

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\U070824\
 Data File : U059877.D
 Acq On : 08 Jul 2024 12:44
 Operator : MD/SY
 Sample : P3137-18
 Misc : 25.0mL/MSVOA_U/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Jul 09 02:35:35 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMUTR061724WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Tue Jul 09 02:28:04 2024
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	6.245	114	167262	5.000	ug/L	0.00
28) Chlorobenzene-d5	9.412	117	174343	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.807	152	95904	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.596	65	53196	4.574	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	91.400%
7) Chloroethane-d5	1.908	69	39268	3.509	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	70.200%
11) 1,1-Dichloroethene-d2	2.560	65	16438	3.407	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	68.200%
20) 2-Butanone-d5	4.618	46	127056	53.034	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	106.060%
24) Chloroform-d	5.055	84	91218	3.821	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	76.400%
26) 1,2-Dichloroethane-d4	5.695	65	48630	4.229	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	84.600%
32) Benzene-d6	5.721	84	179283	3.736	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	74.800%
36) 1,2-Dichloropropane-d6	6.682	67	61194	4.162	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	83.200%
41) Toluene-d8	7.891	98	169098	3.791	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	75.800%
43) trans-1,3-Dichloroprop...	8.174	79	23400	5.083	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	101.600%
46) 2-Hexanone-d5	8.624	63	134951	70.546	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	141.100%#
56) 1,1,2,2-Tetrachloroeth...	10.750	84	61171	5.035	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	100.800%
66) 1,2-Dichlorobenzene-d4	12.187	152	75671	4.433	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	88.600%
Target Compounds						
					Qvalue	
5) Vinyl chloride	1.599	62	1368847	81.236	ug/L	99
12) 1,1-Dichloroethene	2.570	96	3616	0.305	ug/L #	1
13) Acetone	2.628	43	41987	27.017	ug/L	90
15) Methyl Acetate	3.107	43	3671	0.895	ug/L #	56
18) trans-1,2-Dichloroethene	3.345	96	59271	4.804	ug/L	87
19) 1,1-Dichloroethane	3.859	63	1481661	65.127	ug/L	98
22) cis-1,2-Dichloroethene	4.657	96	673230	49.508	ug/L	94
30) Cyclohexane	5.380	56	2773	0.156	ug/L	97
33) Benzene	5.769	78	91241	1.723	ug/L	100
34) Trichloroethene	6.534	95	208647	14.552	ug/L	97
35) Methylcyclohexane	6.756	83	2504	0.123	ug/L	86
38) Bromodichloromethane	7.155	83	2586	0.151	ug/L #	1
39) cis-1,3-Dichloropropene	7.570	75	35117	1.874	ug/L #	59
40) 4-Methyl-2-pentanone	7.705	43	41954	6.608	ug/L #	45
42) Toluene	7.965	91	57292	1.022	ug/L	96
44) trans-1,3-Dichloropropene	8.306	75	123626	8.220	ug/L	86
45) 1,1,2-Trichloroethane	8.393	97	5222	0.517	ug/L	95
48) 2-Hexanone	8.624	43	19478	4.299	ug/L #	36
52) Ethylbenzene	9.566	91	71961	1.252	ug/L	96

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

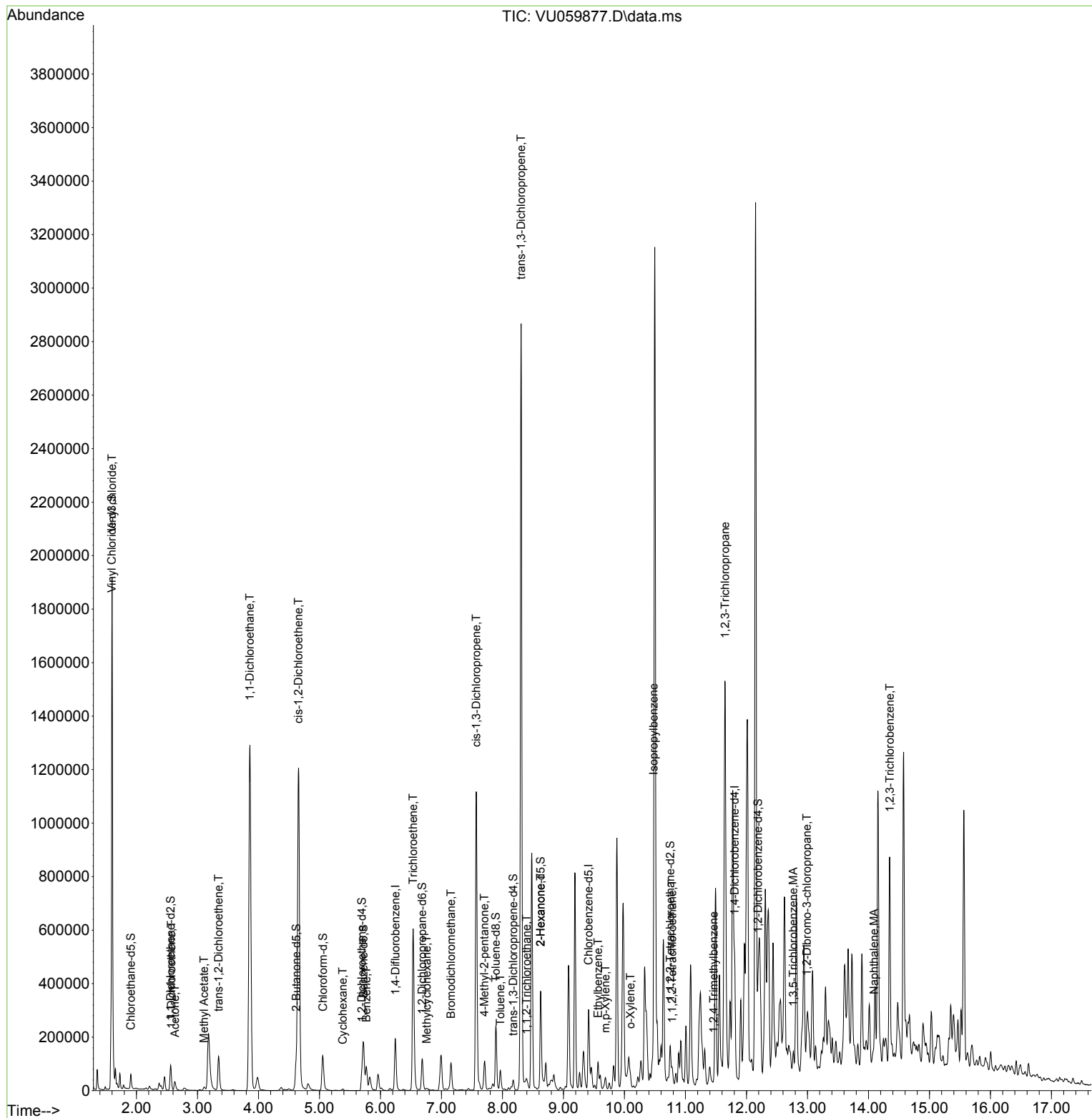
53) m,p-Xylene	9.689	106	11030	0.499	ug/L	81
54) o-Xylene	10.097	106	8758	0.418	ug/L	89
57) 1,1,2,2-Tetrachloroethane	10.782	83	4646	0.379	ug/L #	85
60) Isopropylbenzene	10.480	105	12019	0.203	ug/L #	1
61) 1,2,3-Trichloropropane	11.650	75	68434	7.722	ug/L	92
63) 1,2,4-Trimethylbenzene	11.463	105	9770	0.218	ug/L	93
68) 1,2-Dibromo-3-chloropr...	12.991	75	8082	4.675	ug/L #	64
69) 1,3,5-Trichlorobenzene	12.769	180	6092	0.273	ug/L #	1
71) Naphthalene	14.090	128	4680	0.191	ug/L #	1
72) 1,2,3-Trichlorobenzene	14.348	180	91579	5.764	ug/L #	15

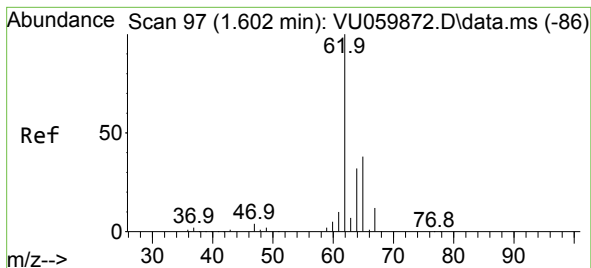
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#5

Vinyl chloride

Concen: 81.236 ug/L

RT: 1.599 min Scan# 9

Delta R.T. -0.003 min

Lab File: VU059877.D

Acq: 08 Jul 2024 12:44

Instrument :

MSVOA_U

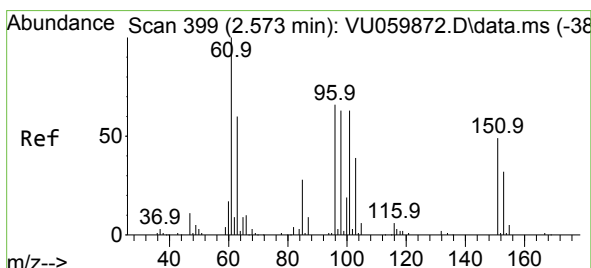
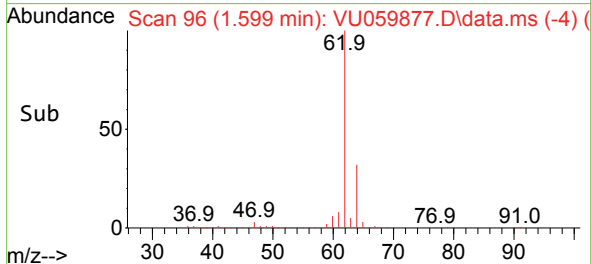
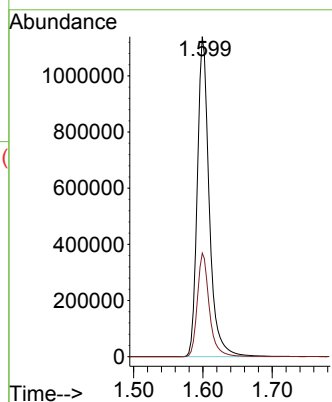
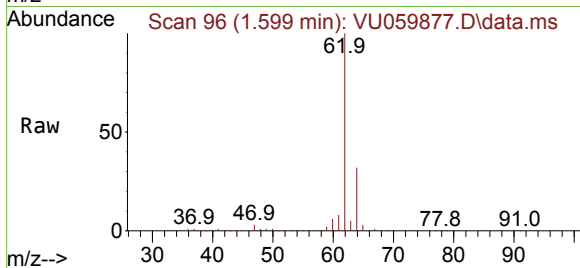
ClientSampleId :

