

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU021125\
 Data File : VU063237.D
 Acq On : 11 Feb 2025 15:45
 Operator : MD/SY
 Sample : Q1172-07
 Misc : 25.0mL/MSVOA_U/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Feb 12 03:19:46 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\524U021025DW.M
 Quant Title : METHOD 524.2 VOLATILES DRINKING WATER
 QLast Update : Tue Feb 11 08:42:19 2025
 Response via : Initial Calibration

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

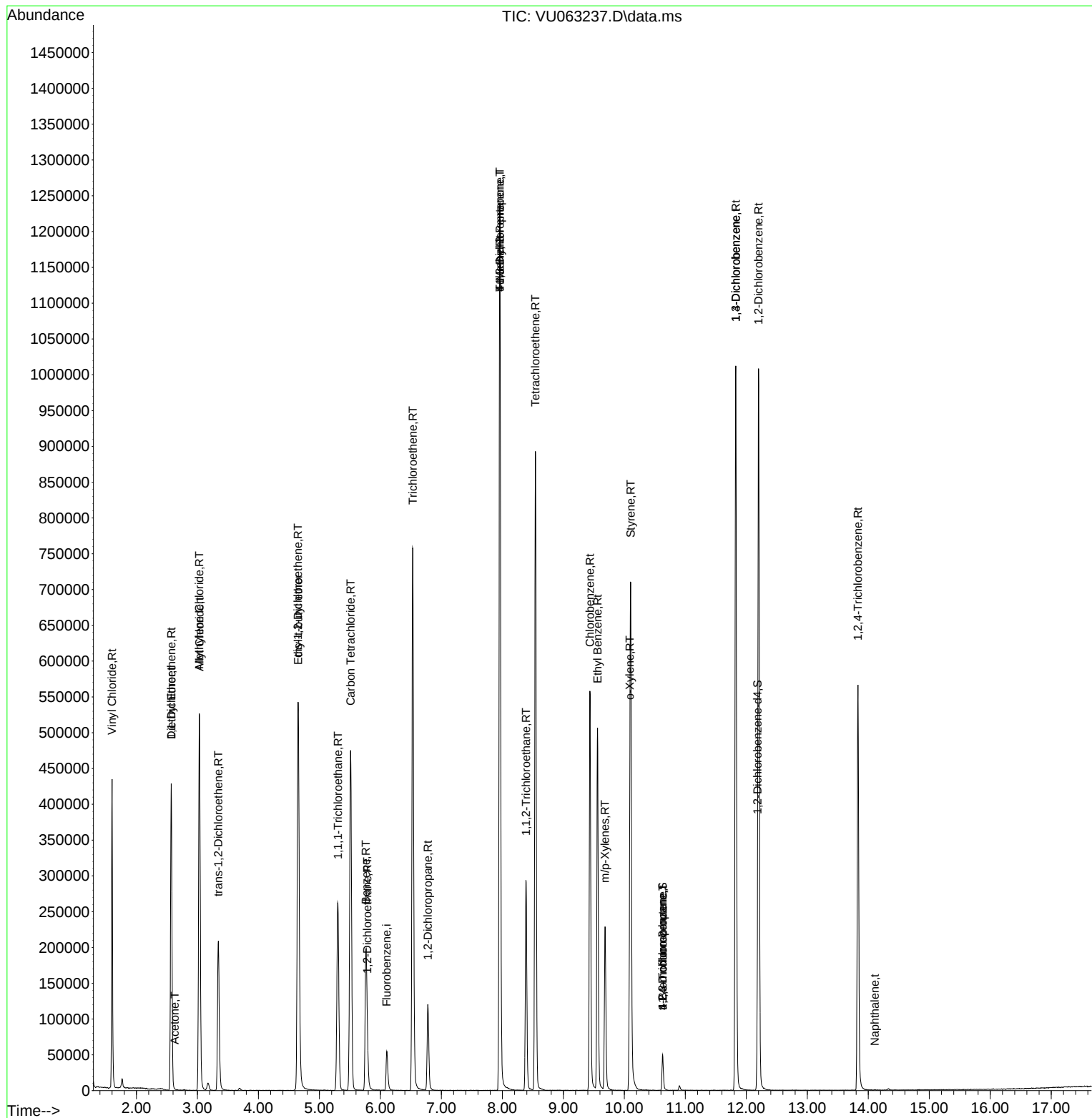
Internal Standards						
1) Fluorobenzene	6.103	96	54333	1.000	ug/l	# 0.00
System Monitoring Compounds						
57) 4-Bromofluorobenzene	10.627	95	18048	1.007	ug/l	0.00
Spiked Amount 1.000			Recovery	=	101.000%	
68) 1,2-Dichlorobenzene-d4	12.184	152	18316	0.983	ug/l	0.00
Spiked Amount 1.000			Recovery	=	98.000%	
Target Compounds						
						Qvalue
4) Vinyl Chloride	1.599	62	289938	14.415	ug/l	99
9) 1,1-Dichloroethene	2.570	96	150522	10.920	ug/l	97
11) Allyl Chloride	3.033	41	8897	0.449	ug/l #	13
13) Acetone	2.628	43	694	0.284	ug/l	95
15) Methylene Chloride	3.030	84	256157	15.042	ug/l	98
16) trans-1,2-Dichloroethene	3.341	96	90153	5.730	ug/l	99
22) cis-1,2-Dichloroethene	4.650	96	295505	17.384	ug/l	88
23) Diethyl Ether	2.570	59	8332	0.704	ug/l #	15
24) tert-Butyl Alcohol	3.174	59	6219	Below Cal	#	74
28) 1,1,1-Trichloroethane	5.303	97	189267	7.807	ug/l	100
30) Carbon Tetrachloride	5.512	117	326894	15.724	ug/l	97
32) Ethyl-t-butyl ether	4.653	59	8497	0.221	ug/l #	35
35) Benzene	5.763	78	181072	2.712	ug/l	99
36) 1,2-Dichloroethane	5.785	62	47795	2.481	ug/l	98
37) Trichloroethene	6.531	130	257443	16.215	ug/l	100
38) 1,2-Dichloropropane	6.779	63	49067	2.808	ug/l	99
45) 4-Methyl-2-Pentanone	7.959	43	5940	0.640	ug/l #	6
46) t-1,4-Dichloro-2-butene	10.627	75	9369	2.148	ug/l #	23
49) Toluene	7.959	92	523597	13.638	ug/l	98
50) t-1,3-Dichloropropene	7.959	75	5678	0.301	ug/l #	1
52) 1,1,2-Trichloroethane	8.386	97	94081	7.886	ug/l	98
58) Tetrachloroethene	8.541	164	193632	14.799	ug/l	98
59) Chlorobenzene	9.434	112	303811	7.499	ug/l	99
63) Ethyl Benzene	9.560	91	352913	5.051	ug/l	100
64) m/p-Xylenes	9.682	106	65739	2.519	ug/l	98
65) o-Xylene	10.090	106	67433	2.639	ug/l	99
66) Styrene	10.103	104	309385	7.609	ug/l	94
71) 1,2,3-Trichloropropane	10.627	75	9369	0.776	ug/l #	43
82) 1,3-Dichlorobenzene	11.827	146	426032	13.571	ug/l	98
83) 1,4-Dichlorobenzene	11.827	146	426032	13.875	ug/l	99
85) 1,2-Dichlorobenzene	12.200	146	409950	13.589	ug/l	99
87) 1,2,4-Trichlorobenzene	13.830	180	185597	12.614	ug/l	99
89) Naphthalene	14.106	128	743	0.679	ug/l #	69

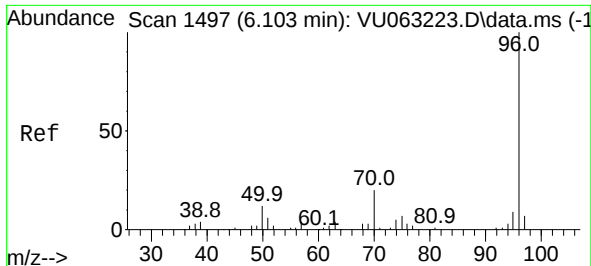
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU021125\
Data File : VU063237.D
Acq On : 11 Feb 2025 15:45
Operator : MD/SY
Sample : Q1172-07
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :

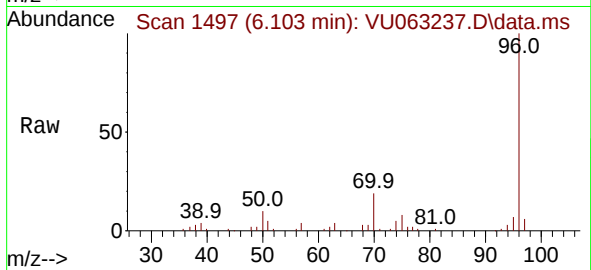
Quant Time: Feb 12 03:19:46 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\524U021025DW.M
Quant Title : METHOD 524.2 VOLATILES DRINKING WATER
QLast Update : Tue Feb 11 08:42:19 2025
Response via : Initial Calibration



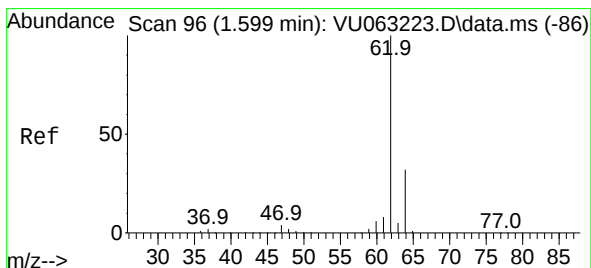
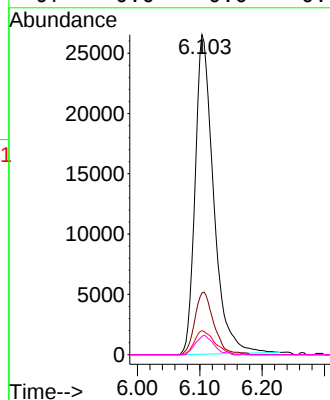
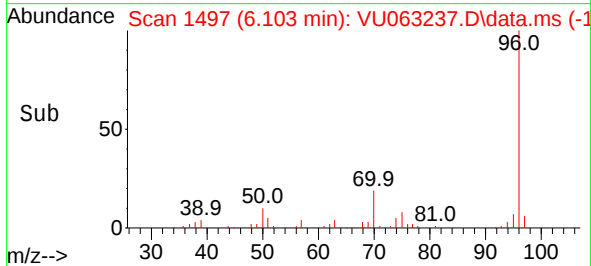


#1
Fluorobenzene
Concen: 1.000 ug/l
RT: 6.103 min Scan# 1497
Delta R.T. 0.000 min
Lab File: VU063237.D
Acq: 11 Feb 2025 15:45

Instrument :
MSVOA_U
ClientSampleId :

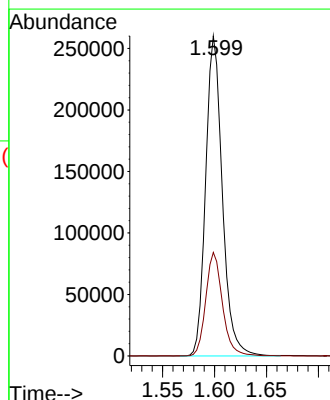
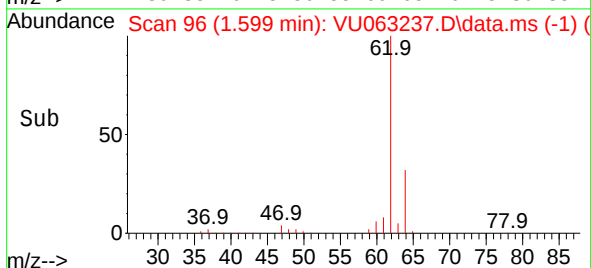
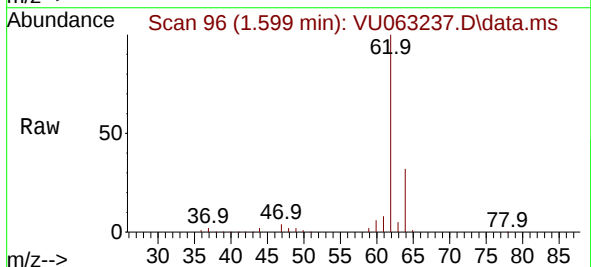


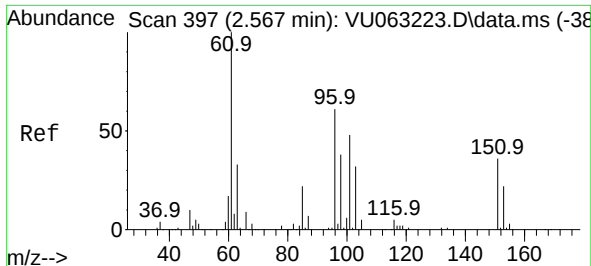
Tgt Ion: 96	Resp: 54333
Ion Ratio	Lower Upper
96	100
70	20.3 15.6 23.4
95	0.0 7.3 10.9
97	0.0 0.0 0.0



#4
Vinyl Chloride
Concen: 14.415 ug/l
RT: 1.599 min Scan# 96
Delta R.T. 0.000 min
Lab File: VU063237.D
Acq: 11 Feb 2025 15:45

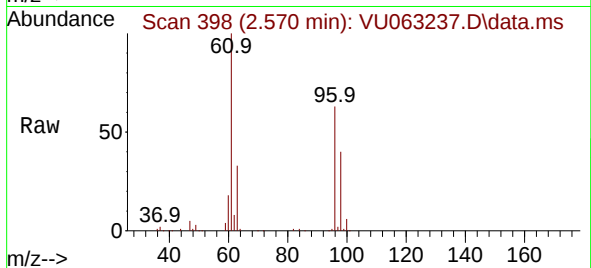
Tgt Ion: 62	Resp: 289938
Ion Ratio	Lower Upper
62	100
64	32.3 25.4 38.0



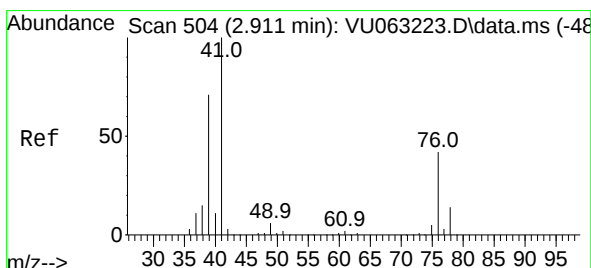
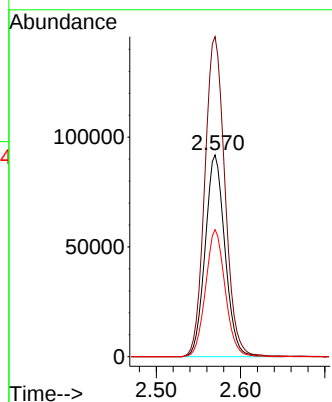
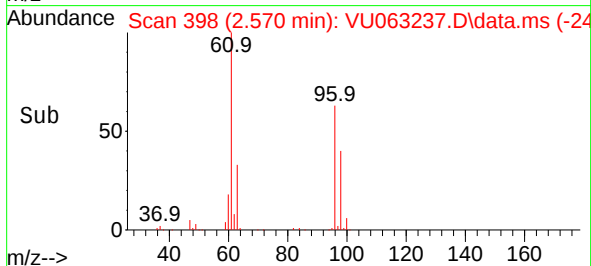


#9
1,1-Dichloroethene
Concen: 10.920 ug/l
RT: 2.570 min Scan# 30
Delta R.T. 0.003 min
Lab File: VU063237.D
Acq: 11 Feb 2025 15:45

Instrument :
MSVOA_U
ClientSampleId :

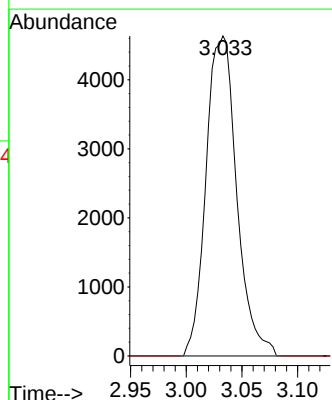
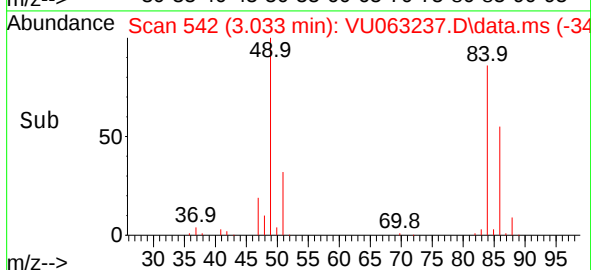
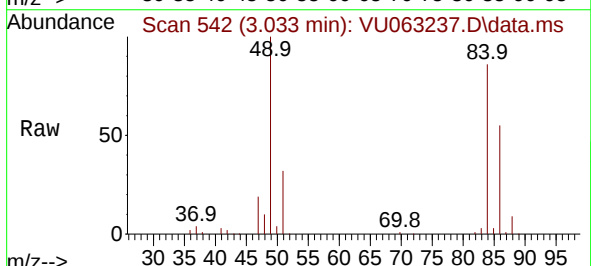


