

DATA PACKAGE

VOLATILE ORGANICS

PROJECT NAME : DOVER

G ENVIRONMENTAL

8 Carriage Ln

Succasunna, NJ - 07876

Phone No: 973-294-1771

ORDER ID : Q2056

ATTENTION : Gary Landis



Laboratory Certification ID # 20012



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Cover Page

Order ID : Q2056

Project ID : Dover

Client : G Environmental

Lab Sample Number

Q2056-01
Q2056-02
Q2056-03
Q2056-04
Q2056-05

Client Sample Number

GVD11
GVD12
GVD13
GVD14
GVD15

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: 5/23/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

CASE NARRATIVE

G Environmental

Project Name: Dover

Project # N/A

Order ID # Q2056

Test Name: VOCMS Group1

A. Number of Samples and Date of Receipt:

5 Solid samples were received on 05/15/2025.

B. Parameters

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

C. Analytical Techniques:

The analysis performed on instrument MSVOA_Y were done using GC column Rxi-624SIL MS 30m, 0.25mm, 1.4 um, Cat. #138 68. The analysis of VOCMS Group1 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 {VY0519SBS01} with File ID: VY022305.D met requirements for all samples except for Bromomethane[160%], Chloroethane[145%], Chloromethane[133%] and Vinyl chloride[134%] are failing high but no positive hit in associate sample therefore no corrective action taken.

The Blank Spike Duplicate for {VY0519SBSD01} with File ID: VY022306.D met requirements for all samples except for Bromomethane[160%], Chloroethane[148%], Chloromethane[134%] and Vinyl chloride[135%] are failing high but no positive hit in associate sample therefore no corrective action taken.

The Blank Spike for {VY0520SBS01} with File ID: VY022331.D met requirements for all samples except for Bromomethane[190%], Chloroethane[175%], Chloromethane[149%] and Vinyl chloride[153%] are failing high but no positive hit in associate sample therefore no corrective action taken.

The Blank Spike for {VY0521SBS01} with File ID: VY022356.D met requirements for all samples except for Bromomethane[186%], Chloroethane[165%],

Chloromethane[135%] and Vinyl chloride[137%] are failing high but no positive hit in associate sample therefore no corrective action taken.

The Blank analysis did not indicate the presence of lab contamination.
The Initial Calibration met the requirements.

The Continuous Calibration File ID VY022303.D met the requirements except for Acetone is failing marginally low therefore no corrective action taken.

The Continuous Calibration File ID VY022329.D met the requirements except for Chloroethane and Vinyl Chloride are failing high but no positive hit in associate sample therefore no corrective action taken.

The Continuous Calibration File ID VY022354.D met the requirements except for Bromomethane, Chloroethane and Vinyl Chloride are failing high but no positive hit in associate sample therefore no corrective action taken and Acetone is failing marginally low therefore no corrective action taken.

The Tuning criteria met requirements.

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.

Trip Blank was not provided with this set of samples.

The soil samples results are based on a dry weight basis.

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 <20% 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 >20% 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_____

DATA REPORTING QUALIFIERS- ORGANIC

For reporting results, the following “Results Qualifiers” are used:

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

APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: Q2056

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 Custody

✓

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: SOHIL JODHANI

Date: 05/23/2025

Hit Summary Sheet
SW-846

SDG No.: Q2056
Client: G Environmental

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID:	GVD11							
Q2056-01	GVD11	SOIL	Toluene	1.50	J	0.73	4.70	ug/Kg
Q2056-01	GVD11	SOIL	m/p-Xylenes	1.30	J	1.20	9.40	ug/Kg
			Total Voc :	2.80				
			Total Concentration:	2.80				
Client ID:	GVD12							
Q2056-02	GVD12	SOIL	m/p-Xylenes	1.30	J	0.99	8.00	ug/Kg
			Total Voc :	1.30				
			Total Concentration:	1.30				
Client ID:	GVD13							
Q2056-03	GVD13	SOIL	Acetone	6.30	J	3.40	18.2	ug/Kg
			Total Voc :	6.30				
			Total Concentration:	6.30				
Client ID:	GVD14							
Q2056-04	GVD14	SOIL	unknown1.812	* 15.7	J	0	0	ug/Kg
			Total Tics :	15.7				
			Total Concentration:	15.7				



SAMPLE DATA

A

B

C

D

E

F

G

H

I

J

Report of Analysis

Client:	G Environmental		Date Collected:	05/15/25	
Project:	Dover		Date Received:	05/15/25	
Client Sample ID:	GVD11		SDG No.:	Q2056	
Lab Sample ID:	Q2056-01		Matrix:	SOIL	
Analytical Method:	8260D		% Solid:	96.1	
Sample Wt/Vol:	5.56	Units: g	Final Vol:	5000	uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group1	
GC Column:	RXI-624	ID : 0.25	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY022326.D	1		05/19/25 18:06	VY051925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
74-87-3	Chloromethane	1.10	UQ	1.10	4.70	ug/Kg
75-01-4	Vinyl Chloride	0.74	UQ	0.74	4.70	ug/Kg
74-83-9	Bromomethane	1.00	UQ	1.00	4.70	ug/Kg
75-00-3	Chloroethane	1.20	UQ	1.20	4.70	ug/Kg
75-65-0	Tert butyl alcohol	12.8	U	12.8	23.4	ug/Kg
75-35-4	1,1-Dichloroethene	0.94	U	0.94	4.70	ug/Kg
67-64-1	Acetone	4.40	U	4.40	23.4	ug/Kg
75-15-0	Carbon Disulfide	0.99	U	0.99	4.70	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.68	U	0.68	4.70	ug/Kg
75-09-2	Methylene Chloride	3.30	U	3.30	9.40	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.80	U	0.80	4.70	ug/Kg
75-34-3	1,1-Dichloroethane	0.75	U	0.75	4.70	ug/Kg
78-93-3	2-Butanone	6.10	U	6.10	23.4	ug/Kg
56-23-5	Carbon Tetrachloride	0.91	U	0.91	4.70	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.70	U	0.70	4.70	ug/Kg
67-66-3	Chloroform	0.79	U	0.79	4.70	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.87	U	0.87	4.70	ug/Kg
71-43-2	Benzene	0.74	U	0.74	4.70	ug/Kg
107-06-2	1,2-Dichloroethane	0.74	U	0.74	4.70	ug/Kg
79-01-6	Trichloroethene	0.76	U	0.76	4.70	ug/Kg
78-87-5	1,2-Dichloropropane	0.85	U	0.85	4.70	ug/Kg
75-27-4	Bromodichloromethane	0.73	U	0.73	4.70	ug/Kg
108-10-1	4-Methyl-2-Pentanone	3.40	U	3.40	23.4	ug/Kg
108-88-3	Toluene	1.50	J	0.73	4.70	ug/Kg
10061-02-6	t-1,3-Dichloropropene	0.61	U	0.61	4.70	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.58	U	0.58	4.70	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.86	U	0.86	4.70	ug/Kg
591-78-6	2-Hexanone	3.50	U	3.50	23.4	ug/Kg
124-48-1	Dibromochloromethane	0.81	U	0.81	4.70	ug/Kg
127-18-4	Tetrachloroethene	0.98	U	0.98	4.70	ug/Kg

Report of Analysis

Client:	G Environmental	Date Collected:	05/15/25
Project:	Dover	Date Received:	05/15/25
Client Sample ID:	GVD11	SDG No.:	Q2056
Lab Sample ID:	Q2056-01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	96.1
Sample Wt/Vol:	5.56 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY022326.D	1		05/19/25 18:06	VY051925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
108-90-7	Chlorobenzene	0.85	U	0.85	4.70	ug/Kg
100-41-4	Ethyl Benzene	0.63	U	0.63	4.70	ug/Kg
179601-23-1	m/p-Xylenes	1.30	J	1.20	9.40	ug/Kg
95-47-6	o-Xylene	0.77	U	0.77	4.70	ug/Kg
100-42-5	Styrene	0.66	U	0.66	4.70	ug/Kg
75-25-2	Bromoform	0.80	U	0.80	4.70	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	1.10	U	1.10	4.70	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	48.4		63 - 155	97%	SPK: 50
1868-53-7	Dibromofluoromethane	49.2		70 - 134	98%	SPK: 50
2037-26-5	Toluene-d8	47.9		74 - 123	96%	SPK: 50
460-00-4	4-Bromofluorobenzene	35.0		38 - 136	70%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	223000	7.707			
540-36-3	1,4-Difluorobenzene	407000	8.61			
3114-55-4	Chlorobenzene-d5	303000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	89900	13.347			

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Report of Analysis

Client:	G Environmental	Date Collected:	05/15/25
Project:	Dover	Date Received:	05/15/25
Client Sample ID:	GVD12	SDG No.:	Q2056
Lab Sample ID:	Q2056-02	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	91.9
Sample Wt/Vol:	6.82 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY022336.D	1		05/20/25 12:38	VY052025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
74-87-3	Chloromethane	0.91	UQ	0.91	4.00	ug/Kg
75-01-4	Vinyl Chloride	0.63	UQ	0.63	4.00	ug/Kg
74-83-9	Bromomethane	0.85	UQ	0.85	4.00	ug/Kg
75-00-3	Chloroethane	1.00	UQ	1.00	4.00	ug/Kg
75-65-0	Tert butyl alcohol	10.9	U	10.9	19.9	ug/Kg
75-35-4	1,1-Dichloroethene	0.80	U	0.80	4.00	ug/Kg
67-64-1	Acetone	3.80	U	3.80	19.9	ug/Kg
75-15-0	Carbon Disulfide	0.85	U	0.85	4.00	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.58	U	0.58	4.00	ug/Kg
75-09-2	Methylene Chloride	2.80	U	2.80	8.00	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.69	U	0.69	4.00	ug/Kg
75-34-3	1,1-Dichloroethane	0.64	U	0.64	4.00	ug/Kg
78-93-3	2-Butanone	5.20	U	5.20	19.9	ug/Kg
56-23-5	Carbon Tetrachloride	0.77	U	0.77	4.00	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.60	U	0.60	4.00	ug/Kg
67-66-3	Chloroform	0.67	U	0.67	4.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.74	U	0.74	4.00	ug/Kg
71-43-2	Benzene	0.63	U	0.63	4.00	ug/Kg
107-06-2	1,2-Dichloroethane	0.63	U	0.63	4.00	ug/Kg
79-01-6	Trichloroethene	0.65	U	0.65	4.00	ug/Kg
78-87-5	1,2-Dichloropropane	0.73	U	0.73	4.00	ug/Kg
75-27-4	Bromodichloromethane	0.62	U	0.62	4.00	ug/Kg
108-10-1	4-Methyl-2-Pentanone	2.90	U	2.90	19.9	ug/Kg
108-88-3	Toluene	0.62	U	0.62	4.00	ug/Kg
10061-02-6	t-1,3-Dichloropropene	0.52	U	0.52	4.00	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.49	U	0.49	4.00	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.73	U	0.73	4.00	ug/Kg
591-78-6	2-Hexanone	2.90	U	2.90	19.9	ug/Kg
124-48-1	Dibromochloromethane	0.69	U	0.69	4.00	ug/Kg
127-18-4	Tetrachloroethene	0.84	U	0.84	4.00	ug/Kg

Report of Analysis

Client:	G Environmental	Date Collected:	05/15/25
Project:	Dover	Date Received:	05/15/25
Client Sample ID:	GVD12	SDG No.:	Q2056
Lab Sample ID:	Q2056-02	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	91.9
Sample Wt/Vol:	6.82 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY022336.D	1		05/20/25 12:38	VY052025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
108-90-7	Chlorobenzene	0.73	U	0.73	4.00	ug/Kg
100-41-4	Ethyl Benzene	0.53	U	0.53	4.00	ug/Kg
179601-23-1	m/p-Xylenes	1.30	J	0.99	8.00	ug/Kg
95-47-6	o-Xylene	0.65	U	0.65	4.00	ug/Kg
100-42-5	Styrene	0.57	U	0.57	4.00	ug/Kg
75-25-2	Bromoform	0.69	U	0.69	4.00	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	0.97	U	0.97	4.00	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	45.2		63 - 155	90%	SPK: 50
1868-53-7	Dibromofluoromethane	48.6		70 - 134	97%	SPK: 50
2037-26-5	Toluene-d8	48.3		74 - 123	97%	SPK: 50
460-00-4	4-Bromofluorobenzene	37.4		38 - 136	75%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	270000	7.707			
540-36-3	1,4-Difluorobenzene	482000	8.615			
3114-55-4	Chlorobenzene-d5	373000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	129000	13.346			

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Report of Analysis

Client:	G Environmental	Date Collected:	05/15/25
Project:	Dover	Date Received:	05/15/25
Client Sample ID:	GVD13	SDG No.:	Q2056
Lab Sample ID:	Q2056-03	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	86.5
Sample Wt/Vol:	7.95 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY022337.D	1		05/20/25 13:01	VY052025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
74-87-3	Chloromethane	0.83	UQ	0.83	3.60	ug/Kg
75-01-4	Vinyl Chloride	0.57	UQ	0.57	3.60	ug/Kg
74-83-9	Bromomethane	0.78	UQ	0.78	3.60	ug/Kg
75-00-3	Chloroethane	0.92	UQ	0.92	3.60	ug/Kg
75-65-0	Tert butyl alcohol	10.0	U	10.0	18.2	ug/Kg
75-35-4	1,1-Dichloroethene	0.73	U	0.73	3.60	ug/Kg
67-64-1	Acetone	6.30	J	3.40	18.2	ug/Kg
75-15-0	Carbon Disulfide	0.77	U	0.77	3.60	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.53	U	0.53	3.60	ug/Kg
75-09-2	Methylene Chloride	2.60	U	2.60	7.30	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.63	U	0.63	3.60	ug/Kg
75-34-3	1,1-Dichloroethane	0.58	U	0.58	3.60	ug/Kg
78-93-3	2-Butanone	4.80	U	4.80	18.2	ug/Kg
56-23-5	Carbon Tetrachloride	0.71	U	0.71	3.60	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.55	U	0.55	3.60	ug/Kg
67-66-3	Chloroform	0.61	U	0.61	3.60	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.68	U	0.68	3.60	ug/Kg
71-43-2	Benzene	0.57	U	0.57	3.60	ug/Kg
107-06-2	1,2-Dichloroethane	0.57	U	0.57	3.60	ug/Kg
79-01-6	Trichloroethene	0.59	U	0.59	3.60	ug/Kg
78-87-5	1,2-Dichloropropane	0.66	U	0.66	3.60	ug/Kg
75-27-4	Bromodichloromethane	0.57	U	0.57	3.60	ug/Kg
108-10-1	4-Methyl-2-Pentanone	2.60	U	2.60	18.2	ug/Kg
108-88-3	Toluene	0.57	U	0.57	3.60	ug/Kg
10061-02-6	t-1,3-Dichloropropene	0.47	U	0.47	3.60	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.45	U	0.45	3.60	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.67	U	0.67	3.60	ug/Kg
591-78-6	2-Hexanone	2.70	U	2.70	18.2	ug/Kg
124-48-1	Dibromochloromethane	0.63	U	0.63	3.60	ug/Kg
127-18-4	Tetrachloroethene	0.76	U	0.76	3.60	ug/Kg

Report of Analysis

Client:	G Environmental	Date Collected:	05/15/25
Project:	Dover	Date Received:	05/15/25
Client Sample ID:	GVD13	SDG No.:	Q2056
Lab Sample ID:	Q2056-03	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	86.5
Sample Wt/Vol:	7.95 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY022337.D	1		05/20/25 13:01	VY052025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
108-90-7	Chlorobenzene	0.66	U	0.66	3.60	ug/Kg
100-41-4	Ethyl Benzene	0.49	U	0.49	3.60	ug/Kg
179601-23-1	m/p-Xylenes	0.90	U	0.90	7.30	ug/Kg
95-47-6	o-Xylene	0.60	U	0.60	3.60	ug/Kg
100-42-5	Styrene	0.52	U	0.52	3.60	ug/Kg
75-25-2	Bromoform	0.63	U	0.63	3.60	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	0.88	U	0.88	3.60	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	47.5		63 - 155	95%	SPK: 50
1868-53-7	Dibromofluoromethane	48.8		70 - 134	98%	SPK: 50
2037-26-5	Toluene-d8	48.6		74 - 123	97%	SPK: 50
460-00-4	4-Bromofluorobenzene	36.8		38 - 136	74%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	245000	7.707			
540-36-3	1,4-Difluorobenzene	432000	8.616			
3114-55-4	Chlorobenzene-d5	328000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	107000	13.347			

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Report of Analysis

Client:	G Environmental	Date Collected:	05/15/25
Project:	Dover	Date Received:	05/15/25
Client Sample ID:	GVD14	SDG No.:	Q2056
Lab Sample ID:	Q2056-04	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	81.8
Sample Wt/Vol:	6.57 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY022338.D	1		05/20/25 13:25	VY052025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
74-87-3	Chloromethane	1.10	UQ	1.10	4.70	ug/Kg
75-01-4	Vinyl Chloride	0.73	UQ	0.73	4.70	ug/Kg
74-83-9	Bromomethane	1.00	UQ	1.00	4.70	ug/Kg
75-00-3	Chloroethane	1.20	UQ	1.20	4.70	ug/Kg
75-65-0	Tert butyl alcohol	12.7	U	12.7	23.3	ug/Kg
75-35-4	1,1-Dichloroethene	0.93	U	0.93	4.70	ug/Kg
67-64-1	Acetone	4.40	U	4.40	23.3	ug/Kg
75-15-0	Carbon Disulfide	0.99	U	0.99	4.70	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.68	U	0.68	4.70	ug/Kg
75-09-2	Methylene Chloride	3.30	U	3.30	9.30	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.80	U	0.80	4.70	ug/Kg
75-34-3	1,1-Dichloroethane	0.74	U	0.74	4.70	ug/Kg
78-93-3	2-Butanone	6.10	U	6.10	23.3	ug/Kg
56-23-5	Carbon Tetrachloride	0.90	U	0.90	4.70	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.70	U	0.70	4.70	ug/Kg
67-66-3	Chloroform	0.78	U	0.78	4.70	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.87	U	0.87	4.70	ug/Kg
71-43-2	Benzene	0.73	U	0.73	4.70	ug/Kg
107-06-2	1,2-Dichloroethane	0.73	U	0.73	4.70	ug/Kg
79-01-6	Trichloroethene	0.75	U	0.75	4.70	ug/Kg
78-87-5	1,2-Dichloropropane	0.85	U	0.85	4.70	ug/Kg
75-27-4	Bromodichloromethane	0.73	U	0.73	4.70	ug/Kg
108-10-1	4-Methyl-2-Pentanone	3.30	U	3.30	23.3	ug/Kg
108-88-3	Toluene	0.73	U	0.73	4.70	ug/Kg
10061-02-6	t-1,3-Dichloropropene	0.60	U	0.60	4.70	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.58	U	0.58	4.70	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.86	U	0.86	4.70	ug/Kg
591-78-6	2-Hexanone	3.40	U	3.40	23.3	ug/Kg
124-48-1	Dibromochloromethane	0.81	U	0.81	4.70	ug/Kg
127-18-4	Tetrachloroethene	0.98	U	0.98	4.70	ug/Kg

Report of Analysis

Client:	G Environmental	Date Collected:	05/15/25
Project:	Dover	Date Received:	05/15/25
Client Sample ID:	GVD14	SDG No.:	Q2056
Lab Sample ID:	Q2056-04	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	81.8
Sample Wt/Vol:	6.57 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY022338.D	1		05/20/25 13:25	VY052025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
108-90-7	Chlorobenzene	0.85	U	0.85	4.70	ug/Kg
100-41-4	Ethyl Benzene	0.62	U	0.62	4.70	ug/Kg
179601-23-1	m/p-Xylenes	1.20	U	1.20	9.30	ug/Kg
95-47-6	o-Xylene	0.76	U	0.76	4.70	ug/Kg
100-42-5	Styrene	0.66	U	0.66	4.70	ug/Kg
75-25-2	Bromoform	0.80	U	0.80	4.70	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	1.10	U	1.10	4.70	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	49.3		63 - 155	99%	SPK: 50
1868-53-7	Dibromofluoromethane	50.4		70 - 134	101%	SPK: 50
2037-26-5	Toluene-d8	49.2		74 - 123	98%	SPK: 50
460-00-4	4-Bromofluorobenzene	37.0		38 - 136	74%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	241000	7.707			
540-36-3	1,4-Difluorobenzene	423000	8.616			
3114-55-4	Chlorobenzene-d5	328000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	112000	13.346			
TENTATIVE IDENTIFIED COMPOUNDS						
	unknown1.812	15.7	J		1.81	ug/Kg

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

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Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Report of Analysis

Client:	G Environmental	Date Collected:	05/15/25
Project:	Dover	Date Received:	05/15/25
Client Sample ID:	GVD15	SDG No.:	Q2056
Lab Sample ID:	Q2056-05	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	84
Sample Wt/Vol:	6.92 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY022358.D	1		05/21/25 11:37	VY052125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
74-87-3	Chloromethane	0.98	UQ	0.98	4.30	ug/Kg
75-01-4	Vinyl Chloride	0.68	UQ	0.68	4.30	ug/Kg
74-83-9	Bromomethane	0.92	UQ	0.92	4.30	ug/Kg
75-00-3	Chloroethane	1.10	UQ	1.10	4.30	ug/Kg
75-65-0	Tert butyl alcohol	11.8	U	11.8	21.5	ug/Kg
75-35-4	1,1-Dichloroethene	0.86	U	0.86	4.30	ug/Kg
67-64-1	Acetone	4.10	U	4.10	21.5	ug/Kg
75-15-0	Carbon Disulfide	0.91	U	0.91	4.30	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.63	U	0.63	4.30	ug/Kg
75-09-2	Methylene Chloride	3.00	U	3.00	8.60	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.74	U	0.74	4.30	ug/Kg
75-34-3	1,1-Dichloroethane	0.69	U	0.69	4.30	ug/Kg
78-93-3	2-Butanone	5.60	U	5.60	21.5	ug/Kg
56-23-5	Carbon Tetrachloride	0.83	U	0.83	4.30	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.65	U	0.65	4.30	ug/Kg
67-66-3	Chloroform	0.72	U	0.72	4.30	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.80	U	0.80	4.30	ug/Kg
71-43-2	Benzene	0.68	U	0.68	4.30	ug/Kg
107-06-2	1,2-Dichloroethane	0.68	U	0.68	4.30	ug/Kg
79-01-6	Trichloroethene	0.70	U	0.70	4.30	ug/Kg
78-87-5	1,2-Dichloropropane	0.78	U	0.78	4.30	ug/Kg
75-27-4	Bromodichloromethane	0.67	U	0.67	4.30	ug/Kg
108-10-1	4-Methyl-2-Pentanone	3.10	U	3.10	21.5	ug/Kg
108-88-3	Toluene	0.67	U	0.67	4.30	ug/Kg
10061-02-6	t-1,3-Dichloropropene	0.56	U	0.56	4.30	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.53	U	0.53	4.30	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.79	U	0.79	4.30	ug/Kg
591-78-6	2-Hexanone	3.20	U	3.20	21.5	ug/Kg
124-48-1	Dibromochloromethane	0.75	U	0.75	4.30	ug/Kg
127-18-4	Tetrachloroethene	0.90	U	0.90	4.30	ug/Kg

Report of Analysis

Client:	G Environmental		Date Collected:	05/15/25	
Project:	Dover		Date Received:	05/15/25	
Client Sample ID:	GVD15		SDG No.:	Q2056	
Lab Sample ID:	Q2056-05		Matrix:	SOIL	
Analytical Method:	8260D		% Solid:	84	
Sample Wt/Vol:	6.92	Units: g	Final Vol:	5000	uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group1	
GC Column:	RXI-624	ID : 0.25	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY022358.D	1		05/21/25 11:37	VY052125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
108-90-7	Chlorobenzene	0.78	U	0.78	4.30	ug/Kg
100-41-4	Ethyl Benzene	0.58	U	0.58	4.30	ug/Kg
179601-23-1	m/p-Xylenes	1.10	U	1.10	8.60	ug/Kg
95-47-6	o-Xylene	0.71	U	0.71	4.30	ug/Kg
100-42-5	Styrene	0.61	U	0.61	4.30	ug/Kg
75-25-2	Bromoform	0.74	U	0.74	4.30	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	1.00	U	1.00	4.30	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	48.5		63 - 155	97%	SPK: 50
1868-53-7	Dibromofluoromethane	51.2		70 - 134	102%	SPK: 50
2037-26-5	Toluene-d8	47.1		74 - 123	94%	SPK: 50
460-00-4	4-Bromofluorobenzene	27.8		38 - 136	56%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	237000	7.713			
540-36-3	1,4-Difluorobenzene	412000	8.622			
3114-55-4	Chlorobenzene-d5	278000	11.42			
3855-82-1	1,4-Dichlorobenzene-d4	64000	13.353			

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

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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

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() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products



QC SUMMARY

Surrogate Summary

SDG No.: **Q2056**

Client: **G Environmental**

Analytical Method: **SW8260D**

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits	
						Low	High
Q2056-01	GVD11	1,2-Dichloroethane-d4	50	48.4	97	63	155
		Dibromofluoromethane	50	49.2	98	70	134
		Toluene-d8	50	47.9	96	74	123
		4-Bromofluorobenzene	50	35.0	70	38	136
Q2056-02	GVD12	1,2-Dichloroethane-d4	50	45.2	90	63	155
		Dibromofluoromethane	50	48.6	97	70	134
		Toluene-d8	50	48.3	97	74	123
		4-Bromofluorobenzene	50	37.4	75	38	136
Q2056-03	GVD13	1,2-Dichloroethane-d4	50	47.5	95	63	155
		Dibromofluoromethane	50	48.8	98	70	134
		Toluene-d8	50	48.6	97	74	123
		4-Bromofluorobenzene	50	36.8	74	38	136
Q2056-04	GVD14	1,2-Dichloroethane-d4	50	49.3	99	63	155
		Dibromofluoromethane	50	50.4	101	70	134
		Toluene-d8	50	49.2	98	74	123
		4-Bromofluorobenzene	50	37.0	74	38	136
Q2056-05	GVD15	1,2-Dichloroethane-d4	50	48.5	97	63	155
		Dibromofluoromethane	50	51.2	102	70	134
		Toluene-d8	50	47.1	94	74	123
		4-Bromofluorobenzene	50	27.8	56	38	136
VY0519SBL01	VY0519SBL01	1,2-Dichloroethane-d4	50	41.1	82	63	155
		Dibromofluoromethane	50	47.5	95	70	134
		Toluene-d8	50	48.8	98	74	123
		4-Bromofluorobenzene	50	37.7	75	38	136
VY0519SBS01	VY0519SBS01	1,2-Dichloroethane-d4	50	51.3	103	63	155
		Dibromofluoromethane	50	51.0	102	70	134
		Toluene-d8	50	51.1	102	74	123
		4-Bromofluorobenzene	50	48.5	97	38	136
VY0519SBSD01	VY0519SBSD01	1,2-Dichloroethane-d4	50	50.5	101	63	155
		Dibromofluoromethane	50	50.8	102	70	134
		Toluene-d8	50	51.2	102	74	123
		4-Bromofluorobenzene	50	47.5	95	38	136
VY0520SBL01	VY0520SBL01	1,2-Dichloroethane-d4	50	45.7	91	63	155
		Dibromofluoromethane	50	48.4	97	70	134
		Toluene-d8	50	48.6	97	74	123
		4-Bromofluorobenzene	50	52.5	105	38	136
VY0520SBS01	VY0520SBS01	1,2-Dichloroethane-d4	50	52.8	106	63	155
		Dibromofluoromethane	50	52.0	104	70	134
		Toluene-d8	50	51.5	103	74	123
		4-Bromofluorobenzene	50	47.7	95	38	136
VY0521SBL01	VY0521SBL01	1,2-Dichloroethane-d4	50	42.6	85	63	155
		Dibromofluoromethane	50	48.1	96	70	134
		Toluene-d8	50	48.7	97	74	123
		4-Bromofluorobenzene	50	50.3	101	38	136
VY0521SBS01	VY0521SBS01	1,2-Dichloroethane-d4	50	48.2	96	63	155
		Dibromofluoromethane	50	48.4	97	70	134
		Toluene-d8	50	47.9	96	74	123
		4-Bromofluorobenzene	50	45.4	91	38	136

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2056

Client: G Environmental

Analytical Method: SW8260D

Datafile : VY022305.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VY0519SBS01	Chloromethane	20	26.6	ug/Kg	133	*		70	130	
	Vinyl chloride	20	26.8	ug/Kg	134	*		72	129	
	Bromomethane	20	32.0	ug/Kg	160	*		58	141	
	Chloroethane	20	29.0	ug/Kg	145	*		69	130	
	Tert butyl alcohol	100	97.3	ug/Kg	97			24	175	
	1,1-Dichloroethene	20	20.8	ug/Kg	104			79	121	
	Acetone	100	88.8	ug/Kg	89			60	131	
	Carbon disulfide	20	20.8	ug/Kg	104			45	154	
	Methyl tert-butyl Ether	20	20.5	ug/Kg	103			77	129	
	Methylene Chloride	20	18.7	ug/Kg	94			56	174	
	trans-1,2-Dichloroethene	20	20.4	ug/Kg	102			80	123	
	1,1-Dichloroethane	20	20.3	ug/Kg	102			82	123	
	2-Butanone	100	90.9	ug/Kg	91			69	131	
	Carbon Tetrachloride	20	20.7	ug/Kg	104			76	129	
	cis-1,2-Dichloroethene	20	20.5	ug/Kg	103			82	123	
	Chloroform	20	20.9	ug/Kg	104			82	125	
	1,1,1-Trichloroethane	20	21.2	ug/Kg	106			80	126	
	Benzene	20	20.2	ug/Kg	101			84	121	
	1,2-Dichloroethane	20	20.3	ug/Kg	102			81	126	
	Trichloroethene	20	20.4	ug/Kg	102			83	122	
	1,2-Dichloropropane	20	19.8	ug/Kg	99			83	122	
	Bromodichloromethane	20	20.3	ug/Kg	102			82	123	
	4-Methyl-2-Pentanone	100	95.8	ug/Kg	96			70	135	
	Toluene	20	19.9	ug/Kg	100			83	122	
	t-1,3-Dichloropropene	20	19.4	ug/Kg	97			78	124	
	cis-1,3-Dichloropropene	20	20.1	ug/Kg	101			81	122	
	1,1,2-Trichloroethane	20	20.5	ug/Kg	103			82	125	
	2-Hexanone	100	92.6	ug/Kg	93			66	138	
	Dibromochloromethane	20	20.3	ug/Kg	102			79	125	
	Tetrachloroethene	20	20.4	ug/Kg	102			83	125	
	Chlorobenzene	20	20.3	ug/Kg	102			84	122	
	Ethyl Benzene	20	19.8	ug/Kg	99			82	124	
	m/p-Xylenes	40	40.0	ug/Kg	100			83	124	
	o-Xylene	20	19.6	ug/Kg	98			83	123	
	Styrene	20	19.6	ug/Kg	98			82	124	
	Bromoform	20	19.7	ug/Kg	99			75	127	
	1,1,2,2-Tetrachloroethane	20	20.4	ug/Kg	102			77	127	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2056

Client: G Environmental

Analytical Method: SW8260D

Datafile : VY022306.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VY0519SBSD01	Chloromethane	20	26.7	ug/Kg	134	1	*	70	130	20
	Vinyl chloride	20	27.0	ug/Kg	135	1	*	72	129	20
	Bromomethane	20	32.1	ug/Kg	160	0	*	58	141	20
	Chloroethane	20	29.6	ug/Kg	148	2	*	69	130	20
	Tert butyl alcohol	100	95.3	ug/Kg	95	2		24	175	20
	1,1-Dichloroethene	20	21.7	ug/Kg	109	5		79	121	20
	Acetone	100	83.4	ug/Kg	83	7		60	131	20
	Carbon disulfide	20	21.2	ug/Kg	106	2		45	154	20
	Methyl tert-butyl Ether	20	20.8	ug/Kg	104	1		77	129	20
	Methylene Chloride	20	19.6	ug/Kg	98	4		56	174	20
	trans-1,2-Dichloroethene	20	21.3	ug/Kg	106	4		80	123	20
	1,1-Dichloroethane	20	20.7	ug/Kg	104	2		82	123	20
	2-Butanone	100	92.1	ug/Kg	92	1		69	131	20
	Carbon Tetrachloride	20	20.6	ug/Kg	103	1		76	129	20
	cis-1,2-Dichloroethene	20	21.1	ug/Kg	106	3		82	123	20
	Chloroform	20	21.5	ug/Kg	108	4		82	125	20
	1,1,1-Trichloroethane	20	21.0	ug/Kg	105	1		80	126	20
	Benzene	20	20.7	ug/Kg	104	3		84	121	20
	1,2-Dichloroethane	20	20.2	ug/Kg	101	1		81	126	20
	Trichloroethene	20	20.7	ug/Kg	104	2		83	122	20
	1,2-Dichloropropane	20	20.2	ug/Kg	101	2		83	122	20
	Bromodichloromethane	20	20.5	ug/Kg	103	1		82	123	20
	4-Methyl-2-Pentanone	100	94.3	ug/Kg	94	2		70	135	20
	Toluene	20	20.2	ug/Kg	101	1		83	122	20
	t-1,3-Dichloropropene	20	19.6	ug/Kg	98	1		78	124	20
	cis-1,3-Dichloropropene	20	20.3	ug/Kg	102	1		81	122	20
	1,1,2-Trichloroethane	20	20.8	ug/Kg	104	1		82	125	20
	2-Hexanone	100	92.4	ug/Kg	92	1		66	138	20
	Dibromochloromethane	20	19.9	ug/Kg	100	2		79	125	20
	Tetrachloroethene	20	20.3	ug/Kg	102	0		83	125	20
	Chlorobenzene	20	20.5	ug/Kg	103	1		84	122	20
	Ethyl Benzene	20	19.9	ug/Kg	100	1		82	124	20
	m/p-Xylenes	40	40.0	ug/Kg	100	0		83	124	20
	o-Xylene	20	20.0	ug/Kg	100	2		83	123	20
	Styrene	20	19.9	ug/Kg	100	2		82	124	20
	Bromoform	20	19.8	ug/Kg	99	0		75	127	20
	1,1,2,2-Tetrachloroethane	20	21.2	ug/Kg	106	4		77	127	20

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2056

Client: G Environmental

Analytical Method: SW8260D

Datafile : VY022331.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VY0520SBS01	Chloromethane	20	29.7	ug/Kg	149	*		70	130	
	Vinyl chloride	20	30.5	ug/Kg	153	*		72	129	
	Bromomethane	20	37.9	ug/Kg	190	*		58	141	
	Chloroethane	20	35.1	ug/Kg	175	*		69	130	
	Tert butyl alcohol	100	110	ug/Kg	110			24	175	
	1,1-Dichloroethene	20	22.1	ug/Kg	111			79	121	
	Acetone	100	100	ug/Kg	100			60	131	
	Carbon disulfide	20	21.4	ug/Kg	107			45	154	
	Methyl tert-butyl Ether	20	22.0	ug/Kg	110			77	129	
	Methylene Chloride	20	20.1	ug/Kg	101			56	174	
	trans-1,2-Dichloroethene	20	21.6	ug/Kg	108			80	123	
	1,1-Dichloroethane	20	21.4	ug/Kg	107			82	123	
	2-Butanone	100	100	ug/Kg	100			69	131	
	Carbon Tetrachloride	20	20.7	ug/Kg	104			76	129	
	cis-1,2-Dichloroethene	20	21.7	ug/Kg	109			82	123	
	Chloroform	20	22.3	ug/Kg	112			82	125	
	1,1,1-Trichloroethane	20	21.5	ug/Kg	108			80	126	
	Benzene	20	20.8	ug/Kg	104			84	121	
	1,2-Dichloroethane	20	21.3	ug/Kg	106			81	126	
	Trichloroethene	20	20.6	ug/Kg	103			83	122	
	1,2-Dichloropropane	20	20.4	ug/Kg	102			83	122	
	Bromodichloromethane	20	20.9	ug/Kg	104			82	123	
	4-Methyl-2-Pentanone	100	100	ug/Kg	100			70	135	
	Toluene	20	20.0	ug/Kg	100			83	122	
	t-1,3-Dichloropropene	20	20.1	ug/Kg	101			78	124	
	cis-1,3-Dichloropropene	20	20.2	ug/Kg	101			81	122	
	1,1,2-Trichloroethane	20	21.1	ug/Kg	106			82	125	
	2-Hexanone	100	97.7	ug/Kg	98			66	138	
	Dibromochloromethane	20	20.4	ug/Kg	102			79	125	
	Tetrachloroethene	20	21.6	ug/Kg	108			83	125	
	Chlorobenzene	20	20.5	ug/Kg	103			84	122	
	Ethyl Benzene	20	19.8	ug/Kg	99			82	124	
	m/p-Xylenes	40	39.6	ug/Kg	99			83	124	
	o-Xylene	20	20.2	ug/Kg	101			83	123	
	Styrene	20	19.7	ug/Kg	99			82	124	
	Bromoform	20	20.7	ug/Kg	104			75	127	
	1,1,2,2-Tetrachloroethane	20	20.7	ug/Kg	104			77	127	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2056

Client: G Environmental

Analytical Method: SW8260D

Datafile : VY022356.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VY0521SBS01	Chloromethane	20	26.9	ug/Kg	135	*		70	130	
	Vinyl chloride	20	27.4	ug/Kg	137	*		72	129	
	Bromomethane	20	37.2	ug/Kg	186	*		58	141	
	Chloroethane	20	32.9	ug/Kg	165	*		69	130	
	Tert butyl alcohol	100	100	ug/Kg	100			24	175	
	1,1-Dichloroethene	20	21.1	ug/Kg	106			79	121	
	Acetone	100	94.0	ug/Kg	94			60	131	
	Carbon disulfide	20	20.3	ug/Kg	102			45	154	
	Methyl tert-butyl Ether	20	21.2	ug/Kg	106			77	129	
	Methylene Chloride	20	19.5	ug/Kg	98			56	174	
	trans-1,2-Dichloroethene	20	20.6	ug/Kg	103			80	123	
	1,1-Dichloroethane	20	20.3	ug/Kg	102			82	123	
	2-Butanone	100	96.3	ug/Kg	96			69	131	
	Carbon Tetrachloride	20	19.8	ug/Kg	99			76	129	
	cis-1,2-Dichloroethene	20	21.0	ug/Kg	105			82	123	
	Chloroform	20	20.8	ug/Kg	104			82	125	
	1,1,1-Trichloroethane	20	20.1	ug/Kg	101			80	126	
	Benzene	20	20.2	ug/Kg	101			84	121	
	1,2-Dichloroethane	20	20.4	ug/Kg	102			81	126	
	Trichloroethene	20	20.2	ug/Kg	101			83	122	
	1,2-Dichloropropane	20	19.8	ug/Kg	99			83	122	
	Bromodichloromethane	20	20.3	ug/Kg	102			82	123	
	4-Methyl-2-Pentanone	100	96.4	ug/Kg	96			70	135	
	Toluene	20	19.9	ug/Kg	100			83	122	
	t-1,3-Dichloropropene	20	19.4	ug/Kg	97			78	124	
	cis-1,3-Dichloropropene	20	19.9	ug/Kg	100			81	122	
	1,1,2-Trichloroethane	20	20.8	ug/Kg	104			82	125	
	2-Hexanone	100	95.9	ug/Kg	96			66	138	
	Dibromochloromethane	20	20.7	ug/Kg	104			79	125	
	Tetrachloroethene	20	20.4	ug/Kg	102			83	125	
	Chlorobenzene	20	20.2	ug/Kg	101			84	122	
	Ethyl Benzene	20	19.3	ug/Kg	97			82	124	
	m/p-Xylenes	40	38.7	ug/Kg	97			83	124	
	o-Xylene	20	19.4	ug/Kg	97			83	123	
	Styrene	20	19.1	ug/Kg	96			82	124	
	Bromoform	20	19.3	ug/Kg	97			75	127	
	1,1,2,2-Tetrachloroethane	20	20.9	ug/Kg	104			77	127	

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VY0519SBL01

Lab Name: CHEMTECH

Contract: GENV01

Lab Code: CHEM Case No.: Q2056

SAS No.: Q2056 SDG NO.: Q2056

Lab File ID: VY022304.D

Lab Sample ID: VY0519SBL01

Date Analyzed: 05/19/2025

Time Analyzed: 09:00

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

Heated Purge: (Y/N) Y

Instrument ID: MSVOA_Y

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
VY0519SBS01	VY0519SBS01	VY022305.D	05/19/2025
VY0519SBSD01	VY0519SBSD01	VY022306.D	05/19/2025
GVD11	Q2056-01	VY022326.D	05/19/2025

COMMENTS: _____

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VY0520SBL01

Lab Name: CHEMTECH

Contract: GENV01

Lab Code: CHEM Case No.: Q2056

SAS No.: Q2056 SDG NO.: Q2056

Lab File ID: VY022330.D

Lab Sample ID: VY0520SBL01

Date Analyzed: 05/20/2025

Time Analyzed: 09:48

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

Heated Purge: (Y/N) Y

Instrument ID: MSVOA_Y

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
VY0520SBS01	VY0520SBS01	VY022331.D	05/20/2025
GVD12	Q2056-02	VY022336.D	05/20/2025
GVD13	Q2056-03	VY022337.D	05/20/2025
GVD14	Q2056-04	VY022338.D	05/20/2025

COMMENTS: _____

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VY0521SBL01

Lab Name: CHEMTECH

Contract: GENV01

Lab Code: CHEM Case No.: Q2056

SAS No.: Q2056 SDG NO.: Q2056

Lab File ID: VY022355.D

Lab Sample ID: VY0521SBL01

Date Analyzed: 05/21/2025

Time Analyzed: 10:05

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

Heated Purge: (Y/N) Y

Instrument ID: MSVOA_Y

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
VY0521SBS01	VY0521SBS01	VY022356.D	05/21/2025
GVD15	Q2056-05	VY022358.D	05/21/2025

COMMENTS: _____

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: GENV01
Lab Code: CHEM Case No.: Q2056 SAS No.: Q2056 SDG NO.: Q2056
Lab File ID: VY022252.D BFB Injection Date: 05/15/2025
Instrument ID: MSVOA_Y BFB Injection Time: 07:52
GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: Y/N Y

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	24
75	30.0 - 60.0% of mass 95	55.9
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.8
173	Less than 2.0% of mass 174	0.7 (0.9) 1
174	50.0 - 100.0% of mass 95	80.5
175	5.0 - 9.0% of mass 174	5.9 (7.3) 1
176	95.0 - 101.0% of mass 174	77.5 (96.3) 1
177	5.0 - 9.0% of mass 176	5.3 (6.8) 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
VSTDIC005	VSTDIC005	VY022253.D	05/15/2025	09:46
VSTDIC010	VSTDIC010	VY022254.D	05/15/2025	10:16
VSTDIC020	VSTDIC020	VY022255.D	05/15/2025	10:39
VSTDIC050	VSTDIC050	VY022256.D	05/15/2025	11:02
VSTDIC100	VSTDIC100	VY022257.D	05/15/2025	11:24
VSTDIC150	VSTDIC150	VY022258.D	05/15/2025	11:47

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: GENV01
Lab Code: CHEM Case No.: Q2056 SAS No.: Q2056 SDG NO.: Q2056
Lab File ID: VY022302.D BFB Injection Date: 05/19/2025
Instrument ID: MSVOA_Y BFB Injection Time: 07:57
GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: Y/N Y

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	24
75	30.0 - 60.0% of mass 95	58
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.8
173	Less than 2.0% of mass 174	0.9 (1) 1
174	50.0 - 100.0% of mass 95	83.6
175	5.0 - 9.0% of mass 174	6.2 (7.4) 1
176	95.0 - 101.0% of mass 174	80.5 (96.3) 1
177	5.0 - 9.0% of mass 176	5.4 (6.7) 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
VSTDCCC050	VSTDCCC050	VY022303.D	05/19/2025	08:27
VY0519SBL01	VY0519SBL01	VY022304.D	05/19/2025	09:00
VY0519SBS01	VY0519SBS01	VY022305.D	05/19/2025	09:36
VY0519SBSD01	VY0519SBSD01	VY022306.D	05/19/2025	09:59
GVD11	Q2056-01	VY022326.D	05/19/2025	18:06

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: GENV01
Lab Code: CHEM Case No.: Q2056 SAS No.: Q2056 SDG NO.: Q2056
Lab File ID: VY022328.D BFB Injection Date: 05/20/2025
Instrument ID: MSVOA_Y BFB Injection Time: 08:09
GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: Y/N Y

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	24.5
75	30.0 - 60.0% of mass 95	58.5
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.7
173	Less than 2.0% of mass 174	1 (1.2) 1
174	50.0 - 100.0% of mass 95	82.9
175	5.0 - 9.0% of mass 174	6.4 (7.7) 1
176	95.0 - 101.0% of mass 174	80.3 (96.8) 1
177	5.0 - 9.0% of mass 176	5.4 (6.7) 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
VSTDCCC050	VSTDCCC050	VY022329.D	05/20/2025	08:40
VY0520SBL01	VY0520SBL01	VY022330.D	05/20/2025	09:48
VY0520SBS01	VY0520SBS01	VY022331.D	05/20/2025	10:21
GVD12	Q2056-02	VY022336.D	05/20/2025	12:38
GVD13	Q2056-03	VY022337.D	05/20/2025	13:01
GVD14	Q2056-04	VY022338.D	05/20/2025	13:25

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: GENV01
Lab Code: CHEM Case No.: Q2056 SAS No.: Q2056 SDG NO.: Q2056
Lab File ID: VY022353.D BFB Injection Date: 05/21/2025
Instrument ID: MSVOA_Y BFB Injection Time: 09:02
GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: Y/N Y

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	23.9
75	30.0 - 60.0% of mass 95	59.7
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.6
173	Less than 2.0% of mass 174	1 (1.1) 1
174	50.0 - 100.0% of mass 95	85
175	5.0 - 9.0% of mass 174	6.2 (7.3) 1
176	95.0 - 101.0% of mass 174	81.3 (95.6) 1
177	5.0 - 9.0% of mass 176	5.4 (6.6) 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	VY022354.D	05/21/2025	09:33
VY0521SBL01	VY0521SBL01	VY022355.D	05/21/2025	10:05
VY0521SBS01	VY0521SBS01	VY022356.D	05/21/2025	10:35
GVD15	Q2056-05	VY022358.D	05/21/2025	11:37

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: GENV01
Lab Code: CHEM Case No.: Q2056 SAS No.: Q2056 SDG NO.: Q2056
Lab File ID: VY022303.D Date Analyzed: 05/19/2025
Instrument ID: MSVOA_Y Time Analyzed: 08:27
GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) Y

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	226750	7.71	371882	8.62	313200	11.41
UPPER LIMIT	453500	8.207	743764	9.116	626400	11.914
LOWER LIMIT	113375	7.207	185941	8.116	156600	10.914
EPA SAMPLE NO.						
GVD11	223481	7.71	406573	8.61	303031	11.41
VY0519SBL01	331048	7.71	571469	8.62	438659	11.42
VY0519SBS01	200360	7.71	338060	8.62	283142	11.42
VY0519SBSD01	194565	7.71	331521	8.62	276940	11.41

IS1 = Pentafluorobenzene

IS2 = 1,4-Difluorobenzene

IS3 = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT LOWER LIMIT = -0.50 minutes of internal standard RT

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

* Values outside of QC limits.

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: GENV01
Lab Code: CHEM Case No.: Q2056 SAS No.: Q2056 SDG NO.: Q2056
Lab File ID: VY022303.D Date Analyzed: 05/19/2025
Instrument ID: MSVOA_Y Time Analyzed: 08:27
GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) Y

	IS4 AREA #	RT #				
12 HOUR STD	144499	13.346				
UPPER LIMIT	288998	13.846				
LOWER LIMIT	72249.5	12.846				
EPA SAMPLE NO.						
GVD11	89910	13.35				
VY0519SBL01	158015	13.35				
VY0519SBS01	133674	13.35				
VY0519SBSD01	128146	13.35				

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.

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: GENV01
Lab Code: CHEM Case No.: Q2056 SAS No.: Q2056 SDG NO.: Q2056
Lab File ID: VY022329.D Date Analyzed: 05/20/2025
Instrument ID: MSVOA_Y Time Analyzed: 08:40
GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) Y

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	180374	7.71	298369	8.62	252391	11.41
UPPER LIMIT	360748	8.207	596738	9.116	504782	11.914
LOWER LIMIT	90187	7.207	149185	8.116	126196	10.914
EPA SAMPLE NO.						
GVD12	269526	7.71	481628	8.62	373395	11.41
GVD13	244549	7.71	431792	8.62	328152	11.41
GVD14	240752	7.71	423261	8.62	327850	11.41
VY0520SBL01	253729	7.71	453295	8.62	355808	11.42
VY0520SBS01	162404	7.71	280923	8.62	236555	11.42

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

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

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

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: GENV01
Lab Code: CHEM Case No.: Q2056 SAS No.: Q2056 SDG NO.: Q2056
Lab File ID: VY022329.D Date Analyzed: 05/20/2025
Instrument ID: MSVOA_Y Time Analyzed: 08:40
GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) Y

	IS4 AREA #	RT #				
12 HOUR STD	120747	13.346				
UPPER LIMIT	241494	13.846				
LOWER LIMIT	60373.5	12.846				
EPA SAMPLE NO.						
GVD12	128914	13.35				
GVD13	107238	13.35				
GVD14	112421	13.35				
VY0520SBL01	124571	13.35				
VY0520SBS01	111469	13.35				

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.