Tgt Ion: 62 Resp: 1368847

Ion Ratio Lower Upper

62 100

64 32.3 23.1 42.9



#12

1,1-Dichloroethene

Concen: 0.305 ug/L

RT: 2.570 min Scan# 398

Delta R.T. -0.003 min

Lab File: VU059877.D

Acq: 08 Jul 2024 12:44

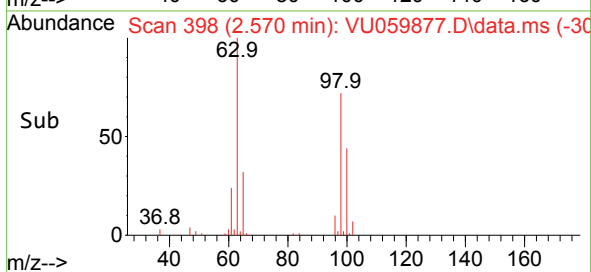
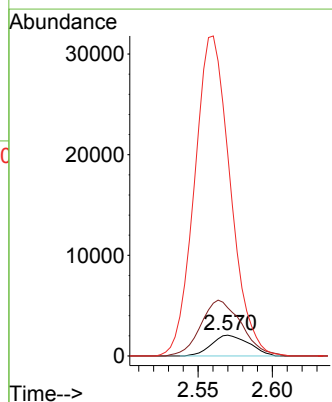
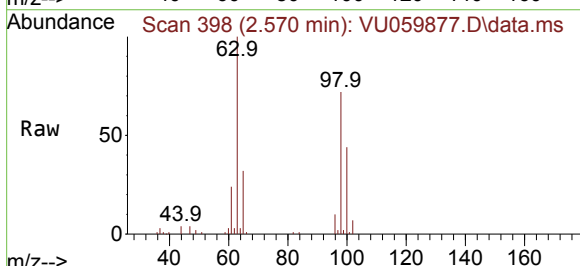
Tgt Ion: 96 Resp: 3616

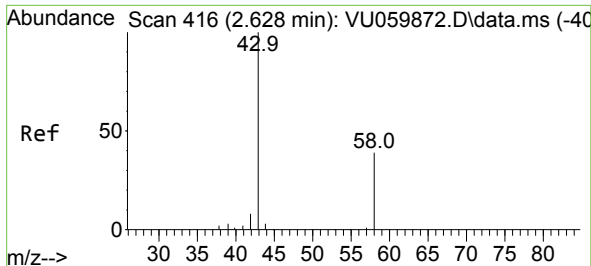
Ion Ratio Lower Upper

96 100

61 231.7 122.9 228.3#

63 973.1 80.4 149.4#





#13

Acetone

Concen: 27.017 ug/L

RT: 2.628 min Scan# 41

Delta R.T. 0.000 min

Lab File: VU059877.D

Acq: 08 Jul 2024 12:44

Instrument :

MSVOA_U

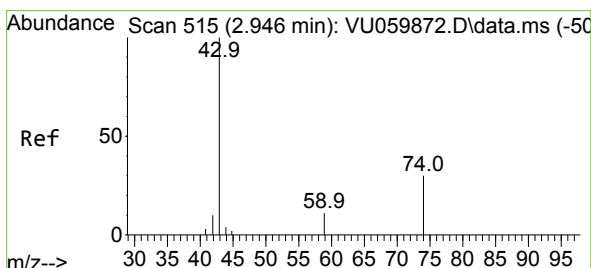
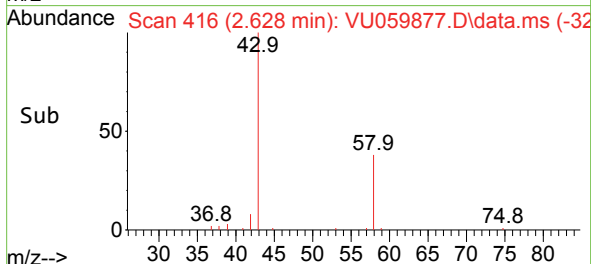
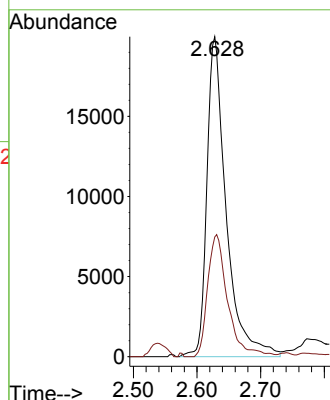
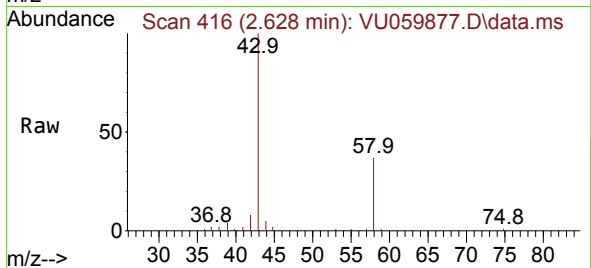
ClientSampleId :

Tgt Ion: 43 Resp: 41987

Ion Ratio Lower Upper

43 100

58 39.7 0.0 68.0



#15

Methyl Acetate

Concen: 0.895 ug/L

RT: 3.107 min Scan# 565

Delta R.T. 0.161 min

Lab File: VU059877.D

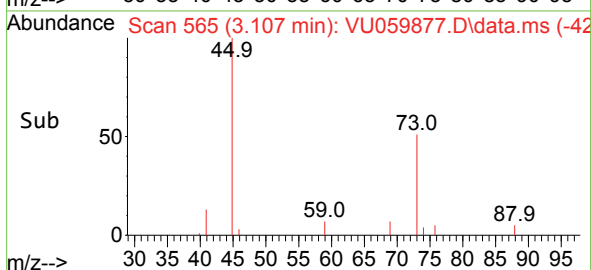
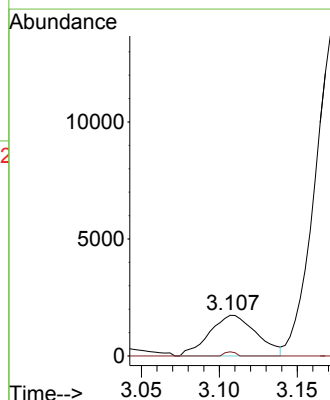
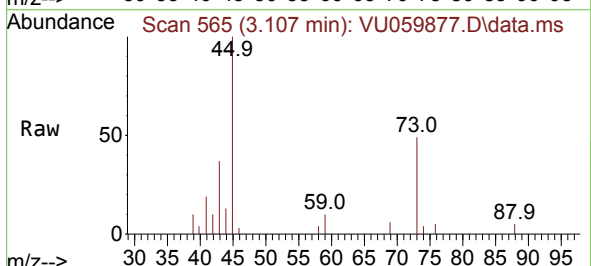
Acq: 08 Jul 2024 12:44

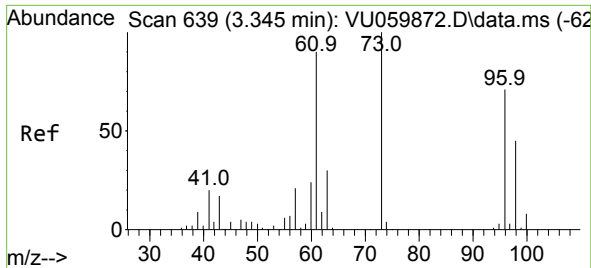
Tgt Ion: 43 Resp: 3671

Ion Ratio Lower Upper

43 100

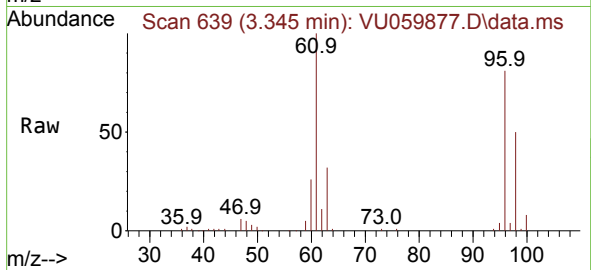
74 2.4 19.2 28.8#





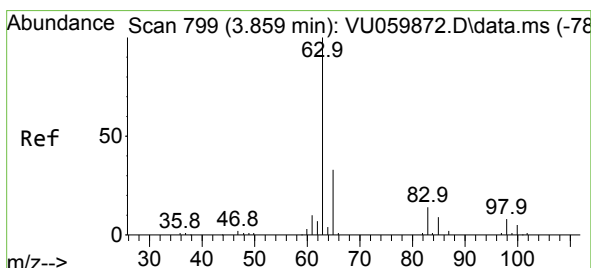
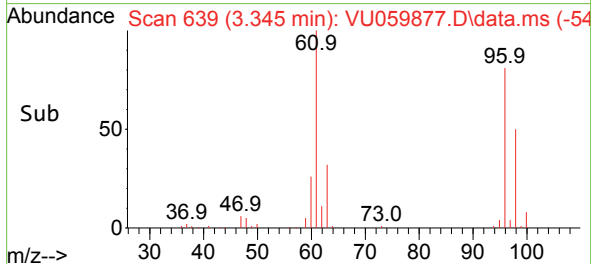
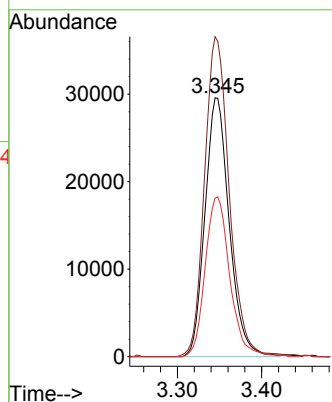
#18
trans-1,2-Dichloroethene
Concen: 4.804 ug/L
RT: 3.345 min Scan# 618
Delta R.T. 0.000 min
Lab File: VU059877.D
Acq: 08 Jul 2024 12:44