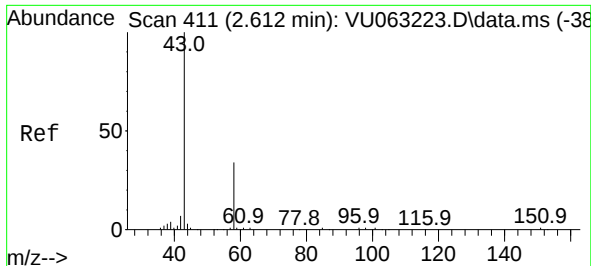
Tgt Ion: 96 Resp: 150522
Ion Ratio Lower Upper
96 100
61 158.6 0.0 492.9
98 63.0 0.0 124.0



#11
Allyl Chloride
Concen: 0.449 ug/l
RT: 3.033 min Scan# 542
Delta R.T. 0.122 min
Lab File: VU063237.D
Acq: 11 Feb 2025 15:45

Tgt Ion: 41 Resp: 8897
Ion Ratio Lower Upper
41 100
39 0.0 57.9 86.9#





#13

Acetone

Concen: 0.284 ug/l

RT: 2.628 min Scan# 411

Delta R.T. 0.016 min

Lab File: VU063237.D

Acq: 11 Feb 2025 15:45

Instrument :

MSVOA_U

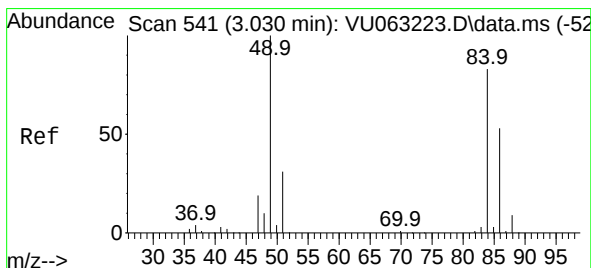
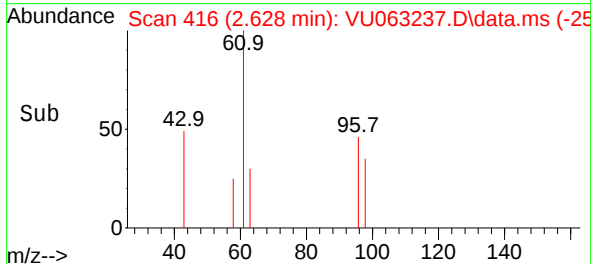
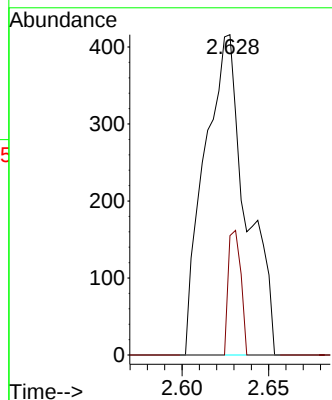
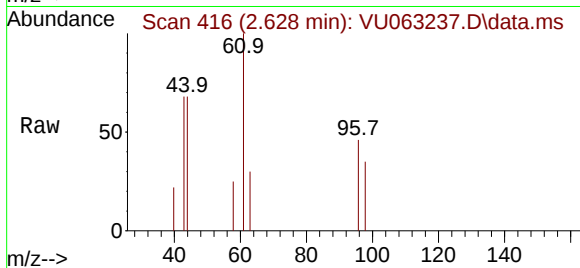
ClientSampleId :

Tgt Ion: 43 Resp: 694

Ion Ratio Lower Upper

43 100

58 37.3 27.4 41.0



#15

Methylene Chloride

Concen: 15.042 ug/l

RT: 3.030 min Scan# 541

Delta R.T. 0.000 min

Lab File: VU063237.D

Acq: 11 Feb 2025 15:45

Tgt Ion: 84 Resp: 256157

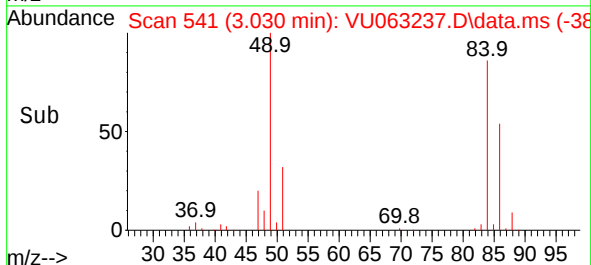
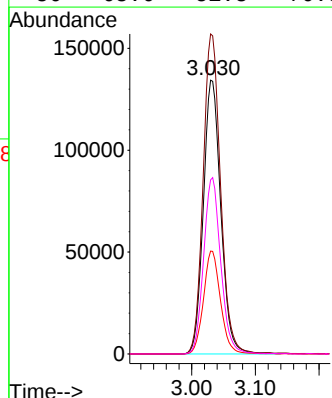
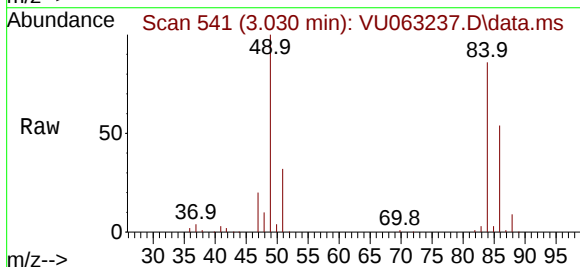
Ion Ratio Lower Upper

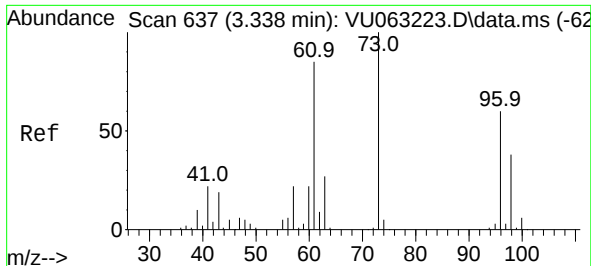
84 100

49 116.9 96.4 144.6

51 37.6 0.0 74.8

86 63.6 51.3 76.9





#16

trans-1,2-Dichloroethene

Concen: 5.730 ug/l

RT: 3.341 min Scan# 61

Delta R.T. 0.003 min

Lab File: VU063237.D

Acq: 11 Feb 2025 15:45

Instrument :

MSVOA_U

ClientSampleId :

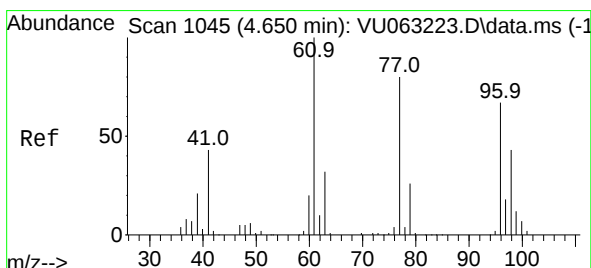
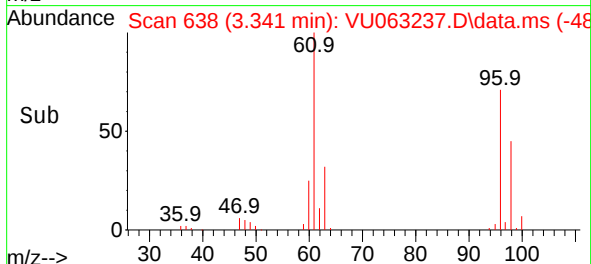
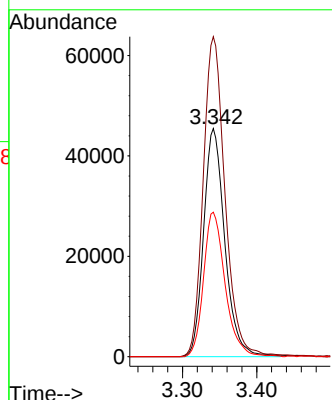
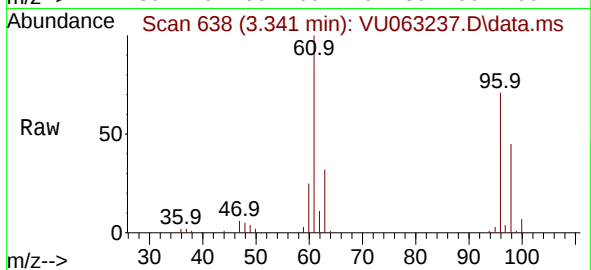
Tgt Ion: 96 Resp: 90153

