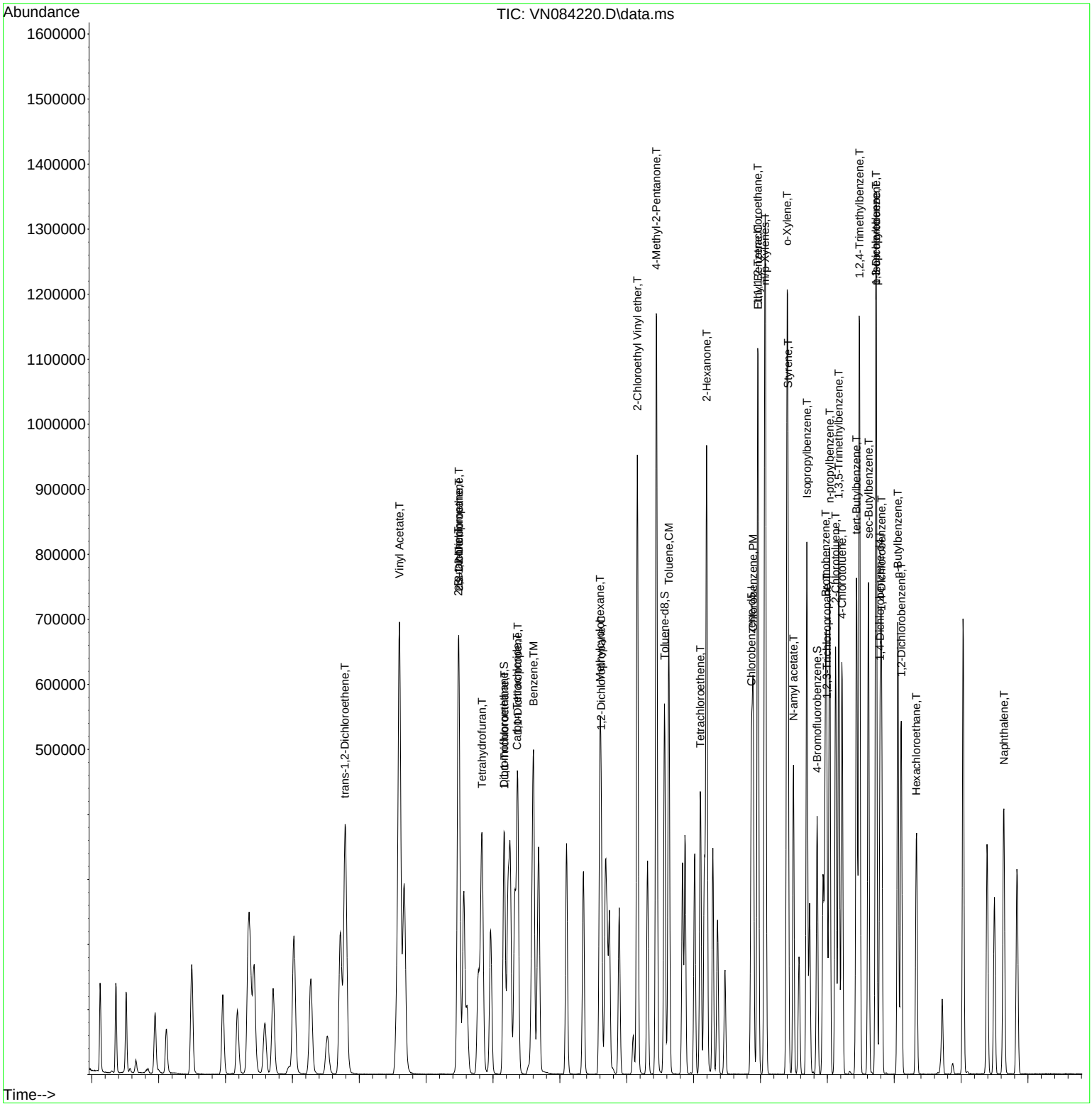
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN093024\
Data File : VN084220.D
Acq On : 30 Sep 2024 15:36
Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Oct 01 07:14:39 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.M
Quant Title : SW846 8260
QLast Update : Tue Oct 01 07:11:01 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
ICVVN093024

Manual Integrations APPROVED

Reviewed By :John Carlone 10/01/2024
Supervised By :Mahesh Dadoda 10/01/2024



Evaluate Continuing Calibration Report

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN093024\
Data File : VN084220.D
Acq On : 30 Sep 2024 15:36
Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
ICVVN093024

Quant Time: Oct 01 07:14:39 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.M
Quant Title : SW846 8260
QLast Update : Tue Oct 01 07:11:01 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	99	0.00
2	T	Dichlorodifluoromethane	0.591	0.624	-5.6	101	0.00
3	P	Chloromethane	0.675	0.695	-3.0	103	0.00
4	C	Vinyl Chloride	0.654	0.670	-2.4#	100	0.00
5	T	Bromomethane	0.431	0.411	4.6	94	0.00
6	T	Chloroethane	0.468	0.423	9.6	100	0.00
7	T	Trichlorofluoromethane	1.019	1.082	-6.2	101	0.00
8	T	Diethyl Ether	0.378	0.404	-6.9	103	0.00
9	T	1,1,2-Trichlorotrifluoroeth	0.584	0.602	-3.1	101	0.00
10	T	Methyl Iodide	0.752	0.812	-8.0	100	0.00
11	T	Tert butyl alcohol	0.122	0.126	-3.3	101	0.00
12	CM	1,1-Dichloroethene	0.563	0.597	-6.0#	101	0.00
13	T	Acrolein	0.140	0.145	-3.6	101	0.00
14	T	Allyl chloride	0.978	0.999	-2.1	100	0.00
15	T	Acrylonitrile	0.309	0.337	-9.1	106	0.00
16	T	Acetone	0.318	0.354	-11.3	103	0.00
17	T	Carbon Disulfide	1.782	1.736	2.6	100	0.00
18	T	Methyl Acetate	0.694	0.749	-7.9	105	0.00
19	T	Methyl tert-butyl Ether	1.900	2.066	-8.7	101	0.00
20	T	Methylene Chloride	0.647	0.675	-4.3	102	0.00
21	T	trans-1,2-Dichloroethene	0.590	0.625	-5.9	100	0.00
22	T	Diisopropyl ether	2.022	2.208	-9.2	101	0.00
23	T	Vinyl Acetate	1.500	1.713	-14.2	103	0.00
24	P	1,1-Dichloroethane	1.131	1.214	-7.3	101	0.00
25	T	2-Butanone	0.434	0.490	-12.9	108	0.00
26	T	2,2-Dichloropropane	1.020	1.090	-6.9	100	0.00
27	T	cis-1,2-Dichloroethene	0.713	0.739	-3.6	99	0.00
28	T	Bromochloromethane	0.505	0.486	3.8	98	0.00
29	T	Tetrahydrofuran	0.268	0.302	-12.7	106	0.00
30	C	Chloroform	1.175	1.226	-4.3#	101	0.00
31	T	Cyclohexane	1.098	1.094	0.4	102	0.00
32	T	1,1,1-Trichloroethane	1.055	1.127	-6.8	102	0.00
33	S	1,2-Dichloroethane-d4	0.741	0.750	-1.2	101	0.00
34	I	1,4-Difluorobenzene	1.000	1.000	0.0	99	0.00
35	S	Dibromofluoromethane	0.330	0.333	-0.9	102	0.00
36	T	1,1-Dichloropropene	0.479	0.516	-7.7	100	0.00
37	T	Ethyl Acetate	0.491	0.531	-8.1	104	0.00
38	T	Carbon Tetrachloride	0.525	0.563	-7.2	101	0.00
39	T	Methylcyclohexane	0.533	0.604	-13.3	102	0.00
40	TM	Benzene	1.492	1.590	-6.6	101	0.00
41	T	Methacrylonitrile	0.267	0.297	-11.2	102	0.00
42	TM	1,2-Dichloroethane	0.506	0.548	-8.3	103	0.00
43	T	Isopropyl Acetate	0.962	0.926	3.7	102	0.00
44	TM	Trichloroethene	0.348	0.365	-4.9	100	0.00
45	C	1,2-Dichloropropane	0.353	0.386	-9.3#	102	0.00
46	T	Dibromomethane	0.238	0.267	-12.2	102	0.00
47	T	Bromodichloromethane	0.529	0.575	-8.7	102	0.00
48	T	Methyl methacrylate	0.383	0.440	-14.9	104	0.00

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN093024\
Data File : VN084220.D
Acq On : 30 Sep 2024 15:36
Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
ICVVN093024

Quant Time: Oct 01 07:14:39 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.M
Quant Title : SW846 8260
QLast Update : Tue Oct 01 07:11:01 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	0.007	0.008	-14.3	106	0.00
50	S	Toluene-d8	1.213	1.289	-6.3	103	0.00
51	T	4-Methyl-2-Pentanone	0.468	0.537	-14.7	105	0.00
52	CM	Toluene	0.910	0.986	-8.4#	101	0.00
53	T	t-1,3-Dichloropropene	0.539	0.609	-13.0	102	0.00
54	T	cis-1,3-Dichloropropene	0.580	0.643	-10.9	100	0.00
55	T	1,1,2-Trichloroethane	0.326	0.361	-10.7	102	0.00
56	T	Ethyl methacrylate	0.537	0.628	-16.9	103	0.00
57	T	1,3-Dichloropropane	0.583	0.638	-9.4	102	0.00
58	T	2-Chloroethyl Vinyl ether	0.249	0.276	-10.8	97	0.00
59	T	2-Hexanone	0.349	0.413	-18.3	106	0.00
60	T	Dibromochloromethane	0.385	0.425	-10.4	101	0.00
61	T	1,2-Dibromoethane	0.339	0.370	-9.1	102	0.00
62	S	4-Bromofluorobenzene	0.442	0.468	-5.9	103	0.00
63	I	Chlorobenzene-d5	1.000	1.000	0.0	99	0.00
64	T	Tetrachloroethene	0.348	0.366	-5.2	102	0.00
65	PM	Chlorobenzene	1.109	1.187	-7.0	101	0.00
66	T	1,1,1,2-Tetrachloroethane	0.382	0.423	-10.7	104	0.00
67	C	Ethyl Benzene	1.961	2.179	-11.1#	102	0.00
68	T	m/p-Xylenes	0.725	0.825	-13.8	102	0.00
69	T	o-Xylene	0.686	0.796	-16.0	102	0.00
70	T	Styrene	1.162	1.351	-16.3	102	0.00
71	P	Bromoform	0.281	0.322	-14.6	102	0.00
72	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	102	0.00
73	T	Isopropylbenzene	3.815	4.090	-7.2	101	0.00
74	T	N-amyl acetate	1.728	1.905	-10.2	105	0.00
75	P	1,1,2,2-Tetrachloroethane	1.147	1.202	-4.8	104	0.00
76	T	1,2,3-Trichloropropane	1.021	1.030	-0.9	94	0.00
77	T	Bromobenzene	0.920	0.951	-3.4	103	0.00
78	T	n-propylbenzene	4.421	4.879	-10.4	102	0.00
79	T	2-Chlorotoluene	2.821	2.984	-5.8	101	0.00
80	T	1,3,5-Trimethylbenzene	3.112	3.492	-12.2	102	0.00
81	T	trans-1,4-Dichloro-2-butene	0.426	0.451	-5.9	102	0.00
82	T	4-Chlorotoluene	2.840	3.036	-6.9	103	0.00
83	T	tert-Butylbenzene	2.766	2.982	-7.8	101	0.00
84	T	1,2,4-Trimethylbenzene	3.135	3.524	-12.4	103	0.00
85	T	sec-Butylbenzene	3.691	4.101	-11.1	101	0.00
86	T	p-Isopropyltoluene	3.052	3.456	-13.2	101	0.00
87	T	1,3-Dichlorobenzene	1.727	1.790	-3.6	103	0.00
88	T	1,4-Dichlorobenzene	1.744	1.789	-2.6	103	0.00
89	T	n-Butylbenzene	2.768	3.026	-9.3	100	0.00
90	T	Hexachloroethane	0.620	0.629	-1.5	101	0.00
91	T	1,2-Dichlorobenzene	1.693	1.730	-2.2	104	0.00
92	T	1,2-Dibromo-3-Chloropropane	0.237	0.247	-4.2	106	0.00
93	T	1,2,4-Trichlorobenzene	0.834	0.872	-4.6	96	0.00
94	T	Hexachlorobutadiene	0.416	0.386	7.2	100	0.00
95	T	Naphthalene	2.764	2.908	-5.2	97	0.00

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN093024\
Data File : VN084220.D
Acq On : 30 Sep 2024 15:36
Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
ICVVN093024

Quant Time: Oct 01 07:14:39 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.M
Quant Title : SW846 8260
QLast Update : Tue Oct 01 07:11:01 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	0.835	0.849	-1.7	97	0.00

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

Evaluate Continuing Calibration Report

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN093024\
Data File : VN084220.D
Acq On : 30 Sep 2024 15:36
Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
ICVVN093024

Quant Time: Oct 01 07:14:39 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.M
Quant Title : SW846 8260
QLast Update : Tue Oct 01 07:11:01 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	99	0.00
2	T	Dichlorodifluoromethane	50.000	52.712	-5.4	101	0.00
3	P	Chloromethane	50.000	51.477	-3.0	103	0.00
4	C	Vinyl Chloride	50.000	51.235	-2.5#	100	0.00
5	T	Bromomethane	50.000	47.656	4.7	94	0.00
6	T	Chloroethane	50.000	45.119	9.8	100	0.00
7	T	Trichlorofluoromethane	50.000	53.099	-6.2	101	0.00
8	T	Diethyl Ether	50.000	53.445	-6.9	103	0.00
9	T	1,1,2-Trichlorotrifluoroeth	50.000	51.573	-3.1	101	0.00
10	T	Methyl Iodide	50.000	53.996	-8.0	100	0.00
11	T	Tert butyl alcohol	250.000	257.154	-2.9	101	0.00
12	CM	1,1-Dichloroethene	50.000	53.064	-6.1#	101	0.00
13	T	Acrolein	250.000	257.587	-3.0	101	0.00
14	T	Allyl chloride	50.000	51.092	-2.2	100	0.00
15	T	Acrylonitrile	250.000	273.264	-9.3	106	0.00
16	T	Acetone	250.000	277.547	-11.0	103	0.00
17	T	Carbon Disulfide	50.000	48.693	2.6	100	0.00
18	T	Methyl Acetate	50.000	53.948	-7.9	105	0.00
19	T	Methyl tert-butyl Ether	50.000	54.371	-8.7	101	0.00
20	T	Methylene Chloride	50.000	52.116	-4.2	102	0.00
21	T	trans-1,2-Dichloroethene	50.000	52.980	-6.0	100	0.00
22	T	Diisopropyl ether	50.000	54.579	-9.2	101	0.00
23	T	Vinyl Acetate	250.000	285.569	-14.2	103	0.00
24	P	1,1-Dichloroethane	50.000	53.676	-7.4	101	0.00
25	T	2-Butanone	250.000	282.397	-13.0	108	0.00
26	T	2,2-Dichloropropane	50.000	53.428	-6.9	100	0.00
27	T	cis-1,2-Dichloroethene	50.000	51.876	-3.8	99	0.00
28	T	Bromochloromethane	50.000	48.129	3.7	98	0.00
29	T	Tetrahydrofuran	250.000	281.940	-12.8	106	0.00
30	C	Chloroform	50.000	52.184	-4.4#	101	0.00
31	T	Cyclohexane	50.000	49.809	0.4	102	0.00
32	T	1,1,1-Trichloroethane	50.000	53.395	-6.8	102	0.00
33	S	1,2-Dichloroethane-d4	50.000	50.564	-1.1	101	0.00
34	I	1,4-Difluorobenzene	50.000	50.000	0.0	99	0.00
35	S	Dibromofluoromethane	50.000	50.508	-1.0	102	0.00
36	T	1,1-Dichloropropene	50.000	53.917	-7.8	100	0.00
37	T	Ethyl Acetate	50.000	54.043	-8.1	104	0.00
38	T	Carbon Tetrachloride	50.000	53.593	-7.2	101	0.00
39	T	Methylcyclohexane	50.000	56.648	-13.3	102	0.00
40	TM	Benzene	50.000	53.301	-6.6	101	0.00
41	T	Methacrylonitrile	50.000	55.708	-11.4	102	0.00
42	TM	1,2-Dichloroethane	50.000	54.131	-8.3	103	0.00
43	T	Isopropyl Acetate	50.000	48.126	3.7	102	0.00
44	TM	Trichloroethene	50.000	52.368	-4.7	100	0.00
45	C	1,2-Dichloropropane	50.000	54.694	-9.4#	102	0.00
46	T	Dibromomethane	50.000	56.015	-12.0	102	0.00
47	T	Bromodichloromethane	50.000	54.335	-8.7	102	0.00
48	T	Methyl methacrylate	50.000	57.391	-14.8	104	0.00

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN093024\
Data File : VN084220.D
Acq On : 30 Sep 2024 15:36
Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
ICVVN093024

Quant Time: Oct 01 07:14:39 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.M
Quant Title : SW846 8260
QLast Update : Tue Oct 01 07:11:01 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	1111.545	-11.2	106	0.00
50	S	Toluene-d8	50.000	53.129	-6.3	103	0.00
51	T	4-Methyl-2-Pentanone	250.000	287.336	-14.9	105	0.00
52	CM	Toluene	50.000	54.185	-8.4#	101	0.00
53	T	t-1,3-Dichloropropene	50.000	56.426	-12.9	102	0.00
54	T	cis-1,3-Dichloropropene	50.000	55.416	-10.8	100	0.00
55	T	1,1,2-Trichloroethane	50.000	55.307	-10.6	102	0.00
56	T	Ethyl methacrylate	50.000	58.561	-17.1	103	0.00
57	T	1,3-Dichloropropane	50.000	54.738	-9.5	102	0.00
58	T	2-Chloroethyl Vinyl ether	250.000	277.315	-10.9	97	0.00
59	T	2-Hexanone	250.000	295.238	-18.1	106	0.00
60	T	Dibromochloromethane	50.000	55.105	-10.2	101	0.00
61	T	1,2-Dibromoethane	50.000	54.548	-9.1	102	0.00
62	S	4-Bromofluorobenzene	50.000	52.971	-5.9	103	0.00
63	I	Chlorobenzene-d5	50.000	50.000	0.0	99	0.00
64	T	Tetrachloroethene	50.000	52.585	-5.2	102	0.00
65	PM	Chlorobenzene	50.000	53.555	-7.1	101	0.00
66	T	1,1,1,2-Tetrachloroethane	50.000	55.381	-10.8	104	0.00
67	C	Ethyl Benzene	50.000	55.563	-11.1#	102	0.00
68	T	m/p-Xylenes	100.000	113.748	-13.7	102	0.00
69	T	o-Xylene	50.000	58.032	-16.1	102	0.00
70	T	Styrene	50.000	58.136	-16.3	102	0.00
71	P	Bromoform	50.000	57.258	-14.5	102	0.00
72	I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	102	0.00
73	T	Isopropylbenzene	50.000	53.604	-7.2	101	0.00
74	T	N-amyl acetate	50.000	55.118	-10.2	105	0.00
75	P	1,1,2,2-Tetrachloroethane	50.000	52.398	-4.8	104	0.00
76	T	1,2,3-Trichloropropane	50.000	50.475	-1.0	94	0.00
77	T	Bromobenzene	50.000	51.676	-3.4	103	0.00
78	T	n-propylbenzene	50.000	55.188	-10.4	102	0.00
79	T	2-Chlorotoluene	50.000	52.898	-5.8	101	0.00
80	T	1,3,5-Trimethylbenzene	50.000	56.101	-12.2	102	0.00
81	T	trans-1,4-Dichloro-2-butene	50.000	52.939	-5.9	102	0.00
82	T	4-Chlorotoluene	50.000	53.455	-6.9	103	0.00
83	T	tert-Butylbenzene	50.000	53.903	-7.8	101	0.00
84	T	1,2,4-Trimethylbenzene	50.000	56.199	-12.4	103	0.00
85	T	sec-Butylbenzene	50.000	55.556	-11.1	101	0.00
86	T	p-Isopropyltoluene	50.000	56.614	-13.2	101	0.00
87	T	1,3-Dichlorobenzene	50.000	51.830	-3.7	103	0.00
88	T	1,4-Dichlorobenzene	50.000	51.298	-2.6	103	0.00
89	T	n-Butylbenzene	50.000	54.671	-9.3	100	0.00
90	T	Hexachloroethane	50.000	50.795	-1.6	101	0.00
91	T	1,2-Dichlorobenzene	50.000	51.082	-2.2	104	0.00
92	T	1,2-Dibromo-3-Chloropropane	50.000	52.125	-4.3	106	0.00
93	T	1,2,4-Trichlorobenzene	50.000	52.311	-4.6	96	0.00
94	T	Hexachlorobutadiene	50.000	46.368	7.3	100	0.00
95	T	Naphthalene	50.000	52.602	-5.2	97	0.00

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN093024\
Data File : VN084220.D
Acq On : 30 Sep 2024 15:36
Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
ICVVN093024

Quant Time: Oct 01 07:14:39 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.M
Quant Title : SW846 8260
QLast Update : Tue Oct 01 07:11:01 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	50.853	-1.7	97	0.00

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

Raw Data: **VN084503.D**

Alliance TECHNICAL GROUP

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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: GARD04

Lab Code: CHEM Case No.: P4528 SAS No.: P4528 SDG No.: P4528

Instrument ID: MSVOA_N Calibration Date/Time: 10/25/2024 08:59

Lab File ID: VN084503.D Init. Calib. Date(s): 09/30/2024 09/30/2024

Heated Purge: (Y/N) N Init. Calib. Time(s): 12:25 14:48

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.591	0.431		-27.07	20
Chloromethane	0.675	0.535	0.1	-20.74	20
Vinyl Chloride	0.654	0.560		-14.37	20
Bromomethane	0.431	0.358		-16.94	20
Chloroethane	0.468	0.374		-20.08	20
Trichlorofluoromethane	1.019	0.965		-5.3	20
1,1,2-Trichlorotrifluoroethane	0.584	0.570		-2.4	20
1,1-Dichloroethene	0.563	0.545		-3.2	20
Acetone	0.318	0.365		14.78	20
Carbon Disulfide	1.782	1.442		-19.08	20
Methyl tert-butyl Ether	1.900	1.987		4.58	20
Methyl Acetate	0.694	0.700		0.87	20
Methylene Chloride	0.647	0.639		-1.24	20
trans-1,2-Dichloroethene	0.590	0.585		-0.85	20
1,1-Dichloroethane	1.131	1.151	0.1	1.77	20
Cyclohexane	1.098	0.947		-13.75	20
2-Butanone	0.434	0.461		6.22	20
Carbon Tetrachloride	0.525	0.544		3.62	20
cis-1,2-Dichloroethene	0.713	0.722		1.26	20
Bromochloromethane	0.505	0.496		-1.78	20
Chloroform	1.175	1.213		3.23	20
1,1,1-Trichloroethane	1.055	1.069		1.33	20
Methylcyclohexane	0.533	0.535		0.38	20
Benzene	1.492	1.554		4.16	20
1,2-Dichloroethane	0.506	0.527		4.15	20
Trichloroethene	0.348	0.361		3.74	20
1,2-Dichloropropane	0.353	0.381		7.93	20
Bromodichloromethane	0.529	0.576		8.89	20
4-Methyl-2-Pentanone	0.468	0.513		9.61	20
Toluene	0.910	0.983		8.02	20
t-1,3-Dichloropropene	0.539	0.592		9.83	20
cis-1,3-Dichloropropene	0.580	0.639		10.17	20
1,1,2-Trichloroethane	0.326	0.364		11.66	20
2-Hexanone	0.349	0.394		12.89	20
Dibromochloromethane	0.385	0.437		13.51	20
1,2-Dibromoethane	0.339	0.371		9.44	20
Tetrachloroethene	0.348	0.356		2.3	20
Chlorobenzene	1.109	1.176	0.3	6.04	20

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

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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: GARD04

Lab Code: CHEM Case No.: P4528 SAS No.: P4528 SDG No.: P4528

Instrument ID: MSVOA_N Calibration Date/Time: 10/25/2024 08:59

Lab File ID: VN084503.D Init. Calib. Date(s): 09/30/2024 09/30/2024

Heated Purge: (Y/N) N Init. Calib. Time(s): 12:25 14:48

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Ethyl Benzene	1.961	2.097		6.93	20
m/p-Xylenes	0.725	0.806		11.17	20
o-Xylene	0.686	0.757		10.35	20
Styrene	1.162	1.339		15.23	20
Bromoform	0.281	0.317	0.1	12.81	20
Isopropylbenzene	3.815	3.921		2.78	20
1,1,2,2-Tetrachloroethane	1.147	1.156	0.3	0.79	20
1,3-Dichlorobenzene	1.727	1.755		1.62	20
1,4-Dichlorobenzene	1.744	1.742		-0.12	20
1,2-Dichlorobenzene	1.693	1.683		-0.59	20
1,2-Dibromo-3-Chloropropane	0.237	0.222		-6.33	20
1,2,4-Trichlorobenzene	0.834	0.871		4.44	20
1,2,3-Trichlorobenzene	0.835	0.846		1.32	20
1,2-Dichloroethane-d4	0.741	0.751		1.35	20
Dibromofluoromethane	0.330	0.363		10	20
Toluene-d8	1.213	1.283		5.77	20
4-Bromofluorobenzene	0.442	0.496		12.22	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\VN102524\
Data File : VN084503.D
Acq On : 25 Oct 2024 08:59
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 25 23:26:04 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.M
Quant Title : SW846 8260
QLast Update : Tue Oct 01 07:11:01 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 10/28/2024
Supervised By :Mahesh Dadoda 10/28/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.224	168	182036	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	306519	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	274612	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	138591	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	136646	50.628	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 101.260%			
35) Dibromofluoromethane	8.165	113	111177	55.017	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 110.040%			
50) Toluene-d8	10.565	98	393204	52.888	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 105.780%			
62) 4-Bromofluorobenzene	12.847	95	151926	56.092	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 112.180%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.124	85	78372	36.398	ug/l	94
3) Chloromethane	2.359	50	97478	39.648	ug/l	96
4) Vinyl Chloride	2.512	62	101959	42.813	ug/l	99
5) Bromomethane	2.954	94	65216	41.516	ug/l	98
6) Chloroethane	3.118	64	68025	39.884	ug/l	98
7) Trichlorofluoromethane	3.501	101	175700	47.378	ug/l	99
8) Diethyl Ether	3.959	74	66547	48.384	ug/l	98
9) 1,1,2-Trichlorotrifluo...	4.371	101	103796	48.848	ug/l	99
10) Methyl Iodide	4.589	142	132208	48.314	ug/l	99
11) Tert butyl alcohol	5.518	59	102421	230.135	ug/l	99
12) 1,1-Dichloroethene	4.342	96	99299	48.448	ug/l	99
13) Acrolein	4.177	56	119107	233.122	ug/l	99
14) Allyl chloride	5.024	41	159978	44.943	ug/l	99
15) Acrylonitrile	5.718	53	283323	252.096	ug/l	99
16) Acetone	4.424	43	332361	286.656	ug/l	99
17) Carbon Disulfide	4.712	76	262424	40.440	ug/l	97
18) Methyl Acetate	5.024	43	127400	50.414	ug/l	100
19) Methyl tert-butyl Ether	5.789	73	361709	52.287	ug/l	97
20) Methylene Chloride	5.277	84	116230	49.315	ug/l	94
21) trans-1,2-Dichloroethene	5.789	96	106580	49.634	ug/l	97
22) Diisopropyl ether	6.671	45	377582	51.282	ug/l	97
23) Vinyl Acetate	6.600	43	1413227	258.787	ug/l	99
24) 1,1-Dichloroethane	6.565	63	209603	50.906	ug/l	99
25) 2-Butanone	7.483	43	419219	265.466	ug/l	100
26) 2,2-Dichloropropane	7.489	77	188590	50.799	ug/l	98
27) cis-1,2-Dichloroethene	7.489	96	131412	50.644	ug/l	98
28) Bromochloromethane	7.812	49	90237	49.119	ug/l	97
29) Tetrahydrofuran	7.836	42	244782	251.177	ug/l	97
30) Chloroform	7.965	83	220877	51.643	ug/l	97
31) Cyclohexane	8.253	56	172359	43.113	ug/l	99
32) 1,1,1-Trichloroethane	8.165	97	194610	50.664	ug/l	99
36) 1,1-Dichloropropene	8.371	75	149163	50.818	ug/l	99
37) Ethyl Acetate	7.553	43	154236	51.219	ug/l	99
38) Carbon Tetrachloride	8.359	117	166783	51.799	ug/l	98
39) Methylcyclohexane	9.600	83	164018	50.207	ug/l	98
40) Benzene	8.606	78	476364	52.089	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102524\
Data File : VN084503.D
Acq On : 25 Oct 2024 08:59
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 25 23:26:04 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.M
Quant Title : SW846 8260
QLast Update : Tue Oct 01 07:11:01 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 10/28/2024
Supervised By :Mahesh Dadoda 10/28/2024

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.771	41	83663	51.176	ug/l		96
42) 1,2-Dichloroethane	8.665	62	161416	52.064	ug/l		99
43) Isopropyl Acetate	8.683	43	291182	49.368	ug/l		98
44) Trichloroethene	9.353	130	110560	51.762	ug/l		99
45) 1,2-Dichloropropane	9.618	63	116927	54.048	ug/l		98
46) Dibromomethane	9.706	93	81712	55.969	ug/l		98
47) Bromodichloromethane	9.888	83	176433	54.395	ug/l	#	97
48) Methyl methacrylate	9.677	41	122412	52.136	ug/l		98
49) 1,4-Dioxane	9.694	88	42259	977.637	ug/l	#	82
51) 4-Methyl-2-Pentanone	10.441	43	786274	274.285	ug/l		99
52) Toluene	10.630	92	301445	54.054	ug/l		100
53) t-1,3-Dichloropropene	10.835	75	181476	54.888	ug/l		99
54) cis-1,3-Dichloropropene	10.312	75	195885	55.080	ug/l		99
55) 1,1,2-Trichloroethane	11.012	97	111558	55.801	ug/l		96
56) Ethyl methacrylate	10.871	69	185958	56.529	ug/l		98
57) 1,3-Dichloropropane	11.159	76	194415	54.423	ug/l		99
58) 2-Chloroethyl Vinyl ether	10.159	63	421419	276.155	ug/l		99
59) 2-Hexanone	11.194	43	603310	281.584	ug/l		99
60) Dibromochloromethane	11.359	129	133861	56.669	ug/l		99
61) 1,2-Dibromoethane	11.465	107	113691	54.729	ug/l		100
64) Tetrachloroethene	11.100	164	97893	51.180	ug/l		96
65) Chlorobenzene	11.888	112	322959	53.042	ug/l		96
66) 1,1,1,2-Tetrachloroethane	11.959	131	112949	53.856	ug/l		98
67) Ethyl Benzene	11.965	91	575865	53.480	ug/l		99
68) m/p-Xylenes	12.071	106	442765	111.160	ug/l		100
69) o-Xylene	12.394	106	207862	55.158	ug/l		98
70) Styrene	12.406	104	367629	57.594	ug/l		98
71) Bromoform	12.576	173	87003	56.348	ug/l	#	97
73) Isopropylbenzene	12.694	105	543431	51.385	ug/l		99
74) N-amyl acetate	12.494	43	237218	49.533	ug/l		99
75) 1,1,2,2-Tetrachloroethane	12.935	83	160145	50.359	ug/l		98
76) 1,2,3-Trichloropropane	12.988	75	134170m	47.420	ug/l		
77) Bromobenzene	12.976	156	131034	51.366	ug/l		95
78) n-propylbenzene	13.035	91	649179	52.981	ug/l		99
79) 2-Chlorotoluene	13.123	91	396945	50.768	ug/l		99
80) 1,3,5-Trimethylbenzene	13.171	105	464199	53.809	ug/l		99
81) trans-1,4-Dichloro-2-b...	12.735	75	58442m	49.520	ug/l		
82) 4-Chlorotoluene	13.218	91	406014	51.584	ug/l		98
83) tert-Butylbenzene	13.435	119	376330	49.081	ug/l		98
84) 1,2,4-Trimethylbenzene	13.482	105	465072	53.515	ug/l		100
85) sec-Butylbenzene	13.612	105	544439	53.211	ug/l		99
86) p-Isopropyltoluene	13.729	119	456315	53.933	ug/l		100
87) 1,3-Dichlorobenzene	13.729	146	243161	50.810	ug/l		99
88) 1,4-Dichlorobenzene	13.806	146	241454	49.961	ug/l		100
89) n-Butylbenzene	14.053	91	404862	52.772	ug/l		100
90) Hexachloroethane	14.329	117	84136	48.991	ug/l		98
91) 1,2-Dichlorobenzene	14.100	146	233253	49.707	ug/l		100
92) 1,2-Dibromo-3-Chloropr...	14.717	75	30813	46.955	ug/l		95
93) 1,2,4-Trichlorobenzene	15.388	180	120724	52.231	ug/l		99
94) Hexachlorobutadiene	15.500	225	54186	47.010	ug/l		98
95) Naphthalene	15.635	128	381581	49.799	ug/l		99
96) 1,2,3-Trichlorobenzene	15.835	180	117270	50.686	ug/l		99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102524\
Data File : VN084503.D
Acq On : 25 Oct 2024 08:59
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 25 23:26:04 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.M
Quant Title : SW846 8260
QLast Update : Tue Oct 01 07:11:01 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 10/28/2024
Supervised By :Mahesh Dadoda 10/28/2024