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: GENV01
Lab Code: CHEM Case No.: Q2056 SAS No.: Q2056 SDG NO.: Q2056
Lab File ID: VY022354.D Date Analyzed: 05/21/2025
Instrument ID: MSVOA_Y Time Analyzed: 09:33
GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) Y

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	174007	7.71	289031	8.62	248227	11.42
UPPER LIMIT	348014	8.213	578062	9.116	496454	11.92
LOWER LIMIT	87003.5	7.213	144516	8.116	124114	10.92
EPA SAMPLE NO.						
GVD15	236757	7.71	411751	8.62	277651	11.42
VY0521SBL01	261806	7.71	457379	8.62	349876	11.42
VY0521SBS01	164670	7.71	280143	8.62	238357	11.42

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

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

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

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: GENV01
 Lab Code: CHEM Case No.: Q2056 SAS No.: Q2056 SDG NO.: Q2056
 Lab File ID: VY022354.D Date Analyzed: 05/21/2025
 Instrument ID: MSVOA_Y Time Analyzed: 09:33
 GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) Y

	IS4 AREA #	RT #				
12 HOUR STD	116710	13.353				
UPPER LIMIT	233420	13.853				
LOWER LIMIT	58355	12.853				
EPA SAMPLE NO.						
GVD15	64045	13.35				
VY0521SBL01	119412	13.35				
VY0521SBS01	110395	13.35				

IS4 = 1,4-Dichlorobenzene-d4

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

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



QC SAMPLE DATA

Report of Analysis

Client:	G Environmental		Date Collected:	
Project:	Dover		Date Received:	
Client Sample ID:	VY0519SBL01		SDG No.:	Q2056
Lab Sample ID:	VY0519SBL01		Matrix:	SOIL
Analytical Method:	8260D		% Solid:	100
Sample Wt/Vol:	5	Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group1
GC Column:	RXI-624	ID : 0.25	Level :	LOW
Prep Method :				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY022304.D	1		05/19/25 09:00	VY051925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
74-87-3	Chloromethane	1.10	U	1.10	5.00	ug/Kg
75-01-4	Vinyl Chloride	0.79	U	0.79	5.00	ug/Kg
74-83-9	Bromomethane	1.10	U	1.10	5.00	ug/Kg
75-00-3	Chloroethane	1.30	U	1.30	5.00	ug/Kg
75-65-0	Tert butyl alcohol	13.7	U	13.7	25.0	ug/Kg
75-35-4	1,1-Dichloroethene	1.00	U	1.00	5.00	ug/Kg
67-64-1	Acetone	4.70	U	4.70	25.0	ug/Kg
75-15-0	Carbon Disulfide	1.10	U	1.10	5.00	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.73	U	0.73	5.00	ug/Kg
75-09-2	Methylene Chloride	3.50	U	3.50	10.0	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.86	U	0.86	5.00	ug/Kg
75-34-3	1,1-Dichloroethane	0.80	U	0.80	5.00	ug/Kg
78-93-3	2-Butanone	6.50	U	6.50	25.0	ug/Kg
56-23-5	Carbon Tetrachloride	0.97	U	0.97	5.00	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.75	U	0.75	5.00	ug/Kg
67-66-3	Chloroform	0.84	U	0.84	5.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.93	U	0.93	5.00	ug/Kg
71-43-2	Benzene	0.79	U	0.79	5.00	ug/Kg
107-06-2	1,2-Dichloroethane	0.79	U	0.79	5.00	ug/Kg
79-01-6	Trichloroethene	0.81	U	0.81	5.00	ug/Kg
78-87-5	1,2-Dichloropropane	0.91	U	0.91	5.00	ug/Kg
75-27-4	Bromodichloromethane	0.78	U	0.78	5.00	ug/Kg
108-10-1	4-Methyl-2-Pentanone	3.60	U	3.60	25.0	ug/Kg
108-88-3	Toluene	0.78	U	0.78	5.00	ug/Kg
10061-02-6	t-1,3-Dichloropropene	0.65	U	0.65	5.00	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.62	U	0.62	5.00	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.92	U	0.92	5.00	ug/Kg
591-78-6	2-Hexanone	3.70	U	3.70	25.0	ug/Kg
124-48-1	Dibromochloromethane	0.87	U	0.87	5.00	ug/Kg
127-18-4	Tetrachloroethene	1.10	U	1.10	5.00	ug/Kg

Report of Analysis

Client:	G Environmental	Date Collected:	
Project:	Dover	Date Received:	
Client Sample ID:	VY0519SBL01	SDG No.:	Q2056
Lab Sample ID:	VY0519SBL01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY022304.D	1		05/19/25 09:00	VY051925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
108-90-7	Chlorobenzene	0.91	U	0.91	5.00	ug/Kg
100-41-4	Ethyl Benzene	0.67	U	0.67	5.00	ug/Kg
179601-23-1	m/p-Xylenes	1.20	U	1.20	10.0	ug/Kg
95-47-6	o-Xylene	0.82	U	0.82	5.00	ug/Kg
100-42-5	Styrene	0.71	U	0.71	5.00	ug/Kg
75-25-2	Bromoform	0.86	U	0.86	5.00	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	1.20	U	1.20	5.00	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	41.1		63 - 155	82%	SPK: 50
1868-53-7	Dibromofluoromethane	47.5		70 - 134	95%	SPK: 50
2037-26-5	Toluene-d8	48.8		74 - 123	98%	SPK: 50
460-00-4	4-Bromofluorobenzene	37.7		38 - 136	75%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	331000	7.707			
540-36-3	1,4-Difluorobenzene	571000	8.616			
3114-55-4	Chlorobenzene-d5	439000	11.42			
3855-82-1	1,4-Dichlorobenzene-d4	158000	13.346			

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Report of Analysis

Client:	G Environmental	Date Collected:	
Project:	Dover	Date Received:	
Client Sample ID:	VY0520SBL01	SDG No.:	Q2056
Lab Sample ID:	VY0520SBL01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY022330.D	1		05/20/25 09:48	VY052025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
74-87-3	Chloromethane	1.10	U	1.10	5.00	ug/Kg
75-01-4	Vinyl Chloride	0.79	U	0.79	5.00	ug/Kg
74-83-9	Bromomethane	1.10	U	1.10	5.00	ug/Kg
75-00-3	Chloroethane	1.30	U	1.30	5.00	ug/Kg
75-65-0	Tert butyl alcohol	13.7	U	13.7	25.0	ug/Kg
75-35-4	1,1-Dichloroethene	1.00	U	1.00	5.00	ug/Kg
67-64-1	Acetone	4.70	U	4.70	25.0	ug/Kg
75-15-0	Carbon Disulfide	1.10	U	1.10	5.00	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.73	U	0.73	5.00	ug/Kg
75-09-2	Methylene Chloride	3.50	U	3.50	10.0	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.86	U	0.86	5.00	ug/Kg
75-34-3	1,1-Dichloroethane	0.80	U	0.80	5.00	ug/Kg
78-93-3	2-Butanone	6.50	U	6.50	25.0	ug/Kg
56-23-5	Carbon Tetrachloride	0.97	U	0.97	5.00	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.75	U	0.75	5.00	ug/Kg
67-66-3	Chloroform	0.84	U	0.84	5.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.93	U	0.93	5.00	ug/Kg
71-43-2	Benzene	0.79	U	0.79	5.00	ug/Kg
107-06-2	1,2-Dichloroethane	0.79	U	0.79	5.00	ug/Kg
79-01-6	Trichloroethene	0.81	U	0.81	5.00	ug/Kg
78-87-5	1,2-Dichloropropane	0.91	U	0.91	5.00	ug/Kg
75-27-4	Bromodichloromethane	0.78	U	0.78	5.00	ug/Kg
108-10-1	4-Methyl-2-Pentanone	3.60	U	3.60	25.0	ug/Kg
108-88-3	Toluene	0.78	U	0.78	5.00	ug/Kg
10061-02-6	t-1,3-Dichloropropene	0.65	U	0.65	5.00	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.62	U	0.62	5.00	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.92	U	0.92	5.00	ug/Kg
591-78-6	2-Hexanone	3.70	U	3.70	25.0	ug/Kg
124-48-1	Dibromochloromethane	0.87	U	0.87	5.00	ug/Kg
127-18-4	Tetrachloroethene	1.10	U	1.10	5.00	ug/Kg

Report of Analysis

Client:	G Environmental		Date Collected:		
Project:	Dover		Date Received:		
Client Sample ID:	VY0520SBL01		SDG No.:	Q2056	
Lab Sample ID:	VY0520SBL01		Matrix:	SOIL	
Analytical Method:	8260D		% Solid:	100	
Sample Wt/Vol:	5	Units: g	Final Vol:	5000	uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group1	
GC Column:	RXI-624	ID : 0.25	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY022330.D	1		05/20/25 09:48	VY052025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
108-90-7	Chlorobenzene	0.91	U	0.91	5.00	ug/Kg
100-41-4	Ethyl Benzene	0.67	U	0.67	5.00	ug/Kg
179601-23-1	m/p-Xylenes	1.20	U	1.20	10.0	ug/Kg
95-47-6	o-Xylene	0.82	U	0.82	5.00	ug/Kg
100-42-5	Styrene	0.71	U	0.71	5.00	ug/Kg
75-25-2	Bromoform	0.86	U	0.86	5.00	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	1.20	U	1.20	5.00	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	45.7		63 - 155	91%	SPK: 50
1868-53-7	Dibromofluoromethane	48.3		70 - 134	97%	SPK: 50
2037-26-5	Toluene-d8	48.6		74 - 123	97%	SPK: 50
460-00-4	4-Bromofluorobenzene	52.5		38 - 136	105%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	254000	7.707			
540-36-3	1,4-Difluorobenzene	453000	8.615			
3114-55-4	Chlorobenzene-d5	356000	11.42			
3855-82-1	1,4-Dichlorobenzene-d4	125000	13.346			

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Report of Analysis

Client:	G Environmental		Date Collected:	
Project:	Dover		Date Received:	
Client Sample ID:	VY0521SBL01		SDG No.:	Q2056
Lab Sample ID:	VY0521SBL01		Matrix:	SOIL
Analytical Method:	8260D		% Solid:	100
Sample Wt/Vol:	5	Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group1
GC Column:	RXI-624	ID : 0.25	Level :	LOW
Prep Method :				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY022355.D	1		05/21/25 10:05	VY052125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
74-87-3	Chloromethane	1.10	U	1.10	5.00	ug/Kg
75-01-4	Vinyl Chloride	0.79	U	0.79	5.00	ug/Kg
74-83-9	Bromomethane	1.10	U	1.10	5.00	ug/Kg
75-00-3	Chloroethane	1.30	U	1.30	5.00	ug/Kg
75-65-0	Tert butyl alcohol	13.7	U	13.7	25.0	ug/Kg
75-35-4	1,1-Dichloroethene	1.00	U	1.00	5.00	ug/Kg
67-64-1	Acetone	4.70	U	4.70	25.0	ug/Kg
75-15-0	Carbon Disulfide	1.10	U	1.10	5.00	ug/Kg
1634-04-4	Methyl tert-butyl Ether	0.73	U	0.73	5.00	ug/Kg
75-09-2	Methylene Chloride	3.50	U	3.50	10.0	ug/Kg
156-60-5	trans-1,2-Dichloroethene	0.86	U	0.86	5.00	ug/Kg
75-34-3	1,1-Dichloroethane	0.80	U	0.80	5.00	ug/Kg
78-93-3	2-Butanone	6.50	U	6.50	25.0	ug/Kg
56-23-5	Carbon Tetrachloride	0.97	U	0.97	5.00	ug/Kg
156-59-2	cis-1,2-Dichloroethene	0.75	U	0.75	5.00	ug/Kg
67-66-3	Chloroform	0.84	U	0.84	5.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.93	U	0.93	5.00	ug/Kg
71-43-2	Benzene	0.79	U	0.79	5.00	ug/Kg
107-06-2	1,2-Dichloroethane	0.79	U	0.79	5.00	ug/Kg
79-01-6	Trichloroethene	0.81	U	0.81	5.00	ug/Kg
78-87-5	1,2-Dichloropropane	0.91	U	0.91	5.00	ug/Kg
75-27-4	Bromodichloromethane	0.78	U	0.78	5.00	ug/Kg
108-10-1	4-Methyl-2-Pentanone	3.60	U	3.60	25.0	ug/Kg
108-88-3	Toluene	0.78	U	0.78	5.00	ug/Kg
10061-02-6	t-1,3-Dichloropropene	0.65	U	0.65	5.00	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	0.62	U	0.62	5.00	ug/Kg
79-00-5	1,1,2-Trichloroethane	0.92	U	0.92	5.00	ug/Kg
591-78-6	2-Hexanone	3.70	U	3.70	25.0	ug/Kg
124-48-1	Dibromochloromethane	0.87	U	0.87	5.00	ug/Kg
127-18-4	Tetrachloroethene	1.10	U	1.10	5.00	ug/Kg

Report of Analysis

Client:	G Environmental	Date Collected:	
Project:	Dover	Date Received:	
Client Sample ID:	VY0521SBL01	SDG No.:	Q2056
Lab Sample ID:	VY0521SBL01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY022355.D	1		05/21/25 10:05	VY052125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
108-90-7	Chlorobenzene	0.91	U	0.91	5.00	ug/Kg
100-41-4	Ethyl Benzene	0.67	U	0.67	5.00	ug/Kg
179601-23-1	m/p-Xylenes	1.20	U	1.20	10.0	ug/Kg
95-47-6	o-Xylene	0.82	U	0.82	5.00	ug/Kg
100-42-5	Styrene	0.71	U	0.71	5.00	ug/Kg
75-25-2	Bromoform	0.86	U	0.86	5.00	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	1.20	U	1.20	5.00	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	42.6		63 - 155	85%	SPK: 50
1868-53-7	Dibromofluoromethane	48.1		70 - 134	96%	SPK: 50
2037-26-5	Toluene-d8	48.7		74 - 123	97%	SPK: 50
460-00-4	4-Bromofluorobenzene	50.3		38 - 136	101%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	262000	7.713			
540-36-3	1,4-Difluorobenzene	457000	8.615			
3114-55-4	Chlorobenzene-d5	350000	11.42			
3855-82-1	1,4-Dichlorobenzene-d4	119000	13.352			

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Report of Analysis

Client:	G Environmental		Date Collected:	
Project:	Dover		Date Received:	
Client Sample ID:	VY0519SBS01		SDG No.:	Q2056
Lab Sample ID:	VY0519SBS01		Matrix:	SOIL
Analytical Method:	8260D		% Solid:	100
Sample Wt/Vol:	5	Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group1
GC Column:	RXI-624	ID : 0.25	Level :	LOW
Prep Method :				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY022305.D	1		05/19/25 09:36	VY051925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
74-87-3	Chloromethane	26.6		1.10	5.00	ug/Kg
75-01-4	Vinyl Chloride	26.8		0.79	5.00	ug/Kg
74-83-9	Bromomethane	32.0		1.10	5.00	ug/Kg
75-00-3	Chloroethane	29.0		1.30	5.00	ug/Kg
75-65-0	Tert butyl alcohol	97.3		13.7	25.0	ug/Kg
75-35-4	1,1-Dichloroethene	20.8		1.00	5.00	ug/Kg
67-64-1	Acetone	88.8		4.70	25.0	ug/Kg
75-15-0	Carbon Disulfide	20.8		1.10	5.00	ug/Kg
1634-04-4	Methyl tert-butyl Ether	20.5		0.73	5.00	ug/Kg
75-09-2	Methylene Chloride	18.7		3.50	10.0	ug/Kg
156-60-5	trans-1,2-Dichloroethene	20.4		0.86	5.00	ug/Kg
75-34-3	1,1-Dichloroethane	20.3		0.80	5.00	ug/Kg
78-93-3	2-Butanone	90.9		6.50	25.0	ug/Kg
56-23-5	Carbon Tetrachloride	20.7		0.97	5.00	ug/Kg
156-59-2	cis-1,2-Dichloroethene	20.5		0.75	5.00	ug/Kg
67-66-3	Chloroform	20.9		0.84	5.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	21.2		0.93	5.00	ug/Kg
71-43-2	Benzene	20.2		0.79	5.00	ug/Kg
107-06-2	1,2-Dichloroethane	20.3		0.79	5.00	ug/Kg
79-01-6	Trichloroethene	20.4		0.81	5.00	ug/Kg
78-87-5	1,2-Dichloropropane	19.8		0.91	5.00	ug/Kg
75-27-4	Bromodichloromethane	20.3		0.78	5.00	ug/Kg
108-10-1	4-Methyl-2-Pentanone	95.8		3.60	25.0	ug/Kg
108-88-3	Toluene	19.9		0.78	5.00	ug/Kg
10061-02-6	t-1,3-Dichloropropene	19.4		0.65	5.00	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	20.1		0.62	5.00	ug/Kg
79-00-5	1,1,2-Trichloroethane	20.5		0.92	5.00	ug/Kg
591-78-6	2-Hexanone	92.6		3.70	25.0	ug/Kg
124-48-1	Dibromochloromethane	20.3		0.87	5.00	ug/Kg
127-18-4	Tetrachloroethene	20.4		1.10	5.00	ug/Kg

Report of Analysis

Client:	G Environmental	Date Collected:	
Project:	Dover	Date Received:	
Client Sample ID:	VY0519SBS01	SDG No.:	Q2056
Lab Sample ID:	VY0519SBS01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY022305.D	1		05/19/25 09:36	VY051925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
108-90-7	Chlorobenzene	20.3		0.91	5.00	ug/Kg
100-41-4	Ethyl Benzene	19.8		0.67	5.00	ug/Kg
179601-23-1	m/p-Xylenes	40.0		1.20	10.0	ug/Kg
95-47-6	o-Xylene	19.6		0.82	5.00	ug/Kg
100-42-5	Styrene	19.6		0.71	5.00	ug/Kg
75-25-2	Bromoform	19.7		0.86	5.00	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	20.4		1.20	5.00	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	51.3		63 - 155	103%	SPK: 50
1868-53-7	Dibromofluoromethane	51.1		70 - 134	102%	SPK: 50
2037-26-5	Toluene-d8	51.1		74 - 123	102%	SPK: 50
460-00-4	4-Bromofluorobenzene	48.4		38 - 136	97%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	200000	7.707			
540-36-3	1,4-Difluorobenzene	338000	8.616			
3114-55-4	Chlorobenzene-d5	283000	11.42			
3855-82-1	1,4-Dichlorobenzene-d4	134000	13.347			

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Report of Analysis

Client:	G Environmental		Date Collected:	
Project:	Dover		Date Received:	
Client Sample ID:	VY0520SBS01		SDG No.:	Q2056
Lab Sample ID:	VY0520SBS01		Matrix:	SOIL
Analytical Method:	8260D		% Solid:	100
Sample Wt/Vol:	5	Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group1
GC Column:	RXI-624	ID : 0.25	Level :	LOW
Prep Method :				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY022331.D	1		05/20/25 10:21	VY052025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
74-87-3	Chloromethane	29.7		1.10	5.00	ug/Kg
75-01-4	Vinyl Chloride	30.5		0.79	5.00	ug/Kg
74-83-9	Bromomethane	37.9		1.10	5.00	ug/Kg
75-00-3	Chloroethane	35.1		1.30	5.00	ug/Kg
75-65-0	Tert butyl alcohol	110		13.7	25.0	ug/Kg
75-35-4	1,1-Dichloroethene	22.1		1.00	5.00	ug/Kg
67-64-1	Acetone	100		4.70	25.0	ug/Kg
75-15-0	Carbon Disulfide	21.4		1.10	5.00	ug/Kg
1634-04-4	Methyl tert-butyl Ether	22.0		0.73	5.00	ug/Kg
75-09-2	Methylene Chloride	20.1		3.50	10.0	ug/Kg
156-60-5	trans-1,2-Dichloroethene	21.6		0.86	5.00	ug/Kg
75-34-3	1,1-Dichloroethane	21.4		0.80	5.00	ug/Kg
78-93-3	2-Butanone	100		6.50	25.0	ug/Kg
56-23-5	Carbon Tetrachloride	20.7		0.97	5.00	ug/Kg
156-59-2	cis-1,2-Dichloroethene	21.7		0.75	5.00	ug/Kg
67-66-3	Chloroform	22.3		0.84	5.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	21.5		0.93	5.00	ug/Kg
71-43-2	Benzene	20.8		0.79	5.00	ug/Kg
107-06-2	1,2-Dichloroethane	21.3		0.79	5.00	ug/Kg
79-01-6	Trichloroethene	20.6		0.81	5.00	ug/Kg
78-87-5	1,2-Dichloropropane	20.4		0.91	5.00	ug/Kg
75-27-4	Bromodichloromethane	20.9		0.78	5.00	ug/Kg
108-10-1	4-Methyl-2-Pentanone	100		3.60	25.0	ug/Kg
108-88-3	Toluene	20.0		0.78	5.00	ug/Kg
10061-02-6	t-1,3-Dichloropropene	20.1		0.65	5.00	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	20.2		0.62	5.00	ug/Kg
79-00-5	1,1,2-Trichloroethane	21.1		0.92	5.00	ug/Kg
591-78-6	2-Hexanone	97.7		3.70	25.0	ug/Kg
124-48-1	Dibromochloromethane	20.4		0.87	5.00	ug/Kg
127-18-4	Tetrachloroethene	21.6		1.10	5.00	ug/Kg

Report of Analysis

Client:	G Environmental	Date Collected:	
Project:	Dover	Date Received:	
Client Sample ID:	VY0520SBS01	SDG No.:	Q2056
Lab Sample ID:	VY0520SBS01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY022331.D	1		05/20/25 10:21	VY052025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
108-90-7	Chlorobenzene	20.5		0.91	5.00	ug/Kg
100-41-4	Ethyl Benzene	19.8		0.67	5.00	ug/Kg
179601-23-1	m/p-Xylenes	39.6		1.20	10.0	ug/Kg
95-47-6	o-Xylene	20.2		0.82	5.00	ug/Kg
100-42-5	Styrene	19.7		0.71	5.00	ug/Kg
75-25-2	Bromoform	20.7		0.86	5.00	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	20.7		1.20	5.00	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	52.8		63 - 155	106%	SPK: 50
1868-53-7	Dibromofluoromethane	52.0		70 - 134	104%	SPK: 50
2037-26-5	Toluene-d8	51.5		74 - 123	103%	SPK: 50
460-00-4	4-Bromofluorobenzene	47.7		38 - 136	95%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	162000	7.707			
540-36-3	1,4-Difluorobenzene	281000	8.616			
3114-55-4	Chlorobenzene-d5	237000	11.42			
3855-82-1	1,4-Dichlorobenzene-d4	111000	13.347			

U = Not Detected

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J = Estimated Value

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N = Presumptive Evidence of a Compound

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D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Report of Analysis

Client:	G Environmental		Date Collected:	
Project:	Dover		Date Received:	
Client Sample ID:	VY0521SBS01		SDG No.:	Q2056
Lab Sample ID:	VY0521SBS01		Matrix:	SOIL
Analytical Method:	8260D		% Solid:	100
Sample Wt/Vol:	5	Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group1
GC Column:	RXI-624	ID : 0.25	Level :	LOW
Prep Method :				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY022356.D	1		05/21/25 10:35	VY052125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
74-87-3	Chloromethane	26.9		1.10	5.00	ug/Kg
75-01-4	Vinyl Chloride	27.4		0.79	5.00	ug/Kg
74-83-9	Bromomethane	37.2		1.10	5.00	ug/Kg
75-00-3	Chloroethane	32.9		1.30	5.00	ug/Kg
75-65-0	Tert butyl alcohol	100		13.7	25.0	ug/Kg
75-35-4	1,1-Dichloroethene	21.1		1.00	5.00	ug/Kg
67-64-1	Acetone	94.0		4.70	25.0	ug/Kg
75-15-0	Carbon Disulfide	20.3		1.10	5.00	ug/Kg
1634-04-4	Methyl tert-butyl Ether	21.2		0.73	5.00	ug/Kg
75-09-2	Methylene Chloride	19.5		3.50	10.0	ug/Kg
156-60-5	trans-1,2-Dichloroethene	20.6		0.86	5.00	ug/Kg
75-34-3	1,1-Dichloroethane	20.3		0.80	5.00	ug/Kg
78-93-3	2-Butanone	96.3		6.50	25.0	ug/Kg
56-23-5	Carbon Tetrachloride	19.8		0.97	5.00	ug/Kg
156-59-2	cis-1,2-Dichloroethene	21.0		0.75	5.00	ug/Kg
67-66-3	Chloroform	20.8		0.84	5.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	20.1		0.93	5.00	ug/Kg
71-43-2	Benzene	20.2		0.79	5.00	ug/Kg
107-06-2	1,2-Dichloroethane	20.4		0.79	5.00	ug/Kg
79-01-6	Trichloroethene	20.2		0.81	5.00	ug/Kg
78-87-5	1,2-Dichloropropane	19.8		0.91	5.00	ug/Kg
75-27-4	Bromodichloromethane	20.3		0.78	5.00	ug/Kg
108-10-1	4-Methyl-2-Pentanone	96.4		3.60	25.0	ug/Kg
108-88-3	Toluene	19.9		0.78	5.00	ug/Kg
10061-02-6	t-1,3-Dichloropropene	19.4		0.65	5.00	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	19.9		0.62	5.00	ug/Kg
79-00-5	1,1,2-Trichloroethane	20.8		0.92	5.00	ug/Kg
591-78-6	2-Hexanone	95.9		3.70	25.0	ug/Kg
124-48-1	Dibromochloromethane	20.7		0.87	5.00	ug/Kg
127-18-4	Tetrachloroethene	20.4		1.10	5.00	ug/Kg

Report of Analysis

Client:	G Environmental	Date Collected:	
Project:	Dover	Date Received:	
Client Sample ID:	VY0521SBS01	SDG No.:	Q2056
Lab Sample ID:	VY0521SBS01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY022356.D	1		05/21/25 10:35	VY052125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
108-90-7	Chlorobenzene	20.2		0.91	5.00	ug/Kg
100-41-4	Ethyl Benzene	19.3		0.67	5.00	ug/Kg
179601-23-1	m/p-Xylenes	38.7		1.20	10.0	ug/Kg
95-47-6	o-Xylene	19.4		0.82	5.00	ug/Kg
100-42-5	Styrene	19.1		0.71	5.00	ug/Kg
75-25-2	Bromoform	19.3		0.86	5.00	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	20.9		1.20	5.00	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	48.2		63 - 155	96%	SPK: 50
1868-53-7	Dibromofluoromethane	48.4		70 - 134	97%	SPK: 50
2037-26-5	Toluene-d8	47.9		74 - 123	96%	SPK: 50
460-00-4	4-Bromofluorobenzene	45.4		38 - 136	91%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	165000	7.713			
540-36-3	1,4-Difluorobenzene	280000	8.622			
3114-55-4	Chlorobenzene-d5	238000	11.42			
3855-82-1	1,4-Dichlorobenzene-d4	110000	13.352			

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J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

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Report of Analysis

Client:	G Environmental		Date Collected:	
Project:	Dover		Date Received:	
Client Sample ID:	VY0519SBSD01		SDG No.:	Q2056
Lab Sample ID:	VY0519SBSD01		Matrix:	SOIL
Analytical Method:	8260D		% Solid:	100
Sample Wt/Vol:	5	Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group1
GC Column:	RXI-624	ID : 0.25	Level :	LOW
Prep Method :				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY022306.D	1		05/19/25 09:59	VY051925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
74-87-3	Chloromethane	26.7		1.10	5.00	ug/Kg
75-01-4	Vinyl Chloride	27.0		0.79	5.00	ug/Kg
74-83-9	Bromomethane	32.1		1.10	5.00	ug/Kg
75-00-3	Chloroethane	29.6		1.30	5.00	ug/Kg
75-65-0	Tert butyl alcohol	95.3		13.7	25.0	ug/Kg
75-35-4	1,1-Dichloroethene	21.7		1.00	5.00	ug/Kg
67-64-1	Acetone	83.4		4.70	25.0	ug/Kg
75-15-0	Carbon Disulfide	21.2		1.10	5.00	ug/Kg
1634-04-4	Methyl tert-butyl Ether	20.8		0.73	5.00	ug/Kg
75-09-2	Methylene Chloride	19.6		3.50	10.0	ug/Kg
156-60-5	trans-1,2-Dichloroethene	21.3		0.86	5.00	ug/Kg
75-34-3	1,1-Dichloroethane	20.7		0.80	5.00	ug/Kg
78-93-3	2-Butanone	92.1		6.50	25.0	ug/Kg
56-23-5	Carbon Tetrachloride	20.6		0.97	5.00	ug/Kg
156-59-2	cis-1,2-Dichloroethene	21.1		0.75	5.00	ug/Kg
67-66-3	Chloroform	21.5		0.84	5.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	21.0		0.93	5.00	ug/Kg
71-43-2	Benzene	20.7		0.79	5.00	ug/Kg
107-06-2	1,2-Dichloroethane	20.2		0.79	5.00	ug/Kg
79-01-6	Trichloroethene	20.7		0.81	5.00	ug/Kg
78-87-5	1,2-Dichloropropane	20.2		0.91	5.00	ug/Kg
75-27-4	Bromodichloromethane	20.5		0.78	5.00	ug/Kg
108-10-1	4-Methyl-2-Pentanone	94.3		3.60	25.0	ug/Kg
108-88-3	Toluene	20.2		0.78	5.00	ug/Kg
10061-02-6	t-1,3-Dichloropropene	19.6		0.65	5.00	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	20.3		0.62	5.00	ug/Kg
79-00-5	1,1,2-Trichloroethane	20.8		0.92	5.00	ug/Kg
591-78-6	2-Hexanone	92.4		3.70	25.0	ug/Kg
124-48-1	Dibromochloromethane	19.9		0.87	5.00	ug/Kg
127-18-4	Tetrachloroethene	20.3		1.10	5.00	ug/Kg



CALIBRATION SUMMARY

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: GENV01
Lab Code: CHEM Case No.: Q2056 SAS No.: Q2056 SDG No.: Q2056
Instrument ID: MSVOA_Y Calibration Date(s): 05/15/2025 05/15/2025
Heated Purge: (Y/N) Y Calibration Time(s): 09:46 11:47
GC Column: RXI-624 ID: 0.25 (mm)

LAB FILE ID:	RRF005 = VY022253.D	RRF010 = VY022254.D	RRF020 = VY022255.D	RRF050 = VY022256.D	RRF100 = VY022257.D	RRF150 = VY022258.D		
COMPOUND	RRF005	RRF010	RRF020	RRF050	RRF100	RRF150	RRF	% RSD
Chloromethane	1.212	1.237	1.153	1.042	1.046	0.894	1.097	11.7
Vinyl Chloride	1.265	1.317	1.264	1.210	1.190	1.110	1.226	5.9
Bromomethane	1.107	1.033	1.058	0.877	0.955	0.959	0.998	8.3
Chloroethane	0.751	0.814	0.796	0.756	0.733	0.727	0.763	4.6
Tert butyl alcohol	0.045	0.045	0.037	0.039	0.042	0.042	0.042	7.7
1,1-Dichloroethene	0.545	0.544	0.540	0.539	0.518	0.523	0.535	2.2
Acetone	0.126	0.114	0.096	0.093	0.094	0.092	0.102	13.6
Carbon Disulfide	1.768	1.822	1.764	1.753	1.679	1.679	1.744	3.2
Methyl tert-butyl Ether	1.463	1.523	1.393	1.459	1.504	1.507	1.475	3.2
Methylene Chloride	0.797	0.811	0.646	0.597	0.570	0.552	0.662	17.3
trans-1,2-Dichloroethene	0.577	0.609	0.603	0.592	0.580	0.581	0.590	2.2
1,1-Dichloroethane	1.112	1.136	1.099	1.117	1.093	1.082	1.106	1.7
2-Butanone	0.180	0.181	0.158	0.161	0.174	0.174	0.171	5.6
Carbon Tetrachloride	0.485	0.524	0.494	0.516	0.509	0.524	0.509	3.2
cis-1,2-Dichloroethene	0.662	0.687	0.668	0.691	0.687	0.693	0.681	1.9
Chloroform	1.032	1.079	1.067	1.079	1.054	1.057	1.061	1.7
1,1,1-Trichloroethane	1.007	0.997	0.960	0.969	0.944	0.964	0.974	2.4
Benzene	1.369	1.462	1.435	1.499	1.482	1.496	1.457	3.4
1,2-Dichloroethane	0.381	0.399	0.378	0.402	0.403	0.402	0.394	2.9
Trichloroethene	0.358	0.366	0.361	0.371	0.356	0.363	0.362	1.5
1,2-Dichloropropane	0.337	0.361	0.344	0.357	0.354	0.355	0.351	2.6
Bromodichloromethane	0.466	0.494	0.476	0.506	0.504	0.504	0.492	3.4
4-Methyl-2-Pentanone	0.238	0.247	0.230	0.253	0.275	0.275	0.253	7.4
Toluene	0.871	0.924	0.890	0.944	0.947	0.961	0.923	3.8
t-1,3-Dichloropropene	0.464	0.473	0.457	0.487	0.498	0.499	0.480	3.7
cis-1,3-Dichloropropene	0.523	0.548	0.535	0.562	0.562	0.568	0.550	3.2
1,1,2-Trichloroethane	0.241	0.243	0.232	0.243	0.248	0.249	0.243	2.4
2-Hexanone	0.167	0.167	0.151	0.166	0.183	0.185	0.170	7.4
Dibromochloromethane	0.296	0.314	0.298	0.323	0.329	0.330	0.315	4.9
Tetrachloroethene	0.474	0.481	0.470	0.474	0.446	0.429	0.462	4.4

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

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: GENV01

Lab Code: CHEM Case No.: Q2056 SAS No.: Q2056 SDG No.: Q2056

Instrument ID: MSVOA_Y Calibration Date(s): 05/15/2025 05/15/2025

Heated Purge: (Y/N) Y Calibration Time(s): 09:46 11:47

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

LAB FILE ID:		RRF005 = VY022253.D		RRF010 = VY022254.D		RRF020 = VY022255.D		
		RRF050 = VY022256.D		RRF100 = VY022257.D		RRF150 = VY022258.D		
COMPOUND	RRF005	RRF010	RRF020	RRF050	RRF100	RRF150	RRF	% RSD
Chlorobenzene	1.112	1.110	1.106	1.154	1.143	1.143	1.128	1.9
Ethyl Benzene	2.014	2.043	2.049	2.175	2.173	2.222	2.113	4.1
m/p-Xylenes	0.749	0.770	0.763	0.818	0.825	0.852	0.796	5.2
o-Xylene	0.704	0.741	0.723	0.768	0.782	0.802	0.753	4.9
Styrene	1.182	1.214	1.210	1.303	1.335	1.380	1.270	6.3
Bromoform	0.202	0.214	0.194	0.209	0.219	0.217	0.209	4.5
1,1,2,2-Tetrachloroethane	0.656	0.647	0.581	0.628	0.645	0.666	0.637	4.8
1,2-Dichloroethane-d4	0.547	0.559	0.527	0.541	0.545	0.560	0.546	2.2
Dibromofluoromethane	0.294	0.294	0.294	0.301	0.297	0.310	0.298	2.2
Toluene-d8	1.224	1.200	1.195	1.230	1.214	1.272	1.222	2.3
4-Bromofluorobenzene	0.390	0.386	0.368	0.387	0.387	0.407	0.387	3.3

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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: GENV01

Lab Code: CHEM Case No.: Q2056 SAS No.: Q2056 SDG No.: Q2056

Instrument ID: MSVOA_Y Calibration Date/Time: 05/19/2025 08:27

Lab File ID: VY022303.D Init. Calib. Date(s): 05/15/2025 05/15/2025

Heated Purge: (Y/N) Y Init. Calib. Time(s): 09:46 11:47

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Chloromethane	1.097	1.063	0.1	-3.1	20
Vinyl Chloride	1.226	1.243		1.39	20
Bromomethane	0.998	0.978		-2	20
Chloroethane	0.763	0.831		8.91	20
Tert butyl alcohol	0.042	0.035		-16.67	20
1,1-Dichloroethene	0.535	0.519		-2.99	20
Acetone	0.102	0.081		-20.59	20
Carbon Disulfide	1.744	1.645		-5.68	20
Methyl tert-butyl Ether	1.475	1.322		-10.37	20
Methylene Chloride	0.662	0.542		-18.13	20
trans-1,2-Dichloroethene	0.590	0.560		-5.09	20
1,1-Dichloroethane	1.106	1.030	0.1	-6.87	20
2-Butanone	0.171	0.138		-19.3	20
Carbon Tetrachloride	0.509	0.500		-1.77	20
cis-1,2-Dichloroethene	0.681	0.638		-6.31	20
Chloroform	1.061	1.007		-5.09	20
1,1,1-Trichloroethane	0.974	0.929		-4.62	20
Benzene	1.457	1.393		-4.39	20
1,2-Dichloroethane	0.394	0.360		-8.63	20
Trichloroethene	0.362	0.349		-3.59	20
1,2-Dichloropropane	0.351	0.327		-6.84	20
Bromodichloromethane	0.492	0.465		-5.49	20
4-Methyl-2-Pentanone	0.253	0.213		-15.81	20
Toluene	0.923	0.871		-5.63	20
t-1,3-Dichloropropene	0.480	0.439		-8.54	20
cis-1,3-Dichloropropene	0.550	0.509		-7.45	20
1,1,2-Trichloroethane	0.243	0.216		-11.11	20
2-Hexanone	0.170	0.140		-17.65	20
Dibromochloromethane	0.315	0.296		-6.03	20
Tetrachloroethene	0.462	0.450		-2.6	20
Chlorobenzene	1.128	1.083	0.3	-3.99	20
Ethyl Benzene	2.113	2.049		-3.03	20
m/p-Xylenes	0.796	0.767		-3.64	20
o-Xylene	0.753	0.714		-5.18	20
Styrene	1.270	1.195		-5.91	20
Bromoform	0.209	0.190	0.1	-9.09	20
1,1,2,2-Tetrachloroethane	0.637	0.599	0.3	-5.97	20
1,2-Dichloroethane-d4	0.546	0.506		-7.33	20

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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: GENV01

Lab Code: CHEM Case No.: Q2056 SAS No.: Q2056 SDG No.: Q2056

Instrument ID: MSVOA_Y Calibration Date/Time: 05/19/2025 08:27

Lab File ID: VY022303.D Init. Calib. Date(s): 05/15/2025 05/15/2025

Heated Purge: (Y/N) Y Init. Calib. Time(s): 09:46 11:47

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dibromofluoromethane	0.298	0.288		-3.36	20
Toluene-d8	1.222	1.187		-2.86	20
4-Bromofluorobenzene	0.387	0.356		-8.01	20

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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: GENV01

Lab Code: CHEM Case No.: Q2056 SAS No.: Q2056 SDG No.: Q2056

Instrument ID: MSVOA_Y Calibration Date/Time: 05/20/2025 08:40

Lab File ID: VY022329.D Init. Calib. Date(s): 05/15/2025 05/15/2025

Heated Purge: (Y/N) Y Init. Calib. Time(s): 09:46 11:47

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Chloromethane	1.097	1.094	0.1	-0.27	20
Vinyl Chloride	1.226	1.524		24.31	20
Bromomethane	0.998	1.160		16.23	20
Chloroethane	0.763	1.012		32.63	20
Tert butyl alcohol	0.042	0.036		-14.29	20
1,1-Dichloroethene	0.535	0.534		-0.19	20
Acetone	0.102	0.091		-10.78	20
Carbon Disulfide	1.744	1.711		-1.89	20
Methyl tert-butyl Ether	1.475	1.383		-6.24	20
Methylene Chloride	0.662	0.582		-12.09	20
trans-1,2-Dichloroethene	0.590	0.583		-1.19	20
1,1-Dichloroethane	1.106	1.085	0.1	-1.9	20
2-Butanone	0.171	0.147		-14.03	20
Carbon Tetrachloride	0.509	0.517		1.57	20
cis-1,2-Dichloroethene	0.681	0.683		0.29	20
Chloroform	1.061	1.059		-0.19	20
1,1,1-Trichloroethane	0.974	0.966		-0.82	20
Benzene	1.457	1.473		1.1	20
1,2-Dichloroethane	0.394	0.380		-3.55	20
Trichloroethene	0.362	0.364		0.55	20
1,2-Dichloropropane	0.351	0.346		-1.42	20
Bromodichloromethane	0.492	0.489		-0.61	20
4-Methyl-2-Pentanone	0.253	0.220		-13.04	20
Toluene	0.923	0.912		-1.19	20
t-1,3-Dichloropropene	0.480	0.458		-4.58	20
cis-1,3-Dichloropropene	0.550	0.528		-4	20
1,1,2-Trichloroethane	0.243	0.233		-4.11	20
2-Hexanone	0.170	0.145		-14.71	20
Dibromochloromethane	0.315	0.304		-3.49	20
Tetrachloroethene	0.462	0.471		1.95	20
Chlorobenzene	1.128	1.122	0.3	-0.53	20
Ethyl Benzene	2.113	2.120		0.33	20
m/p-Xylenes	0.796	0.803		0.88	20
o-Xylene	0.753	0.738		-1.99	20
Styrene	1.270	1.255		-1.18	20
Bromoform	0.209	0.191	0.1	-8.61	20
1,1,2,2-Tetrachloroethane	0.637	0.595	0.3	-6.59	20
1,2-Dichloroethane-d4	0.546	0.533		-2.38	20

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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: GENV01

Lab Code: CHEM Case No.: Q2056 SAS No.: Q2056 SDG No.: Q2056

Instrument ID: MSVOA_Y Calibration Date/Time: 05/20/2025 08:40

Lab File ID: VY022329.D Init. Calib. Date(s): 05/15/2025 05/15/2025

Heated Purge: (Y/N) Y Init. Calib. Time(s): 09:46 11:47

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dibromofluoromethane	0.298	0.305		2.35	20
Toluene-d8	1.222	1.259		3.03	20
4-Bromofluorobenzene	0.387	0.375		-3.1	20

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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: GENV01

Lab Code: CHEM Case No.: Q2056 SAS No.: Q2056 SDG No.: Q2056

Instrument ID: MSVOA_Y Calibration Date/Time: 05/21/2025 09:33

Lab File ID: VY022354.D Init. Calib. Date(s): 05/15/2025 05/15/2025

Heated Purge: (Y/N) Y Init. Calib. Time(s): 09:46 11:47

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Chloromethane	1.097	1.290	0.1	17.59	20
Vinyl Chloride	1.226	1.539		25.53	20
Bromomethane	0.998	1.409		41.18	20
Chloroethane	0.763	1.105		44.69	20
Tert butyl alcohol	0.042	0.036		-14.29	20
1,1-Dichloroethene	0.535	0.539		0.75	20
Acetone	0.102	0.081		-20.59	20
Carbon Disulfide	1.744	1.671		-4.19	20
Methyl tert-butyl Ether	1.475	1.411		-4.34	20
Methylene Chloride	0.662	0.589		-11.03	20
trans-1,2-Dichloroethene	0.590	0.587		-0.51	20
1,1-Dichloroethane	1.106	1.086	0.1	-1.81	20
2-Butanone	0.171	0.140		-18.13	20
Carbon Tetrachloride	0.509	0.504		-0.98	20
cis-1,2-Dichloroethene	0.681	0.680		-0.15	20
Chloroform	1.061	1.076		1.41	20
1,1,1-Trichloroethane	0.974	0.959		-1.54	20
Benzene	1.457	1.462		0.34	20
1,2-Dichloroethane	0.394	0.380		-3.55	20
Trichloroethene	0.362	0.361		-0.28	20
1,2-Dichloropropane	0.351	0.344		-1.99	20
Bromodichloromethane	0.492	0.488		-0.81	20
4-Methyl-2-Pentanone	0.253	0.218		-13.83	20
Toluene	0.923	0.907		-1.73	20
t-1,3-Dichloropropene	0.480	0.454		-5.42	20
cis-1,3-Dichloropropene	0.550	0.532		-3.27	20
1,1,2-Trichloroethane	0.243	0.239		-1.65	20
2-Hexanone	0.170	0.144		-15.29	20
Dibromochloromethane	0.315	0.315		0	20
Tetrachloroethene	0.462	0.450		-2.6	20
Chlorobenzene	1.128	1.102	0.3	-2.31	20
Ethyl Benzene	2.113	2.073		-1.89	20
m/p-Xylenes	0.796	0.779		-2.14	20
o-Xylene	0.753	0.748		-0.66	20
Styrene	1.270	1.247		-1.81	20
Bromoform	0.209	0.194	0.1	-7.18	20
1,1,2,2-Tetrachloroethane	0.637	0.611	0.3	-4.08	20
1,2-Dichloroethane-d4	0.546	0.529		-3.11	20

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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: GENV01

Lab Code: CHEM Case No.: Q2056 SAS No.: Q2056 SDG No.: Q2056

Instrument ID: MSVOA_Y Calibration Date/Time: 05/21/2025 09:33

Lab File ID: VY022354.D Init. Calib. Date(s): 05/15/2025 05/15/2025

Heated Purge: (Y/N) Y Init. Calib. Time(s): 09:46 11:47

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dibromofluoromethane	0.298	0.305		2.35	20
Toluene-d8	1.222	1.247		2.05	20
4-Bromofluorobenzene	0.387	0.377		-2.58	20

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



SAMPLE RAW DATA

5

A

B

C

D

E

F

G

H

I

J

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY051925\
 Data File : VY022326.D
 Acq On : 19 May 2025 18:06
 Operator : SY/MD
 Sample : Q2056-01
 Misc : 5.56g/5.0mL/MSVOA_Y/SOIL/B
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 GVD11

Quant Time: May 20 01:17:36 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
 Quant Title : SW846 8260
 QLast Update : Fri May 16 01:42:09 2025
 Response via : Initial Calibration

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

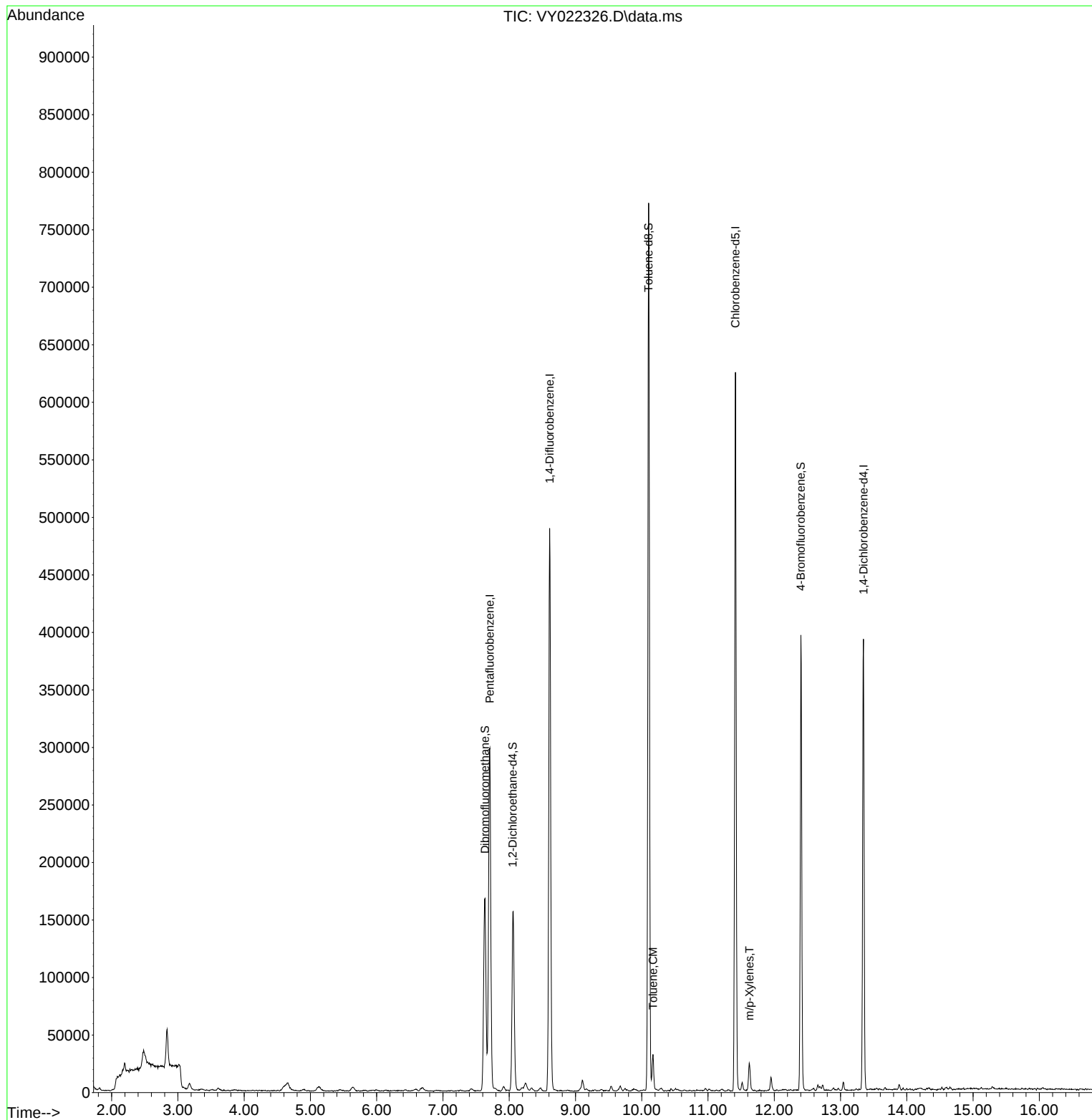
Internal Standards						
1) Pentafluorobenzene	7.707	168	223481	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.610	114	406573	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	303031	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.347	152	89910	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.055	65	118272	48.424	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	96.840%
35) Dibromofluoromethane	7.634	113	119461	49.228	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	98.460%
50) Toluene-d8	10.103	98	475704	47.864	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	95.720%
62) 4-Bromofluorobenzene	12.402	95	110208	34.985	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	=	69.960%
Target Compounds						
					Qvalue	
52) Toluene	10.170	92	11893	1.585	ug/l	96
68) m/p-Xylenes	11.627	106	6737	1.396	ug/l	95

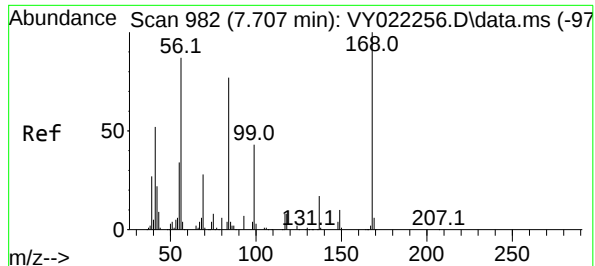
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY051925\
Data File : VY022326.D
Acq On : 19 May 2025 18:06
Operator : SY/MD
Sample : Q2056-01
Misc : 5.56g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 25 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
GVD11

Quant Time: May 20 01:17:36 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:42:09 2025
Response via : Initial Calibration

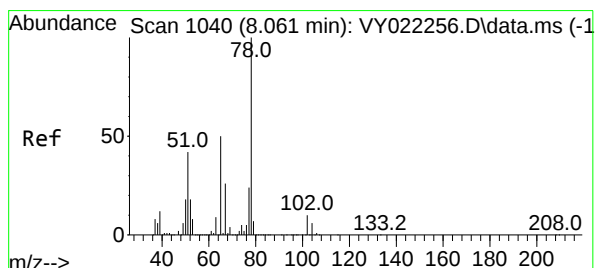
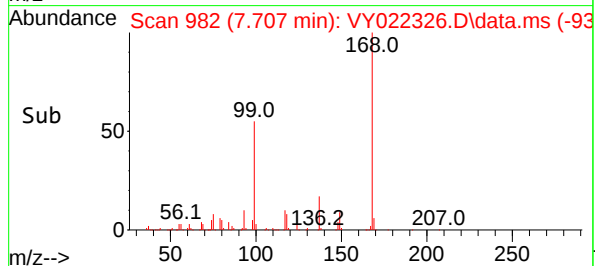
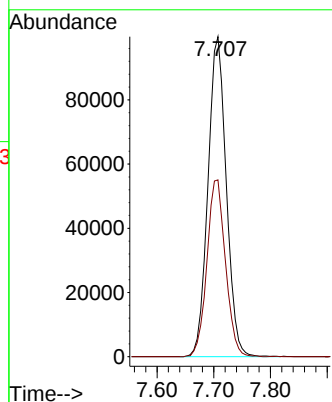
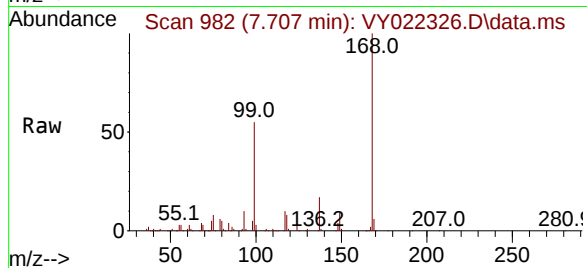




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 982
Delta R.T. 0.000 min
Lab File: VY022326.D
Acq: 19 May 2025 18:06

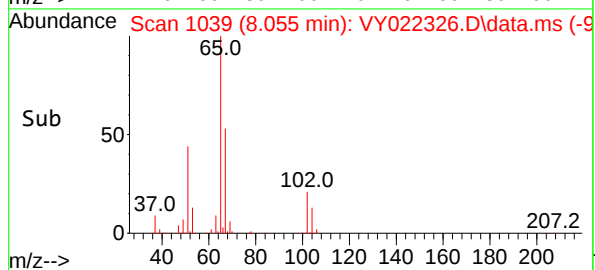
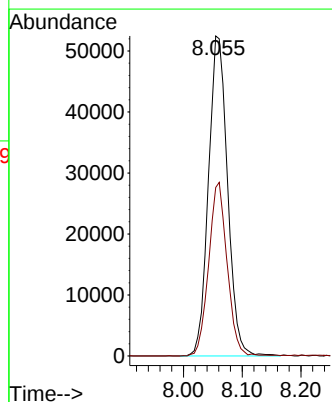
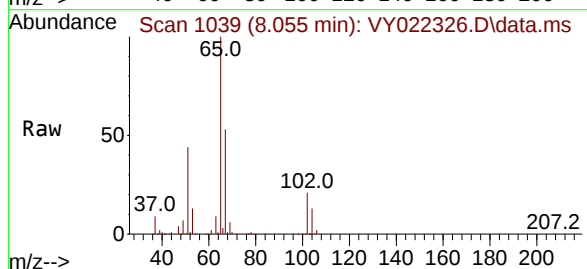
Instrument :
MSVOA_Y
ClientSampleId :
GVD11

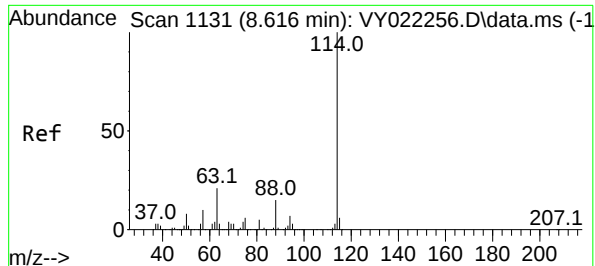
Tgt Ion:168 Resp: 223481
Ion Ratio Lower Upper
168 100
99 55.3 44.2 66.4



#33
1,2-Dichloroethane-d4
Concen: 48.424 ug/l
RT: 8.055 min Scan# 1039
Delta R.T. -0.006 min
Lab File: VY022326.D
Acq: 19 May 2025 18:06

Tgt Ion: 65 Resp: 118272
Ion Ratio Lower Upper
65 100
67 52.6 0.0 104.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.610 min Scan# 1131

Delta R.T. -0.006 min

Lab File: VY022326.D

Acq: 19 May 2025 18:06

Instrument :

MSVOA_Y

ClientSampleId :

GVD11

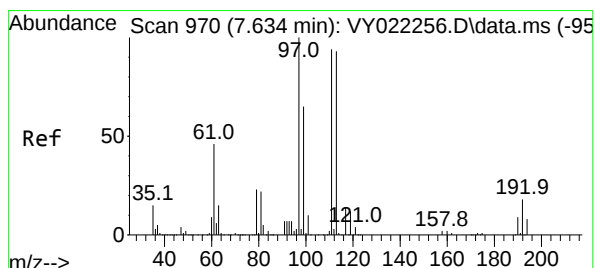
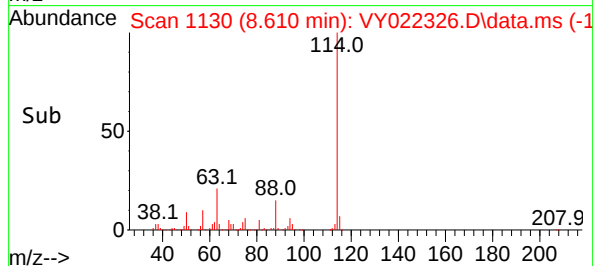
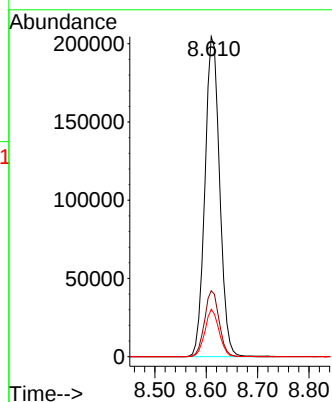
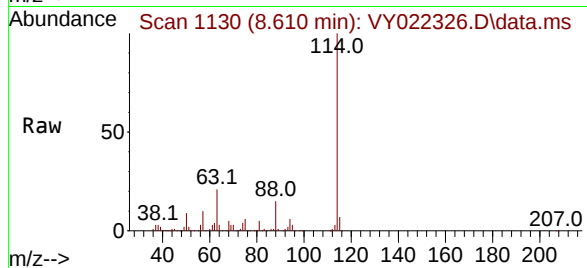
Tgt Ion:114 Resp: 406573

Ion Ratio Lower Upper

114 100

63 20.6 0.0 41.0

88 14.8 0.0 29.4



#35

Dibromofluoromethane

Concen: 49.228 ug/l

RT: 7.634 min Scan# 970

Delta R.T. 0.000 min

Lab File: VY022326.D

Acq: 19 May 2025 18:06

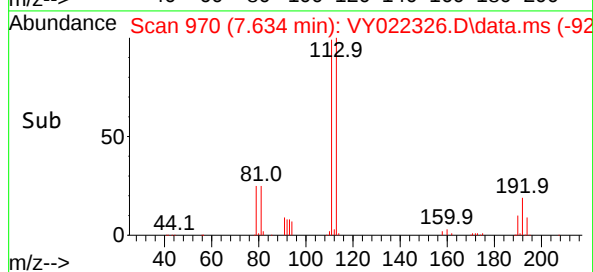
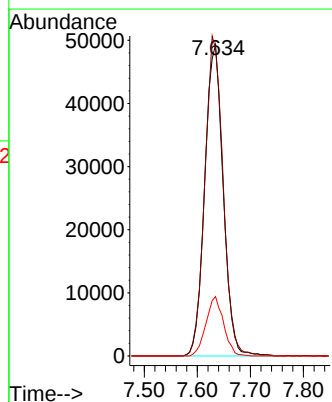
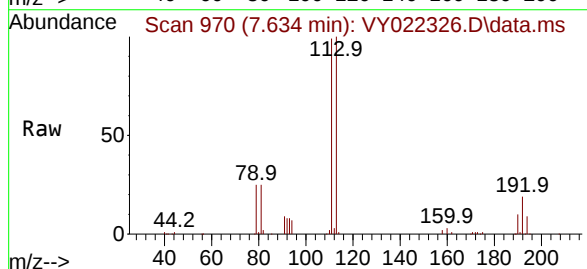
Tgt Ion:113 Resp: 119461

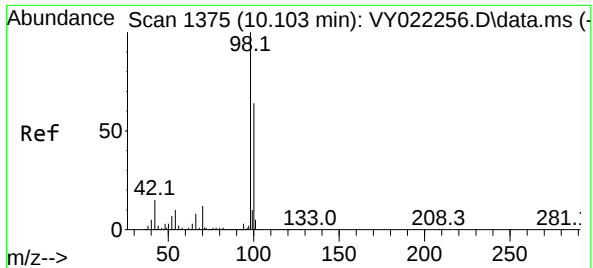
Ion Ratio Lower Upper

113 100

111 101.4 82.6 123.8

192 18.2 15.2 22.8

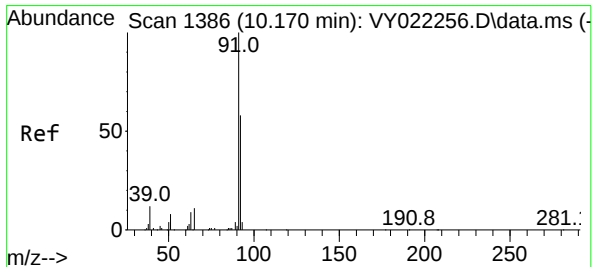
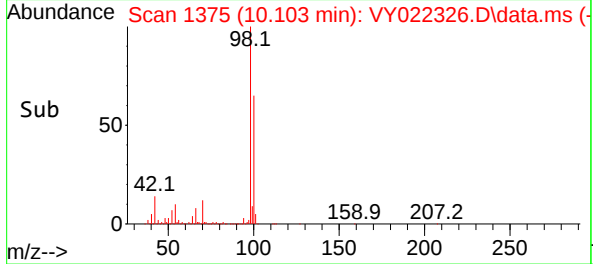
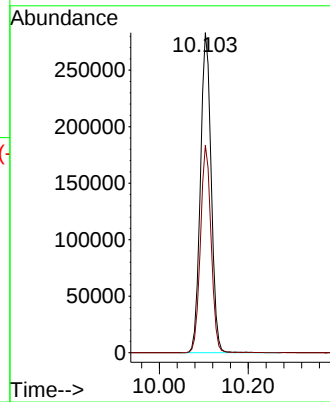
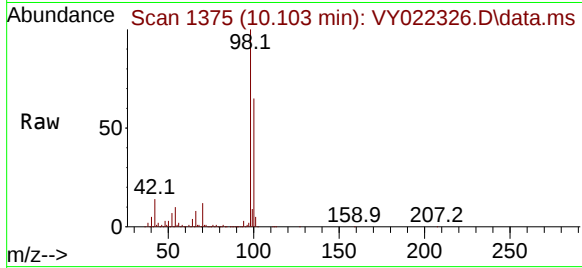




#50
Toluene-d8
Concen: 47.864 ug/l
RT: 10.103 min Scan# 1375
Delta R.T. 0.000 min
Lab File: VY022326.D
Acq: 19 May 2025 18:06

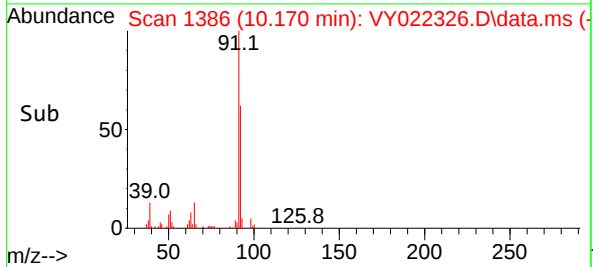
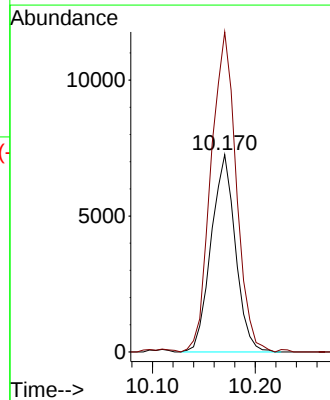
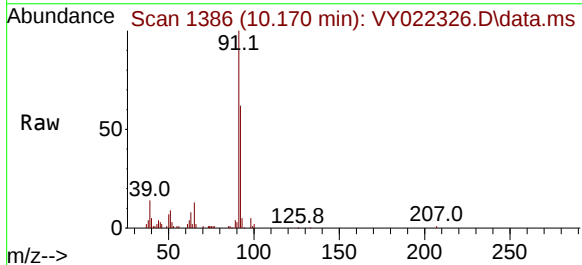
Instrument :
MSVOA_Y
ClientSampleId :
GVD11