Ion Ratio Lower Upper

96 100

61 140.2 113.4 170.2

98 63.3 51.2 76.8



#22

cis-1,2-Dichloroethene

Concen: 17.384 ug/l

RT: 4.650 min Scan# 1045

Delta R.T. 0.000 min

Lab File: VU063237.D

Acq: 11 Feb 2025 15:45

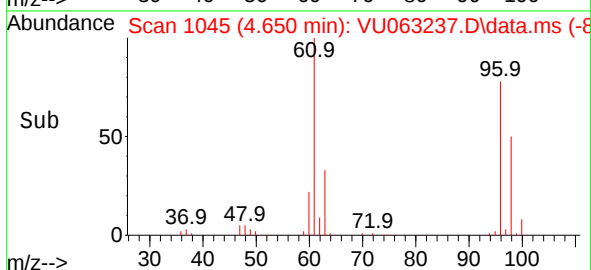
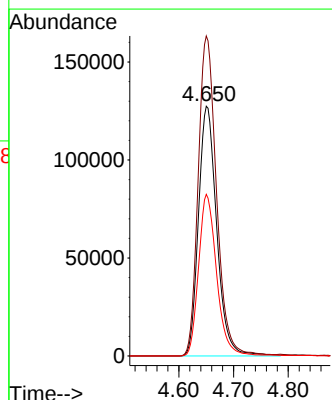
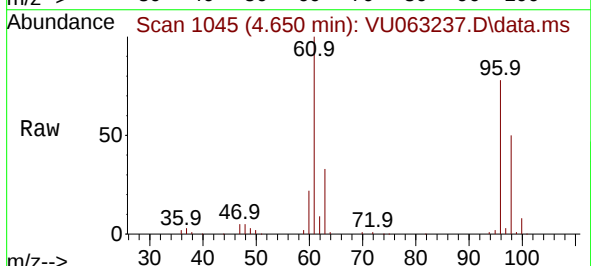
Tgt Ion: 96 Resp: 295505

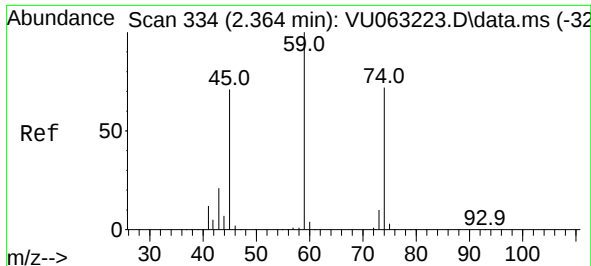
Ion Ratio Lower Upper

96 100

61 128.6 0.0 373.3

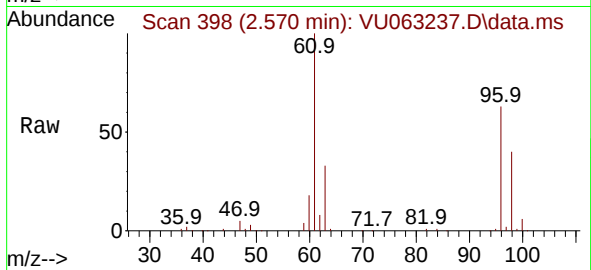
98 63.6 31.9 95.9



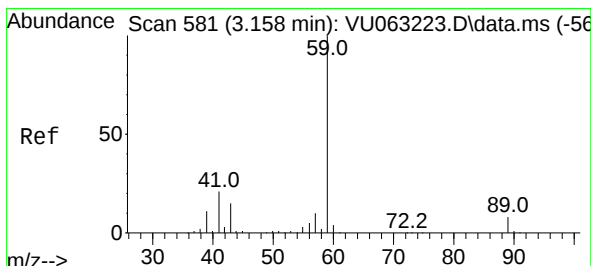
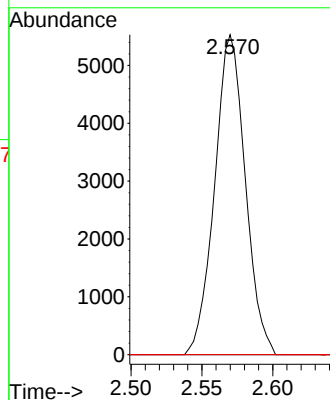
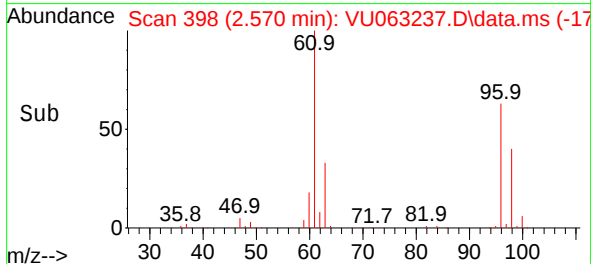


#23
Diethyl Ether
Concen: 0.704 ug/l
RT: 2.570 min Scan# 30
Delta R.T. 0.206 min
Lab File: VU063237.D
Acq: 11 Feb 2025 15:45

Instrument :
MSVOA_U
ClientSampleId :

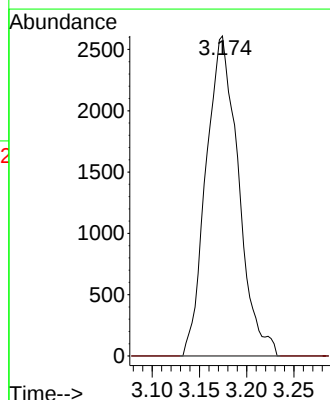
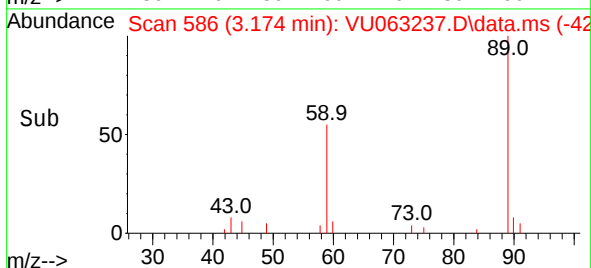
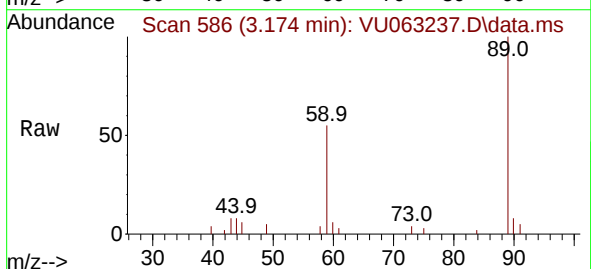


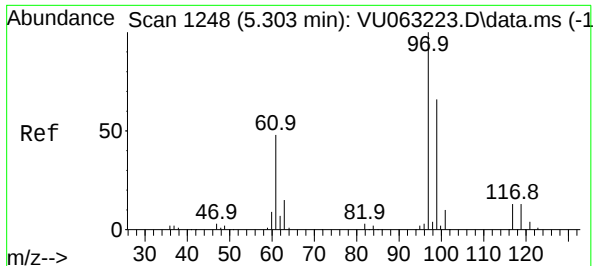
Tgt Ion: 59 Resp: 8332
Ion Ratio Lower Upper
59 100
45 3.0 57.8 86.6#
74 0.0 57.7 86.5#



#24
tert-Butyl Alcohol
Concen: Below Cal
RT: 3.174 min Scan# 586
Delta R.T. 0.016 min
Lab File: VU063237.D
Acq: 11 Feb 2025 15:45