Instrument :
MSVOA_U
ClientSampleId :



Tgt Ion: 96 Resp: 59271

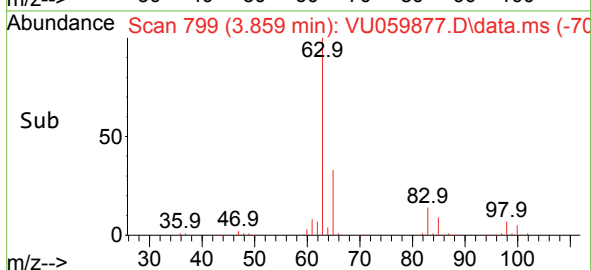
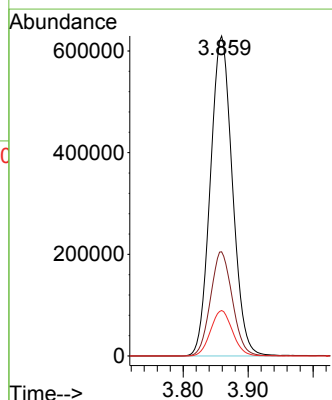
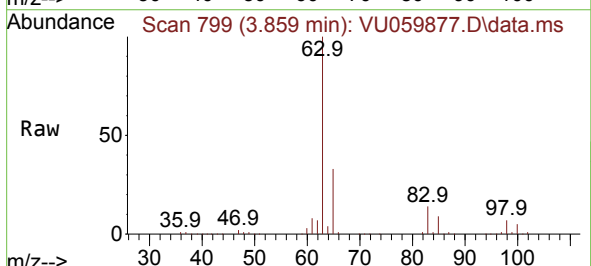
Ion	Ratio	Lower	Upper
96	100		
61	123.6	101.8	189.0
98	61.2	43.3	80.5

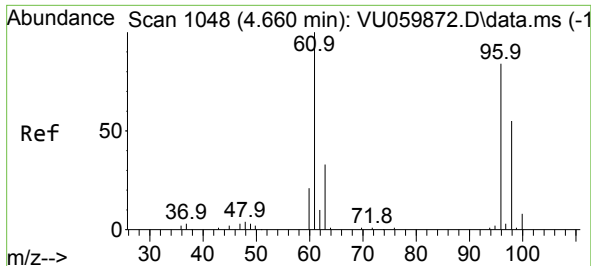


#19
1,1-Dichloroethane
Concen: 65.127 ug/L
RT: 3.859 min Scan# 799
Delta R.T. 0.000 min
Lab File: VU059877.D
Acq: 08 Jul 2024 12:44

Tgt Ion: 63 Resp: 1481661

Ion	Ratio	Lower	Upper
63	100		
65	32.6	21.8	40.6
83	14.2	9.9	18.5





#22

cis-1,2-Dichloroethene

Concen: 49.508 ug/L

RT: 4.657 min Scan# 1047

Delta R.T. -0.003 min

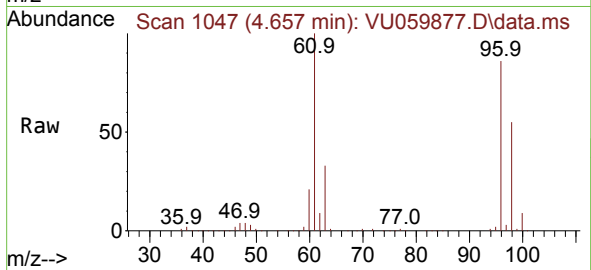
Lab File: VU059877.D

Acq: 08 Jul 2024 12:44

Instrument :

MSVOA_U

ClientSampleId :



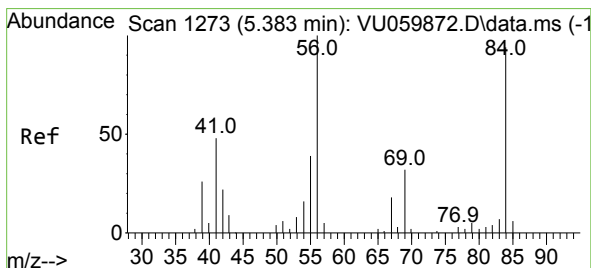
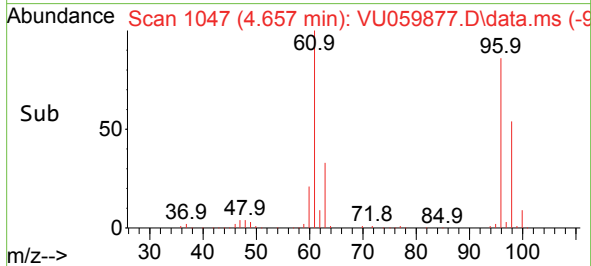
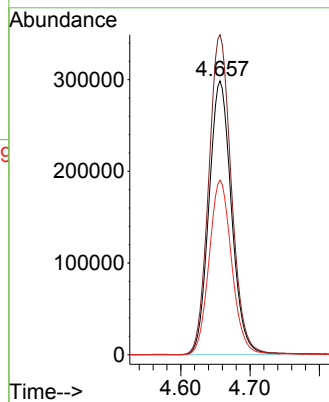
Tgt Ion: 96 Resp: 673230

Ion Ratio Lower Upper

96 100

61 116.9 87.4 162.2

98 63.8 42.3 78.5



#30

Cyclohexane

Concen: 0.156 ug/L

RT: 5.380 min Scan# 1272

Delta R.T. -0.003 min

Lab File: VU059877.D

Acq: 08 Jul 2024 12:44

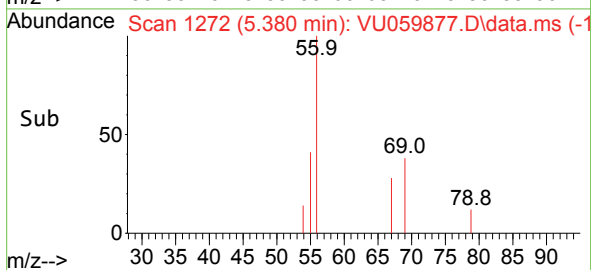
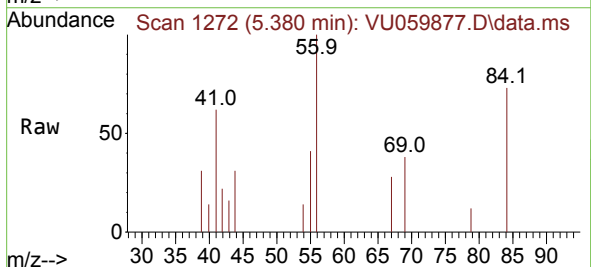
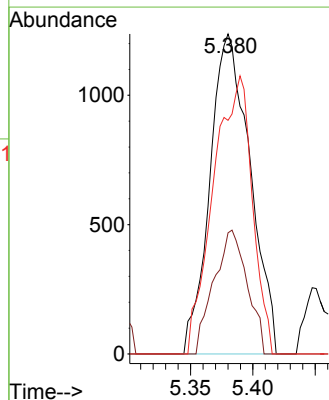
Tgt Ion: 56 Resp: 2773

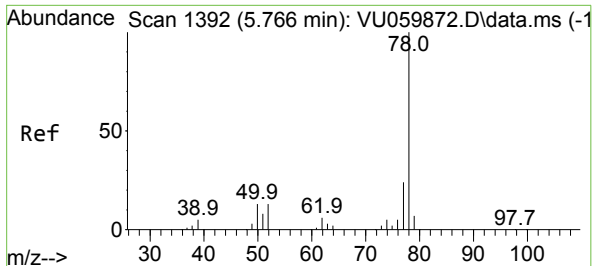
Ion Ratio Lower Upper

56 100

69 32.1 24.8 37.2

84 83.9 69.8 104.8

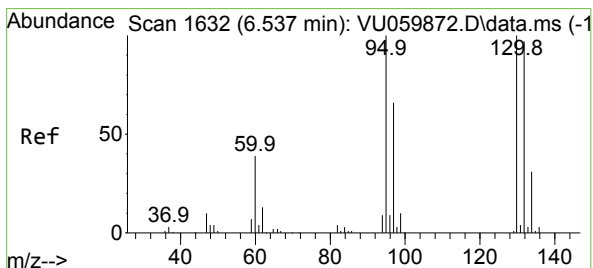
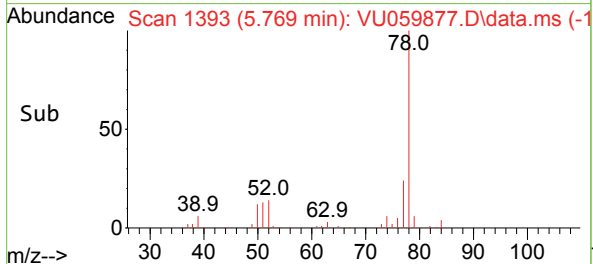
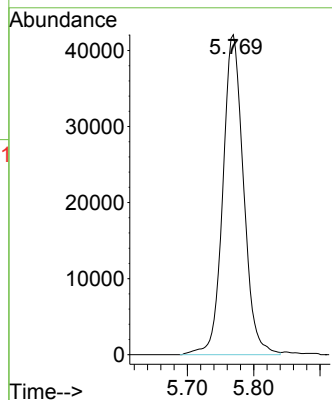
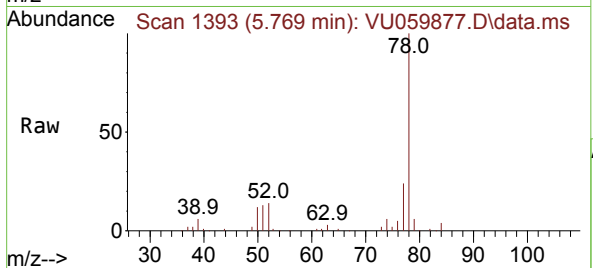