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

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

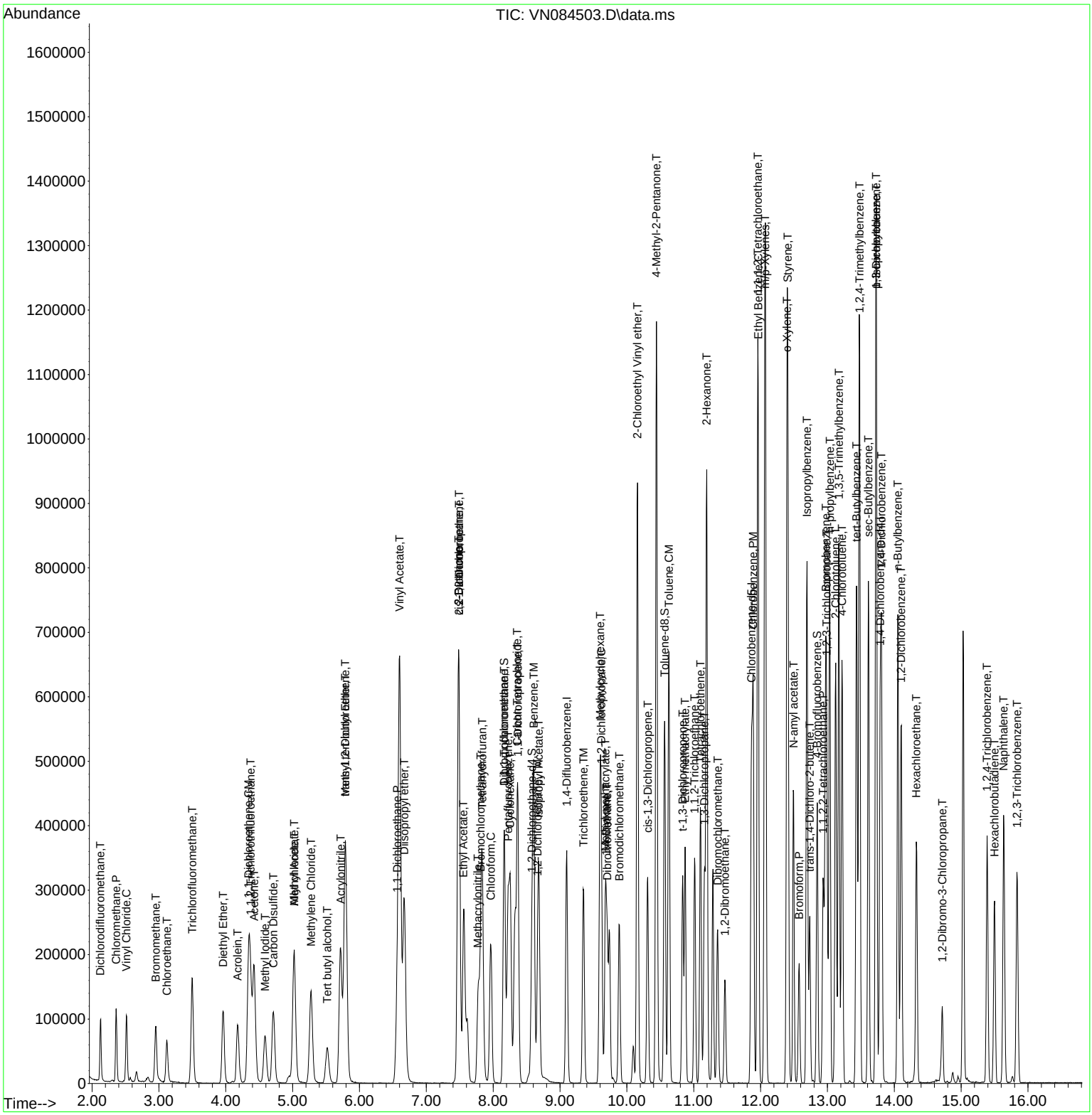
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102524\
Data File : VN084503.D
Acq On : 25 Oct 2024 08:59
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 25 23:26:04 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.M
Quant Title : SW846 8260
QLast Update : Tue Oct 01 07:11:01 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 10/28/2024
Supervised By :Mahesh Dadoda 10/28/2024



Sample Results: **VN084503.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102524\
Data File : VN084503.D
Acq On : 25 Oct 2024 08:59
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC050

Quant Time: Oct 25 23:26:04 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.M
Quant Title : SW846 8260
QLast Update : Tue Oct 01 07:11:01 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	104	0.00
2	T	Dichlorodifluoromethane	0.591	0.431	27.1#	73	0.00
3	P	Chloromethane	0.675	0.535	20.7	83	0.00
4	C	Vinyl Chloride	0.654	0.560	14.4#	87	0.00
5	T	Bromomethane	0.431	0.358	16.9	86	0.00
6	T	Chloroethane	0.468	0.374	20.1	93	0.00
7	T	Trichlorofluoromethane	1.019	0.965	5.3	94	0.00
8	T	Diethyl Ether	0.378	0.366	3.2	97	0.00
9	T	1,1,2-Trichlorotrifluoroeth	0.584	0.570	2.4	100	0.00
10	T	Methyl Iodide	0.752	0.726	3.5	94	0.00
11	T	Tert butyl alcohol	0.122	0.113	7.4	95	0.00
12	CM	1,1-Dichloroethene	0.563	0.545	3.2#	96	0.00
13	T	Acrolein	0.140	0.131	6.4	95	0.00
14	T	Allyl chloride	0.978	0.879	10.1	92	0.00
15	T	Acrylonitrile	0.309	0.311	-0.6	102	0.00
16	T	Acetone	0.318	0.365	-14.8	111	0.00
17	T	Carbon Disulfide	1.782	1.442	19.1	87	0.00
18	T	Methyl Acetate	0.694	0.700	-0.9	103	0.00
19	T	Methyl tert-butyl Ether	1.900	1.987	-4.6	101	0.00
20	T	Methylene Chloride	0.647	0.639	1.2	101	0.00
21	T	trans-1,2-Dichloroethene	0.590	0.585	0.8	98	0.00
22	T	Diisopropyl ether	2.022	2.074	-2.6	99	0.00
23	T	Vinyl Acetate	1.500	1.553	-3.5	98	0.00
24	P	1,1-Dichloroethane	1.131	1.151	-1.8	100	0.00
25	T	2-Butanone	0.434	0.461	-6.2	106	0.00
26	T	2,2-Dichloropropane	1.020	1.036	-1.6	99	0.00
27	T	cis-1,2-Dichloroethene	0.713	0.722	-1.3	101	0.00
28	T	Bromochloromethane	0.505	0.496	1.8	104	0.00
29	T	Tetrahydrofuran	0.268	0.269	-0.4	99	0.00
30	C	Chloroform	1.175	1.213	-3.2#	105	0.00
31	T	Cyclohexane	1.098	0.947	13.8	92	0.00
32	T	1,1,1-Trichloroethane	1.055	1.069	-1.3	101	0.00
33	S	1,2-Dichloroethane-d4	0.741	0.751	-1.3	106	0.00
34	I	1,4-Difluorobenzene	1.000	1.000	0.0	101	0.00
35	S	Dibromofluoromethane	0.330	0.363	-10.0	113	0.00
36	T	1,1-Dichloropropene	0.479	0.487	-1.7	96	0.00
37	T	Ethyl Acetate	0.491	0.503	-2.4	101	0.00
38	T	Carbon Tetrachloride	0.525	0.544	-3.6	100	0.00
39	T	Methylcyclohexane	0.533	0.535	-0.4	92	0.00
40	TM	Benzene	1.492	1.554	-4.2	101	0.00
41	T	Methacrylonitrile	0.267	0.273	-2.2	96	0.00
42	TM	1,2-Dichloroethane	0.506	0.527	-4.2	101	0.00
43	T	Isopropyl Acetate	0.962	0.950	1.2	107	0.00
44	TM	Trichloroethene	0.348	0.361	-3.7	100	0.00
45	C	1,2-Dichloropropane	0.353	0.381	-7.9#	102	0.00
46	T	Dibromomethane	0.238	0.267	-12.2	103	0.00
47	T	Bromodichloromethane	0.529	0.576	-8.9	104	0.00
48	T	Methyl methacrylate	0.383	0.399	-4.2	96	0.00

Sample Results: **VN084503.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102524\
Data File : VN084503.D
Acq On : 25 Oct 2024 08:59
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC050

Quant Time: Oct 25 23:26:04 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.M
Quant Title : SW846 8260
QLast Update : Tue Oct 01 07:11:01 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	0.007	0.007	0.0	95	0.00
50	S	Toluene-d8	1.213	1.283	-5.8	104	0.00
51	T	4-Methyl-2-Pentanone	0.468	0.513	-9.6	102	0.00
52	CM	Toluene	0.910	0.983	-8.0#	102	0.00
53	T	t-1,3-Dichloropropene	0.539	0.592	-9.8	101	0.00
54	T	cis-1,3-Dichloropropene	0.580	0.639	-10.2	101	0.00
55	T	1,1,2-Trichloroethane	0.326	0.364	-11.7	105	0.00
56	T	Ethyl methacrylate	0.537	0.607	-13.0	102	0.00
57	T	1,3-Dichloropropane	0.583	0.634	-8.7	104	0.00
58	T	2-Chloroethyl Vinyl ether	0.249	0.275	-10.4	99	0.00
59	T	2-Hexanone	0.349	0.394	-12.9	103	0.00
60	T	Dibromochloromethane	0.385	0.437	-13.5	105	0.00
61	T	1,2-Dibromoethane	0.339	0.371	-9.4	104	0.00
62	S	4-Bromofluorobenzene	0.442	0.496	-12.2	111	0.00
63	I	Chlorobenzene-d5	1.000	1.000	0.0	104	0.00
64	T	Tetrachloroethene	0.348	0.356	-2.3	103	0.00
65	PM	Chlorobenzene	1.109	1.176	-6.0	104	0.00
66	T	1,1,1,2-Tetrachloroethane	0.382	0.411	-7.6	106	0.00
67	C	Ethyl Benzene	1.961	2.097	-6.9#	103	0.00
68	T	m/p-Xylenes	0.725	0.806	-11.2	104	0.00
69	T	o-Xylene	0.686	0.757	-10.3	101	0.00
70	T	Styrene	1.162	1.339	-15.2	106	0.00
71	P	Bromoform	0.281	0.317	-12.8	104	0.00
72	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	109	0.00
73	T	Isopropylbenzene	3.815	3.921	-2.8	103	0.00
74	T	N-amyl acetate	1.728	1.712	0.9	100	0.00
75	P	1,1,2,2-Tetrachloroethane	1.147	1.156	-0.8	106	0.00
76	T	1,2,3-Trichloropropane	1.021	0.968	5.2	93	0.00
77	T	Bromobenzene	0.920	0.945	-2.7	108	0.00
78	T	n-propylbenzene	4.421	4.684	-5.9	104	0.00
79	T	2-Chlorotoluene	2.821	2.864	-1.5	103	0.00
80	T	1,3,5-Trimethylbenzene	3.112	3.349	-7.6	104	0.00
81	T	trans-1,4-Dichloro-2-butene	0.426	0.422	0.9	102	0.00
82	T	4-Chlorotoluene	2.840	2.930	-3.2	105	0.00
83	T	tert-Butylbenzene	2.766	2.715	1.8	97	0.00
84	T	1,2,4-Trimethylbenzene	3.135	3.356	-7.0	103	0.00
85	T	sec-Butylbenzene	3.691	3.928	-6.4	103	0.00
86	T	p-Isopropyltoluene	3.052	3.293	-7.9	102	0.00
87	T	1,3-Dichlorobenzene	1.727	1.755	-1.6	107	0.00
88	T	1,4-Dichlorobenzene	1.744	1.742	0.1	106	0.00
89	T	n-Butylbenzene	2.768	2.921	-5.5	103	0.00
90	T	Hexachloroethane	0.620	0.607	2.1	103	0.00
91	T	1,2-Dichlorobenzene	1.693	1.683	0.6	107	0.00
92	T	1,2-Dibromo-3-Chloropropane	0.237	0.222	6.3	101	0.00
93	T	1,2,4-Trichlorobenzene	0.834	0.871	-4.4	101	0.00
94	T	Hexachlorobutadiene	0.416	0.391	6.0	107	0.00
95	T	Naphthalene	2.764	2.753	0.4	97	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102524\
Data File : VN084503.D
Acq On : 25 Oct 2024 08:59
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC050

Quant Time: Oct 25 23:26:04 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.M
Quant Title : SW846 8260
QLast Update : Tue Oct 01 07:11:01 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	0.835	0.846	-1.3	102	0.00

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

Sample Results: **VN084503.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102524\
Data File : VN084503.D
Acq On : 25 Oct 2024 08:59
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC050

Quant Time: Oct 25 23:26:04 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.M
Quant Title : SW846 8260
QLast Update : Tue Oct 01 07:11:01 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	104	0.00
2	T	Dichlorodifluoromethane	50.000	36.398	27.2#	73	0.00
3	P	Chloromethane	50.000	39.648	20.7	83	0.00
4	C	Vinyl Chloride	50.000	42.813	14.4#	87	0.00
5	T	Bromomethane	50.000	41.516	17.0	86	0.00
6	T	Chloroethane	50.000	39.884	20.2	93	0.00
7	T	Trichlorofluoromethane	50.000	47.378	5.2	94	0.00
8	T	Diethyl Ether	50.000	48.384	3.2	97	0.00
9	T	1,1,2-Trichlorotrifluoroeth	50.000	48.848	2.3	100	0.00
10	T	Methyl Iodide	50.000	48.314	3.4	94	0.00
11	T	Tert butyl alcohol	250.000	230.135	7.9	95	0.00
12	CM	1,1-Dichloroethene	50.000	48.448	3.1#	96	0.00
13	T	Acrolein	250.000	233.122	6.8	95	0.00
14	T	Allyl chloride	50.000	44.943	10.1	92	0.00
15	T	Acrylonitrile	250.000	252.096	-0.8	102	0.00
16	T	Acetone	250.000	286.656	-14.7	111	0.00
17	T	Carbon Disulfide	50.000	40.440	19.1	87	0.00
18	T	Methyl Acetate	50.000	50.414	-0.8	103	0.00
19	T	Methyl tert-butyl Ether	50.000	52.287	-4.6	101	0.00
20	T	Methylene Chloride	50.000	49.315	1.4	101	0.00
21	T	trans-1,2-Dichloroethene	50.000	49.634	0.7	98	0.00
22	T	Diisopropyl ether	50.000	51.282	-2.6	99	0.00
23	T	Vinyl Acetate	250.000	258.787	-3.5	98	0.00
24	P	1,1-Dichloroethane	50.000	50.906	-1.8	100	0.00
25	T	2-Butanone	250.000	265.466	-6.2	106	0.00
26	T	2,2-Dichloropropane	50.000	50.799	-1.6	99	0.00
27	T	cis-1,2-Dichloroethene	50.000	50.644	-1.3	101	0.00
28	T	Bromochloromethane	50.000	49.119	1.8	104	0.00
29	T	Tetrahydrofuran	250.000	251.177	-0.5	99	0.00
30	C	Chloroform	50.000	51.643	-3.3#	105	0.00
31	T	Cyclohexane	50.000	43.113	13.8	92	0.00
32	T	1,1,1-Trichloroethane	50.000	50.664	-1.3	101	0.00
33	S	1,2-Dichloroethane-d4	50.000	50.628	-1.3	106	0.00
34	I	1,4-Difluorobenzene	50.000	50.000	0.0	101	0.00
35	S	Dibromofluoromethane	50.000	55.017	-10.0	113	0.00
36	T	1,1-Dichloropropene	50.000	50.818	-1.6	96	0.00
37	T	Ethyl Acetate	50.000	51.219	-2.4	101	0.00
38	T	Carbon Tetrachloride	50.000	51.799	-3.6	100	0.00
39	T	Methylcyclohexane	50.000	50.207	-0.4	92	0.00
40	TM	Benzene	50.000	52.089	-4.2	101	0.00
41	T	Methacrylonitrile	50.000	51.176	-2.4	96	0.00
42	TM	1,2-Dichloroethane	50.000	52.064	-4.1	101	0.00
43	T	Isopropyl Acetate	50.000	49.368	1.3	107	0.00
44	TM	Trichloroethene	50.000	51.762	-3.5	100	0.00
45	C	1,2-Dichloropropane	50.000	54.048	-8.1#	102	0.00
46	T	Dibromomethane	50.000	55.969	-11.9	103	0.00
47	T	Bromodichloromethane	50.000	54.395	-8.8	104	0.00
48	T	Methyl methacrylate	50.000	52.136	-4.3	96	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102524\
Data File : VN084503.D
Acq On : 25 Oct 2024 08:59
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC050

Quant Time: Oct 25 23:26:04 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.M
Quant Title : SW846 8260
QLast Update : Tue Oct 01 07:11:01 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	977.637	2.2	95	0.00
50	S	Toluene-d8	50.000	52.888	-5.8	104	0.00
51	T	4-Methyl-2-Pentanone	250.000	274.285	-9.7	102	0.00
52	CM	Toluene	50.000	54.054	-8.1#	102	0.00
53	T	t-1,3-Dichloropropene	50.000	54.888	-9.8	101	0.00
54	T	cis-1,3-Dichloropropene	50.000	55.080	-10.2	101	0.00
55	T	1,1,2-Trichloroethane	50.000	55.801	-11.6	105	0.00
56	T	Ethyl methacrylate	50.000	56.529	-13.1	102	0.00
57	T	1,3-Dichloropropane	50.000	54.423	-8.8	104	0.00
58	T	2-Chloroethyl Vinyl ether	250.000	276.155	-10.5	99	0.00
59	T	2-Hexanone	250.000	281.584	-12.6	103	0.00
60	T	Dibromochloromethane	50.000	56.669	-13.3	105	0.00
61	T	1,2-Dibromoethane	50.000	54.729	-9.5	104	0.00
62	S	4-Bromofluorobenzene	50.000	56.092	-12.2	111	0.00
63	I	Chlorobenzene-d5	50.000	50.000	0.0	104	0.00
64	T	Tetrachloroethene	50.000	51.180	-2.4	103	0.00
65	PM	Chlorobenzene	50.000	53.042	-6.1	104	0.00
66	T	1,1,1,2-Tetrachloroethane	50.000	53.856	-7.7	106	0.00
67	C	Ethyl Benzene	50.000	53.480	-7.0#	103	0.00
68	T	m/p-Xylenes	100.000	111.160	-11.2	104	0.00
69	T	o-Xylene	50.000	55.158	-10.3	101	0.00
70	T	Styrene	50.000	57.594	-15.2	106	0.00
71	P	Bromoform	50.000	56.348	-12.7	104	0.00
72	I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	109	0.00
73	T	Isopropylbenzene	50.000	51.385	-2.8	103	0.00
74	T	N-amyl acetate	50.000	49.533	0.9	100	0.00
75	P	1,1,2,2-Tetrachloroethane	50.000	50.359	-0.7	106	0.00
76	T	1,2,3-Trichloropropane	50.000	47.420	5.2	93	0.00
77	T	Bromobenzene	50.000	51.366	-2.7	108	0.00
78	T	n-propylbenzene	50.000	52.981	-6.0	104	0.00
79	T	2-Chlorotoluene	50.000	50.768	-1.5	103	0.00
80	T	1,3,5-Trimethylbenzene	50.000	53.809	-7.6	104	0.00
81	T	trans-1,4-Dichloro-2-butene	50.000	49.520	1.0	102	0.00
82	T	4-Chlorotoluene	50.000	51.584	-3.2	105	0.00
83	T	tert-Butylbenzene	50.000	49.081	1.8	97	0.00
84	T	1,2,4-Trimethylbenzene	50.000	53.515	-7.0	103	0.00
85	T	sec-Butylbenzene	50.000	53.211	-6.4	103	0.00
86	T	p-Isopropyltoluene	50.000	53.933	-7.9	102	0.00
87	T	1,3-Dichlorobenzene	50.000	50.810	-1.6	107	0.00
88	T	1,4-Dichlorobenzene	50.000	49.961	0.1	106	0.00
89	T	n-Butylbenzene	50.000	52.772	-5.5	103	0.00
90	T	Hexachloroethane	50.000	48.991	2.0	103	0.00
91	T	1,2-Dichlorobenzene	50.000	49.707	0.6	107	0.00
92	T	1,2-Dibromo-3-Chloropropane	50.000	46.955	6.1	101	0.00
93	T	1,2,4-Trichlorobenzene	50.000	52.231	-4.5	101	0.00
94	T	Hexachlorobutadiene	50.000	47.010	6.0	107	0.00
95	T	Naphthalene	50.000	49.799	0.4	97	0.00

Sample Results: **VN084503.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102524\
Data File : VN084503.D
Acq On : 25 Oct 2024 08:59
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC050

Quant Time: Oct 25 23:26:04 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.M
Quant Title : SW846 8260
QLast Update : Tue Oct 01 07:11:01 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	50.686	-1.4	102	0.00

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

Raw Data: **VN084529.D**

Alliance TECHNICAL GROUP

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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: GARD04

Lab Code: CHEM Case No.: P4528 SAS No.: P4528 SDG No.: P4528

Instrument ID: MSVOA_N Calibration Date/Time: 10/28/2024 10:05

Lab File ID: VN084529.D Init. Calib. Date(s): 09/30/2024 09/30/2024

Heated Purge: (Y/N) N Init. Calib. Time(s): 12:25 14:48

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.591	0.521		-11.84	20
Chloromethane	0.675	0.598	0.1	-11.41	20
Vinyl Chloride	0.654	0.603		-7.8	20
Bromomethane	0.431	0.378		-12.3	20
Chloroethane	0.468	0.391		-16.45	20
Trichlorofluoromethane	1.019	1.025		0.59	20
1,1,2-Trichlorotrifluoroethane	0.584	0.582		-0.34	20
1,1-Dichloroethene	0.563	0.554		-1.6	20
Acetone	0.318	0.308		-3.14	20
Carbon Disulfide	1.782	1.501		-15.77	20
Methyl tert-butyl Ether	1.900	1.919		1	20
Methyl Acetate	0.694	0.782		12.68	20
Methylene Chloride	0.647	0.663		2.47	20
trans-1,2-Dichloroethene	0.590	0.607		2.88	20
1,1-Dichloroethane	1.131	1.164	0.1	2.92	20
Cyclohexane	1.098	0.962		-12.39	20
2-Butanone	0.434	0.425		-2.07	20
Carbon Tetrachloride	0.525	0.563		7.24	20
cis-1,2-Dichloroethene	0.713	0.739		3.65	20
Bromochloromethane	0.505	0.445		-11.88	20
Chloroform	1.175	1.237		5.28	20
1,1,1-Trichloroethane	1.055	1.088		3.13	20
Methylcyclohexane	0.533	0.520		-2.44	20
Benzene	1.492	1.585		6.23	20
1,2-Dichloroethane	0.506	0.528		4.35	20
Trichloroethene	0.348	0.368		5.75	20
1,2-Dichloropropane	0.353	0.387		9.63	20
Bromodichloromethane	0.529	0.582		10.02	20
4-Methyl-2-Pentanone	0.468	0.503		7.48	20
Toluene	0.910	0.991		8.9	20
t-1,3-Dichloropropene	0.539	0.580		7.61	20
cis-1,3-Dichloropropene	0.580	0.632		8.97	20
1,1,2-Trichloroethane	0.326	0.378		15.95	20
2-Hexanone	0.349	0.373		6.88	20
Dibromochloromethane	0.385	0.441		14.55	20
1,2-Dibromoethane	0.339	0.371		9.44	20
Tetrachloroethene	0.348	0.381		9.48	20
Chlorobenzene	1.109	1.155	0.3	4.15	20

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

Alliance TECHNICAL GROUP

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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: GARD04

Lab Code: CHEM Case No.: P4528 SAS No.: P4528 SDG No.: P4528

Instrument ID: MSVOA_N Calibration Date/Time: 10/28/2024 10:05

Lab File ID: VN084529.D Init. Calib. Date(s): 09/30/2024 09/30/2024

Heated Purge: (Y/N) N Init. Calib. Time(s): 12:25 14:48

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Ethyl Benzene	1.961	2.049		4.49	20
m/p-Xylenes	0.725	0.784		8.14	20
o-Xylene	0.686	0.751		9.48	20
Styrene	1.162	1.303		12.13	20
Bromoform	0.281	0.312	0.1	11.03	20
Isopropylbenzene	3.815	3.841		0.68	20
1,1,2,2-Tetrachloroethane	1.147	1.165	0.3	1.57	20
1,3-Dichlorobenzene	1.727	1.752		1.45	20
1,4-Dichlorobenzene	1.744	1.746		0.12	20
1,2-Dichlorobenzene	1.693	1.699		0.35	20
1,2-Dibromo-3-Chloropropane	0.237	0.222		-6.33	20
1,2,4-Trichlorobenzene	0.834	0.865		3.72	20
1,2,3-Trichlorobenzene	0.835	0.857		2.63	20
1,2-Dichloroethane-d4	0.741	0.721		-2.7	20
Dibromofluoromethane	0.330	0.356		7.88	20
Toluene-d8	1.213	1.245		2.64	20
4-Bromofluorobenzene	0.442	0.476		7.69	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\VN102824\
Data File : VN084529.D
Acq On : 28 Oct 2024 10:05
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 28 14:13:24 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.M
Quant Title : SW846 8260
QLast Update : Tue Oct 01 07:11:01 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 10/29/2024
Supervised By :Semsettin Yesilyurt 10/29/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.224	168	166557	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	279237	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	255910	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	127505	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	120134	48.647	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 97.300%			
35) Dibromofluoromethane	8.165	113	99545	54.074	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 108.140%			
50) Toluene-d8	10.565	98	347657	51.331	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 102.660%			
62) 4-Bromofluorobenzene	12.847	95	132896	53.860	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 107.720%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.124	85	86744	44.030	ug/l	94
3) Chloromethane	2.359	50	99520	44.241	ug/l	100
4) Vinyl Chloride	2.512	62	100469	46.108	ug/l	97
5) Bromomethane	2.948	94	62891	43.757	ug/l	98
6) Chloroethane	3.118	64	65082	41.705	ug/l	92
7) Trichlorofluoromethane	3.495	101	170700	50.308	ug/l	96
8) Diethyl Ether	3.959	74	60129	47.781	ug/l	100
9) 1,1,2-Trichlorotrifluo...	4.371	101	96921	49.851	ug/l	98
10) Methyl Iodide	4.589	142	125472	50.113	ug/l	95
11) Tert butyl alcohol	5.518	59	95192	233.770	ug/l	100
12) 1,1-Dichloroethene	4.342	96	92279	49.207	ug/l	95
13) Acrolein	4.177	56	100084	214.094	ug/l	99
14) Allyl chloride	5.024	41	143362	44.018	ug/l	98
15) Acrylonitrile	5.718	53	260578	253.406	ug/l	97
16) Acetone	4.424	43	256618	241.898	ug/l	99
17) Carbon Disulfide	4.712	76	249987	42.104	ug/l	99
18) Methyl Acetate	5.018	43	130262	56.337	ug/l	99
19) Methyl tert-butyl Ether	5.789	73	319640	50.500	ug/l	97
20) Methylene Chloride	5.277	84	110503	51.242	ug/l	88
21) trans-1,2-Dichloroethene	5.783	96	101035	51.425	ug/l	98
22) Diisopropyl ether	6.671	45	341716	50.724	ug/l	97
23) Vinyl Acetate	6.600	43	1218866	243.938	ug/l	98
24) 1,1-Dichloroethane	6.565	63	193799	51.442	ug/l	96
25) 2-Butanone	7.477	43	353909	244.937	ug/l	99
26) 2,2-Dichloropropane	7.489	77	173677	51.129	ug/l	98
27) cis-1,2-Dichloroethene	7.483	96	123148	51.870	ug/l	96
28) Bromochloromethane	7.812	49	74170	44.125	ug/l	94
29) Tetrahydrofuran	7.836	42	221155	248.023	ug/l	97
30) Chloroform	7.965	83	206104	52.667	ug/l	98
31) Cyclohexane	8.259	56	160173	43.789	ug/l	98
32) 1,1,1-Trichloroethane	8.165	97	181138	51.539	ug/l	99
36) 1,1-Dichloropropene	8.371	75	138130	51.657	ug/l	99
37) Ethyl Acetate	7.559	43	136243	49.664	ug/l	100
38) Carbon Tetrachloride	8.359	117	157140	53.573	ug/l	95
39) Methylcyclohexane	9.600	83	145094	48.754	ug/l	97
40) Benzene	8.600	78	442533	53.118	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102824\
Data File : VN084529.D
Acq On : 28 Oct 2024 10:05
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 28 14:13:24 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.M
Quant Title : SW846 8260
QLast Update : Tue Oct 01 07:11:01 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 10/29/2024
Supervised By :Semsettin Yesilyurt 10/29/2024