Tgt Ion: 59 Resp: 6219
Ion Ratio Lower Upper
59 100
57 0.0 7.5 11.3#





#28

1,1,1-Trichloroethane

Concen: 7.807 ug/l

RT: 5.303 min Scan# 1248

Delta R.T. 0.000 min

Lab File: VU063237.D

Acq: 11 Feb 2025 15:45

Instrument :

MSVOA_U

ClientSampleId :

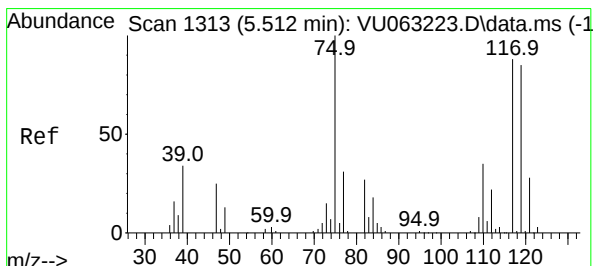
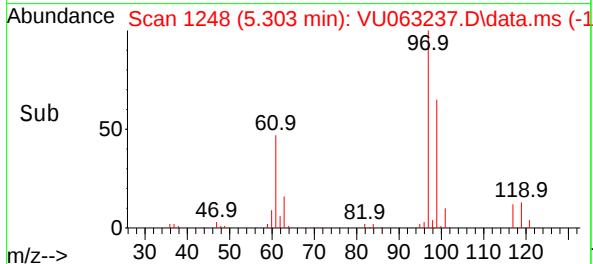
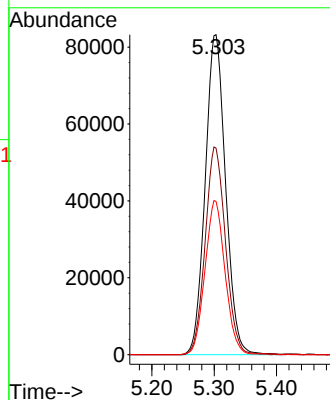
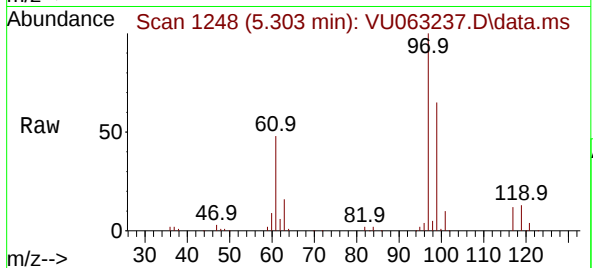
Tgt Ion: 97 Resp: 189267

Ion Ratio Lower Upper

97 100

99 64.7 32.4 97.0

61 47.4 23.8 71.2



#30

Carbon Tetrachloride

Concen: 15.724 ug/l

RT: 5.512 min Scan# 1313

Delta R.T. 0.000 min

Lab File: VU063237.D

Acq: 11 Feb 2025 15:45

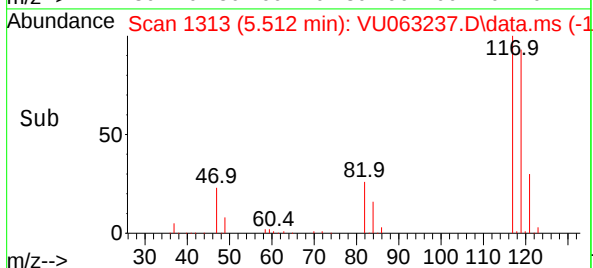
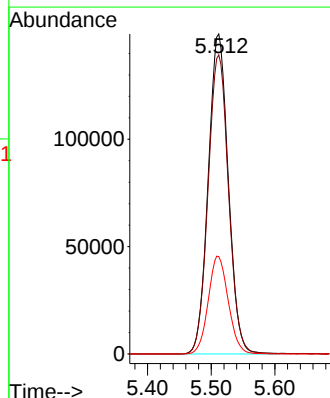
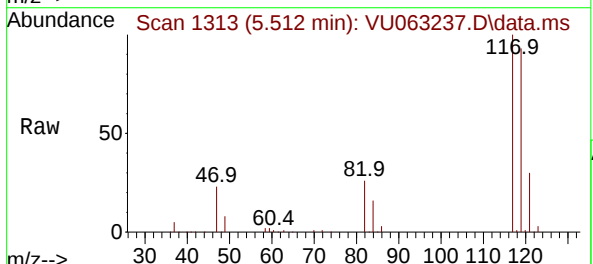
Tgt Ion: 117 Resp: 326894

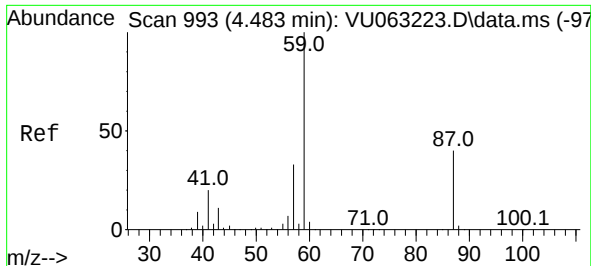
Ion Ratio Lower Upper

117 100

119 93.5 76.7 115.1

121 30.5 25.5 38.3

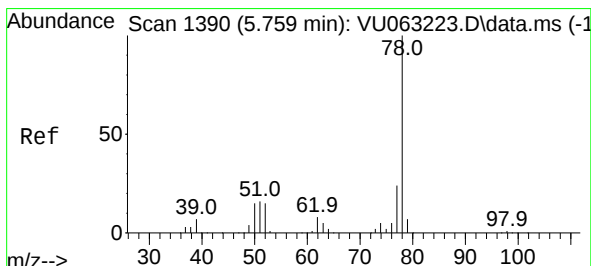
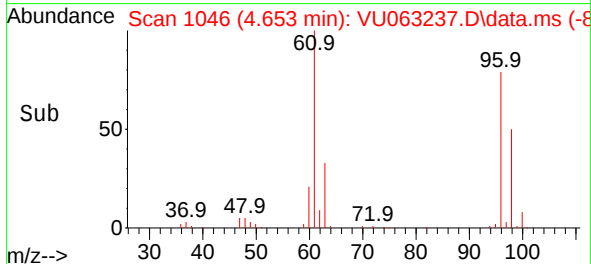
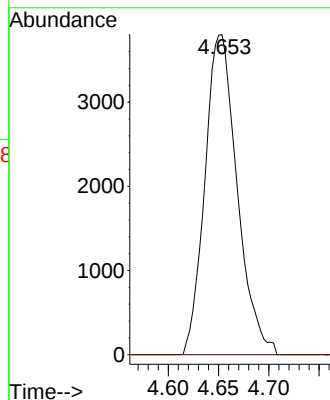
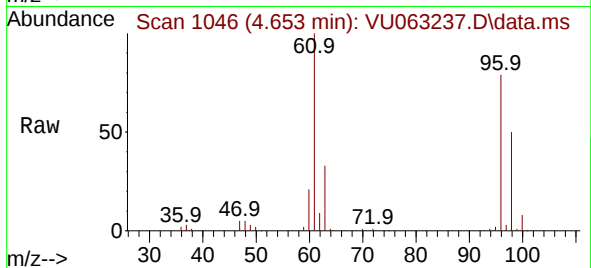




#32
Ethyl-t-butyl ether
Concen: 0.221 ug/l
RT: 4.653 min Scan# 1046
Delta R.T. 0.170 min
Lab File: VU063237.D
Acq: 11 Feb 2025 15:45

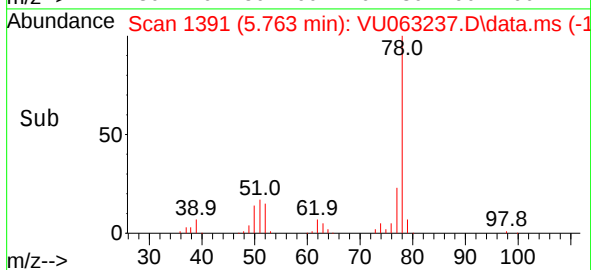
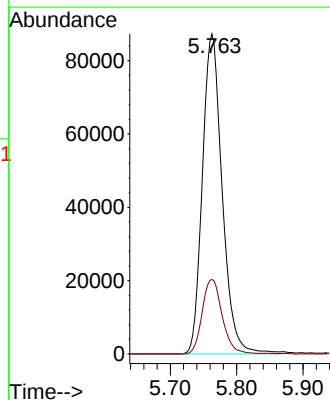
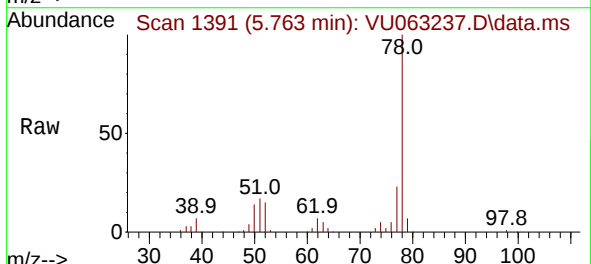
Instrument :
MSVOA_U
ClientSampleId :