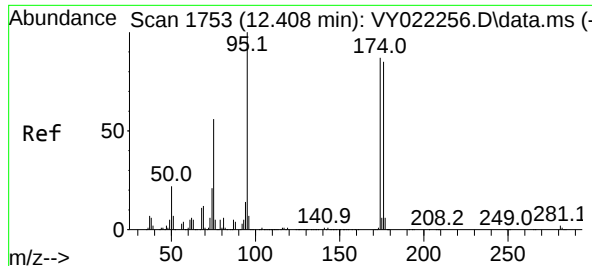
Tgt Ion: 98 Resp: 475704
Ion Ratio Lower Upper
98 100
100 64.0 51.8 77.8



#52
Toluene
Concen: 1.585 ug/l
RT: 10.170 min Scan# 1386
Delta R.T. 0.000 min
Lab File: VY022326.D
Acq: 19 May 2025 18:06

Tgt Ion: 92 Resp: 11893
Ion Ratio Lower Upper
92 100
91 168.9 139.1 208.7





#62

4-Bromofluorobenzene

Concen: 34.985 ug/l

RT: 12.402 min Scan# 11

Delta R.T. -0.006 min

Lab File: VY022326.D

Acq: 19 May 2025 18:06

Instrument :

MSVOA_Y

ClientSampleId :

GVD11

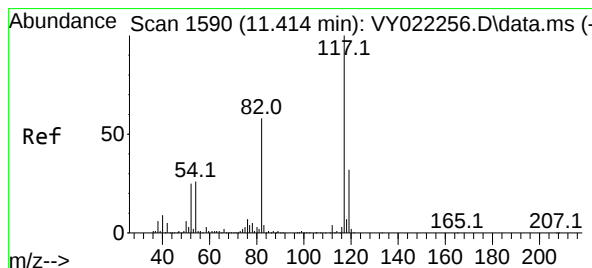
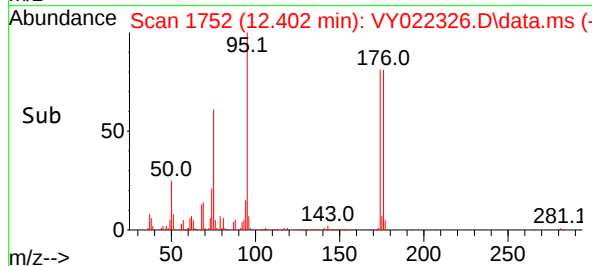
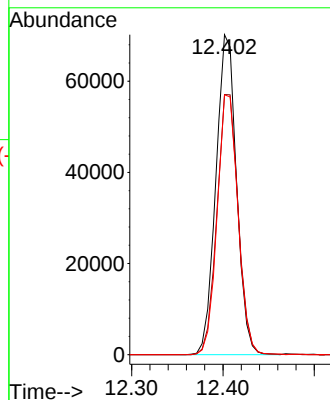
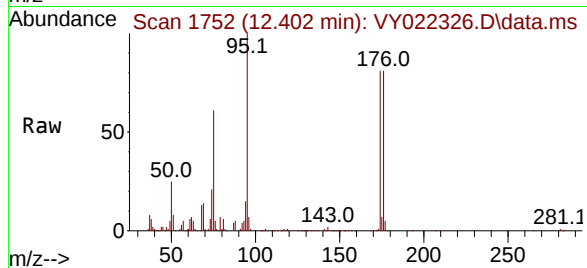
Tgt Ion: 95 Resp: 110208

Ion Ratio Lower Upper

95 100

174 83.6 0.0 166.8

176 81.8 0.0 160.8



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.414 min Scan# 1590

Delta R.T. 0.000 min

Lab File: VY022326.D

Acq: 19 May 2025 18:06

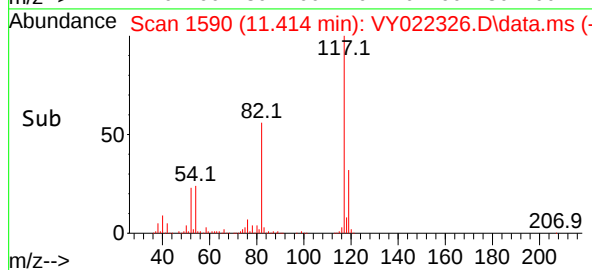
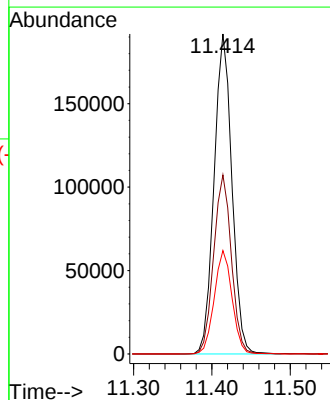
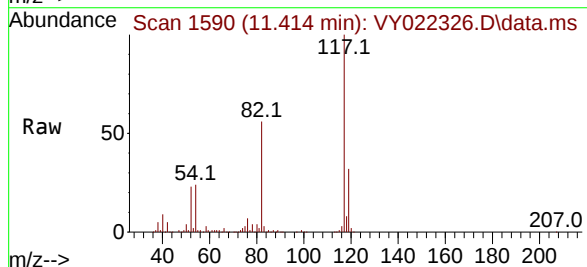
Tgt Ion: 117 Resp: 303031

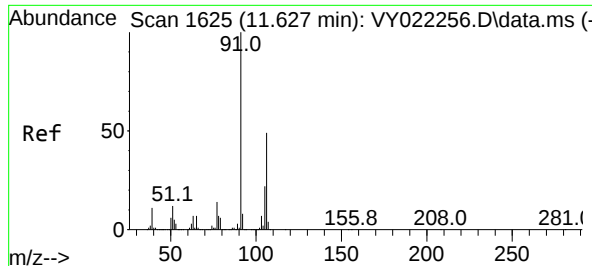
Ion Ratio Lower Upper

117 100

82 56.0 46.6 70.0

119 32.3 25.8 38.6





#68

m/p-Xylenes

Concen: 1.396 ug/l

RT: 11.627 min Scan# 1

Delta R.T. 0.000 min

Lab File: VY022326.D

Acq: 19 May 2025 18:06

Instrument :

MSVOA_Y

ClientSampleId :

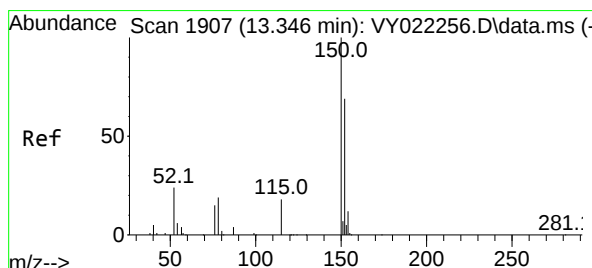
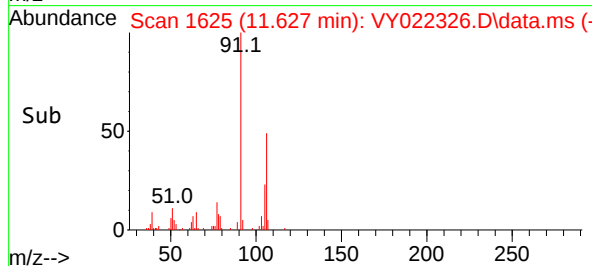
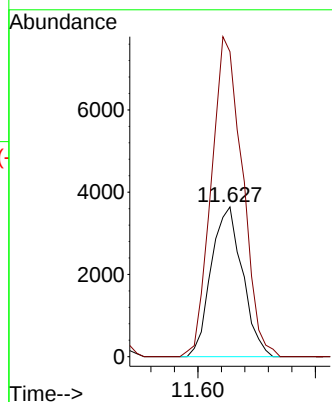
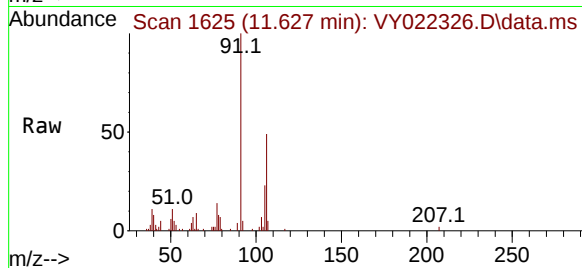
GVD11

Tgt Ion:106 Resp: 6737

Ion Ratio Lower Upper

106 100

91 211.9 163.0 244.4



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.347 min Scan# 1907

Delta R.T. 0.000 min

Lab File: VY022326.D

Acq: 19 May 2025 18:06

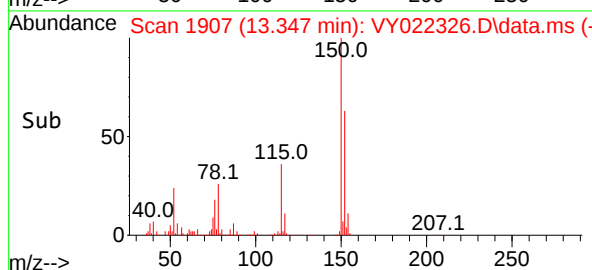
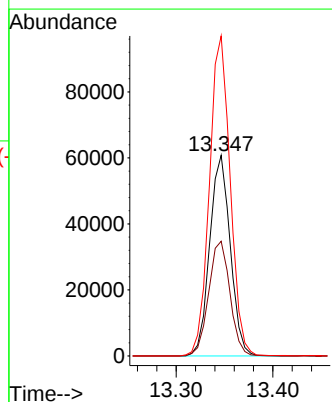
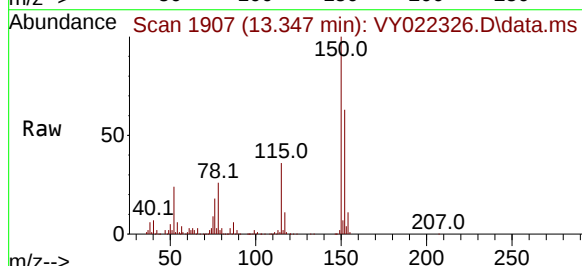
Tgt Ion:152 Resp: 89910

Ion Ratio Lower Upper

152 100

115 59.2 29.4 88.2

150 160.7 0.0 353.8



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY051925\
Data File : VY022326.D
Acq On : 19 May 2025 18:06
Operator : SY/MD
Sample : Q2056-01
Misc : 5.56g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 25 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
GVD11

Integration Parameters: RTEINT.P

Integrator: RTE

Smoothing : ON

Sampling : 1

Start Thrs: 0.2

Stop Thrs : 0

Filtering: 5

Min Area: 3 % of largest Peak

Max Peaks: 100

Peak Location: TOP

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

Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M

Title : SW846 8260

Signal : TIC: VY022326.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.196	71	78	82	rBV3	9165	19081	1.47%	0.307%
2	2.483	119	125	133	rBV4	13843	42278	3.25%	0.680%
3	2.836	178	183	189	rVB	31182	61044	4.70%	0.982%
4	7.634	958	970	975	rBV	167208	406826	31.30%	6.542%
5	7.707	975	982	993	rVB	296091	683260	52.56%	10.987%
6	8.061	1030	1040	1052	rBV	156281	359347	27.64%	5.778%
7	8.244	1065	1070	1081	rVB3	6162	16481	1.27%	0.265%
8	8.610	1120	1130	1141	rBV	489160	967783	74.45%	15.562%
9	9.103	1201	1211	1218	rBV5	9512	23961	1.84%	0.385%
10	10.103	1367	1375	1382	rBV	771338	1299873	100.00%	20.902%
11	10.170	1382	1386	1393	rVB	30627	51150	3.93%	0.822%
12	11.414	1582	1590	1602	rBV	624774	995640	76.60%	16.010%
13	11.621	1618	1624	1634	rVV2	23762	45433	3.50%	0.731%
14	11.950	1672	1678	1687	rVB3	11788	21352	1.64%	0.343%
15	12.402	1746	1752	1764	rVB	395726	620931	47.77%	9.984%
16	13.347	1900	1907	1916	rVB	391932	604546	46.51%	9.721%

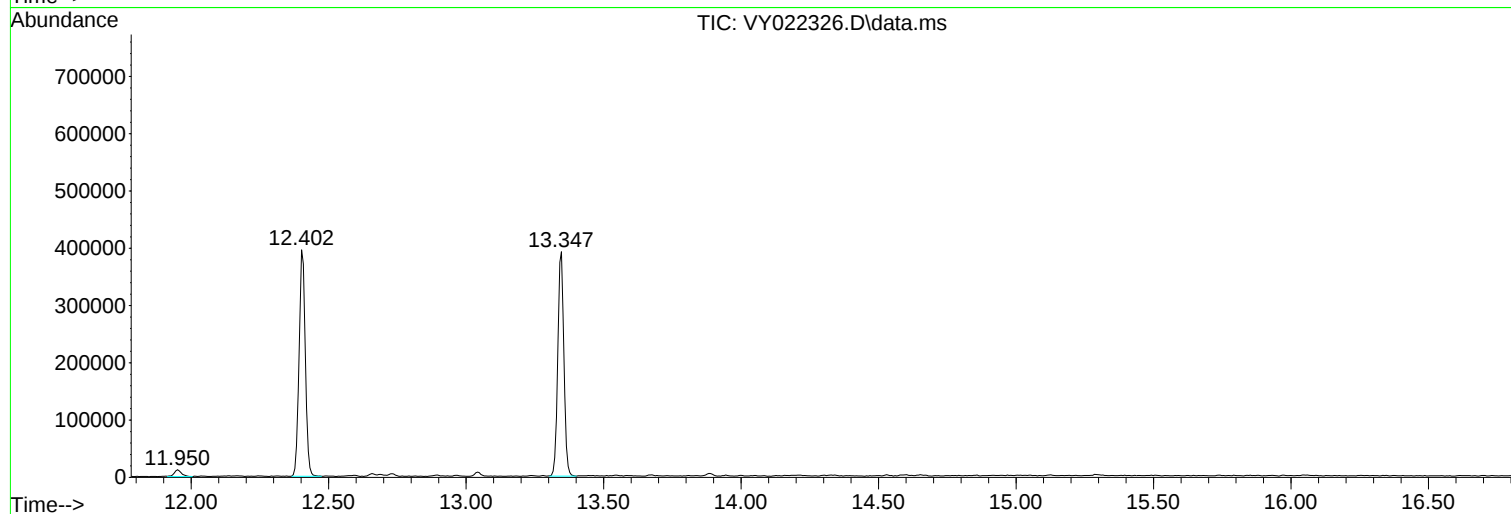
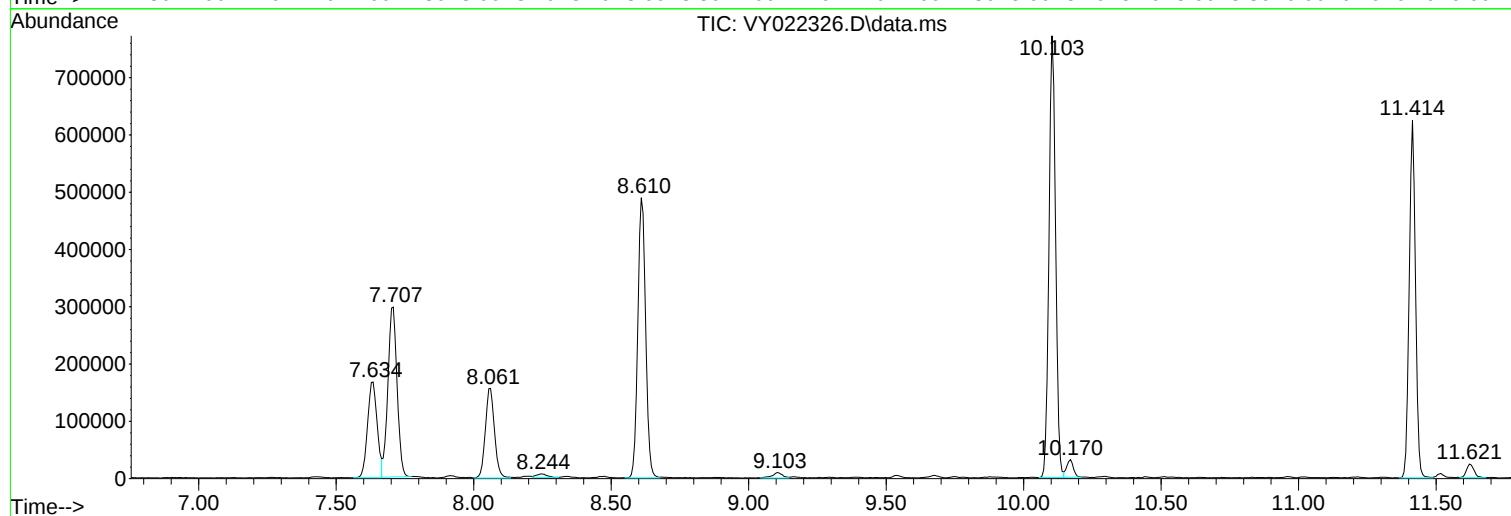
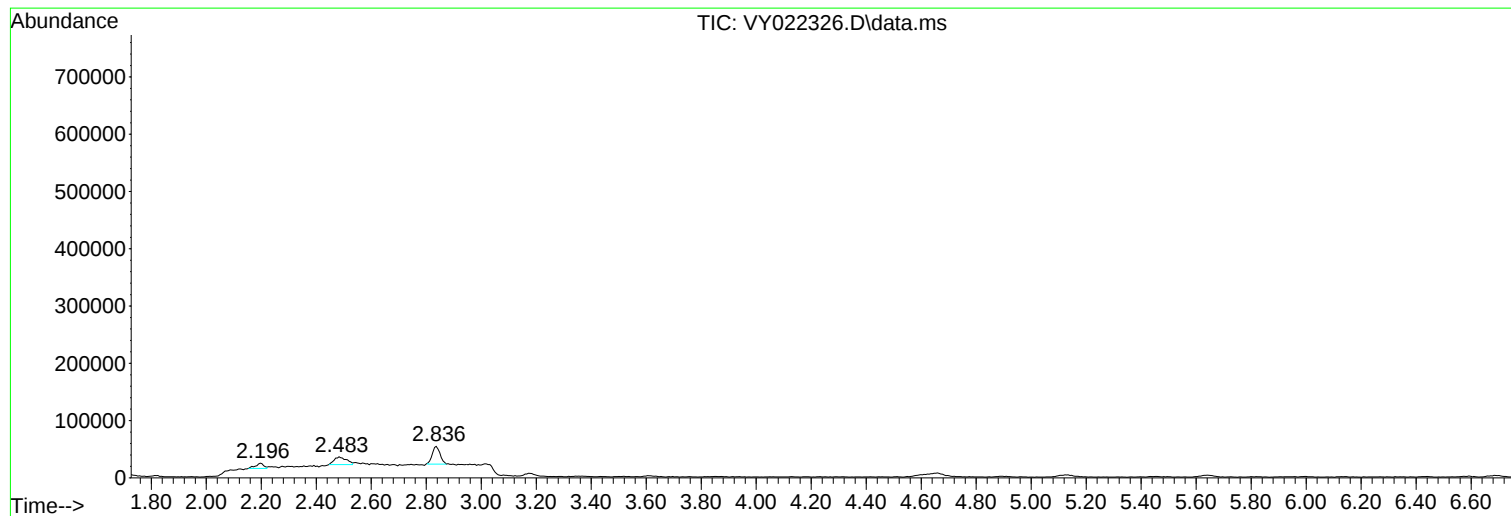
Sum of corrected areas: 6218986

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY051925\
Data File : VY022326.D
Acq On : 19 May 2025 18:06
Operator : SY/MD
Sample : Q2056-01
Misc : 5.56g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 25 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
GVD11

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY051925\
Data File : VY022326.D
Acq On : 19 May 2025 18:06
Operator : SY/MD
Sample : Q2056-01
Misc : 5.56g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 25 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
GVD11

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260

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

No Library Search Compounds Detected

5

A

B

C

D

E

F

G

H

I

J

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY051925\
Data File : VY022326.D
Acq On : 19 May 2025 18:06
Operator : SY/MD
Sample : Q2056-01
Misc : 5.56g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 25 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
GVD11

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260

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

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

5

A

B

C

D

E

F

G

H

I

J

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052025\
Data File : VY022336.D
Acq On : 20 May 2025 12:38
Operator : SY/MD
Sample : Q2056-02
Misc : 6.82g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
GVD12

Quant Time: May 21 01:47:11 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:42:09 2025
Response via : Initial Calibration

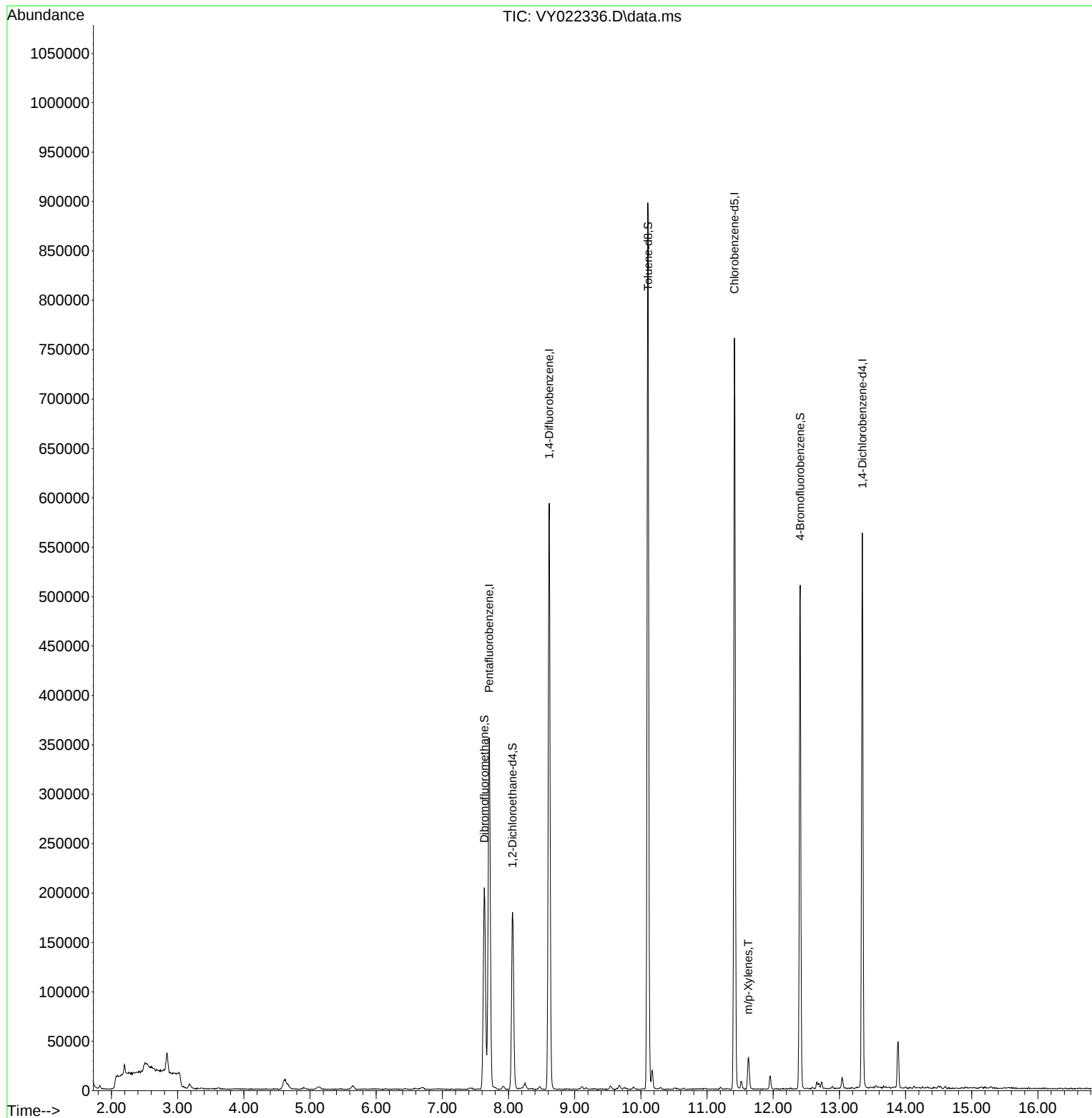
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	269526	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.615	114	481628	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	373395	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	128914	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	133163	45.206	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	90.420%
35) Dibromofluoromethane	7.634	113	139671	48.587	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	97.180%
50) Toluene-d8	10.109	98	568849	48.317	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	96.640%
62) 4-Bromofluorobenzene	12.407	95	139726	37.443	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	=	74.880%
Target Compounds						
68) m/p-Xylenes	11.621	106	9725	1.636	ug/l	Qvalue 96

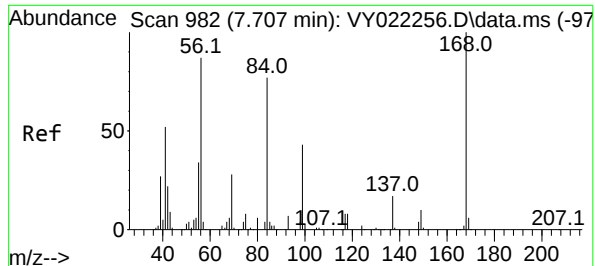
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052025\
Data File : VY022336.D
Acq On : 20 May 2025 12:38
Operator : SY/MD
Sample : Q2056-02
Misc : 6.82g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
GVD12

Quant Time: May 21 01:47:11 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:42:09 2025
Response via : Initial Calibration

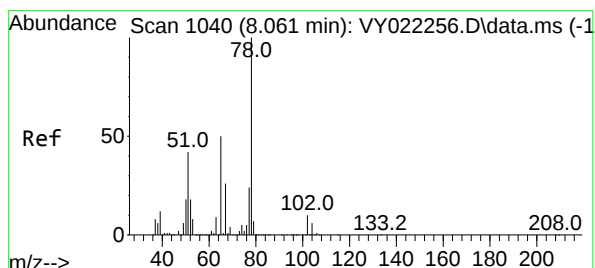
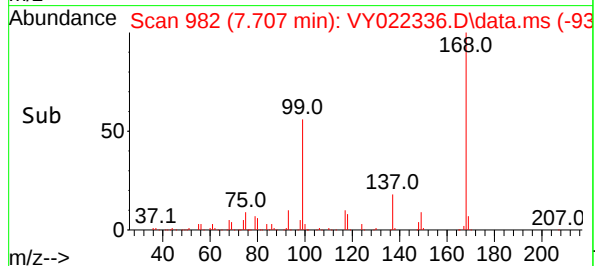
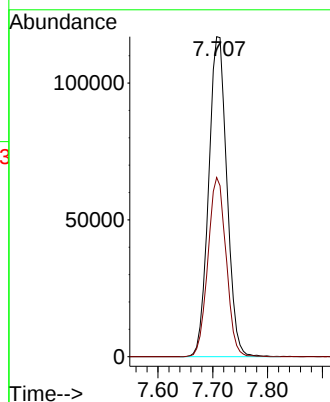
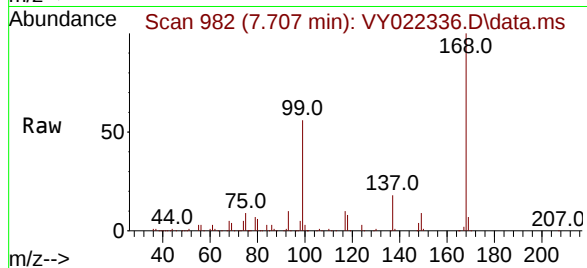




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 982
Delta R.T. 0.000 min
Lab File: VY022336.D
Acq: 20 May 2025 12:38

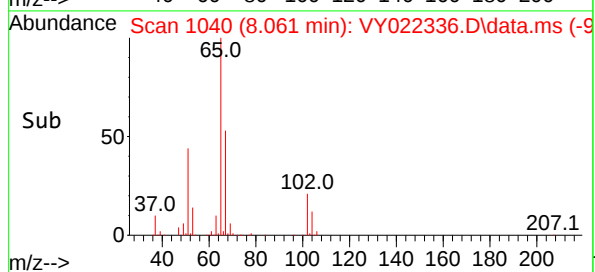
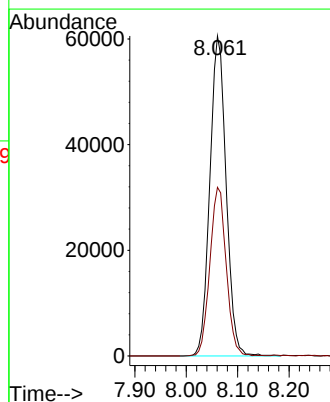
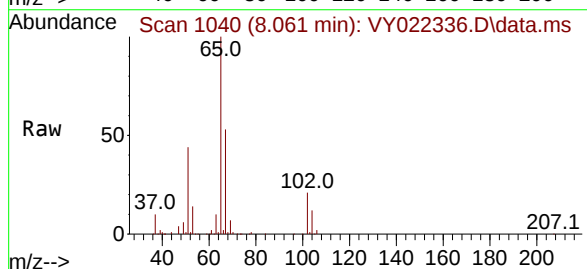
Instrument :
MSVOA_Y
ClientSampleId :
GVD12

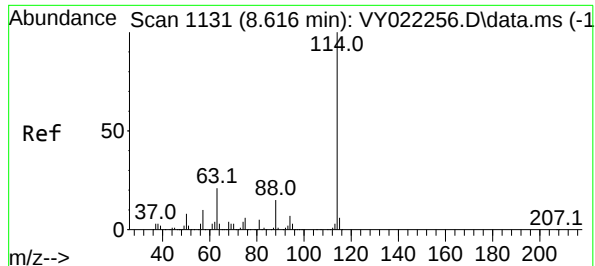
Tgt Ion:168 Resp: 269526
Ion Ratio Lower Upper
168 100
99 56.0 44.2 66.4



#33
1,2-Dichloroethane-d4
Concen: 45.206 ug/l
RT: 8.061 min Scan# 1040
Delta R.T. -0.000 min
Lab File: VY022336.D
Acq: 20 May 2025 12:38

Tgt Ion: 65 Resp: 133163
Ion Ratio Lower Upper
65 100
67 52.8 0.0 104.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.615 min Scan# 1131

Delta R.T. -0.000 min

Lab File: VY022336.D

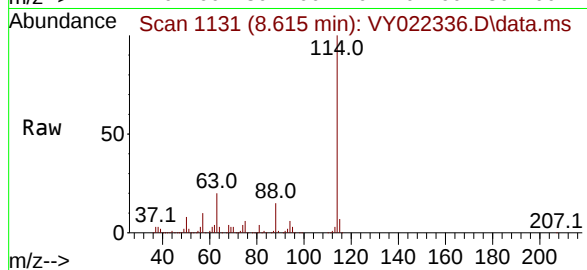
Acq: 20 May 2025 12:38

Instrument :

MSVOA_Y

ClientSampleId :

GVD12



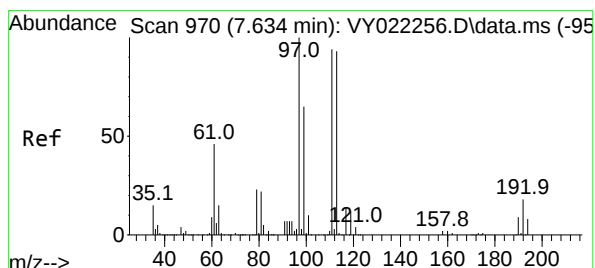
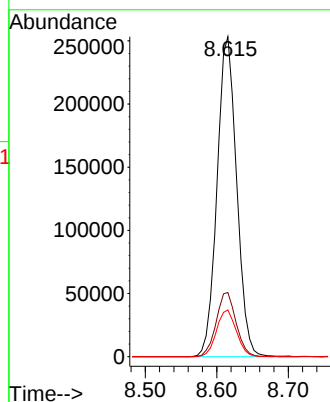
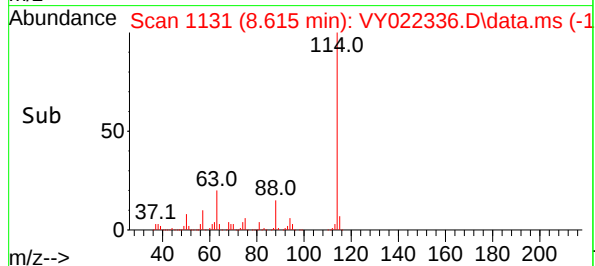
Tgt Ion:114 Resp: 481628

Ion Ratio Lower Upper

114 100

63 20.1 0.0 41.0

88 14.6 0.0 29.4



#35

Dibromofluoromethane

Concen: 48.587 ug/l

RT: 7.634 min Scan# 970

Delta R.T. -0.000 min

Lab File: VY022336.D

Acq: 20 May 2025 12:38

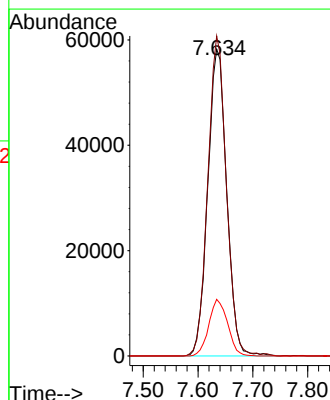
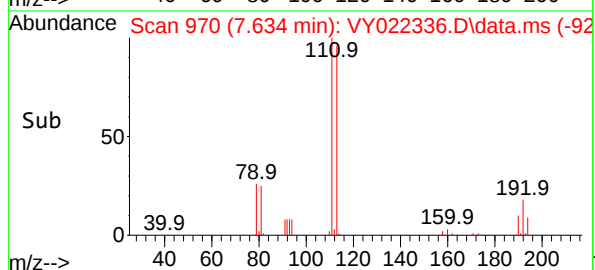
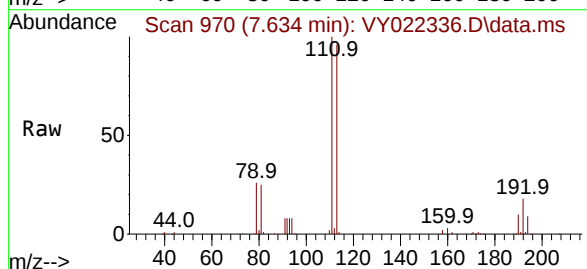
Tgt Ion:113 Resp: 139671

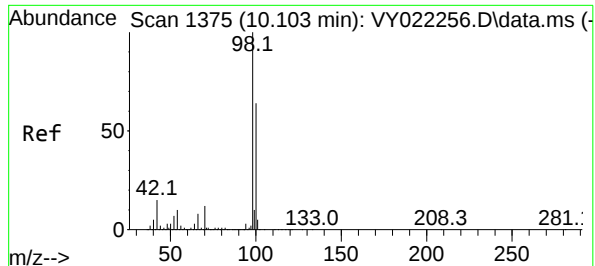
Ion Ratio Lower Upper

113 100

111 102.1 82.6 123.8

192 18.3 15.2 22.8





#50

Toluene-d8

Concen: 48.317 ug/l

RT: 10.109 min Scan# 1375

Delta R.T. 0.006 min

Lab File: VY022336.D

Acq: 20 May 2025 12:38

Instrument :

MSVOA_Y

ClientSampleId :

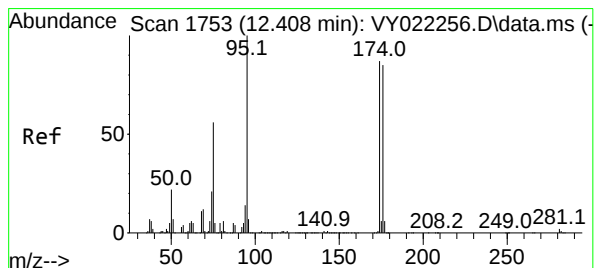
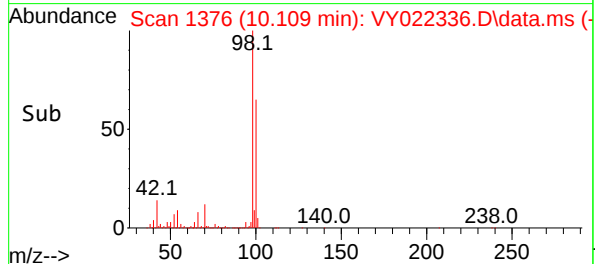
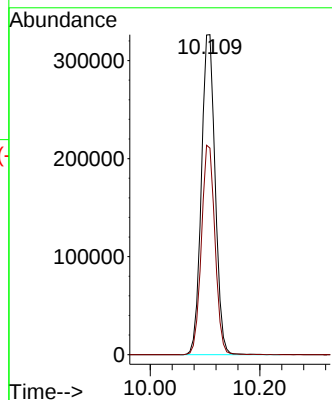
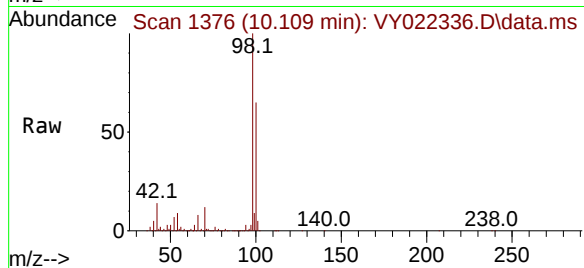
GVD12

Tgt Ion: 98 Resp: 568849

Ion Ratio Lower Upper

98 100

100 64.5 51.8 77.8



#62

4-Bromofluorobenzene

Concen: 37.443 ug/l

RT: 12.407 min Scan# 1753

Delta R.T. -0.000 min

Lab File: VY022336.D

Acq: 20 May 2025 12:38

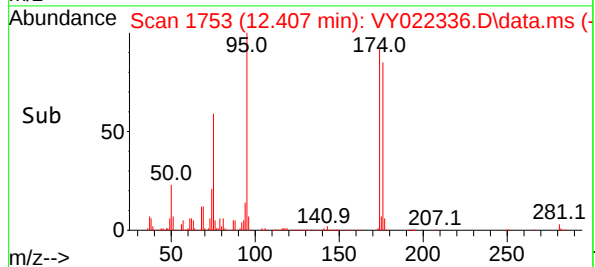
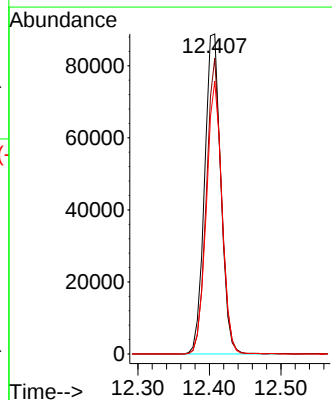
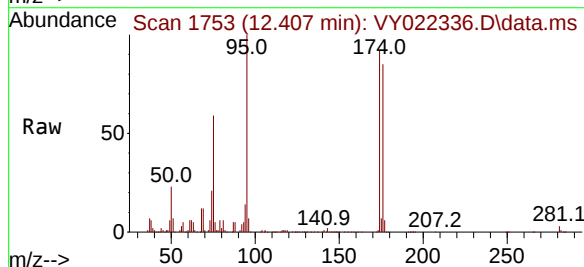
Tgt Ion: 95 Resp: 139726

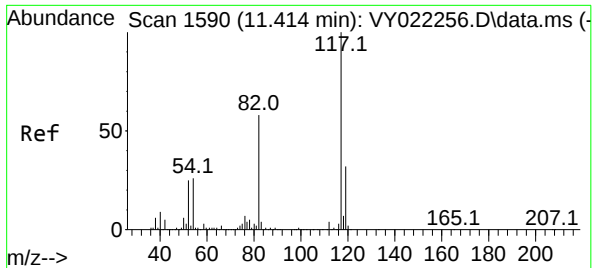
Ion Ratio Lower Upper

95 100

174 86.5 0.0 166.8

176 82.2 0.0 160.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.414 min Scan# 11

Delta R.T. -0.000 min

Lab File: VY022336.D

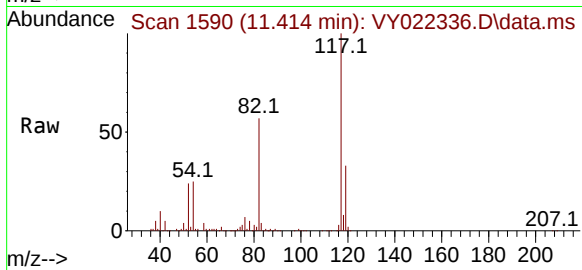
Acq: 20 May 2025 12:38

Instrument :

MSVOA_Y

ClientSampleId :

GVD12



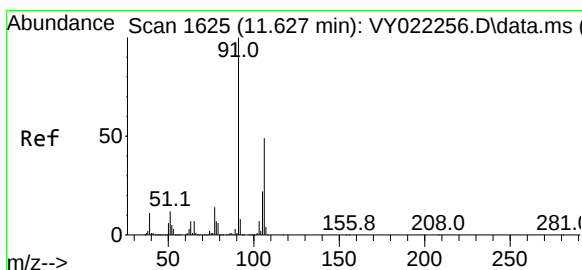
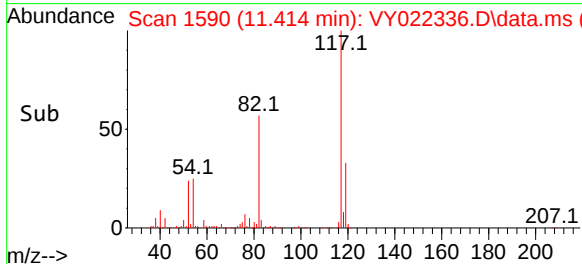
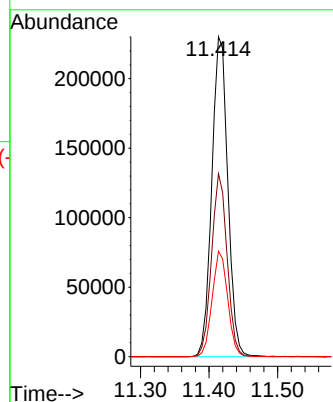
Tgt Ion:117 Resp: 373395

Ion Ratio Lower Upper

117 100

82 57.2 46.6 70.0

119 32.9 25.8 38.6



#68

m/p-Xylenes

Concen: 1.636 ug/l

RT: 11.621 min Scan# 1624

Delta R.T. -0.006 min

Lab File: VY022336.D

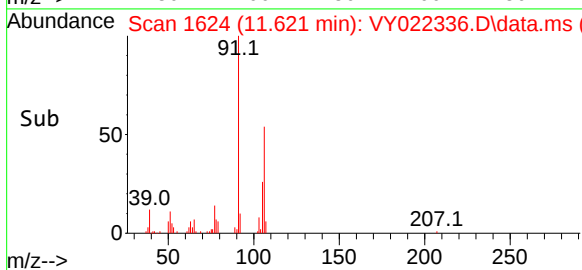
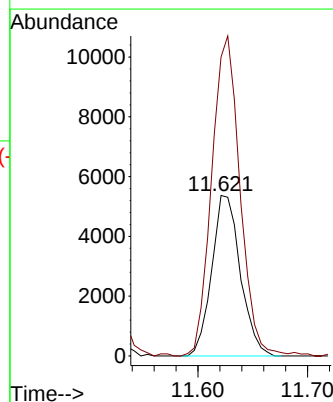
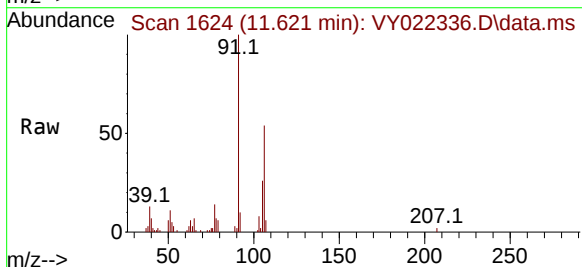
Acq: 20 May 2025 12:38

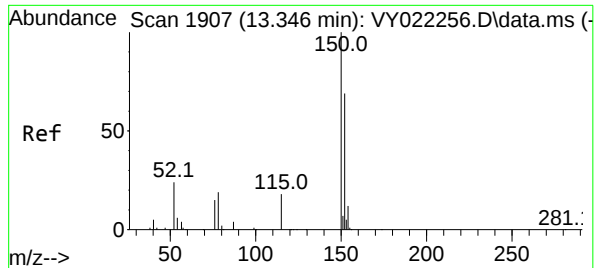
Tgt Ion:106 Resp: 9725

Ion Ratio Lower Upper

106 100

91 198.0 163.0 244.4





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.346 min Scan# 1907

Delta R.T. -0.000 min

Lab File: VY022336.D

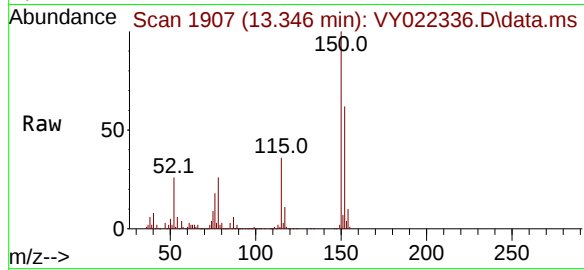
Acq: 20 May 2025 12:38

Instrument :

MSVOA_Y

ClientSampleId :

GVD12



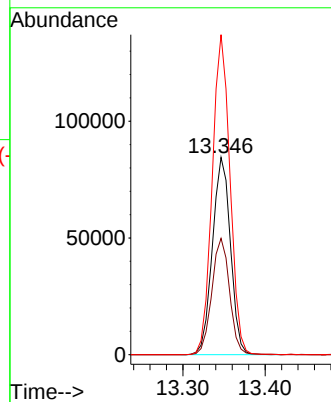
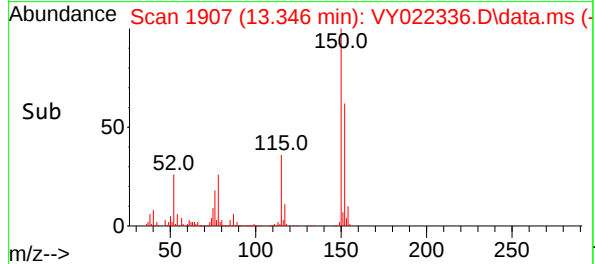
Tgt Ion:152 Resp: 128914

Ion Ratio Lower Upper

152 100

115 57.8 29.4 88.2

150 159.3 0.0 353.8



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052025\
Data File : VY022336.D
Acq On : 20 May 2025 12:38
Operator : SY/MD
Sample : Q2056-02
Misc : 6.82g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
GVD12

Integration Parameters: RTEINT.P

Integrator: RTE

Smoothing : ON

Sampling : 1

Start Thrs: 0.2

Stop Thrs : 0

Filtering: 5

Min Area: 3 % of largest Peak

Max Peaks: 100

Peak Location: TOP

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

Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M

Title : SW846 8260

Signal : TIC: VY022336.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.074	50	58	59	rBV4	12595	23165	1.49%	0.305%
2	2.836	178	183	190	rVB3	20222	42164	2.71%	0.555%
3	4.610	462	474	476	rBV4	10113	23797	1.53%	0.313%
4	7.634	961	970	976	rBV	204016	480992	30.96%	6.326%
5	7.707	976	982	992	rVB	354096	807955	52.00%	10.626%
6	8.061	1030	1040	1051	rBV	179545	409329	26.35%	5.383%
7	8.615	1120	1131	1143	rBV	593516	1146604	73.80%	15.080%
8	10.103	1368	1375	1383	rBV	897198	1553614	100.00%	20.432%
9	10.170	1383	1386	1393	rVB	18302	30344	1.95%	0.399%
10	11.414	1581	1590	1602	rBV	760628	1227515	79.01%	16.144%
11	11.517	1602	1607	1617	rVB	8127	15838	1.02%	0.208%
12	11.627	1619	1625	1636	rVV	31899	61191	3.94%	0.805%
13	11.956	1671	1679	1687	rVB2	13629	25061	1.61%	0.330%
14	12.407	1744	1753	1764	rBV	509871	804969	51.81%	10.587%
15	13.042	1851	1857	1863	rBV3	10771	17081	1.10%	0.225%
16	13.346	1899	1907	1919	rVB	561667	854116	54.98%	11.233%
17	13.883	1990	1995	2002	rVB2	46640	79966	5.15%	1.052%

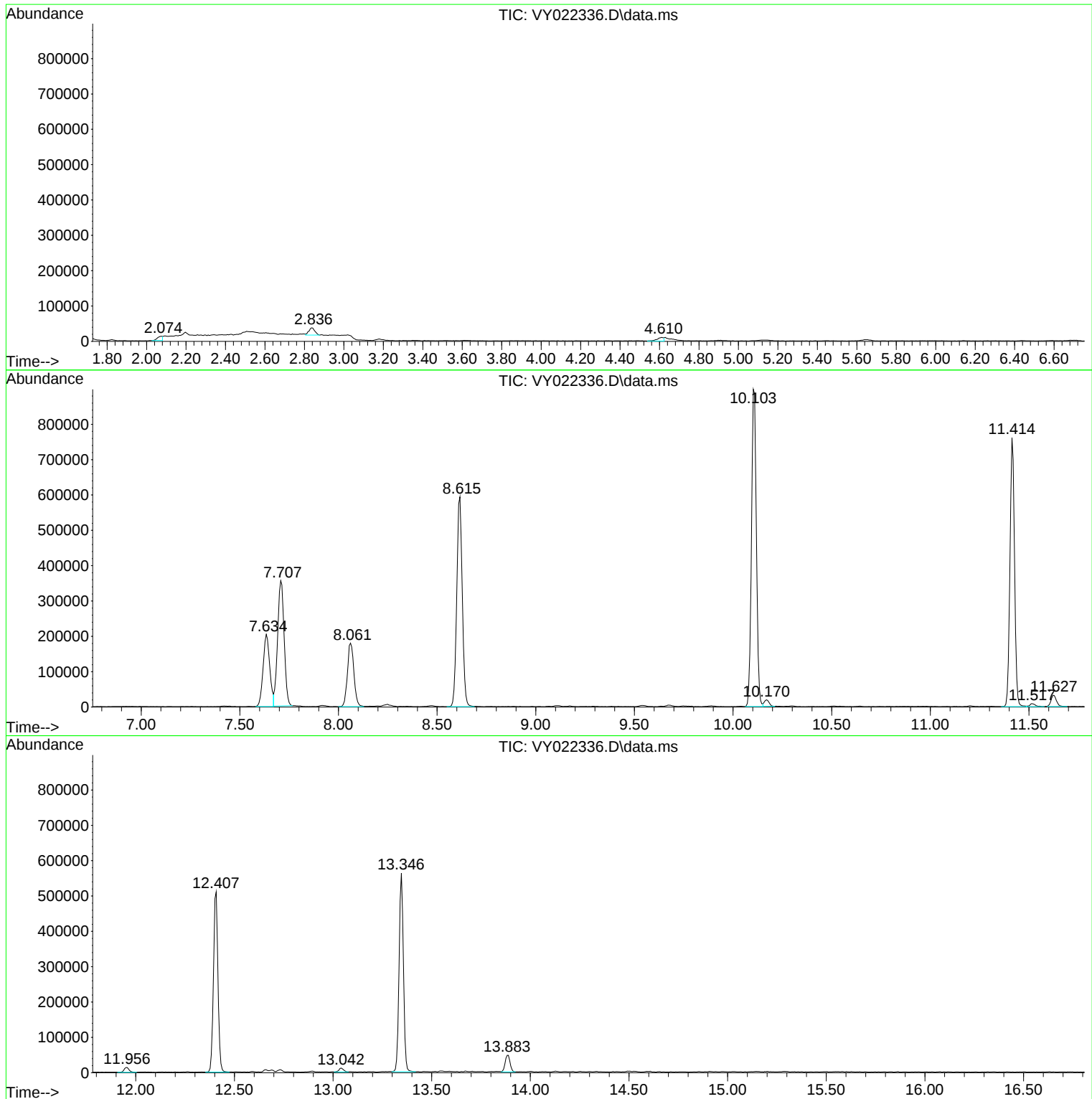
Sum of corrected areas: 7603701

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052025\
Data File : VY022336.D
Acq On : 20 May 2025 12:38
Operator : SY/MD
Sample : Q2056-02
Misc : 6.82g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
GVD12

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052025\
Data File : VY022336.D
Acq On : 20 May 2025 12:38
Operator : SY/MD
Sample : Q2056-02
Misc : 6.82g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
GVD12

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260

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

No Library Search Compounds Detected

5

A

B

C

D

E

F

G

H

I

J

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052025\
Data File : VY022336.D
Acq On : 20 May 2025 12:38
Operator : SY/MD
Sample : Q2056-02
Misc : 6.82g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
GVD12

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260

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

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

5

A

B

C

D

E

F

G

H

I

J

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052025\
Data File : VY022337.D
Acq On : 20 May 2025 13:01
Operator : SY/MD
Sample : Q2056-03
Misc : 7.95g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
GVD13

Quant Time: May 21 01:47:35 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:42:09 2025
Response via : Initial Calibration

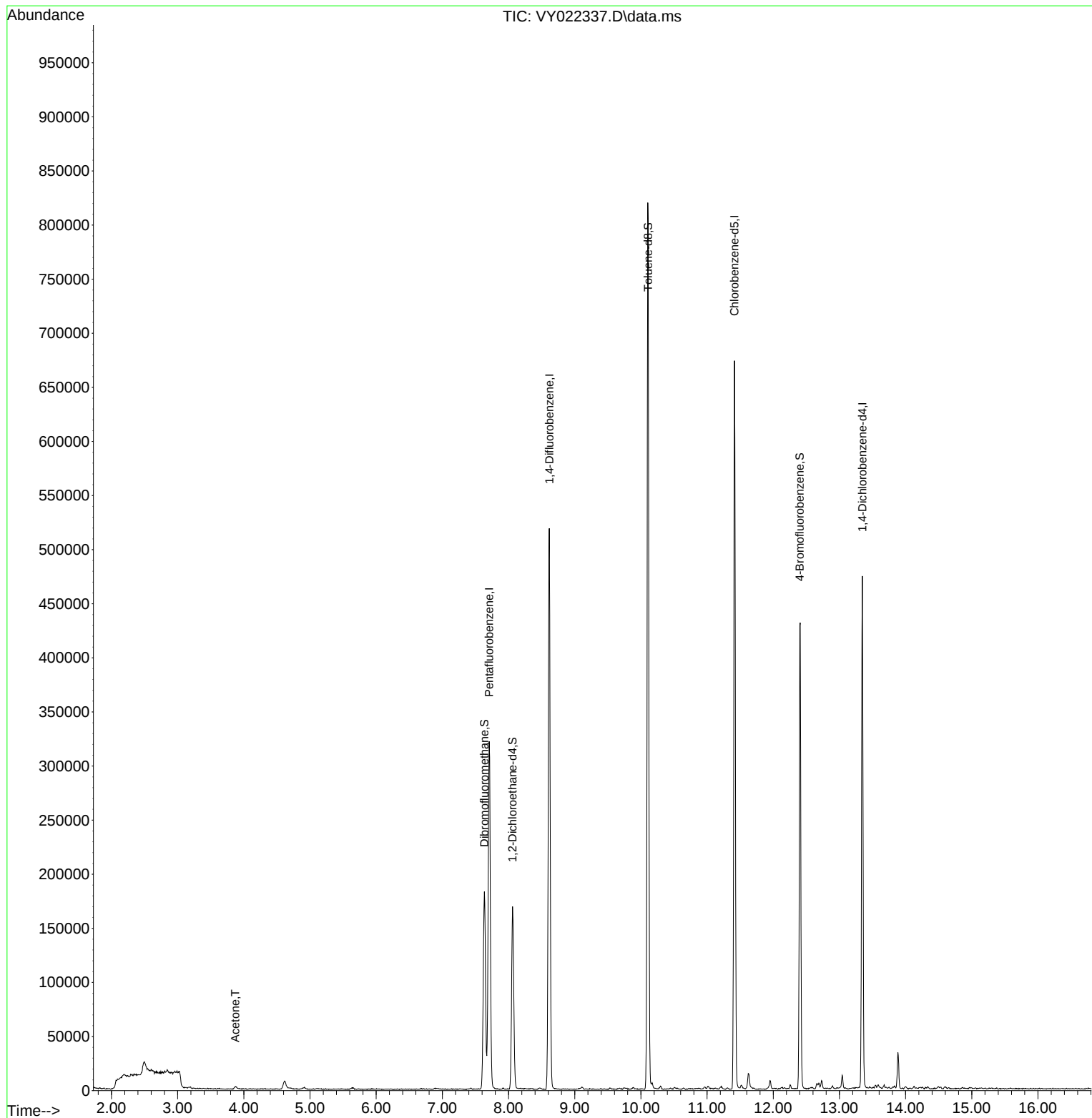
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	244549	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	431792	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	328152	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.347	152	107238	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	126949	47.499	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	95.000%
35) Dibromofluoromethane	7.634	113	125678	48.766	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	97.540%
50) Toluene-d8	10.109	98	513211	48.622	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	97.240%
62) 4-Bromofluorobenzene	12.402	95	123075	36.787	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	=	73.580%
Target Compounds						
16) Acetone	3.873	43	4316	8.612	ug/l	97