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.777	41	73419	49.298	ug/l		95
42) 1,2-Dichloroethane	8.671	62	147360	52.174	ug/l		100
43) Isopropyl Acetate	8.688	43	239287	44.533	ug/l		99
44) Trichloroethene	9.353	130	102839	52.851	ug/l		96
45) 1,2-Dichloropropane	9.618	63	108113	54.856	ug/l		100
46) Dibromomethane	9.706	93	78367	58.923	ug/l		98
47) Bromodichloromethane	9.888	83	162397	54.959	ug/l	#	97
48) Methyl methacrylate	9.677	41	109240	51.072	ug/l		99
49) 1,4-Dioxane	9.694	88	40112	1018.632	ug/l		96
51) 4-Methyl-2-Pentanone	10.441	43	701721	268.706	ug/l		99
52) Toluene	10.629	92	276685	54.461	ug/l		100
53) t-1,3-Dichloropropene	10.835	75	161941	53.765	ug/l		99
54) cis-1,3-Dichloropropene	10.312	75	176595	54.508	ug/l		96
55) 1,1,2-Trichloroethane	11.012	97	105513	57.934	ug/l		97
56) Ethyl methacrylate	10.871	69	164948	55.041	ug/l		95
57) 1,3-Dichloropropane	11.159	76	180439	55.445	ug/l		100
58) 2-Chloroethyl Vinyl ether	10.159	63	391410	281.550	ug/l		97
59) 2-Hexanone	11.194	43	521359	267.109	ug/l		99
60) Dibromochloromethane	11.359	129	123065	57.189	ug/l		99
61) 1,2-Dibromoethane	11.465	107	103496	54.689	ug/l		99
64) Tetrachloroethene	11.100	164	97380	54.633	ug/l		96
65) Chlorobenzene	11.888	112	295665	52.108	ug/l		96
66) 1,1,1,2-Tetrachloroethane	11.959	131	106403	54.443	ug/l		100
67) Ethyl Benzene	11.959	91	524379	52.257	ug/l		99
68) m/p-Xylenes	12.065	106	401441	108.151	ug/l		100
69) o-Xylene	12.394	106	192158	54.717	ug/l		100
70) Styrene	12.406	104	333454	56.058	ug/l		98
71) Bromoform	12.576	173	79927	55.548	ug/l	#	97
73) Isopropylbenzene	12.694	105	489769	50.337	ug/l		100
74) N-amyl acetate	12.488	43	200302	45.461	ug/l		97
75) 1,1,2,2-Tetrachloroethane	12.935	83	148591	50.789	ug/l		100
76) 1,2,3-Trichloropropane	12.988	75	134172m	51.544	ug/l		
77) Bromobenzene	12.976	156	119903	51.089	ug/l		95
78) n-propylbenzene	13.035	91	587897	52.151	ug/l		99
79) 2-Chlorotoluene	13.123	91	359954	50.040	ug/l		98
80) 1,3,5-Trimethylbenzene	13.170	105	425471	53.608	ug/l		99
81) trans-1,4-Dichloro-2-b...	12.735	75	58317	53.711	ug/l		92
82) 4-Chlorotoluene	13.218	91	367485	50.748	ug/l		98
83) tert-Butylbenzene	13.435	119	347018	49.193	ug/l		98
84) 1,2,4-Trimethylbenzene	13.476	105	427732	53.498	ug/l		99
85) sec-Butylbenzene	13.612	105	486834	51.718	ug/l		100
86) p-Isopropyltoluene	13.723	119	409248	52.576	ug/l		99
87) 1,3-Dichlorobenzene	13.729	146	223411	50.742	ug/l		99
88) 1,4-Dichlorobenzene	13.812	146	222616	50.068	ug/l		99
89) n-Butylbenzene	14.053	91	352954	50.006	ug/l		98
90) Hexachloroethane	14.329	117	76602	48.482	ug/l		100
91) 1,2-Dichlorobenzene	14.106	146	216615	50.175	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	14.717	75	28304	46.881	ug/l		99
93) 1,2,4-Trichlorobenzene	15.388	180	110241	51.843	ug/l		99
94) Hexachlorobutadiene	15.500	225	49903	47.058	ug/l		97
95) Naphthalene	15.641	128	334829	47.496	ug/l		99
96) 1,2,3-Trichlorobenzene	15.835	180	109325	51.361	ug/l		98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102824\
Data File : VN084529.D
Acq On : 28 Oct 2024 10:05
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 28 14:13:24 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.M
Quant Title : SW846 8260
QLast Update : Tue Oct 01 07:11:01 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 10/29/2024
Supervised By :Semsettin Yesilyurt 10/29/2024

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

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

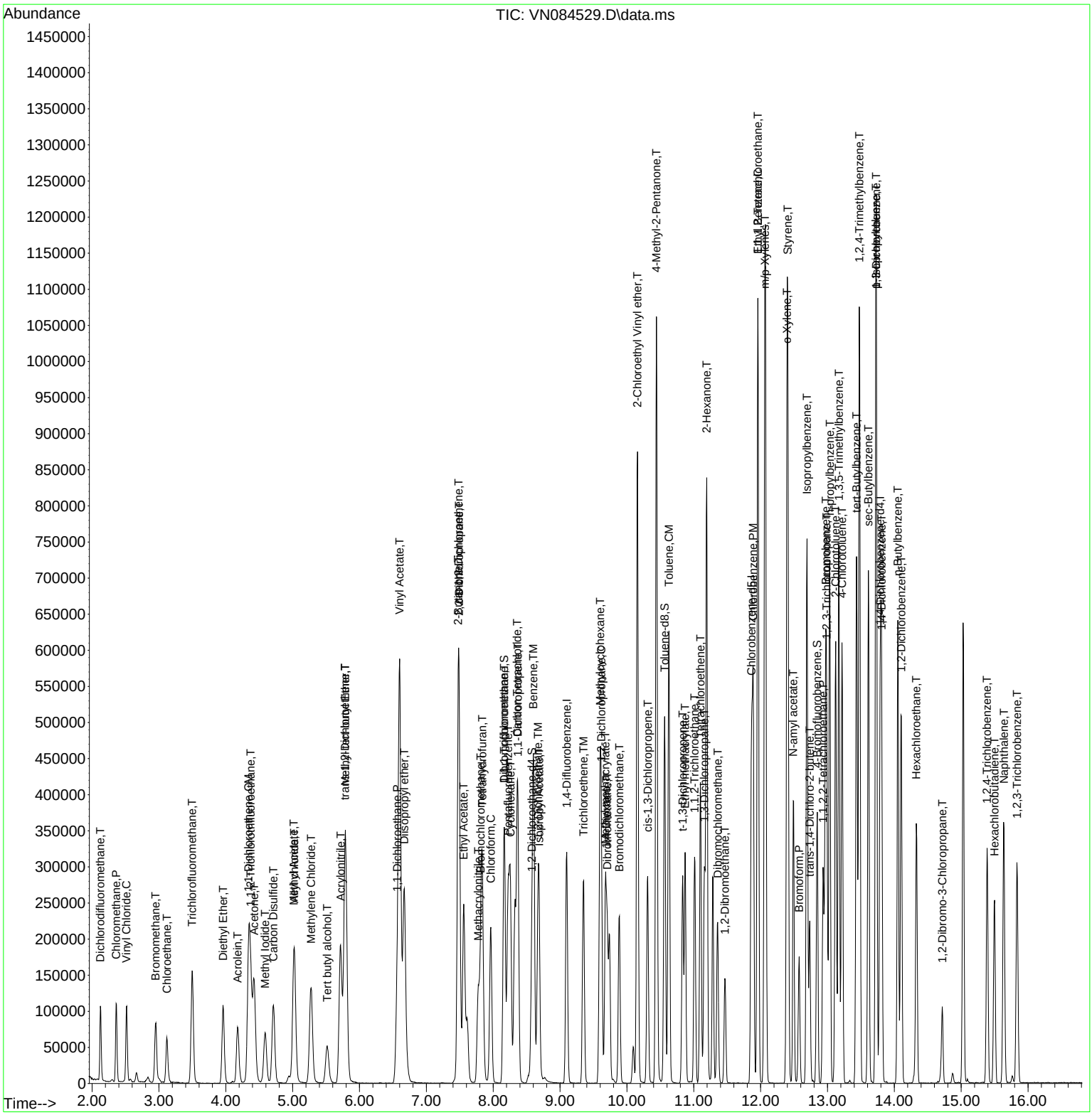
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102824\
Data File : VN084529.D
Acq On : 28 Oct 2024 10:05
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 28 14:13:24 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.M
Quant Title : SW846 8260
QLast Update : Tue Oct 01 07:11:01 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 10/29/2024
Supervised By :Semsettin Yesilyurt 10/29/2024



Sample Results: **VN084529.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102824\
Data File : VN084529.D
Acq On : 28 Oct 2024 10:05
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC050

Quant Time: Oct 28 14:13:24 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.M
Quant Title : SW846 8260
QLast Update : Tue Oct 01 07:11:01 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	95	0.00
2	T	Dichlorodifluoromethane	0.591	0.521	11.8	81	0.00
3	P	Chloromethane	0.675	0.598	11.4	85	0.00
4	C	Vinyl Chloride	0.654	0.603	7.8#	86	0.00
5	T	Bromomethane	0.431	0.378	12.3	83	0.00
6	T	Chloroethane	0.468	0.391	16.5	89	0.00
7	T	Trichlorofluoromethane	1.019	1.025	-0.6	92	0.00
8	T	Diethyl Ether	0.378	0.361	4.5	88	0.00
9	T	1,1,2-Trichlorotrifluoroeth	0.584	0.582	0.3	94	0.00
10	T	Methyl Iodide	0.752	0.753	-0.1	89	0.00
11	T	Tert butyl alcohol	0.122	0.114	6.6	88	0.00
12	CM	1,1-Dichloroethene	0.563	0.554	1.6#	90	0.00
13	T	Acrolein	0.140	0.120	14.3	80	0.00
14	T	Allyl chloride	0.978	0.861	12.0	82	0.00
15	T	Acrylonitrile	0.309	0.313	-1.3	94	0.00
16	T	Acetone	0.318	0.308	3.1	86	0.00
17	T	Carbon Disulfide	1.782	1.501	15.8	83	0.00
18	T	Methyl Acetate	0.694	0.782	-12.7	105	0.00
19	T	Methyl tert-butyl Ether	1.900	1.919	-1.0	90	0.00
20	T	Methylene Chloride	0.647	0.663	-2.5	96	0.00
21	T	trans-1,2-Dichloroethene	0.590	0.607	-2.9	93	0.00
22	T	Diisopropyl ether	2.022	2.052	-1.5	90	0.00
23	T	Vinyl Acetate	1.500	1.464	2.4	84	0.00
24	P	1,1-Dichloroethane	1.131	1.164	-2.9	93	0.00
25	T	2-Butanone	0.434	0.425	2.1	89	0.00
26	T	2,2-Dichloropropane	1.020	1.043	-2.3	92	0.00
27	T	cis-1,2-Dichloroethene	0.713	0.739	-3.6	95	0.00
28	T	Bromochloromethane	0.505	0.445	11.9	86	0.00
29	T	Tetrahydrofuran	0.268	0.266	0.7	89	0.00
30	C	Chloroform	1.175	1.237	-5.3#	98	0.00
31	T	Cyclohexane	1.098	0.962	12.4	86	0.00
32	T	1,1,1-Trichloroethane	1.055	1.088	-3.1	94	0.00
33	S	1,2-Dichloroethane-d4	0.741	0.721	2.7	93	0.00
34	I	1,4-Difluorobenzene	1.000	1.000	0.0	92	0.00
35	S	Dibromofluoromethane	0.330	0.356	-7.9	101	0.00
36	T	1,1-Dichloropropene	0.479	0.495	-3.3	89	0.00
37	T	Ethyl Acetate	0.491	0.488	0.6	89	0.00
38	T	Carbon Tetrachloride	0.525	0.563	-7.2	94	0.00
39	T	Methylcyclohexane	0.533	0.520	2.4	82	0.00
40	TM	Benzene	1.492	1.585	-6.2	94	0.00
41	T	Methacrylonitrile	0.267	0.263	1.5	84	0.00
42	TM	1,2-Dichloroethane	0.506	0.528	-4.3	92	0.00
43	T	Isopropyl Acetate	0.962	0.857	10.9	88	0.00
44	TM	Trichloroethene	0.348	0.368	-5.7	93	0.00
45	C	1,2-Dichloropropane	0.353	0.387	-9.6#	95	0.00
46	T	Dibromomethane	0.238	0.281	-18.1	99	0.00
47	T	Bromodichloromethane	0.529	0.582	-10.0	96	0.00
48	T	Methyl methacrylate	0.383	0.391	-2.1	86	0.00

Sample Results: **VN084529.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102824\
Data File : VN084529.D
Acq On : 28 Oct 2024 10:05
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC050

Quant Time: Oct 28 14:13:24 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.M
Quant Title : SW846 8260
QLast Update : Tue Oct 01 07:11:01 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	0.007	0.007	0.0	90	0.00
50	S	Toluene-d8	1.213	1.245	-2.6	92	0.00
51	T	4-Methyl-2-Pentanone	0.468	0.503	-7.5	91	0.00
52	CM	Toluene	0.910	0.991	-8.9#	94	0.00
53	T	t-1,3-Dichloropropene	0.539	0.580	-7.6	90	0.00
54	T	cis-1,3-Dichloropropene	0.580	0.632	-9.0	91	0.00
55	T	1,1,2-Trichloroethane	0.326	0.378	-16.0	99	0.00
56	T	Ethyl methacrylate	0.537	0.591	-10.1	90	0.00
57	T	1,3-Dichloropropane	0.583	0.646	-10.8	96	0.00
58	T	2-Chloroethyl Vinyl ether	0.249	0.280	-12.4	92	0.00
59	T	2-Hexanone	0.349	0.373	-6.9	89	0.00
60	T	Dibromochloromethane	0.385	0.441	-14.5	97	0.00
61	T	1,2-Dibromoethane	0.339	0.371	-9.4	95	0.00
62	S	4-Bromofluorobenzene	0.442	0.476	-7.7	97	0.00
63	I	Chlorobenzene-d5	1.000	1.000	0.0	97	0.00
64	T	Tetrachloroethene	0.348	0.381	-9.5	103	0.00
65	PM	Chlorobenzene	1.109	1.155	-4.1	95	0.00
66	T	1,1,1,2-Tetrachloroethane	0.382	0.416	-8.9	99	0.00
67	C	Ethyl Benzene	1.961	2.049	-4.5#	93	0.00
68	T	m/p-Xylenes	0.725	0.784	-8.1	94	0.00
69	T	o-Xylene	0.686	0.751	-9.5	94	0.00
70	T	Styrene	1.162	1.303	-12.1	96	0.00
71	P	Bromoform	0.281	0.312	-11.0	96	0.00
72	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	100	0.00
73	T	Isopropylbenzene	3.815	3.841	-0.7	93	0.00
74	T	N-amyl acetate	1.728	1.571	9.1	84	0.00
75	P	1,1,2,2-Tetrachloroethane	1.147	1.165	-1.6	98	0.00
76	T	1,2,3-Trichloropropane	1.021	1.052	-3.0	93	0.00
77	T	Bromobenzene	0.920	0.940	-2.2	99	0.00
78	T	n-propylbenzene	4.421	4.611	-4.3	94	0.00
79	T	2-Chlorotoluene	2.821	2.823	-0.1	94	0.00
80	T	1,3,5-Trimethylbenzene	3.112	3.337	-7.2	95	0.00
81	T	trans-1,4-Dichloro-2-butene	0.426	0.457	-7.3	101	0.00
82	T	4-Chlorotoluene	2.840	2.882	-1.5	95	0.00
83	T	tert-Butylbenzene	2.766	2.722	1.6	90	0.00
84	T	1,2,4-Trimethylbenzene	3.135	3.355	-7.0	95	0.00
85	T	sec-Butylbenzene	3.691	3.818	-3.4	92	0.00
86	T	p-Isopropyltoluene	3.052	3.210	-5.2	91	0.00
87	T	1,3-Dichlorobenzene	1.727	1.752	-1.4	98	0.00
88	T	1,4-Dichlorobenzene	1.744	1.746	-0.1	98	0.00
89	T	n-Butylbenzene	2.768	2.768	0.0	89	0.00
90	T	Hexachloroethane	0.620	0.601	3.1	94	0.00
91	T	1,2-Dichlorobenzene	1.693	1.699	-0.4	99	0.00
92	T	1,2-Dibromo-3-Chloropropane	0.237	0.222	6.3	93	0.00
93	T	1,2,4-Trichlorobenzene	0.834	0.865	-3.7	93	0.00
94	T	Hexachlorobutadiene	0.416	0.391	6.0	98	0.00
95	T	Naphthalene	2.764	2.626	5.0	85	0.00

Sample Results: **VN084529.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102824\
Data File : VN084529.D
Acq On : 28 Oct 2024 10:05
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC050

Quant Time: Oct 28 14:13:24 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.M
Quant Title : SW846 8260
QLast Update : Tue Oct 01 07:11:01 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	0.835	0.857	-2.6	95	0.00

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

Sample Results: **VN084529.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102824\
Data File : VN084529.D
Acq On : 28 Oct 2024 10:05
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC050

Quant Time: Oct 28 14:13:24 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.M
Quant Title : SW846 8260
QLast Update : Tue Oct 01 07:11:01 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	95	0.00
2	T	Dichlorodifluoromethane	50.000	44.030	11.9	81	0.00
3	P	Chloromethane	50.000	44.241	11.5	85	0.00
4	C	Vinyl Chloride	50.000	46.108	7.8#	86	0.00
5	T	Bromomethane	50.000	43.757	12.5	83	0.00
6	T	Chloroethane	50.000	41.705	16.6	89	0.00
7	T	Trichlorofluoromethane	50.000	50.308	-0.6	92	0.00
8	T	Diethyl Ether	50.000	47.781	4.4	88	0.00
9	T	1,1,2-Trichlorotrifluoroeth	50.000	49.851	0.3	94	0.00
10	T	Methyl Iodide	50.000	50.113	-0.2	89	0.00
11	T	Tert butyl alcohol	250.000	233.770	6.5	88	0.00
12	CM	1,1-Dichloroethene	50.000	49.207	1.6#	90	0.00
13	T	Acrolein	250.000	214.094	14.4	80	0.00
14	T	Allyl chloride	50.000	44.018	12.0	82	0.00
15	T	Acrylonitrile	250.000	253.406	-1.4	94	0.00
16	T	Acetone	250.000	241.898	3.2	86	0.00
17	T	Carbon Disulfide	50.000	42.104	15.8	83	0.00
18	T	Methyl Acetate	50.000	56.337	-12.7	105	0.00
19	T	Methyl tert-butyl Ether	50.000	50.500	-1.0	90	0.00
20	T	Methylene Chloride	50.000	51.242	-2.5	96	0.00
21	T	trans-1,2-Dichloroethene	50.000	51.425	-2.8	93	0.00
22	T	Diisopropyl ether	50.000	50.724	-1.4	90	0.00
23	T	Vinyl Acetate	250.000	243.938	2.4	84	0.00
24	P	1,1-Dichloroethane	50.000	51.442	-2.9	93	0.00
25	T	2-Butanone	250.000	244.937	2.0	89	0.00
26	T	2,2-Dichloropropane	50.000	51.129	-2.3	92	0.00
27	T	cis-1,2-Dichloroethene	50.000	51.870	-3.7	95	0.00
28	T	Bromochloromethane	50.000	44.125	11.8	86	0.00
29	T	Tetrahydrofuran	250.000	248.023	0.8	89	0.00
30	C	Chloroform	50.000	52.667	-5.3#	98	0.00
31	T	Cyclohexane	50.000	43.789	12.4	86	0.00
32	T	1,1,1-Trichloroethane	50.000	51.539	-3.1	94	0.00
33	S	1,2-Dichloroethane-d4	50.000	48.647	2.7	93	0.00
34	I	1,4-Difluorobenzene	50.000	50.000	0.0	92	0.00
35	S	Dibromofluoromethane	50.000	54.074	-8.1	101	0.00
36	T	1,1-Dichloropropene	50.000	51.657	-3.3	89	0.00
37	T	Ethyl Acetate	50.000	49.664	0.7	89	0.00
38	T	Carbon Tetrachloride	50.000	53.573	-7.1	94	0.00
39	T	Methylcyclohexane	50.000	48.754	2.5	82	0.00
40	TM	Benzene	50.000	53.118	-6.2	94	0.00
41	T	Methacrylonitrile	50.000	49.298	1.4	84	0.00
42	TM	1,2-Dichloroethane	50.000	52.174	-4.3	92	0.00
43	T	Isopropyl Acetate	50.000	44.533	10.9	88	0.00
44	TM	Trichloroethene	50.000	52.851	-5.7	93	0.00
45	C	1,2-Dichloropropane	50.000	54.856	-9.7#	95	0.00
46	T	Dibromomethane	50.000	58.923	-17.8	99	0.00
47	T	Bromodichloromethane	50.000	54.959	-9.9	96	0.00
48	T	Methyl methacrylate	50.000	51.072	-2.1	86	0.00

Sample Results: **VN084529.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102824\
Data File : VN084529.D
Acq On : 28 Oct 2024 10:05
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC050

Quant Time: Oct 28 14:13:24 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.M
Quant Title : SW846 8260
QLast Update : Tue Oct 01 07:11:01 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	1018.632	-1.9	90	0.00
50	S	Toluene-d8	50.000	51.331	-2.7	92	0.00
51	T	4-Methyl-2-Pentanone	250.000	268.706	-7.5	91	0.00
52	CM	Toluene	50.000	54.461	-8.9#	94	0.00
53	T	t-1,3-Dichloropropene	50.000	53.765	-7.5	90	0.00
54	T	cis-1,3-Dichloropropene	50.000	54.508	-9.0	91	0.00
55	T	1,1,2-Trichloroethane	50.000	57.934	-15.9	99	0.00
56	T	Ethyl methacrylate	50.000	55.041	-10.1	90	0.00
57	T	1,3-Dichloropropane	50.000	55.445	-10.9	96	0.00
58	T	2-Chloroethyl Vinyl ether	250.000	281.550	-12.6	92	0.00
59	T	2-Hexanone	250.000	267.109	-6.8	89	0.00
60	T	Dibromochloromethane	50.000	57.189	-14.4	97	0.00
61	T	1,2-Dibromoethane	50.000	54.689	-9.4	95	0.00
62	S	4-Bromofluorobenzene	50.000	53.860	-7.7	97	0.00
63	I	Chlorobenzene-d5	50.000	50.000	0.0	97	0.00
64	T	Tetrachloroethene	50.000	54.633	-9.3	103	0.00
65	PM	Chlorobenzene	50.000	52.108	-4.2	95	0.00
66	T	1,1,1,2-Tetrachloroethane	50.000	54.443	-8.9	99	0.00
67	C	Ethyl Benzene	50.000	52.257	-4.5#	93	0.00
68	T	m/p-Xylenes	100.000	108.151	-8.2	94	0.00
69	T	o-Xylene	50.000	54.717	-9.4	94	0.00
70	T	Styrene	50.000	56.058	-12.1	96	0.00
71	P	Bromoform	50.000	55.548	-11.1	96	0.00
72	I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	100	0.00
73	T	Isopropylbenzene	50.000	50.337	-0.7	93	0.00
74	T	N-amyl acetate	50.000	45.461	9.1	84	0.00
75	P	1,1,2,2-Tetrachloroethane	50.000	50.789	-1.6	98	0.00
76	T	1,2,3-Trichloropropane	50.000	51.544	-3.1	93	0.00
77	T	Bromobenzene	50.000	51.089	-2.2	99	0.00
78	T	n-propylbenzene	50.000	52.151	-4.3	94	0.00
79	T	2-Chlorotoluene	50.000	50.040	-0.1	94	0.00
80	T	1,3,5-Trimethylbenzene	50.000	53.608	-7.2	95	0.00
81	T	trans-1,4-Dichloro-2-butene	50.000	53.711	-7.4	101	0.00
82	T	4-Chlorotoluene	50.000	50.748	-1.5	95	0.00
83	T	tert-Butylbenzene	50.000	49.193	1.6	90	0.00
84	T	1,2,4-Trimethylbenzene	50.000	53.498	-7.0	95	0.00
85	T	sec-Butylbenzene	50.000	51.718	-3.4	92	0.00
86	T	p-Isopropyltoluene	50.000	52.576	-5.2	91	0.00
87	T	1,3-Dichlorobenzene	50.000	50.742	-1.5	98	0.00
88	T	1,4-Dichlorobenzene	50.000	50.068	-0.1	98	0.00
89	T	n-Butylbenzene	50.000	50.006	-0.0	89	0.00
90	T	Hexachloroethane	50.000	48.482	3.0	94	0.00
91	T	1,2-Dichlorobenzene	50.000	50.175	-0.3	99	0.00
92	T	1,2-Dibromo-3-Chloropropane	50.000	46.881	6.2	93	0.00
93	T	1,2,4-Trichlorobenzene	50.000	51.843	-3.7	93	0.00
94	T	Hexachlorobutadiene	50.000	47.058	5.9	98	0.00
95	T	Naphthalene	50.000	47.496	5.0	85	0.00

Sample Results: **VN084529.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102824\
Data File : VN084529.D
Acq On : 28 Oct 2024 10:05
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC050

Quant Time: Oct 28 14:13:24 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.M
Quant Title : SW846 8260
QLast Update : Tue Oct 01 07:11:01 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	51.361	-2.7	95	0.00

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

QC SAMPLE DATA

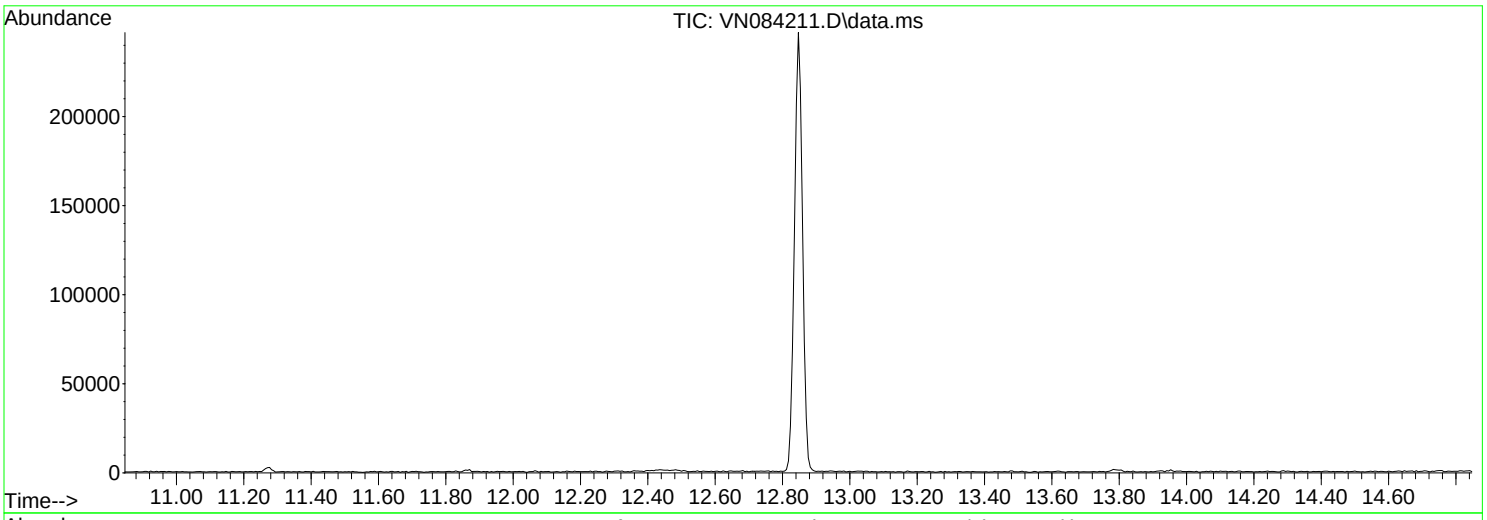
Sample Results: **VN084211.D**

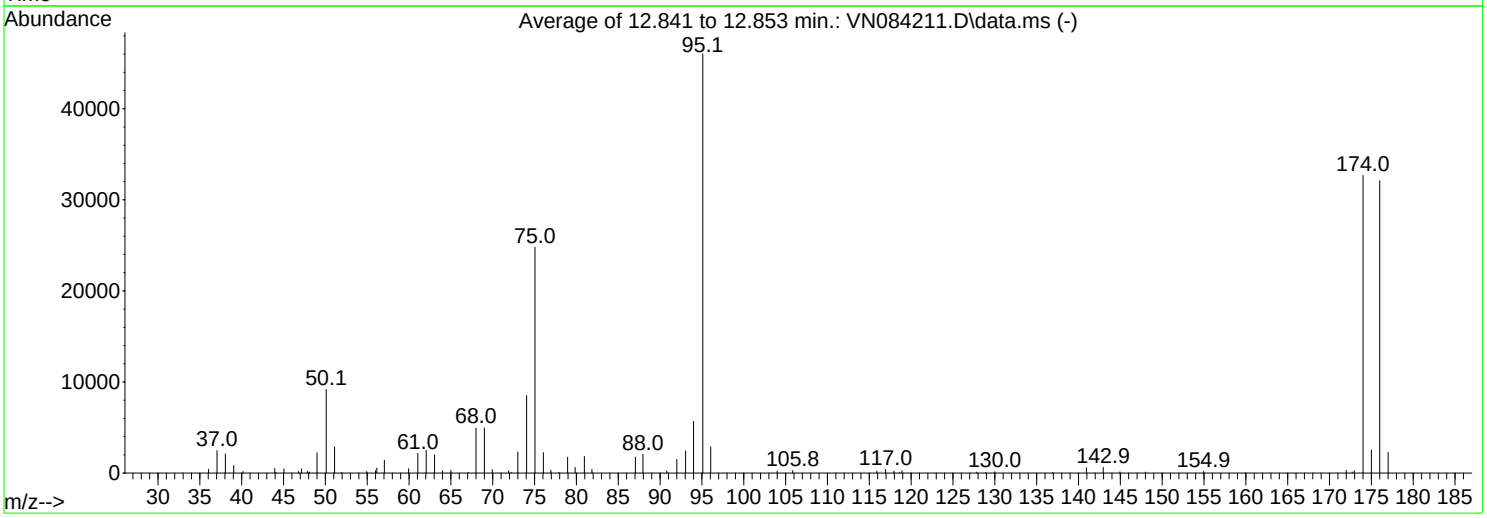
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN093024\
Data File : VN084211.D
Acq On : 30 Sep 2024 09:24
Operator : JC\MD
Sample : BFB
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.M
Title : SW846 8260
Last Update : Tue Oct 01 07:11:01 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	19.9	9177	PASS
75	95	30	60	53.9	24795	PASS
95	95	100	100	100.0	46040	PASS
96	95	5	9	6.3	2879	PASS
173	174	0.00	2	0.8	259	PASS
174	95	50	100	71.0	32685	PASS
175	174	5	9	7.8	2541	PASS
176	174	95	101	98.2	32104	PASS
177	176	5	9	7.0	2260	PASS

Average of 12.841 to 12.853 min.: VN084211.D\data.ms
BFB
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.05	419	48.10	111	62.05	2483	74.05	8516
37.05	2481	49.00	2237	63.05	2007	75.05	24795
38.05	2101	50.10	9177	64.00	258	76.05	2255
39.05	836	51.10	2891	65.00	322	76.95	323
40.15	179	51.90	55	67.10	55	77.90	67
43.95	503	54.95	179	68.00	4945	78.95	1743
44.10	59	56.00	274	69.00	4971	79.85	625
45.05	462	56.15	545	69.95	382	80.95	1822
46.80	174	57.05	1406	71.90	264	81.85	418
47.15	455	59.95	485	72.20	67	87.05	1750
47.85	183	61.05	2172	73.00	2306	87.95	2078