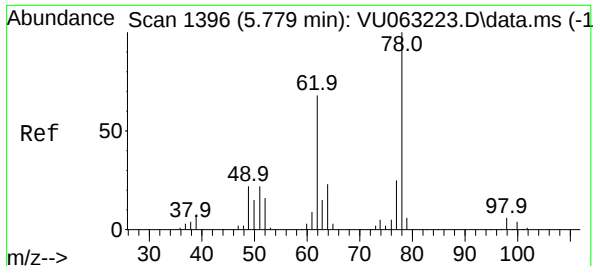
Tgt Ion: 59 Resp: 8497
Ion Ratio Lower Upper
59 100
87 0.0 32.6 49.0#



#35
Benzene
Concen: 2.712 ug/l
RT: 5.763 min Scan# 1391
Delta R.T. 0.003 min
Lab File: VU063237.D
Acq: 11 Feb 2025 15:45

Tgt Ion: 78 Resp: 181072
Ion Ratio Lower Upper
78 100
77 23.3 19.0 28.4





#36

1,2-Dichloroethane

Concen: 2.481 ug/l

RT: 5.785 min Scan# 1398

Delta R.T. 0.006 min

Lab File: VU063237.D

Acq: 11 Feb 2025 15:45

Instrument :

MSVOA_U

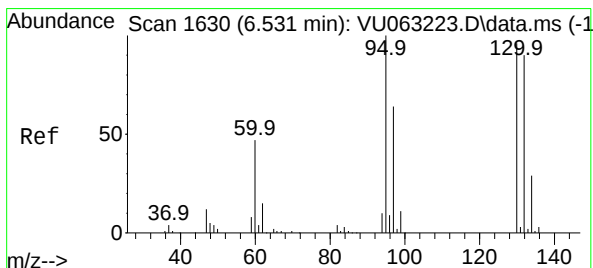
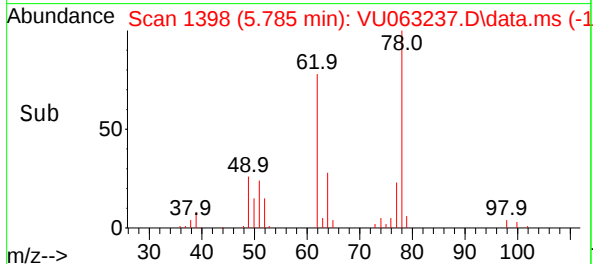
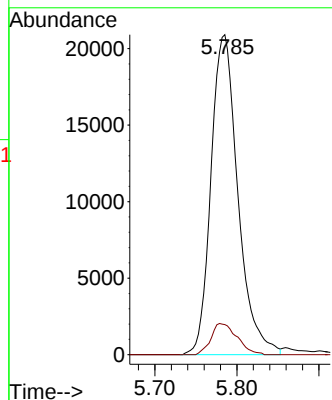
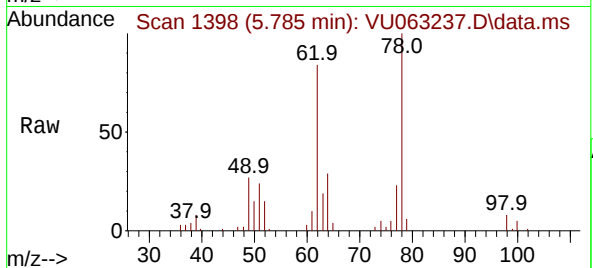
ClientSampleId :

Tgt Ion: 62 Resp: 47795

Ion Ratio Lower Upper

62 100

98 9.4 6.9 10.3



#37

Trichloroethene

Concen: 16.215 ug/l

RT: 6.531 min Scan# 1630

Delta R.T. 0.000 min

Lab File: VU063237.D

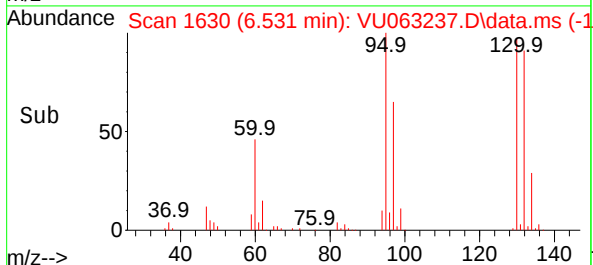
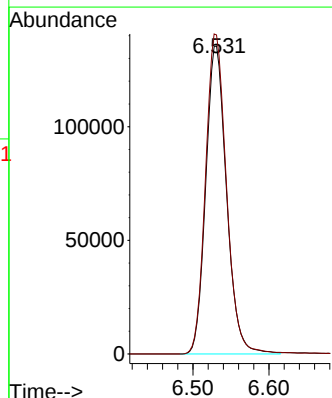
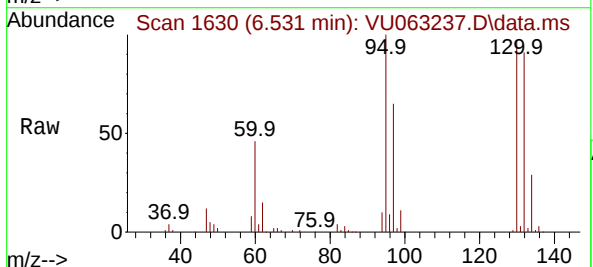
Acq: 11 Feb 2025 15:45

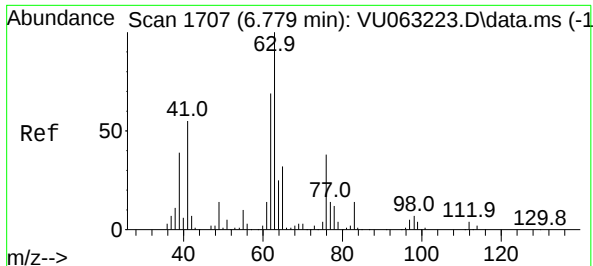
Tgt Ion:130 Resp: 257443

Ion Ratio Lower Upper

130 100

95 103.5 83.2 124.8

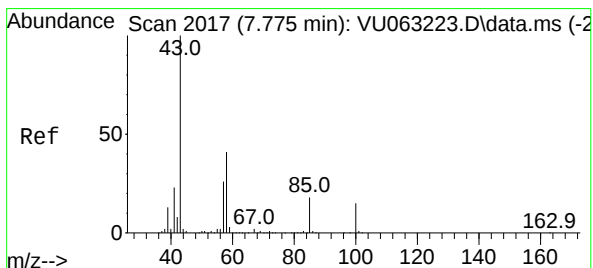
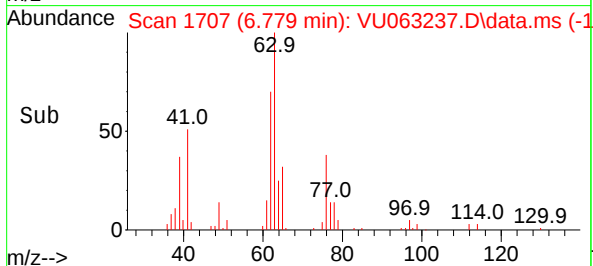
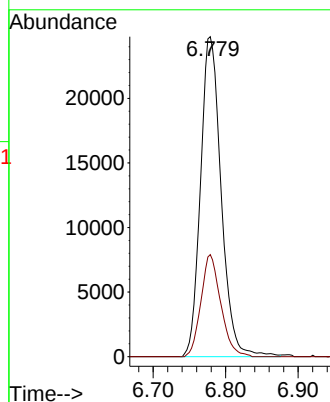
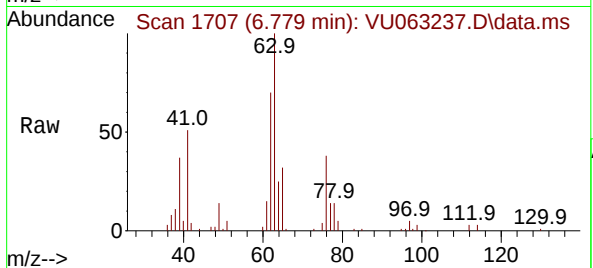