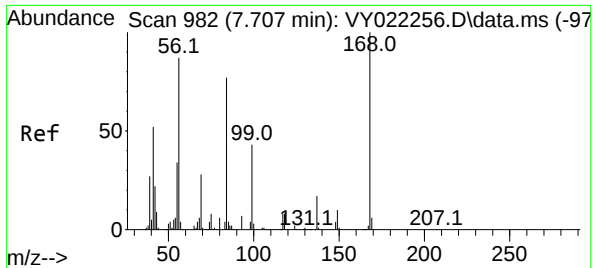
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052025\
Data File : VY022337.D
Acq On : 20 May 2025 13:01
Operator : SY/MD
Sample : Q2056-03
Misc : 7.95g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
GVD13

Quant Time: May 21 01:47:35 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:42:09 2025
Response via : Initial Calibration

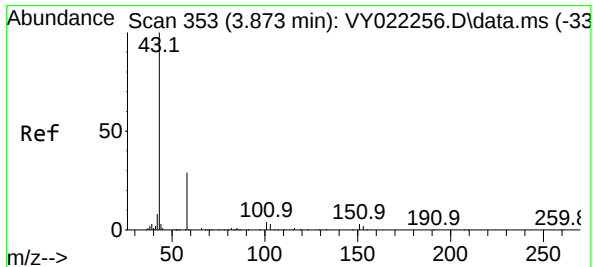
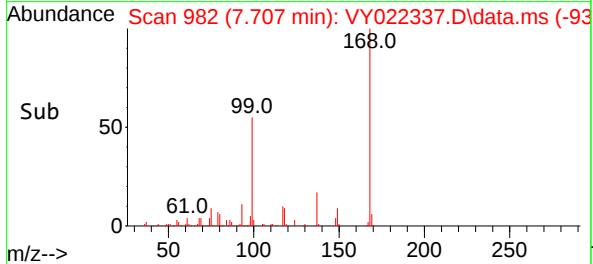
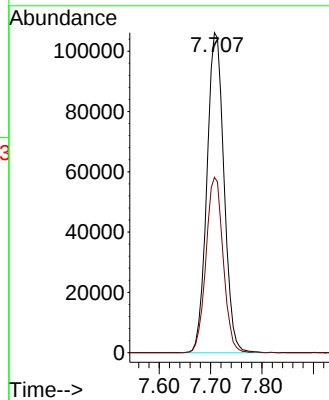
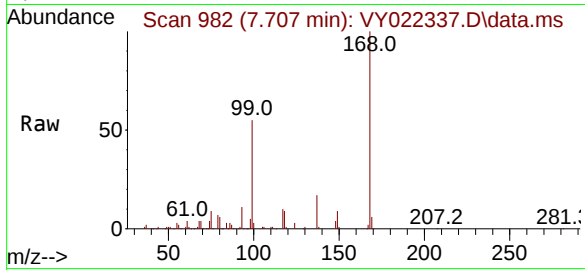




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 91
Delta R.T. 0.000 min
Lab File: VY022337.D
Acq: 20 May 2025 13:01

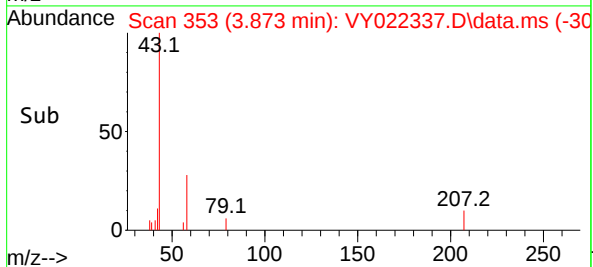
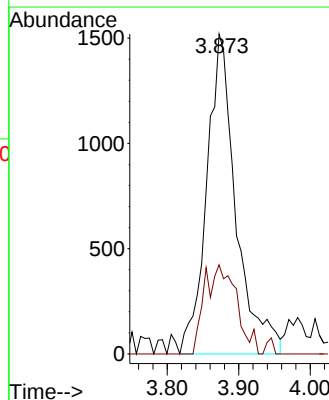
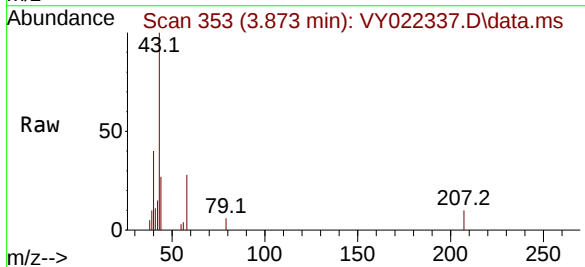
Instrument :
MSVOA_Y
ClientSampleId :
GVD13

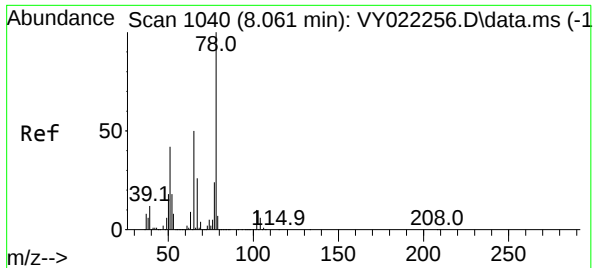
Tgt Ion:168 Resp: 244549
Ion Ratio Lower Upper
168 100
99 54.8 44.2 66.4



#16
Acetone
Concen: 8.612 ug/l
RT: 3.873 min Scan# 353
Delta R.T. 0.000 min
Lab File: VY022337.D
Acq: 20 May 2025 13:01

Tgt Ion: 43 Resp: 4316
Ion Ratio Lower Upper
43 100
58 27.8 23.6 35.4





#33

1,2-Dichloroethane-d4

Concen: 47.499 ug/l

RT: 8.061 min Scan# 1040

Delta R.T. 0.000 min

Lab File: VY022337.D

Acq: 20 May 2025 13:01

Instrument :

MSVOA_Y

ClientSampleId :

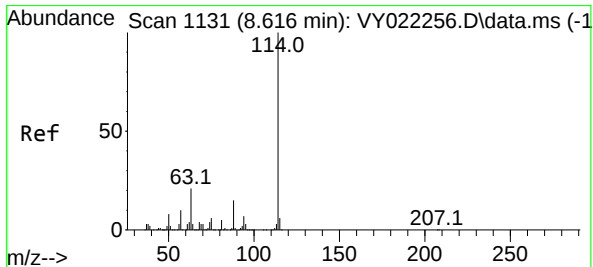
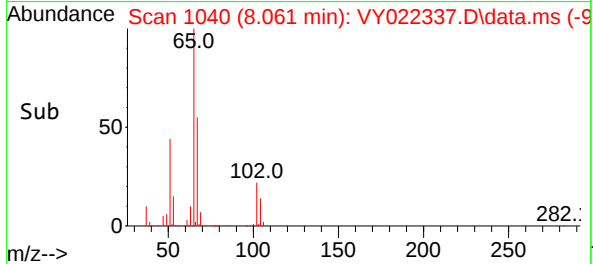
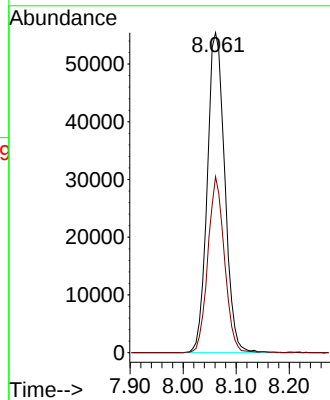
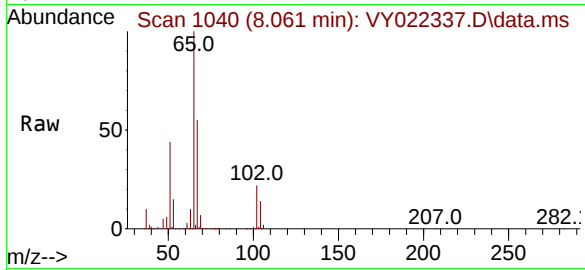
GVD13

Tgt Ion: 65 Resp: 126949

Ion Ratio Lower Upper

65 100

67 52.1 0.0 104.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.616 min Scan# 1131

Delta R.T. 0.000 min

Lab File: VY022337.D

Acq: 20 May 2025 13:01

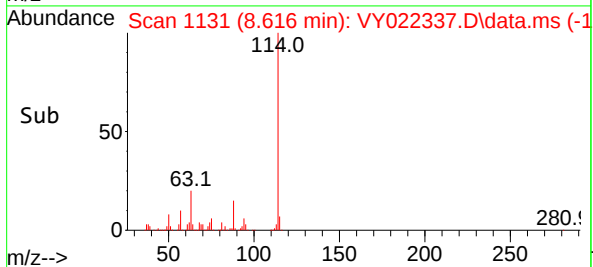
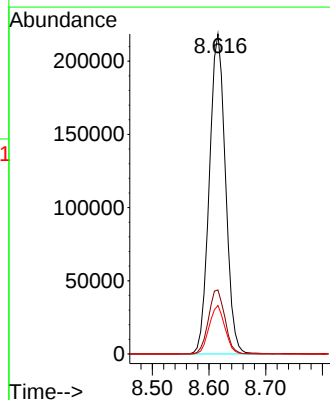
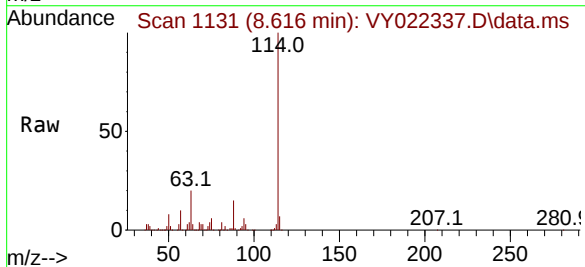
Tgt Ion:114 Resp: 431792

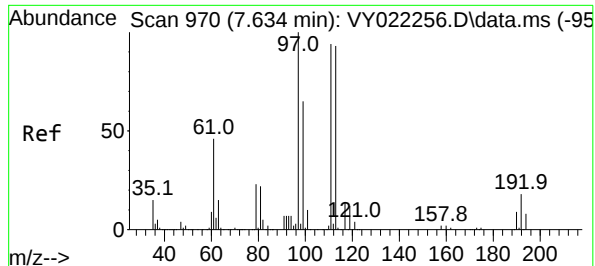
Ion Ratio Lower Upper

114 100

63 20.0 0.0 41.0

88 15.2 0.0 29.4





#35

Dibromofluoromethane

Concen: 48.766 ug/l

RT: 7.634 min Scan# 91

Delta R.T. 0.000 min

Lab File: VY022337.D

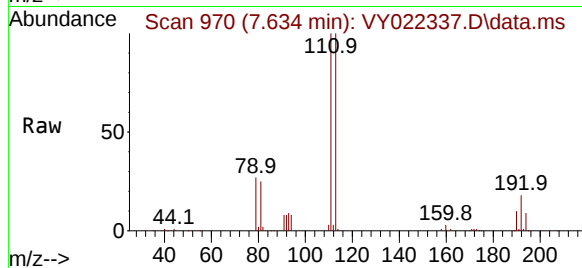
Acq: 20 May 2025 13:01

Instrument :

MSVOA_Y

ClientSampleId :

GVD13



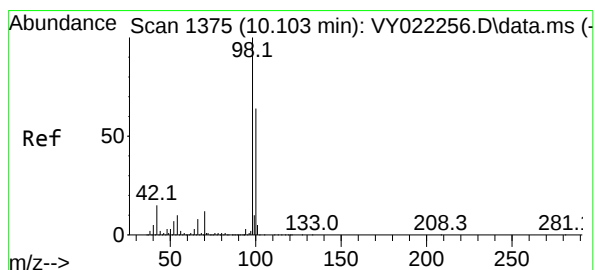
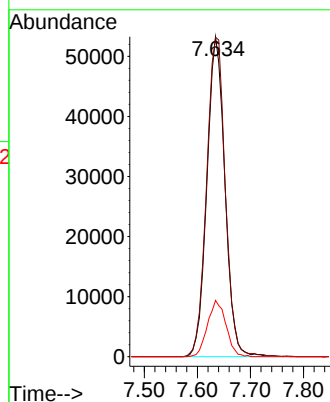
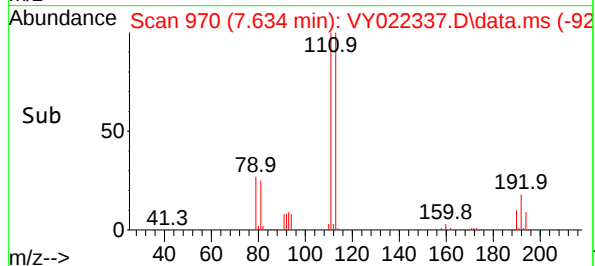
Tgt Ion:113 Resp: 125678

Ion Ratio Lower Upper

113 100

111 103.7 82.6 123.8

192 18.0 15.2 22.8



#50

Toluene-d8

Concen: 48.622 ug/l

RT: 10.109 min Scan# 1376

Delta R.T. 0.006 min

Lab File: VY022337.D

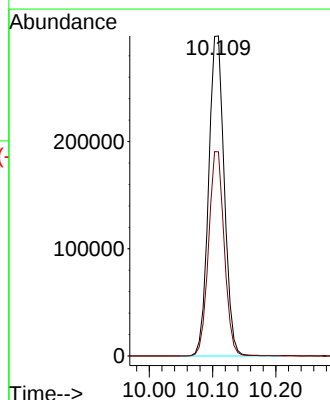
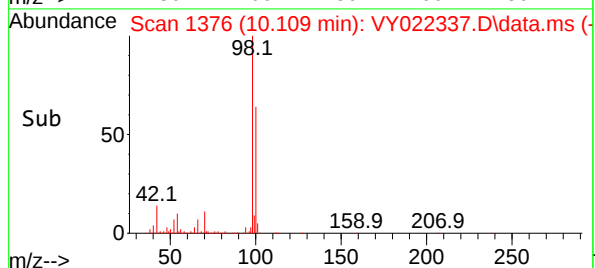
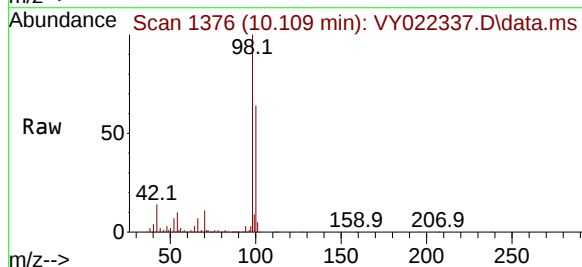
Acq: 20 May 2025 13:01

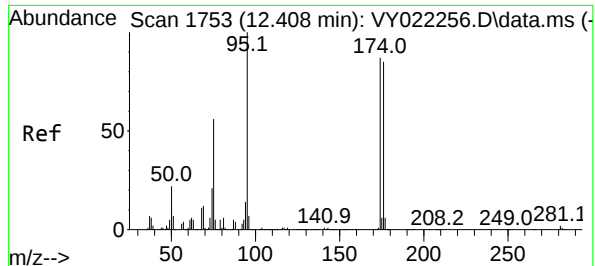
Tgt Ion: 98 Resp: 513211

Ion Ratio Lower Upper

98 100

100 63.9 51.8 77.8

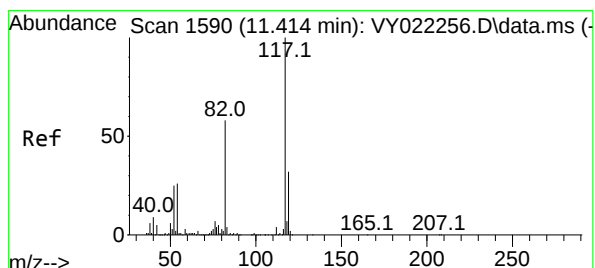
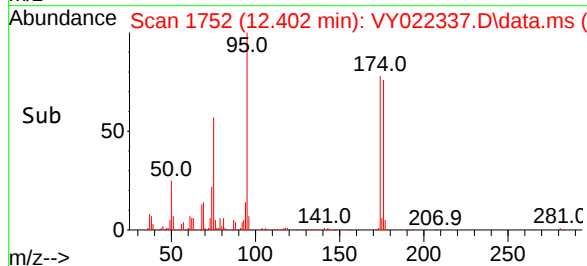
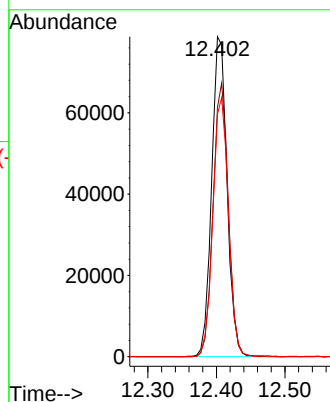
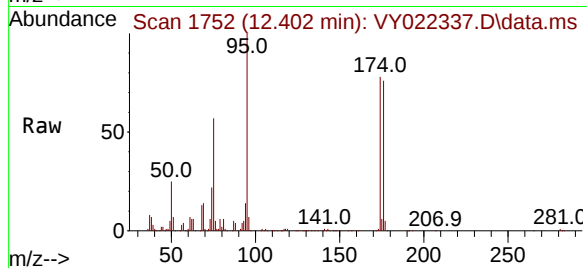




#62
4-Bromofluorobenzene
Concen: 36.787 ug/l
RT: 12.402 min Scan# 1752
Delta R.T. -0.006 min
Lab File: VY022337.D
Acq: 20 May 2025 13:01

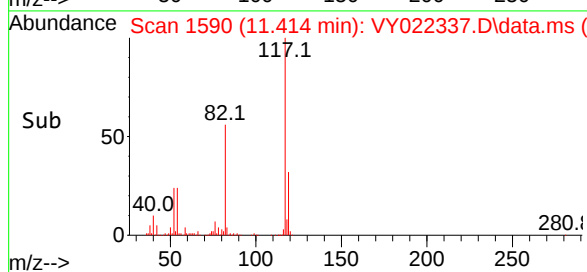
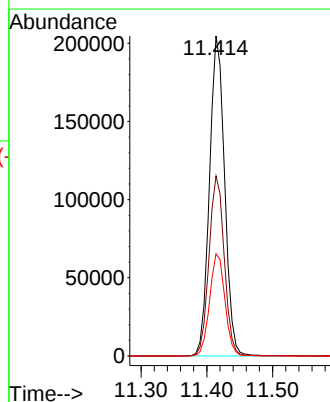
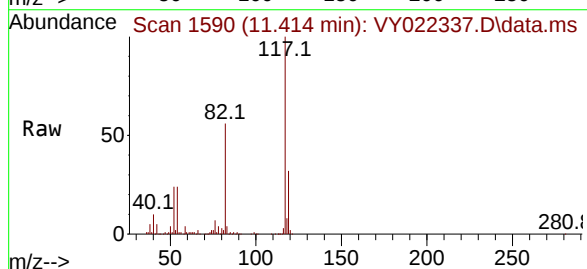
Instrument :
MSVOA_Y
ClientSampleId :
GVD13

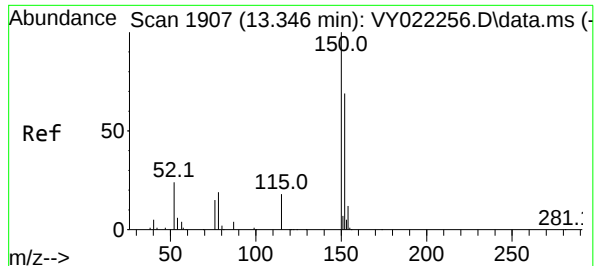
Tgt Ion: 95 Resp: 123075
Ion Ratio Lower Upper
95 100
174 84.8 0.0 166.8
176 81.7 0.0 160.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1590
Delta R.T. 0.000 min
Lab File: VY022337.D
Acq: 20 May 2025 13:01

Tgt Ion: 117 Resp: 328152
Ion Ratio Lower Upper
117 100
82 56.2 46.6 70.0
119 32.0 25.8 38.6





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.347 min Scan# 1907

Delta R.T. 0.000 min

Lab File: VY022337.D

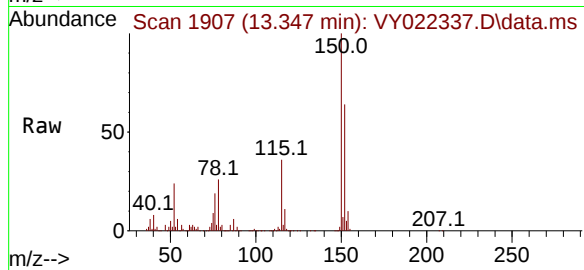
Acq: 20 May 2025 13:01

Instrument :

MSVOA_Y

ClientSampleId :

GVD13



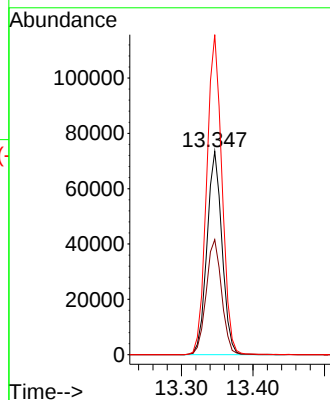
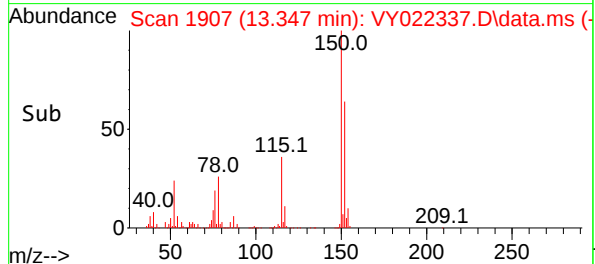
Tgt Ion:152 Resp: 107238

Ion Ratio Lower Upper

152 100

115 58.2 29.4 88.2

150 160.0 0.0 353.8



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052025\
Data File : VY022337.D
Acq On : 20 May 2025 13:01
Operator : SY/MD
Sample : Q2056-03
Misc : 7.95g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
GVD13

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_Y\methods\82Y051525S.M
Title : SW846 8260

Signal : TIC: VY022337.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.495	121	127	134	rBV5	9889	30836	2.20%	0.463%
2	4.616	466	475	483	rBV4	7360	22844	1.63%	0.343%
3	7.634	959	970	976	rBV	182577	436538	31.08%	6.556%
4	7.707	976	982	996	rVB	321048	734284	52.27%	11.028%
5	8.061	1032	1040	1051	rBV	168667	377707	26.89%	5.673%
6	8.616	1122	1131	1145	rBV	518722	1032310	73.49%	15.504%
7	10.103	1367	1375	1385	rBV	819578	1404706	100.00%	21.097%
8	11.414	1583	1590	1601	rBV	673226	1087967	77.45%	16.340%
9	11.621	1617	1624	1635	rBV2	14231	31871	2.27%	0.479%
10	11.950	1668	1678	1683	rBV2	8059	16393	1.17%	0.246%
11	12.408	1746	1753	1764	rBV	430465	699291	49.78%	10.503%
12	13.042	1850	1857	1862	rVB2	11974	18305	1.30%	0.275%
13	13.347	1900	1907	1917	rVB	472959	710880	50.61%	10.677%
14	13.883	1990	1995	2003	rVB	33411	54238	3.86%	0.815%

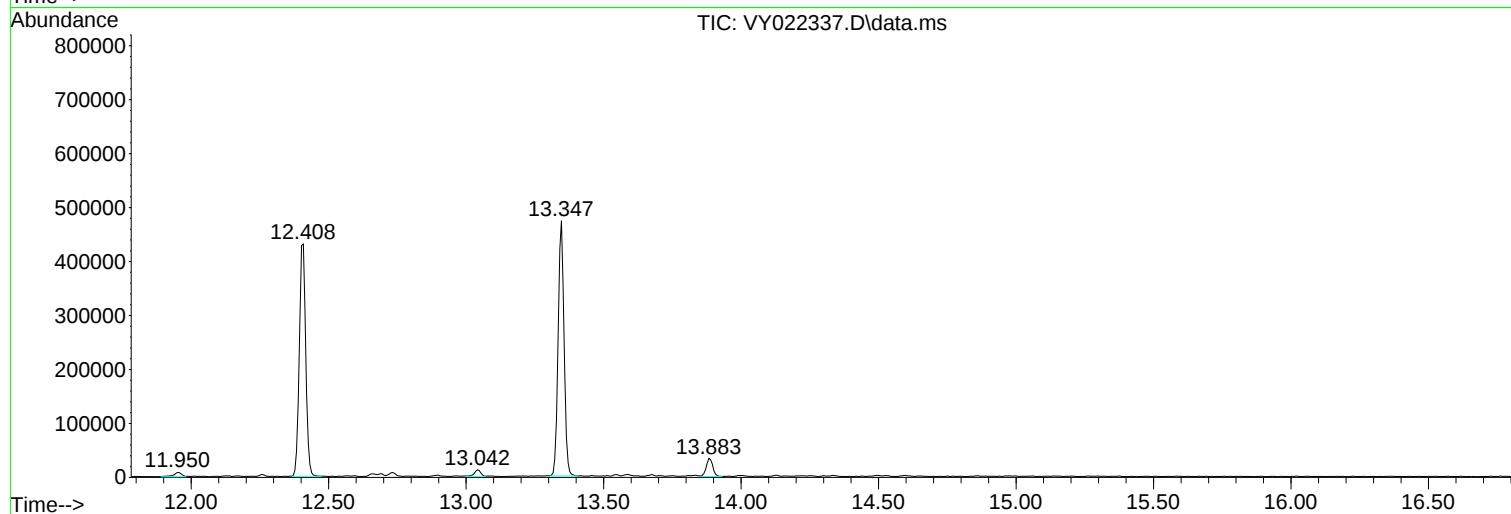
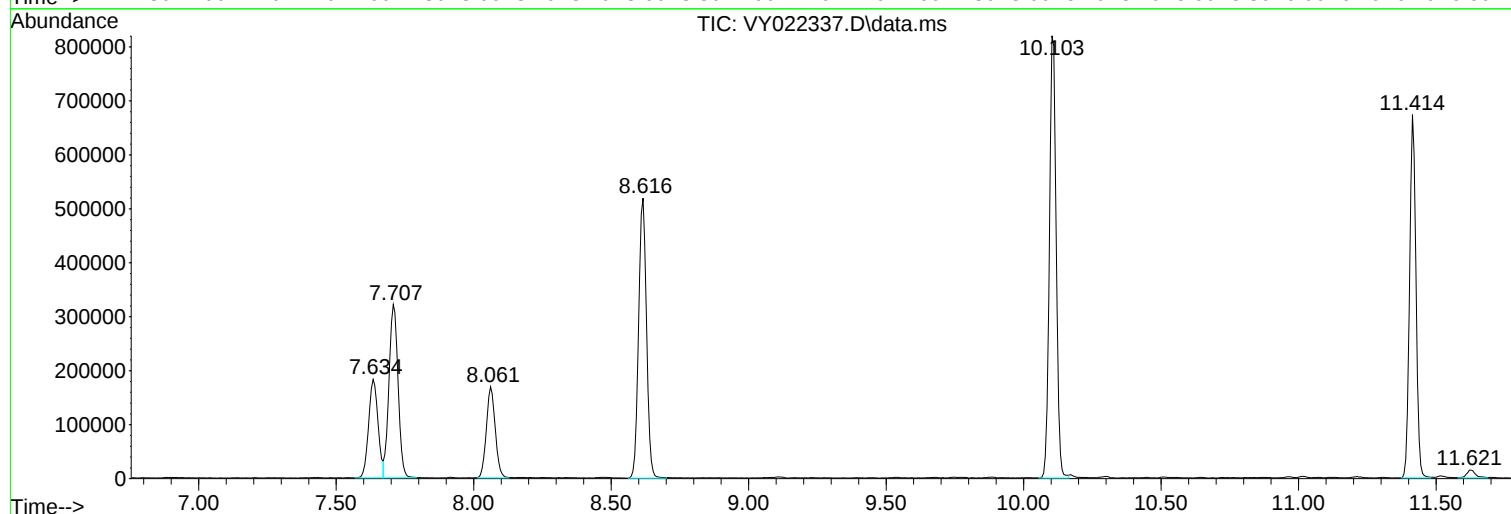
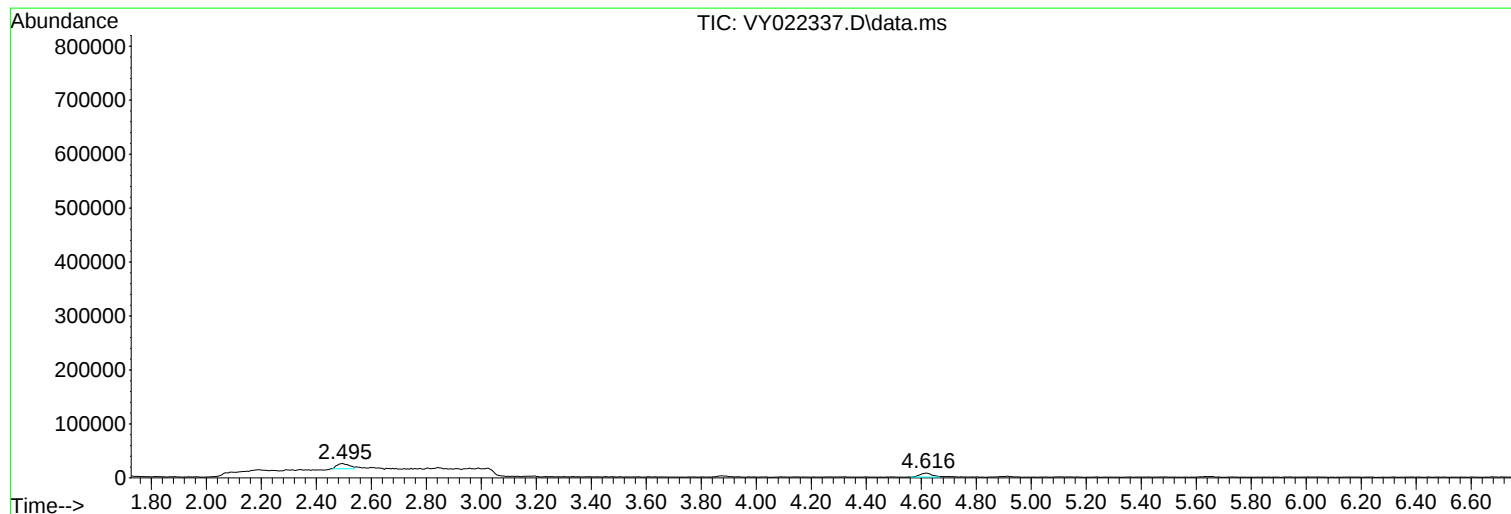
Sum of corrected areas: 6658170

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052025\
Data File : VY022337.D
Acq On : 20 May 2025 13:01
Operator : SY/MD
Sample : Q2056-03
Misc : 7.95g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
GVD13

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052025\
Data File : VY022337.D
Acq On : 20 May 2025 13:01
Operator : SY/MD
Sample : Q2056-03
Misc : 7.95g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
GVD13

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260

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

No Library Search Compounds Detected

5

A

B

C

D

E

F

G

H

I

J

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052025\
Data File : VY022337.D
Acq On : 20 May 2025 13:01
Operator : SY/MD
Sample : Q2056-03
Misc : 7.95g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
GVD13

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260

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

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

5

A

B

C

D

E

F

G

H

I

J

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052025\
 Data File : VY022338.D
 Acq On : 20 May 2025 13:25
 Operator : SY/MD
 Sample : Q2056-04
 Misc : 6.57g/5.0mL/MSVOA_Y/SOIL/A
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 GVD14

Quant Time: May 21 01:48:01 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
 Quant Title : SW846 8260
 QLast Update : Fri May 16 01:42:09 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.707	168	240752	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	423261	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	327850	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	112421	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	129742	49.309	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	98.620%
35) Dibromofluoromethane	7.634	113	127362	50.415	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	100.840%
50) Toluene-d8	10.103	98	509429	49.237	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	98.480%
62) 4-Bromofluorobenzene	12.408	95	121193	36.955	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	=	73.900%

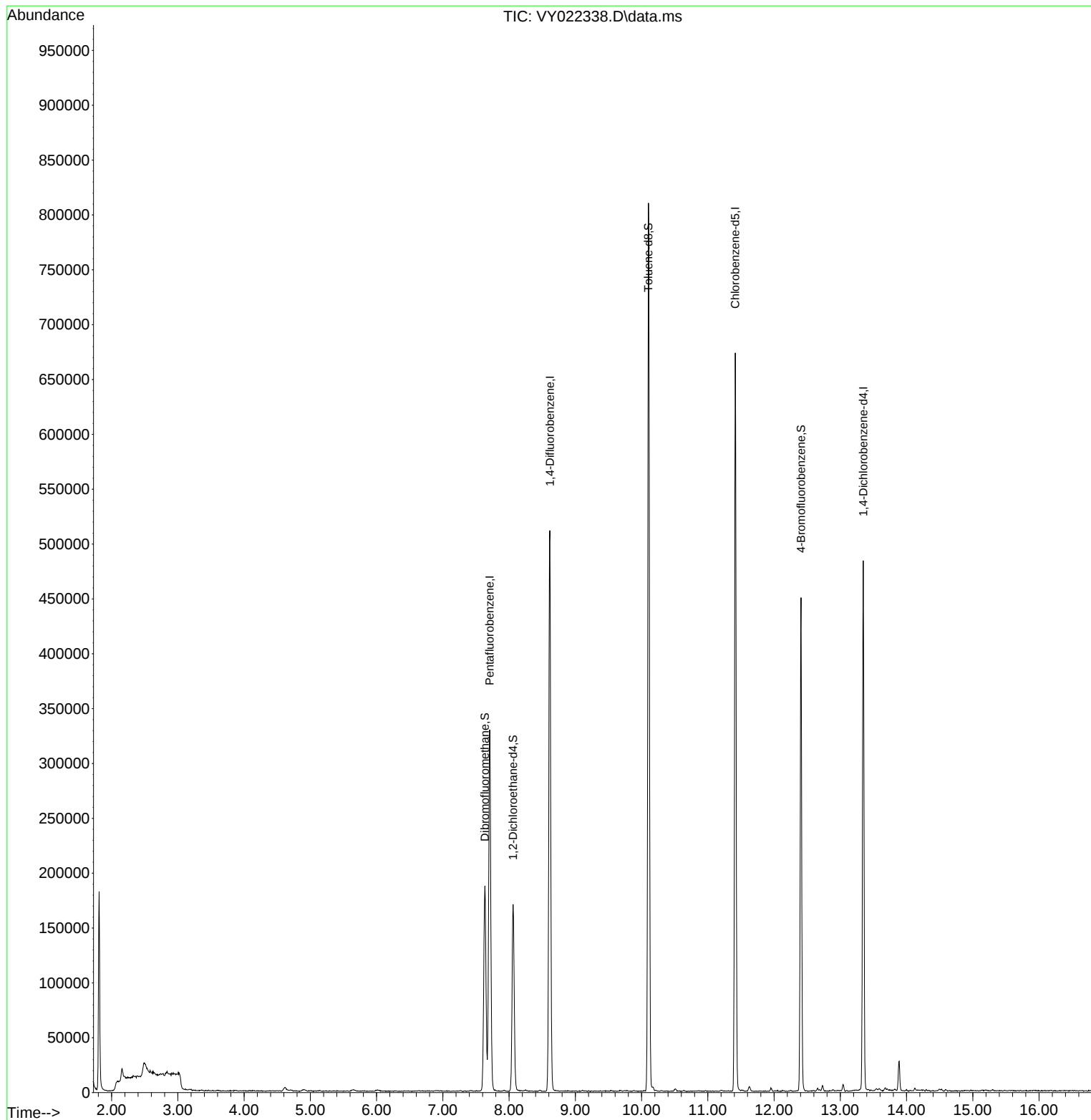
Target Compounds	Qvalue

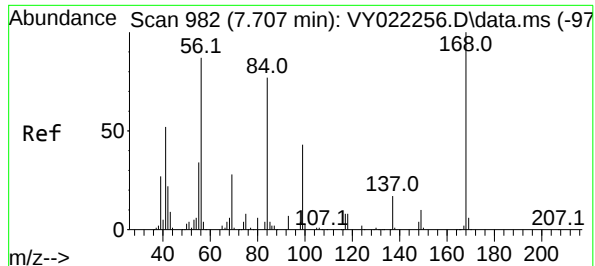
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052025\
Data File : VY022338.D
Acq On : 20 May 2025 13:25
Operator : SY/MD
Sample : Q2056-04
Misc : 6.57g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
GVD14

Quant Time: May 21 01:48:01 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:42:09 2025
Response via : Initial Calibration

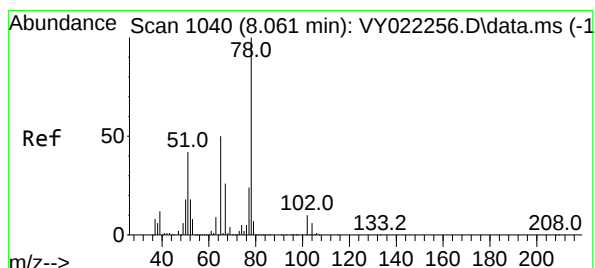
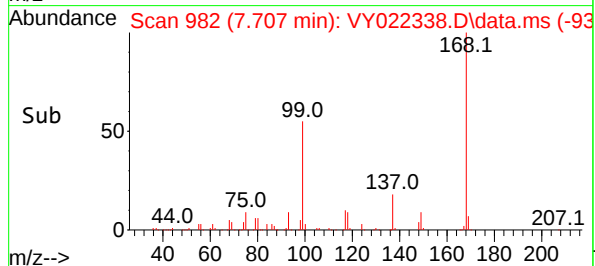
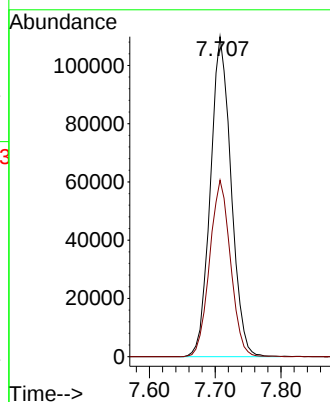
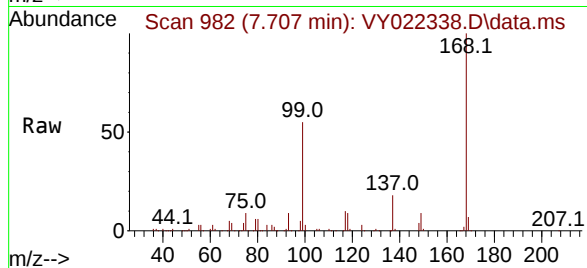




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 91
Delta R.T. 0.000 min
Lab File: VY022338.D
Acq: 20 May 2025 13:25

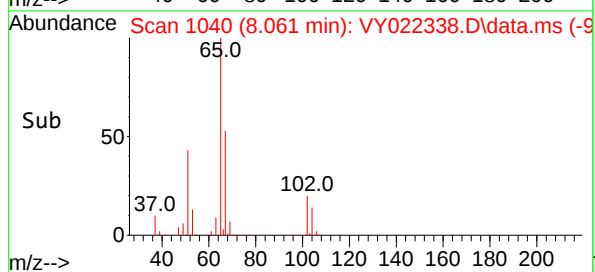
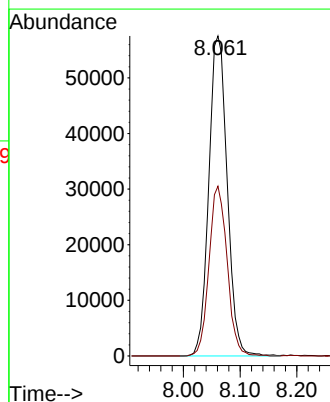
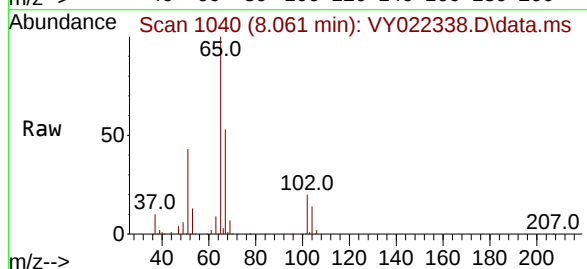
Instrument :
MSVOA_Y
ClientSampleId :
GVD14

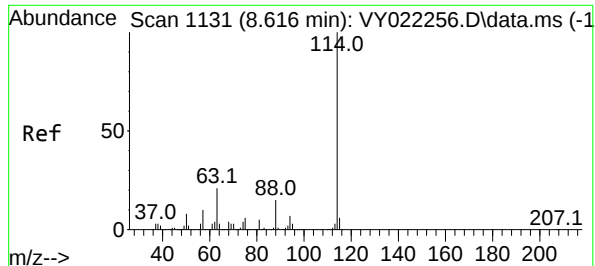
Tgt Ion:168 Resp: 240752
Ion Ratio Lower Upper
168 100
99 55.1 44.2 66.4



#33
1,2-Dichloroethane-d4
Concen: 49.309 ug/l
RT: 8.061 min Scan# 1040
Delta R.T. 0.000 min
Lab File: VY022338.D
Acq: 20 May 2025 13:25

Tgt Ion: 65 Resp: 129742
Ion Ratio Lower Upper
65 100
67 52.3 0.0 104.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.616 min Scan# 1131

Delta R.T. 0.000 min

Lab File: VY022338.D

Acq: 20 May 2025 13:25

Instrument :

MSVOA_Y

ClientSampleId :

GVD14

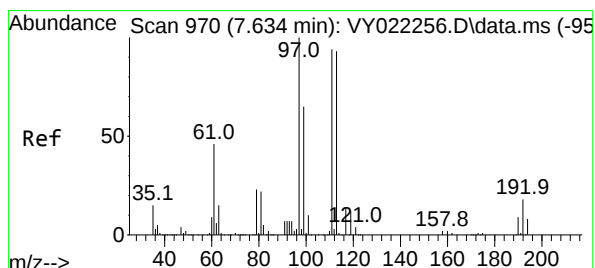
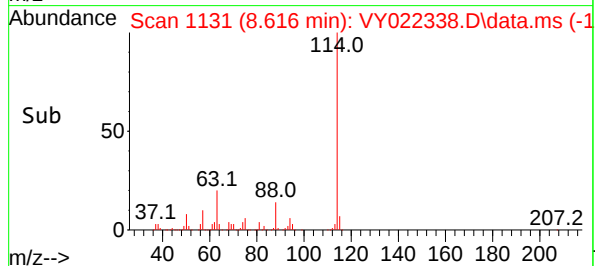
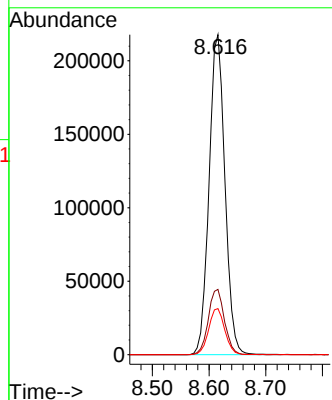
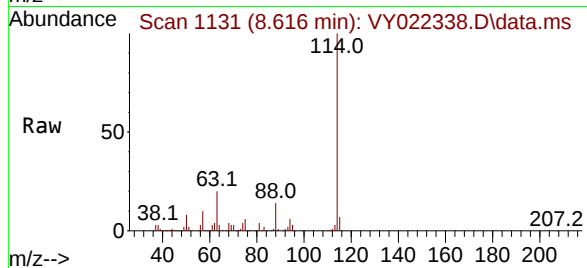
Tgt Ion:114 Resp: 423261

Ion Ratio Lower Upper

114 100

63 20.4 0.0 41.0

88 14.4 0.0 29.4



#35

Dibromofluoromethane

Concen: 50.415 ug/l

RT: 7.634 min Scan# 970

Delta R.T. 0.000 min

Lab File: VY022338.D

Acq: 20 May 2025 13:25

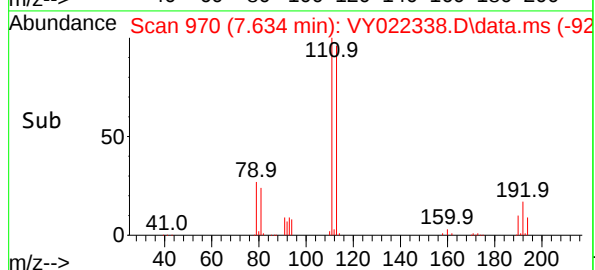
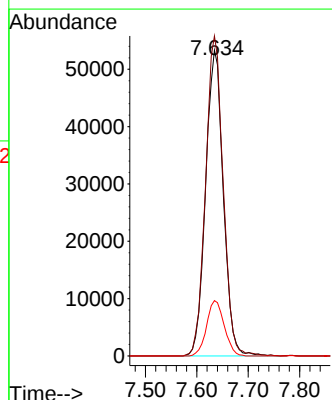
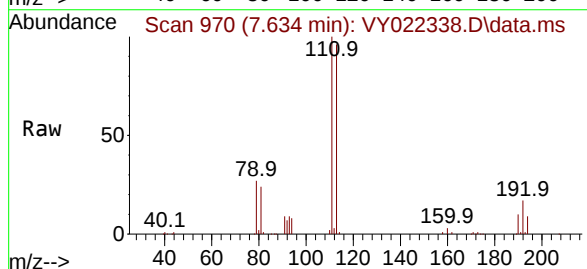
Tgt Ion:113 Resp: 127362

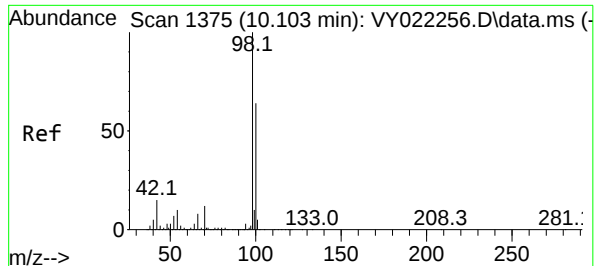
Ion Ratio Lower Upper

113 100

111 104.2 82.6 123.8

192 18.1 15.2 22.8

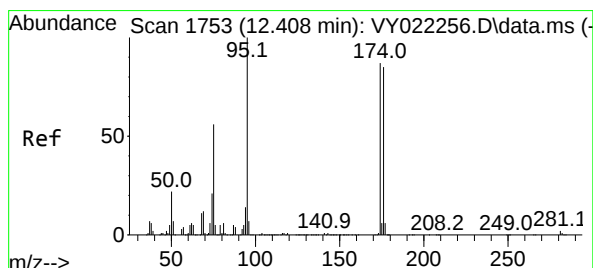
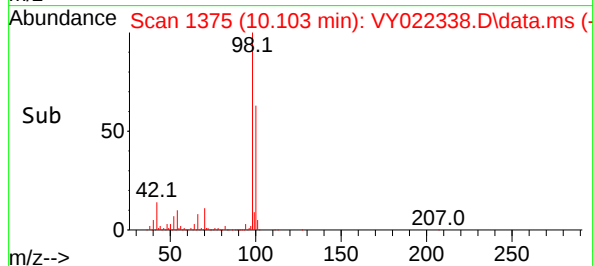
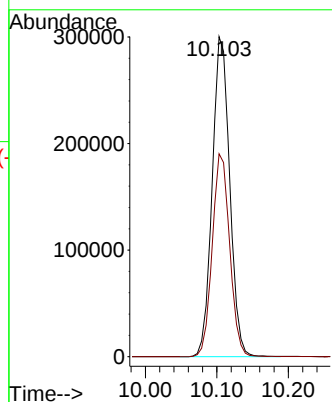
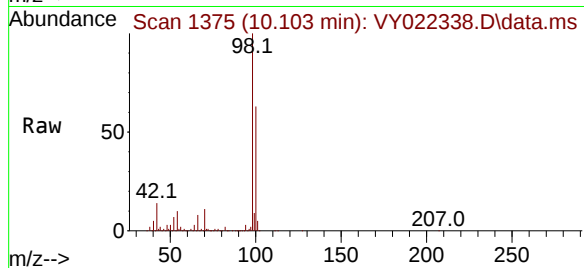




#50
Toluene-d8
Concen: 49.237 ug/l
RT: 10.103 min Scan# 11
Delta R.T. 0.000 min
Lab File: VY022338.D
Acq: 20 May 2025 13:25

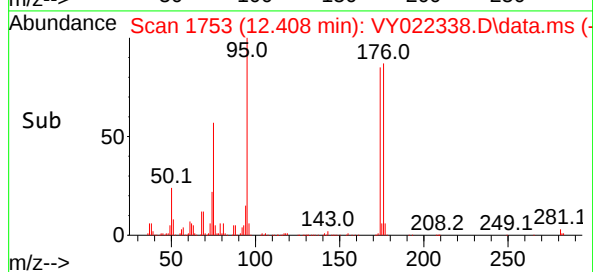
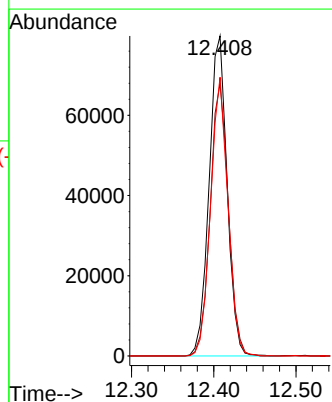
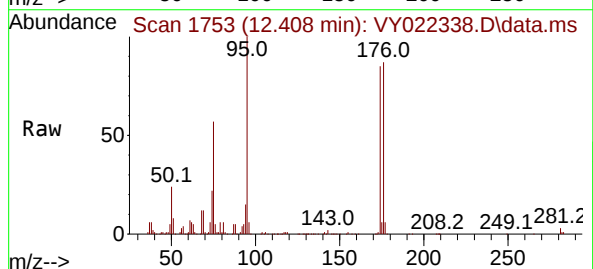
Instrument :
MSVOA_Y
ClientSampleId :
GVD14

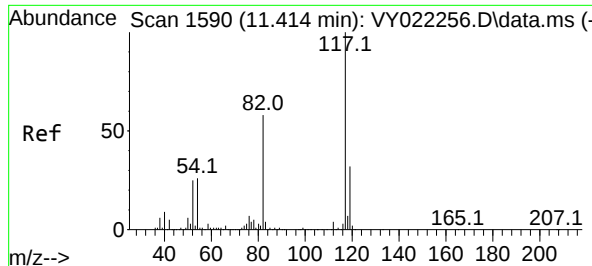
Tgt Ion: 98 Resp: 509429
Ion Ratio Lower Upper
98 100
100 63.2 51.8 77.8



#62
4-Bromofluorobenzene
Concen: 36.955 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. 0.000 min
Lab File: VY022338.D
Acq: 20 May 2025 13:25

Tgt Ion: 95 Resp: 121193
Ion Ratio Lower Upper
95 100
174 85.8 0.0 166.8
176 83.9 0.0 160.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.414 min Scan# 1590

Delta R.T. 0.000 min

Lab File: VY022338.D

Acq: 20 May 2025 13:25

Instrument :

MSVOA_Y

ClientSampleId :

GVD14

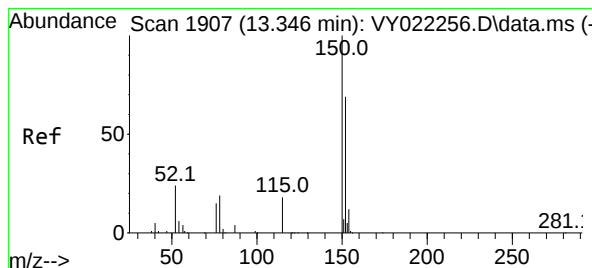
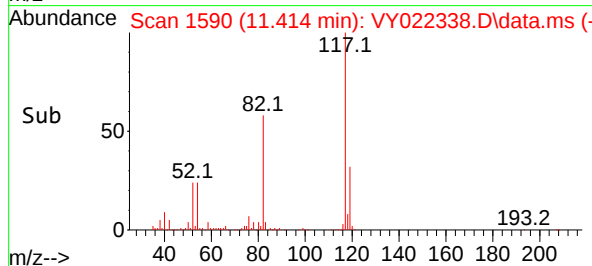
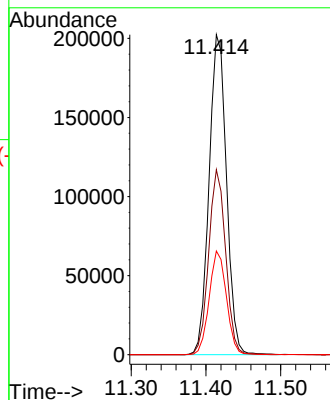
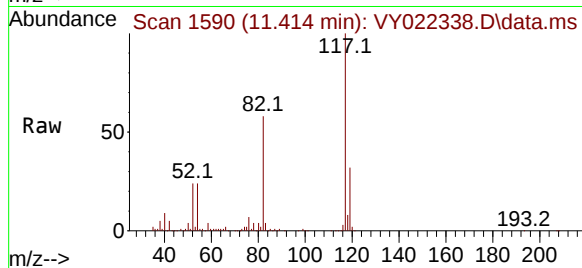
Tgt Ion:117 Resp: 327850

Ion Ratio Lower Upper

117 100

82 57.8 46.6 70.0

119 32.4 25.8 38.6



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.346 min Scan# 1907

Delta R.T. 0.000 min

Lab File: VY022338.D

Acq: 20 May 2025 13:25

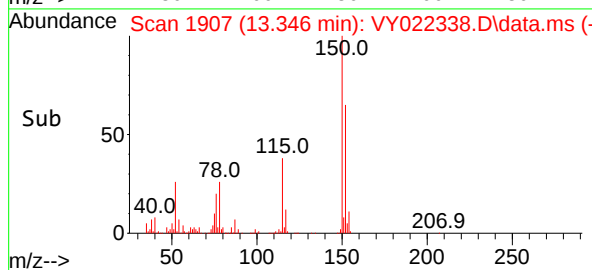
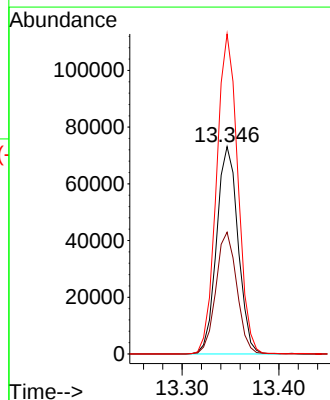
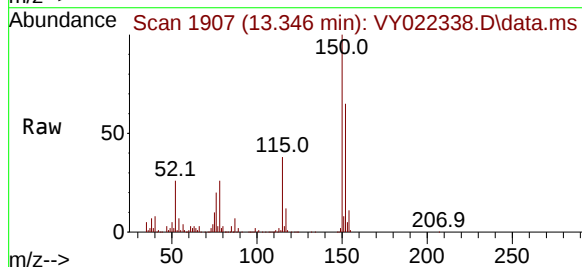
Tgt Ion:152 Resp: 112421

Ion Ratio Lower Upper

152 100

115 57.5 29.4 88.2

150 153.2 0.0 353.8



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052025\
Data File : VY022338.D
Acq On : 20 May 2025 13:25
Operator : SY/MD
Sample : Q2056-04
Misc : 6.57g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
GVD14

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_Y\methods\82Y051525S.M

Title : SW846 8260

Signal : TIC: VY022338.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.812	9	15	30	rVB	181371	244757	17.76%	3.588%
2	2.086	49	60	61	rBV3	8762	20349	1.48%	0.298%
3	2.159	67	72	76	rBV2	11035	21203	1.54%	0.311%
4	2.489	121	126	140	rBV5	9798	36184	2.63%	0.530%
5	7.634	959	970	976	rBV	186863	442414	32.11%	6.485%
6	7.707	976	982	994	rVB	328838	725041	52.62%	10.628%
7	8.061	1030	1040	1054	rBV	170555	385184	27.96%	5.646%
8	8.616	1119	1131	1143	rBV	511290	1012438	73.48%	14.840%
9	10.103	1368	1375	1384	rBV	809576	1377802	100.00%	20.196%
10	11.414	1582	1590	1601	rBV	673008	1082746	78.59%	15.871%
11	12.408	1744	1753	1763	rBV	449777	700767	50.86%	10.272%
12	13.346	1898	1907	1915	rBV	482340	730060	52.99%	10.701%
13	13.889	1990	1996	2001	rBV2	26727	43222	3.14%	0.634%