#33
Benzene
Concen: 1.723 ug/L
RT: 5.769 min Scan# 11
Delta R.T. 0.003 min
Lab File: VU059877.D
Acq: 08 Jul 2024 12:44

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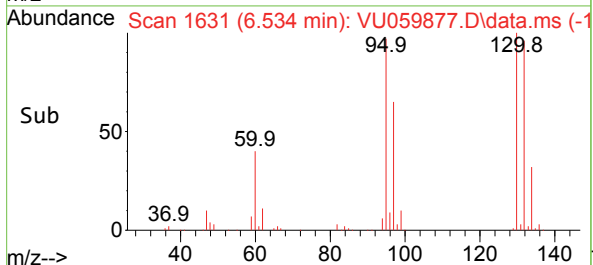
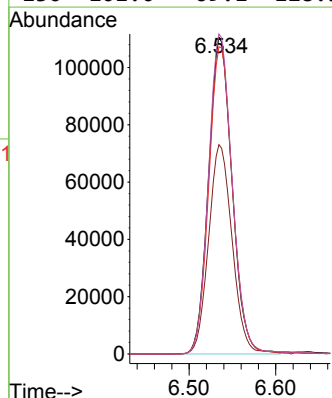
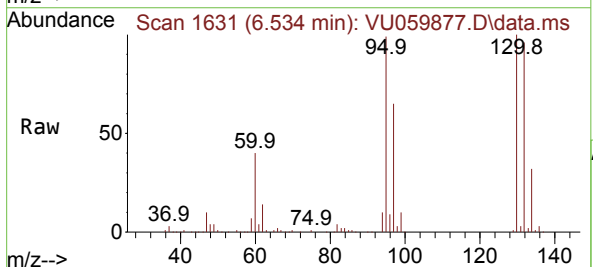
Tgt Ion: 78 Resp: 91241

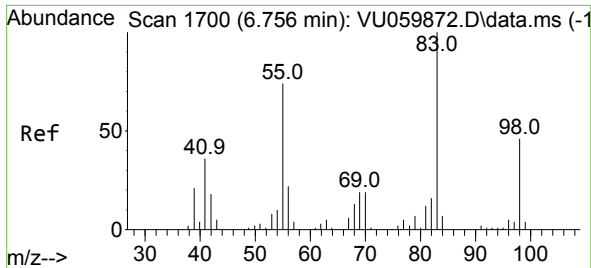


#34
Trichloroethene
Concen: 14.552 ug/L
RT: 6.534 min Scan# 1631
Delta R.T. -0.003 min
Lab File: VU059877.D
Acq: 08 Jul 2024 12:44

Tgt Ion: 95 Resp: 208647

Ion	Ratio	Lower	Upper
95	100		
97	66.1	45.3	84.1
132	96.9	64.0	119.0
130	101.0	69.1	128.3

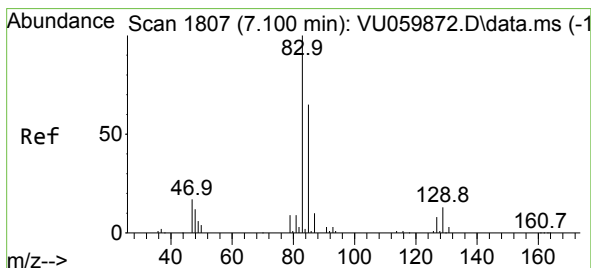
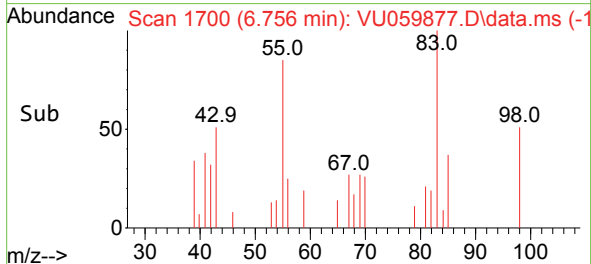
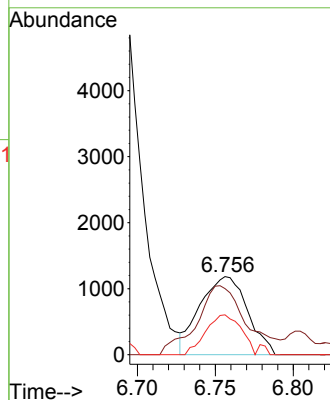
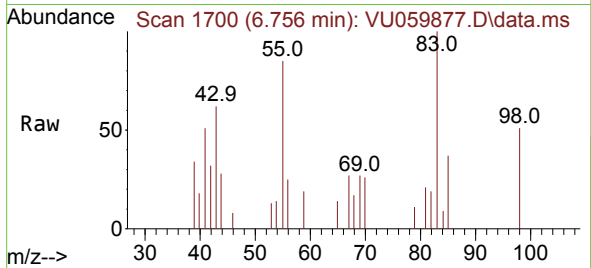




#35
Methylcyclohexane
Concen: 0.123 ug/L
RT: 6.756 min Scan# 11
Delta R.T. 0.000 min
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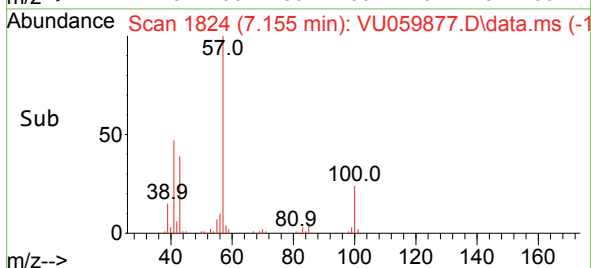
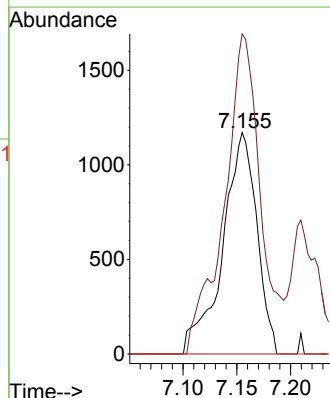
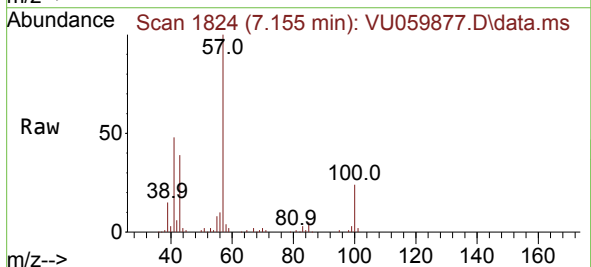
Instrument :
MSVOA_U
ClientSampleId :

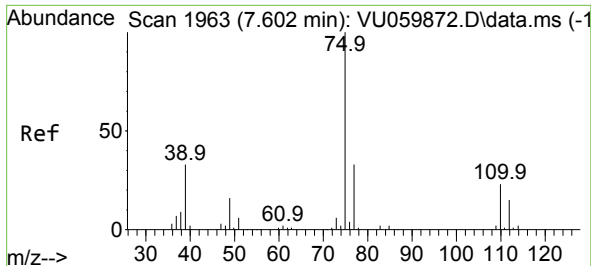
Tgt Ion: 83 Resp: 2504
Ion Ratio Lower Upper
83 100
55 92.8 62.7 94.1
98 38.0 35.4 53.0



#38
Bromodichloromethane
Concen: 0.151 ug/L
RT: 7.155 min Scan# 1824
Delta R.T. 0.055 min
Lab File: VU059877.D
Acq: 08 Jul 2024 12:44

Tgt Ion: 83 Resp: 2586
Ion Ratio Lower Upper
83 100
85 144.5 42.7 79.3#
127 0.0 6.1 9.1#





#39

cis-1,3-Dichloropropene

Concen: 1.874 ug/L

RT: 7.570 min Scan# 1953

Delta R.T. -0.032 min

Lab File: VU059877.D

Acq: 08 Jul 2024 12:44

Instrument :

MSVOA_U

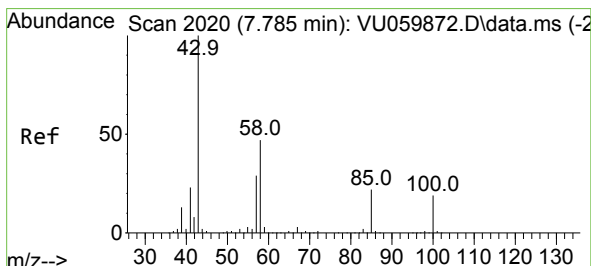
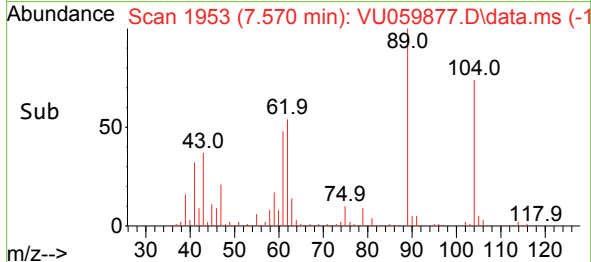
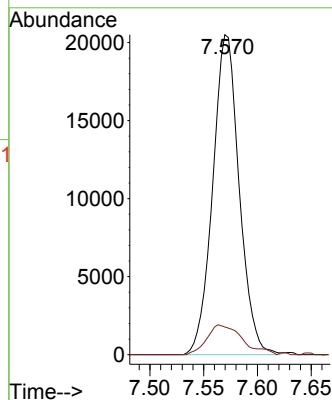
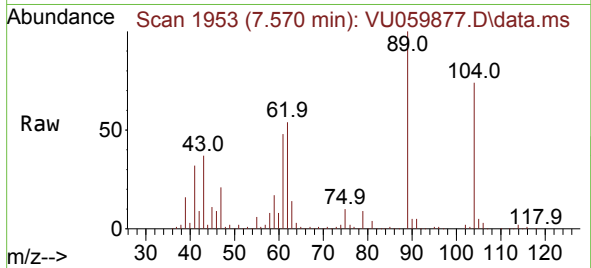
ClientSampleId :