Instrument :
MSVOA_N
ClientSampleId :
BFB

Average of 12.841 to 12.853 min.: VN084211.D\data.ms
BFB
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
90.80	219	118.60	60	172.00	305		
92.00	1521	118.90	261	172.70	115		
93.05	2424	127.85	111	172.95	259		
94.00	5677	128.90	54	174.00	32685		
95.10	46040	130.00	156	175.00	2541		
96.05	2879	136.90	63	176.00	32104		
104.00	245	140.95	584	177.00	2260		
105.85	277	142.95	633				
115.90	223	144.95	142				
116.95	410	148.00	113				
117.95	228	154.95	185				

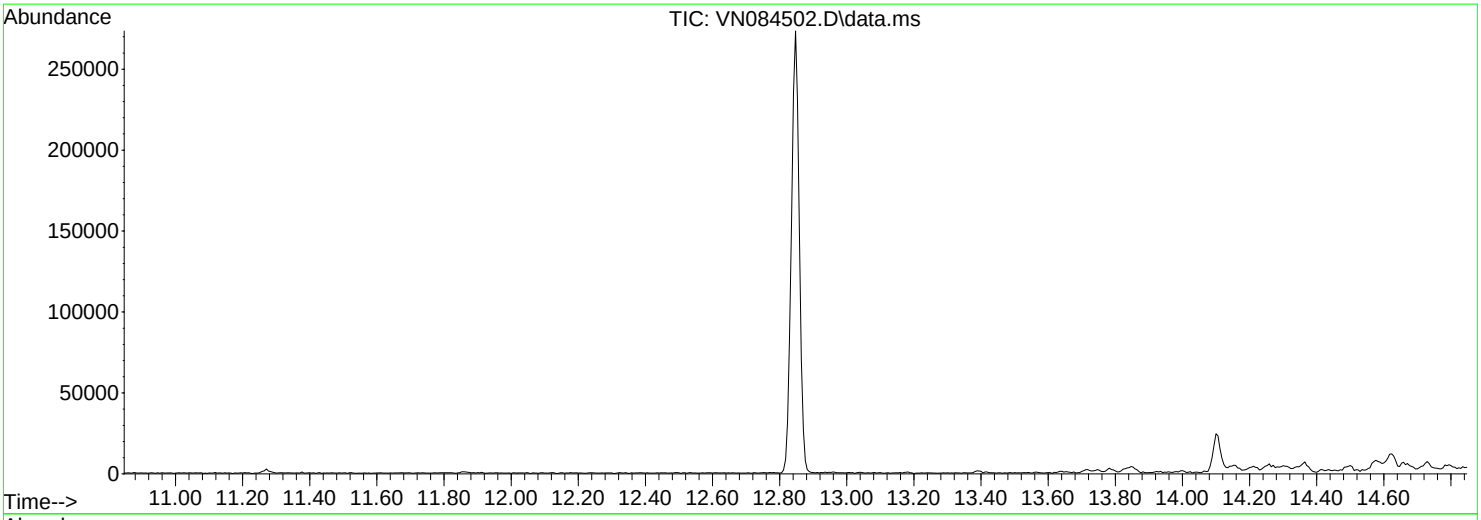
Sample Results: **VN084502.D**

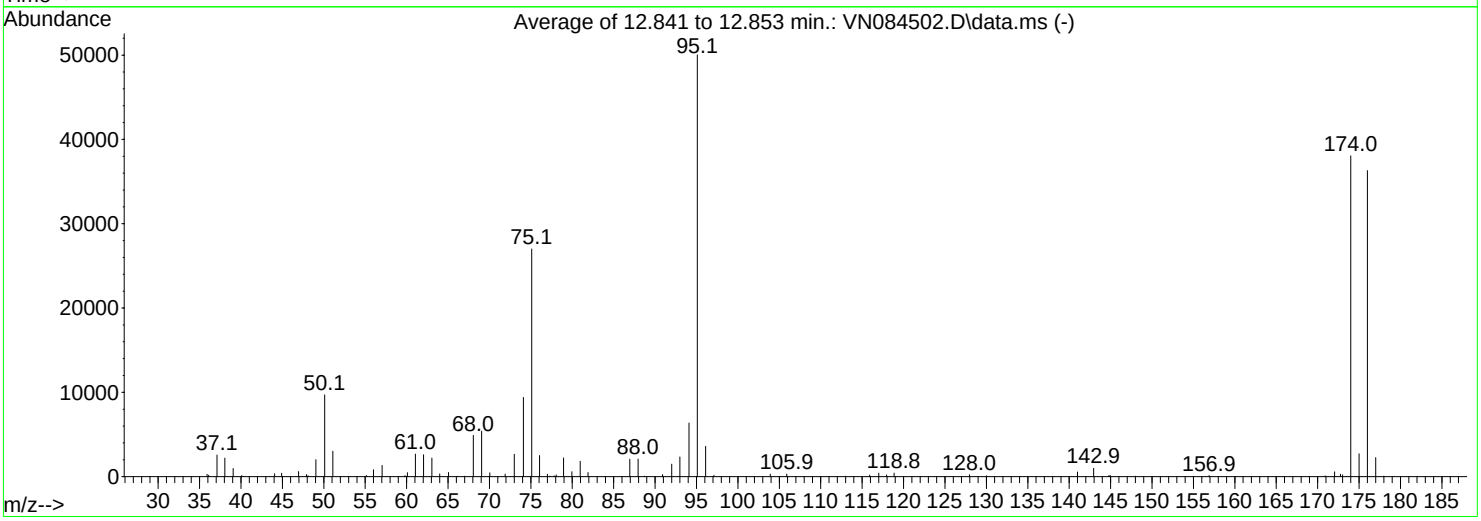
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102524\
Data File : VN084502.D
Acq On : 25 Oct 2024 08:21
Operator : JC\MD
Sample : BFB
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.M
Title : SW846 8260
Last Update : Tue Oct 01 07:11:01 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	19.4	9707	PASS
75	95	30	60	54.0	27013	PASS
95	95	100	100	100.0	50032	PASS
96	95	5	9	7.2	3591	PASS
173	174	0.00	2	0.7	282	PASS
174	95	50	100	76.0	38048	PASS
175	174	5	9	7.1	2716	PASS
176	174	95	101	95.4	36315	PASS
177	176	5	9	6.2	2254	PASS

Average of 12.841 to 12.853 min.: VN084502.D\data.ms
BFB
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
35.90	294	49.05	2007	64.00	332	76.05	250
36.10	164	50.10	9707	65.05	491	77.00	28
37.10	2565	51.10	3013	66.10	56	77.30	6
38.05	2205	55.15	142	67.00	56	77.80	9
39.05	964	56.00	826	68.05	4890	78.05	207
40.10	143	57.05	1321	69.05	5382	78.95	2215
44.05	345	59.80	128	70.05	462	79.95	596
44.90	395	60.10	473	71.90	311	80.95	1825
46.95	600	61.05	2683	73.00	2658	81.90	489
47.90	241	62.05	2607	74.10	9393	86.95	2073
48.10	110	63.05	2197	75.10	27013	87.95	2085

Instrument :
MSVOA_N
ClientSampleId :
BFB

Average of 12.841 to 12.853 min.: VN084502.D\data.ms
BFB
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
88.70	61	115.90	187	156.90	134		
90.90	252	117.00	415	170.90	93		
92.00	1476	117.95	206	172.05	569		
93.00	2335	118.85	420	172.75	282		
94.10	6368	127.95	234	173.00	213		
95.10	50032	130.00	105	174.00	38048		
96.10	3591	141.00	543	175.00	2716		
97.10	161	142.95	993	176.00	36315		
103.90	297	144.80	144	177.00	2254		
105.90	305	144.95	136	178.00	52		
113.00	57	148.00	58				

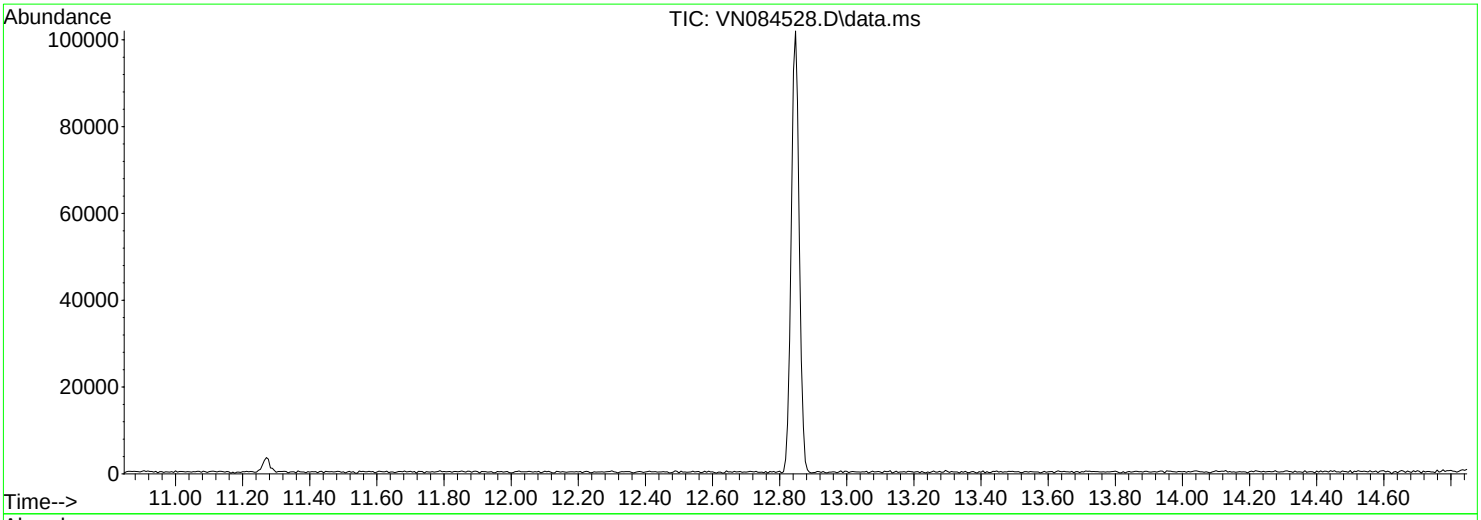
Sample Results: **VN084528.D**

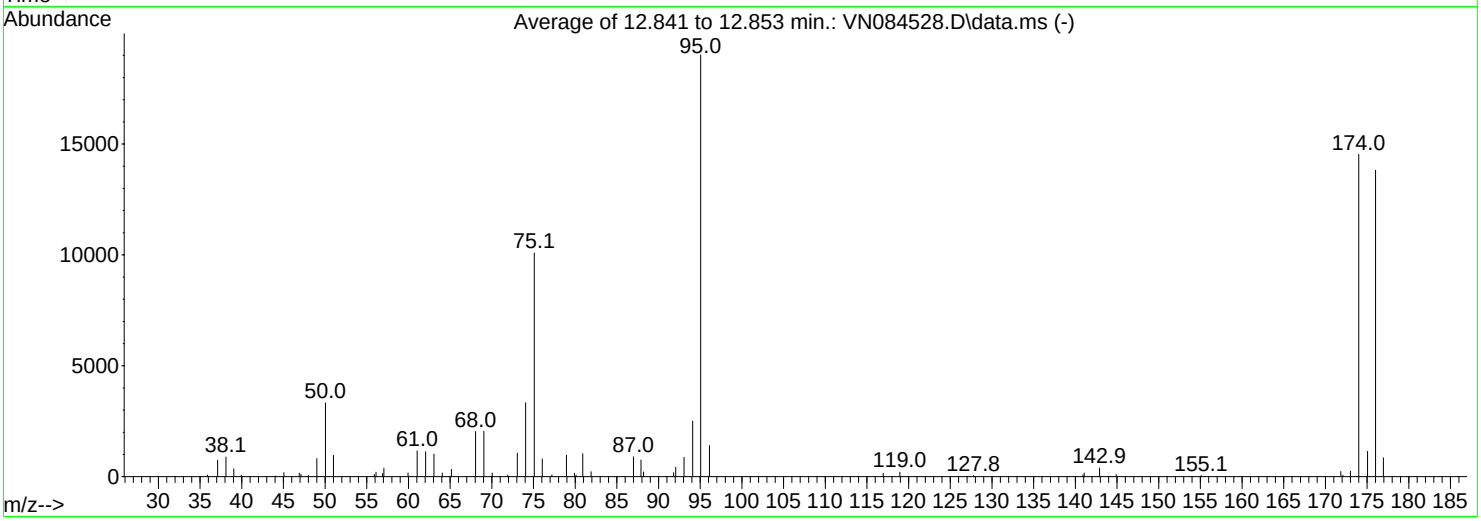
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102824\
Data File : VN084528.D
Acq On : 28 Oct 2024 09:18
Operator : JC\MD
Sample : BFB
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.M
Title : SW846 8260
Last Update : Tue Oct 01 07:11:01 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	17.5	3329	PASS
75	95	30	60	53.0	10092	PASS
95	95	100	100	100.0	19024	PASS
96	95	5	9	7.4	1405	PASS
173	174	0.00	2	1.7	248	PASS
174	95	50	100	76.4	14532	PASS
175	174	5	9	7.9	1143	PASS
176	174	95	101	95.1	13817	PASS
177	176	5	9	6.2	850	PASS

Average of 12.841 to 12.853 min.: VN084528.D\data.ms
BFB
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
35.90	75	50.05	3329	65.15	322	79.90	15
37.10	742	51.00	970	68.05	2038	80.10	7
38.10	886	55.90	98	69.05	2049	80.90	103
39.05	357	56.10	204	70.05	169	81.90	22
39.95	63	56.90	141	71.90	65	87.00	896
44.10	30	57.05	382	73.05	1062	87.90	750
45.05	178	59.95	169	74.05	3335	88.20	213
46.90	162	61.05	1160	75.10	10092	91.80	184
47.10	106	62.05	1123	76.05	799	92.05	419
48.00	59	63.05	1021	77.20	76	93.05	871
49.00	813	64.05	167	78.95	970	94.10	2501

Instrument :
MSVOA_N
ClientSampleId :
BFB

Average of 12.841 to 12.853 min.: VN084528.D\data.ms
BFB
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
95.05	19024	172.10	68				
96.10	1405	173.00	248				
116.95	152	174.00	14532				
118.95	198	175.05	1143				
127.80	52	176.00	13817				
140.90	77	176.95	850				
141.05	163						
142.90	389						
144.90	91						
155.10	52						
171.85	230						

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

Report of Analysis

Client:	Garden State Laboratories, Inc.	Date Collected:	
Project:	Waste Water 2024	Date Received:	
Client Sample ID:	VN1025WBL02	SDG No.:	P4528
Lab Sample ID:	VN1025WBL02	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
VN084508.D	1		10/25/24 11:51	VN102524

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

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

Report of Analysis

Client:	Garden State Laboratories, Inc.	Date Collected:	
Project:	Waste Water 2024	Date Received:	
Client Sample ID:	VN1025WBL02	SDG No.:	P4528
Lab Sample ID:	VN1025WBL02	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
VN084508.D	1		10/25/24 11:51	VN102524

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	52.2		74 - 125	104%	SPK: 50
1868-53-7	Dibromofluoromethane	51.4		75 - 124	103%	SPK: 50
2037-26-5	Toluene-d8	46.5		86 - 113	93%	SPK: 50
460-00-4	4-Bromofluorobenzene	43.0		77 - 121	86%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	159000	8.224			
540-36-3	1,4-Difluorobenzene	289000	9.1			
3114-55-4	Chlorobenzene-d5	249000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	103000	13.788			

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

Report of Analysis

Client:	Garden State Laboratories, Inc.	Date Collected:	
Project:	Waste Water 2024	Date Received:	
Client Sample ID:	VN1025WBL02	SDG No.:	P4528
Lab Sample ID:	VN1025WBL02	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
VN084508.D	1		10/25/24 11:51	VN102524

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\VN102524\
Data File : VN084508.D
Acq On : 25 Oct 2024 11:51
Operator : JC\MD
Sample : VN1025WBL02
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN1025WBL02

Quant Time: Oct 25 23:30:15 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.M
Quant Title : SW846 8260
QLast Update : Tue Oct 01 07:11:01 2024
Response via : Initial Calibration

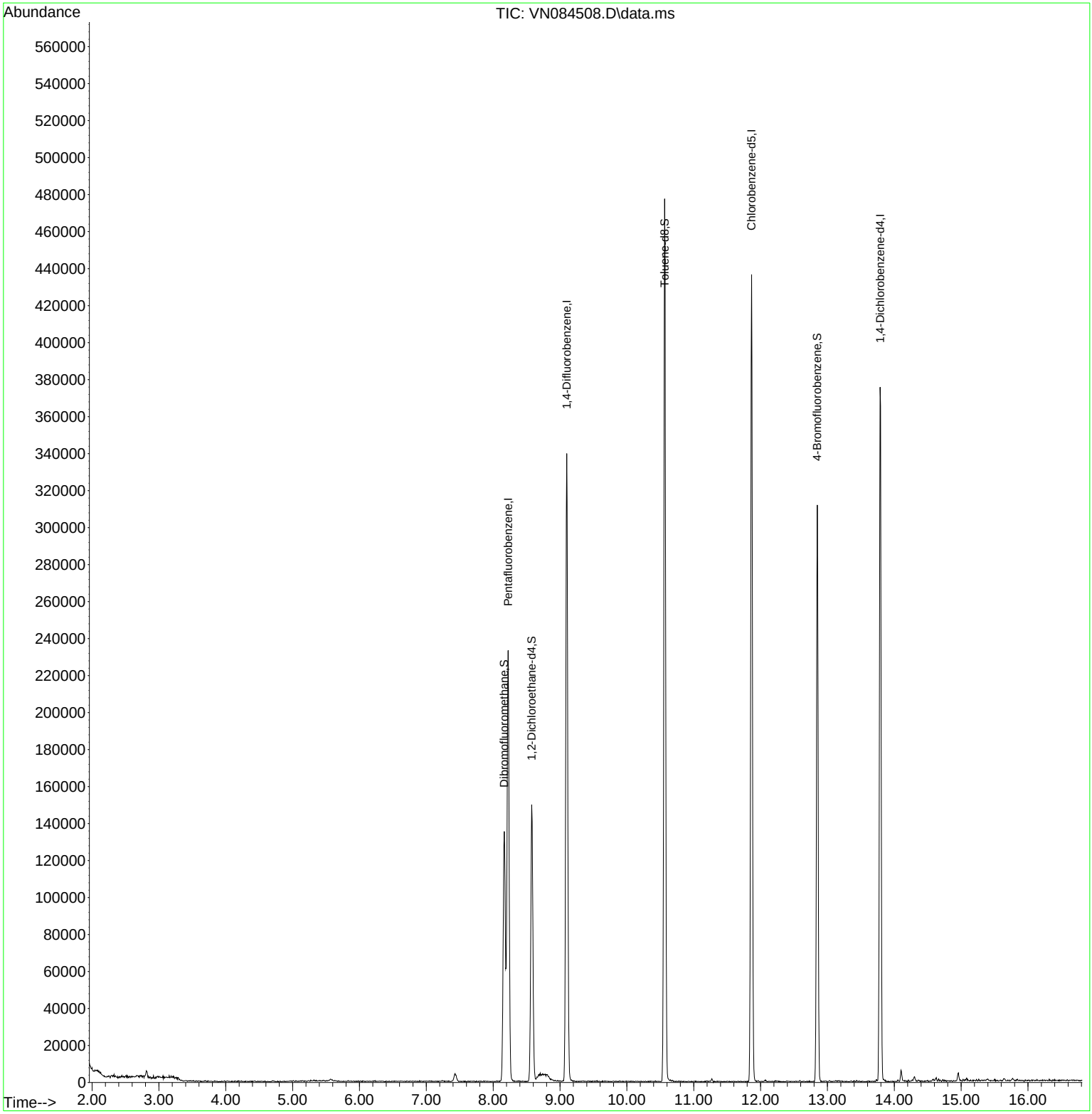
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.224	168	159284	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	289382	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	249149	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	102517	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	123323	52.218	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 104.440%			
35) Dibromofluoromethane	8.165	113	98022	51.380	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 102.760%			
50) Toluene-d8	10.565	98	326081	46.457	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 92.920%			
62) 4-Bromofluorobenzene	12.847	95	110012	43.023	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 86.040%			
Target Compounds						Qvalue

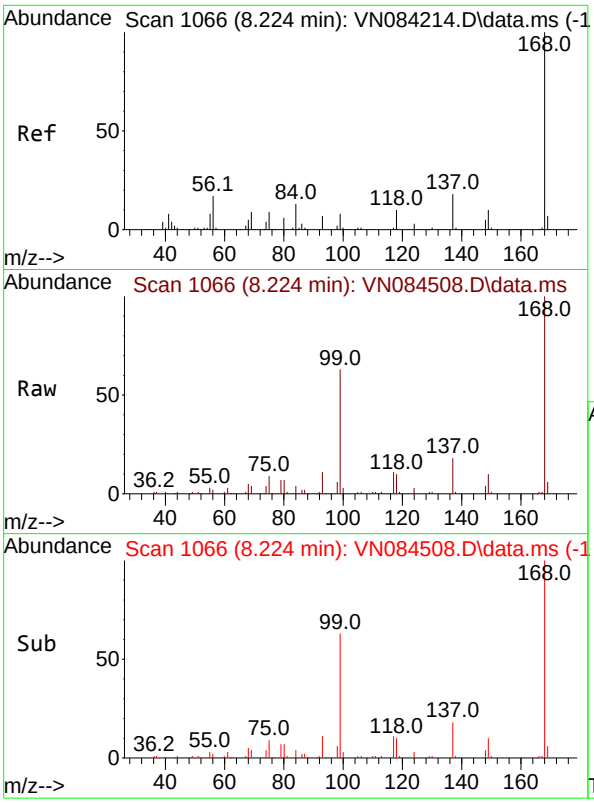
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102524\
Data File : VN084508.D
Acq On : 25 Oct 2024 11:51
Operator : JC\MD
Sample : VN1025WBL02
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN1025WBL02

Quant Time: Oct 25 23:30:15 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.M
Quant Title : SW846 8260
QLast Update : Tue Oct 01 07:11:01 2024
Response via : Initial Calibration



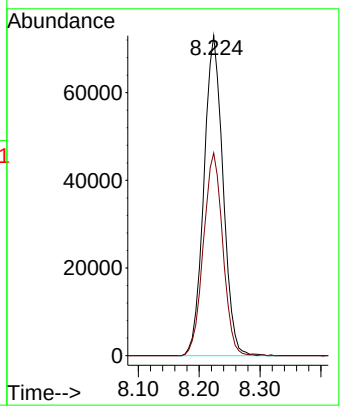


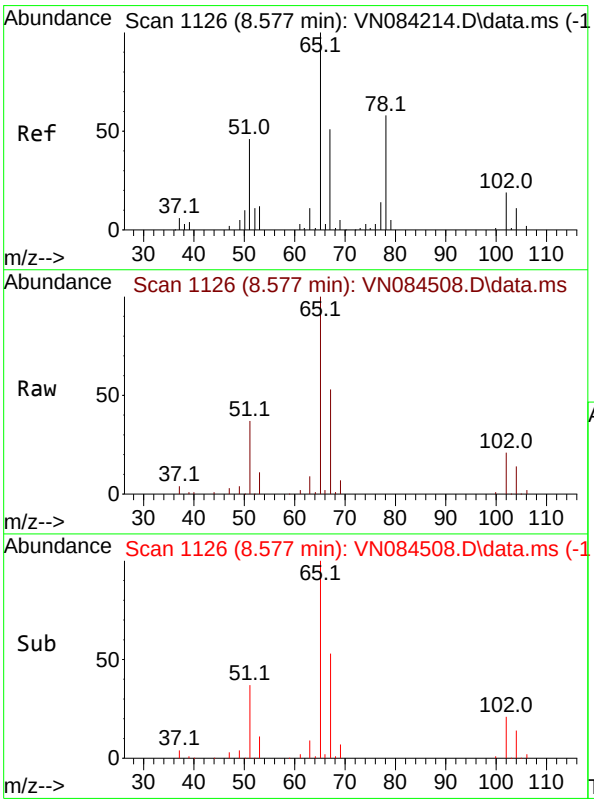
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN084508.D
Acq: 25 Oct 2024 11:51

Instrument :
MSVOA_N
ClientSampleId :
VN1025WBL02

Tgt Ion:168 Resp: 159284

Ion	Ratio	Lower	Upper
168	100		
99	63.4	54.2	81.2

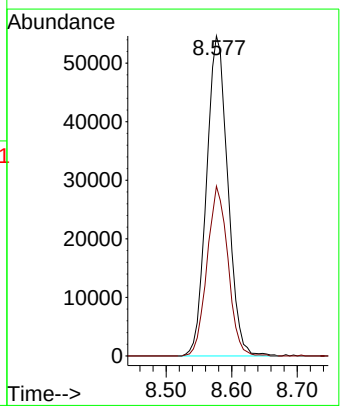


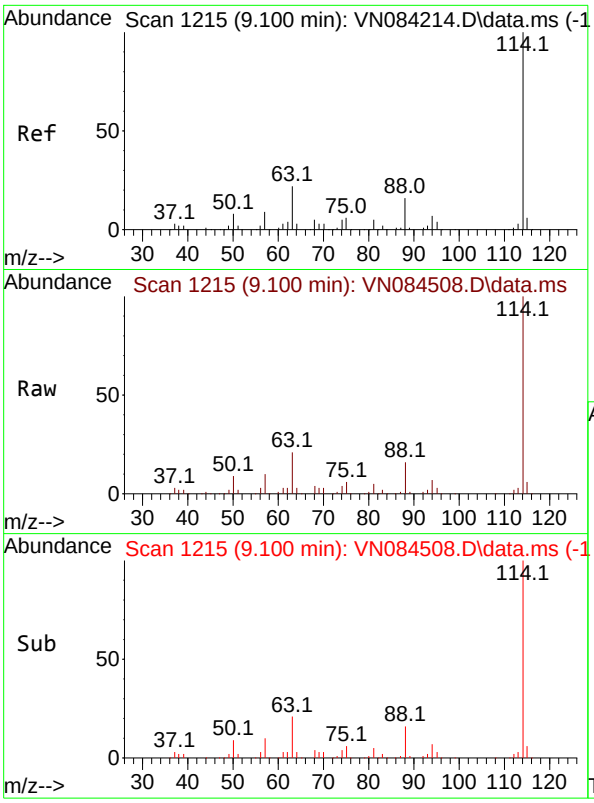


#33
1,2-Dichloroethane-d4
Concen: 52.218 ug/l
RT: 8.577 min Scan# 1126
Delta R.T. 0.000 min
Lab File: VN084508.D
Acq: 25 Oct 2024 11:51

Tgt Ion: 65 Resp: 123323

Ion	Ratio	Lower	Upper
65	100		
67	52.0	0.0	102.0



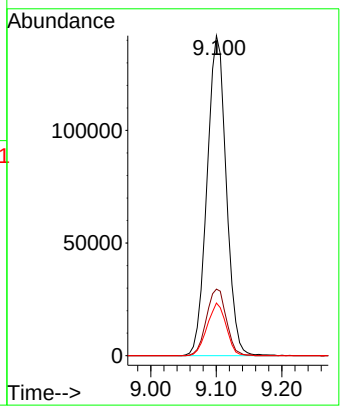


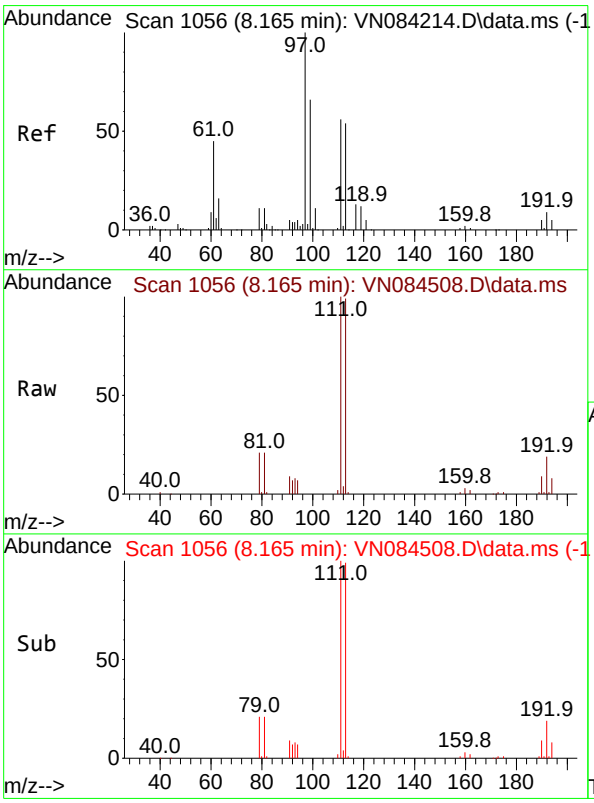
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.100 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN084508.D
Acq: 25 Oct 2024 11:51

Instrument :
MSVOA_N
ClientSampleId :
VN1025WBL02

Tgt Ion:114 Resp: 289382

Ion	Ratio	Lower	Upper
114	100		
63	20.8	0.0	43.8
88	16.5	0.0	31.6

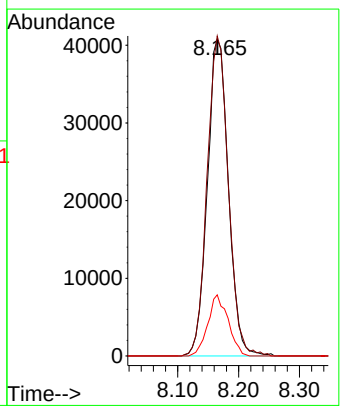


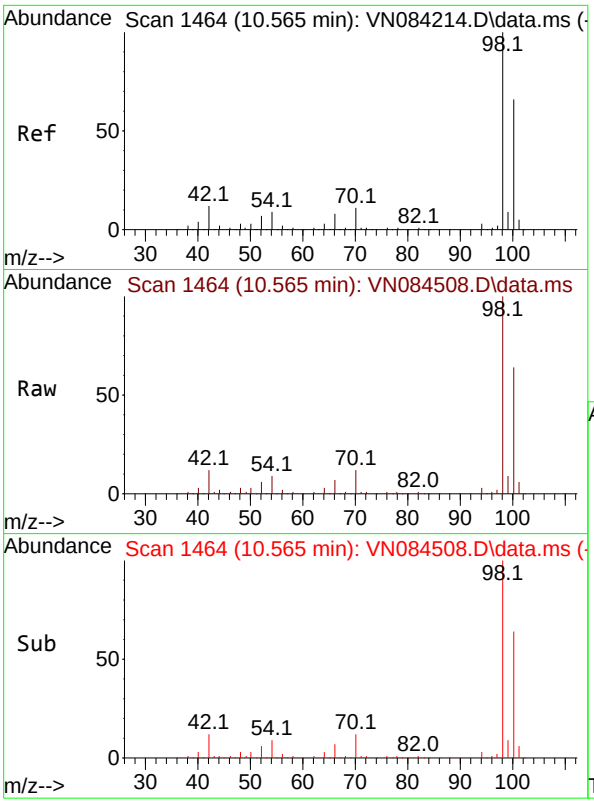


#35
Dibromofluoromethane
Concen: 51.380 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. 0.000 min
Lab File: VN084508.D
Acq: 25 Oct 2024 11:51