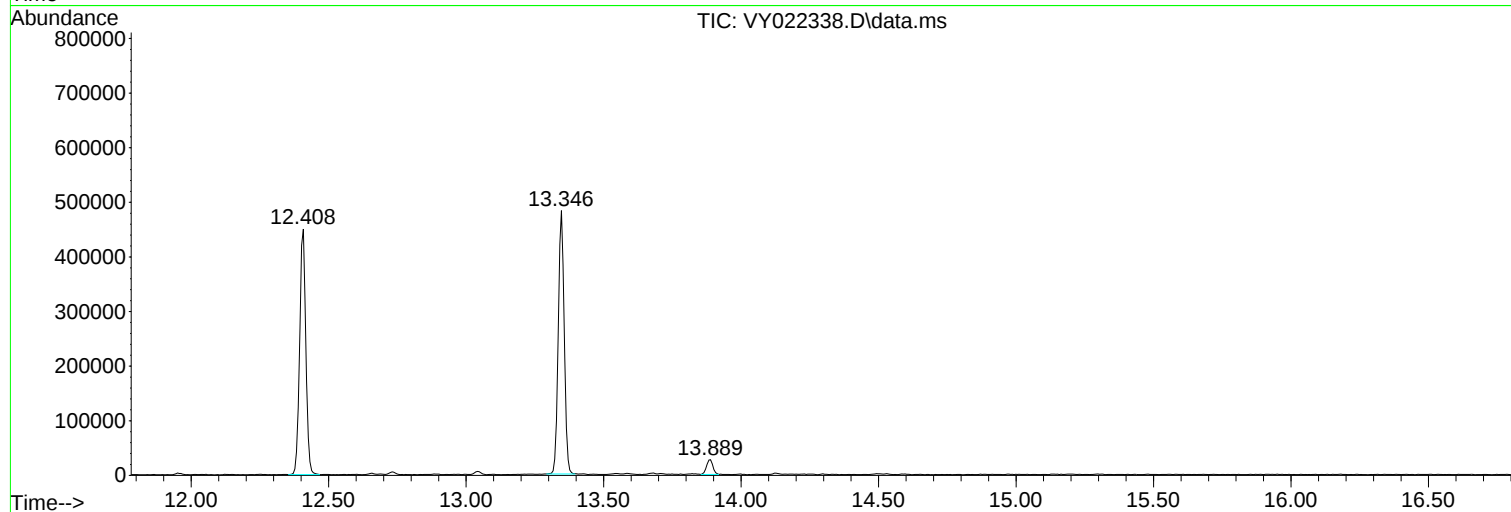
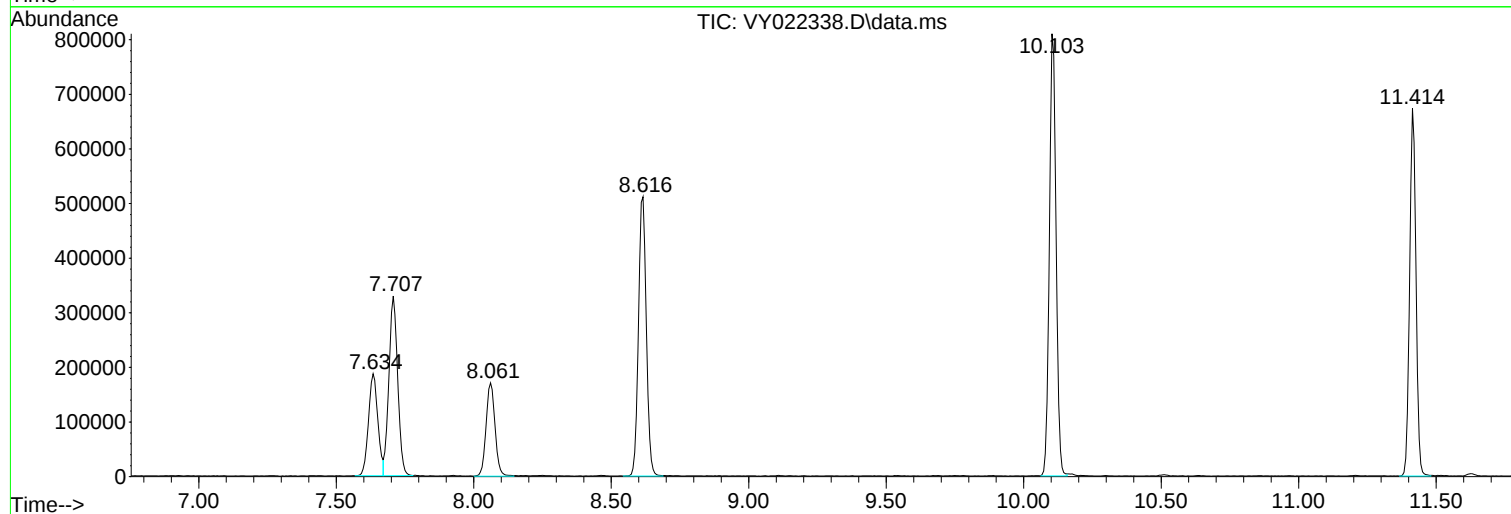
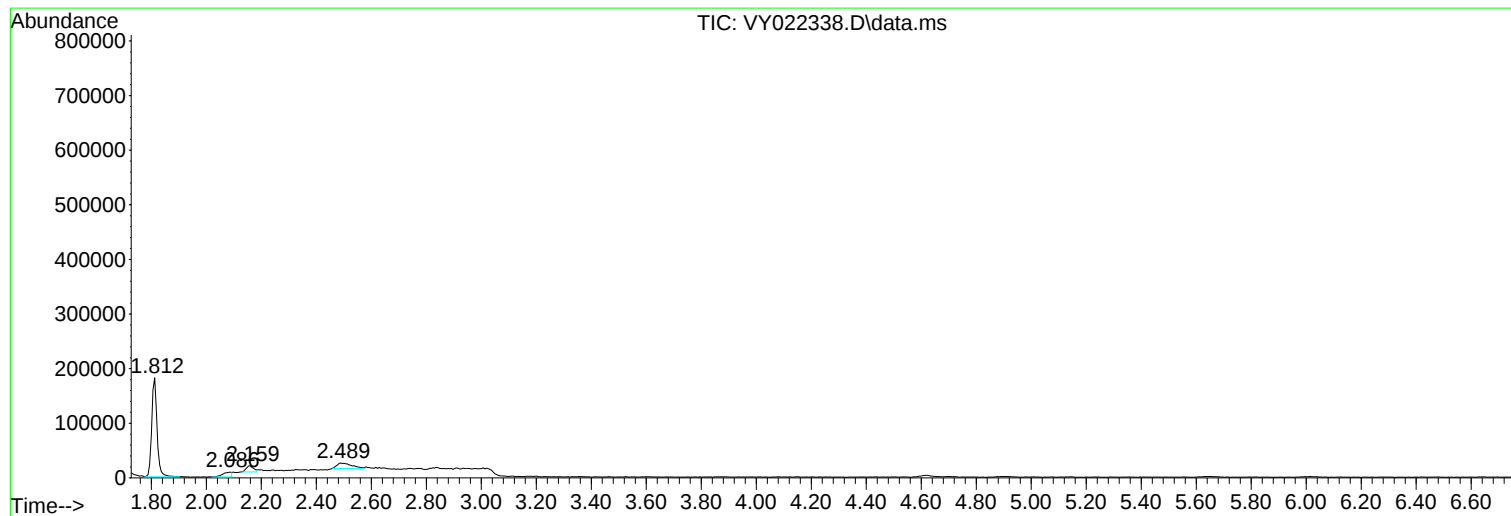
Sum of corrected areas: 6822167

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052025\
Data File : VY022338.D
Acq On : 20 May 2025 13:25
Operator : SY/MD
Sample : Q2056-04
Misc : 6.57g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
GVD14

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052025\
Data File : VY022338.D
Acq On : 20 May 2025 13:25
Operator : SY/MD
Sample : Q2056-04
Misc : 6.57g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
GVD14

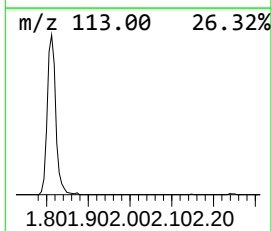
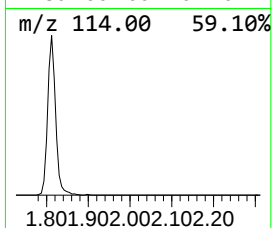
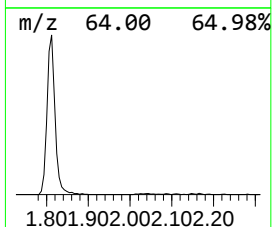
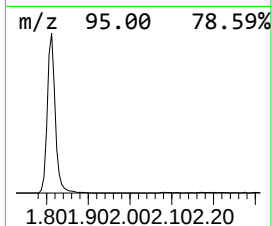
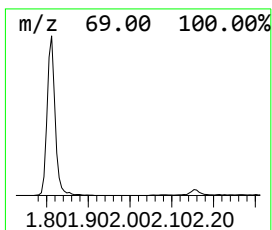
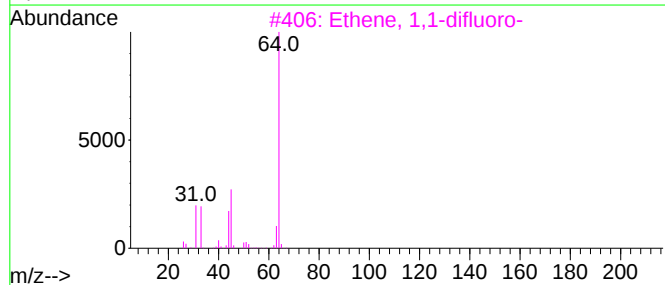
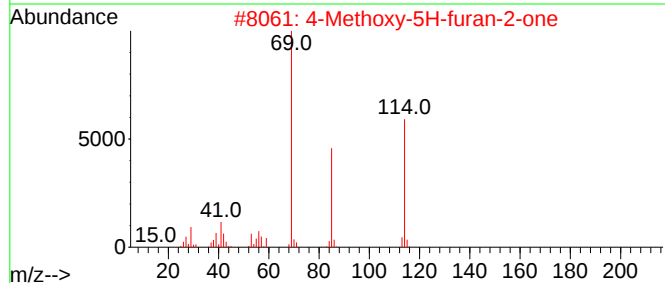
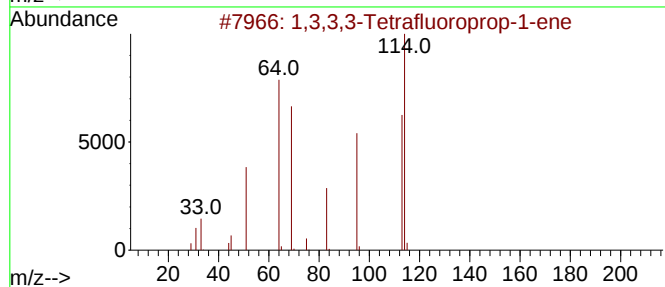
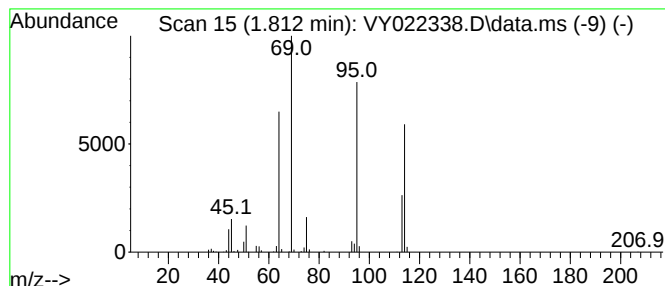
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260

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

Peak Number 1 unknown1.812 Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
1.812	16.88 ug/l	244757	Pentafluorobenzene	7.707

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			1,3,3,3-Tetrafluoroprop-1-ene	114	C3H2F4	1000389-53-0	25
2			4-Methoxy-5H-furan-2-one	114	C5H6O3	069556-70-3	14
3			Ethene, 1,1-difluoro-	64	C2H2F2	000075-38-7	12
4			4-Pyridinol	95	C5H5NO	000626-64-2	9
5			2-Pentenoic acid, 2-methyl-	114	C6H10O2	003142-72-1	9



5

A

B

C

D

E

F

G

H

I

J

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052025\
Data File : VY022338.D
Acq On : 20 May 2025 13:25
Operator : SY/MD
Sample : Q2056-04
Misc : 6.57g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
GVD14

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260

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

TIC Top Hit name	RT	EstConc	Units	Response	--Internal Standard--			
					#	RT	Resp	Conc
unknown1.812	1.812	16.9	ug/l	244757	1	7.707	725041	50.0

5

A

B

C

D

E

F

G

H

I

J

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052125\
 Data File : VY022358.D
 Acq On : 21 May 2025 11:37
 Operator : SY/MD
 Sample : Q2056-05
 Misc : 6.92g/5.0mL/MSVOA_Y/SOIL/B
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 GVD15

Quant Time: May 22 00:07:33 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
 Quant Title : SW846 8260
 QLast Update : Fri May 16 01:42:09 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.713	168	236757	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.622	114	411751	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	277651	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.353	152	64045	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.067	65	125446	48.481	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	96.960%
35) Dibromofluoromethane	7.640	113	125883	51.223	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	102.440%
50) Toluene-d8	10.109	98	473741	47.067	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	94.140%
62) 4-Bromofluorobenzene	12.414	95	88724	27.811	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	=	55.620%

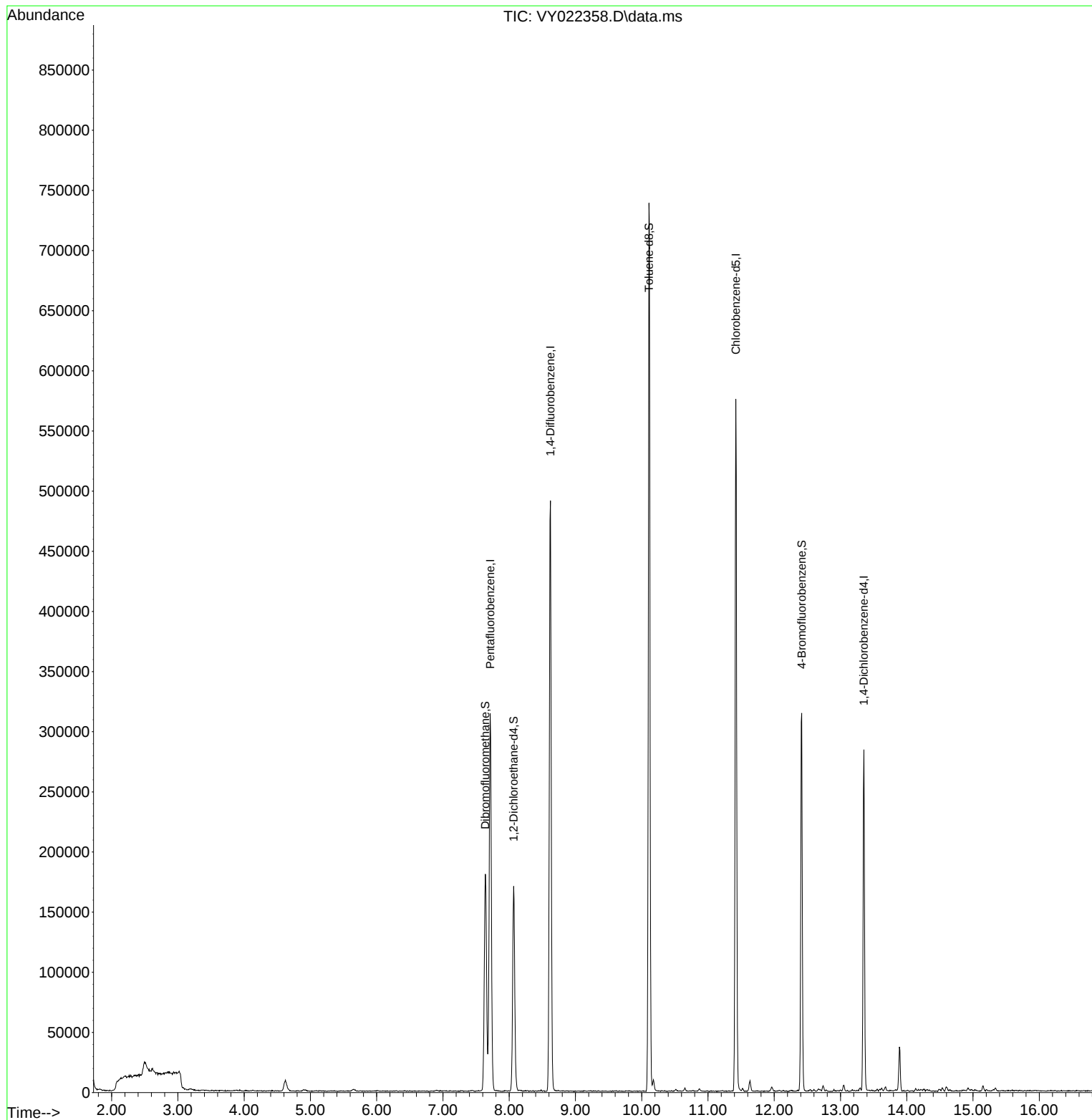
Target Compounds	Qvalue

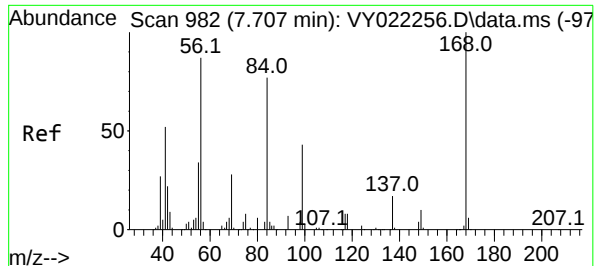
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052125\
Data File : VY022358.D
Acq On : 21 May 2025 11:37
Operator : SY/MD
Sample : Q2056-05
Misc : 6.92g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
GVD15

Quant Time: May 22 00:07:33 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:42:09 2025
Response via : Initial Calibration

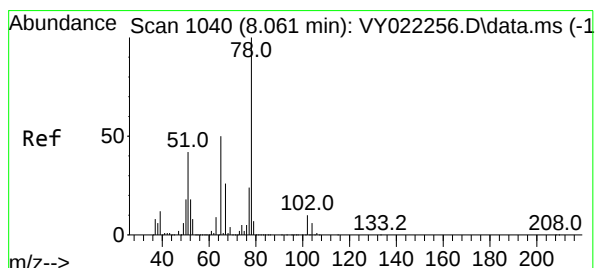
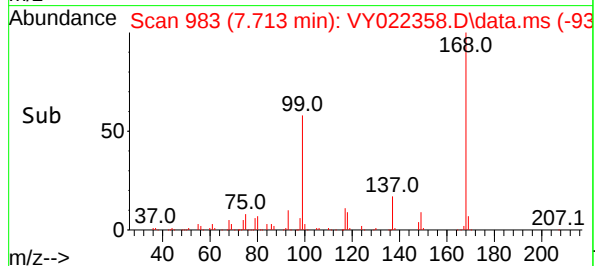
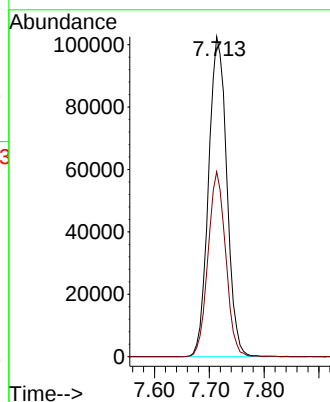
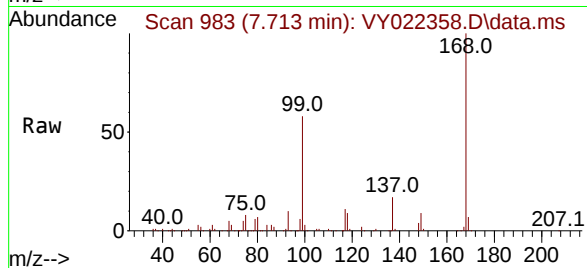




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 99
Delta R.T. 0.006 min
Lab File: VY022358.D
Acq: 21 May 2025 11:37

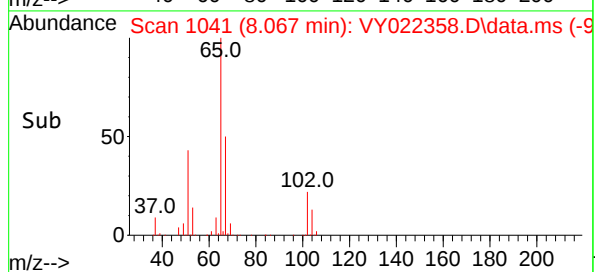
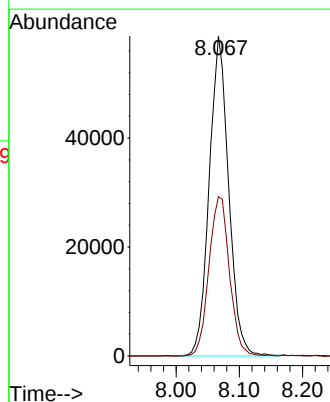
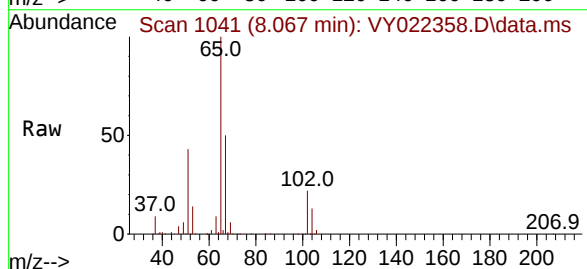
Instrument :
MSVOA_Y
ClientSampleId :
GVD15

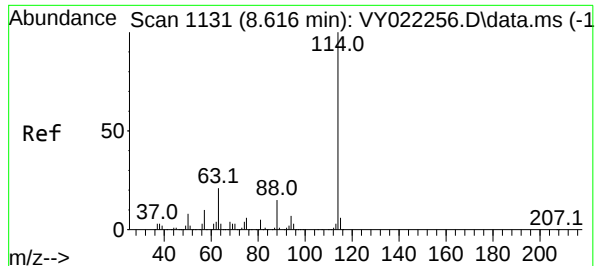
Tgt Ion:168 Resp: 236757
Ion Ratio Lower Upper
168 100
99 57.8 44.2 66.4



#33
1,2-Dichloroethane-d4
Concen: 48.481 ug/l
RT: 8.067 min Scan# 1041
Delta R.T. 0.006 min
Lab File: VY022358.D
Acq: 21 May 2025 11:37

Tgt Ion: 65 Resp: 125446
Ion Ratio Lower Upper
65 100
67 52.5 0.0 104.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.622 min Scan# 1131

Delta R.T. 0.006 min

Lab File: VY022358.D

Acq: 21 May 2025 11:37

Instrument :

MSVOA_Y

ClientSampleId :

GVD15

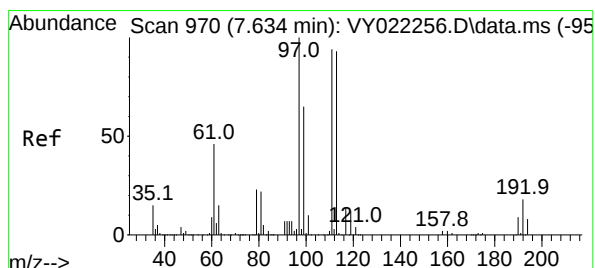
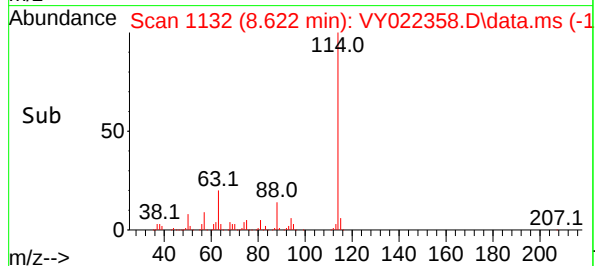
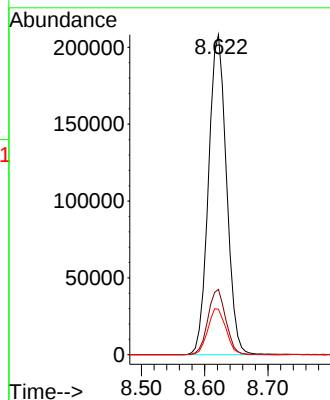
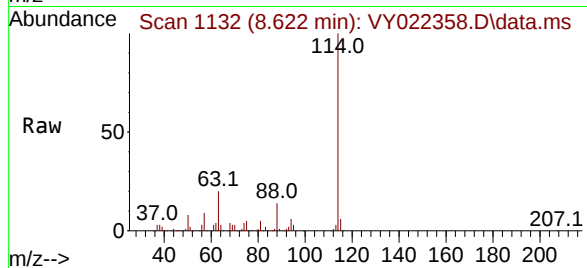
Tgt Ion:114 Resp: 411751

Ion Ratio Lower Upper

114 100

63 20.4 0.0 41.0

88 14.2 0.0 29.4



#35

Dibromofluoromethane

Concen: 51.223 ug/l

RT: 7.640 min Scan# 971

Delta R.T. 0.006 min

Lab File: VY022358.D

Acq: 21 May 2025 11:37

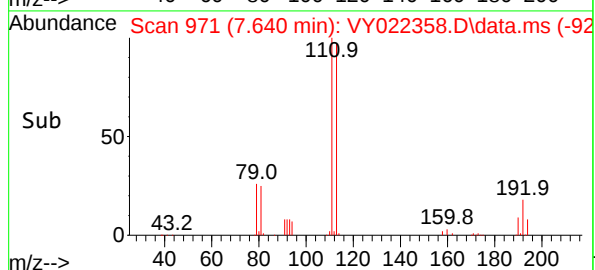
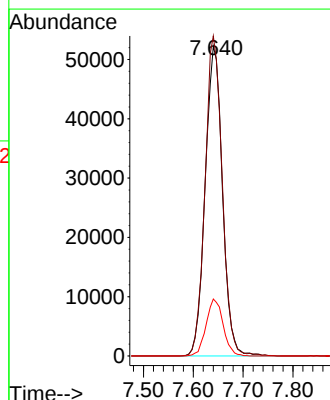
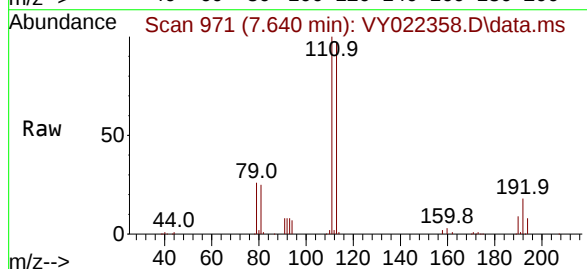
Tgt Ion:113 Resp: 125883

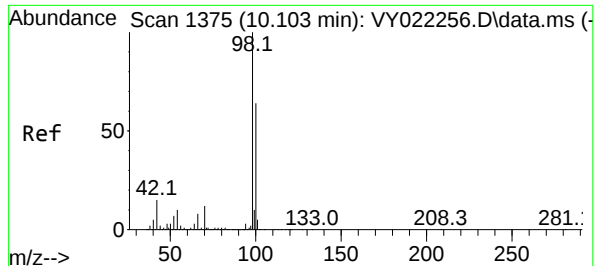
Ion Ratio Lower Upper

113 100

111 102.5 82.6 123.8

192 18.1 15.2 22.8





#50

Toluene-d8

Concen: 47.067 ug/l

RT: 10.109 min Scan# 11

Delta R.T. 0.006 min

Lab File: VY022358.D

Acq: 21 May 2025 11:37

Instrument :

MSVOA_Y

ClientSampleId :

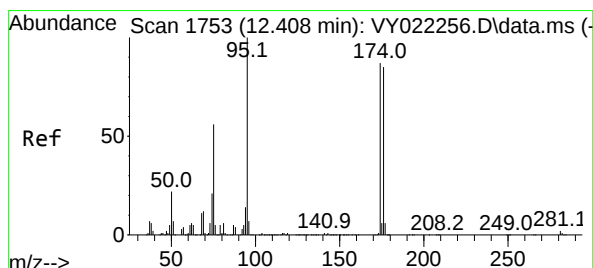
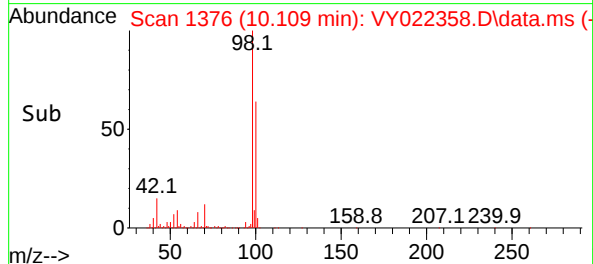
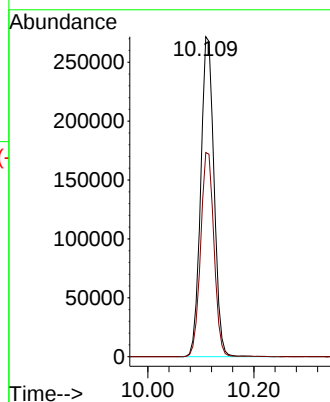
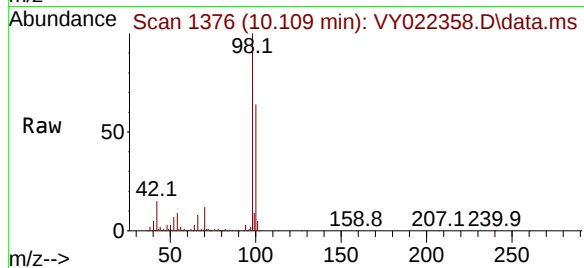
GVD15

Tgt Ion: 98 Resp: 473741

Ion Ratio Lower Upper

98 100

100 64.1 51.8 77.8



#62

4-Bromofluorobenzene

Concen: 27.811 ug/l

RT: 12.414 min Scan# 1754

Delta R.T. 0.006 min

Lab File: VY022358.D

Acq: 21 May 2025 11:37

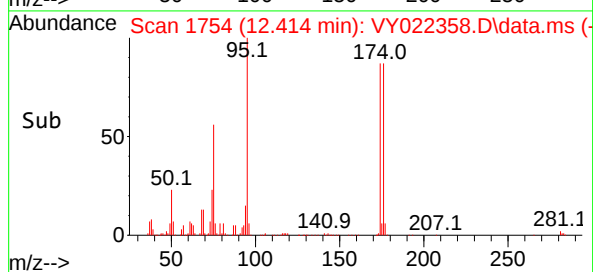
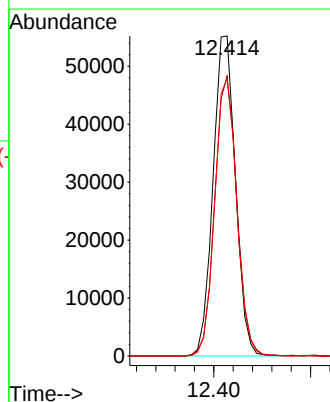
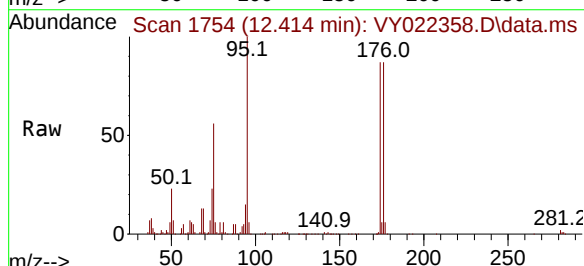
Tgt Ion: 95 Resp: 88724

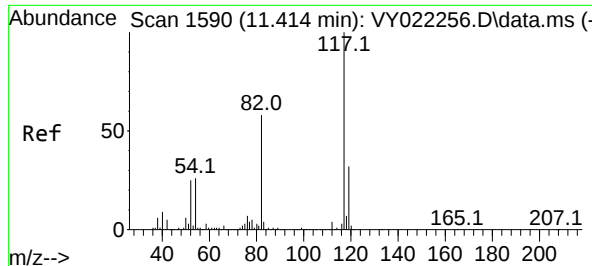
Ion Ratio Lower Upper

95 100

174 86.2 0.0 166.8

176 85.4 0.0 160.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.420 min Scan# 11

Delta R.T. 0.006 min

Lab File: VY022358.D

Acq: 21 May 2025 11:37

Instrument :

MSVOA_Y

ClientSampleId :

GVD15

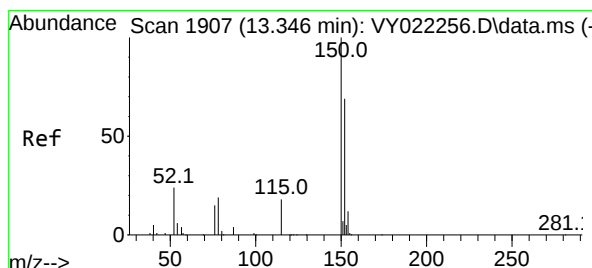
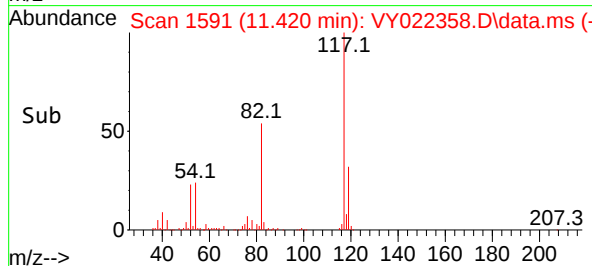
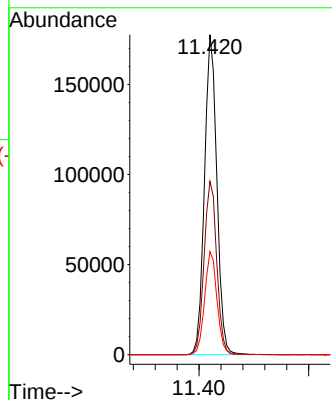
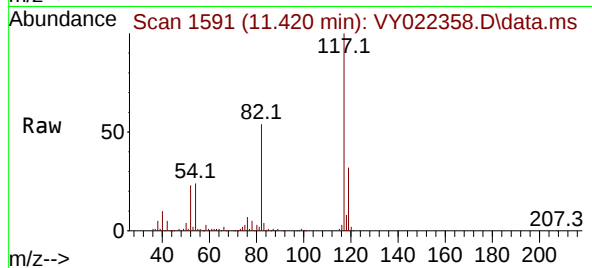
Tgt Ion:117 Resp: 277651

Ion Ratio Lower Upper

117 100

82 54.2 46.6 70.0

119 32.2 25.8 38.6



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.353 min Scan# 1908

Delta R.T. 0.006 min

Lab File: VY022358.D

Acq: 21 May 2025 11:37

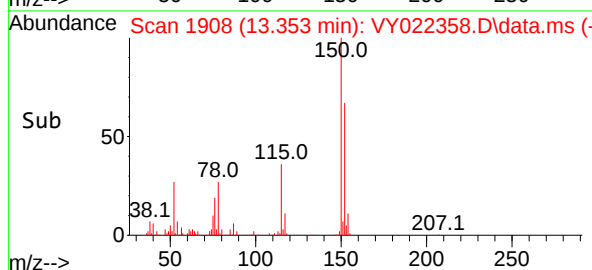
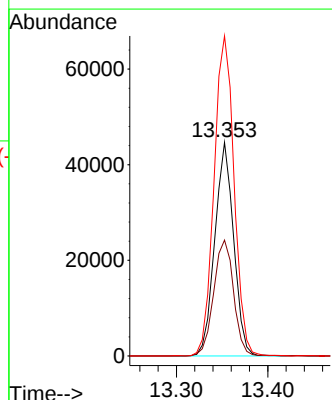
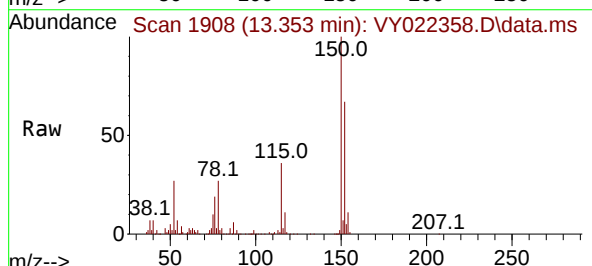
Tgt Ion:152 Resp: 64045

Ion Ratio Lower Upper

152 100

115 57.4 29.4 88.2

150 159.2 0.0 353.8



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052125\
Data File : VY022358.D
Acq On : 21 May 2025 11:37
Operator : SY/MD
Sample : Q2056-05
Misc : 6.92g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
GVD15

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_Y\methods\82Y051525S.M
Title : SW846 8260

Signal : TIC: VY022358.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.495	121	127	128	rBV5	10104	17099	1.33%	0.297%
2	4.622	465	476	487	rBV2	9083	27677	2.15%	0.480%
3	7.640	955	971	977	rBV	180315	432275	33.62%	7.497%
4	7.713	977	983	994	rVB2	313315	711413	55.33%	12.337%
5	8.067	1031	1041	1052	rBV	170329	376233	29.26%	6.525%
6	8.622	1123	1132	1142	rBV	490817	974796	75.82%	16.905%
7	10.109	1369	1376	1384	rBV	738631	1285746	100.00%	22.297%
8	10.176	1384	1387	1397	rVB2	9348	16365	1.27%	0.284%
9	11.420	1584	1591	1605	rBV	575069	910644	70.83%	15.792%
10	11.633	1619	1626	1634	rBV2	8809	15891	1.24%	0.276%
11	12.414	1747	1754	1764	rVB	314225	510931	39.74%	8.861%
12	13.353	1901	1908	1916	rBV	283069	427565	33.25%	7.415%
13	13.889	1990	1996	2002	rVB2	36742	59697	4.64%	1.035%

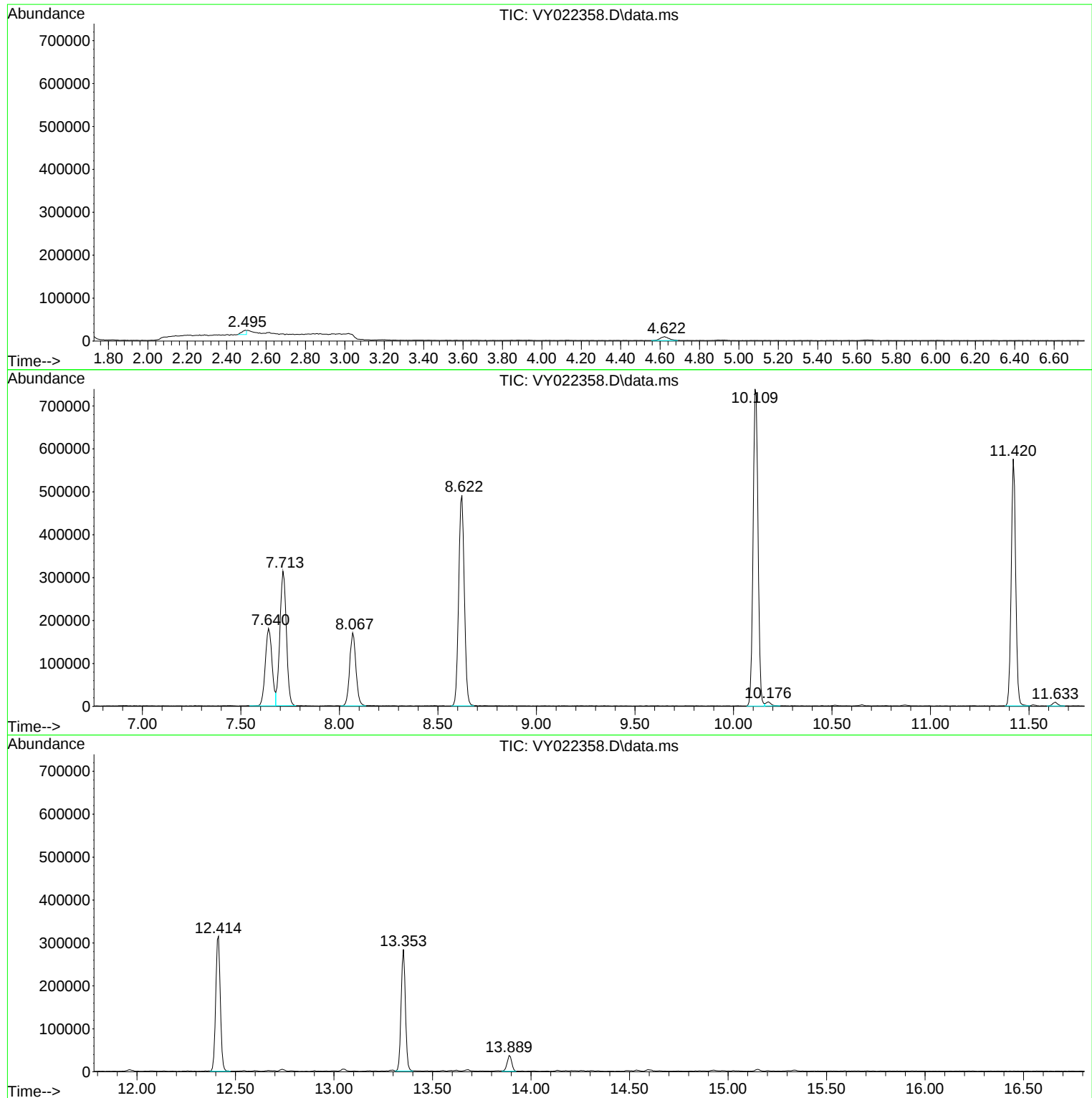
Sum of corrected areas: 5766332

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052125\
Data File : VY022358.D
Acq On : 21 May 2025 11:37
Operator : SY/MD
Sample : Q2056-05
Misc : 6.92g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
GVD15

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052125\
Data File : VY022358.D
Acq On : 21 May 2025 11:37
Operator : SY/MD
Sample : Q2056-05
Misc : 6.92g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
GVD15

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260

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

No Library Search Compounds Detected

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Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052125\
Data File : VY022358.D
Acq On : 21 May 2025 11:37
Operator : SY/MD
Sample : Q2056-05
Misc : 6.92g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
GVD15

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260

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

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

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Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY051925\
 Data File : VY022304.D
 Acq On : 19 May 2025 09:00
 Operator : SY/MD
 Sample : VY0519SBL01
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VY0519SBL01

Quant Time: May 20 01:08:12 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
 Quant Title : SW846 8260
 QLast Update : Fri May 16 01:42:09 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.707	168	331048	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	571469	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	438659	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	158015	50.000	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.061	65	148693	41.098	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	82.200%
35) Dibromofluoromethane	7.634	113	161852	47.452	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	94.900%
50) Toluene-d8	10.109	98	681316	48.772	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	97.540%
62) 4-Bromofluorobenzene	12.408	95	166911	37.696	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	=	75.400%

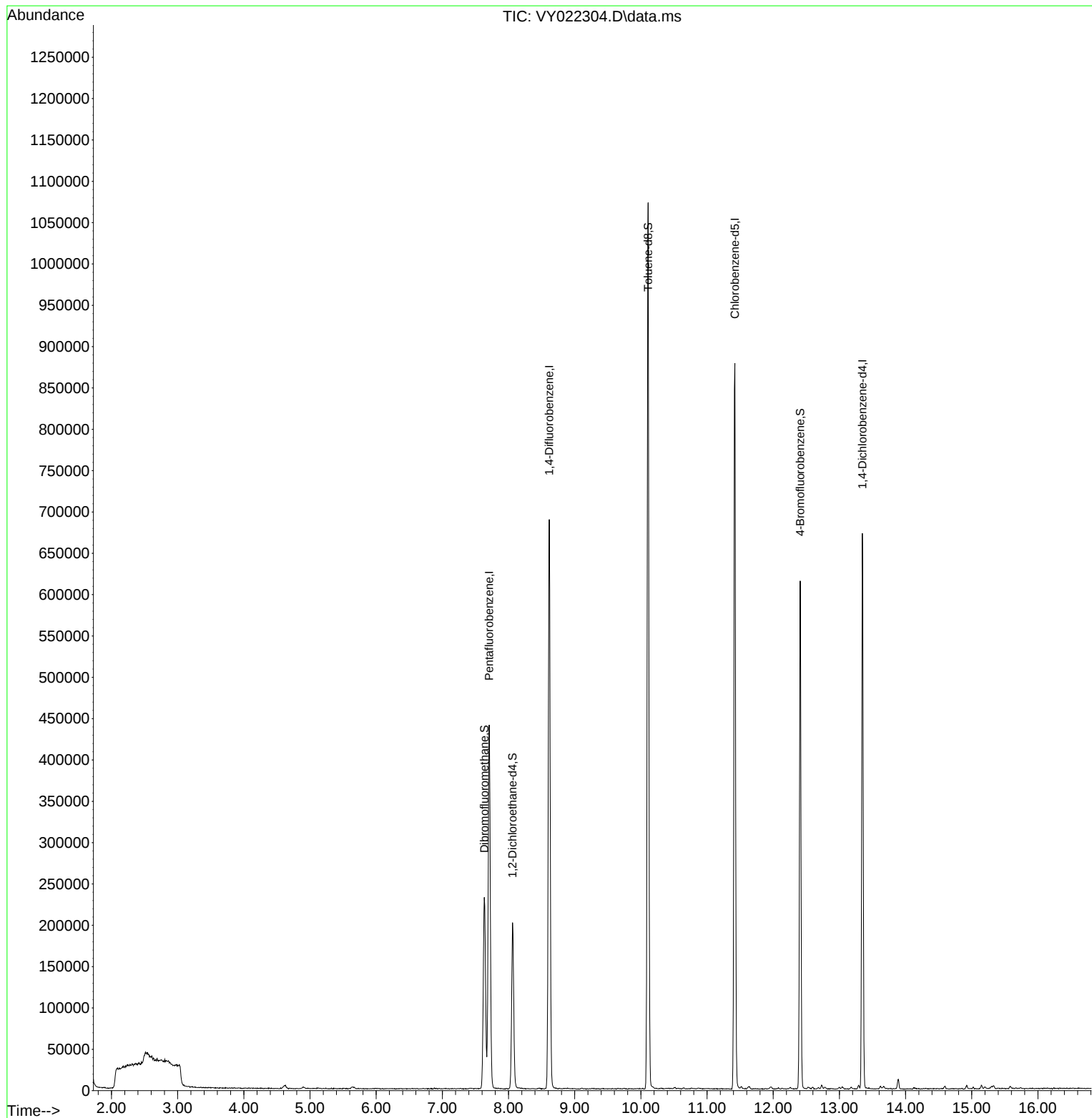
Target Compounds Qvalue

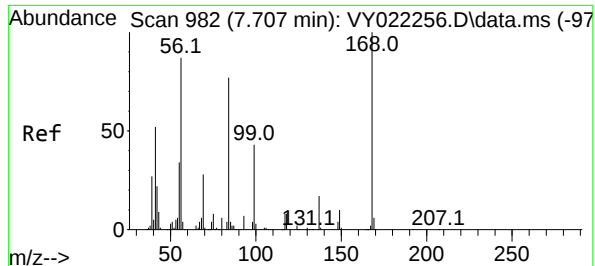
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY051925\
Data File : VY022304.D
Acq On : 19 May 2025 09:00
Operator : SY/MD
Sample : VY0519SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0519SBL01

Quant Time: May 20 01:08:12 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:42:09 2025
Response via : Initial Calibration

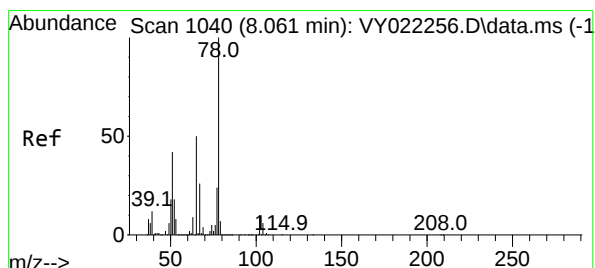
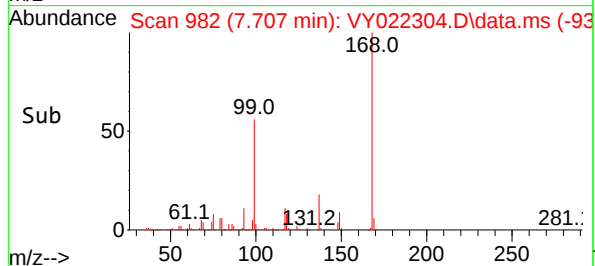
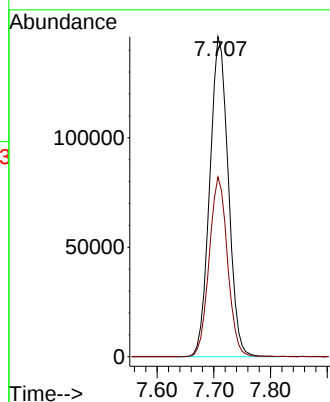
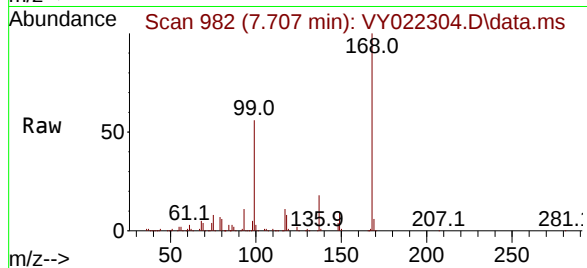




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 982
Delta R.T. 0.000 min
Lab File: VY022304.D
Acq: 19 May 2025 09:00

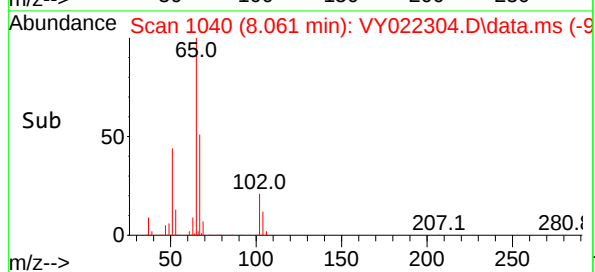
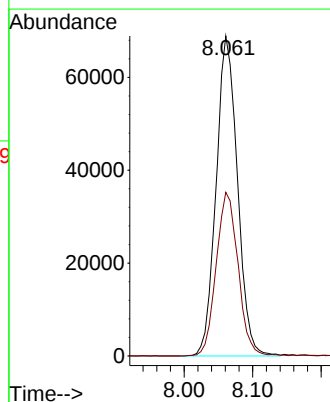
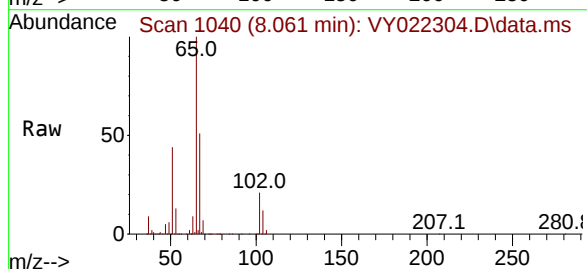
Instrument :
MSVOA_Y
ClientSampleId :
VY0519SBL01

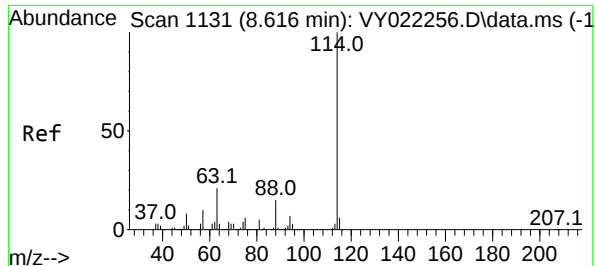
Tgt Ion:168 Resp: 331048
Ion Ratio Lower Upper
168 100
99 56.1 44.2 66.4



#33
1,2-Dichloroethane-d4
Concen: 41.098 ug/l
RT: 8.061 min Scan# 1040
Delta R.T. -0.000 min
Lab File: VY022304.D
Acq: 19 May 2025 09:00

Tgt Ion: 65 Resp: 148693
Ion Ratio Lower Upper
65 100
67 52.5 0.0 104.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.616 min Scan# 1131

Delta R.T. 0.000 min

Lab File: VY022304.D

Acq: 19 May 2025 09:00

Instrument :

MSVOA_Y

ClientSampleId :

VY0519SBL01

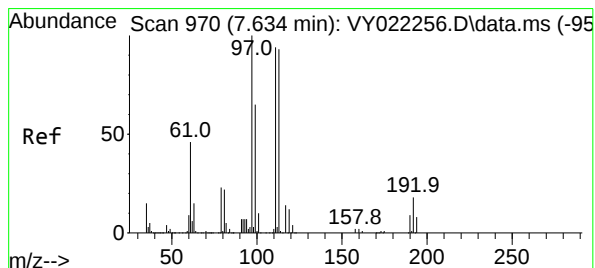
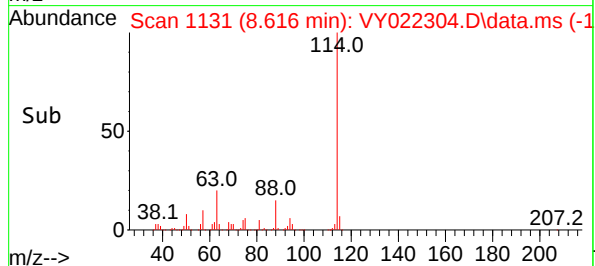
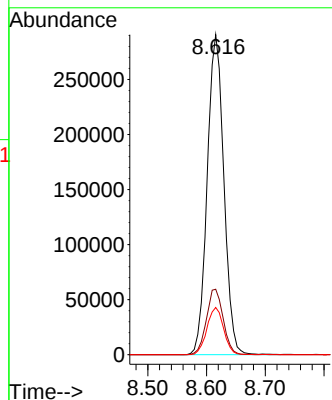
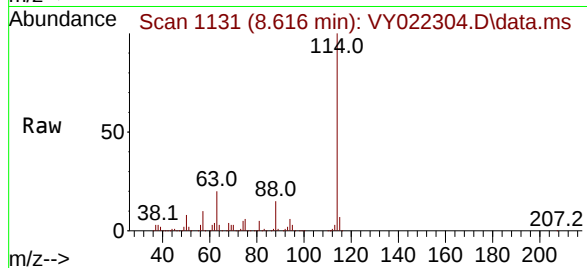
Tgt Ion:114 Resp: 571469

Ion Ratio Lower Upper

114 100

63 20.4 0.0 41.0

88 14.7 0.0 29.4



#35

Dibromofluoromethane

Concen: 47.452 ug/l

RT: 7.634 min Scan# 970

Delta R.T. 0.000 min

Lab File: VY022304.D

Acq: 19 May 2025 09:00

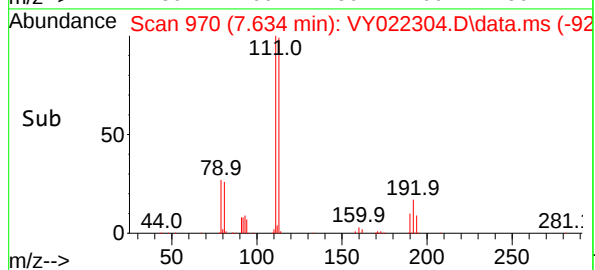
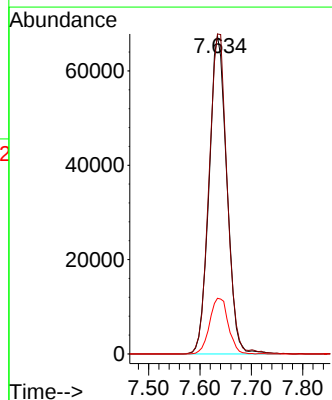
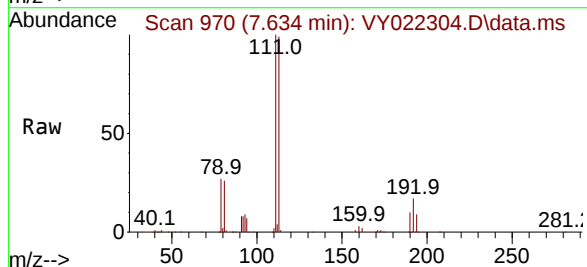
Tgt Ion:113 Resp: 161852

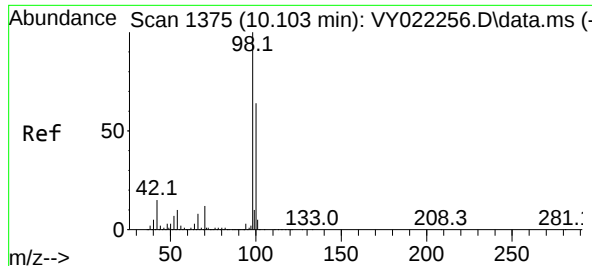
Ion Ratio Lower Upper

113 100

111 102.3 82.6 123.8

192 18.3 15.2 22.8

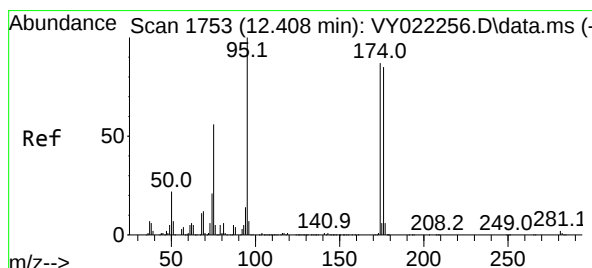
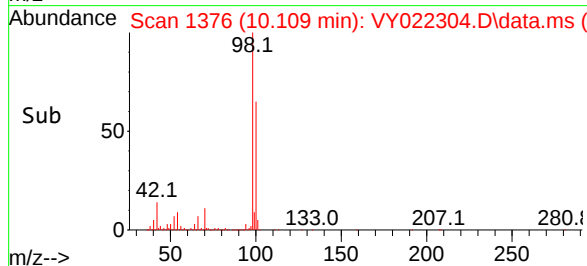
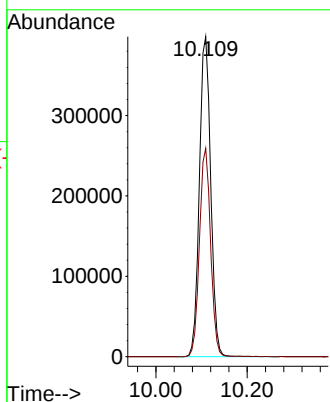
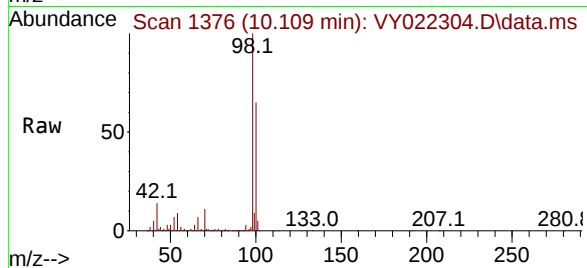