Tgt Ion: 75 Resp: 35117

Ion Ratio Lower Upper

75 100

77 8.6 22.0 40.8#



#40

4-Methyl-2-pentanone

Concen: 6.608 ug/L

RT: 7.705 min Scan# 1995

Delta R.T. -0.080 min

Lab File: VU059877.D

Acq: 08 Jul 2024 12:44

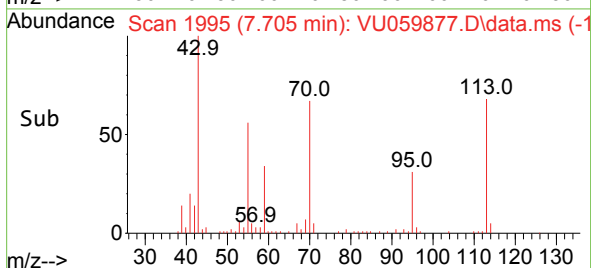
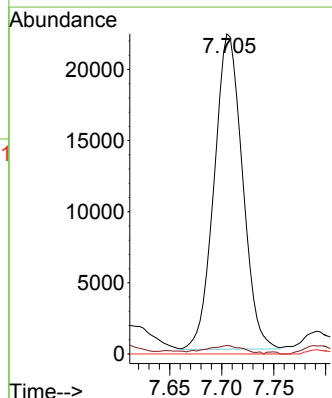
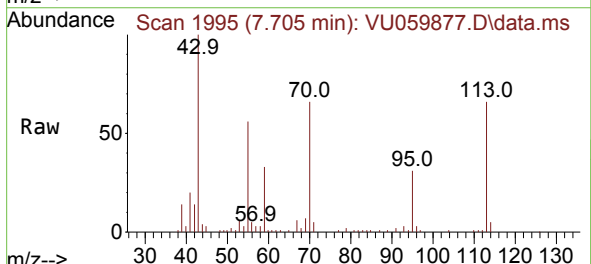
Tgt Ion: 43 Resp: 41954

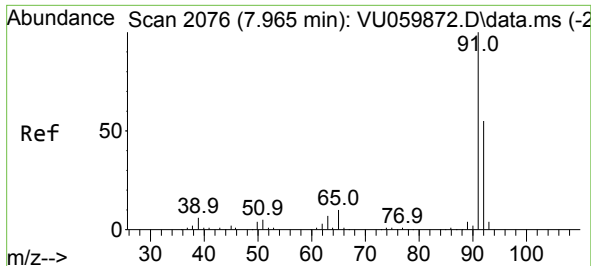
Ion Ratio Lower Upper

43 100

58 3.6 34.0 51.0#

100 0.0 12.1 18.1#





#42

Toluene

Concen: 1.022 ug/L

RT: 7.965 min Scan# 2076

Delta R.T. 0.000 min

Lab File: VU059877.D

Acq: 08 Jul 2024 12:44

Instrument :

MSVOA_U

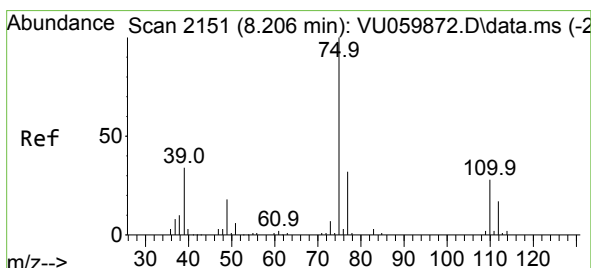
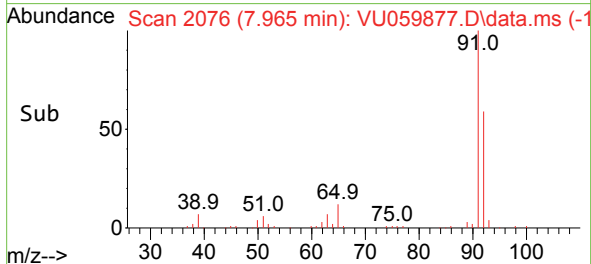
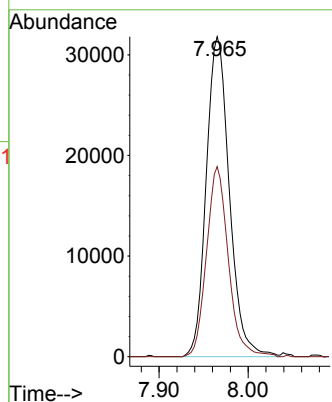
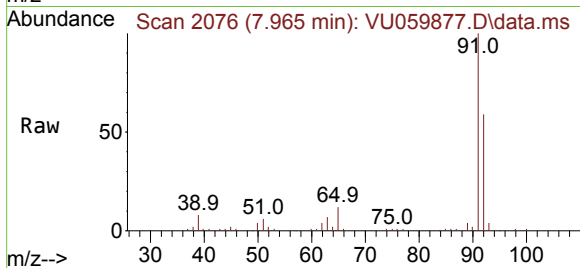
ClientSampleId :

Tgt Ion: 91 Resp: 57292

Ion Ratio Lower Upper

91 100

92 59.4 39.7 73.7



#44

trans-1,3-Dichloropropene

Concen: 8.220 ug/L

RT: 8.306 min Scan# 2182

Delta R.T. 0.100 min

Lab File: VU059877.D

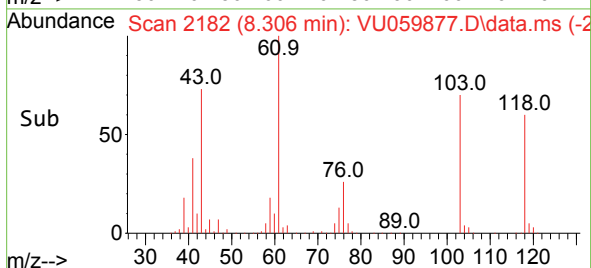
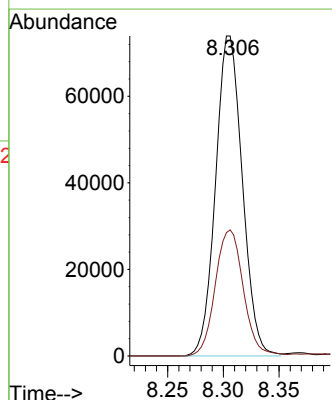
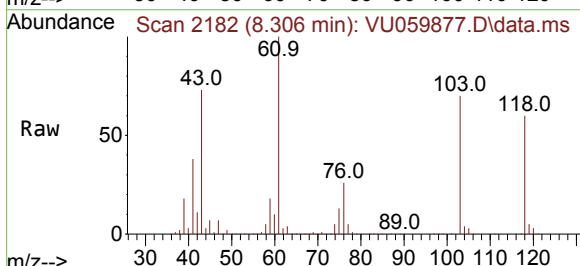
Acq: 08 Jul 2024 12:44

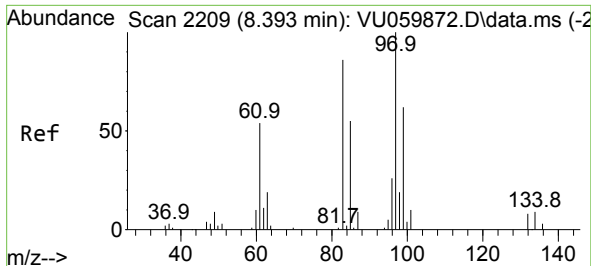
Tgt Ion: 75 Resp: 123626

Ion Ratio Lower Upper

75 100

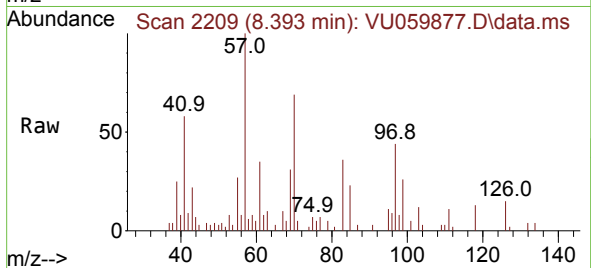
77 39.4 22.0 41.0





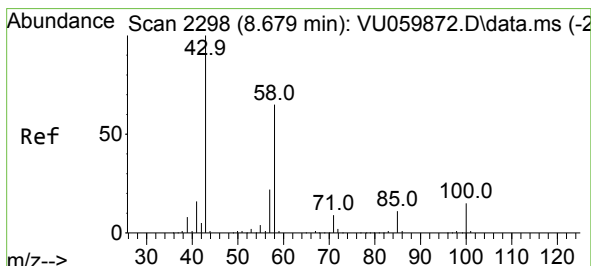
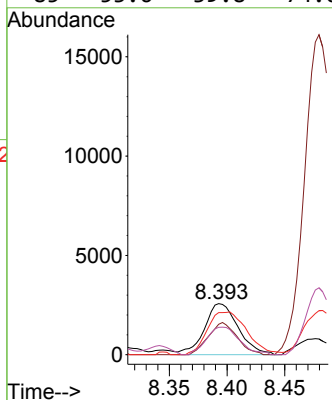
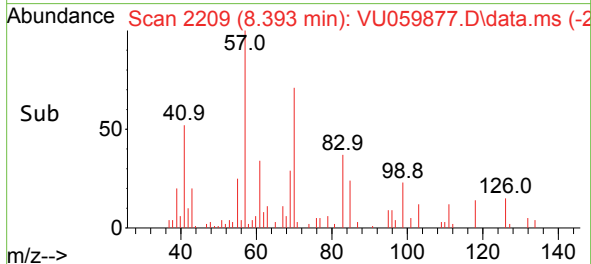
#45
1,1,2-Trichloroethane
Concen: 0.517 ug/L
RT: 8.393 min Scan# 21
Delta R.T. 0.000 min
Lab File: VU059877.D
Acq: 08 Jul 2024 12:44