Tgt Ion:113 Resp: 98022

Ion	Ratio	Lower	Upper
113	100		
111	101.4	83.3	124.9
192	18.6	13.5	20.3



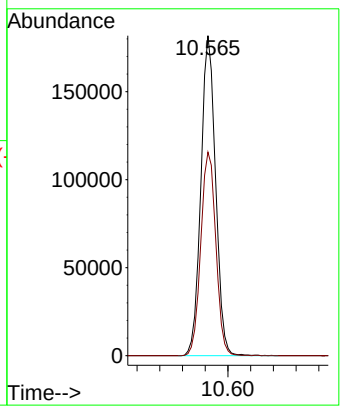


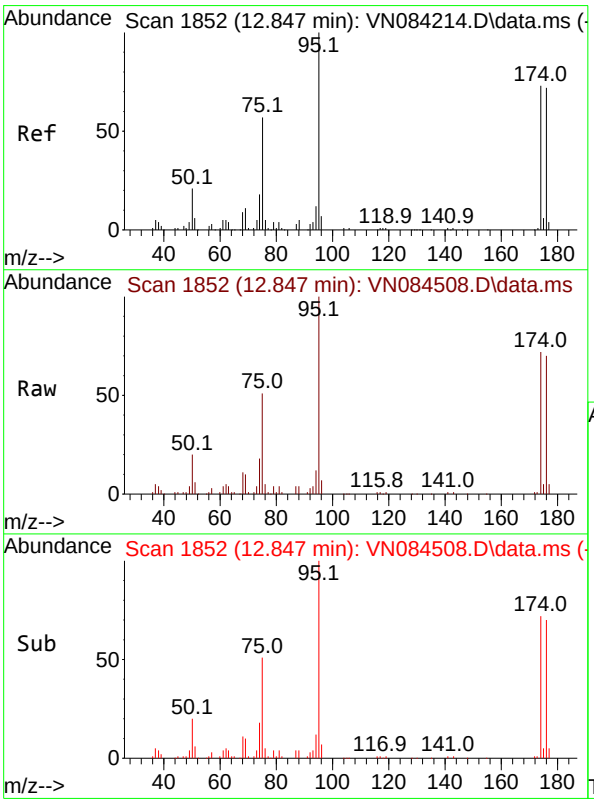
#50
Toluene-d8
Concen: 46.457 ug/l
RT: 10.565 min Scan# 14
Delta R.T. 0.000 min
Lab File: VN084508.D
Acq: 25 Oct 2024 11:51

Instrument :
MSVOA_N
ClientSampleId :
VN1025WBL02

Tgt Ion: 98 Resp: 326081

Ion	Ratio	Lower	Upper
98	100		
100	65.1	52.7	79.1

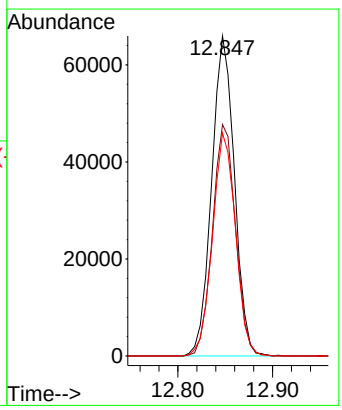


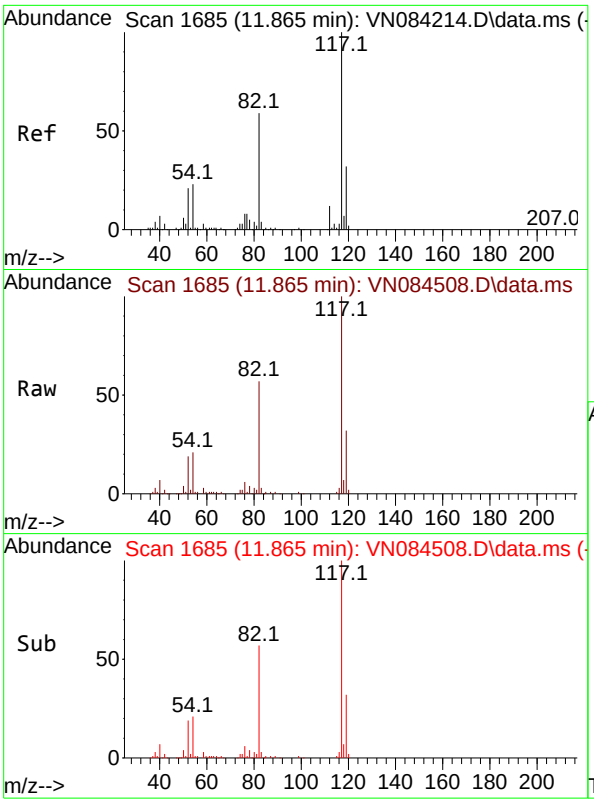


#62
4-Bromofluorobenzene
Concen: 43.023 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN084508.D
Acq: 25 Oct 2024 11:51

Tgt Ion: 95 Resp: 110012

Ion	Ratio	Lower	Upper
95	100		
174	73.5	0.0	145.2
176	70.4	0.0	140.0



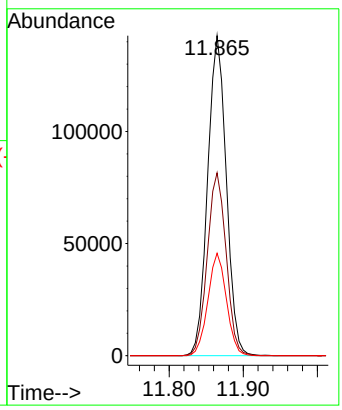


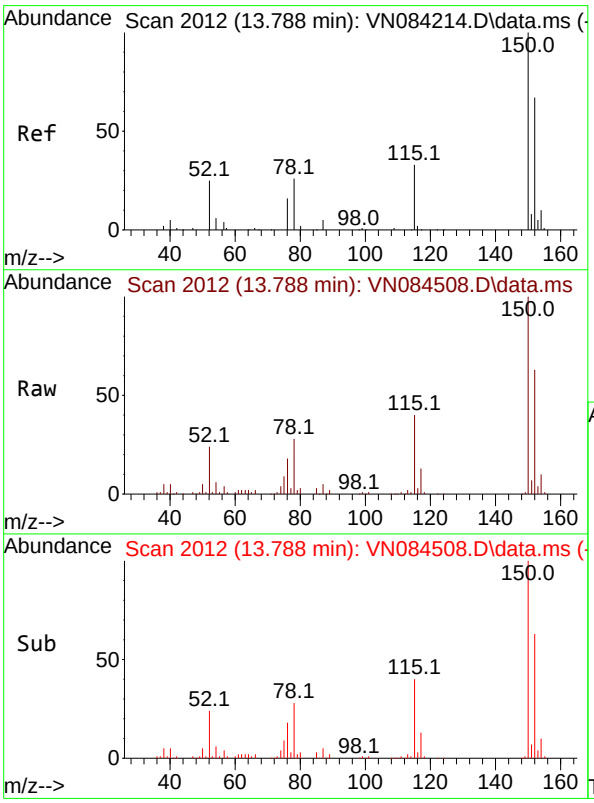
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN084508.D
Acq: 25 Oct 2024 11:51

Instrument :
MSVOA_N
ClientSampleId :
VN1025WBL02

Tgt Ion:117 Resp: 249149

Ion	Ratio	Lower	Upper
117	100		
82	57.2	47.2	70.8
119	32.0	25.4	38.0

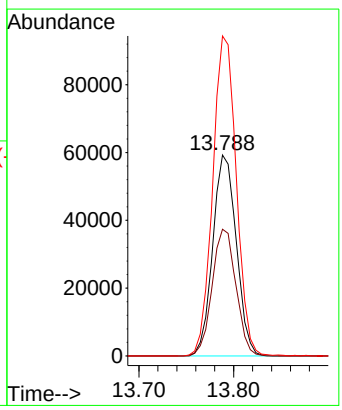




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. 0.000 min
Lab File: VN084508.D
Acq: 25 Oct 2024 11:51

Tgt Ion:152 Resp: 102517

Ion	Ratio	Lower	Upper
152	100		
115	63.6	31.3	93.9
150	159.3	0.0	349.8



Sample Results: **VN084508.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102524\
Data File : VN084508.D
Acq On : 25 Oct 2024 11:51
Operator : JC\MD
Sample : VN1025WBL02
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN1025WBL02

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\82N093024W.M
Title : SW846 8260

Signal : TIC: VN084508.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	7.430	923	931	941	rVB	4369	11471	1.32%	0.246%
2	8.165	1047	1056	1060	rBV	134830	305244	35.22%	6.539%
3	8.224	1060	1066	1078	rVB	232682	514150	59.33%	11.015%
4	8.577	1117	1126	1135	rBV	149597	332195	38.33%	7.117%
5	9.100	1207	1215	1226	rBV	339038	685307	79.08%	14.682%
6	10.565	1456	1464	1477	rBV	477116	866596	100.00%	18.566%
7	11.865	1677	1685	1696	rBV	436431	773923	89.31%	16.580%
8	12.847	1845	1852	1863	rVB	311741	523334	60.39%	11.212%
9	13.788	2005	2012	2020	rBV	374979	646668	74.62%	13.854%
10	14.100	2061	2065	2070	rBV3	6168	8835	1.02%	0.189%

Sum of corrected areas: 4667723

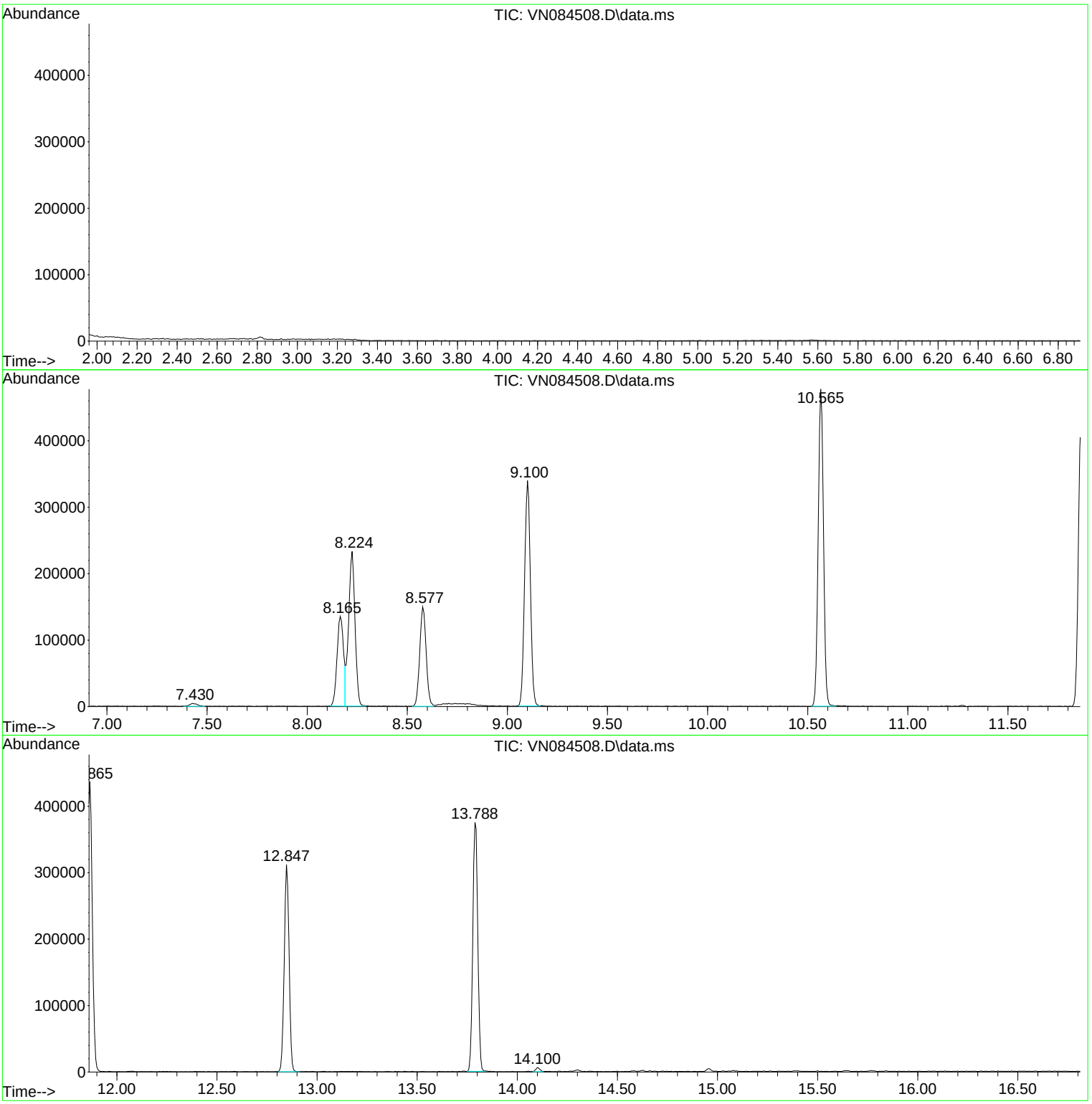
Sample Results: **VN084508.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102524\
Data File : VN084508.D
Acq On : 25 Oct 2024 11:51
Operator : JC\MD
Sample : VN1025WBL02
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN1025WBL02

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.M
Quant Title : SW846 8260

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



Library Search Compound Report

Sample Results: **VN084508.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102524\
Data File : VN084508.D
Acq On : 25 Oct 2024 11:51
Operator : JC\MD
Sample : VN1025WBL02
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN1025WBL02

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.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\VN102524\
Data File : VN084508.D
Acq On : 25 Oct 2024 11:51
Operator : JC\MD
Sample : VN1025WBL02
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN1025WBL02

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.M
Quant Title : SW846 8260

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

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

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

Report of Analysis

Client:	Garden State Laboratories, Inc.	Date Collected:	
Project:	Waste Water 2024	Date Received:	
Client Sample ID:	VN1028WBL01	SDG No.:	P4528
Lab Sample ID:	VN1028WBL01	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
VN084531.D	1		10/28/24 11:42	VN102824

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

Raw Data: **VN084531.D**

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

Report of Analysis

Client:	Garden State Laboratories, Inc.	Date Collected:	
Project:	Waste Water 2024	Date Received:	
Client Sample ID:	VN1028WBL01	SDG No.:	P4528
Lab Sample ID:	VN1028WBL01	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
VN084531.D	1		10/28/24 11:42	VN102824

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	49.7		74 - 125	99%	SPK: 50
1868-53-7	Dibromofluoromethane	51.4		75 - 124	103%	SPK: 50
2037-26-5	Toluene-d8	49.5		86 - 113	99%	SPK: 50
460-00-4	4-Bromofluorobenzene	44.9		77 - 121	90%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	166000	8.224			
540-36-3	1,4-Difluorobenzene	294000	9.1			
3114-55-4	Chlorobenzene-d5	254000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	102000	13.788			

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

Report of Analysis

Client:	Garden State Laboratories, Inc.	Date Collected:	
Project:	Waste Water 2024	Date Received:	
Client Sample ID:	VN1028WBL01	SDG No.:	P4528
Lab Sample ID:	VN1028WBL01	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
VN084531.D	1		10/28/24 11:42	VN102824

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\VN102824\
Data File : VN084531.D
Acq On : 28 Oct 2024 11:42
Operator : JC\MD
Sample : VN1028WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN1028WBL01

Quant Time: Oct 28 14:14:20 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.M
Quant Title : SW846 8260
QLast Update : Tue Oct 01 07:11:01 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.224	168	165769	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	293503	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	253666	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	101609	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	122120	49.686	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 99.380%			
35) Dibromofluoromethane	8.165	113	99532	51.439	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 102.880%			
50) Toluene-d8	10.565	98	352609	49.531	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 99.060%			
62) 4-Bromofluorobenzene	12.847	95	116395	44.880	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 89.760%			

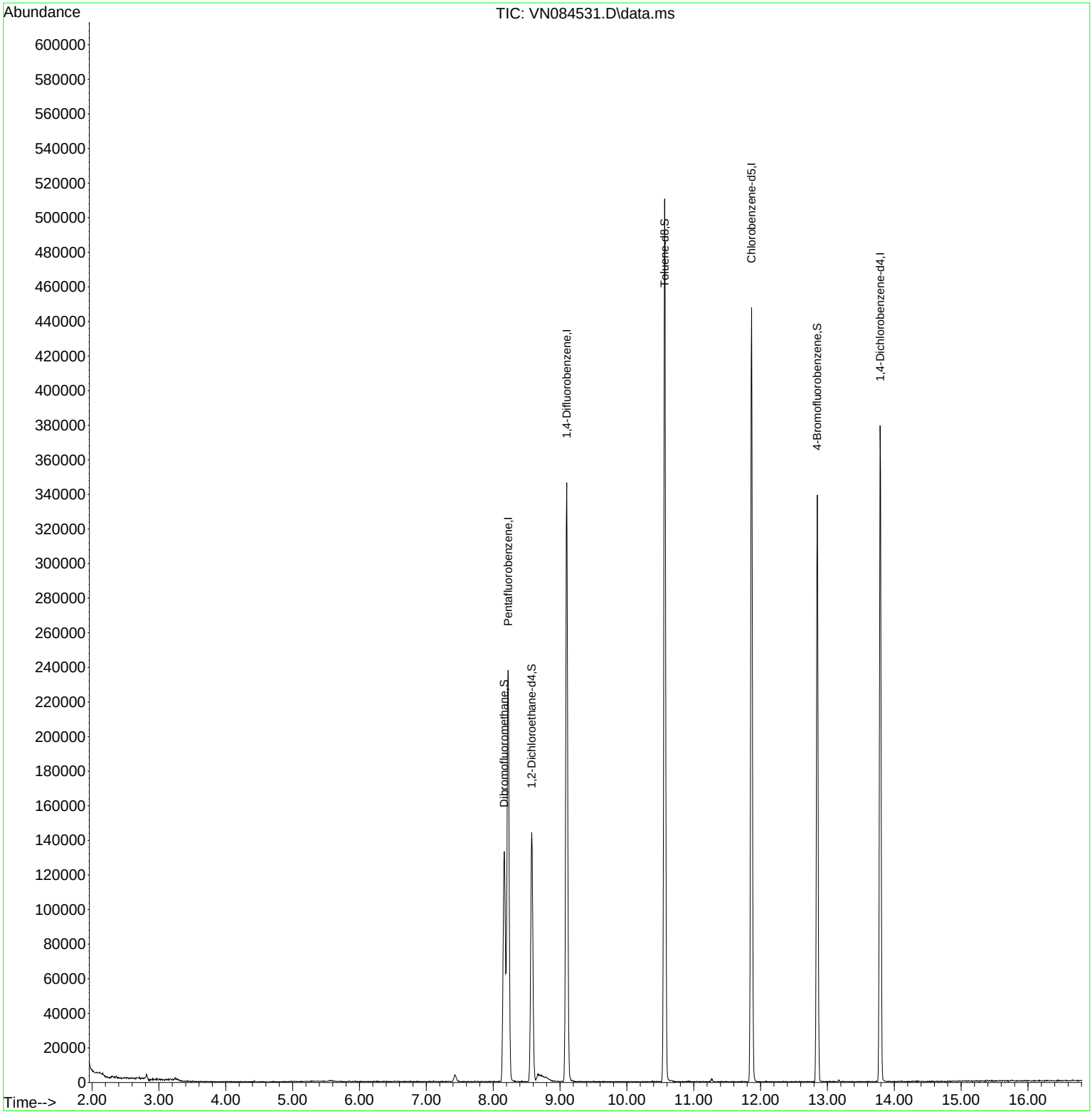
Target Compounds Qvalue

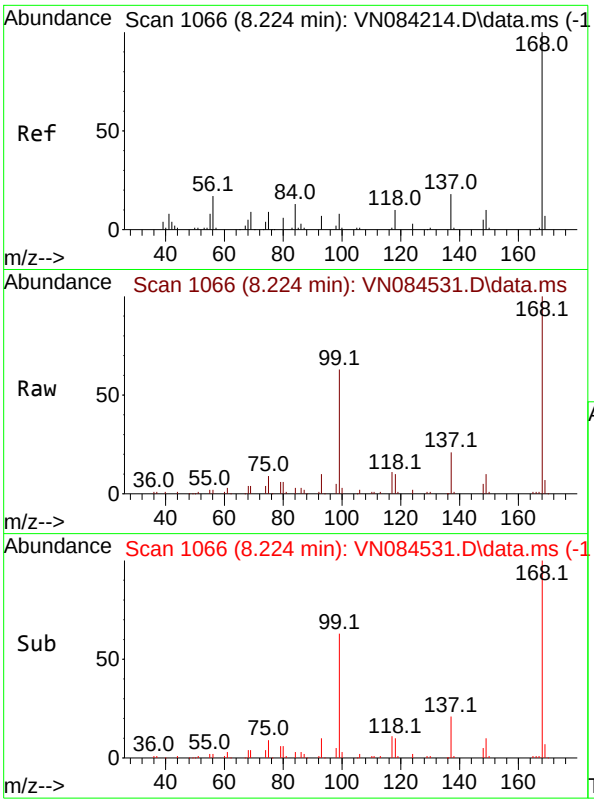
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102824\
Data File : VN084531.D
Acq On : 28 Oct 2024 11:42
Operator : JC\MD
Sample : VN1028WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN1028WBL01

Quant Time: Oct 28 14:14:20 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.M
Quant Title : SW846 8260
QLast Update : Tue Oct 01 07:11:01 2024
Response via : Initial Calibration



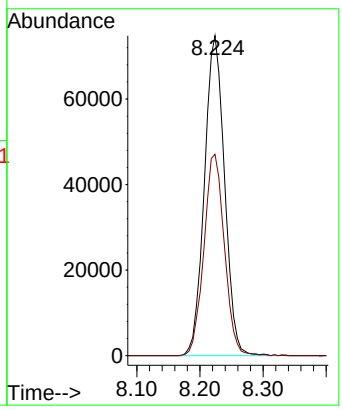


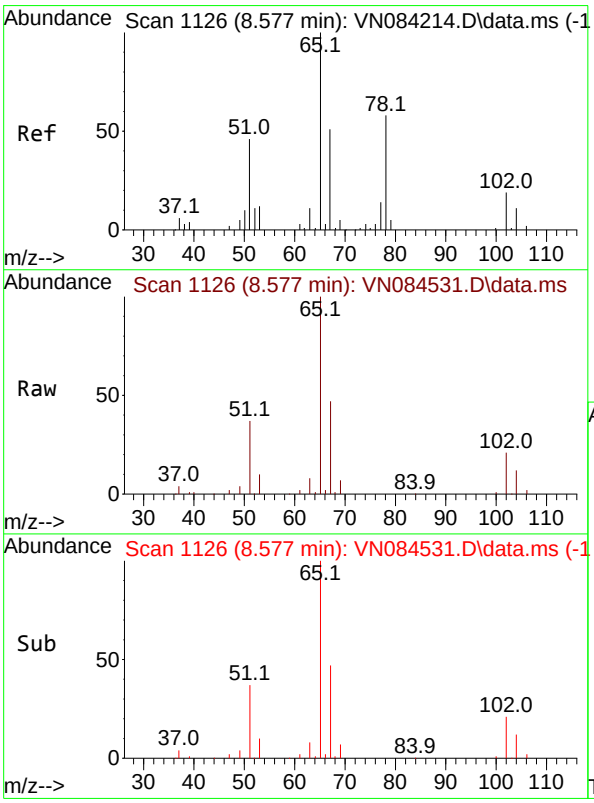
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN084531.D
Acq: 28 Oct 2024 11:42

Instrument :
MSVOA_N
ClientSampleId :
VN1028WBL01

Tgt Ion:168 Resp: 165769

Ion	Ratio	Lower	Upper
168	100		
99	62.9	54.2	81.2

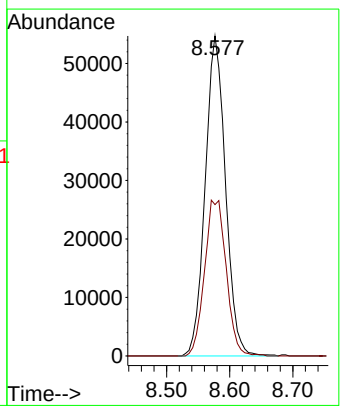


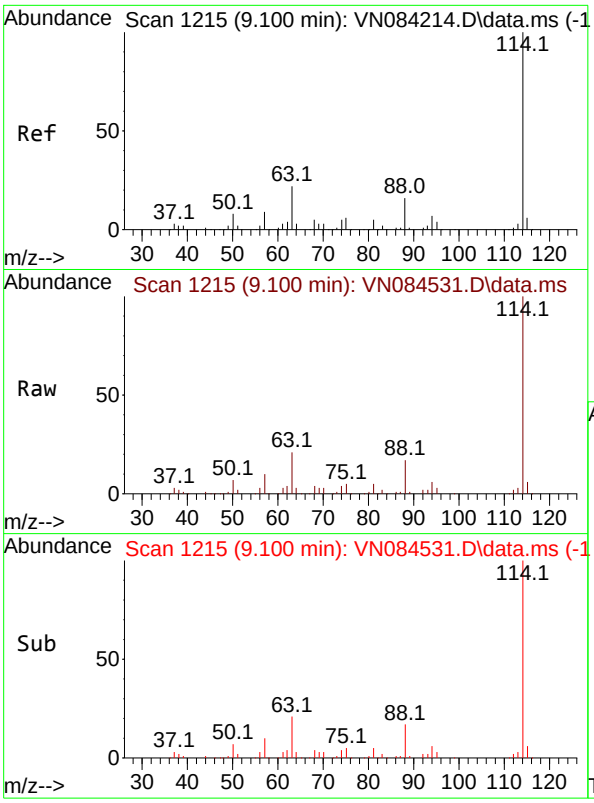


#33
1,2-Dichloroethane-d4
Concen: 49.686 ug/l
RT: 8.577 min Scan# 1126
Delta R.T. 0.000 min
Lab File: VN084531.D
Acq: 28 Oct 2024 11:42

Tgt Ion: 65 Resp: 122120

Ion	Ratio	Lower	Upper
65	100		
67	52.2	0.0	102.0



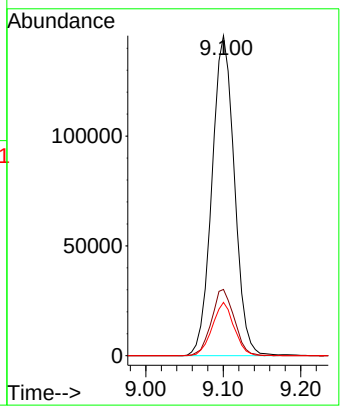


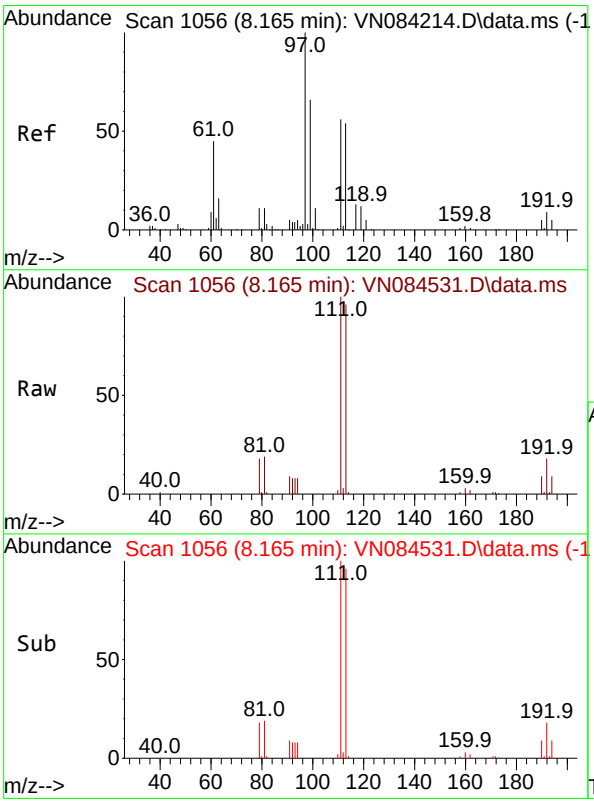
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.100 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN084531.D
Acq: 28 Oct 2024 11:42

Instrument :
MSVOA_N
ClientSampleId :
VN1028WBL01

Tgt Ion:114 Resp: 293503

Ion	Ratio	Lower	Upper
114	100		
63	20.7	0.0	43.8
88	16.7	0.0	31.6

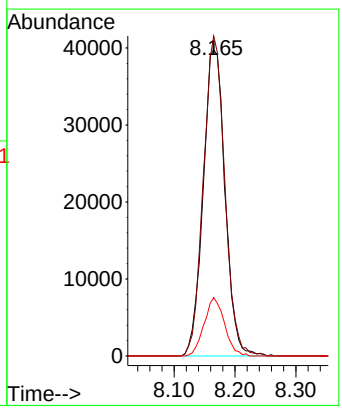


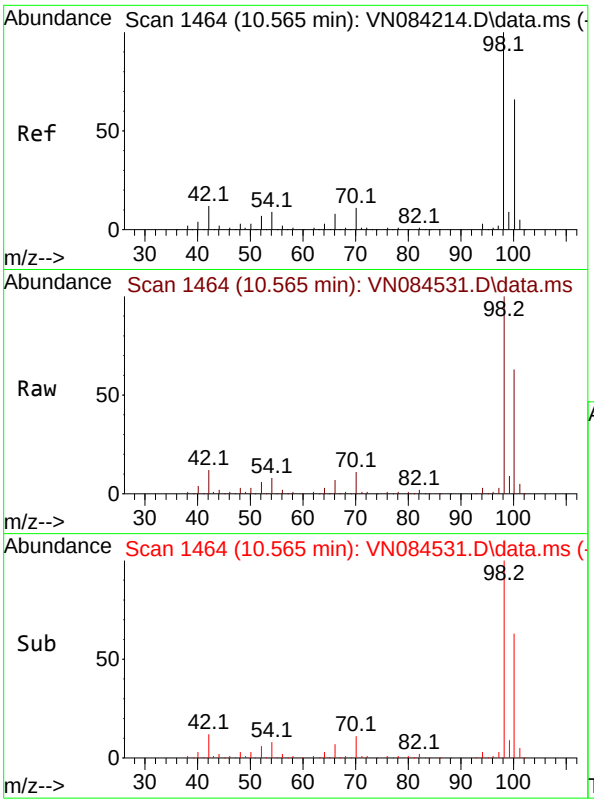


#35
Dibromofluoromethane
Concen: 51.439 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. 0.000 min
Lab File: VN084531.D
Acq: 28 Oct 2024 11:42