#50
Toluene-d8
Concen: 48.772 ug/l
RT: 10.109 min Scan# 1375
Delta R.T. 0.006 min
Lab File: VY022304.D
Acq: 19 May 2025 09:00

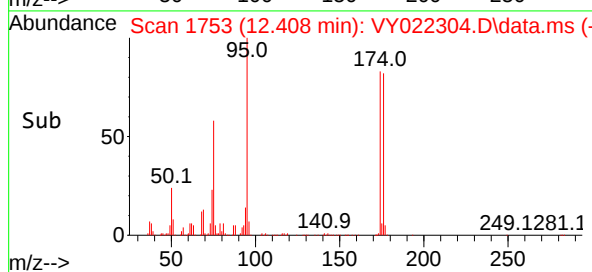
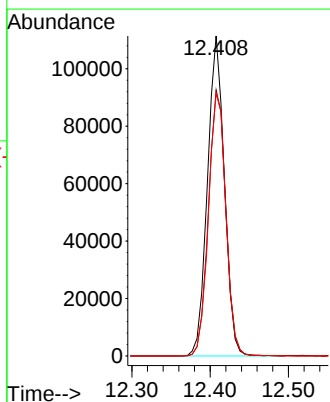
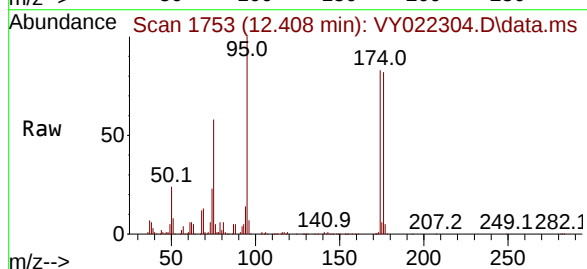
Instrument :
MSVOA_Y
ClientSampleId :
VY0519SBL01

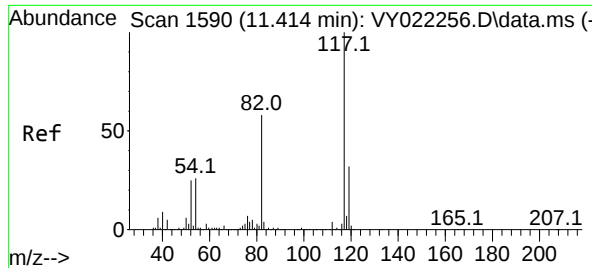
Tgt Ion: 98 Resp: 681316
Ion Ratio Lower Upper
98 100
100 64.1 51.8 77.8



#62
4-Bromofluorobenzene
Concen: 37.696 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. 0.000 min
Lab File: VY022304.D
Acq: 19 May 2025 09:00

Tgt Ion: 95 Resp: 166911
Ion Ratio Lower Upper
95 100
174 85.5 0.0 166.8
176 84.4 0.0 160.8

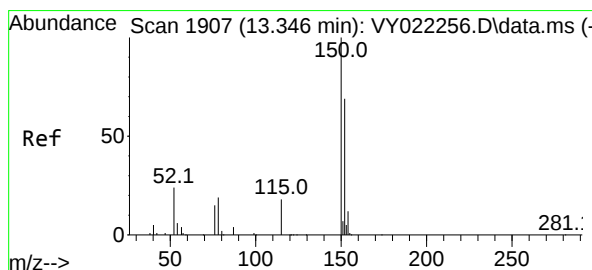
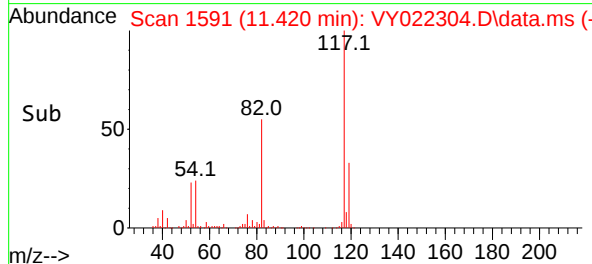
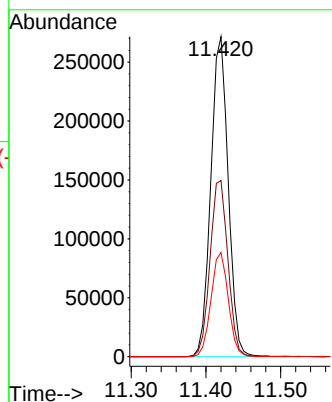
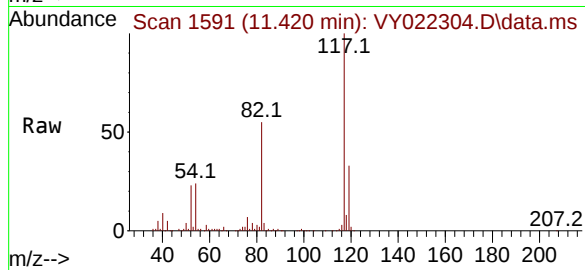




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.420 min Scan# 117
Delta R.T. 0.006 min
Lab File: VY022304.D
Acq: 19 May 2025 09:00

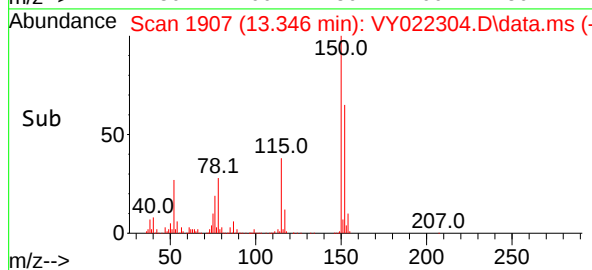
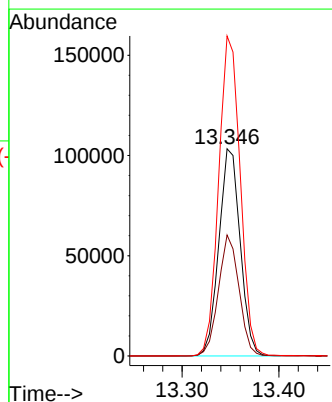
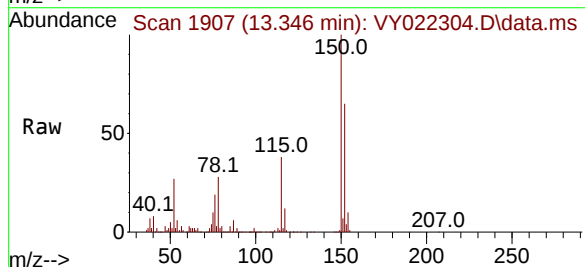
Instrument :
MSVOA_Y
ClientSampleId :
VY0519SBL01

Tgt Ion:117 Resp: 438659
Ion Ratio Lower Upper
117 100
82 55.1 46.6 70.0
119 32.5 25.8 38.6



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1907
Delta R.T. -0.000 min
Lab File: VY022304.D
Acq: 19 May 2025 09:00

Tgt Ion:152 Resp: 158015
Ion Ratio Lower Upper
152 100
115 56.4 29.4 88.2
150 156.2 0.0 353.8



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Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY051925\
Data File : VY022304.D
Acq On : 19 May 2025 09:00
Operator : SY/MD
Sample : VY0519SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0519SBL01

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_Y\methods\82Y051525S.M
Title : SW846 8260

Signal : TIC: VY022304.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.092	49	61	63	rBV6	24533	78484	4.22%	0.900%
2	7.634	959	970	976	rBV	231293	554923	29.87%	6.362%
3	7.707	976	982	997	rVB	439523	986801	53.11%	11.313%
4	8.061	1029	1040	1053	rBV	201353	446034	24.01%	5.113%
5	8.616	1122	1131	1143	rBV	688190	1357124	73.04%	15.558%
6	10.109	1366	1376	1393	rBV	1072255	1857991	100.00%	21.300%
7	11.420	1583	1591	1602	rBV	878188	1452457	78.17%	16.651%
8	12.408	1744	1753	1763	rBV	614660	942357	50.72%	10.803%
9	13.346	1901	1907	1915	rBV	671041	1027778	55.32%	11.782%
10	13.889	1991	1996	2002	rVB	11667	19139	1.03%	0.219%

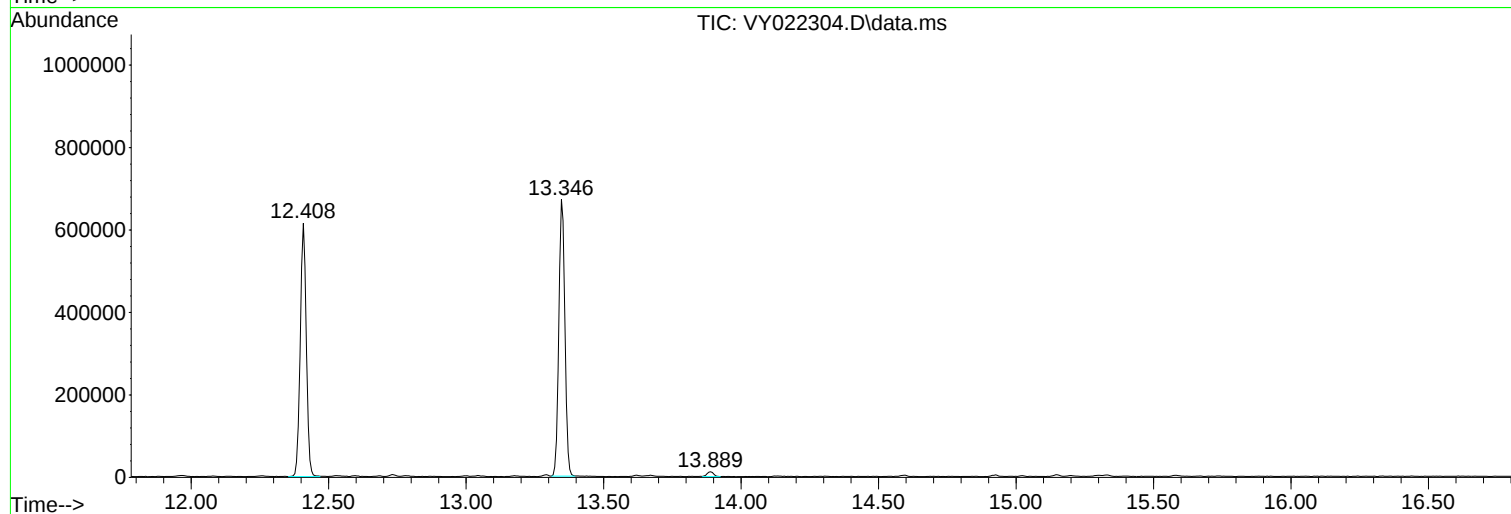
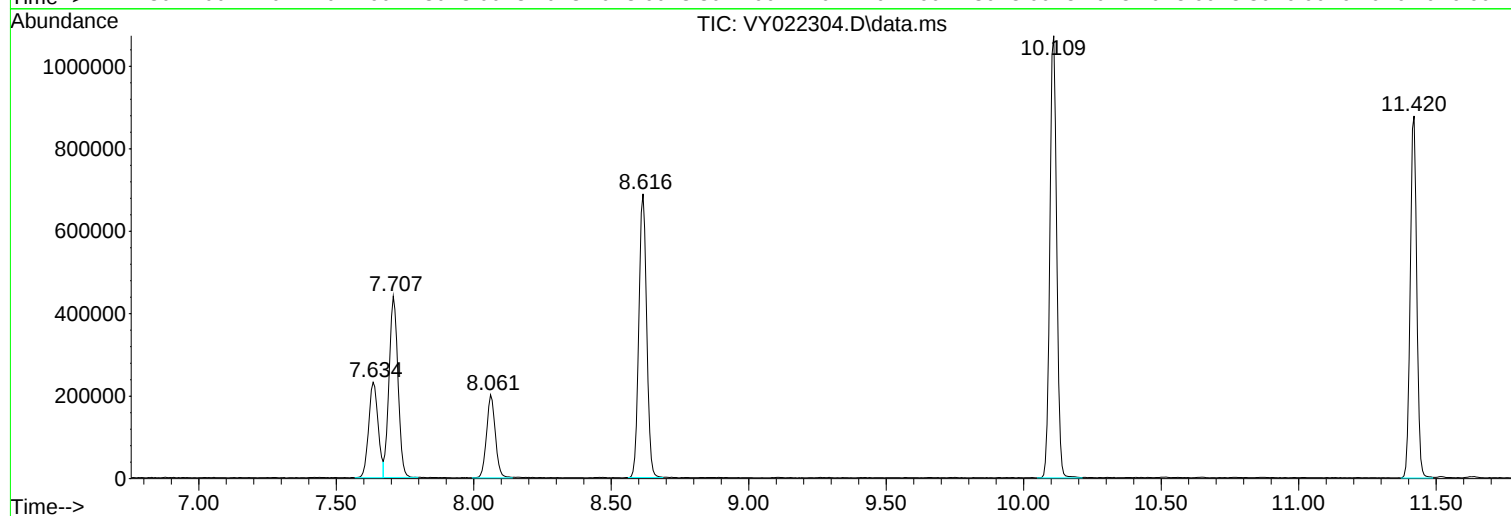
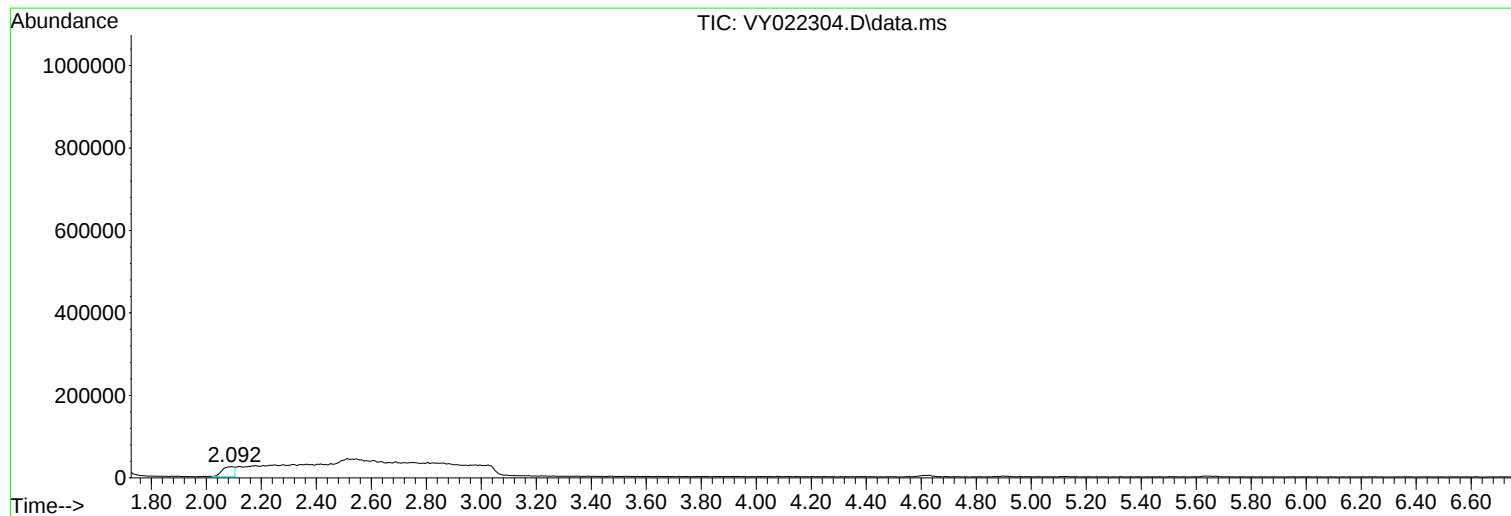
Sum of corrected areas: 8723088

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY051925\
Data File : VY022304.D
Acq On : 19 May 2025 09:00
Operator : SY/MD
Sample : VY0519SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0519SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY051925\
Data File : VY022304.D
Acq On : 19 May 2025 09:00
Operator : SY/MD
Sample : VY0519SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0519SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260

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

No Library Search Compounds Detected

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Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY051925\
Data File : VY022304.D
Acq On : 19 May 2025 09:00
Operator : SY/MD
Sample : VY0519SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0519SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260

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

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052025\
Data File : VY022330.D
Acq On : 20 May 2025 09:48
Operator : SY/MD
Sample : VY0520SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0520SBL01

Quant Time: May 21 01:43:26 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:42:09 2025
Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.707	168	253729	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.615	114	453295	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	355808	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	124571	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	126632	45.666	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	91.340%
35) Dibromofluoromethane	7.634	113	130811	48.349	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	96.700%
50) Toluene-d8	10.109	98	538600	48.607	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	97.220%
62) 4-Bromofluorobenzene	12.407	95	184563	52.549	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	=	105.100%

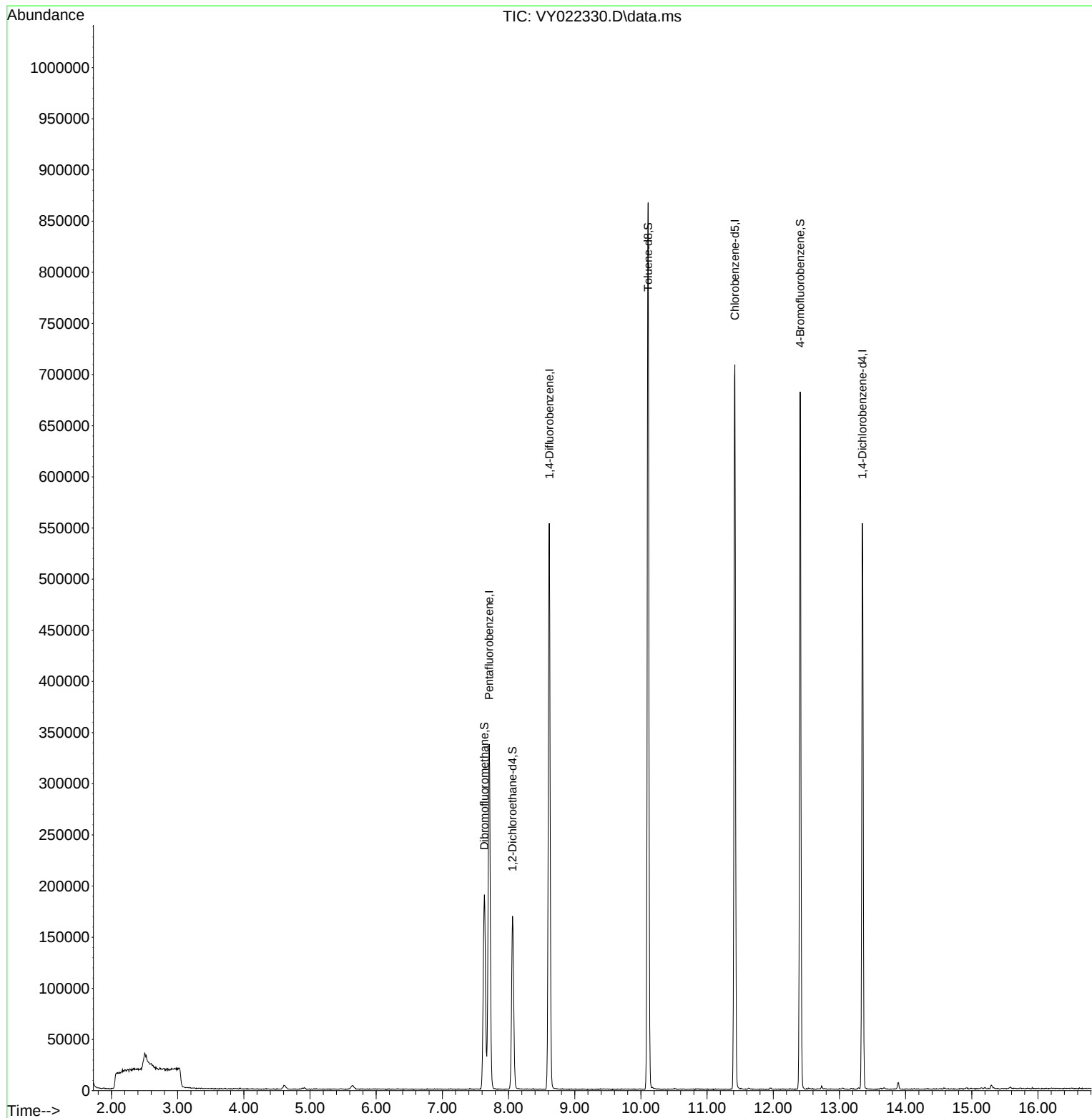
Target Compounds	Qvalue

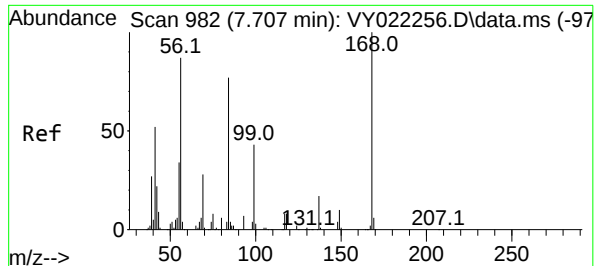
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052025\
Data File : VY022330.D
Acq On : 20 May 2025 09:48
Operator : SY/MD
Sample : VY0520SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0520SBL01

Quant Time: May 21 01:43:26 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:42:09 2025
Response via : Initial Calibration

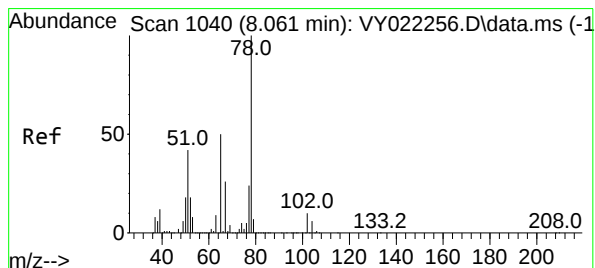
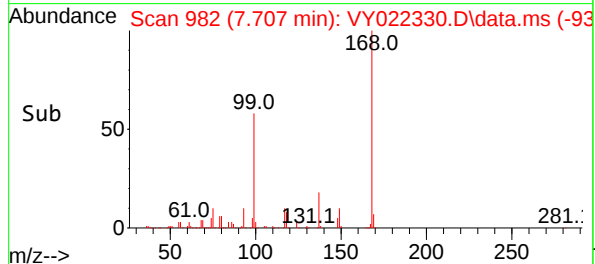
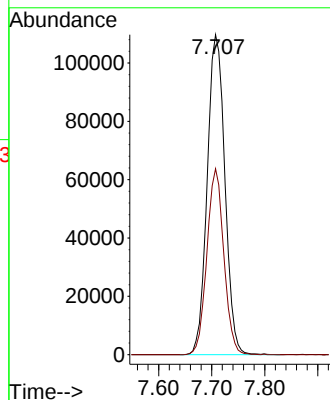
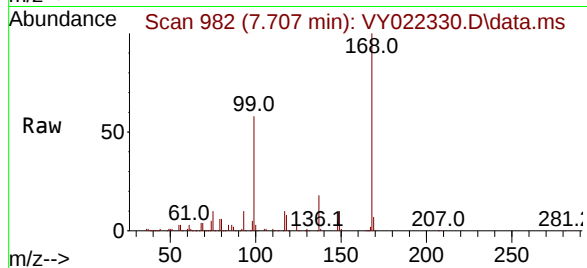




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 91
Delta R.T. 0.000 min
Lab File: VY022330.D
Acq: 20 May 2025 09:48

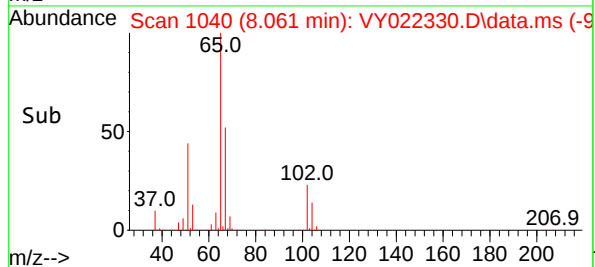
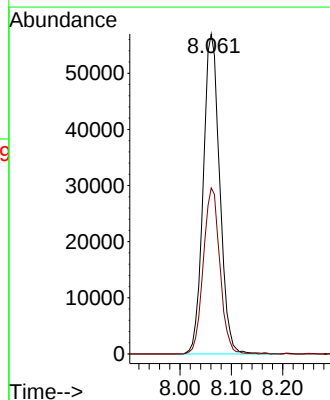
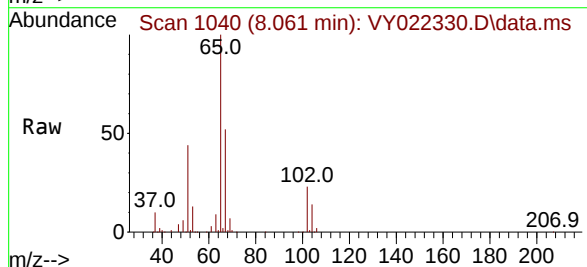
Instrument :
MSVOA_Y
ClientSampleId :
VY0520SBL01

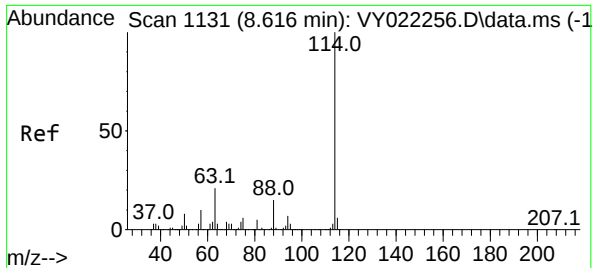
Tgt Ion:168 Resp: 253729
Ion Ratio Lower Upper
168 100
99 58.1 44.2 66.4



#33
1,2-Dichloroethane-d4
Concen: 45.666 ug/l
RT: 8.061 min Scan# 1040
Delta R.T. -0.000 min
Lab File: VY022330.D
Acq: 20 May 2025 09:48

Tgt Ion: 65 Resp: 126632
Ion Ratio Lower Upper
65 100
67 52.1 0.0 104.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.615 min Scan# 1131

Delta R.T. -0.000 min

Lab File: VY022330.D

Acq: 20 May 2025 09:48

Instrument :

MSVOA_Y

ClientSampleId :

VY0520SBL01

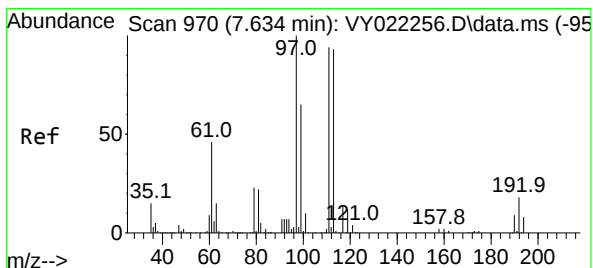
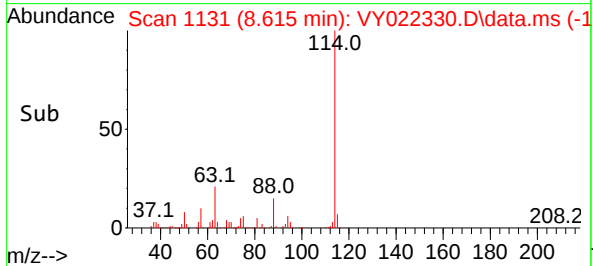
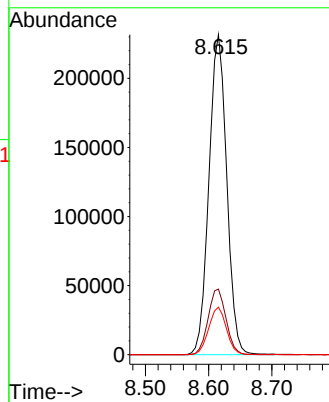
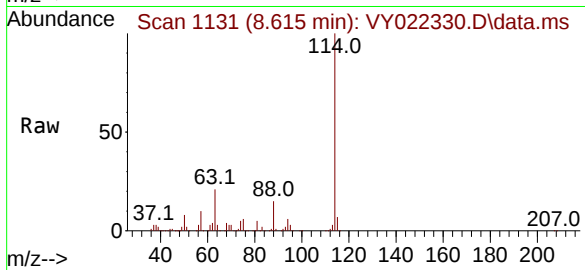
Tgt Ion:114 Resp: 453295

Ion Ratio Lower Upper

114 100

63 20.5 0.0 41.0

88 14.9 0.0 29.4



#35

Dibromofluoromethane

Concen: 48.349 ug/l

RT: 7.634 min Scan# 970

Delta R.T. -0.000 min

Lab File: VY022330.D

Acq: 20 May 2025 09:48

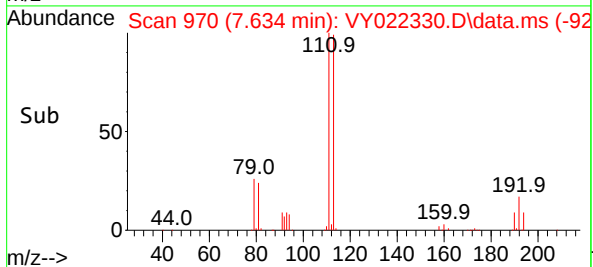
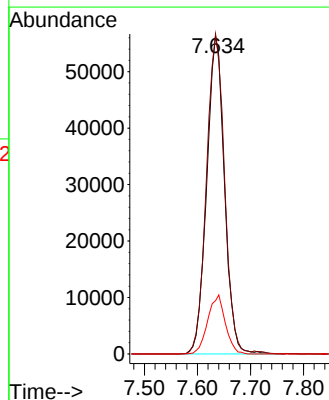
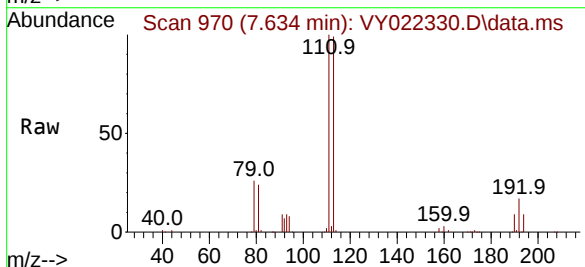
Tgt Ion:113 Resp: 130811

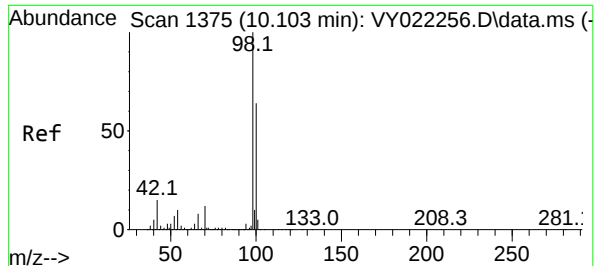
Ion Ratio Lower Upper

113 100

111 102.3 82.6 123.8

192 18.4 15.2 22.8





#50

Toluene-d8

Concen: 48.607 ug/l

RT: 10.109 min Scan# 1375

Delta R.T. 0.006 min

Lab File: VY022330.D

Acq: 20 May 2025 09:48

Instrument :

MSVOA_Y

ClientSampleId :

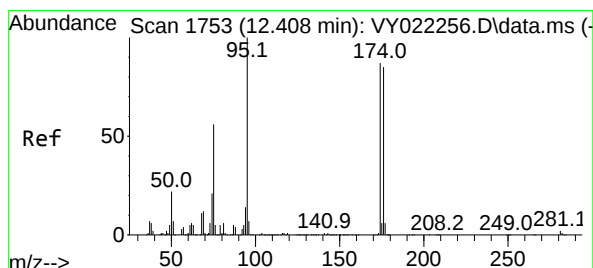
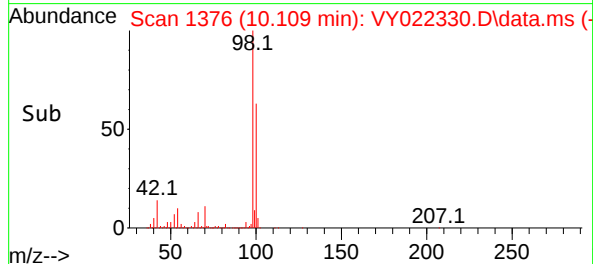
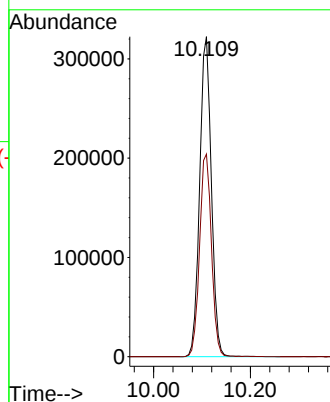
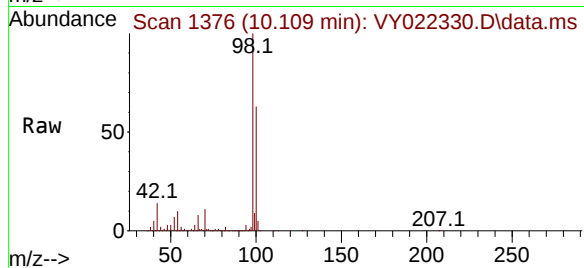
VY0520SBL01

Tgt Ion: 98 Resp: 538600

Ion Ratio Lower Upper

98 100

100 64.5 51.8 77.8



#62

4-Bromofluorobenzene

Concen: 52.549 ug/l

RT: 12.407 min Scan# 1753

Delta R.T. -0.000 min

Lab File: VY022330.D

Acq: 20 May 2025 09:48

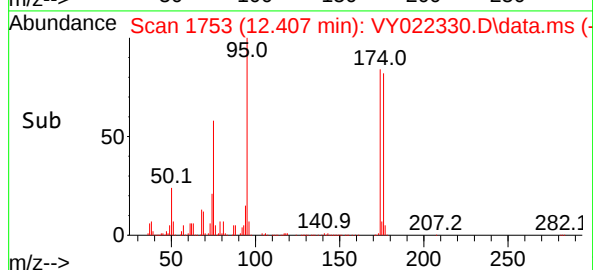
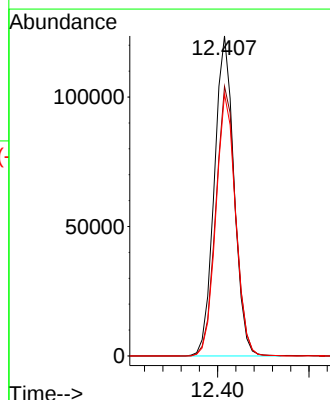
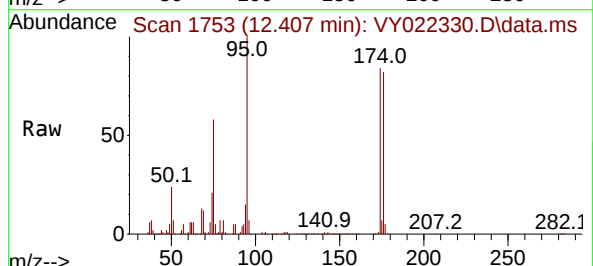
Tgt Ion: 95 Resp: 184563

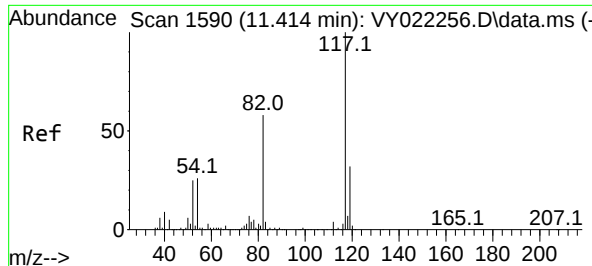
Ion Ratio Lower Upper

95 100

174 85.0 0.0 166.8

176 81.9 0.0 160.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.420 min Scan# 11

Delta R.T. 0.006 min

Lab File: VY022330.D

Acq: 20 May 2025 09:48

Instrument :

MSVOA_Y

ClientSampleId :

VY0520SBL01

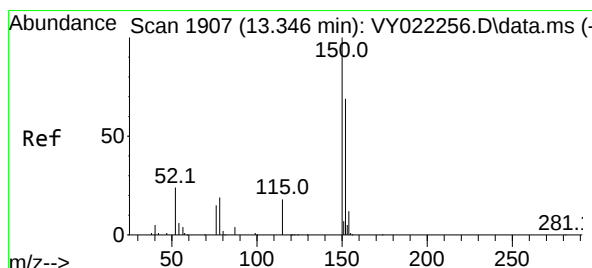
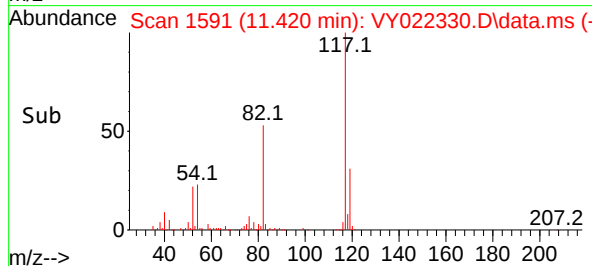
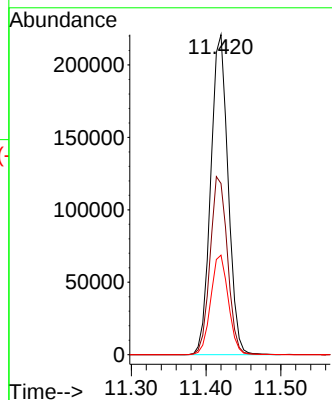
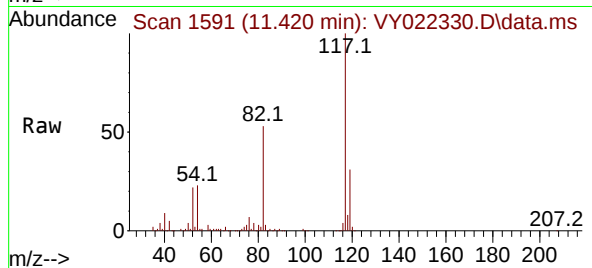
Tgt Ion:117 Resp: 355808

Ion Ratio Lower Upper

117 100

82 53.5 46.6 70.0

119 31.1 25.8 38.6



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.346 min Scan# 1907

Delta R.T. -0.000 min

Lab File: VY022330.D

Acq: 20 May 2025 09:48

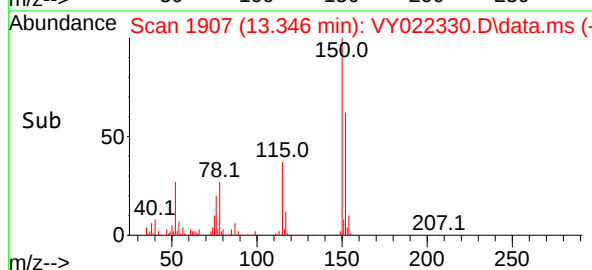
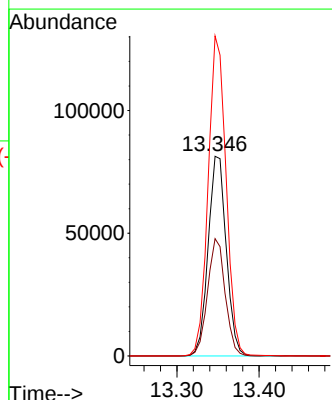
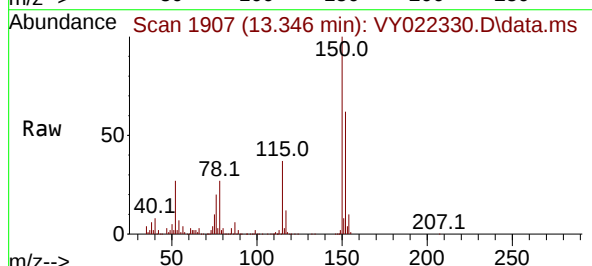
Tgt Ion:152 Resp: 124571

Ion Ratio Lower Upper

152 100

115 57.1 29.4 88.2

150 158.5 0.0 353.8



5

A

B

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Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052025\
Data File : VY022330.D
Acq On : 20 May 2025 09:48
Operator : SY/MD
Sample : VY0520SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0520SBL01

Integration Parameters: RTEINT.P

Integrator: RTE

Smoothing : ON

Sampling : 1

Start Thrs: 0.2

Stop Thrs : 0

Filtering: 5

Min Area: 3 % of largest Peak

Max Peaks: 100

Peak Location: TOP

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

Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M

Title : SW846 8260

Signal : TIC: VY022330.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.080	50	59	60	rBV2	15193	34214	2.32%	0.473%
2	2.501	122	128	131	rBV6	13645	29809	2.02%	0.412%
3	7.634	961	970	976	rBV2	190007	456378	30.96%	6.304%
4	7.707	976	982	994	rVB	336910	762617	51.73%	10.535%
5	8.061	1031	1040	1053	rBV	169211	372273	25.25%	5.143%
6	8.615	1122	1131	1144	rBV	553402	1081691	73.37%	14.943%
7	10.109	1368	1376	1386	rBV	866837	1474301	100.00%	20.366%
8	11.420	1582	1591	1603	rBV	708203	1166913	79.15%	16.120%
9	12.407	1745	1753	1765	rBV	681791	1036262	70.29%	14.315%
10	13.346	1901	1907	1915	rBV	552904	824560	55.93%	11.390%

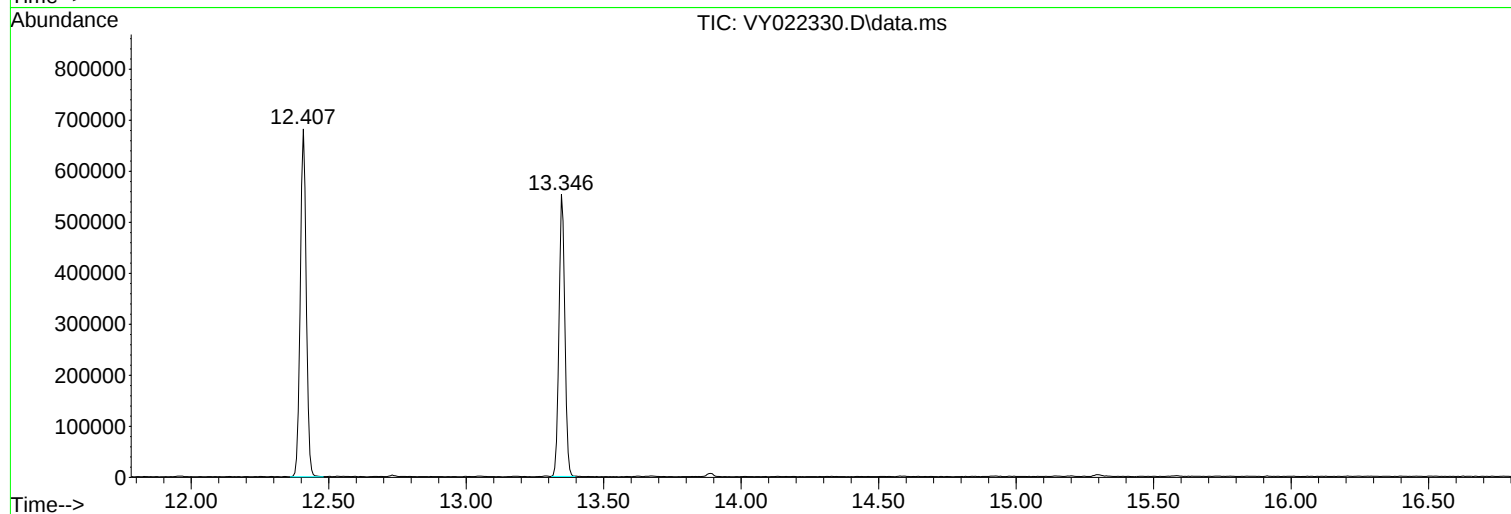
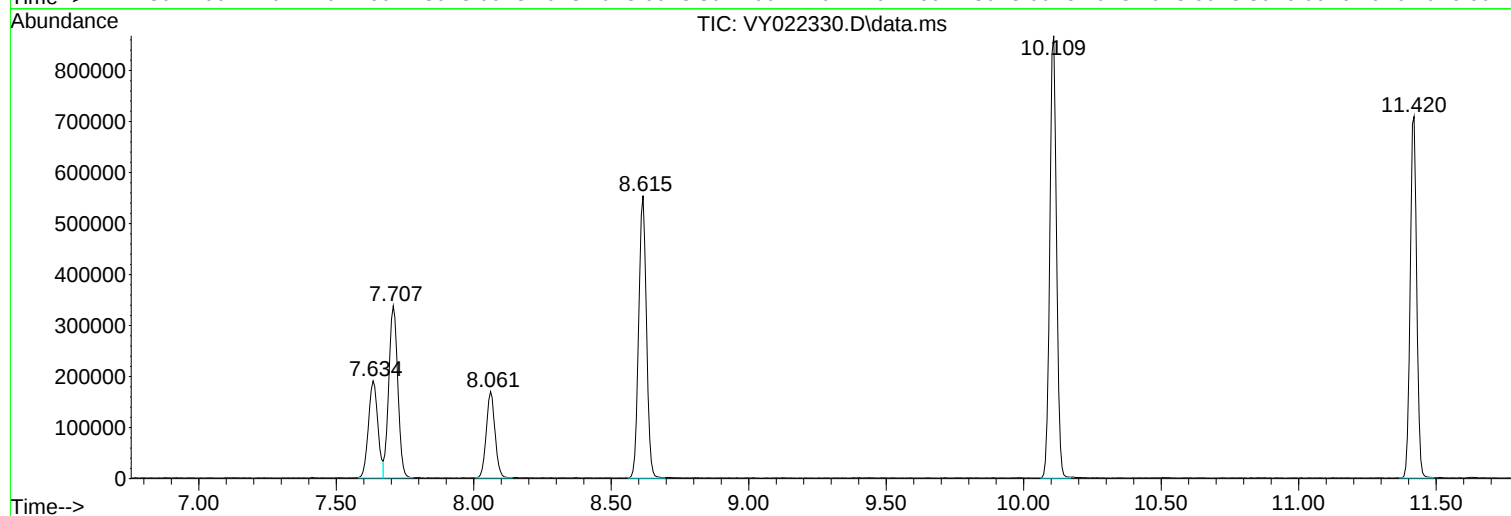
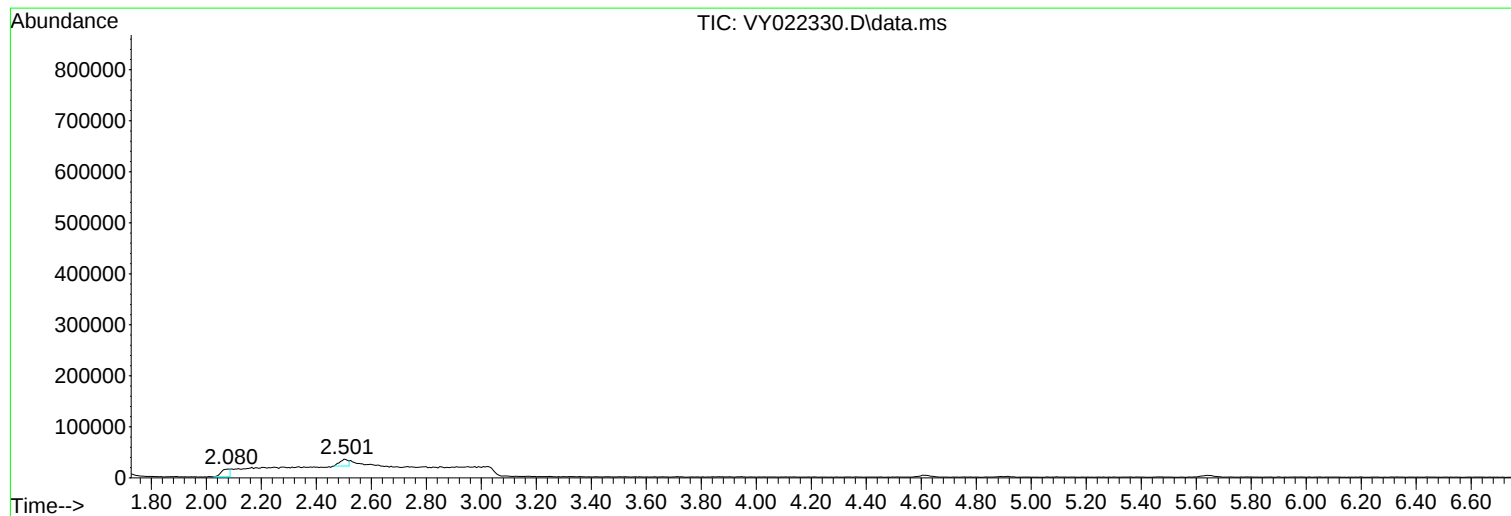
Sum of corrected areas: 7239018

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052025\
Data File : VY022330.D
Acq On : 20 May 2025 09:48
Operator : SY/MD
Sample : VY0520SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0520SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052025\
Data File : VY022330.D
Acq On : 20 May 2025 09:48
Operator : SY/MD
Sample : VY0520SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0520SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260

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

No Library Search Compounds Detected

5

A

B

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Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052025\
Data File : VY022330.D
Acq On : 20 May 2025 09:48
Operator : SY/MD
Sample : VY0520SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0520SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260

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

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052125\
Data File : VY022355.D
Acq On : 21 May 2025 10:05
Operator : SY/MD
Sample : VY0521SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0521SBL01

Quant Time: May 22 00:04:58 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:42:09 2025
Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.713	168	261806	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.615	114	457379	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	349876	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.352	152	119412	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.067	65	121999	42.638	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	85.280%
35) Dibromofluoromethane	7.634	113	131294	48.095	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	96.180%
50) Toluene-d8	10.109	98	544244	48.678	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	97.360%
62) 4-Bromofluorobenzene	12.407	95	178232	50.294	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	=	100.580%

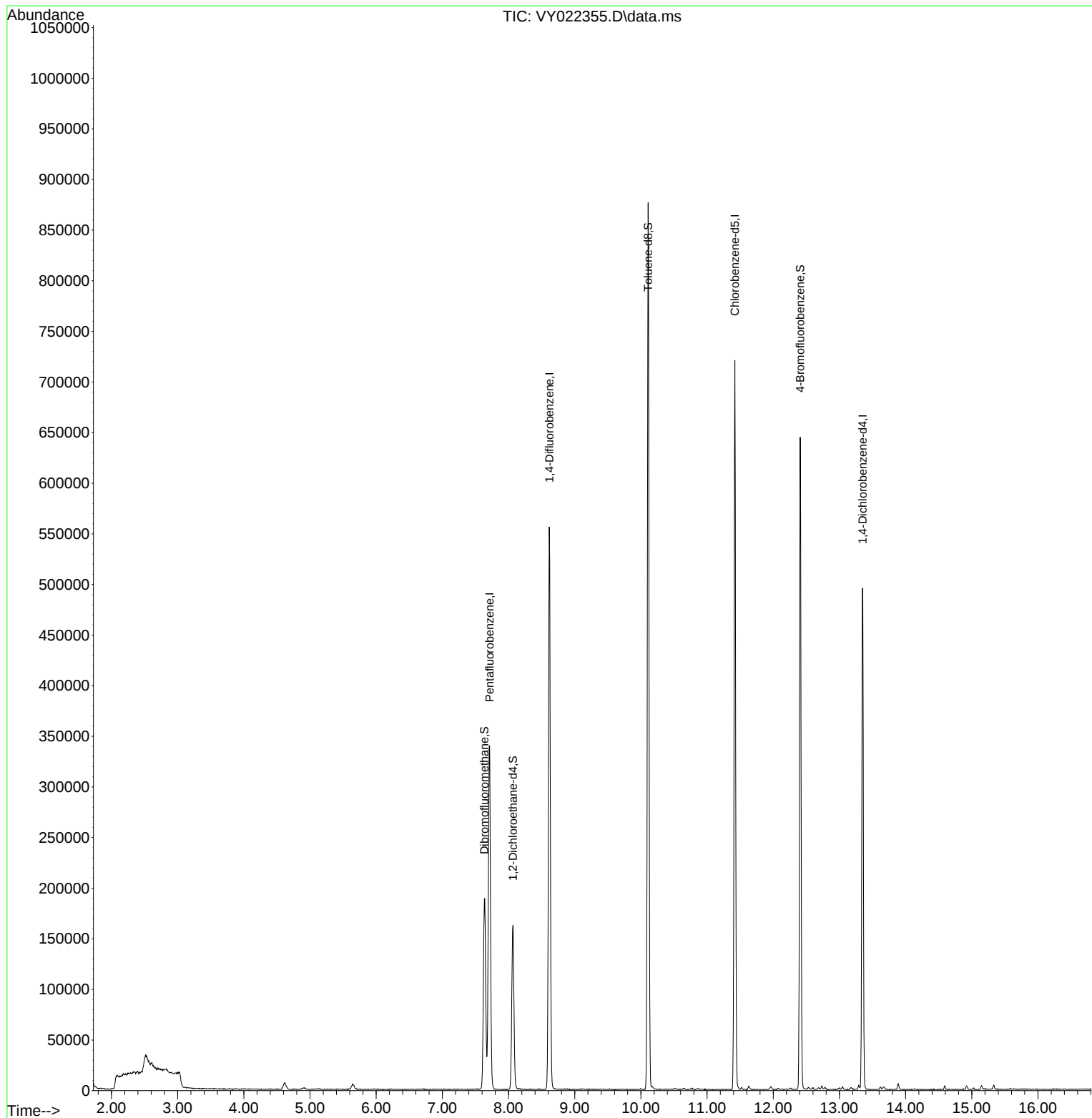
Target Compounds	Qvalue

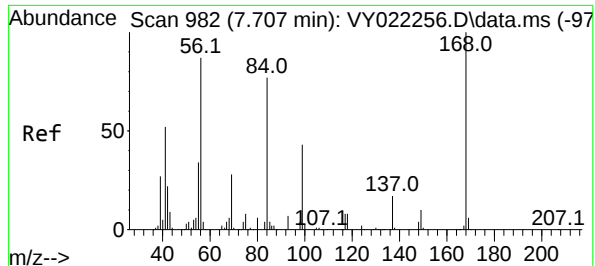
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052125\
Data File : VY022355.D
Acq On : 21 May 2025 10:05
Operator : SY/MD
Sample : VY0521SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0521SBL01

Quant Time: May 22 00:04:58 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:42:09 2025
Response via : Initial Calibration

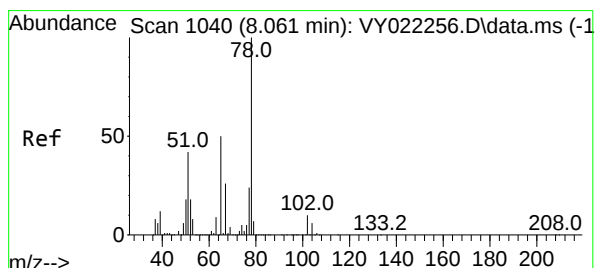
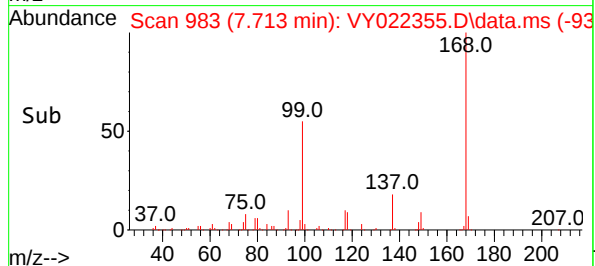
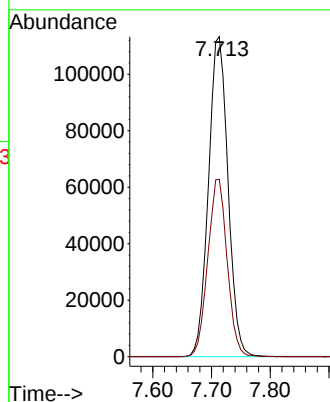
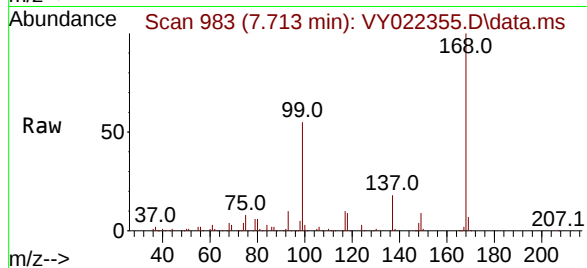