#38
1,2-Dichloropropane
Concen: 2.808 ug/l
RT: 6.779 min Scan# 1
Delta R.T. 0.000 min
Lab File: VU063237.D
Acq: 11 Feb 2025 15:45

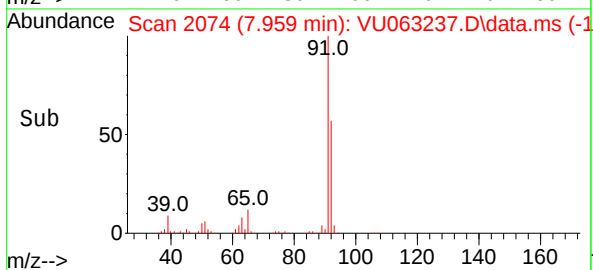
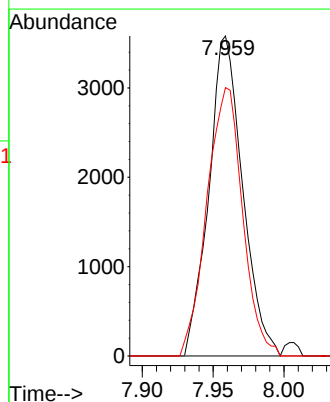
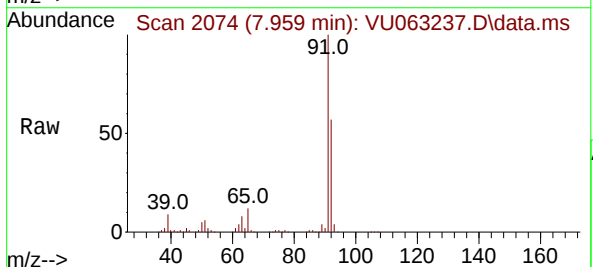
Instrument :
MSVOA_U
ClientSampleId :

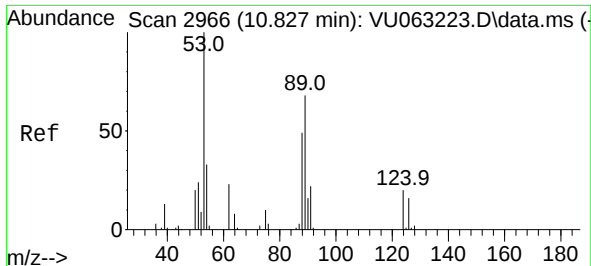
Tgt Ion: 63 Resp: 49067
Ion Ratio Lower Upper
63 100
65 31.9 25.3 37.9



#45
4-Methyl-2-Pentanone
Concen: 0.640 ug/l
RT: 7.959 min Scan# 2074
Delta R.T. 0.183 min
Lab File: VU063237.D
Acq: 11 Feb 2025 15:45

Tgt Ion: 43 Resp: 5940
Ion Ratio Lower Upper
43 100
58 0.0 20.8 62.5#
85 88.4 14.8 22.2#

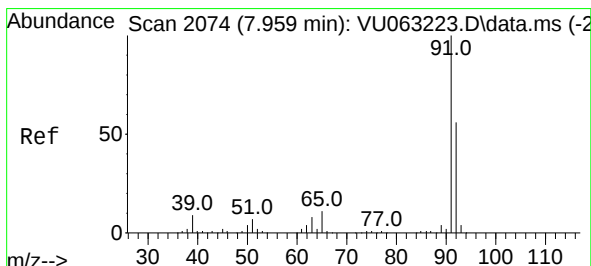
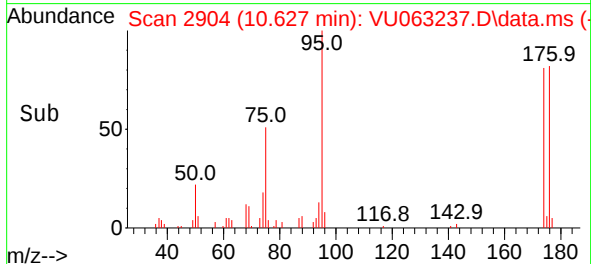
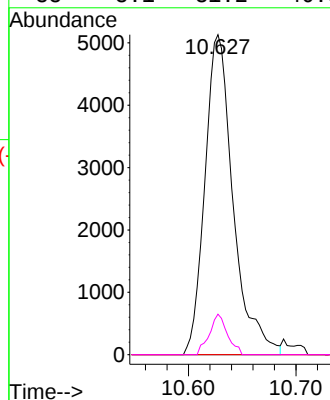
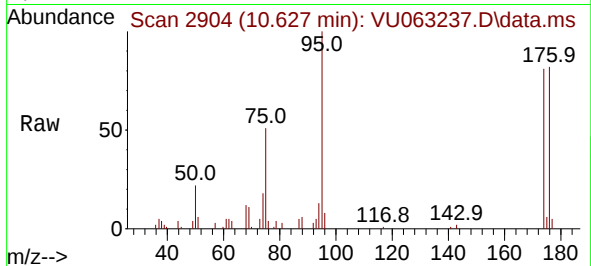




#46
t-1,4-Dichloro-2-butene
Concen: 2.148 ug/l
RT: 10.627 min Scan# 2966
Delta R.T. -0.199 min
Lab File: VU063237.D
Acq: 11 Feb 2025 15:45

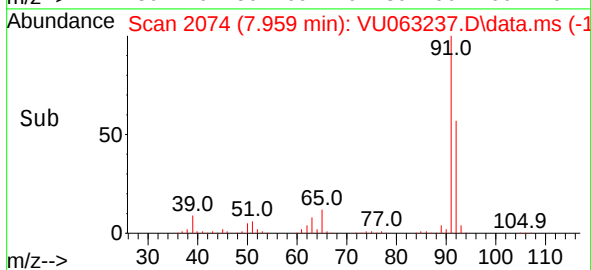
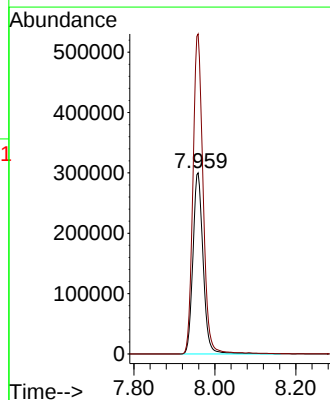
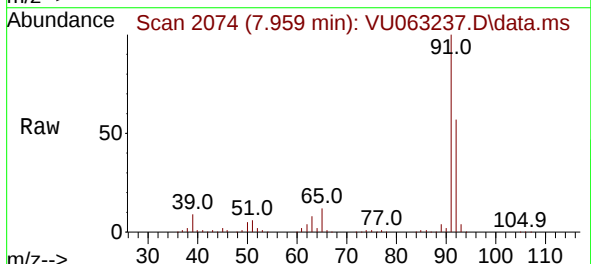
Instrument : MSVOA_U
ClientSampleId :

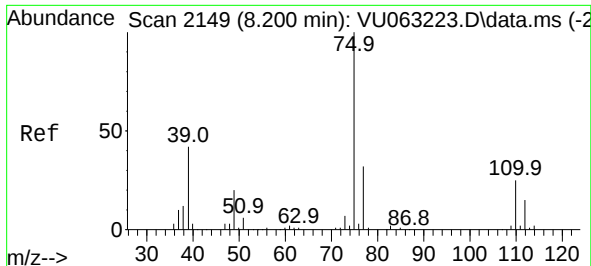
Tgt Ion: 75 Resp: 9369
Ion Ratio Lower Upper
75 100
53 0.0 64.5 96.7#
89 0.0 43.4 65.2#
88 8.1 31.2 46.8#



#49
Toluene
Concen: 13.638 ug/l
RT: 7.959 min Scan# 2074
Delta R.T. 0.000 min
Lab File: VU063237.D
Acq: 11 Feb 2025 15:45