Tgt Ion:113 Resp: 99532

Ion	Ratio	Lower	Upper
113	100		
111	101.6	83.3	124.9
192	17.7	13.5	20.3



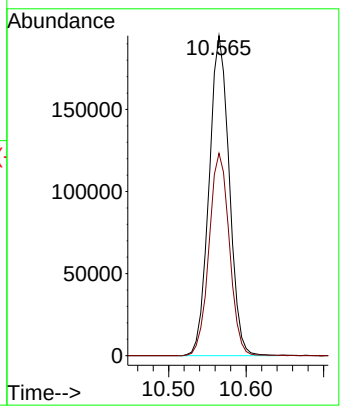


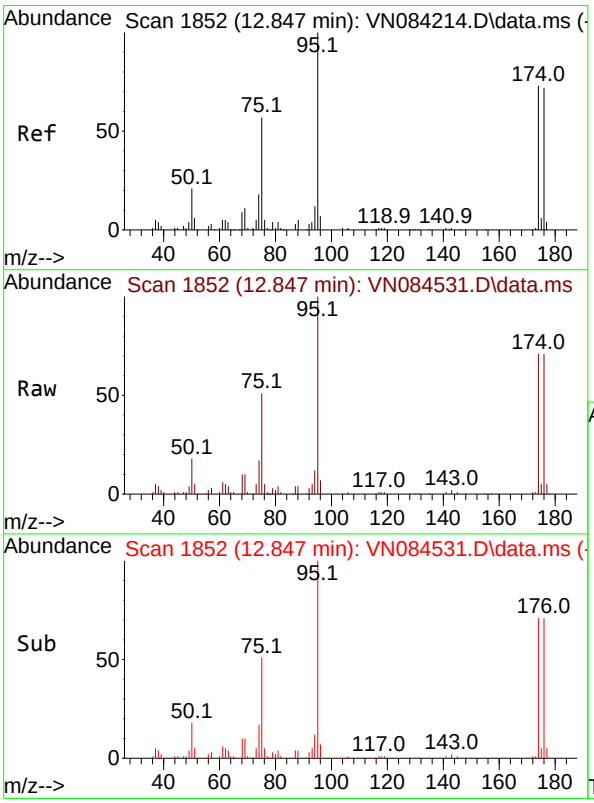
#50
Toluene-d8
Concen: 49.531 ug/l
RT: 10.565 min Scan# 14
Delta R.T. 0.000 min
Lab File: VN084531.D
Acq: 28 Oct 2024 11:42

Instrument :
MSVOA_N
ClientSampleId :
VN1028WBL01

Tgt Ion: 98 Resp: 352609

Ion	Ratio	Lower	Upper
98	100		
100	63.7	52.7	79.1

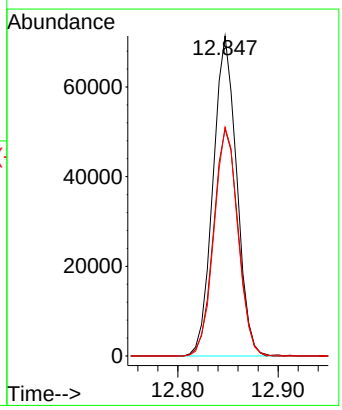


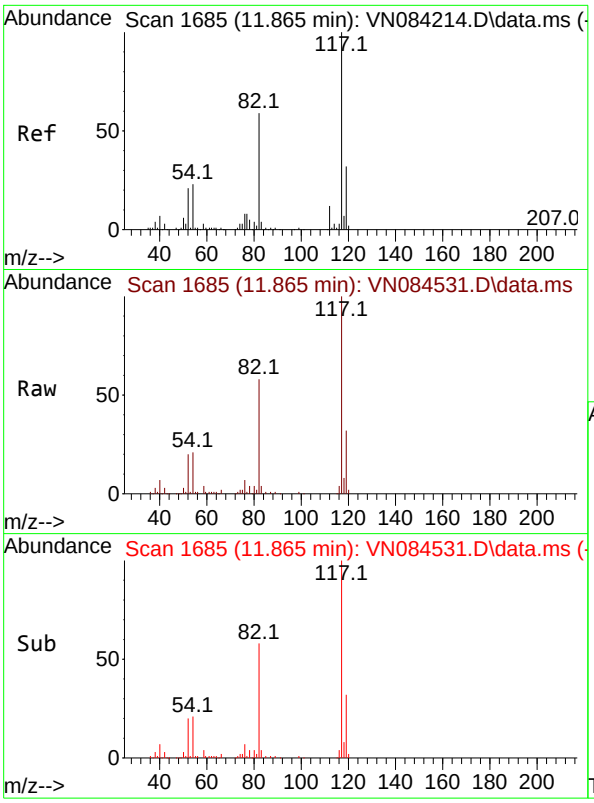


#62
4-Bromofluorobenzene
Concen: 44.880 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN084531.D
Acq: 28 Oct 2024 11:42

Tgt Ion: 95 Resp: 116395

Ion	Ratio	Lower	Upper
95	100		
174	74.0	0.0	145.2
176	72.3	0.0	140.0



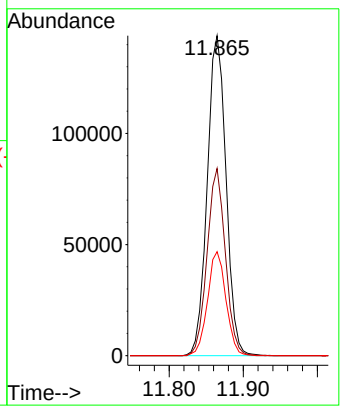


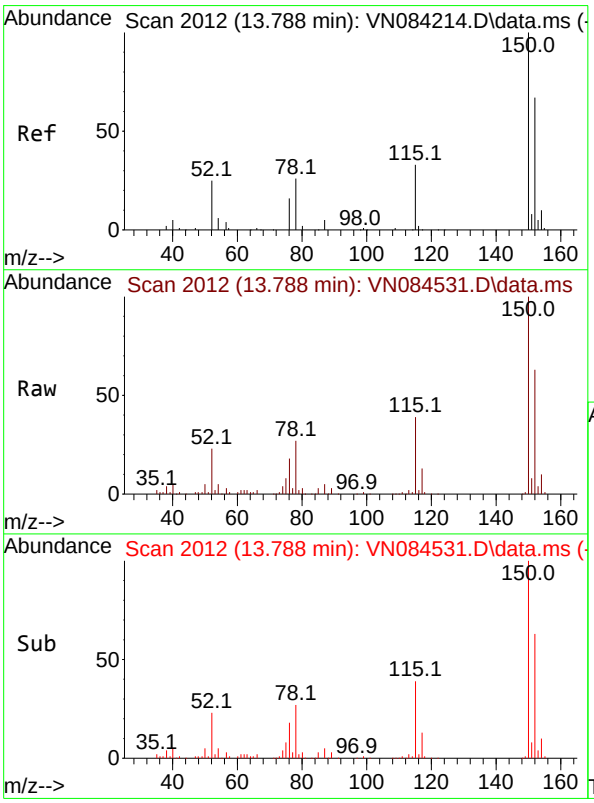
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN084531.D
Acq: 28 Oct 2024 11:42

Instrument :
MSVOA_N
ClientSampleId :
VN1028WBL01

Tgt Ion:117 Resp: 253666

Ion	Ratio	Lower	Upper
117	100		
82	58.5	47.2	70.8
119	32.5	25.4	38.0

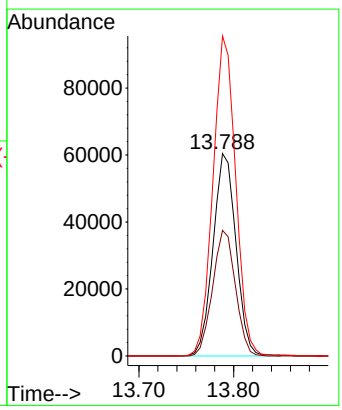




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. 0.000 min
Lab File: VN084531.D
Acq: 28 Oct 2024 11:42

Tgt Ion:152 Resp: 101609

Ion	Ratio	Lower	Upper
152	100		
115	61.7	31.3	93.9
150	156.9	0.0	349.8



Sample Results: **VN084531.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102824\
Data File : VN084531.D
Acq On : 28 Oct 2024 11:42
Operator : JC\MD
Sample : VN1028WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN1028WBL01

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\82N093024W.M
Title : SW846 8260

Signal : TIC: VN084531.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	7.424	919	930	938	rBV2	4101	11235	1.21%	0.235%
2	8.165	1047	1056	1060	rBV	133071	311452	33.57%	6.513%
3	8.224	1060	1066	1078	rVB	237433	531172	57.25%	11.107%
4	8.577	1116	1126	1136	rBV2	144162	331837	35.77%	6.939%
5	9.100	1205	1215	1226	rBV	346351	695773	74.99%	14.549%
6	10.565	1456	1464	1476	rBV	510719	927766	100.00%	19.400%
7	11.865	1675	1685	1696	rBV	447811	782698	84.36%	16.367%
8	12.847	1845	1852	1862	rBV	339570	562477	60.63%	11.762%
9	13.788	2005	2012	2026	rBV	379283	627907	67.68%	13.130%

Sum of corrected areas: 4782317

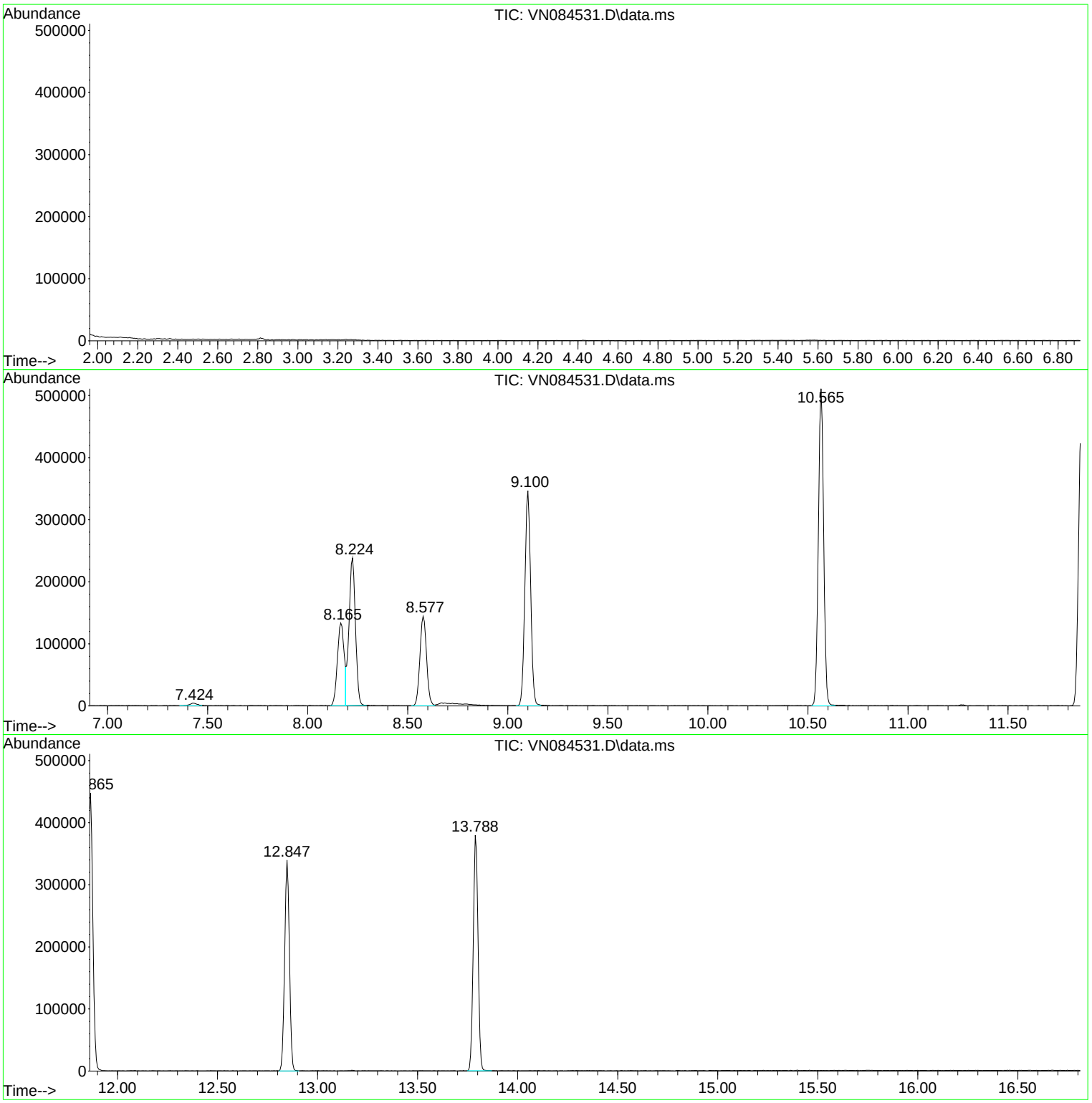
Sample Results: **VN084531.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102824\
Data File : VN084531.D
Acq On : 28 Oct 2024 11:42
Operator : JC\MD
Sample : VN1028WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN1028WBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.M
Quant Title : SW846 8260

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



Library Search Compound Report

Sample Results: **VN084531.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102824\
Data File : VN084531.D
Acq On : 28 Oct 2024 11:42
Operator : JC\MD
Sample : VN1028WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN1028WBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.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\VN102824\
Data File : VN084531.D
Acq On : 28 Oct 2024 11:42
Operator : JC\MD
Sample : VN1028WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN1028WBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.M
Quant Title : SW846 8260

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

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

Raw Data: **VN084509.D**

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

Report of Analysis

Client:	Garden State Laboratories, Inc.	Date Collected:	
Project:	Waste Water 2024	Date Received:	
Client Sample ID:	VN1025WBS02	SDG No.:	P4528
Lab Sample ID:	VN1025WBS02	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
VN084509.D	1		10/25/24 12:27	VN102524

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	13.7		0.21	1.00	ug/L
74-87-3	Chloromethane	15.2		0.35	1.00	ug/L
75-01-4	Vinyl Chloride	16.2		0.34	1.00	ug/L
74-83-9	Bromomethane	16.2		1.40	5.00	ug/L
75-00-3	Chloroethane	15.4		0.56	1.00	ug/L
75-69-4	Trichlorofluoromethane	18.1		0.34	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	18.0		0.25	1.00	ug/L
75-35-4	1,1-Dichloroethene	18.2		0.26	1.00	ug/L
67-64-1	Acetone	94.3		1.40	5.00	ug/L
75-15-0	Carbon Disulfide	14.8		0.32	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	19.2		0.16	1.00	ug/L
79-20-9	Methyl Acetate	20.7		0.60	1.00	ug/L
75-09-2	Methylene Chloride	18.3		0.32	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	18.2		0.25	1.00	ug/L
75-34-3	1,1-Dichloroethane	19.2		0.23	1.00	ug/L
110-82-7	Cyclohexane	16.4		1.60	5.00	ug/L
78-93-3	2-Butanone	100		1.30	5.00	ug/L
56-23-5	Carbon Tetrachloride	19.0		0.25	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	19.0		0.25	1.00	ug/L
74-97-5	Bromochloromethane	21.0		0.18	1.00	ug/L
67-66-3	Chloroform	19.5		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	16.9		0.19	1.00	ug/L
71-43-2	Benzene	19.2		0.16	1.00	ug/L
107-06-2	1,2-Dichloroethane	19.5		0.24	1.00	ug/L
79-01-6	Trichloroethene	19.8		0.32	1.00	ug/L
78-87-5	1,2-Dichloropropane	20.2		0.19	1.00	ug/L
75-27-4	Bromodichloromethane	20.0		0.24	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	110		0.75	5.00	ug/L
108-88-3	Toluene	19.6		0.18	1.00	ug/L

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

Report of Analysis

Client:	Garden State Laboratories, Inc.	Date Collected:	
Project:	Waste Water 2024	Date Received:	
Client Sample ID:	VN1025WBS02	SDG No.:	P4528
Lab Sample ID:	VN1025WBS02	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
VN084509.D	1		10/25/24 12:27	VN102524

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	19.1		0.21	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	19.4		0.18	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	21.5		0.21	1.00	ug/L
591-78-6	2-Hexanone	110		1.10	5.00	ug/L
124-48-1	Dibromochloromethane	21.1		0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	20.1		0.16	1.00	ug/L
127-18-4	Tetrachloroethene	18.8		0.25	1.00	ug/L
108-90-7	Chlorobenzene	19.5		0.13	1.00	ug/L
100-41-4	Ethyl Benzene	18.8		0.16	1.00	ug/L
179601-23-1	m/p-Xylenes	39.6		0.31	2.00	ug/L
95-47-6	o-Xylene	19.9		0.14	1.00	ug/L
100-42-5	Styrene	20.2		0.16	1.00	ug/L
75-25-2	Bromoform	20.9		0.21	1.00	ug/L
98-82-8	Isopropylbenzene	17.8		0.13	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	20.0		0.27	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	18.5		0.24	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	18.4		0.27	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	18.5		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	17.8		0.42	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	17.6		0.51	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	47.7		74 - 125	95%	SPK: 50
1868-53-7	Dibromofluoromethane	50.8		75 - 124	102%	SPK: 50
2037-26-5	Toluene-d8	49.7		86 - 113	99%	SPK: 50
460-00-4	4-Bromofluorobenzene	51.4		77 - 121	103%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	172000	8.224			
540-36-3	1,4-Difluorobenzene	294000	9.1			
3114-55-4	Chlorobenzene-d5	260000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	131000	13.788			

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

Report of Analysis

Client:	Garden State Laboratories, Inc.	Date Collected:	
Project:	Waste Water 2024	Date Received:	
Client Sample ID:	VN1025WBS02	SDG No.:	P4528
Lab Sample ID:	VN1025WBS02	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
VN084509.D	1		10/25/24 12:27	VN102524

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\VN102524\
Data File : VN084509.D
Acq On : 25 Oct 2024 12:27
Operator : JC\MD
Sample : VN1025WBS02
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 25 23:30:35 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.M
Quant Title : SW846 8260
QLast Update : Tue Oct 01 07:11:01 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VN1025WBS02

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 10/28/2024
Supervised By :Mahesh Dadoda 10/28/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.224	168	171552	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	293994	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	259694	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	130520	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	121357	47.711	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 95.420%			
35) Dibromofluoromethane	8.165	113	98440	50.790	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 101.580%			
50) Toluene-d8	10.565	98	354456	49.708	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 99.420%			
62) 4-Bromofluorobenzene	12.847	95	133424	51.360	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 102.720%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.124	85	27726	13.663	ug/l	97
3) Chloromethane	2.359	50	35222	15.202	ug/l	96
4) Vinyl Chloride	2.512	62	36312	16.179	ug/l	98
5) Bromomethane	2.953	94	24035	16.236	ug/l	100
6) Chloroethane	3.118	64	24742	15.393	ug/l	90
7) Trichlorofluoromethane	3.495	101	63142	18.067	ug/l	98
8) Diethyl Ether	3.959	74	23319	17.991	ug/l	99
9) 1,1,2-Trichlorotrifluo...	4.371	101	36127	18.041	ug/l	99
10) Methyl Iodide	4.589	142	43700	16.945	ug/l	96
11) Tert butyl alcohol	5.530	59	41408	98.728	ug/l #	73
12) 1,1-Dichloroethene	4.342	96	35205	18.226	ug/l	98
13) Acrolein	4.183	56	50668	105.230	ug/l	100
14) Allyl chloride	5.024	41	55306	16.487	ug/l	96
15) Acrylonitrile	5.718	53	105726	99.822	ug/l	99
16) Acetone	4.424	43	103041	94.302	ug/l	96
17) Carbon Disulfide	4.706	76	90239	14.756	ug/l	100
18) Methyl Acetate	5.024	43	49195	20.657	ug/l	100
19) Methyl tert-butyl Ether	5.794	73	125176	19.201	ug/l	100
20) Methylene Chloride	5.271	84	40654	18.303	ug/l	93
21) trans-1,2-Dichloroethene	5.783	96	36842	18.206	ug/l	99
22) Diisopropyl ether	6.677	45	133205	19.197	ug/l	99
23) Vinyl Acetate	6.600	43	498831	96.927	ug/l	99
24) 1,1-Dichloroethane	6.565	63	74694	19.249	ug/l	98
25) 2-Butanone	7.483	43	150891	101.389	ug/l	97
26) 2,2-Dichloropropane	7.494	77	65133	18.616	ug/l	97
27) cis-1,2-Dichloroethene	7.483	96	46425	18.985	ug/l	99
28) Bromochloromethane	7.812	49	36398	21.023	ug/l	98
29) Tetrahydrofuran	7.841	42	94143	102.506	ug/l	96
30) Chloroform	7.965	83	78597	19.500	ug/l	95
31) Cyclohexane	8.259	56	61664	16.367	ug/l	95
32) 1,1,1-Trichloroethane	8.171	97	69215	19.120	ug/l	96
36) 1,1-Dichloropropene	8.371	75	52866	18.778	ug/l	99
37) Ethyl Acetate	7.559	43	59834	20.716	ug/l	100
38) Carbon Tetrachloride	8.359	117	58702	19.008	ug/l	99
39) Methylcyclohexane	9.600	83	53070	16.937	ug/l	92
40) Benzene	8.606	78	168355	19.193	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102524\
Data File : VN084509.D
Acq On : 25 Oct 2024 12:27
Operator : JC\MD
Sample : VN1025WBS02
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 25 23:30:35 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.M
Quant Title : SW846 8260
QLast Update : Tue Oct 01 07:11:01 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VN1025WBS02

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 10/28/2024
Supervised By :Mahesh Dadoda 10/28/2024

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.783	41	31128	19.852	ug/l		97
42) 1,2-Dichloroethane	8.671	62	58130	19.548	ug/l		100
43) Isopropyl Acetate	8.688	43	104055	18.393	ug/l		98
44) Trichloroethene	9.347	130	40633	19.834	ug/l		96
45) 1,2-Dichloropropane	9.624	63	41836	20.162	ug/l		98
46) Dibromomethane	9.706	93	29427	21.015	ug/l		99
47) Bromodichloromethane	9.888	83	62197	19.993	ug/l	#	96
48) Methyl methacrylate	9.677	41	43499	19.316	ug/l		97
49) 1,4-Dioxane	9.694	88	18121	437.079	ug/l	#	93
51) 4-Methyl-2-Pentanone	10.441	43	303407	110.350	ug/l		100
52) Toluene	10.629	92	104966	19.624	ug/l		100
53) t-1,3-Dichloropropene	10.835	75	60652	19.126	ug/l		100
54) cis-1,3-Dichloropropene	10.312	75	66296	19.436	ug/l		95
55) 1,1,2-Trichloroethane	11.018	97	41159	21.465	ug/l		97
56) Ethyl methacrylate	10.871	69	65671	20.814	ug/l		97
57) 1,3-Dichloropropane	11.165	76	69577	20.306	ug/l		99
58) 2-Chloroethyl Vinyl ether	10.159	63	152054	103.886	ug/l		98
59) 2-Hexanone	11.194	43	224074	109.038	ug/l		100
60) Dibromochloromethane	11.359	129	47794	21.095	ug/l		99
61) 1,2-Dibromoethane	11.465	107	40071	20.111	ug/l		97
64) Tetrachloroethene	11.100	164	34033	18.815	ug/l		95
65) Chlorobenzene	11.888	112	112381	19.517	ug/l		96
66) 1,1,1,2-Tetrachloroethane	11.959	131	40507	20.424	ug/l		96
67) Ethyl Benzene	11.965	91	191570	18.813	ug/l		98
68) m/p-Xylenes	12.070	106	149303	39.637	ug/l		99
69) o-Xylene	12.400	106	70967	19.913	ug/l		98
70) Styrene	12.412	104	121840	20.184	ug/l		98
71) Bromoform	12.576	173	30450	20.854	ug/l	#	94
73) Isopropylbenzene	12.694	105	177747	17.846	ug/l		99
74) N-amyl acetate	12.494	43	83413	18.494	ug/l		97
75) 1,1,2,2-Tetrachloroethane	12.935	83	59930	20.011	ug/l		98
76) 1,2,3-Trichloropropane	12.994	75	51890m	19.474	ug/l		
77) Bromobenzene	12.982	156	44762	18.632	ug/l		99
78) n-propylbenzene	13.035	91	215810	18.702	ug/l		99
79) 2-Chlorotoluene	13.123	91	136297	18.510	ug/l		98
80) 1,3,5-Trimethylbenzene	13.170	105	153246	18.862	ug/l		100
81) trans-1,4-Dichloro-2-b...	12.741	75	19959m	17.958	ug/l		
82) 4-Chlorotoluene	13.223	91	138768	18.721	ug/l		100
83) tert-Butylbenzene	13.435	119	128615	17.811	ug/l		99
84) 1,2,4-Trimethylbenzene	13.482	105	157700	19.268	ug/l		98
85) sec-Butylbenzene	13.617	105	178019	18.475	ug/l		99
86) p-Isopropyltoluene	13.729	119	149454	18.757	ug/l		100
87) 1,3-Dichlorobenzene	13.729	146	83237	18.469	ug/l		99
88) 1,4-Dichlorobenzene	13.812	146	83627	18.374	ug/l		98
89) n-Butylbenzene	14.059	91	121940	16.877	ug/l		100
90) Hexachloroethane	14.335	117	27574	17.049	ug/l		98
91) 1,2-Dichlorobenzene	14.106	146	81762	18.501	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	14.717	75	11856	19.184	ug/l		99
93) 1,2,4-Trichlorobenzene	15.394	180	38758	17.806	ug/l		100
94) Hexachlorobutadiene	15.500	225	17672	16.280	ug/l		98
95) Naphthalene	15.641	128	123953	17.177	ug/l		99
96) 1,2,3-Trichlorobenzene	15.841	180	38435	17.640	ug/l		98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102524\
Data File : VN084509.D
Acq On : 25 Oct 2024 12:27
Operator : JC\MD
Sample : VN1025WBS02
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 25 23:30:35 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.M
Quant Title : SW846 8260
QLast Update : Tue Oct 01 07:11:01 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VN1025WBS02

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 10/28/2024
Supervised By :Mahesh Dadoda 10/28/2024

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

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

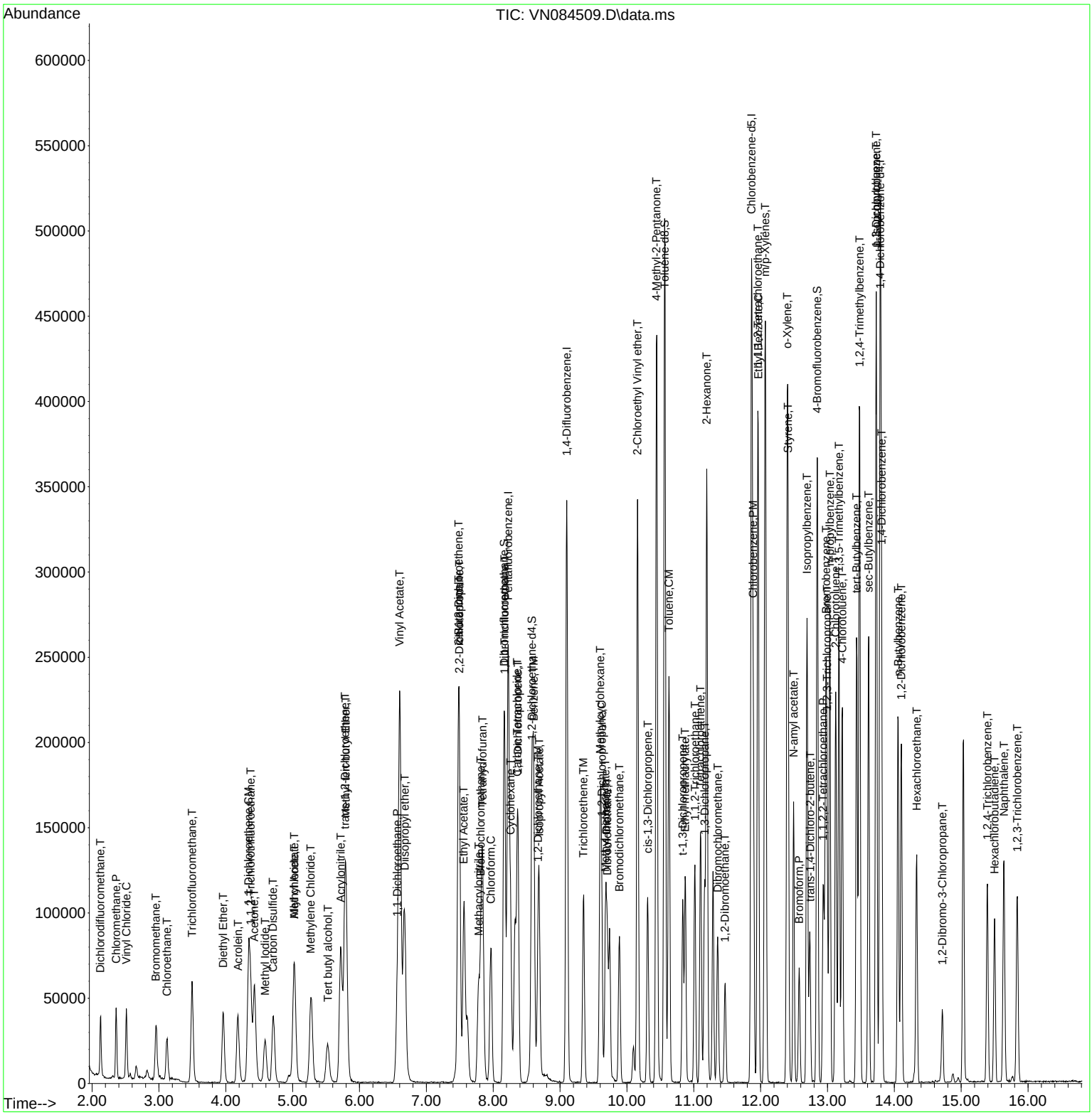
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102524\
Data File : VN084509.D
Acq On : 25 Oct 2024 12:27
Operator : JC\MD
Sample : VN1025WBS02
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 25 23:30:35 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.M
Quant Title : SW846 8260
QLast Update : Tue Oct 01 07:11:01 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VN1025WBS02

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 10/28/2024
Supervised By :Mahesh Dadoda 10/28/2024



Raw Data: **VN084532.D**

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

Report of Analysis

Client:	Garden State Laboratories, Inc.	Date Collected:	
Project:	Waste Water 2024	Date Received:	
Client Sample ID:	VN1028WBS01	SDG No.:	P4528
Lab Sample ID:	VN1028WBS01	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
VN084532.D	1		10/28/24 12:18	VN102824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	17.2		0.21	1.00	ug/L
74-87-3	Chloromethane	18.3		0.35	1.00	ug/L
75-01-4	Vinyl Chloride	18.6		0.34	1.00	ug/L
74-83-9	Bromomethane	18.8		1.40	5.00	ug/L
75-00-3	Chloroethane	16.8		0.56	1.00	ug/L
75-69-4	Trichlorofluoromethane	20.4		0.34	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	21.1		0.25	1.00	ug/L
75-35-4	1,1-Dichloroethene	19.9		0.26	1.00	ug/L
67-64-1	Acetone	98.9		1.40	5.00	ug/L
75-15-0	Carbon Disulfide	16.7		0.32	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	20.0		0.16	1.00	ug/L
79-20-9	Methyl Acetate	23.2		0.60	1.00	ug/L
75-09-2	Methylene Chloride	20.7		0.32	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	20.1		0.25	1.00	ug/L
75-34-3	1,1-Dichloroethane	20.8		0.23	1.00	ug/L
110-82-7	Cyclohexane	17.7		1.60	5.00	ug/L
78-93-3	2-Butanone	98.1		1.30	5.00	ug/L
56-23-5	Carbon Tetrachloride	21.1		0.25	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	19.9		0.25	1.00	ug/L
74-97-5	Bromochloromethane	17.1		0.18	1.00	ug/L
67-66-3	Chloroform	21.3		0.26	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	20.7		0.19	1.00	ug/L
108-87-2	Methylcyclohexane	19.0		0.19	1.00	ug/L
71-43-2	Benzene	21.5		0.16	1.00	ug/L
107-06-2	1,2-Dichloroethane	21.4		0.24	1.00	ug/L
79-01-6	Trichloroethene	21.0		0.32	1.00	ug/L
78-87-5	1,2-Dichloropropane	22.3		0.19	1.00	ug/L
75-27-4	Bromodichloromethane	21.7		0.24	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	110		0.75	5.00	ug/L
108-88-3	Toluene	21.7		0.18	1.00	ug/L