Instrument :
MSVOA_U
ClientSampleId :

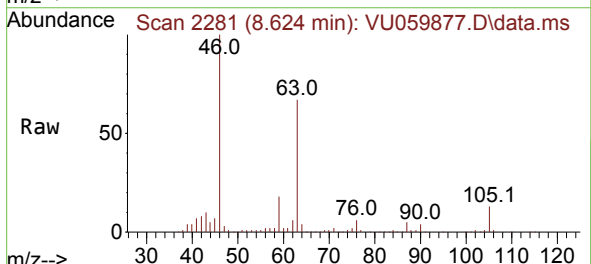


Tgt Ion: 97 Resp: 5222

Ion	Ratio	Lower	Upper
97	100		
99	59.8	43.3	80.3
83	82.5	62.3	115.7
85	53.6	39.8	74.0

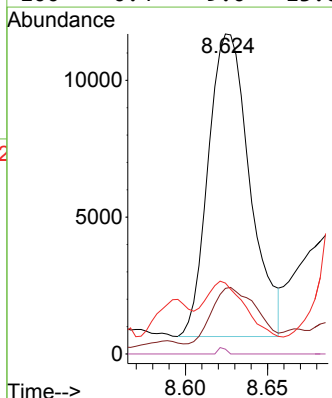
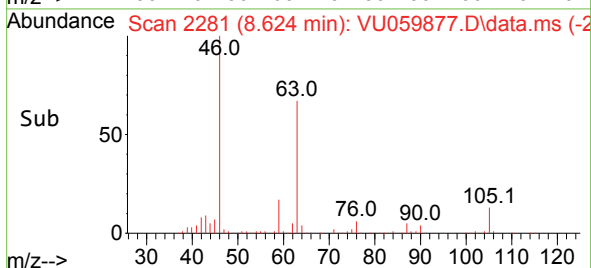


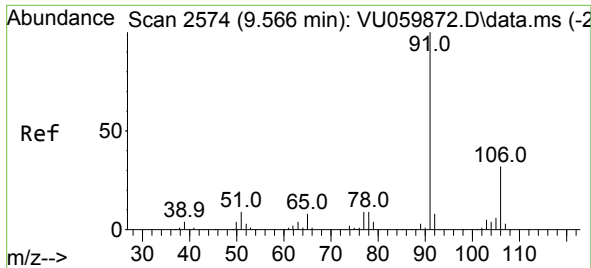
#48
2-Hexanone
Concen: 4.299 ug/L
RT: 8.624 min Scan# 2281
Delta R.T. -0.055 min
Lab File: VU059877.D
Acq: 08 Jul 2024 12:44



Tgt Ion: 43 Resp: 19478

Ion	Ratio	Lower	Upper
43	100		
58	0.0	46.1	69.1#
57	0.0	15.5	23.3#
100	0.4	9.0	13.6#

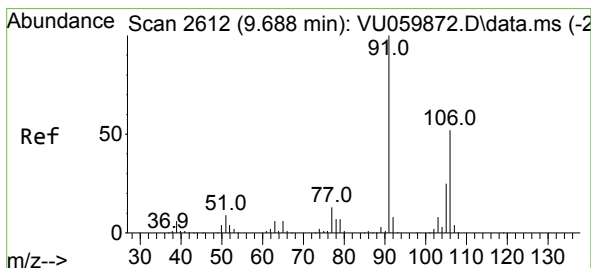
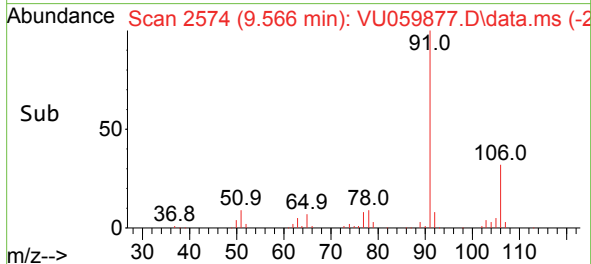
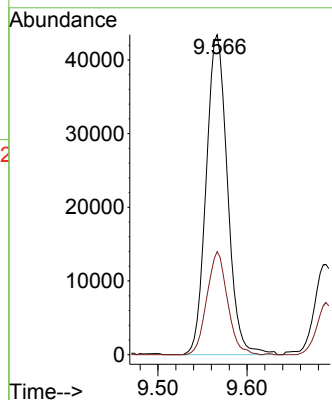
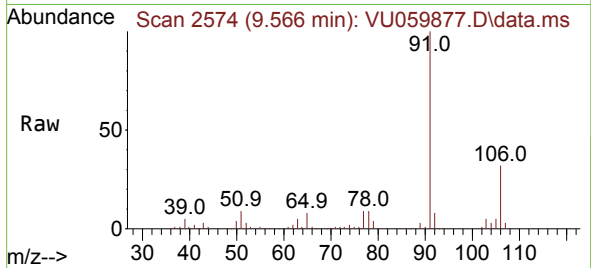




#52
Ethylbenzene
Concen: 1.252 ug/L
RT: 9.566 min Scan# 21
Delta R.T. 0.000 min
Lab File: VU059877.D
Acq: 08 Jul 2024 12:44

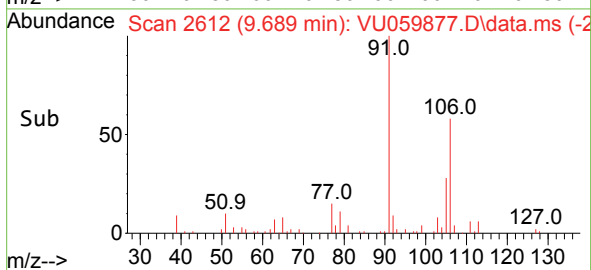
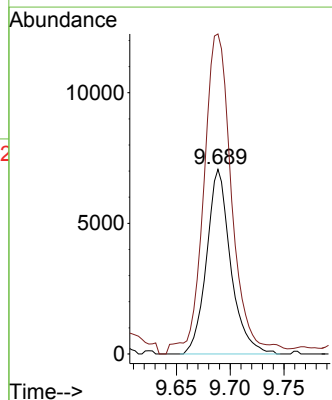
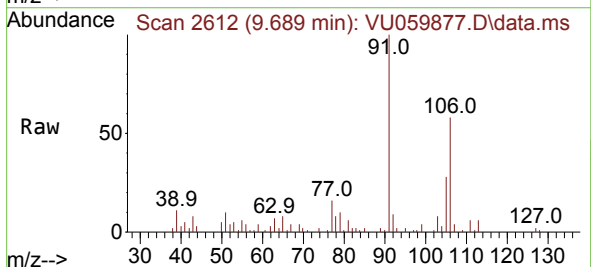
Instrument :
MSVOA_U
ClientSampleId :

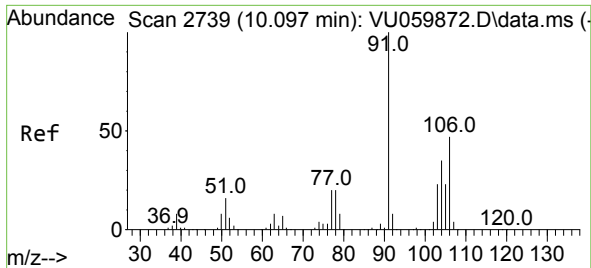
Tgt Ion: 91 Resp: 71961
Ion Ratio Lower Upper
91 100
106 32.2 20.9 38.7



#53
m,p-Xylene
Concen: 0.499 ug/L
RT: 9.689 min Scan# 2612
Delta R.T. 0.000 min
Lab File: VU059877.D
Acq: 08 Jul 2024 12:44

Tgt Ion: 106 Resp: 11030
Ion Ratio Lower Upper
106 100
91 173.2 142.0 263.8

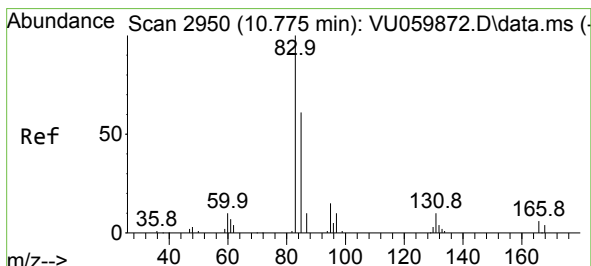
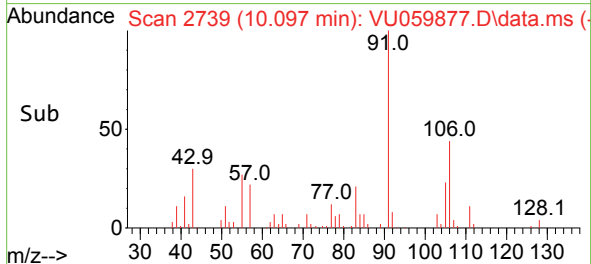
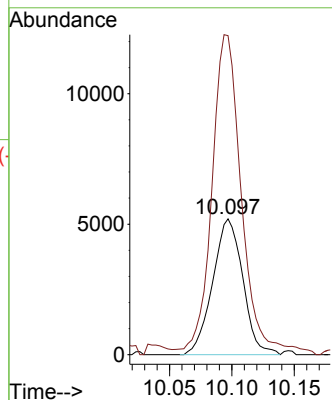
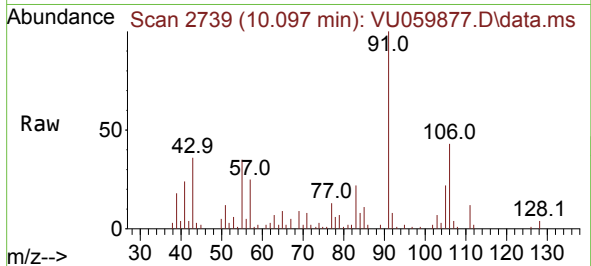