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 982
Delta R.T. 0.006 min
Lab File: VY022355.D
Acq: 21 May 2025 10:05

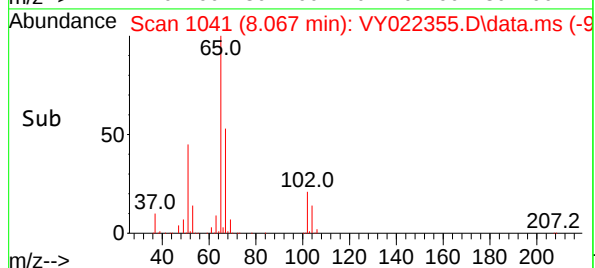
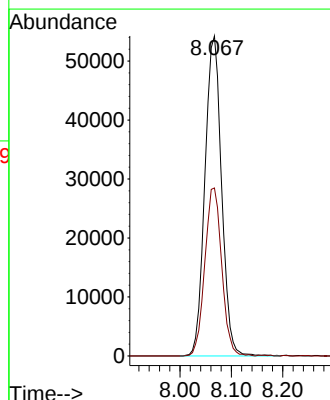
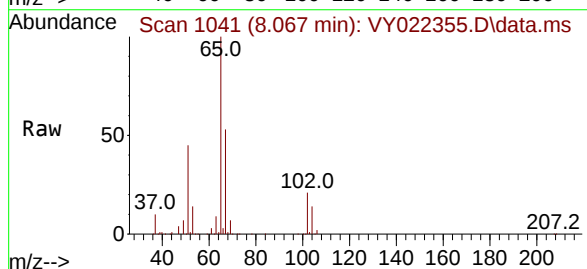
Instrument :
MSVOA_Y
ClientSampleId :
VY0521SBL01

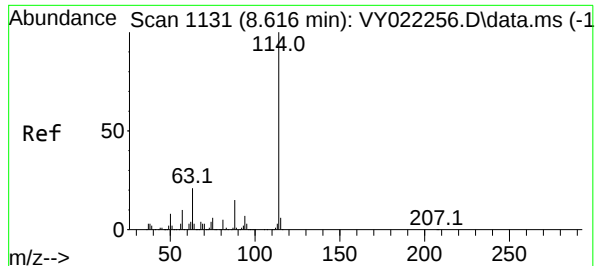
Tgt Ion:168 Resp: 261806
Ion Ratio Lower Upper
168 100
99 55.5 44.2 66.4



#33
1,2-Dichloroethane-d4
Concen: 42.638 ug/l
RT: 8.067 min Scan# 1041
Delta R.T. 0.006 min
Lab File: VY022355.D
Acq: 21 May 2025 10:05

Tgt Ion: 65 Resp: 121999
Ion Ratio Lower Upper
65 100
67 53.3 0.0 104.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.615 min Scan# 1131

Delta R.T. -0.000 min

Lab File: VY022355.D

Acq: 21 May 2025 10:05

Instrument :

MSVOA_Y

ClientSampleId :

VY0521SBL01

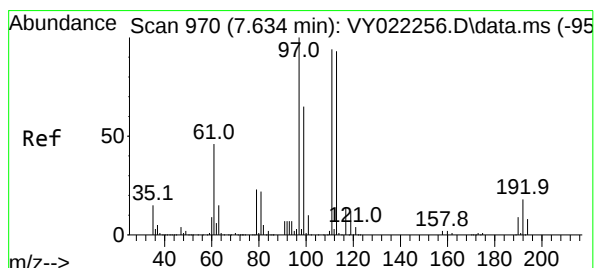
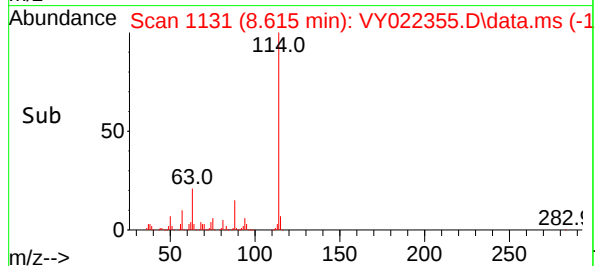
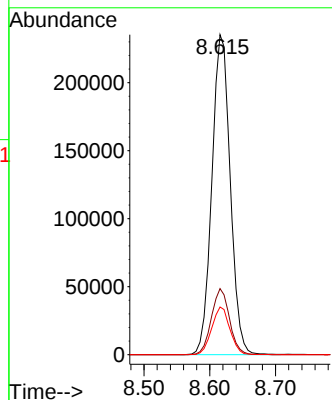
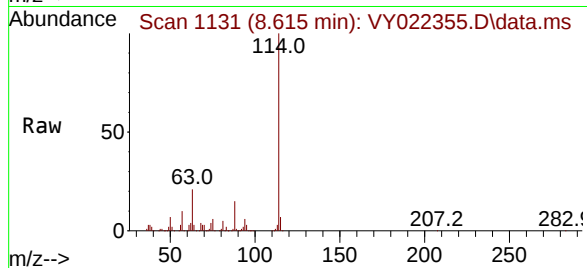
Tgt Ion:114 Resp: 457379

Ion Ratio Lower Upper

114 100

63 20.7 0.0 41.0

88 14.9 0.0 29.4



#35

Dibromofluoromethane

Concen: 48.095 ug/l

RT: 7.634 min Scan# 970

Delta R.T. -0.000 min

Lab File: VY022355.D

Acq: 21 May 2025 10:05

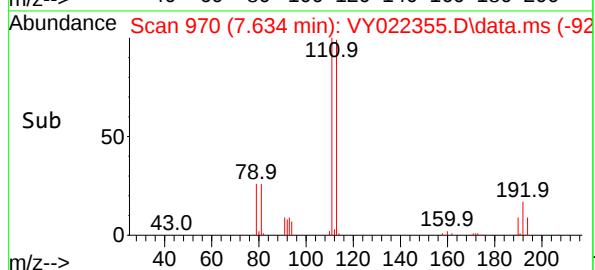
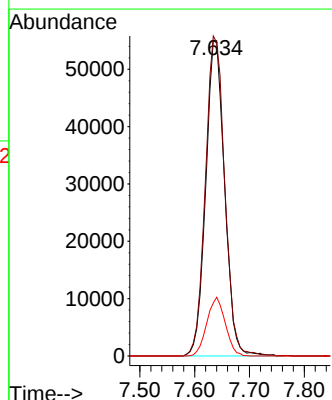
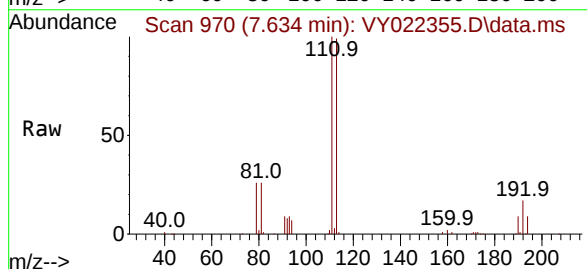
Tgt Ion:113 Resp: 131294

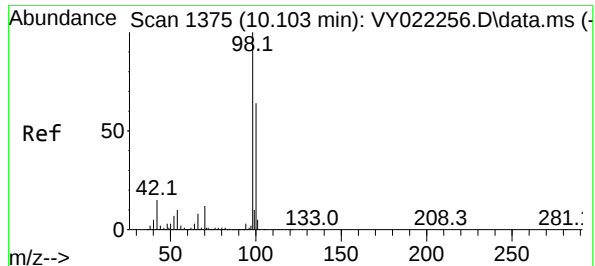
Ion Ratio Lower Upper

113 100

111 104.1 82.6 123.8

192 18.2 15.2 22.8





#50

Toluene-d8

Concen: 48.678 ug/l

RT: 10.109 min Scan# 1

Delta R.T. 0.006 min

Lab File: VY022355.D

Acq: 21 May 2025 10:05

Instrument :

MSVOA_Y

ClientSampleId :

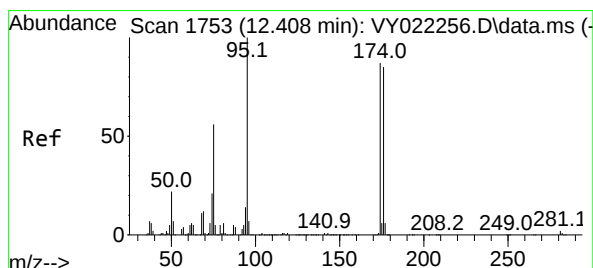
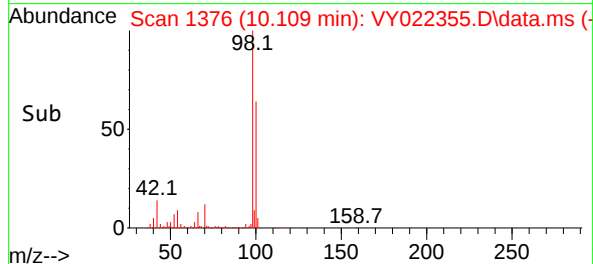
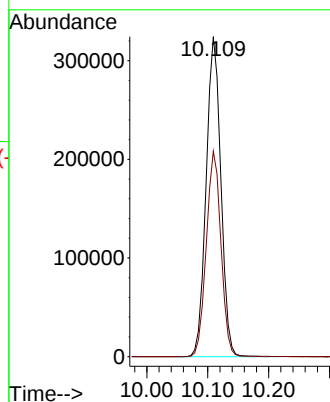
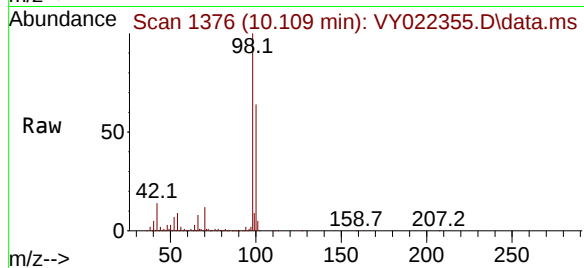
VY0521SBL01

Tgt Ion: 98 Resp: 544244

Ion Ratio Lower Upper

98 100

100 64.0 51.8 77.8



#62

4-Bromofluorobenzene

Concen: 50.294 ug/l

RT: 12.407 min Scan# 1753

Delta R.T. -0.000 min

Lab File: VY022355.D

Acq: 21 May 2025 10:05

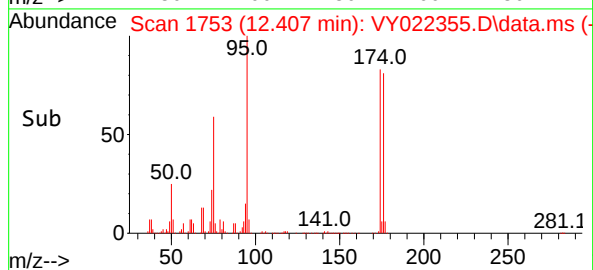
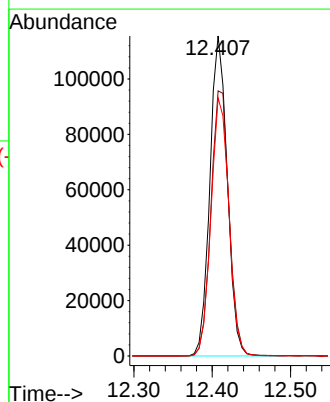
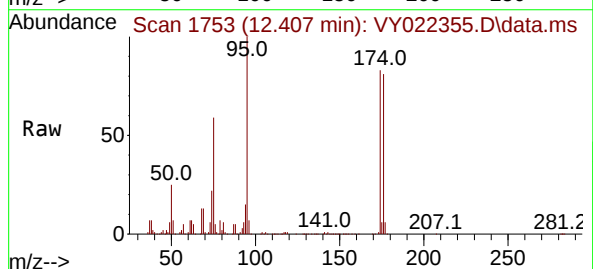
Tgt Ion: 95 Resp: 178232

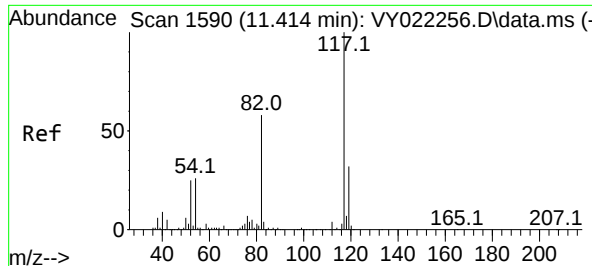
Ion Ratio Lower Upper

95 100

174 86.3 0.0 166.8

176 83.0 0.0 160.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.420 min Scan# 11

Delta R.T. 0.006 min

Lab File: VY022355.D

Acq: 21 May 2025 10:05

Instrument :

MSVOA_Y

ClientSampleId :

VY0521SBL01

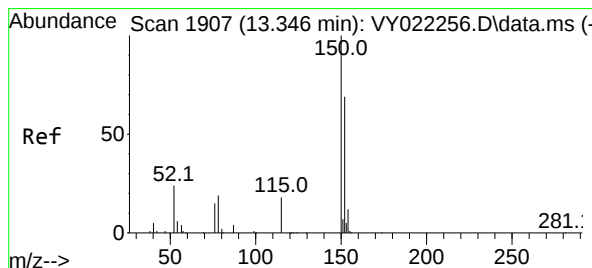
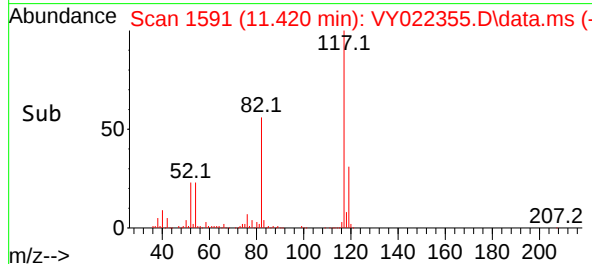
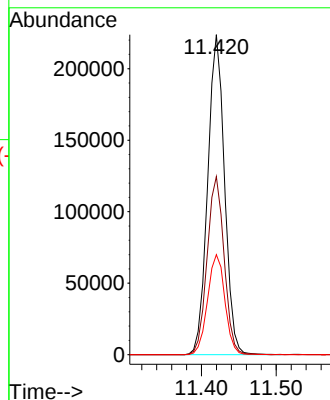
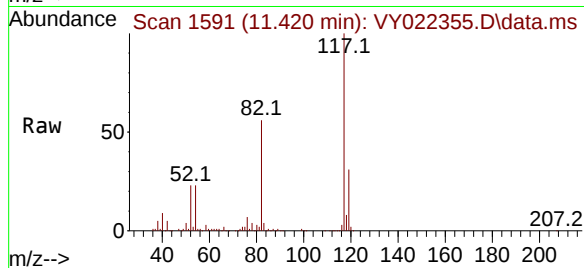
Tgt Ion:117 Resp: 349876

Ion Ratio Lower Upper

117 100

82 55.7 46.6 70.0

119 31.3 25.8 38.6



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.352 min Scan# 1908

Delta R.T. 0.006 min

Lab File: VY022355.D

Acq: 21 May 2025 10:05

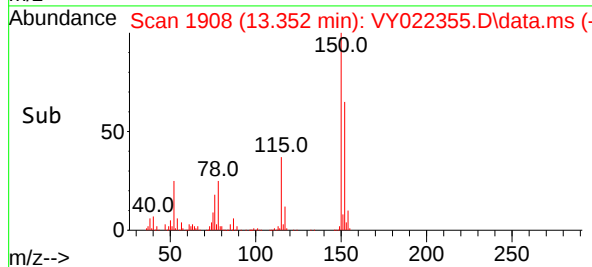
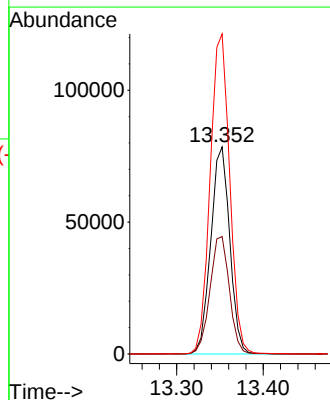
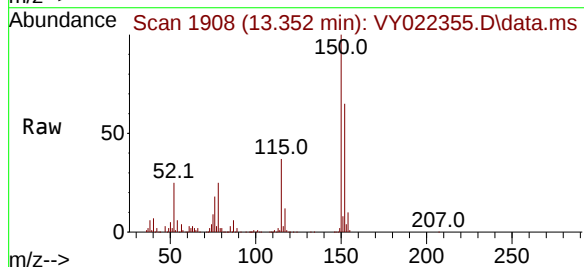
Tgt Ion:152 Resp: 119412

Ion Ratio Lower Upper

152 100

115 58.2 29.4 88.2

150 158.9 0.0 353.8



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Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052125\
Data File : VY022355.D
Acq On : 21 May 2025 10:05
Operator : SY/MD
Sample : VY0521SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0521SBL01

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_Y\methods\82Y051525S.M

Title : SW846 8260

Signal : TIC: VY022355.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.086	46	60	65	rBV5	13394	50513	3.43%	0.700%
2	2.513	124	130	132	rBV6	12792	25580	1.74%	0.355%
3	4.616	467	475	487	rBV4	6724	20837	1.41%	0.289%
4	7.640	958	971	976	rBV	188406	451846	30.66%	6.265%
5	7.707	976	982	994	rVB	339085	787937	53.46%	10.925%
6	8.067	1031	1041	1053	rBV	162148	365317	24.79%	5.065%
7	8.615	1120	1131	1144	rBV	555808	1082915	73.48%	15.015%
8	10.109	1369	1376	1384	rBV	875576	1473847	100.00%	20.435%
9	11.420	1583	1591	1604	rBV	720571	1154348	78.32%	16.005%
10	12.407	1745	1753	1763	rBV	644353	1005474	68.22%	13.941%
11	13.346	1901	1907	1919	rVB	495055	793633	53.85%	11.004%

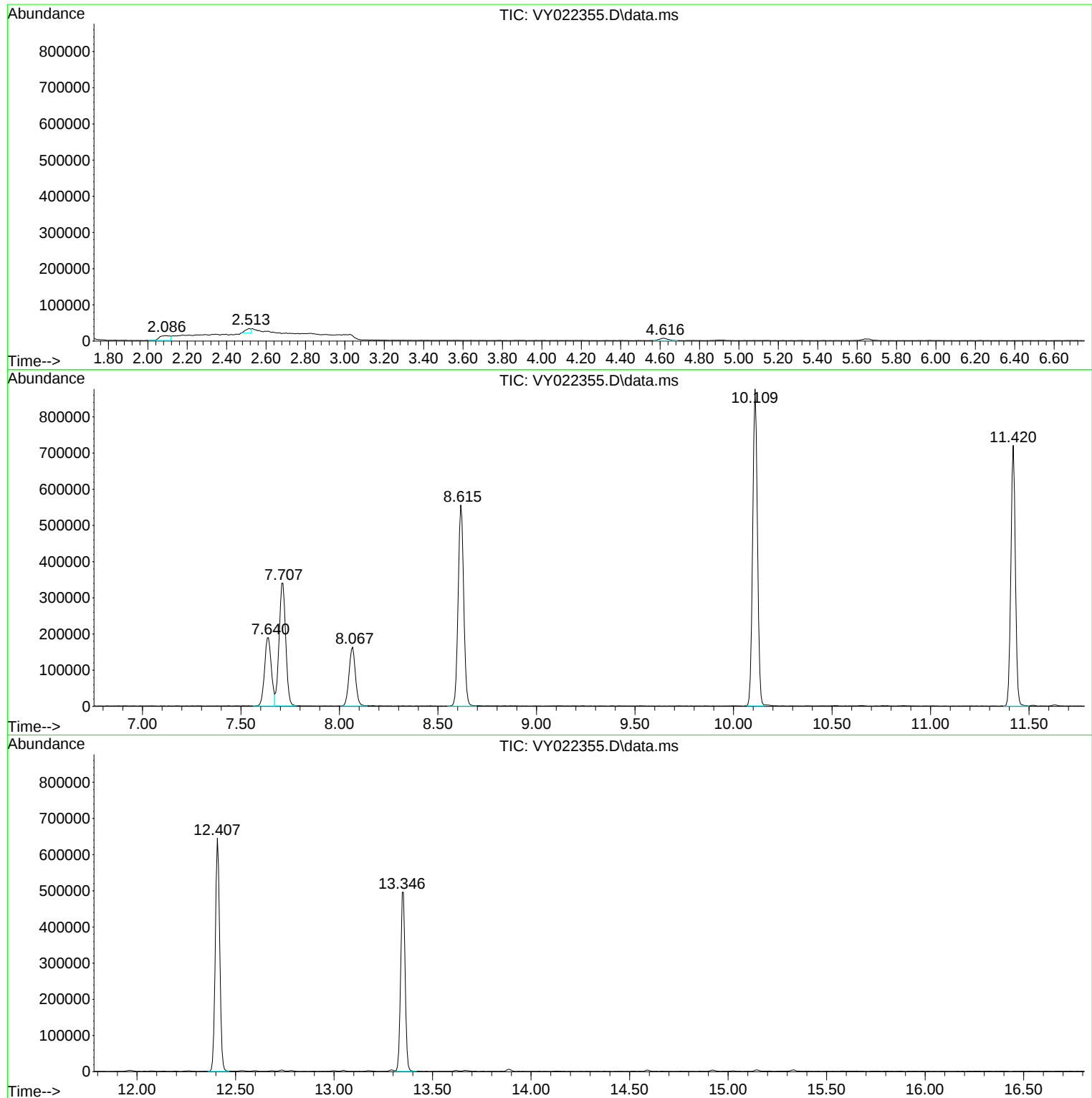
Sum of corrected areas: 7212247

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052125\
Data File : VY022355.D
Acq On : 21 May 2025 10:05
Operator : SY/MD
Sample : VY0521SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0521SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052125\
Data File : VY022355.D
Acq On : 21 May 2025 10:05
Operator : SY/MD
Sample : VY0521SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0521SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260

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

No Library Search Compounds Detected

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Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052125\
Data File : VY022355.D
Acq On : 21 May 2025 10:05
Operator : SY/MD
Sample : VY0521SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0521SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260

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

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

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Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY051925\
 Data File : VY022305.D
 Acq On : 19 May 2025 09:36
 Operator : SY/MD
 Sample : VY0519SBS01
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VY0519SBS01

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 05/21/2025
 Supervised By :Semsettin Yesilyurt 05/21/2025

Quant Time: May 20 01:08:39 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
 Quant Title : SW846 8260
 QLast Update : Fri May 16 01:42:09 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.707	168	200360	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	338060	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	283142	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.347	152	133674	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	112366	51.315	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 102.620%			
35) Dibromofluoromethane	7.634	113	103010	51.052	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 102.100%			
50) Toluene-d8	10.109	98	422064	51.074	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 102.140%			
62) 4-Bromofluorobenzene	12.408	95	126905	48.449	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 96.900%			
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.867	85	44358	21.217	ug/l	96
3) Chloromethane	2.068	50	116897	26.580	ug/l	97
4) Vinyl Chloride	2.202	62	131565	26.776	ug/l	96
5) Bromomethane	2.592	94	128052	32.014	ug/l	95
6) Chloroethane	2.733	64	88707	29.020	ug/l	99
7) Trichlorofluoromethane	3.050	101	124809	25.089	ug/l	99
8) Diethyl Ether	3.458	74	24485	20.509	ug/l	100
9) 1,1,2-Trichlorotrifluo...	3.818	101	45930	21.267	ug/l	99
10) Methyl Iodide	4.007	142	47593	19.040	ug/l	98
11) Tert butyl alcohol	4.885	59	16264	97.263	ug/l #	100
12) 1,1-Dichloroethene	3.793	96	44662	20.839	ug/l	95
13) Acrolein	3.659	56	19980	81.733	ug/l	99
14) Allyl chloride	4.379	41	72879	19.394	ug/l	97
15) Acrylonitrile	5.061	53	49498	100.621	ug/l	99
16) Acetone	3.879	43	36473	88.830	ug/l	96
17) Carbon Disulfide	4.104	76	145351	20.798	ug/l	100
18) Methyl Acetate	4.397	43	25765	19.902	ug/l	94
19) Methyl tert-butyl Ether	5.122	73	121169	20.504	ug/l	98
20) Methylene Chloride	4.616	84	49524	18.666	ug/l	97
21) trans-1,2-Dichloroethene	5.110	96	48269	20.405	ug/l	96
22) Diisopropyl ether	6.025	45	155980	19.655	ug/l	98
23) Vinyl Acetate	5.964	43	462181	96.402	ug/l	99
24) 1,1-Dichloroethane	5.915	63	89842	20.264	ug/l	98
25) 2-Butanone	6.903	43	62462	90.946	ug/l	97
26) 2,2-Dichloropropane	6.884	77	80218	20.342	ug/l	100
27) cis-1,2-Dichloroethene	6.890	96	56075	20.541	ug/l	98
28) Bromochloromethane	7.250	49	37383	19.768	ug/l	98
29) Tetrahydrofuran	7.268	42	43669	98.831	ug/l	94
30) Chloroform	7.427	83	89033	20.936	ug/l	98
31) Cyclohexane	7.707	56	90210	20.365	ug/l	99
32) 1,1,1-Trichloroethane	7.616	97	82841	21.233	ug/l	98
36) 1,1-Dichloropropene	7.835	75	67180	20.214	ug/l	98
37) Ethyl Acetate	6.988	43	31330	19.593	ug/l	99
38) Carbon Tetrachloride	7.817	117	71104	20.669	ug/l	96
39) Methylcyclohexane	9.109	83	92475	20.711	ug/l	97
40) Benzene	8.085	78	198734	20.171	ug/l	99

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Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY051925\
 Data File : VY022305.D
 Acq On : 19 May 2025 09:36
 Operator : SY/MD
 Sample : VY0519SBS01
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 4 Sample Multiplier: 1

Instrument :

MSVOA_Y

ClientSampleId :

VY0519SBS01

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 05/21/2025

Supervised By :Semsettin Yesilyurt 05/21/2025

Quant Time: May 20 01:08:39 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M

Quant Title : SW846 8260

QLast Update : Fri May 16 01:42:09 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.226	41	16423	15.483	ug/l #	81
42) 1,2-Dichloroethane	8.158	62	54124	20.314	ug/l	100
43) Isopropyl Acetate	8.201	43	67210	19.272	ug/l	99
44) Trichloroethene	8.866	130	49995	20.408	ug/l	95
45) 1,2-Dichloropropane	9.146	63	47105	19.831	ug/l	100
46) Dibromomethane	9.231	93	26057	20.339	ug/l	98
47) Bromodichloromethane	9.427	83	67475	20.302	ug/l	98
48) Methyl methacrylate	9.225	41	31170	19.112	ug/l	96
49) 1,4-Dioxane	9.238	88	5453	376.764	ug/l	86
51) 4-Methyl-2-Pentanone	10.000	43	163969	95.823	ug/l	99
52) Toluene	10.170	92	124296	19.923	ug/l	100
53) t-1,3-Dichloropropene	10.396	75	62956	19.409	ug/l	96
54) cis-1,3-Dichloropropene	9.859	75	74524	20.054	ug/l	97
55) 1,1,2-Trichloroethane	10.573	97	33564	20.459	ug/l	98
56) Ethyl methacrylate	10.439	69	49183	19.246	ug/l	97
57) 1,3-Dichloropropane	10.719	76	58922	20.214	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.713	63	100509	87.625	ug/l	98
59) 2-Hexanone	10.762	43	106193	92.558	ug/l	97
60) Dibromochloromethane	10.914	129	43173	20.275	ug/l	99
61) 1,2-Dibromoethane	11.018	107	31396	20.533	ug/l	99
64) Tetrachloroethene	10.652	164	53401	20.405	ug/l	98
65) Chlorobenzene	11.444	112	129758	20.313	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.518	131	43074	19.614	ug/l	98
67) Ethyl Benzene	11.524	91	237230	19.830	ug/l	99
68) m/p-Xylenes	11.633	106	180140	39.960	ug/l	96
69) o-Xylene	11.957	106	83514	19.581	ug/l	99
70) Styrene	11.969	104	140922	19.587	ug/l	98
71) Bromoform	12.133	173	23328	19.680	ug/l #	98
73) Isopropylbenzene	12.255	105	220761	19.935	ug/l	100
74) N-amyl acetate	12.072	43	58768	18.555	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.505	83	34721	20.387	ug/l	98
76) 1,2,3-Trichloropropane	12.560	75	23415m	17.290	ug/l	
77) Bromobenzene	12.536	156	46286	19.569	ug/l	99
78) n-propylbenzene	12.597	91	268280	20.084	ug/l	100
79) 2-Chlorotoluene	12.682	91	143678	19.573	ug/l	97
80) 1,3,5-Trimethylbenzene	12.737	105	174835	19.557	ug/l	99
81) trans-1,4-Dichloro-2-b...	12.304	75	13091	19.582	ug/l	97
82) 4-Chlorotoluene	12.780	91	144394	19.124	ug/l	99
83) tert-Butylbenzene	12.999	119	157481	19.820	ug/l	100
84) 1,2,4-Trimethylbenzene	13.042	105	174561	19.671	ug/l	100
85) sec-Butylbenzene	13.176	105	235349	19.954	ug/l	99
86) p-Isopropyltoluene	13.292	119	191316	19.286	ug/l	99
87) 1,3-Dichlorobenzene	13.292	146	92027	19.059	ug/l	100
88) 1,4-Dichlorobenzene	13.371	146	91240	19.645	ug/l	99
89) n-Butylbenzene	13.621	91	186063	19.826	ug/l	99
90) Hexachloroethane	13.883	117	39735	19.843	ug/l	98
91) 1,2-Dichlorobenzene	13.664	146	79761	19.666	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	14.279	75	5501	20.030	ug/l	96
93) 1,2,4-Trichlorobenzene	14.919	180	44423	18.962	ug/l	99
94) Hexachlorobutadiene	15.023	225	25456	19.484	ug/l	98
95) Naphthalene	15.145	128	85379	19.205	ug/l	100
96) 1,2,3-Trichlorobenzene	15.328	180	38129	19.185	ug/l	99

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Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY051925\
Data File : VY022305.D
Acq On : 19 May 2025 09:36
Operator : SY/MD
Sample : VY0519SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0519SBS01

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 05/21/2025
Supervised By :Semsettin Yesilyurt 05/21/2025

Quant Time: May 20 01:08:39 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:42:09 2025
Response via : Initial Calibration

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

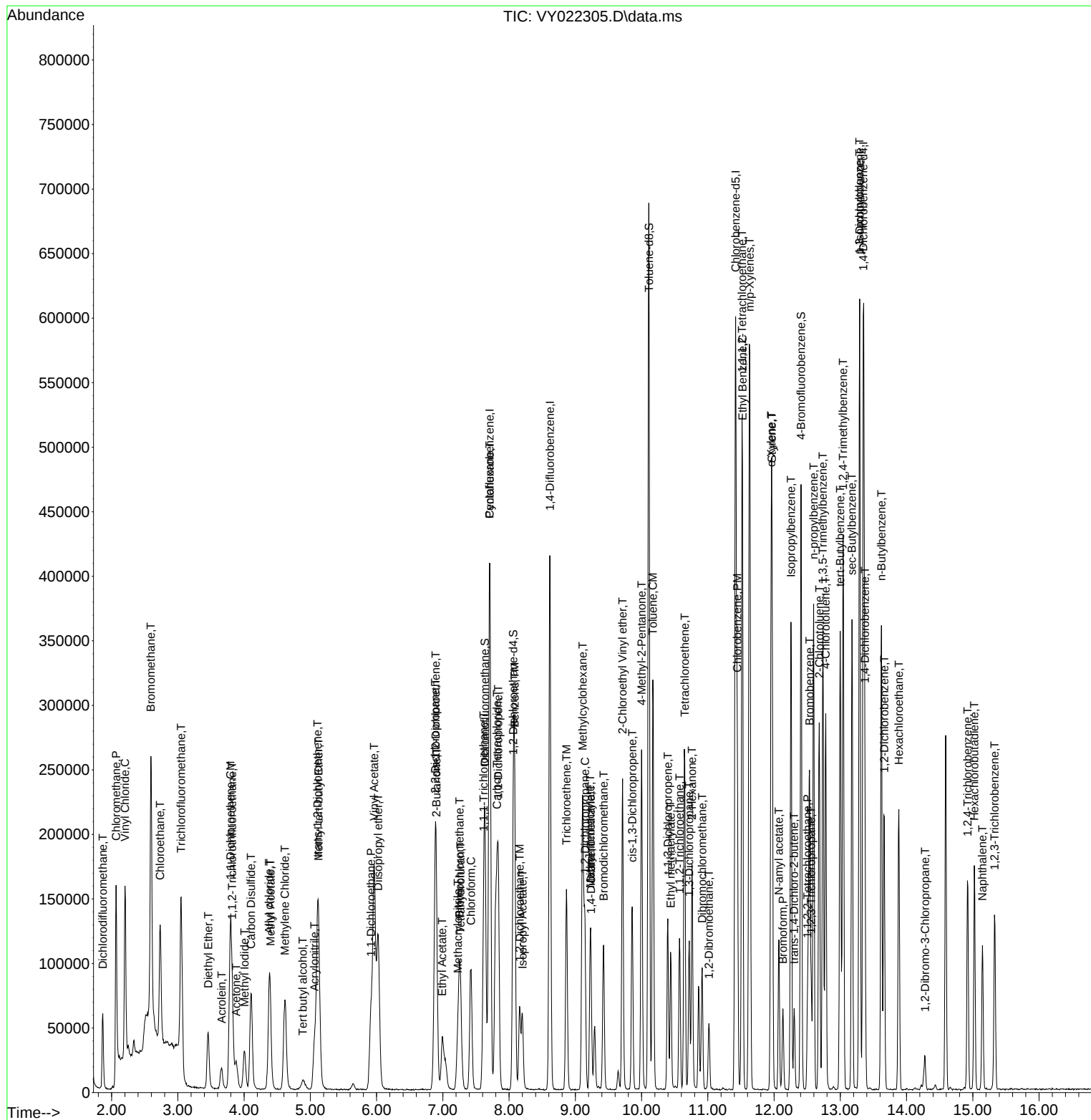
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY051925\
Data File : VY022305.D
Acq On : 19 May 2025 09:36
Operator : SY/MD
Sample : VY0519SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0519SBS01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 05/21/2025
Supervised By :Semsettin Yesilyurt 05/21/2025

Quant Time: May 20 01:08:39 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:42:09 2025
Response via : Initial Calibration



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Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052025\
 Data File : VY022331.D
 Acq On : 20 May 2025 10:21
 Operator : SY/MD
 Sample : VY0520SBS01
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VY0520SBS01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 05/21/2025
 Supervised By :Semsettin Yesilyurt 05/21/2025

Quant Time: May 21 01:43:50 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
 Quant Title : SW846 8260
 QLast Update : Fri May 16 01:42:09 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.707	168	162404	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	280923	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	236555	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.347	152	111469	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	93712	52.798	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 105.600%			
35) Dibromofluoromethane	7.634	113	87259	52.042	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 104.080%			
50) Toluene-d8	10.103	98	353867	51.531	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 103.060%			
62) 4-Bromofluorobenzene	12.408	95	103841	47.707	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 95.420%			
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.867	85	35898	21.184	ug/l	98
3) Chloromethane	2.068	50	106010	29.739	ug/l	96
4) Vinyl Chloride	2.202	62	121528	30.514	ug/l	99
5) Bromomethane	2.592	94	123030	37.947	ug/l	93
6) Chloroethane	2.733	64	86905	35.075	ug/l	97
7) Trichlorofluoromethane	3.044	101	115381	28.614	ug/l	96
8) Diethyl Ether	3.452	74	21262	21.972	ug/l	97
9) 1,1,2-Trichlorotrifluo...	3.806	101	39180	22.382	ug/l	98
10) Methyl Iodide	4.001	142	39806	19.647	ug/l	97
11) Tert butyl alcohol	4.885	59	15076	111.229	ug/l #	100
12) 1,1-Dichloroethene	3.787	96	38409	22.110	ug/l	99
13) Acrolein	3.653	56	14505	73.203	ug/l	92
14) Allyl chloride	4.379	41	58664	19.259	ug/l	91
15) Acrylonitrile	5.055	53	44040	110.449	ug/l	99
16) Acetone	3.873	43	33441	100.481	ug/l	96
17) Carbon Disulfide	4.104	76	121089	21.376	ug/l	100
18) Methyl Acetate	4.391	43	22221	21.176	ug/l	94
19) Methyl tert-butyl Ether	5.116	73	105578	22.042	ug/l	100
20) Methylene Chloride	4.616	84	43159	20.069	ug/l	92
21) trans-1,2-Dichloroethene	5.110	96	41335	21.557	ug/l	94
22) Diisopropyl ether	6.013	45	129506	20.133	ug/l	94
23) Vinyl Acetate	5.958	43	393589	101.282	ug/l	97
24) 1,1-Dichloroethane	5.909	63	76757	21.359	ug/l	99
25) 2-Butanone	6.897	43	57164	102.685	ug/l	99
26) 2,2-Dichloropropane	6.884	77	65941	20.630	ug/l	100
27) cis-1,2-Dichloroethene	6.890	96	47974	21.681	ug/l	98
28) Bromochloromethane	7.244	49	32721	21.346	ug/l	98
29) Tetrahydrofuran	7.262	42	38507	107.516	ug/l	95
30) Chloroform	7.421	83	76921	22.315	ug/l	97
31) Cyclohexane	7.701	56	74031	20.618	ug/l	95
32) 1,1,1-Trichloroethane	7.616	97	67990	21.499	ug/l	99
36) 1,1-Dichloropropene	7.835	75	54092	19.586	ug/l	96
37) Ethyl Acetate	6.982	43	27235	20.496	ug/l	97
38) Carbon Tetrachloride	7.817	117	59086	20.669	ug/l	100
39) Methylcyclohexane	9.110	83	75810	20.432	ug/l	95
40) Benzene	8.079	78	170661	20.845	ug/l	98

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Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052025\
 Data File : VY022331.D
 Acq On : 20 May 2025 10:21
 Operator : SY/MD
 Sample : VY0520SBS01
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 4 Sample Multiplier: 1

Instrument :

MSVOA_Y

ClientSampleId :

VY0520SBS01

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 05/21/2025

Supervised By :Semsettin Yesilyurt 05/21/2025

Quant Time: May 21 01:43:50 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M

Quant Title : SW846 8260

QLast Update : Fri May 16 01:42:09 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.220	41	15384	17.453	ug/l #	84
42) 1,2-Dichloroethane	8.158	62	47209	21.323	ug/l	99
43) Isopropyl Acetate	8.195	43	58799	20.290	ug/l	97
44) Trichloroethene	8.866	130	41880	20.573	ug/l	96
45) 1,2-Dichloropropane	9.140	63	40216	20.374	ug/l	96
46) Dibromomethane	9.231	93	22879	21.490	ug/l	98
47) Bromodichloromethane	9.420	83	57637	20.869	ug/l	99
48) Methyl methacrylate	9.219	41	26138	19.286	ug/l	92
49) 1,4-Dioxane	9.238	88	5078	422.215	ug/l #	88
51) 4-Methyl-2-Pentanone	10.000	43	142570	100.263	ug/l	97
52) Toluene	10.170	92	103885	20.038	ug/l	99
53) t-1,3-Dichloropropene	10.396	75	54150	20.090	ug/l	99
54) cis-1,3-Dichloropropene	9.853	75	62298	20.174	ug/l	97
55) 1,1,2-Trichloroethane	10.573	97	28800	21.126	ug/l	97
56) Ethyl methacrylate	10.439	69	43432	20.452	ug/l	96
57) 1,3-Dichloropropane	10.719	76	51011	21.060	ug/l	97
58) 2-Chloroethyl Vinyl ether	9.713	63	83740	87.855	ug/l	99
59) 2-Hexanone	10.762	43	93178	97.733	ug/l	96
60) Dibromochloromethane	10.908	129	36043	20.369	ug/l	98
61) 1,2-Dibromoethane	11.012	107	27035	21.277	ug/l	99
64) Tetrachloroethene	10.646	164	47128	21.554	ug/l	98
65) Chlorobenzene	11.438	112	109284	20.477	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.518	131	36824	20.070	ug/l	99
67) Ethyl Benzene	11.518	91	198160	19.826	ug/l	98
68) m/p-Xylenes	11.627	106	149258	39.630	ug/l	98
69) o-Xylene	11.957	106	71971	20.198	ug/l	97
70) Styrene	11.969	104	118483	19.712	ug/l	99
71) Bromoform	12.133	173	20531	20.732	ug/l #	98
73) Isopropylbenzene	12.255	105	185361	20.072	ug/l	99
74) N-amyl acetate	12.072	43	50457	19.104	ug/l	96
75) 1,1,2,2-Tetrachloroethane	12.505	83	29407	20.706	ug/l	97
76) 1,2,3-Trichloropropane	12.554	75	24209m	21.437	ug/l	
77) Bromobenzene	12.530	156	39771	20.164	ug/l	99
78) n-propylbenzene	12.597	91	226302	20.317	ug/l	100
79) 2-Chlorotoluene	12.682	91	120639	19.708	ug/l	98
80) 1,3,5-Trimethylbenzene	12.737	105	145541	19.524	ug/l	97
81) trans-1,4-Dichloro-2-b...	12.304	75	10455	18.754	ug/l	98
82) 4-Chlorotoluene	12.780	91	123547	19.623	ug/l	98
83) tert-Butylbenzene	12.999	119	131465	19.842	ug/l	99
84) 1,2,4-Trimethylbenzene	13.042	105	142982	19.322	ug/l	97
85) sec-Butylbenzene	13.176	105	196521	19.981	ug/l	100
86) p-Isopropyltoluene	13.292	119	160020	19.345	ug/l	99
87) 1,3-Dichlorobenzene	13.286	146	77805	19.324	ug/l	99
88) 1,4-Dichlorobenzene	13.365	146	77620	20.041	ug/l	97
89) n-Butylbenzene	13.615	91	154259	19.712	ug/l	99
90) Hexachloroethane	13.877	117	32205	19.287	ug/l	98
91) 1,2-Dichlorobenzene	13.658	146	67307	19.901	ug/l	100
92) 1,2-Dibromo-3-Chloropr...	14.273	75	5031	21.968	ug/l	95
93) 1,2,4-Trichlorobenzene	14.919	180	37416	19.152	ug/l	98
94) Hexachlorobutadiene	15.023	225	20316	18.648	ug/l	99
95) Naphthalene	15.145	128	72453	19.543	ug/l	99
96) 1,2,3-Trichlorobenzene	15.328	180	31537	19.029	ug/l	99

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Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052025\
Data File : VY022331.D
Acq On : 20 May 2025 10:21
Operator : SY/MD
Sample : VY0520SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0520SBS01

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 05/21/2025
Supervised By :Semsettin Yesilyurt 05/21/2025

Quant Time: May 21 01:43:50 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:42:09 2025
Response via : Initial Calibration

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

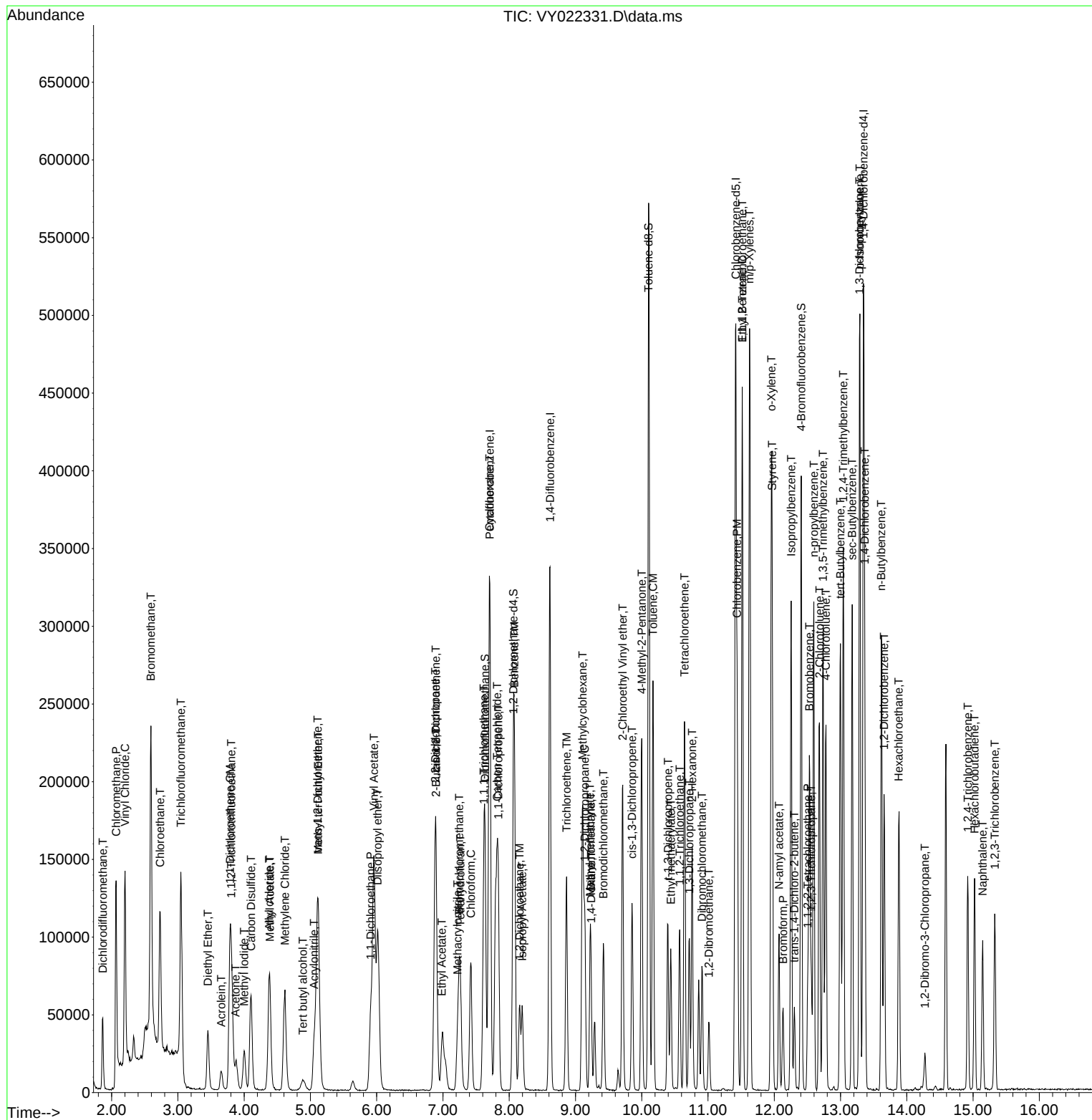
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052025\
Data File : VY022331.D
Acq On : 20 May 2025 10:21
Operator : SY/MD
Sample : VY0520SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0520SBS01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 05/21/2025
Supervised By :Semsettin Yesilyurt 05/21/2025

Quant Time: May 21 01:43:50 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:42:09 2025
Response via : Initial Calibration



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Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052125\
 Data File : VY022356.D
 Acq On : 21 May 2025 10:35
 Operator : SY/MD
 Sample : VY0521SBS01
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VY0521SBS01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 05/22/2025
 Supervised By :Semsettin Yesilyurt 05/22/2025

Quant Time: May 22 00:05:20 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
 Quant Title : SW846 8260
 QLast Update : Fri May 16 01:42:09 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.713	168	164670	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.622	114	280143	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	238357	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.352	152	110395	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.067	65	86818	48.241	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery =	96.480%		
35) Dibromofluoromethane	7.640	113	80971	48.426	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery =	96.860%		
50) Toluene-d8	10.115	98	328068	47.907	ug/l	0.01
Spiked Amount 50.000	Range 58 - 134		Recovery =	95.820%		
62) 4-Bromofluorobenzene	12.408	95	98452	45.357	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery =	90.720%		
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.867	85	34138	19.868	ug/l	98
3) Chloromethane	2.068	50	97076	26.858	ug/l	100
4) Vinyl Chloride	2.208	62	110643	27.399	ug/l	100
5) Bromomethane	2.598	94	122163	37.162	ug/l	99
6) Chloroethane	2.732	64	82714	32.924	ug/l	99
7) Trichlorofluoromethane	3.049	101	101107	24.729	ug/l	98
8) Diethyl Ether	3.464	74	20408	20.799	ug/l	93
9) 1,1,2-Trichlorotrifluo...	3.818	101	37897	21.351	ug/l	97
10) Methyl Iodide	4.007	142	39030	18.999	ug/l	99
11) Tert butyl alcohol	4.897	59	14356	104.460	ug/l #	100
12) 1,1-Dichloroethene	3.799	96	37155	21.094	ug/l	89
13) Acrolein	3.659	56	12494	62.187	ug/l	95
14) Allyl chloride	4.391	41	57737	18.694	ug/l	96
15) Acrylonitrile	5.067	53	43574	107.777	ug/l	97
16) Acetone	3.885	43	31735	94.042	ug/l	97
17) Carbon Disulfide	4.110	76	116347	20.256	ug/l	99
18) Methyl Acetate	4.391	43	20399	19.173	ug/l	97
19) Methyl tert-butyl Ether	5.122	73	103046	21.217	ug/l	92
20) Methylene Chloride	4.622	84	42530	19.505	ug/l	93
21) trans-1,2-Dichloroethene	5.116	96	39956	20.551	ug/l	93
22) Diisopropyl ether	6.025	45	125549	19.249	ug/l	96
23) Vinyl Acetate	5.970	43	382139	96.982	ug/l	97
24) 1,1-Dichloroethane	5.921	63	74003	20.309	ug/l	97
25) 2-Butanone	6.909	43	54351	96.288	ug/l	98
26) 2,2-Dichloropropane	6.890	77	63731	19.664	ug/l	98
27) cis-1,2-Dichloroethene	6.902	96	47008	20.952	ug/l	97
28) Bromochloromethane	7.256	49	31153	20.044	ug/l	98
29) Tetrahydrofuran	7.274	42	36661	100.953	ug/l	94
30) Chloroform	7.427	83	72715	20.805	ug/l	97
31) Cyclohexane	7.707	56	70259	19.298	ug/l	95
32) 1,1,1-Trichloroethane	7.622	97	64315	20.057	ug/l	99
36) 1,1-Dichloropropene	7.841	75	54176	19.671	ug/l	98
37) Ethyl Acetate	6.994	43	25337	19.120	ug/l	97
38) Carbon Tetrachloride	7.823	117	56336	19.762	ug/l	100
39) Methylcyclohexane	9.115	83	71670	19.370	ug/l	98
40) Benzene	8.085	78	164958	20.204	ug/l	99

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Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052125\
 Data File : VY022356.D
 Acq On : 21 May 2025 10:35
 Operator : SY/MD
 Sample : VY0521SBS01
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 4 Sample Multiplier: 1

Instrument :

MSVOA_Y

ClientSampleId :

VY0521SBS01

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 05/22/2025

Supervised By :Semsettin Yesilyurt 05/22/2025

Quant Time: May 22 00:05:20 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M

Quant Title : SW846 8260

QLast Update : Fri May 16 01:42:09 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.232	41	17779m	20.226	ug/l	
42) 1,2-Dichloroethane	8.164	62	45120	20.436	ug/l	100
43) Isopropyl Acetate	8.207	43	56123	19.420	ug/l	98
44) Trichloroethene	8.872	130	40988	20.191	ug/l	98
45) 1,2-Dichloropropane	9.146	63	39052	19.840	ug/l	97
46) Dibromomethane	9.237	93	21913	20.640	ug/l	98
47) Bromodichloromethane	9.426	83	55778	20.252	ug/l	97
48) Methyl methacrylate	9.225	41	25313	18.730	ug/l	95
49) 1,4-Dioxane	9.250	88	4878	406.715	ug/l	92
51) 4-Methyl-2-Pentanone	10.006	43	136690	96.396	ug/l	98
52) Toluene	10.176	92	103033	19.929	ug/l	98
53) t-1,3-Dichloropropene	10.402	75	52044	19.362	ug/l	98
54) cis-1,3-Dichloropropene	9.859	75	61214	19.878	ug/l	96
55) 1,1,2-Trichloroethane	10.579	97	28278	20.800	ug/l	98
56) Ethyl methacrylate	10.444	69	41124	19.419	ug/l	98
57) 1,3-Dichloropropane	10.725	76	49500	20.493	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.719	63	80930	85.143	ug/l	99
59) 2-Hexanone	10.768	43	91150	95.872	ug/l	97
60) Dibromochloromethane	10.914	129	36605	20.744	ug/l	98
61) 1,2-Dibromoethane	11.018	107	26112	20.608	ug/l	99
64) Tetrachloroethene	10.652	164	44880	20.371	ug/l	98
65) Chlorobenzene	11.450	112	108362	20.151	ug/l	97
66) 1,1,1,2-Tetrachloroethane	11.524	131	36004	19.475	ug/l	98
67) Ethyl Benzene	11.524	91	194067	19.270	ug/l	98
68) m/p-Xylenes	11.633	106	146681	38.652	ug/l	98
69) o-Xylene	11.956	106	69558	19.373	ug/l	97
70) Styrene	11.975	104	115812	19.122	ug/l	98
71) Bromoform	12.139	173	19242	19.283	ug/l #	97
73) Isopropylbenzene	12.261	105	181695	19.867	ug/l	99
74) N-amyl acetate	12.078	43	50097	19.152	ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.511	83	29384	20.891	ug/l	99
76) 1,2,3-Trichloropropane	12.560	75	22634m	20.238	ug/l	
77) Bromobenzene	12.536	156	39412	20.177	ug/l	99
78) n-propylbenzene	12.603	91	219624	19.909	ug/l	100
79) 2-Chlorotoluene	12.682	91	118240	19.504	ug/l	97
80) 1,3,5-Trimethylbenzene	12.743	105	143263	19.405	ug/l	99
81) trans-1,4-Dichloro-2-b...	12.310	75	10533	19.078	ug/l	98
82) 4-Chlorotoluene	12.779	91	118914	19.071	ug/l	97
83) tert-Butylbenzene	13.005	119	130367	19.867	ug/l	97
84) 1,2,4-Trimethylbenzene	13.048	105	142961	19.507	ug/l	97
85) sec-Butylbenzene	13.182	105	192742	19.787	ug/l	100
86) p-Isopropyltoluene	13.298	119	157967	19.282	ug/l	99
87) 1,3-Dichlorobenzene	13.292	146	77746	19.497	ug/l	99
88) 1,4-Dichlorobenzene	13.371	146	76937	20.058	ug/l	100
89) n-Butylbenzene	13.621	91	152333	19.655	ug/l	99
90) Hexachloroethane	13.883	117	31863	19.268	ug/l	97
91) 1,2-Dichlorobenzene	13.663	146	67362	20.111	ug/l	98
92) 1,2-Dibromo-3-Chloropr...	14.279	75	4571	20.154	ug/l	97
93) 1,2,4-Trichlorobenzene	14.925	180	38942	20.127	ug/l	98
94) Hexachlorobutadiene	15.029	225	20290	18.805	ug/l	95
95) Naphthalene	15.151	128	74806	20.374	ug/l	99
96) 1,2,3-Trichlorobenzene	15.334	180	32242	19.644	ug/l	97

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Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052125\
Data File : VY022356.D
Acq On : 21 May 2025 10:35
Operator : SY/MD
Sample : VY0521SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0521SBS01

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 05/22/2025
Supervised By :Semsettin Yesilyurt 05/22/2025

Quant Time: May 22 00:05:20 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:42:09 2025
Response via : Initial Calibration