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

Report of Analysis

Client:	Garden State Laboratories, Inc.	Date Collected:	
Project:	Waste Water 2024	Date Received:	
Client Sample ID:	VN1028WBS01	SDG No.:	P4528
Lab Sample ID:	VN1028WBS01	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
VN084532.D	1		10/28/24 12:18	VN102824

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	21.0		0.18	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	22.5		0.21	1.00	ug/L
591-78-6	2-Hexanone	110		1.10	5.00	ug/L
124-48-1	Dibromochloromethane	22.4		0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	22.0		0.16	1.00	ug/L
127-18-4	Tetrachloroethene	21.8		0.25	1.00	ug/L
108-90-7	Chlorobenzene	20.7		0.13	1.00	ug/L
100-41-4	Ethyl Benzene	20.1		0.16	1.00	ug/L
179601-23-1	m/p-Xylenes	42.2		0.31	2.00	ug/L
95-47-6	o-Xylene	21.0		0.14	1.00	ug/L
100-42-5	Styrene	21.4		0.16	1.00	ug/L
75-25-2	Bromoform	22.1		0.21	1.00	ug/L
98-82-8	Isopropylbenzene	18.9		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	19.6		0.24	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	19.5		0.27	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	19.5		0.19	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	18.5		0.46	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	18.9		0.42	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	18.4		0.51	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	52.4		74 - 125	105%	SPK: 50
1868-53-7	Dibromofluoromethane	56.4		75 - 124	113%	SPK: 50
2037-26-5	Toluene-d8	53.9		86 - 113	108%	SPK: 50
460-00-4	4-Bromofluorobenzene	56.4		77 - 121	113%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	158000	8.224			
540-36-3	1,4-Difluorobenzene	267000	9.1			
3114-55-4	Chlorobenzene-d5	240000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	121000	13.788			

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

Report of Analysis

Client:	Garden State Laboratories, Inc.	Date Collected:	
Project:	Waste Water 2024	Date Received:	
Client Sample ID:	VN1028WBS01	SDG No.:	P4528
Lab Sample ID:	VN1028WBS01	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
VN084532.D	1		10/28/24 12:18	VN102824

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\VN102824\
Data File : VN084532.D
Acq On : 28 Oct 2024 12:18
Operator : JC\MD
Sample : VN1028WBS01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 28 14:14:28 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.M
Quant Title : SW846 8260
QLast Update : Tue Oct 01 07:11:01 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VN1028WBS01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 10/29/2024
Supervised By :Semsettin Yesilyurt 10/29/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.224	168	157919	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	266847	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	239542	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	120806	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	122667	52.389	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 104.780%			
35) Dibromofluoromethane	8.165	113	99307	56.449	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 112.900%			
50) Toluene-d8	10.565	98	348548	53.852	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 107.700%			
62) 4-Bromofluorobenzene	12.847	95	132937	56.378	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 112.760%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.124	85	32114	17.192	ug/l	97
3) Chloromethane	2.359	50	38936	18.255	ug/l	97
4) Vinyl Chloride	2.512	62	38348	18.562	ug/l	96
5) Bromomethane	2.959	94	25637	18.813	ug/l	93
6) Chloroethane	3.124	64	24820	16.775	ug/l	91
7) Trichlorofluoromethane	3.501	101	65549	20.375	ug/l	97
8) Diethyl Ether	3.959	74	23136	19.390	ug/l	99
9) 1,1,2-Trichlorotrifluo...	4.371	101	38968	21.139	ug/l	99
10) Methyl Iodide	4.589	142	44622	18.797	ug/l	94
11) Tert butyl alcohol	5.530	59	34117	88.367	ug/l #	87
12) 1,1-Dichloroethene	4.336	96	35338	19.875	ug/l	88
13) Acrolein	4.177	56	44580	100.579	ug/l	98
14) Allyl chloride	5.024	41	55050	17.827	ug/l	96
15) Acrylonitrile	5.712	53	99064	101.607	ug/l	100
16) Acetone	4.424	43	99525	98.948	ug/l	99
17) Carbon Disulfide	4.712	76	94208	16.735	ug/l	99
18) Methyl Acetate	5.030	43	50881	23.209	ug/l	99
19) Methyl tert-butyl Ether	5.795	73	119740	19.953	ug/l	99
20) Methylene Chloride	5.277	84	42221	20.650	ug/l	86
21) trans-1,2-Dichloroethene	5.789	96	37489	20.125	ug/l	94
22) Diisopropyl ether	6.671	45	130862	20.488	ug/l	98
23) Vinyl Acetate	6.606	43	444486	93.823	ug/l	99
24) 1,1-Dichloroethane	6.571	63	74124	20.752	ug/l	99
25) 2-Butanone	7.483	43	134417	98.117	ug/l	99
26) 2,2-Dichloropropane	7.489	77	65625	20.376	ug/l	99
27) cis-1,2-Dichloroethene	7.483	96	44862	19.930	ug/l	99
28) Bromochloromethane	7.812	49	27270	17.111	ug/l	96
29) Tetrahydrofuran	7.841	42	84458	99.900	ug/l	98
30) Chloroform	7.965	83	79062	21.308	ug/l	91
31) Cyclohexane	8.259	56	61230	17.655	ug/l	97
32) 1,1,1-Trichloroethane	8.165	97	69025	20.714	ug/l	96
36) 1,1-Dichloropropene	8.365	75	52411	20.510	ug/l	98
37) Ethyl Acetate	7.559	43	52784	20.135	ug/l	99
38) Carbon Tetrachloride	8.359	117	59224	21.128	ug/l	99
39) Methylcyclohexane	9.600	83	53950	18.970	ug/l	100
40) Benzene	8.606	78	171367	21.524	ug/l	97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102824\
Data File : VN084532.D
Acq On : 28 Oct 2024 12:18
Operator : JC\MD
Sample : VN1028WBS01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 28 14:14:28 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.M
Quant Title : SW846 8260
QLast Update : Tue Oct 01 07:11:01 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VN1028WBS01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 10/29/2024
Supervised By :Semsettin Yesilyurt 10/29/2024

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.777	41	27383	19.240	ug/l		95
42) 1,2-Dichloroethane	8.671	62	57759	21.400	ug/l		99
43) Isopropyl Acetate	8.688	43	92418	17.998	ug/l		99
44) Trichloroethene	9.347	130	39058	21.005	ug/l		99
45) 1,2-Dichloropropane	9.618	63	41968	22.283	ug/l		98
46) Dibromomethane	9.706	93	29527	23.232	ug/l		100
47) Bromodichloromethane	9.888	83	61153	21.657	ug/l		98
48) Methyl methacrylate	9.677	41	39957	19.548	ug/l		100
49) 1,4-Dioxane	9.694	88	15204	404.028	ug/l		97
51) 4-Methyl-2-Pentanone	10.441	43	270071	108.219	ug/l		99
52) Toluene	10.624	92	105264	21.682	ug/l		99
53) t-1,3-Dichloropropene	10.835	75	59595	20.704	ug/l		98
54) cis-1,3-Dichloropropene	10.312	75	64963	20.983	ug/l		97
55) 1,1,2-Trichloroethane	11.012	97	39178	22.510	ug/l		94
56) Ethyl methacrylate	10.871	69	58496	20.426	ug/l		98
57) 1,3-Dichloropropane	11.159	76	68464	22.014	ug/l		98
58) 2-Chloroethyl Vinyl ether	10.159	63	130997	98.604	ug/l		97
59) 2-Hexanone	11.194	43	198387	106.359	ug/l		98
60) Dibromochloromethane	11.359	129	46083	22.409	ug/l		97
61) 1,2-Dibromoethane	11.471	107	39773	21.992	ug/l		99
64) Tetrachloroethene	11.100	164	36325	21.772	ug/l		97
65) Chlorobenzene	11.888	112	109772	20.668	ug/l		98
66) 1,1,1,2-Tetrachloroethane	11.959	131	39484	21.583	ug/l		99
67) Ethyl Benzene	11.959	91	188566	20.076	ug/l		99
68) m/p-Xylenes	12.071	106	146769	42.242	ug/l		100
69) o-Xylene	12.394	106	68929	20.969	ug/l		99
70) Styrene	12.412	104	119311	21.428	ug/l		98
71) Bromoform	12.576	173	29779	22.110	ug/l	#	99
73) Isopropylbenzene	12.694	105	174051	18.880	ug/l		100
74) N-amyl acetate	12.494	43	72933	17.471	ug/l		98
75) 1,1,2,2-Tetrachloroethane	12.935	83	56742	20.470	ug/l		100
76) 1,2,3-Trichloropropane	12.988	75	44770m	18.153	ug/l		
77) Bromobenzene	12.976	156	45153	20.306	ug/l		95
78) n-propylbenzene	13.035	91	210273	19.687	ug/l		99
79) 2-Chlorotoluene	13.123	91	131454	19.288	ug/l		99
80) 1,3,5-Trimethylbenzene	13.171	105	151668	20.169	ug/l		97
81) trans-1,4-Dichloro-2-b...	12.735	75	19152m	18.617	ug/l		
82) 4-Chlorotoluene	13.218	91	135824	19.797	ug/l		100
83) tert-Butylbenzene	13.435	119	120577	18.041	ug/l		96
84) 1,2,4-Trimethylbenzene	13.482	105	156050	20.600	ug/l		98
85) sec-Butylbenzene	13.612	105	175698	19.700	ug/l		99
86) p-Isopropyltoluene	13.729	119	141559	19.194	ug/l		98
87) 1,3-Dichlorobenzene	13.729	146	81769	19.602	ug/l		99
88) 1,4-Dichlorobenzene	13.812	146	82250	19.525	ug/l		99
89) n-Butylbenzene	14.053	91	121202	18.124	ug/l		99
90) Hexachloroethane	14.329	117	27906	18.641	ug/l		100
91) 1,2-Dichlorobenzene	14.106	146	79959	19.548	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	14.717	75	10597	18.526	ug/l		97
93) 1,2,4-Trichlorobenzene	15.388	180	38140	18.931	ug/l		98
94) Hexachlorobutadiene	15.500	225	18784	18.695	ug/l		97
95) Naphthalene	15.641	128	111821	16.742	ug/l		99
96) 1,2,3-Trichlorobenzene	15.835	180	37173	18.432	ug/l		99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102824\
Data File : VN084532.D
Acq On : 28 Oct 2024 12:18
Operator : JC\MD
Sample : VN1028WBS01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 28 14:14:28 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.M
Quant Title : SW846 8260
QLast Update : Tue Oct 01 07:11:01 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VN1028WBS01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 10/29/2024
Supervised By :Semsettin Yesilyurt 10/29/2024

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

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

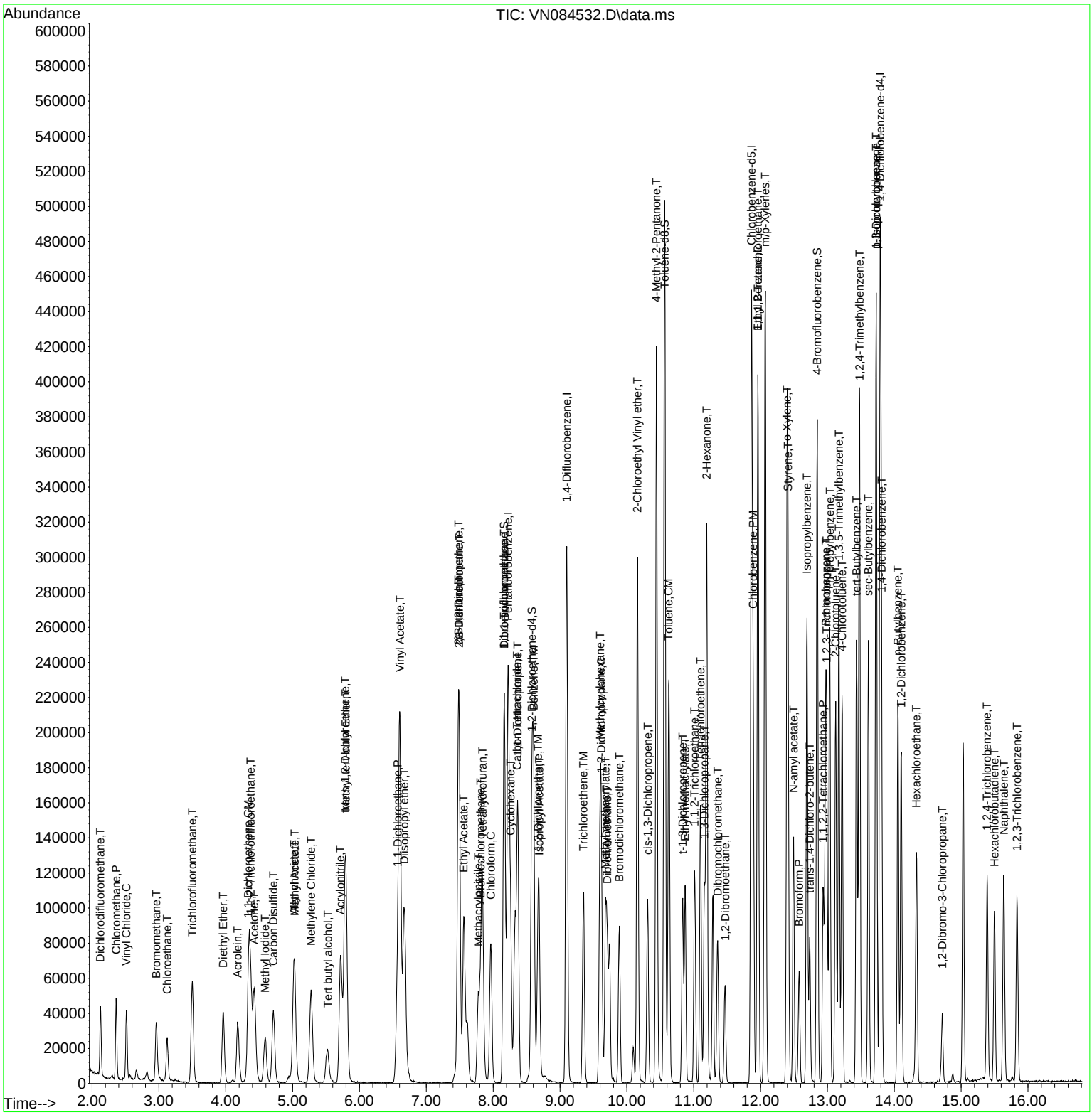
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102824\
Data File : VN084532.D
Acq On : 28 Oct 2024 12:18
Operator : JC\MD
Sample : VN1028WBS01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 28 14:14:28 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.M
Quant Title : SW846 8260
QLast Update : Tue Oct 01 07:11:01 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VN1028WBS01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 10/29/2024
Supervised By :Semsettin Yesilyurt 10/29/2024



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

Report of Analysis

Client:	Garden State Laboratories, Inc.	Date Collected:	
Project:	Waste Water 2024	Date Received:	
Client Sample ID:	VN1025WBSD02	SDG No.:	P4528
Lab Sample ID:	VN1025WBSD02	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
VN084510.D	1		10/25/24 12:51	VN102524

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	14.4		0.21	1.00	ug/L
74-87-3	Chloromethane	15.3		0.35	1.00	ug/L
75-01-4	Vinyl Chloride	16.5		0.34	1.00	ug/L
74-83-9	Bromomethane	16.3		1.40	5.00	ug/L
75-00-3	Chloroethane	15.4		0.56	1.00	ug/L
75-69-4	Trichlorofluoromethane	18.2		0.34	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	18.2		0.25	1.00	ug/L
75-35-4	1,1-Dichloroethene	18.2		0.26	1.00	ug/L
67-64-1	Acetone	97.3		1.40	5.00	ug/L
75-15-0	Carbon Disulfide	15.2		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	22.1		0.60	1.00	ug/L
75-09-2	Methylene Chloride	19.3		0.32	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	18.8		0.25	1.00	ug/L
75-34-3	1,1-Dichloroethane	19.8		0.23	1.00	ug/L
110-82-7	Cyclohexane	16.7		1.60	5.00	ug/L
78-93-3	2-Butanone	110		1.30	5.00	ug/L
56-23-5	Carbon Tetrachloride	19.2		0.25	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	19.5		0.25	1.00	ug/L
74-97-5	Bromochloromethane	21.7		0.18	1.00	ug/L
67-66-3	Chloroform	20.5		0.26	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	19.9		0.19	1.00	ug/L
108-87-2	Methylcyclohexane	17.2		0.19	1.00	ug/L
71-43-2	Benzene	19.3		0.16	1.00	ug/L
107-06-2	1,2-Dichloroethane	19.9		0.24	1.00	ug/L
79-01-6	Trichloroethene	19.4		0.32	1.00	ug/L
78-87-5	1,2-Dichloropropane	20.5		0.19	1.00	ug/L
75-27-4	Bromodichloromethane	20.3		0.24	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	110		0.75	5.00	ug/L
108-88-3	Toluene	19.8		0.18	1.00	ug/L

Raw Data: **VN084510.D**

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

Report of Analysis

Client:	Garden State Laboratories, Inc.	Date Collected:	
Project:	Waste Water 2024	Date Received:	
Client Sample ID:	VN1025WBSD02	SDG No.:	P4528
Lab Sample ID:	VN1025WBSD02	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
VN084510.D	1		10/25/24 12:51	VN102524

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	19.8		0.21	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	20.3		0.18	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	22.2		0.21	1.00	ug/L
591-78-6	2-Hexanone	110		1.10	5.00	ug/L
124-48-1	Dibromochloromethane	21.9		0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	21.0		0.16	1.00	ug/L
127-18-4	Tetrachloroethene	19.3		0.25	1.00	ug/L
108-90-7	Chlorobenzene	19.5		0.13	1.00	ug/L
100-41-4	Ethyl Benzene	18.7		0.16	1.00	ug/L
179601-23-1	m/p-Xylenes	38.9		0.31	2.00	ug/L
95-47-6	o-Xylene	20.2		0.14	1.00	ug/L
100-42-5	Styrene	20.1		0.16	1.00	ug/L
75-25-2	Bromoform	21.6		0.21	1.00	ug/L
98-82-8	Isopropylbenzene	18.6		0.13	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	21.6		0.27	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	19.4		0.24	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	19.0		0.27	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	18.7		0.19	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	20.1		0.46	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	18.6		0.42	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	18.4		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	52.8		75 - 124	106%	SPK: 50
2037-26-5	Toluene-d8	50.4		86 - 113	101%	SPK: 50
460-00-4	4-Bromofluorobenzene	50.8		77 - 121	102%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	162000	8.224			
540-36-3	1,4-Difluorobenzene	284000	9.1			
3114-55-4	Chlorobenzene-d5	253000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	123000	13.788			

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

Report of Analysis

Client:	Garden State Laboratories, Inc.	Date Collected:	
Project:	Waste Water 2024	Date Received:	
Client Sample ID:	VN1025WBSD02	SDG No.:	P4528
Lab Sample ID:	VN1025WBSD02	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
VN084510.D	1		10/25/24 12:51	VN102524

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\VN102524\
Data File : VN084510.D
Acq On : 25 Oct 2024 12:51
Operator : JC\MD
Sample : VN1025WBSD02
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 25 23:31:29 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.M
Quant Title : SW846 8260
QLast Update : Tue Oct 01 07:11:01 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VN1025WBSD02

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 10/28/2024
Supervised By :Mahesh Dadoda 10/28/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.224	168	162151	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	284141	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	253498	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	122654	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	123044	51.179	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 102.360%			
35) Dibromofluoromethane	8.165	113	98845	52.767	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 105.540%			
50) Toluene-d8	10.565	98	347032	50.354	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 100.700%			
62) 4-Bromofluorobenzene	12.847	95	127582	50.814	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 101.620%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.124	85	27702	14.443	ug/l	92
3) Chloromethane	2.359	50	33503	15.298	ug/l	100
4) Vinyl Chloride	2.512	62	34913	16.458	ug/l	96
5) Bromomethane	2.953	94	22784	16.283	ug/l	96
6) Chloroethane	3.118	64	23430	15.422	ug/l	93
7) Trichlorofluoromethane	3.495	101	60176	18.217	ug/l	99
8) Diethyl Ether	3.959	74	23446	19.137	ug/l	97
9) 1,1,2-Trichlorotrifluo...	4.377	101	34521	18.238	ug/l	98
10) Methyl Iodide	4.589	142	44667	18.325	ug/l	95
11) Tert butyl alcohol	5.530	59	43341	109.328	ug/l	98
12) 1,1-Dichloroethene	4.342	96	33169	18.168	ug/l	96
13) Acrolein	4.177	56	50375	110.688	ug/l	98
14) Allyl chloride	5.024	41	61557	19.414	ug/l	89
15) Acrylonitrile	5.724	53	107702	107.584	ug/l	98
16) Acetone	4.424	43	100467	97.277	ug/l	94
17) Carbon Disulfide	4.712	76	87765	15.183	ug/l	100
18) Methyl Acetate	5.024	43	49668	22.064	ug/l	100
19) Methyl tert-butyl Ether	5.794	73	124028	20.128	ug/l	99
20) Methylene Chloride	5.277	84	40509	19.295	ug/l	88
21) trans-1,2-Dichloroethene	5.789	96	35953	18.797	ug/l	93
22) Diisopropyl ether	6.671	45	130132	19.842	ug/l	98
23) Vinyl Acetate	6.600	43	486968	100.108	ug/l	98
24) 1,1-Dichloroethane	6.565	63	72538	19.778	ug/l	95
25) 2-Butanone	7.483	43	149818	106.505	ug/l	98
26) 2,2-Dichloropropane	7.488	77	60348	18.249	ug/l	96
27) cis-1,2-Dichloroethene	7.488	96	44975	19.458	ug/l	99
28) Bromochloromethane	7.806	49	35583	21.744	ug/l	99
29) Tetrahydrofuran	7.841	42	98433	113.391	ug/l	100
30) Chloroform	7.965	83	78081	20.495	ug/l	100
31) Cyclohexane	8.253	56	59311	16.655	ug/l	94
32) 1,1,1-Trichloroethane	8.165	97	67945	19.858	ug/l	95
36) 1,1-Dichloropropene	8.371	75	50650	18.615	ug/l	99
37) Ethyl Acetate	7.559	43	58801	21.065	ug/l	98
38) Carbon Tetrachloride	8.359	117	57292	19.195	ug/l	94
39) Methylcyclohexane	9.600	83	52067	17.193	ug/l	100
40) Benzene	8.606	78	163677	19.307	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102524\
Data File : VN084510.D
Acq On : 25 Oct 2024 12:51
Operator : JC\MD
Sample : VN1025WBSD02
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 25 23:31:29 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.M
Quant Title : SW846 8260
QLast Update : Tue Oct 01 07:11:01 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VN1025WBSD02

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 10/28/2024
Supervised By :Mahesh Dadoda 10/28/2024

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.782	41	31915	21.060	ug/l		97
42) 1,2-Dichloroethane	8.671	62	57279	19.930	ug/l		99
43) Isopropyl Acetate	8.688	43	101581	18.579	ug/l		99
44) Trichloroethene	9.353	130	38469	19.429	ug/l		96
45) 1,2-Dichloropropane	9.624	63	41137	20.513	ug/l		99
46) Dibromomethane	9.712	93	28838	21.308	ug/l		96
47) Bromodichloromethane	9.888	83	61089	20.317	ug/l		97
48) Methyl methacrylate	9.676	41	45366	20.843	ug/l		96
49) 1,4-Dioxane	9.694	88	18714	467.034	ug/l	#	82
51) 4-Methyl-2-Pentanone	10.447	43	304072	114.427	ug/l		99
52) Toluene	10.629	92	102464	19.820	ug/l		99
53) t-1,3-Dichloropropene	10.835	75	60576	19.764	ug/l		98
54) cis-1,3-Dichloropropene	10.312	75	66864	20.282	ug/l		97
55) 1,1,2-Trichloroethane	11.018	97	41185	22.223	ug/l		95
56) Ethyl methacrylate	10.871	69	63862	20.942	ug/l		97
57) 1,3-Dichloropropane	11.159	76	69064	20.856	ug/l		98
58) 2-Chloroethyl Vinyl ether	10.159	63	147841	104.510	ug/l		98
59) 2-Hexanone	11.194	43	223187	112.373	ug/l		99
60) Dibromochloromethane	11.359	129	47945	21.896	ug/l		99
61) 1,2-Dibromoethane	11.470	107	40386	20.972	ug/l		99
64) Tetrachloroethene	11.106	164	33990	19.251	ug/l		96
65) Chlorobenzene	11.888	112	109571	19.494	ug/l		98
66) 1,1,1,2-Tetrachloroethane	11.959	131	40038	20.681	ug/l		98
67) Ethyl Benzene	11.965	91	185831	18.695	ug/l		100
68) m/p-Xylenes	12.070	106	143079	38.913	ug/l		99
69) o-Xylene	12.400	106	70235	20.190	ug/l		96
70) Styrene	12.412	104	118401	20.094	ug/l		98
71) Bromoform	12.576	173	30794	21.605	ug/l	#	96
73) Isopropylbenzene	12.694	105	174284	18.621	ug/l		98
74) N-amyl acetate	12.494	43	83628	19.731	ug/l		98
75) 1,1,2,2-Tetrachloroethane	12.935	83	60911	21.643	ug/l		99
76) 1,2,3-Trichloropropane	12.994	75	50488m	20.163	ug/l		
77) Bromobenzene	12.982	156	44002	19.490	ug/l		98
78) n-propylbenzene	13.035	91	207427	19.128	ug/l		98
79) 2-Chlorotoluene	13.123	91	132731	19.182	ug/l		100
80) 1,3,5-Trimethylbenzene	13.170	105	148351	19.431	ug/l		99
81) trans-1,4-Dichloro-2-b...	12.735	75	20076	19.222	ug/l		91
82) 4-Chlorotoluene	13.223	91	132262	18.987	ug/l		99
83) tert-Butylbenzene	13.435	119	124439	18.338	ug/l		98
84) 1,2,4-Trimethylbenzene	13.482	105	150896	19.619	ug/l		99
85) sec-Butylbenzene	13.617	105	172818	19.085	ug/l		98
86) p-Isopropyltoluene	13.729	119	142997	19.097	ug/l		100
87) 1,3-Dichlorobenzene	13.735	146	82270	19.425	ug/l		98
88) 1,4-Dichlorobenzene	13.812	146	81409	19.034	ug/l		99
89) n-Butylbenzene	14.053	91	118581	17.465	ug/l		99
90) Hexachloroethane	14.335	117	27303	17.964	ug/l		96
91) 1,2-Dichlorobenzene	14.106	146	77829	18.741	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	14.717	75	11659	20.075	ug/l		98
93) 1,2,4-Trichlorobenzene	15.394	180	38130	18.640	ug/l		99
94) Hexachlorobutadiene	15.500	225	16132	15.814	ug/l		95
95) Naphthalene	15.641	128	122723	18.097	ug/l		99
96) 1,2,3-Trichlorobenzene	15.841	180	37685	18.405	ug/l		98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102524\
Data File : VN084510.D
Acq On : 25 Oct 2024 12:51
Operator : JC\MD
Sample : VN1025WBSD02
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 25 23:31:29 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.M
Quant Title : SW846 8260
QLast Update : Tue Oct 01 07:11:01 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VN1025WBSD02

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 10/28/2024
Supervised By :Mahesh Dadoda 10/28/2024

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

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

Sample Results: **VN084510.D**

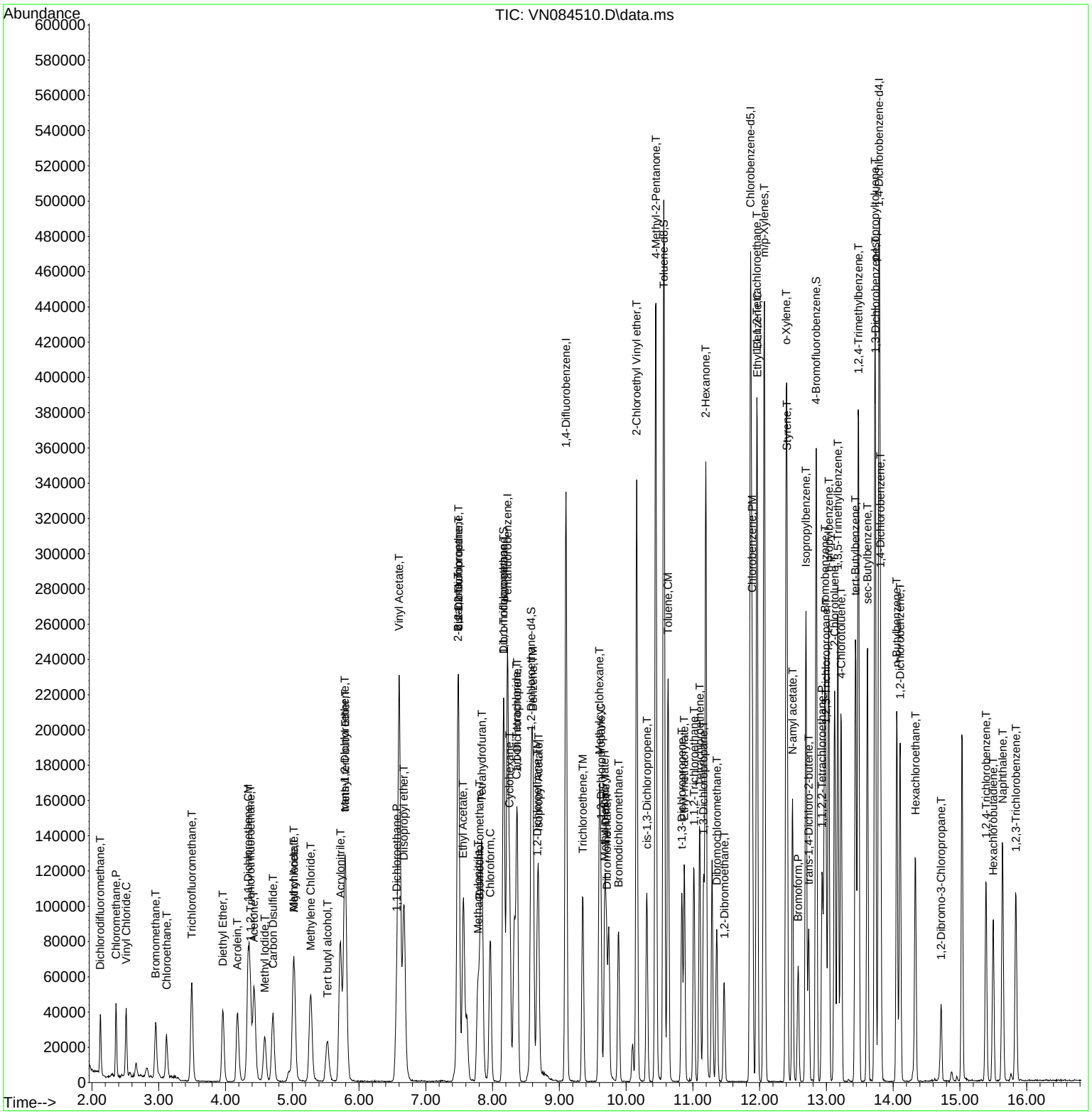
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102524\
Data File : VN084510.D
Acq On : 25 Oct 2024 12:51
Operator : JC\MD
Sample : VN1025WBSD02
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 25 23:31:29 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.M
Quant Title : SW846 8260
QLast Update : Tue Oct 01 07:11:01 2024
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VN1025WBSD02