#54
o-Xylene
Concen: 0.418 ug/L
RT: 10.097 min Scan# 21
Delta R.T. 0.000 min
Lab File: VU059877.D
Acq: 08 Jul 2024 12:44

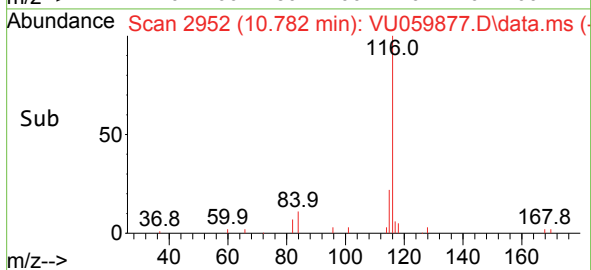
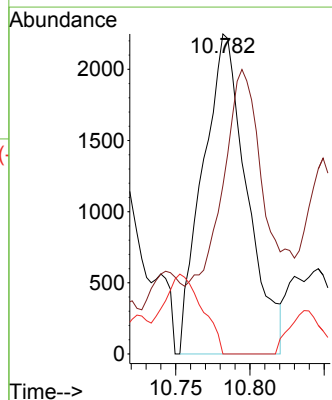
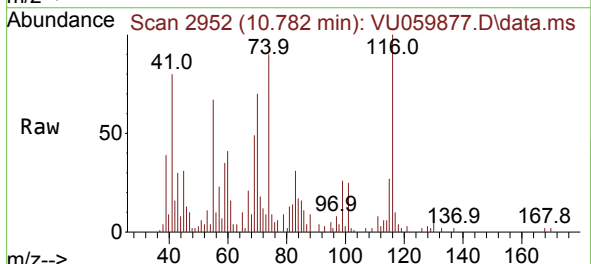
Instrument :
MSVOA_U
ClientSampleId :

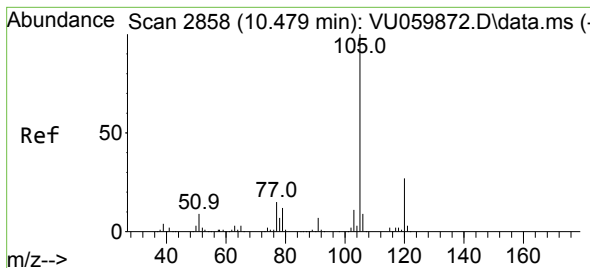
Tgt Ion:106 Resp: 8758
Ion Ratio Lower Upper
106 100
91 234.8 151.6 281.6



#57
1,1,2,2-Tetrachloroethane
Concen: 0.379 ug/L
RT: 10.782 min Scan# 2952
Delta R.T. 0.007 min
Lab File: VU059877.D
Acq: 08 Jul 2024 12:44

Tgt Ion: 83 Resp: 4646
Ion Ratio Lower Upper
83 100
85 52.7 44.7 82.9
131 0.0 6.9 10.3#





#60

Isopropylbenzene

Concen: 0.203 ug/L

RT: 10.480 min Scan# 21

Delta R.T. 0.000 min

Lab File: VU059877.D

Acq: 08 Jul 2024 12:44

Instrument :

MSVOA_U

ClientSampleId :

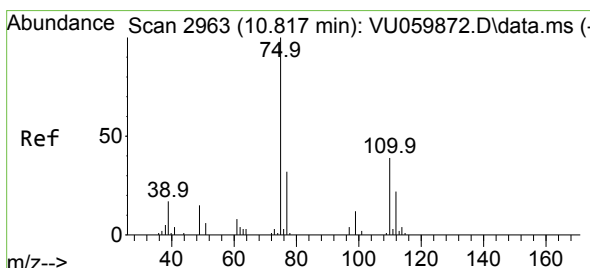
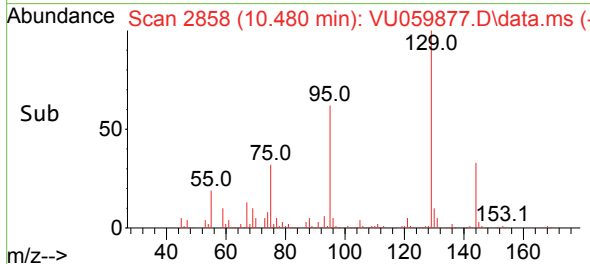
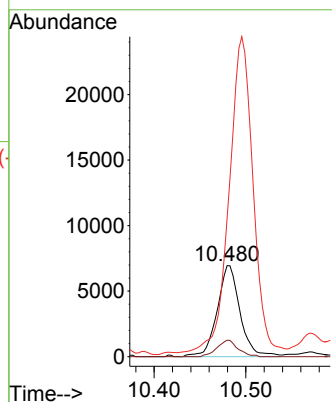
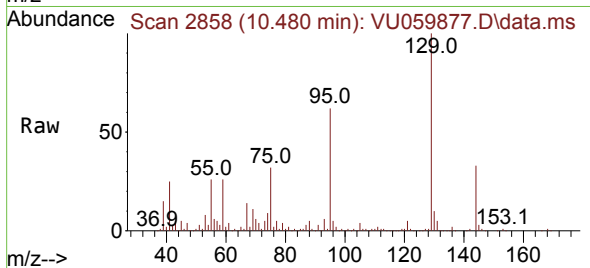
Tgt Ion:105 Resp: 12019

Ion Ratio Lower Upper

105 100

120 16.6 20.6 31.0#

77 361.1 12.8 19.2#



#61

1,2,3-Trichloropropane

Concen: 7.722 ug/L

RT: 11.650 min Scan# 3222

Delta R.T. 0.833 min

Lab File: VU059877.D

Acq: 08 Jul 2024 12:44

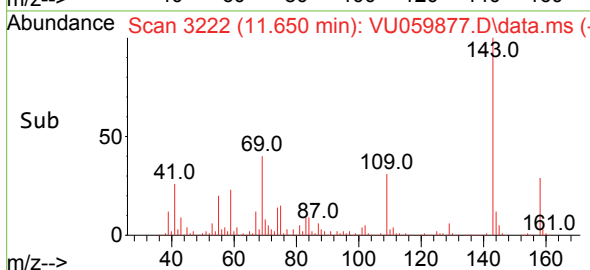
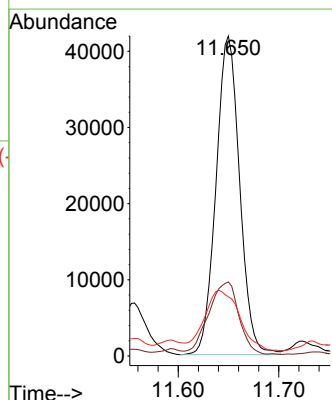
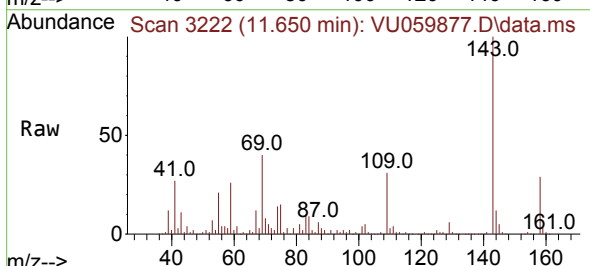
Tgt Ion: 75 Resp: 68434

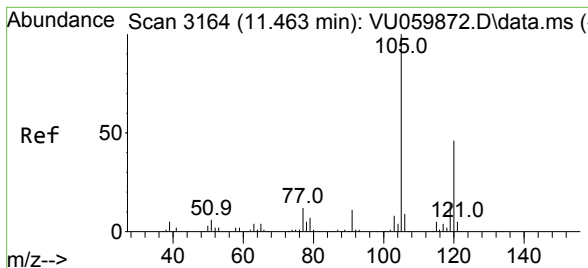
Ion Ratio Lower Upper

75 100

110 29.0 27.1 40.7

77 28.1 25.4 38.2

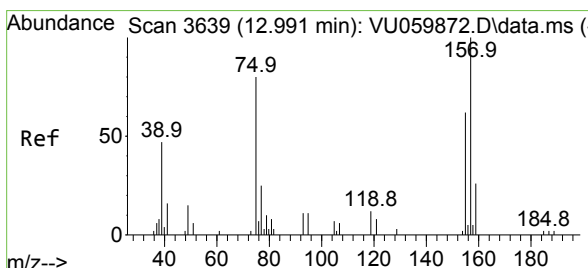
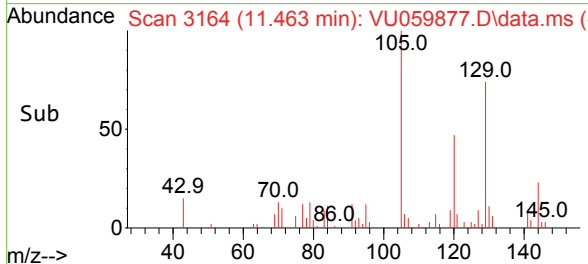
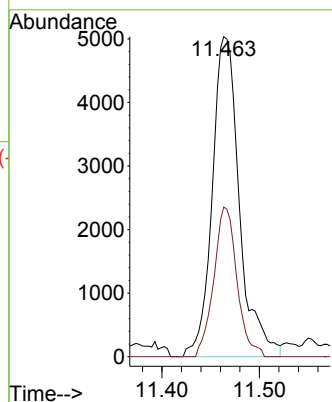
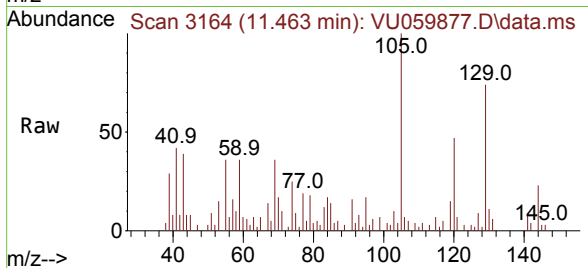