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

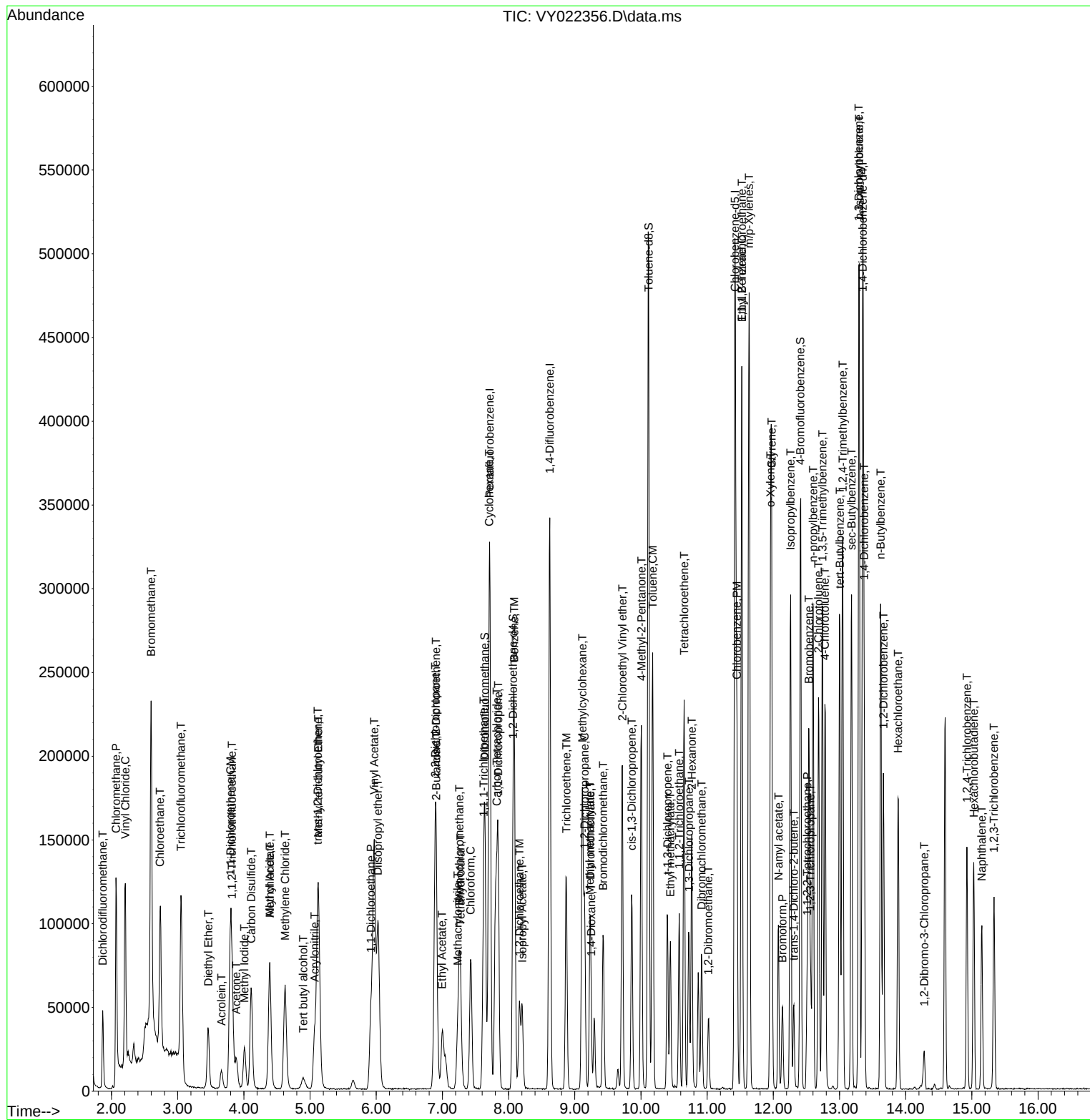
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052125\
 Data File : VY022356.D
 Acq On : 21 May 2025 10:35
 Operator : SY/MD
 Sample : VY0521SBS01
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VY0521SBS01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 05/22/2025
 Supervised By :Semsettin Yesilyurt 05/22/2025

Quant Time: May 22 00:05:20 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
 Quant Title : SW846 8260
 QLast Update : Fri May 16 01:42:09 2025
 Response via : Initial Calibration



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Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY051925\
 Data File : VY022306.D
 Acq On : 19 May 2025 09:59
 Operator : SY/MD
 Sample : VY0519SBS01
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VY0519SBS01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 05/21/2025
 Supervised By :Semsettin Yesilyurt 05/21/2025

Quant Time: May 20 01:09:36 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
 Quant Title : SW846 8260
 QLast Update : Fri May 16 01:42:09 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.707	168	194565	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	331521	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	276940	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.347	152	128146	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	107354	50.486	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 100.980%			
35) Dibromofluoromethane	7.634	113	100429	50.755	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 101.500%			
50) Toluene-d8	10.103	98	414823	51.188	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 102.380%			
62) 4-Bromofluorobenzene	12.408	95	121910	47.460	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 94.920%			
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.867	85	43055	21.207	ug/l	96
3) Chloromethane	2.068	50	113821	26.652	ug/l	99
4) Vinyl Chloride	2.202	62	128803	26.995	ug/l	99
5) Bromomethane	2.592	94	124608	32.081	ug/l	98
6) Chloroethane	2.733	64	87807	29.581	ug/l	98
7) Trichlorofluoromethane	3.050	101	122549	25.368	ug/l	95
8) Diethyl Ether	3.452	74	24175	20.853	ug/l	94
9) 1,1,2-Trichlorotrifluo...	3.812	101	45542	21.716	ug/l	99
10) Methyl Iodide	4.001	142	50436	20.779	ug/l	100
11) Tert butyl alcohol	4.879	59	15476	95.307	ug/l #	100
12) 1,1-Dichloroethene	3.787	96	45072	21.657	ug/l	95
13) Acrolein	3.653	56	19543	82.326	ug/l	99
14) Allyl chloride	4.385	41	70168	19.228	ug/l	95
15) Acrylonitrile	5.061	53	48359	101.234	ug/l	99
16) Acetone	3.879	43	33255	83.405	ug/l	99
17) Carbon Disulfide	4.104	76	143565	21.154	ug/l	99
18) Methyl Acetate	4.385	43	24721	19.665	ug/l	95
19) Methyl tert-butyl Ether	5.122	73	119462	20.818	ug/l	96
20) Methylene Chloride	4.610	84	50462	19.587	ug/l	94
21) trans-1,2-Dichloroethene	5.116	96	48842	21.262	ug/l	99
22) Diisopropyl ether	6.019	45	152437	19.781	ug/l	97
23) Vinyl Acetate	5.958	43	449453	96.539	ug/l	100
24) 1,1-Dichloroethane	5.909	63	89079	20.690	ug/l	98
25) 2-Butanone	6.896	43	61413	92.082	ug/l	99
26) 2,2-Dichloropropane	6.884	77	78841	20.589	ug/l	99
27) cis-1,2-Dichloroethene	6.896	96	55830	21.061	ug/l	99
28) Bromochloromethane	7.244	49	38029	20.708	ug/l	99
29) Tetrahydrofuran	7.262	42	42869	99.910	ug/l	98
30) Chloroform	7.421	83	88657	21.469	ug/l	99
31) Cyclohexane	7.701	56	87956	20.447	ug/l	99
32) 1,1,1-Trichloroethane	7.622	97	79733	21.045	ug/l	100
36) 1,1-Dichloropropene	7.835	75	67371	20.671	ug/l	99
37) Ethyl Acetate	6.988	43	29722	18.954	ug/l	98
38) Carbon Tetrachloride	7.817	117	69525	20.608	ug/l	97
39) Methylcyclohexane	9.110	83	87625	20.012	ug/l	97
40) Benzene	8.079	78	200424	20.744	ug/l	100

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Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY051925\
 Data File : VY022306.D
 Acq On : 19 May 2025 09:59
 Operator : SY/MD
 Sample : VY0519SBS01
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 5 Sample Multiplier: 1

Instrument :

MSVOA_Y

ClientSampleId :

VY0519SBS01

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 05/21/2025

Supervised By :Semsettin Yesilyurt 05/21/2025

Quant Time: May 20 01:09:36 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M

Quant Title : SW846 8260

QLast Update : Fri May 16 01:42:09 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.226	41	16084	15.462	ug/l #	80
42) 1,2-Dichloroethane	8.158	62	52712	20.174	ug/l	100
43) Isopropyl Acetate	8.195	43	64516	18.865	ug/l	98
44) Trichloroethene	8.866	130	49650	20.667	ug/l	96
45) 1,2-Dichloropropane	9.140	63	47015	20.183	ug/l	100
46) Dibromomethane	9.231	93	26192	20.847	ug/l	97
47) Bromodichloromethane	9.420	83	66833	20.505	ug/l	98
48) Methyl methacrylate	9.219	41	29452	18.415	ug/l	93
49) 1,4-Dioxane	9.231	88	5547	390.819	ug/l	97
51) 4-Methyl-2-Pentanone	10.000	43	158163	94.253	ug/l	98
52) Toluene	10.170	92	123710	20.220	ug/l	98
53) t-1,3-Dichloropropene	10.396	75	62382	19.612	ug/l	98
54) cis-1,3-Dichloropropene	9.853	75	74146	20.346	ug/l	96
55) 1,1,2-Trichloroethane	10.573	97	33457	20.796	ug/l	97
56) Ethyl methacrylate	10.439	69	48821	19.481	ug/l	98
57) 1,3-Dichloropropane	10.719	76	57054	19.960	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.713	63	99928	88.837	ug/l	98
59) 2-Hexanone	10.762	43	103950	92.391	ug/l	96
60) Dibromochloromethane	10.914	129	41635	19.938	ug/l	99
61) 1,2-Dibromoethane	11.012	107	29997	20.005	ug/l	98
64) Tetrachloroethene	10.646	164	52068	20.341	ug/l	94
65) Chlorobenzene	11.444	112	128350	20.542	ug/l	97
66) 1,1,1,2-Tetrachloroethane	11.518	131	43068	20.051	ug/l	99
67) Ethyl Benzene	11.518	91	232654	19.883	ug/l	98
68) m/p-Xylenes	11.627	106	176339	39.993	ug/l	100
69) o-Xylene	11.957	106	83255	19.957	ug/l	99
70) Styrene	11.969	104	140022	19.898	ug/l	99
71) Bromoform	12.133	173	22935	19.782	ug/l #	100
73) Isopropylbenzene	12.255	105	219562	20.682	ug/l	99
74) N-amyl acetate	12.072	43	57158	18.825	ug/l	97
75) 1,1,2,2-Tetrachloroethane	12.505	83	34577	21.178	ug/l	98
76) 1,2,3-Trichloropropane	12.554	75	26521m	20.428	ug/l	
77) Bromobenzene	12.536	156	46327	20.432	ug/l	100
78) n-propylbenzene	12.597	91	265840	20.760	ug/l	99
79) 2-Chlorotoluene	12.682	91	142473	20.246	ug/l	98
80) 1,3,5-Trimethylbenzene	12.737	105	172377	20.114	ug/l	99
81) trans-1,4-Dichloro-2-b...	12.304	75	12146	18.952	ug/l	94
82) 4-Chlorotoluene	12.780	91	142463	19.682	ug/l	99
83) tert-Butylbenzene	12.999	119	155407	20.403	ug/l	99
84) 1,2,4-Trimethylbenzene	13.042	105	171885	20.205	ug/l	98
85) sec-Butylbenzene	13.176	105	235679	20.844	ug/l	100
86) p-Isopropyltoluene	13.292	119	191308	20.117	ug/l	99
87) 1,3-Dichlorobenzene	13.286	146	91946	19.864	ug/l	99
88) 1,4-Dichlorobenzene	13.365	146	90855	20.406	ug/l	99
89) n-Butylbenzene	13.615	91	185056	20.570	ug/l	98
90) Hexachloroethane	13.877	117	38879	20.253	ug/l	100
91) 1,2-Dichlorobenzene	13.657	146	77516	19.937	ug/l	98
92) 1,2-Dibromo-3-Chloropr...	14.273	75	5591	21.236	ug/l	94
93) 1,2,4-Trichlorobenzene	14.919	180	44362	19.753	ug/l	99
94) Hexachlorobutadiene	15.023	225	25145	20.076	ug/l	96
95) Naphthalene	15.145	128	82889	19.449	ug/l	99
96) 1,2,3-Trichlorobenzene	15.328	180	36544	19.181	ug/l	98

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Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY051925\
Data File : VY022306.D
Acq On : 19 May 2025 09:59
Operator : SY/MD
Sample : VY0519SBSD01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0519SBSD01

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 05/21/2025
Supervised By :Semsettin Yesilyurt 05/21/2025

Quant Time: May 20 01:09:36 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:42:09 2025
Response via : Initial Calibration

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

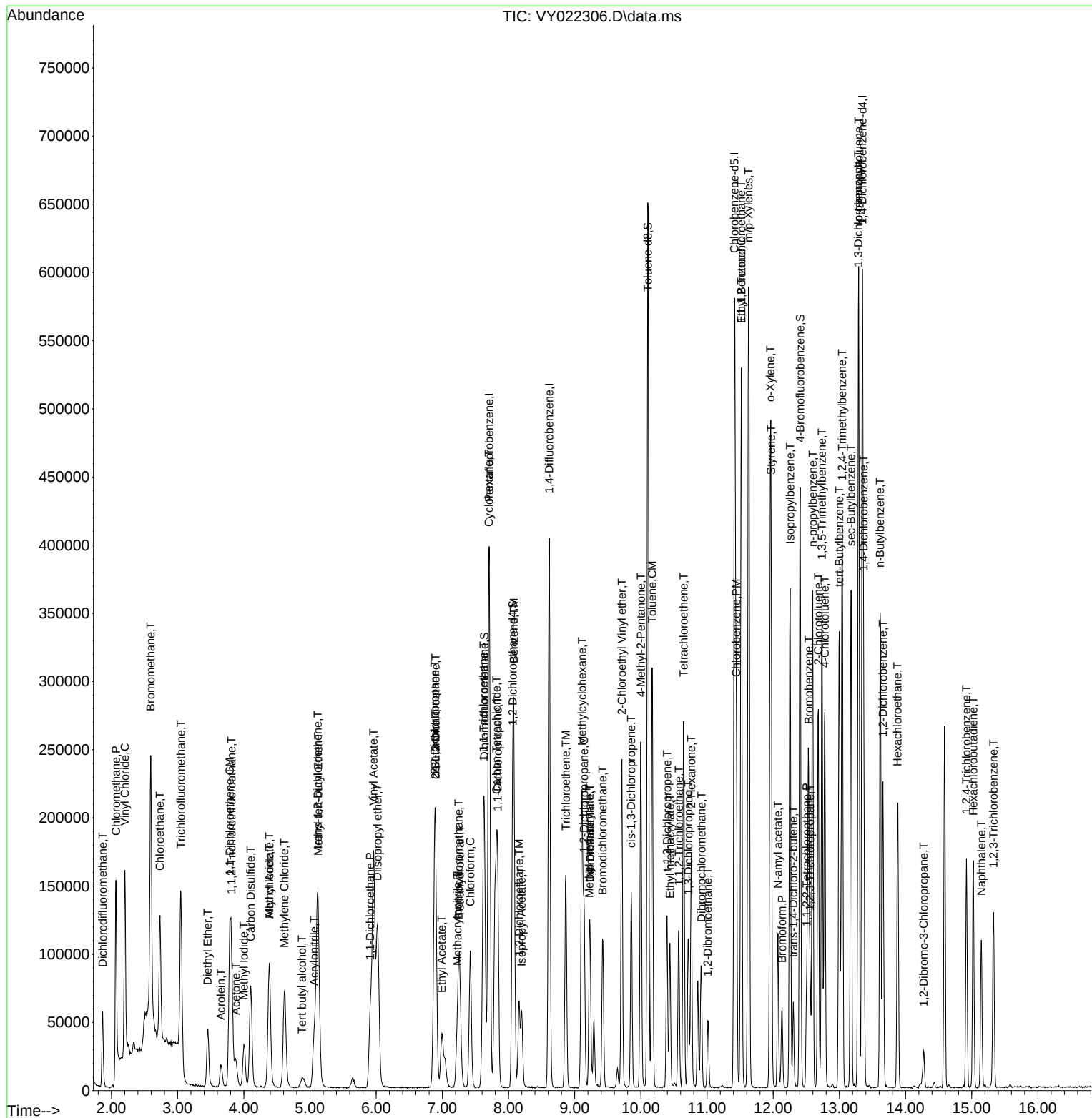
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY051925\
Data File : VY022306.D
Acq On : 19 May 2025 09:59
Operator : SY/MD
Sample : VY0519SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0519SBSD01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 05/21/2025
Supervised By :Semsettin Yesilyurt 05/21/2025

Quant Time: May 20 01:09:36 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:42:09 2025
Response via : Initial Calibration



Manual Integration Report

Sequence:	VY051525	Instrument	MSVOA_y
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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDIC005	VY022253.D	1,2,3-Trichloropropane	MMDadoda	5/16/2025 11:48:35 AM	Sam	5/16/2025 11:50:51 AM	Peak Integrated by Software
VSTDIC005	VY022253.D	Methacrylonitrile	MMDadoda	5/16/2025 11:48:35 AM	Sam	5/16/2025 11:50:51 AM	Peak Integrated by Software
VSTDIC005	VY022253.D	Methyl Acetate	MMDadoda	5/16/2025 11:48:35 AM	Sam	5/16/2025 11:50:51 AM	Peak Integrated by Software
VSTDIC010	VY022254.D	1,2,3-Trichloropropane	MMDadoda	5/16/2025 11:48:33 AM	Sam	5/16/2025 11:50:49 AM	Peak Integrated by Software
VSTDIC010	VY022254.D	Methacrylonitrile	MMDadoda	5/16/2025 11:48:33 AM	Sam	5/16/2025 11:50:49 AM	Peak Integrated by Software
VSTDIC020	VY022255.D	1,2,3-Trichloropropane	MMDadoda	5/16/2025 11:48:32 AM	Sam	5/16/2025 11:50:48 AM	Peak Integrated by Software
VSTDIC020	VY022255.D	Methacrylonitrile	MMDadoda	5/16/2025 11:48:32 AM	Sam	5/16/2025 11:50:48 AM	Peak Integrated by Software
VSTDICCC050	VY022256.D	1,2,3-Trichloropropane	MMDadoda	5/16/2025 11:48:30 AM	Sam	5/16/2025 11:50:46 AM	Peak Integrated by Software
VSTDICCC050	VY022256.D	Methacrylonitrile	MMDadoda	5/16/2025 11:48:30 AM	Sam	5/16/2025 11:50:46 AM	Peak Integrated by Software
VSTDIC100	VY022257.D	1,2,3-Trichloropropane	MMDadoda	5/16/2025 11:48:28 AM	Sam	5/16/2025 11:50:45 AM	Peak Integrated by Software
VSTDIC100	VY022257.D	Methacrylonitrile	MMDadoda	5/16/2025 11:48:28 AM	Sam	5/16/2025 11:50:45 AM	Peak Integrated by Software
VSTDIC150	VY022258.D	1,2,3-Trichloropropane	MMDadoda	5/16/2025 11:48:27 AM	Sam	5/16/2025 11:50:43 AM	Peak Integrated by Software
VSTDIC150	VY022258.D	Methacrylonitrile	MMDadoda	5/16/2025 11:48:27 AM	Sam	5/16/2025 11:50:43 AM	Peak Integrated by Software

Manual Integration Report

Sequence:

VY051525

Instrument

MSVOA_y

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICV050	VY022260.D	1,2,3-Trichloropropane	MMDadoda	5/16/2025 11:48:25 AM	Sam	5/16/2025 11:50:42 AM	Peak Integrated by Software
VSTDICV050	VY022260.D	Methacrylonitrile	MMDadoda	5/16/2025 11:48:25 AM	Sam	5/16/2025 11:50:42 AM	Peak Integrated by Software
VSTDCCC050	VY022275.D	1,2,3-Trichloropropane	MMDadoda	5/16/2025 11:48:21 AM	Sam	5/16/2025 11:50:27 AM	Peak Integrated by Software
VSTDCCC050	VY022275.D	Methacrylonitrile	MMDadoda	5/16/2025 11:48:21 AM	Sam	5/16/2025 11:50:27 AM	Peak Integrated by Software

Manual Integration Report

Sequence:

vy051925

Instrument

MSVOA_y

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC050	VY022303.D	1,2,3-Trichloropropane	MMDadoda	5/21/2025 3:42:35 PM	Sam	5/21/2025 3:54:21 PM	Peak Integrated by Software
VY0519SBS01	VY022305.D	1,2,3-Trichloropropane	MMDadoda	5/21/2025 3:42:36 PM	Sam	5/21/2025 3:54:22 PM	Peak Integrated by Software
VY0519SBSD01	VY022306.D	1,2,3-Trichloropropane	MMDadoda	5/21/2025 3:42:38 PM	Sam	5/21/2025 3:54:24 PM	Peak Integrated by Software
VSTDCCC050	VY022327.D	1,2,3-Trichloropropane	MMDadoda	5/21/2025 3:42:40 PM	Sam	5/21/2025 3:54:26 PM	Peak Integrated by Software

Manual Integration Report

Sequence:

vy052025

Instrument

MSVOA_y

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC050	VY022329.D	1,2,3-Trichloropropane	MMDadod a	5/21/2025 3:43:03 PM	Sam	5/21/2025 3:55:05 PM	Peak Integrated by Software
VSTDCCC050	VY022329.D	Methacrylonitrile	MMDadod a	5/21/2025 3:43:03 PM	Sam	5/21/2025 3:55:05 PM	Peak Integrated by Software
VY0520SBS01	VY022331.D	1,2,3-Trichloropropane	MMDadod a	5/21/2025 3:43:06 PM	Sam	5/21/2025 3:55:08 PM	Peak Integrated by Software
VSTDCCC050	VY022352.D	1,2,3-Trichloropropane	MMDadod a	5/21/2025 3:43:22 PM	Sam	5/21/2025 3:55:19 PM	Peak Integrated by Software
VSTDCCC050	VY022352.D	Methacrylonitrile	MMDadod a	5/21/2025 3:43:22 PM	Sam	5/21/2025 3:55:19 PM	Peak Integrated by Software

Manual Integration Report

Sequence:	VY052125	Instrument	MSVOA_y
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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC050	VY022354.D	1,2,3-Trichloropropane	MMDadoda	5/22/2025 8:21:47 AM	Sam	5/22/2025 8:26:29 AM	Peak Integrated by Software
VSTDCCC050	VY022354.D	Methacrylonitrile	MMDadoda	5/22/2025 8:21:47 AM	Sam	5/22/2025 8:26:29 AM	Peak Integrated by Software
VY0521SBS01	VY022356.D	1,2,3-Trichloropropane	MMDadoda	5/22/2025 8:21:48 AM	Sam	5/22/2025 8:26:30 AM	Peak Integrated by Software
VY0521SBS01	VY022356.D	Methacrylonitrile	MMDadoda	5/22/2025 8:21:48 AM	Sam	5/22/2025 8:26:30 AM	Peak Integrated by Software

Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch ID # VY051525

Review By	Maresh Dadoda	Review On	5/16/2025 11:49:17 AM		
Supervise By	Semsettin Yesilyurt	Supervise On	5/16/2025 11:51:38 AM		
SubDirectory	VY051525	HP Acquire Method	MSVOA_Y	HP Processing Method	82y051525s.m
STD. NAME		STD REF.#			
Tune/Reschk		VP133916			
Initial Calibration Stds		VP133918,VP133919,VP133920,VP133921,VP133922,VP133923			
CCC		VP133925			
Internal Standard/PEM		VP131783			
ICV/I.BLK		VP133924			
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

Sr #	Sampleld	Data File Name	Date-Time	Operator	Status
1	BFB	VY022252.D	15 May 2025 07:52	SY/MD	Ok
2	VSTDICC005	VY022253.D	15 May 2025 09:46	SY/MD	Ok,M
3	VSTDICC010	VY022254.D	15 May 2025 10:16	SY/MD	Ok,M
4	VSTDICC020	VY022255.D	15 May 2025 10:39	SY/MD	Ok,M
5	VSTDICCC050	VY022256.D	15 May 2025 11:02	SY/MD	Ok,M
6	VSTDICC100	VY022257.D	15 May 2025 11:24	SY/MD	Ok,M
7	VSTDICC150	VY022258.D	15 May 2025 11:47	SY/MD	Ok,M
8	VIBLK	VY022259.D	15 May 2025 12:34	SY/MD	Ok
9	VSTDICV050	VY022260.D	15 May 2025 13:20	SY/MD	Ok,M
10	VY0515SBL01	VY022261.D	15 May 2025 13:44	SY/MD	Ok
11	VY0515SBS01	VY022262.D	15 May 2025 14:07	SY/MD	Ok,M
12	VY0515SBSD01	VY022263.D	15 May 2025 14:29	SY/MD	Ok,M
13	Q1984-01	VY022264.D	15 May 2025 15:12	SY/MD	Ok
14	Q1984-03	VY022265.D	15 May 2025 15:35	SY/MD	Ok
15	Q1984-05	VY022266.D	15 May 2025 15:59	SY/MD	Ok
16	Q1984-07	VY022267.D	15 May 2025 16:22	SY/MD	ReRun
17	Q1984-09	VY022268.D	15 May 2025 16:46	SY/MD	Not Ok
18	Q1984-11	VY022269.D	15 May 2025 17:09	SY/MD	Not Ok
19	Q1984-13	VY022270.D	15 May 2025 17:33	SY/MD	Not Ok
20	Q1984-15	VY022271.D	15 May 2025 17:56	SY/MD	ReRun
21	Q1982-04	VY022272.D	15 May 2025 18:19	SY/MD	Ok

Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QC Batch ID # VY051525

Review By	Maresh Dadoda	Review On	5/16/2025 11:49:17 AM		
Supervise By	Semsettin Yesilyurt	Supervise On	5/16/2025 11:51:38 AM		
SubDirectory	VY051525	HP Acquire Method	MSVOA_Y	HP Processing Method	82y051525s.m
STD. NAME	STD REF.#				
Tune/Reschk	VP133916				
Initial Calibration Stds	VP133918,VP133919,VP133920,VP133921,VP133922,VP133923				
CCC	VP133925				
Internal Standard/PEM	VP131783				
ICV/I.BLK	VP133924				
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

22	Q1982-05	VY022273.D	15 May 2025 18:43	SY/MD	Ok
23	Q1982-06	VY022274.D	15 May 2025 19:06	SY/MD	Ok
24	VSTDCCC050	VY022275.D	15 May 2025 19:52	SY/MD	Ok,M

M : Manual Integration

Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QC Batch ID # VY051925

Review By	Mahesh Dadoda	Review On	5/21/2025 3:42:46 PM
Supervise By	Semsettin Yesilyurt	Supervise On	5/21/2025 3:54:32 PM
SubDirectory	VY051925	HP Acquire Method	MSVOA_Y
		HP Processing Method	82y051525s.m
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	VP133960		
CCC	VP133961,VP133962		
Internal Standard/PEM	VP133934		
ICV/I.BLK			
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr #	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VY022302.D	19 May 2025 07:57	SY/MD	Ok
2	VSTDCCC050	VY022303.D	19 May 2025 08:27	SY/MD	Ok,M
3	VY0519SBL01	VY022304.D	19 May 2025 09:00	SY/MD	Ok
4	VY0519SBS01	VY022305.D	19 May 2025 09:36	SY/MD	Ok,M
5	VY0519SBSD01	VY022306.D	19 May 2025 09:59	SY/MD	Ok,M
6	Q2055-01	VY022307.D	19 May 2025 10:41	SY/MD	Ok
7	Q2052-03	VY022308.D	19 May 2025 11:04	SY/MD	Ok
8	Q2057-03	VY022309.D	19 May 2025 11:28	SY/MD	Ok
9	Q2048-03	VY022310.D	19 May 2025 11:51	SY/MD	Ok
10	Q2048-07	VY022311.D	19 May 2025 12:15	SY/MD	Ok
11	Q2048-11	VY022312.D	19 May 2025 12:38	SY/MD	Ok
12	Q2048-15	VY022313.D	19 May 2025 13:02	SY/MD	Ok
13	Q2003-02RE	VY022314.D	19 May 2025 13:25	SY/MD	Confirms
14	Q2062-03	VY022315.D	19 May 2025 13:49	SY/MD	Ok
15	Q2062-07	VY022316.D	19 May 2025 14:12	SY/MD	Ok
16	Q2062-11	VY022317.D	19 May 2025 14:35	SY/MD	Ok
17	Q2062-15	VY022318.D	19 May 2025 14:59	SY/MD	Ok
18	Q2062-19	VY022319.D	19 May 2025 15:22	SY/MD	Not Ok
19	Q2062-23	VY022320.D	19 May 2025 15:46	SY/MD	Not Ok
20	Q2071-03	VY022321.D	19 May 2025 16:09	SY/MD	Ok
21	Q2071-07	VY022322.D	19 May 2025 16:33	SY/MD	Ok

Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch ID # VY051925

Review By	Mahesh Dadoda	Review On	5/21/2025 3:42:46 PM		
Supervise By	Semsettin Yesilyurt	Supervise On	5/21/2025 3:54:32 PM		
SubDirectory	VY051925	HP Acquire Method	MSVOA_Y	HP Processing Method	82y051525s.m
STD. NAME		STD REF.#			
Tune/Reschk Initial Calibration Stds		VP133960			
CCC		VP133961,VP133962			
Internal Standard/PEM		VP133934			
ICV/I.BLK					
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

22	Q2071-11	VY022323.D	19 May 2025 16:56	SY/MD	Not Ok
23	Q2071-15	VY022324.D	19 May 2025 17:20	SY/MD	Ok
24	Q2021-02	VY022325.D	19 May 2025 17:43	SY/MD	Ok
25	Q2056-01	VY022326.D	19 May 2025 18:06	SY/MD	Ok
26	VSTDCCC050	VY022327.D	19 May 2025 18:52	SY/MD	Ok,M

M : Manual Integration

Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QC Batch ID # VY052025

Review By	Mahesh Dadoda	Review On	5/21/2025 3:43:30 PM		
Supervise By	Semsettin Yesilyurt	Supervise On	5/23/2025 2:22:55 AM		
SubDirectory	VY052025	HP Acquire Method	MSVOA_Y	HP Processing Method	82y051525s.m
STD. NAME		STD REF.#			
Tune/Reschk Initial Calibration Stds		VP133969			
CCC		VP133970,VP133971			
Internal Standard/PEM		VP133934			
ICV/I.BLK					
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

Sr #	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VY022328.D	20 May 2025 08:09	SY/MD	Ok
2	VSTDCCC050	VY022329.D	20 May 2025 08:40	SY/MD	Ok,M
3	VY0520SBL01	VY022330.D	20 May 2025 09:48	SY/MD	Ok
4	VY0520SBS01	VY022331.D	20 May 2025 10:21	SY/MD	Ok,M
5	VY0520SBSD01	VY022332.D	20 May 2025 10:43	SY/MD	Ok,M
6	Q2062-19	VY022333.D	20 May 2025 11:28	SY/MD	Ok
7	Q2062-23	VY022334.D	20 May 2025 11:51	SY/MD	Ok
8	Q2071-11	VY022335.D	20 May 2025 12:15	SY/MD	Ok
9	Q2056-02	VY022336.D	20 May 2025 12:38	SY/MD	Ok
10	Q2056-03	VY022337.D	20 May 2025 13:01	SY/MD	Ok
11	Q2056-04	VY022338.D	20 May 2025 13:25	SY/MD	Ok
12	Q2056-05	VY022339.D	20 May 2025 13:48	SY/MD	Not Ok
13	Q2080-02	VY022340.D	20 May 2025 14:12	SY/MD	Ok
14	Q2080-08	VY022341.D	20 May 2025 14:35	SY/MD	Ok
15	Q2032-02	VY022342.D	20 May 2025 14:59	SY/MD	Ok
16	Q2075-01	VY022343.D	20 May 2025 15:22	SY/MD	Ok
17	Q2075-02	VY022344.D	20 May 2025 15:45	SY/MD	Ok
18	Q2075-03	VY022345.D	20 May 2025 16:09	SY/MD	Ok
19	Q2084-02	VY022346.D	20 May 2025 16:32	SY/MD	Ok
20	Q2032-01	VY022347.D	20 May 2025 16:56	SY/MD	Dilution
21	Q2032-05MS	VY022348.D	20 May 2025 17:19	SY/MD	Ok,M

Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch ID # VY052025

Review By	Mahesh Dadoda	Review On	5/21/2025 3:43:30 PM		
Supervise By	Semsettin Yesilyurt	Supervise On	5/23/2025 2:22:55 AM		
SubDirectory	VY052025	HP Acquire Method	MSVOA_Y	HP Processing Method	82y051525s.m
STD. NAME	STD REF.#				
Tune/Reschk Initial Calibration Stds	VP133969				
CCC	VP133970,VP133971				
Internal Standard/PEM	VP133934				
ICV/I.BLK					
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

22	Q2032-06MSD	VY022349.D	20 May 2025 17:41	SY/MD	ReRun
23	Q2075-04MS	VY022350.D	20 May 2025 18:04	SY/MD	Ok,M
24	Q2075-05MSD	VY022351.D	20 May 2025 18:26	SY/MD	Ok,M
25	VSTDCCC050	VY022352.D	20 May 2025 19:34	SY/MD	Ok,M

M : Manual Integration

Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch ID # VY052125

Review By	Mahesh Dadoda	Review On	5/22/2025 8:21:53 AM		
Supervise By	Semsettin Yesilyurt	Supervise On	5/22/2025 8:26:36 AM		
SubDirectory	VY052125	HP Acquire Method	MSVOA_Y	HP Processing Method	82y051525s.m
STD. NAME		STD REF.#			
Tune/Reschk Initial Calibration Stds		VP133975			
CCC		VP133976,VP133977			
Internal Standard/PEM		VP133934			
ICV/I.BLK					
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

Sr #	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VY022353.D	21 May 2025 09:02	SY/MD	Ok
2	VSTDCCC050	VY022354.D	21 May 2025 09:33	SY/MD	Ok,M
3	VY0521SBL01	VY022355.D	21 May 2025 10:05	SY/MD	Ok
4	VY0521SBS01	VY022356.D	21 May 2025 10:35	SY/MD	Ok,M
5	VY0521SBSD01	VY022357.D	21 May 2025 10:58	SY/MD	Ok,M
6	Q2056-05	VY022358.D	21 May 2025 11:37	SY/MD	Ok
7	Q2071-11	VY022359.D	21 May 2025 12:00	SY/MD	Not Ok
8	Q2097-01	VY022360.D	21 May 2025 12:24	SY/MD	Ok
9	Q2097-03	VY022361.D	21 May 2025 12:47	SY/MD	Ok
10	Q2097-05	VY022362.D	21 May 2025 13:11	SY/MD	Ok
11	Q2097-07	VY022363.D	21 May 2025 13:34	SY/MD	Ok
12	Q2097-09	VY022364.D	21 May 2025 13:57	SY/MD	Ok
13	Q2097-11	VY022365.D	21 May 2025 14:21	SY/MD	ReRun
14	Q2097-13	VY022366.D	21 May 2025 14:44	SY/MD	Ok
15	Q2097-15	VY022367.D	21 May 2025 15:08	SY/MD	Ok
16	Q2097-17	VY022368.D	21 May 2025 15:31	SY/MD	Ok
17	Q2095-03	VY022369.D	21 May 2025 15:55	SY/MD	Ok
18	Q2095-07	VY022370.D	21 May 2025 16:18	SY/MD	Ok
19	Q2093-01	VY022371.D	21 May 2025 16:42	SY/MD	Ok
20	Q2092-01	VY022372.D	21 May 2025 17:05	SY/MD	Ok
21	Q2087-01	VY022373.D	21 May 2025 17:28	SY/MD	Ok

Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch ID # VY052125

Review By	Mahesh Dadoda	Review On	5/22/2025 8:21:53 AM		
Supervise By	Semsettin Yesilyurt	Supervise On	5/22/2025 8:26:36 AM		
SubDirectory	VY052125	HP Acquire Method	MSVOA_Y	HP Processing Method	82y051525s.m
STD. NAME		STD REF.#			
Tune/Reschk Initial Calibration Stds		VP133975			
CCC		VP133976,VP133977			
Internal Standard/PEM		VP133934			
ICV/I.BLK					
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

22	Q2087-03	VY022374.D	21 May 2025 17:52	SY/MD	ReRun
23	Q2101-03	VY022375.D	21 May 2025 18:15	SY/MD	ReRun
24	Q2104-01	VY022376.D	21 May 2025 18:39	SY/MD	ReRun
25	Q2102-01	VY022377.D	21 May 2025 19:02	SY/MD	ReRun
26	VIBLK	VY022378.D	21 May 2025 19:26	SY/MD	Ok

M : Manual Integration

Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QC Batch ID # VY051525

Review By	Mahesh Dadoda	Review On	5/16/2025 11:49:17 AM		
Supervise By	Semsettin Yesilyurt	Supervise On	5/16/2025 11:51:38 AM		
SubDirectory	VY051525	HP Acquire Method	MSVOA_Y	HP Processing Method	82y051525s.m
STD. NAME		STD REF.#			
Tune/Reschk		VP133916			
Initial Calibration Stds		VP133918,VP133919,VP133920,VP133921,VP133922,VP133923			
CCC		VP133925			
Internal Standard/PEM		VP131783			
ICV/I.BLK		VP133924			
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

Sr #	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VY022252.D	15 May 2025 07:52		SY/MD	Ok
2	VSTDIC005	VSTDIC005	VY022253.D	15 May 2025 09:46		SY/MD	Ok,M
3	VSTDIC010	VSTDIC010	VY022254.D	15 May 2025 10:16		SY/MD	Ok,M
4	VSTDIC020	VSTDIC020	VY022255.D	15 May 2025 10:39		SY/MD	Ok,M
5	VSTDIC050	VSTDIC050	VY022256.D	15 May 2025 11:02		SY/MD	Ok,M
6	VSTDIC100	VSTDIC100	VY022257.D	15 May 2025 11:24		SY/MD	Ok,M
7	VSTDIC150	VSTDIC150	VY022258.D	15 May 2025 11:47		SY/MD	Ok,M
8	VIBLK	VIBLK	VY022259.D	15 May 2025 12:34		SY/MD	Ok
9	VSTDICV050	ICVVY051525	VY022260.D	15 May 2025 13:20		SY/MD	Ok,M
10	VY0515SBL01	VY0515SBL01	VY022261.D	15 May 2025 13:44		SY/MD	Ok
11	VY0515SBS01	VY0515SBS01	VY022262.D	15 May 2025 14:07		SY/MD	Ok,M
12	VY0515SBSD01	VY0515SBSD01	VY022263.D	15 May 2025 14:29		SY/MD	Ok,M
13	Q1984-01	OU4-PCS-TC-33-05072	VY022264.D	15 May 2025 15:12	vial-A	SY/MD	Ok
14	Q1984-03	OU4-PCS-TC-34-05072	VY022265.D	15 May 2025 15:35	vial-A	SY/MD	Ok
15	Q1984-05	OU4-PCS-TC-35-05072	VY022266.D	15 May 2025 15:59	vial-A	SY/MD	Ok
16	Q1984-07	OU4-TS-24-050725	VY022267.D	15 May 2025 16:22	vial-A Surrogate fail	SY/MD	ReRun
17	Q1984-09	OU4-TS-25-050725	VY022268.D	15 May 2025 16:46	vial-A Surrogate fail	SY/MD	Not Ok
18	Q1984-11	OU4-TS-26-050725	VY022269.D	15 May 2025 17:09	vial-A Surrogate fail	SY/MD	Not Ok

Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QC Batch ID # VY051525

Review By	Maresh Dadoda	Review On	5/16/2025 11:49:17 AM		
Supervise By	Semsettin Yesilyurt	Supervise On	5/16/2025 11:51:38 AM		
SubDirectory	VY051525	HP Acquire Method	MSVOA_Y	HP Processing Method	82y051525s.m
STD. NAME	STD REF.#				
Tune/Reschk	VP133916				
Initial Calibration Stds	VP133918,VP133919,VP133920,VP133921,VP133922,VP133923				
CCC	VP133925				
Internal Standard/PEM	VP131783				
ICV/I.BLK	VP133924				
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

19	Q1984-13	OU4-TS-27-050725	VY022270.D	15 May 2025 17:33	vial-A Surrogate fail	SY/MD	Not Ok
20	Q1984-15	OU4-TS-28-050725	VY022271.D	15 May 2025 17:56	vial-A Surrogate fail	SY/MD	ReRun
21	Q1982-04	TP-4	VY022272.D	15 May 2025 18:19	vial-A	SY/MD	Ok
22	Q1982-05	TP-5	VY022273.D	15 May 2025 18:43	vial-A	SY/MD	Ok
23	Q1982-06	TP-6	VY022274.D	15 May 2025 19:06	vial-A	SY/MD	Ok
24	VSTDCCC050	VSTDCCC050EC	VY022275.D	15 May 2025 19:52		SY/MD	Ok,M

M : Manual Integration

Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QC Batch ID # VY051925

Review By	Mahesh Dadoda	Review On	5/21/2025 3:42:46 PM		
Supervise By	Semsettin Yesilyurt	Supervise On	5/21/2025 3:54:32 PM		
SubDirectory	VY051925	HP Acquire Method	MSVOA_Y	HP Processing Method	82y051525s.m
STD. NAME		STD REF.#			
Tune/Reschk Initial Calibration Stds		VP133960			
CCC		VP133961,VP133962			
Internal Standard/PEM		VP133934			
ICV/I.BLK					
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

Sr #	Sampleld	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VY022302.D	19 May 2025 07:57		SY/MD	Ok
2	VSTDCCC050	VSTDCCC050	VY022303.D	19 May 2025 08:27		SY/MD	Ok,M
3	VY0519SBL01	VY0519SBL01	VY022304.D	19 May 2025 09:00		SY/MD	Ok
4	VY0519SBS01	VY0519SBS01	VY022305.D	19 May 2025 09:36		SY/MD	Ok,M
5	VY0519SBSD01	VY0519SBSD01	VY022306.D	19 May 2025 09:59		SY/MD	Ok,M
6	Q2055-01	OR-02-051525	VY022307.D	19 May 2025 10:41	vial-B Internal Standard Fail	SY/MD	Ok
7	Q2052-03	TP-B-VOC	VY022308.D	19 May 2025 11:04	vial-B	SY/MD	Ok
8	Q2057-03	MH-L-VOC	VY022309.D	19 May 2025 11:28	vial-B	SY/MD	Ok
9	Q2048-03	L2-WC-1-VOC	VY022310.D	19 May 2025 11:51	vial-B	SY/MD	Ok
10	Q2048-07	L2-WC-2-VOC	VY022311.D	19 May 2025 12:15	vial-B	SY/MD	Ok
11	Q2048-11	L2-WC-3-VOC	VY022312.D	19 May 2025 12:38	vial-B	SY/MD	Ok
12	Q2048-15	L2-WC-4-VOC	VY022313.D	19 May 2025 13:02	vial-B	SY/MD	Ok
13	Q2003-02RE	VOCRE	VY022314.D	19 May 2025 13:25	vial-B, Internal standard fail	SY/MD	Confirms
14	Q2062-03	L1-WC-1-VOC	VY022315.D	19 May 2025 13:49	vial-A	SY/MD	Ok
15	Q2062-07	L1-WC-2-VOC	VY022316.D	19 May 2025 14:12	vial-A	SY/MD	Ok
16	Q2062-11	L1-WC-3-VOC	VY022317.D	19 May 2025 14:35	vial-A	SY/MD	Ok
17	Q2062-15	L1-WC-4-VOC	VY022318.D	19 May 2025 14:59	vial-A	SY/MD	Ok
18	Q2062-19	L1-WC-5-VOC	VY022319.D	19 May 2025 15:22	vial-A Internal Standard Fail	SY/MD	Not Ok

Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QC Batch ID # VY051925

Review By	Mahesh Dadoda	Review On	5/21/2025 3:42:46 PM		
Supervise By	Semsettin Yesilyurt	Supervise On	5/21/2025 3:54:32 PM		
SubDirectory	VY051925	HP Acquire Method	MSVOA_Y	HP Processing Method	82y051525s.m
STD. NAME		STD REF.#			
Tune/Reschk Initial Calibration Stds		VP133960			
CCC		VP133961,VP133962			
Internal Standard/PEM		VP133934			
ICV/I.BLK					
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

19	Q2062-23	L1-WC-6-VOC	VY022320.D	19 May 2025 15:46	vial-A Internal Standard Fail	SY/MD	Not Ok
20	Q2071-03	L1-WC-7-VOC	VY022321.D	19 May 2025 16:09	vial-A	SY/MD	Ok
21	Q2071-07	L1-WC-8-VOC	VY022322.D	19 May 2025 16:33	vial-A	SY/MD	Ok
22	Q2071-11	L1-WC-9-VOC	VY022323.D	19 May 2025 16:56	vial-A Internal Standard Fail	SY/MD	Not Ok
23	Q2071-15	L2-WC-5-VOC	VY022324.D	19 May 2025 17:20	vial-A	SY/MD	Ok
24	Q2021-02	VOC	VY022325.D	19 May 2025 17:43	vial-B	SY/MD	Ok
25	Q2056-01	GVD11	VY022326.D	19 May 2025 18:06	vial-B	SY/MD	Ok
26	VSTDCCC050	VSTDCCC050EC	VY022327.D	19 May 2025 18:52		SY/MD	Ok,M

M : Manual Integration

Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QC Batch ID # VY052025

Review By	Maresh Dadoda	Review On	5/21/2025 3:43:30 PM
Supervise By	Semsettin Yesilyurt	Supervise On	5/23/2025 2:22:55 AM
SubDirectory	VY052025	HP Acquire Method	MSVOA_Y HP Processing Method 82y051525s.m
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	VP133969		
CCC	VP133970,VP133971		
Internal Standard/PEM	VP133934		
ICV/I.BLK			
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr #	Sampleld	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VY022328.D	20 May 2025 08:09		SY/MD	Ok
2	VSTDCCC050	VSTDCCC050	VY022329.D	20 May 2025 08:40		SY/MD	Ok,M
3	VY0520SBL01	VY0520SBL01	VY022330.D	20 May 2025 09:48		SY/MD	Ok
4	VY0520SBS01	VY0520SBS01	VY022331.D	20 May 2025 10:21		SY/MD	Ok,M
5	VY0520SBSD01	VY0520SBSD01	VY022332.D	20 May 2025 10:43		SY/MD	Ok,M
6	Q2062-19	L1-WC-5-VOC	VY022333.D	20 May 2025 11:28	vial-B	SY/MD	Ok
7	Q2062-23	L1-WC-6-VOC	VY022334.D	20 May 2025 11:51	vial-B	SY/MD	Ok
8	Q2071-11	L1-WC-9-VOC	VY022335.D	20 May 2025 12:15	vial-B	SY/MD	Ok
9	Q2056-02	GVD12	VY022336.D	20 May 2025 12:38	vial-B	SY/MD	Ok
10	Q2056-03	GVD13	VY022337.D	20 May 2025 13:01	vial-B	SY/MD	Ok
11	Q2056-04	GVD14	VY022338.D	20 May 2025 13:25	vial-A	SY/MD	Ok
12	Q2056-05	GVD15	VY022339.D	20 May 2025 13:48	vial-A Internal standard fail	SY/MD	Not Ok
13	Q2080-02	PL-HRH-VOC-01	VY022340.D	20 May 2025 14:12	vial-A	SY/MD	Ok
14	Q2080-08	PL-HRH-VOC-02	VY022341.D	20 May 2025 14:35	vial-A	SY/MD	Ok
15	Q2032-02	TP-29	VY022342.D	20 May 2025 14:59	vial-A	SY/MD	Ok
16	Q2075-01	SS-10	VY022343.D	20 May 2025 15:22	vial-A	SY/MD	Ok
17	Q2075-02	SS-910	VY022344.D	20 May 2025 15:45	vial-A	SY/MD	Ok
18	Q2075-03	SS-11	VY022345.D	20 May 2025 16:09	vial-A	SY/MD	Ok

Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QC Batch ID # VY052025

Review By	Mahesh Dadoda	Review On	5/21/2025 3:43:30 PM		
Supervise By	Semsettin Yesilyurt	Supervise On	5/23/2025 2:22:55 AM		
SubDirectory	VY052025	HP Acquire Method	MSVOA_Y	HP Processing Method	82y051525s.m
STD. NAME	STD REF.#				
Tune/Reschk Initial Calibration Stds	VP133969				
CCC	VP133970,VP133971				
Internal Standard/PEM	VP133934				
ICV/I.BLK					
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

19	Q2084-02	OR-640-VOC-66	VY022346.D	20 May 2025 16:32	vial-A	SY/MD	Ok
20	Q2032-01	TP-11	VY022347.D	20 May 2025 16:56	vial-A Surrogate fail;Need MeOH	SY/MD	Dilution
21	Q2032-05MS	TP-24MS	VY022348.D	20 May 2025 17:19	vial-B	SY/MD	Ok,M
22	Q2032-06MSD	TP-24MSD	VY022349.D	20 May 2025 17:41	vial-B Internal standard fail	SY/MD	ReRun
23	Q2075-04MS	SS-11MS	VY022350.D	20 May 2025 18:04	vial-A	SY/MD	Ok,M
24	Q2075-05MSD	SS-11MSD	VY022351.D	20 May 2025 18:26	vial-A	SY/MD	Ok,M
25	VSTDCCC050	VSTDCCC050EC	VY022352.D	20 May 2025 19:34	ENDCCC failed for com.#06	SY/MD	Ok,M

M : Manual Integration

Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QC Batch ID # VY052125

Review By	Mahesh Dadoda	Review On	5/22/2025 8:21:53 AM		
Supervise By	Semsettin Yesilyurt	Supervise On	5/22/2025 8:26:36 AM		
SubDirectory	VY052125	HP Acquire Method	MSVOA_Y	HP Processing Method	82y051525s.m
STD. NAME		STD REF.#			
Tune/Reschk Initial Calibration Stds		VP133975			
CCC		VP133976,VP133977			
Internal Standard/PEM		VP133934			
ICV/I.BLK					
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

Sr #	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VY022353.D	21 May 2025 09:02		SY/MD	Ok
2	VSTDCCC050	VSTDCCC050	VY022354.D	21 May 2025 09:33		SY/MD	Ok,M
3	VY0521SBL01	VY0521SBL01	VY022355.D	21 May 2025 10:05		SY/MD	Ok
4	VY0521SBS01	VY0521SBS01	VY022356.D	21 May 2025 10:35		SY/MD	Ok,M
5	VY0521SBSD01	VY0521SBSD01	VY022357.D	21 May 2025 10:58		SY/MD	Ok,M
6	Q2056-05	GVD15	VY022358.D	21 May 2025 11:37	vial-B	SY/MD	Ok
7	Q2071-11	L1-WC-9-VOC	VY022359.D	21 May 2025 12:00	Already Analyzed	SY/MD	Not Ok
8	Q2097-01	ETGI-357	VY022360.D	21 May 2025 12:24	vial-A	SY/MD	Ok
9	Q2097-03	RBR200044	VY022361.D	21 May 2025 12:47	vial-A	SY/MD	Ok
10	Q2097-05	RBR251675	VY022362.D	21 May 2025 13:11	vial-A	SY/MD	Ok
11	Q2097-07	VNJ-244	VY022363.D	21 May 2025 13:34	vial-A	SY/MD	Ok
12	Q2097-09	ETGI-290	VY022364.D	21 May 2025 13:57	vial-A	SY/MD	Ok
13	Q2097-11	RT3419	VY022365.D	21 May 2025 14:21	vial-A Internal standard fail	SY/MD	ReRun
14	Q2097-13	RBR251372	VY022366.D	21 May 2025 14:44	vial-A	SY/MD	Ok
15	Q2097-15	72-12013	VY022367.D	21 May 2025 15:08	vial-A	SY/MD	Ok
16	Q2097-17	RT-3888	VY022368.D	21 May 2025 15:31	vial-A	SY/MD	Ok
17	Q2095-03	WCS-TP1-VOC	VY022369.D	21 May 2025 15:55	vial-A	SY/MD	Ok
18	Q2095-07	WCS-TP2-VOC	VY022370.D	21 May 2025 16:18	vial-A	SY/MD	Ok

Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QC Batch ID # VY052125

Review By	Maresh Dadoda	Review On	5/22/2025 8:21:53 AM		
Supervise By	Semsettin Yesilyurt	Supervise On	5/22/2025 8:26:36 AM		
SubDirectory	VY052125	HP Acquire Method	MSVOA_Y	HP Processing Method	82y051525s.m
STD. NAME		STD REF.#			
Tune/Reschk Initial Calibration Stds		VP133975			
CCC		VP133976,VP133977			
Internal Standard/PEM		VP133934			
ICV/I.BLK					
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

19	Q2093-01	SOIL-DRUM	VY022371.D	21 May 2025 16:42	vial-A	SY/MD	Ok
20	Q2092-01	VNJ-202	VY022372.D	21 May 2025 17:05	vial-A	SY/MD	Ok
21	Q2087-01	NB-07-05202025	VY022373.D	21 May 2025 17:28	vial-A	SY/MD	Ok
22	Q2087-03	NB-08-05202025	VY022374.D	21 May 2025 17:52	vial-A Internal standard fail; Surrogate fail	SY/MD	ReRun
23	Q2101-03	TP-1-MHE-VOC	VY022375.D	21 May 2025 18:15	vial-A Internal standard fail	SY/MD	ReRun
24	Q2104-01	TR-06-052125	VY022376.D	21 May 2025 18:39	vial-A Internal standard fail; Surrogate fail	SY/MD	ReRun
25	Q2102-01	LAW-25-0077	VY022377.D	21 May 2025 19:02	vial-A Internal standard fail	SY/MD	ReRun
26	VIBLK	VIBLK	VY022378.D	21 May 2025 19:26		SY/MD	Ok

M : Manual Integration

LAB CHRONICLE

OrderID:	Q2056	OrderDate:	5/15/2025 1:12:00 PM
Client:	G Environmental	Project:	Dover
Contact:	Gary Landis	Location:	L41,VOA Ref. #2 Soil

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q2056-01	GVD11	SOIL	VOCMS Group1	8260D	05/15/25		05/19/25	05/15/25
Q2056-02	GVD12	SOIL	VOCMS Group1	8260D	05/15/25		05/20/25	05/15/25
Q2056-03	GVD13	SOIL	VOCMS Group1	8260D	05/15/25		05/20/25	05/15/25
Q2056-04	GVD14	SOIL	VOCMS Group1	8260D	05/15/25		05/20/25	05/15/25
Q2056-05	GVD15	SOIL	VOCMS Group1	8260D	05/15/25		05/21/25	05/15/25



SHIPPING DOCUMENTS

CLIENT INFORMATION

CLIENT PROJECT INFORMATION

CLIENT BILLING INFORMATION

REPORT TO BE SENT TO:

COMPANY: Environmental
ADDRESS: 8 CARRAN
CITY: Succasunna STATE: NJ ZIP: 07876
ATTENTION: Gary
PHONE: FAX:

PROJECT NAME: ~~GRAB~~ DOVER
PROJECT NO.: LOCATION:
PROJECT MANAGER: BL
e-mail:
PHONE: FAX:

BILL TO: Environmental PO#:
ADDRESS: 8 CARRAN
CITY: Succasunna STATE: NJ ZIP:
ATTENTION: PHONE:
ANALYSIS

DATA TURNAROUND INFORMATION

DATA DELIVERABLE INFORMATION

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

☐ Level 1 (Results Only) ☐ Level 4 (QC + Full Raw Data)
☐ Level 2 (Results + QC) ☒ NJ Reduced ☐ US EPA GLP
☐ Level 3 (Results + QC) ☐ NYS ASPA ☐ NYS ASPA
+ Raw Data ☐ Other SES Excellent
☒ EDD FORMAT hasite Nider

1 2 3 4 5 6 7 8 9

ALLIANCE
SAMPLE
ID

PROJECT
SAMPLE IDENTIFICATION

SAMPLE
MATRIX

SAMPLE
TYPE
COMP GRAB

SAMPLE
COLLECTION
DATE TIME

OF BOTTLES

PRESERVATIVES

COMMENTS

← Specify Preservatives
A-HCl D-NaOH
B-HNO3 E-ICE
C-H2SO4 F-OTHER

1	2	3	4	5	6	7	8	9	
1.	GVD11	Sal	X	5/15/25	1100	4	X		
2.	GVD12				1120				
3.	GVD13				1140				
4.	GVD14				1205				
5.	GVD15	Sal	X	5/15/25	1215	4	X		
6.									
7.									
8.									
9.									
10.									

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

RELINQUISHED BY SAMPLER: 1. <u>[Signature]</u>	DATE/TIME: <u>5/15/25</u>	RECEIVED BY: 1. <u>[Signature]</u>	Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP <u>2.3 °C</u>
RELINQUISHED BY SAMPLER: 2.	DATE/TIME:	RECEIVED BY: 2.	Comments: <u>JP Center 1</u>
RELINQUISHED BY SAMPLER: 3.	DATE/TIME:	RECEIVED BY: 3.	Page ____ of ____ CLIENT: ☐ Hand Delivered ☐ Other Shipment Complete ☐ YES ☐ NO

Laboratory Certification

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

LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q2056	GENV01	Order Date : 5/15/2025 1:12:00 PM	Project Mgr :
Client Name : G Environmental		Project Name : Dover	Report Type : NJ Reduced
Client Contact : Gary Landis		Receive DateTime : 5/15/2025 1:09:00 PM	EDD Type : Excel NJ
Invoice Name : G Environmental		Purchase Order :	Hard Copy Date :
Invoice Contact : Gary Landis			Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
Q2056-01	GVD11	Solid	05/15/2025	11:00					
					VOCMS Group1		8260D	10 Bus. Days	
Q2056-02	GVD12	Solid	05/15/2025	11:20					
					VOCMS Group1		8260D	10 Bus. Days	
Q2056-03	GVD13	Solid	05/15/2025	11:40					
					VOCMS Group1		8260D	10 Bus. Days	
Q2056-04	GVD14	Solid	05/15/2025	12:05					
					VOCMS Group1		8260D	10 Bus. Days	
Q2056-05	GVD15	Solid	05/15/2025	12:15					
					VOCMS Group1		8260D	10 Bus. Days	

Relinquished By : OP

Date / Time : 5/15/25 1400

Received By : TC

Date / Time : 5/15/25 1400

Storage Area : VOA Refridgerator Room