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 10/28/2024
Supervised By :Mahesh Dadoda 10/28/2024



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

Manual Integration Report

Sequence:	vn093024	Instrument	MSVOA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC100	VN084213.D	1,2,3-Trichloropropane	JOHN	10/1/2024 9:36:48 AM	MMDadoda	10/1/2024 5:34:17 PM	Peak Integrated by Software
VSTDICCC050	VN084214.D	1,2,3-Trichloropropane	JOHN	10/1/2024 9:36:52 AM	MMDadoda	10/1/2024 5:34:19 PM	Peak Integrated by Software
VSTDICC020	VN084215.D	1,2,3-Trichloropropane	JOHN	10/1/2024 9:36:57 AM	MMDadoda	10/1/2024 5:34:21 PM	Peak Integrated by Software
VSTDICC010	VN084216.D	1,2,3-Trichloropropane	JOHN	10/1/2024 9:37:06 AM	MMDadoda	10/1/2024 5:34:22 PM	Peak Integrated by Software
VSTDICC005	VN084217.D	1,1,2-Trichlorotrifluoroethane	JOHN	10/1/2024 9:37:11 AM	MMDadoda	10/1/2024 5:34:24 PM	Peak Integrated by Software
VSTDICC005	VN084217.D	1,2,3-Trichloropropane	JOHN	10/1/2024 9:37:11 AM	MMDadoda	10/1/2024 5:34:24 PM	Peak Integrated by Software
VSTDICC005	VN084217.D	Isopropyl Acetate	JOHN	10/1/2024 9:37:11 AM	MMDadoda	10/1/2024 5:34:24 PM	Peak Integrated by Software
VSTDICC005	VN084217.D	trans-1,2-Dichloroethene	JOHN	10/1/2024 9:37:11 AM	MMDadoda	10/1/2024 5:34:24 PM	Peak Integrated by Software
VSTDICC005	VN084217.D	Vinyl Acetate	JOHN	10/1/2024 9:37:11 AM	MMDadoda	10/1/2024 5:34:24 PM	Peak Integrated by Software
VSTDICC001	VN084218.D	1,2,3-Trichloropropane	JOHN	10/1/2024 9:37:57 AM	MMDadoda	10/1/2024 5:34:25 PM	Peak Integrated by Software
VSTDICC001	VN084218.D	1,4-Dichlorobenzene	JOHN	10/1/2024 9:37:57 AM	MMDadoda	10/1/2024 5:34:25 PM	Peak Integrated by Software
VSTDICC001	VN084218.D	Allyl chloride	JOHN	10/1/2024 9:37:57 AM	MMDadoda	10/1/2024 5:34:25 PM	Peak Integrated by Software
VSTDICC001	VN084218.D	Isopropyl Acetate	JOHN	10/1/2024 9:37:57 AM	MMDadoda	10/1/2024 5:34:25 PM	Peak Integrated by Software

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

Manual Integration Report

Sequence:	vn093024	Instrument	MSVOA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC001	VN084218.D	Vinyl Acetate	JOHN	10/1/2024 9:37:57 AM	MMDadoda	10/1/2024 5:34:25 PM	Peak Integrated by Software
VSTDICV050	VN084220.D	1,2,3-Trichloropropane	JOHN	10/1/2024 9:38:01 AM	MMDadoda	10/1/2024 5:34:27 PM	Peak Integrated by Software
VSTDCCC050	VN084229.D	1,2,3-Trichloropropane	JOHN	10/1/2024 9:38:17 AM	MMDadoda	10/1/2024 5:34:32 PM	Peak Integrated by Software

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Manual Integration Report

Sequence:	vn102524	Instrument	MSVOA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC050	VN084503.D	1,2,3-Trichloropropane	SAM	10/28/2024 9:56:55 AM	MMDadoda	10/28/2024 2:07:17 PM	Peak Integrated by Software
VSTDCCC050	VN084503.D	trans-1,4-Dichloro-2-but ene	SAM	10/28/2024 9:56:55 AM	MMDadoda	10/28/2024 2:07:17 PM	Peak Integrated by Software
VSTDCCC020	VN084504.D	1,2,3-Trichloropropane	SAM	10/28/2024 9:57:01 AM	MMDadoda	10/28/2024 2:07:20 PM	Peak Integrated by Software
VSTDCCC020	VN084504.D	Isopropyl Acetate	SAM	10/28/2024 9:57:01 AM	MMDadoda	10/28/2024 2:07:20 PM	Peak Integrated by Software
VN1025WBS02	VN084509.D	1,2,3-Trichloropropane	SAM	10/28/2024 9:57:06 AM	MMDadoda	10/28/2024 2:07:25 PM	Peak Integrated by Software
VN1025WBS02	VN084509.D	trans-1,4-Dichloro-2-but ene	SAM	10/28/2024 9:57:06 AM	MMDadoda	10/28/2024 2:07:25 PM	Peak Integrated by Software
VN1025WBSD0 2	VN084510.D	1,2,3-Trichloropropane	SAM	10/28/2024 9:57:12 AM	MMDadoda	10/28/2024 2:07:27 PM	Peak Integrated by Software
VSTDCCC050	VN084526.D	1,2,3-Trichloropropane	SAM	10/28/2024 9:57:39 AM	MMDadoda	10/28/2024 2:07:32 PM	Peak Integrated by Software
VSTDCCC020	VN084527.D	1,2,3-Trichloropropane	SAM	10/28/2024 9:57:44 AM	MMDadoda	10/28/2024 2:07:34 PM	Peak Integrated by Software

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

Manual Integration Report

Sequence:	vn102824	Instrument	MSVOA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC050	VN084529.D	1,2,3-Trichloropropane	MMDadoda	10/29/2024 12:18:28 PM	SAM	10/29/2024 12:20:37 PM	Peak Integrated by Software
VN1028WBS01	VN084532.D	1,2,3-Trichloropropane	MMDadoda	10/29/2024 12:18:30 PM	SAM	10/29/2024 12:20:38 PM	Peak Integrated by Software
VN1028WBS01	VN084532.D	trans-1,4-Dichloro-2-butene	MMDadoda	10/29/2024 12:18:30 PM	SAM	10/29/2024 12:20:38 PM	Peak Integrated by Software
VSTDCCC050	VN084550.D	1,2,3-Trichloropropane	MMDadoda	10/29/2024 12:18:41 PM	SAM	10/29/2024 12:20:51 PM	Peak Integrated by Software
VSTDCCC050	VN084550.D	Isopropyl Acetate	MMDadoda	10/29/2024 12:18:41 PM	SAM	10/29/2024 12:20:51 PM	Peak Integrated by Software

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

Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QCBatch ID # VN093024

Review By	John Carlone	Review On	10/1/2024 9:40:01 AM		
Supervise By	Mahesh Dadoda	Supervise On	10/1/2024 5:34:39 PM		
SubDirectory	VN093024	HP Acquire Method		HP Processing Method	82N093024W.M

STD. NAME	STD REF.#
Tune/Reschk	VP130570
Initial Calibration Stds	VP130580,VP130582,VP130583,VP130584,VP130585,VP130586
CCC	VP130571,VP130572
Internal Standard/PEM	
ICV/I.BLK	VP130587
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VN084211.D	30 Sep 2024 09:24	JC\MD	Ok
2	VSTDCCC050	VN084212.D	30 Sep 2024 11:45	JC\MD	Not Ok
3	VSTDICC100	VN084213.D	30 Sep 2024 12:25	JC\MD	Ok,M
4	VSTDICCC050	VN084214.D	30 Sep 2024 12:49	JC\MD	Ok,M
5	VSTDICC020	VN084215.D	30 Sep 2024 13:13	JC\MD	Ok,M
6	VSTDICC010	VN084216.D	30 Sep 2024 13:37	JC\MD	Ok,M
7	VSTDICC005	VN084217.D	30 Sep 2024 14:00	JC\MD	Ok,M
8	VSTDICC001	VN084218.D	30 Sep 2024 14:48	JC\MD	Ok,M
9	IBLK	VN084219.D	30 Sep 2024 15:12	JC\MD	Ok
10	VSTDICV050	VN084220.D	30 Sep 2024 15:36	JC\MD	Ok,M
11	VN0930MBL01	VN084221.D	30 Sep 2024 16:11	JC\MD	Ok
12	VN0930WBL01	VN084222.D	30 Sep 2024 16:35	JC\MD	Ok
13	VN0930WBS01	VN084223.D	30 Sep 2024 17:42	JC\MD	Ok,M
14	VN0930WBSD01	VN084224.D	30 Sep 2024 18:06	JC\MD	Ok,M
15	P4116-24	VN084225.D	30 Sep 2024 18:30	JC\MD	Dilution
16	P4116-25	VN084226.D	30 Sep 2024 18:54	JC\MD	Dilution
17	P4116-26	VN084227.D	30 Sep 2024 19:18	JC\MD	Dilution
18	P4116-27	VN084228.D	30 Sep 2024 19:42	JC\MD	Dilution
19	VSTDCCC050	VN084229.D	30 Sep 2024 20:06	JC\MD	Ok,M

M : Manual Integration

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Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QCBatch ID # VN102524

Review By	Mahesh Dadoda	Review On	10/28/2024 2:07:54 PM				
Supervise By	Semsettin Yesilyurt	Supervise On	10/28/2024 2:09:34 PM				
SubDirectory	VN102524	HP Acquire Method	MSVOA_N		HP Processing Method	82n093024w.m	

STD. NAME	STD REF.#
Tune/Reschk	VP131110,VP131122
Initial Calibration Stds	
CCC	VP131111,VP131112,VP131123,VP131124
Internal Standard/PEM	VP128298
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VN084502.D	25 Oct 2024 08:21	JC\MD	Ok
2	VSTDCCC050	VN084503.D	25 Oct 2024 08:59	JC\MD	Ok,M
3	VSTDCCC020	VN084504.D	25 Oct 2024 10:04	JC\MD	Ok,M
4	VN1025WBS01	VN084505.D	25 Oct 2024 10:40	JC\MD	Ok,M
5	VN1025WBSD01	VN084506.D	25 Oct 2024 11:04	JC\MD	Ok,M
6	VN1025WBL01	VN084507.D	25 Oct 2024 11:27	JC\MD	Ok
7	VN1025WBL02	VN084508.D	25 Oct 2024 11:51	JC\MD	Ok
8	VN1025WBS02	VN084509.D	25 Oct 2024 12:27	JC\MD	Ok,M
9	VN1025WBSD02	VN084510.D	25 Oct 2024 12:51	JC\MD	Ok,M
10	P4528-02	VN084511.D	25 Oct 2024 13:15	JC\MD	Ok,M
11	P4549-01	VN084512.D	25 Oct 2024 13:39	JC\MD	Ok
12	P4528-01	VN084513.D	25 Oct 2024 14:03	JC\MD	Ok
13	VIBLK	VN084514.D	25 Oct 2024 14:27	JC\MD	Ok
14	P4549-03	VN084515.D	25 Oct 2024 14:51	JC\MD	Ok
15	P4549-02	VN084516.D	25 Oct 2024 15:15	JC\MD	Ok
16	P4549-04	VN084517.D	25 Oct 2024 15:39	JC\MD	Ok
17	P4554-01	VN084518.D	25 Oct 2024 16:03	JC\MD	Ok,M
18	P4550-01	VN084519.D	25 Oct 2024 16:27	JC\MD	ReRun
19	P4528-02	VN084520.D	25 Oct 2024 16:50	JC\MD	Ok
20	P4528-01	VN084521.D	25 Oct 2024 17:14	JC\MD	ReRun
21	P4550-02	VN084522.D	25 Oct 2024 17:38	JC\MD	ReRun

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Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QCBatch ID # VN102524

Review By	Mahesh Dadoda	Review On	10/28/2024 2:07:54 PM				
Supervise By	Semsettin Yesilyurt	Supervise On	10/28/2024 2:09:34 PM				
SubDirectory	VN102524	HP Acquire Method	MSVOA_N	HP Processing Method	82n093024w.m		

STD. NAME	STD REF.#
Tune/Reschk	VP131110,VP131122
Initial Calibration Stds	
CCC	VP131111,VP131112,VP131123,VP131124
Internal Standard/PEM	VP128298
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	P4550-03	VN084523.D	25 Oct 2024 18:02	JC\MD	Ok
23	P4550-04	VN084524.D	25 Oct 2024 18:26	JC\MD	Ok
24	P4550-05	VN084525.D	25 Oct 2024 18:49	JC\MD	ReRun
25	VSTDCCC050	VN084526.D	25 Oct 2024 19:13	JC\MD	Ok,M
26	VSTDCCC020	VN084527.D	25 Oct 2024 19:37	JC\MD	Ok,M

M : Manual Integration

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Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QCBatch ID # VN102824

Review By	Mahesh Dadoda	Review On	10/29/2024 12:18:58 PM				
Supervise By	Semsettin Yesilyurt	Supervise On	10/29/2024 12:21:20 PM				
SubDirectory	VN102824	HP Acquire Method	MSVOA_N		HP Processing Method	82n093024w.m	

STD. NAME	STD REF.#
Tune/Reschk	VP131138
Initial Calibration Stds	
CCC	VP131140,VP131141
Internal Standard/PEM	VP128298
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VN084528.D	28 Oct 2024 09:18	JC\MD	Ok
2	VSTDCCC050	VN084529.D	28 Oct 2024 10:05	JC\MD	Ok,M
3	VN1028MBL01	VN084530.D	28 Oct 2024 10:40	JC\MD	Ok
4	VN1028WBL01	VN084531.D	28 Oct 2024 11:42	JC\MD	Ok
5	VN1028WBS01	VN084532.D	28 Oct 2024 12:18	JC\MD	Ok,M
6	VN1028WBSD01	VN084533.D	28 Oct 2024 12:42	JC\MD	Ok,M
7	VIBLK	VN084534.D	28 Oct 2024 13:06	JC\MD	Ok
8	P4550-09	VN084535.D	28 Oct 2024 13:30	JC\MD	Ok
9	P4550-10	VN084536.D	28 Oct 2024 13:53	JC\MD	Ok
10	P4550-11	VN084537.D	28 Oct 2024 14:17	JC\MD	Ok
11	P4550-12	VN084538.D	28 Oct 2024 14:41	JC\MD	Ok,M
12	P4550-06	VN084539.D	28 Oct 2024 15:05	JC\MD	Ok
13	P4550-07MS	VN084540.D	28 Oct 2024 15:29	JC\MD	Ok,M
14	P4550-08MSD	VN084541.D	28 Oct 2024 15:53	JC\MD	Ok,M
15	VIBLK	VN084542.D	28 Oct 2024 16:17	JC\MD	Ok
16	P4550-01	VN084543.D	28 Oct 2024 16:41	JC\MD	Ok
17	P4550-02	VN084544.D	28 Oct 2024 17:05	JC\MD	Ok
18	P4550-05	VN084545.D	28 Oct 2024 17:29	JC\MD	Ok
19	P4528-01	VN084546.D	28 Oct 2024 17:53	JC\MD	Ok
20	P4545-02	VN084547.D	28 Oct 2024 18:17	JC\MD	Ok
21	P4567-04	VN084548.D	28 Oct 2024 18:41	JC\MD	Ok,M

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Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QCBatch ID # VN102824

Review By	Mahesh Dadoda	Review On	10/29/2024 12:18:58 PM				
Supervise By	Semsettin Yesilyurt	Supervise On	10/29/2024 12:21:20 PM				
SubDirectory	VN102824	HP Acquire Method	MSVOA_N	HP Processing Method	82n093024w.m		

STD. NAME	STD REF.#
Tune/Reschk	VP131138
Initial Calibration Stds	
CCC	VP131140,VP131141
Internal Standard/PEM	VP128298
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	P4567-08	VN084549.D	28 Oct 2024 19:05	JC\MD	Ok,M
23	VSTDCCC050	VN084550.D	28 Oct 2024 21:02	JC\MD	Ok,M

M : Manual Integration

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Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QCBatch ID # VN093024

Review By	John Carlone	Review On	10/1/2024 9:40:01 AM		
Supervise By	Mahesh Dadoda	Supervise On	10/1/2024 5:34:39 PM		
SubDirectory	VN093024	HP Acquire Method		HP Processing Method	82N093024W.M

STD. NAME	STD REF.#
Tune/Reschk	VP130570
Initial Calibration Stds	VP130580,VP130582,VP130583,VP130584,VP130585,VP130586
CCC	VP130571,VP130572
Internal Standard/PEM	
ICV/I.BLK	VP130587
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VN084211.D	30 Sep 2024 09:24		JC\MD	Ok
2	VSTDCCC050	VSTDCCC050	VN084212.D	30 Sep 2024 11:45	Need ICAL	JC\MD	Not Ok
3	VSTDICC100	VSTDICC100	VN084213.D	30 Sep 2024 12:25		JC\MD	Ok,M
4	VSTDICCC050	VSTDICCC050	VN084214.D	30 Sep 2024 12:49		JC\MD	Ok,M
5	VSTDICC020	VSTDICC020	VN084215.D	30 Sep 2024 13:13		JC\MD	Ok,M
6	VSTDICC010	VSTDICC010	VN084216.D	30 Sep 2024 13:37		JC\MD	Ok,M
7	VSTDICC005	VSTDICC005	VN084217.D	30 Sep 2024 14:00		JC\MD	Ok,M
8	VSTDICC001	VSTDICC001	VN084218.D	30 Sep 2024 14:48		JC\MD	Ok,M
9	IBLK	IBLK	VN084219.D	30 Sep 2024 15:12		JC\MD	Ok
10	VSTDICV050	ICVVN093024	VN084220.D	30 Sep 2024 15:36		JC\MD	Ok,M
11	VN0930MBL01	VN0930MBL01	VN084221.D	30 Sep 2024 16:11		JC\MD	Ok
12	VN0930WBL01	VN0930WBL01	VN084222.D	30 Sep 2024 16:35		JC\MD	Ok
13	VN0930WBS01	VN0930WBS01	VN084223.D	30 Sep 2024 17:42		JC\MD	Ok,M
14	VN0930WBSD01	VN0930WBSD01	VN084224.D	30 Sep 2024 18:06		JC\MD	Ok,M
15	P4116-24	RE132D5-20240918	VN084225.D	30 Sep 2024 18:30	vial A pH<2 Need 2x	JC\MD	Dilution
16	P4116-25	RE132D6-20240918	VN084226.D	30 Sep 2024 18:54	vial A pH<2 Need 40X	JC\MD	Dilution
17	P4116-26	RE132D7-20240918	VN084227.D	30 Sep 2024 19:18	vial A pH<2 Need 40X	JC\MD	Dilution
18	P4116-27	DUP05-20240918	VN084228.D	30 Sep 2024 19:42	vial A pH<2 Need 2x	JC\MD	Dilution

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Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QCBatch ID # VN093024

Review By	John Carlone	Review On	10/1/2024 9:40:01 AM		
Supervise By	Mahesh Dadoda	Supervise On	10/1/2024 5:34:39 PM		
SubDirectory	VN093024	HP Acquire Method		HP Processing Method	82N093024W.M

STD. NAME	STD REF.#
Tune/Reschk	VP130570
Initial Calibration Stds	VP130580,VP130582,VP130583,VP130584,VP130585,VP130586
CCC	VP130571,VP130572
Internal Standard/PEM	
ICV/I.BLK	VP130587
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	VSTDCCC050	VSTDCCC050EC	VN084229.D	30 Sep 2024 20:06		JC\MD	Ok,M

M : Manual Integration

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Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QCBatch ID # VN102524

Review By	Mahesh Dadoda	Review On	10/28/2024 2:07:54 PM		
Supervise By	Semsettin Yesilyurt	Supervise On	10/28/2024 2:09:34 PM		
SubDirectory	VN102524	HP Acquire Method	MSVOA_N	HP Processing Method	82n093024w.m

STD. NAME	STD REF.#
Tune/Reschk	VP131110,VP131122
Initial Calibration Stds	
CCC	VP131111,VP131112,VP131123,VP131124
Internal Standard/PEM	VP128298
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VN084502.D	25 Oct 2024 08:21		JC\MD	Ok
2	VSTDCCC050	VSTDCCC050	VN084503.D	25 Oct 2024 08:59	CCC Failed for comp. #02	JC\MD	Ok,M
3	VSTDCCC020	VSTDCCC020	VN084504.D	25 Oct 2024 10:04		JC\MD	Ok,M
4	VN1025WBS01	VN1025WBS01	VN084505.D	25 Oct 2024 10:40		JC\MD	Ok,M
5	VN1025WBSD01	VN1025WBSD01	VN084506.D	25 Oct 2024 11:04		JC\MD	Ok,M
6	VN1025WBL01	VN1025WBL01	VN084507.D	25 Oct 2024 11:27		JC\MD	Ok
7	VN1025WBL02	VN1025WBL02	VN084508.D	25 Oct 2024 11:51	8260	JC\MD	Ok
8	VN1025WBS02	VN1025WBS02	VN084509.D	25 Oct 2024 12:27	8260	JC\MD	Ok,M
9	VN1025WBSD02	VN1025WBSD02	VN084510.D	25 Oct 2024 12:51	8260	JC\MD	Ok,M
10	P4528-02	241023062-05-TRIP-BL	VN084511.D	25 Oct 2024 13:15	pH#5.0 B TB	JC\MD	Ok,M
11	P4549-01	TT-TB-20241024	VN084512.D	25 Oct 2024 13:39	pH#<2 A TB	JC\MD	Ok
12	P4528-01	241023068-02-VOA	VN084513.D	25 Oct 2024 14:03	pH#7.0 B	JC\MD	Ok
13	VIBLK	VIBLK	VN084514.D	25 Oct 2024 14:27		JC\MD	Ok
14	P4549-03	TT-068-IDWGW-20241	VN084515.D	25 Oct 2024 14:51	bad matrix no straight run	JC\MD	Ok
15	P4549-02	TT-067-IDWGW-20241	VN084516.D	25 Oct 2024 15:15	bad matrix no straight run	JC\MD	Ok
16	P4549-04	TT-069-IDWGW-20241	VN084517.D	25 Oct 2024 15:39	bad matrix no straight run	JC\MD	Ok
17	P4554-01	001-WILLETS-PT-BLVD	VN084518.D	25 Oct 2024 16:03	pH#2.0 A	JC\MD	Ok,M
18	P4550-01	BP-VPB-190-TB-20241	VN084519.D	25 Oct 2024 16:27	pH#2.0 A TB;Surrogate fail	JC\MD	ReRun

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Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QCBatch ID # VN102524

Review By	Mahesh Dadoda	Review On	10/28/2024 2:07:54 PM		
Supervise By	Semsettin Yesilyurt	Supervise On	10/28/2024 2:09:34 PM		
SubDirectory	VN102524	HP Acquire Method	MSVOA_N	HP Processing Method	82n093024w.m

STD. NAME	STD REF.#
Tune/Reschk	VP131110,VP131122
Initial Calibration Stds	
CCC	VP131111,VP131112,VP131123,VP131124
Internal Standard/PEM	VP128298
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	P4528-02	241023062-05-TRIP-BL	VN084520.D	25 Oct 2024 16:50	pH#5.0 A TB;CCC Failed for comp. #02,no sample to rerun confirmation.no hit on the sample.	JC\MD	Ok
20	P4528-01	241023068-02-VOA	VN084521.D	25 Oct 2024 17:14	pH#7.0 A CCC Failed for comp. #02	JC\MD	ReRun
21	P4550-02	VPB190-HYD-2024102	VN084522.D	25 Oct 2024 17:38	pH#2.0 A Surrogate fail	JC\MD	ReRun
22	P4550-03	BP-VPB-190-EB-20241	VN084523.D	25 Oct 2024 18:02	pH#2.0 A EB	JC\MD	Ok
23	P4550-04	BP-VPB-190-GW-298-3	VN084524.D	25 Oct 2024 18:26	pH#2.0 A	JC\MD	Ok
24	P4550-05	BP-VPB-190-GW-318-3	VN084525.D	25 Oct 2024 18:49	pH#2.0 A Surrogate fail	JC\MD	ReRun
25	VSTDCCC050	VSTDCCC050EC	VN084526.D	25 Oct 2024 19:13		JC\MD	Ok,M
26	VSTDCCC020	VSTDCCC020EC	VN084527.D	25 Oct 2024 19:37		JC\MD	Ok,M

M : Manual Integration

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Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QCBatch ID # VN102824

Review By	Mahesh Dadoda	Review On	10/29/2024 12:18:58 PM		
Supervise By	Semsettin Yesilyurt	Supervise On	10/29/2024 12:21:20 PM		
SubDirectory	VN102824	HP Acquire Method	MSVOA_N	HP Processing Method	82n093024w.m

STD. NAME	STD REF.#
Tune/Reschk	VP131138
Initial Calibration Stds	
CCC	VP131140,VP131141
Internal Standard/PEM	VP128298
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VN084528.D	28 Oct 2024 09:18		JC\MD	Ok
2	VSTDCCC050	VSTDCCC050	VN084529.D	28 Oct 2024 10:05		JC\MD	Ok,M
3	VN1028MBL01	VN1028MBL01	VN084530.D	28 Oct 2024 10:40		JC\MD	Ok
4	VN1028WBL01	VN1028WBL01	VN084531.D	28 Oct 2024 11:42		JC\MD	Ok
5	VN1028WBS01	VN1028WBS01	VN084532.D	28 Oct 2024 12:18		JC\MD	Ok,M
6	VN1028WBSD01	VN1028WBSD01	VN084533.D	28 Oct 2024 12:42		JC\MD	Ok,M
7	VIBLK	VIBLK	VN084534.D	28 Oct 2024 13:06		JC\MD	Ok
8	P4550-09	BP-VPB-190-GW-358-3	VN084535.D	28 Oct 2024 13:30	pH#2.0 A	JC\MD	Ok
9	P4550-10	BP-VPB-190-GW-378-3	VN084536.D	28 Oct 2024 13:53	pH#2.0 A	JC\MD	Ok
10	P4550-11	BP-VPB-190-GW-398-4	VN084537.D	28 Oct 2024 14:17	pH#2.0 A	JC\MD	Ok
11	P4550-12	BP-VPB-190-GW-418-4	VN084538.D	28 Oct 2024 14:41	pH#2.0 A+B	JC\MD	Ok,M
12	P4550-06	BP-VPB-190-GW-338-3	VN084539.D	28 Oct 2024 15:05	pH#2.0 A	JC\MD	Ok
13	P4550-07MS	BP-VPB-190-GW-338-3	VN084540.D	28 Oct 2024 15:29	pH#2.0 A	JC\MD	Ok,M
14	P4550-08MSD	BP-VPB-190-GW-338-3	VN084541.D	28 Oct 2024 15:53	pH#2.0 A	JC\MD	Ok,M
15	VIBLK	VIBLK	VN084542.D	28 Oct 2024 16:17		JC\MD	Ok
16	P4550-01	BP-VPB-190-TB-20241	VN084543.D	28 Oct 2024 16:41	pH#2.0 B TB	JC\MD	Ok
17	P4550-02	VPB190-HYD-2024102	VN084544.D	28 Oct 2024 17:05	pH#2.0 B	JC\MD	Ok
18	P4550-05	BP-VPB-190-GW-318-3	VN084545.D	28 Oct 2024 17:29	pH#2.0 B	JC\MD	Ok

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Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QCBatch ID # VN102824

Review By	Mahesh Dadoda	Review On	10/29/2024 12:18:58 PM		
Supervise By	Semsettin Yesilyurt	Supervise On	10/29/2024 12:21:20 PM		
SubDirectory	VN102824	HP Acquire Method	MSVOA_N	HP Processing Method	82n093024w.m

STD. NAME	STD REF.#
Tune/Reschk	VP131138
Initial Calibration Stds	
CCC	VP131140,VP131141
Internal Standard/PEM	VP128298
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	P4528-01	241023068-02-VOA	VN084546.D	28 Oct 2024 17:53	pH#7.0 B	JC\MD	Ok
20	P4545-02	VNJ-215	VN084547.D	28 Oct 2024 18:17	pH#5.0 A	JC\MD	Ok
21	P4567-04	WC-1	VN084548.D	28 Oct 2024 18:41	pH#5.0 A	JC\MD	Ok,M
22	P4567-08	WC-2	VN084549.D	28 Oct 2024 19:05	pH#5.0 A	JC\MD	Ok,M
23	VSTDCCC050	VSTDCCC050EC	VN084550.D	28 Oct 2024 21:02		JC\MD	Ok,M

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SHIPPING DOCUMENTS

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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

P4528

FOR 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

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

IMPORTANT: PRINTED NAMES & SIGNATURES ARE REQUIRED

CLIENT INFORMATION (REPORT TO BE SENT TO)

Name: Garden State Laboratories, Inc. Contact/Authorized by: Robert Szot

Mailing Address: 410 Hillside Ave. Phone: 908-688-8900 EXT 129

City/State/Zip: Hilside, NJ. 07205 Email: rszot@gslabs.com

SAMPLE INFORMATION

SAMPLE TYPE: WASTE WATER Pinelands Park

SAMPLE LOCATI ACUA ~~SW LANDFILL~~ LEACHATE TANKS

Grab	Comp	SAMPLE ID	SAMPLE COLLECTION Date	Time	AM	PM	ANALYSIS REQUIRED (Print Legibly) ☐ List attached Total Pages ____	CONTAINER INFORMATION No.	Type*	Size	Pres.*
✓	X	2410230 68-02 VOA 10/24/24	~~10/23/24~~	8:40	X		EPA 8260 TCL LIST + Acrolien & Acrylonitrile	3	V	40mL	A
X		2410230 62-05 Trip blank 10/24/24	—	—			EPA 8260 TCL LIST + Acrolien & Acl	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 FORMA ☒ Standard Report ☐ Other/Specify:

☐ Standard Report + E2 PWS ID#:

SEND TO: Chem Tech

DATE/TIME: 10-24-24 - 9:52 AM

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: ATL16

VOA UNPRESERVED DUE TO EFFERVESCENSE - 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: 10/23/24 15:58
2. Received/Relinquished by (PRINT): C Pena	Signature: C Pena	Date/Time: 10-24-24 9:52 AM

10-24-24 9:52 2.6°C

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 (L-A-B)	L2219
Maine	2024021
Maryland	296
New Hampshire	255423
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	525-24-234-08441
Texas	T104704488

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

LOGIN REPORT/SAMPLE TRANSFER

Order ID : P4528 GARD04
Client Name : Garden State Laboratories, I
Client Contact : Sharon Ercoliani
Invoice Name : Garden State Laboratories, I
Invoice Contact : Sharon Ercoliani

Order Date : 10/24/2024 10:00:00 AM
Project Name : Waste Water 2024
Receive DateTime : 10/24/2024 9:52:00 AM
Purchase Order :

Project Mgr :
Report Type : Level 1
EDD Type : EXCEL NOCLEANUP
Hard Copy Date :
Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
P4528-01	241023068-02-VOA	Water	10/24/2024 22	08:40					
					VOCMS Group1		624.1		10 Bus. Days
					VOCMS Group2		8260-Low		10 Bus. Days
P4528-02	241023062-05-TRIP-BLANK	Water	10/24/2024	~~08:40~~ 12:00					
					VOCMS Group1		624.1		10 Bus. Days
					VOCMS Group2		8260-Low		10 Bus. Days

YG 10/29/24

Relinguished By : CP
Date / Time : 10-24-24 12:30

Received By : Sam
Date / Time : 10/24/24 12:30

Storage Area : VOA Refridgerator Room

R&H 5
~~R&H~~ 4