#63
 1,2,4-Trimethylbenzene
 Concen: 0.218 ug/L
 RT: 11.463 min Scan# 3164
 Delta R.T. 0.000 min
 Lab File: VU059877.D
 Acq: 08 Jul 2024 12:44

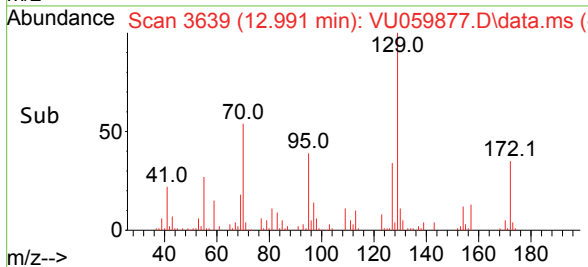
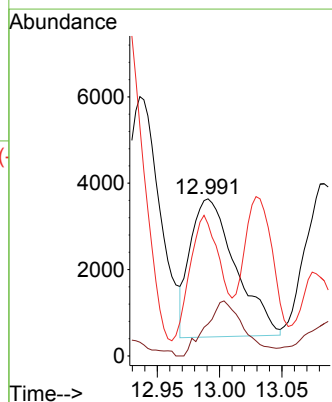
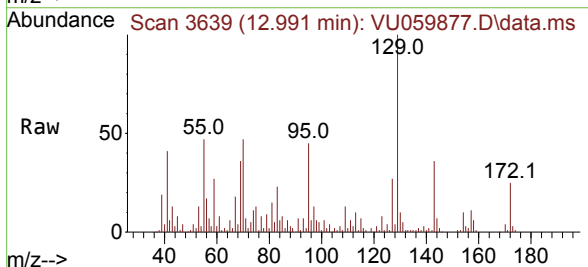
Instrument :
 MSVOA_U
 ClientSampleId :

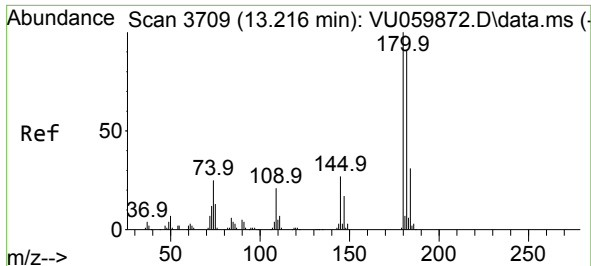
Tgt Ion:105 Resp: 9770
 Ion Ratio Lower Upper
 105 100
 120 39.8 35.4 53.0



#68
 1,2-Dibromo-3-chloropropane
 Concen: 4.675 ug/L
 RT: 12.991 min Scan# 3639
 Delta R.T. 0.000 min
 Lab File: VU059877.D
 Acq: 08 Jul 2024 12:44

Tgt Ion: 75 Resp: 8082
 Ion Ratio Lower Upper
 75 100
 155 20.4 58.2 87.2#
 157 83.9 80.0 120.0





#69

1,3,5-Trichlorobenzene

Concen: 0.273 ug/L

RT: 12.769 min Scan# 31

Delta R.T. -0.447 min

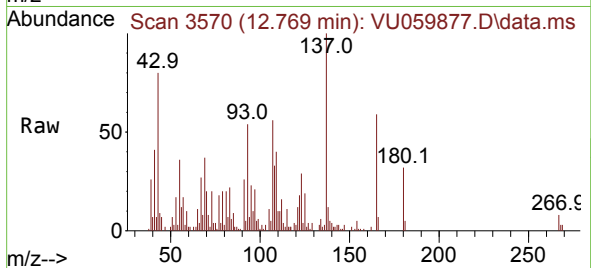
Lab File: VU059877.D

Acq: 08 Jul 2024 12:44

Instrument :

MSVOA_U

ClientSampleId :



Tgt Ion:180 Resp: 6092

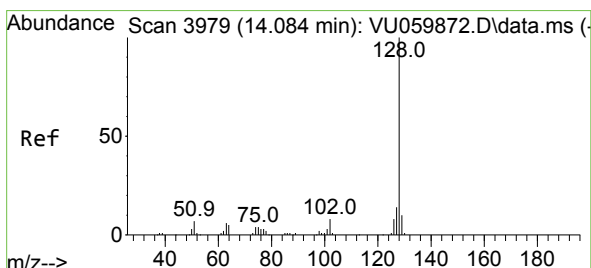
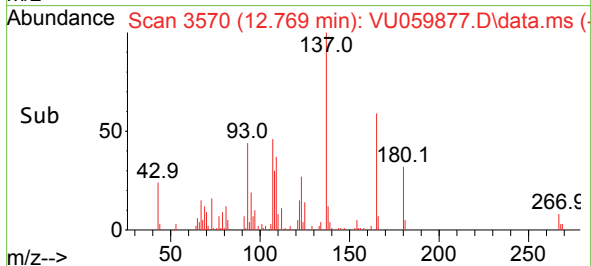
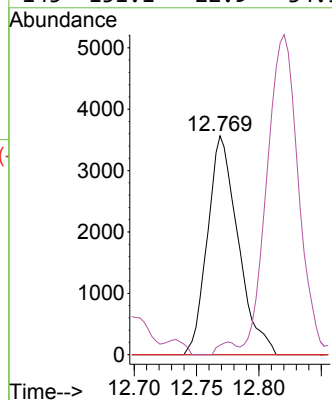
Ion	Ratio	Lower	Upper
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180	100		
-----	-----	--	--

182	0.0	75.4	113.0#
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184	0.0	23.0	34.6#
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145	151.1	22.9	34.3#
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#71

Naphthalene

Concen: 0.191 ug/L

RT: 14.090 min Scan# 3981

Delta R.T. 0.007 min

Lab File: VU059877.D

Acq: 08 Jul 2024 12:44

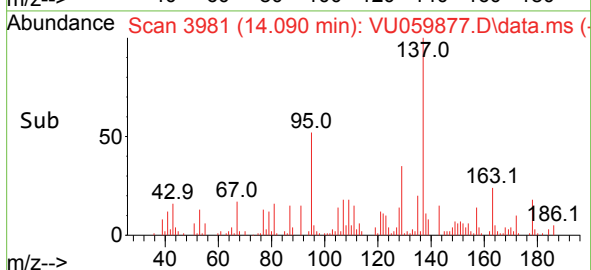
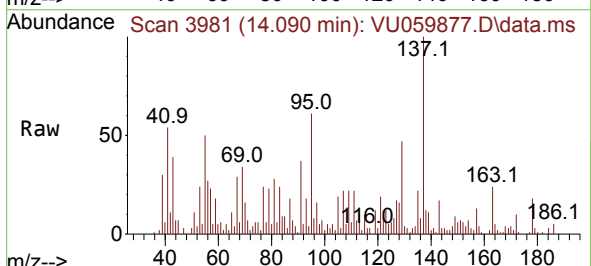
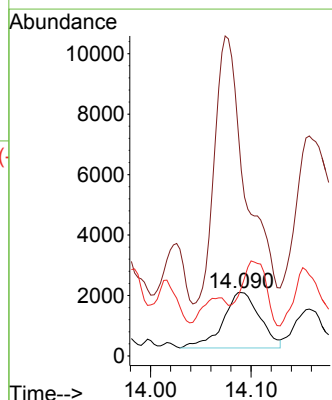
Tgt Ion:128 Resp: 4680

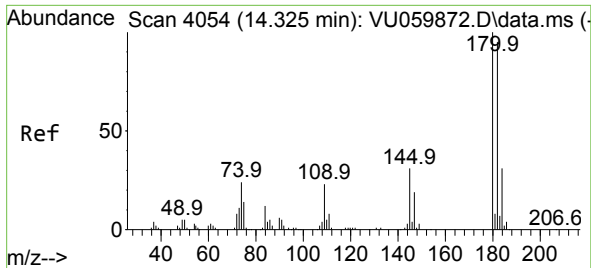
Ion	Ratio	Lower	Upper
-----	-------	-------	-------

128	100		
-----	-----	--	--

129	470.6	8.2	12.4#
-----	-------	-----	-------

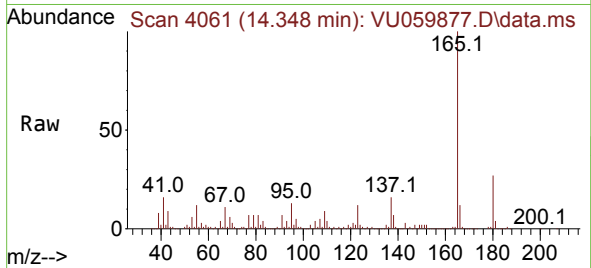
127	0.0	10.2	15.4#
-----	-----	------	-------





#72
 1,2,3-Trichlorobenzene
 Concen: 5.764 ug/L
 RT: 14.348 min Scan# 40
 Delta R.T. 0.023 min
 Lab File: VU059877.D
 Acq: 08 Jul 2024 12:44

Instrument :
 MSVOA_U
 ClientSampleId :



Tgt Ion:180 Resp: 91579
 Ion Ratio Lower Upper
 180 100
 182 3.4 77.0 115.6#
 145 1.6 26.2 39.4#