Tgt Ion: 92 Resp: 523597
Ion Ratio Lower Upper
92 100
91 174.9 141.8 212.6

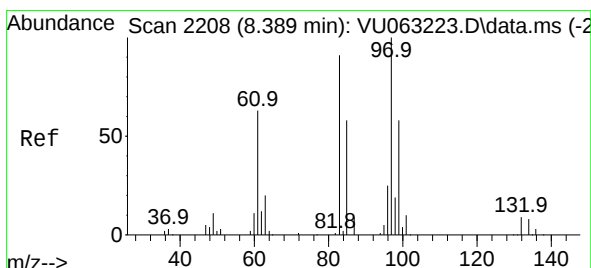
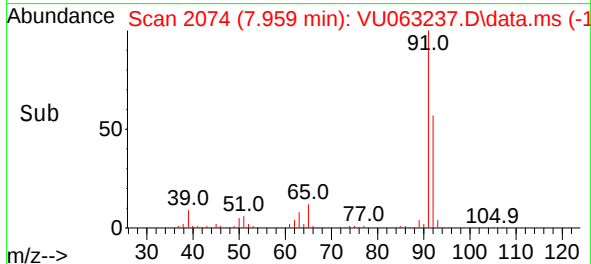
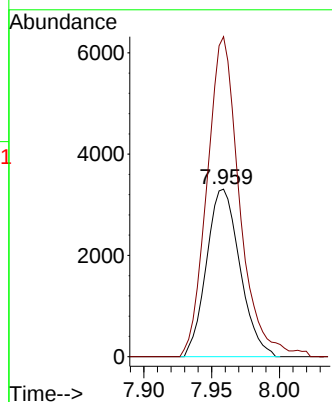
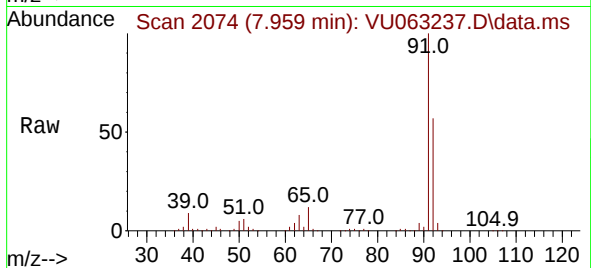




#50
t-1,3-Dichloropropene
Concen: 0.301 ug/l
RT: 7.959 min Scan# 2074
Delta R.T. -0.241 min
Lab File: VU063237.D
Acq: 11 Feb 2025 15:45

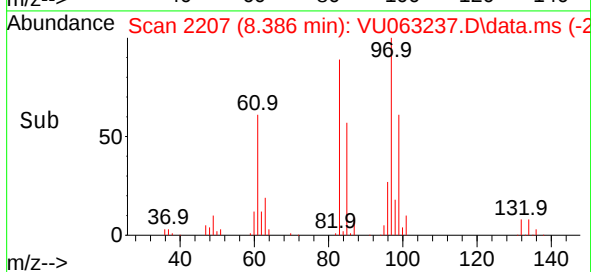
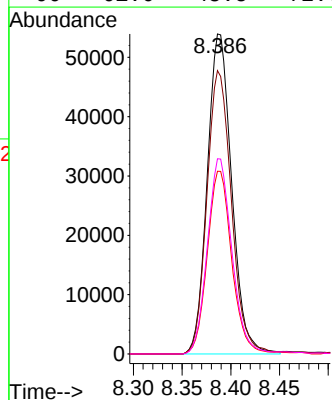
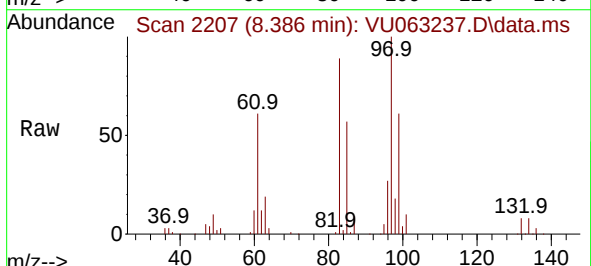
Instrument :
MSVOA_U
ClientSampleId :

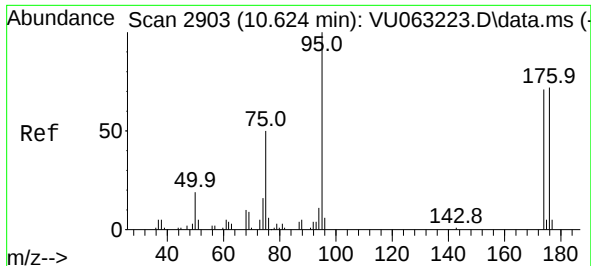
Tgt Ion: 75 Resp: 5678
Ion Ratio Lower Upper
75 100
77 190.9 25.9 38.9#



#52
1,1,2-Trichloroethane
Concen: 7.886 ug/l
RT: 8.386 min Scan# 2207
Delta R.T. -0.003 min
Lab File: VU063237.D
Acq: 11 Feb 2025 15:45

Tgt Ion: 97 Resp: 94081
Ion Ratio Lower Upper
97 100
83 88.6 73.0 109.4
85 57.1 46.3 69.5
99 61.0 48.5 72.7

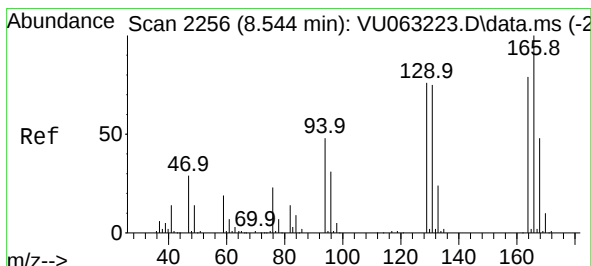
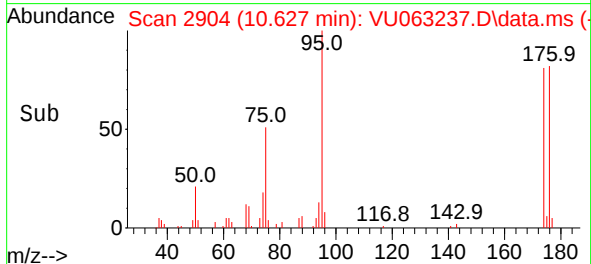
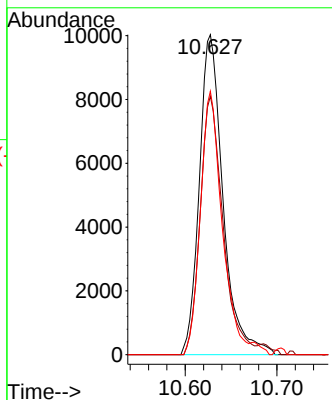
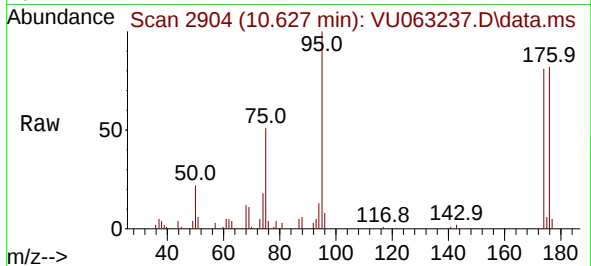




#57
4-Bromofluorobenzene
Concen: 1.007 ug/l
RT: 10.627 min Scan# 2904
Delta R.T. 0.003 min
Lab File: VU063237.D
Acq: 11 Feb 2025 15:45

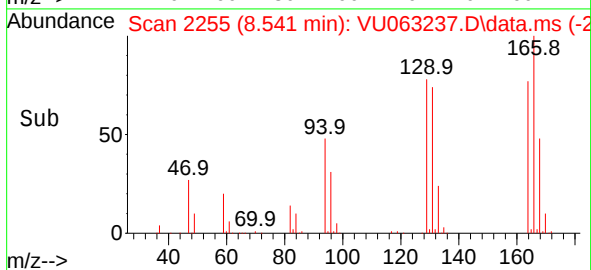
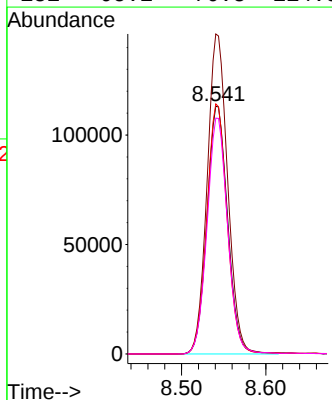
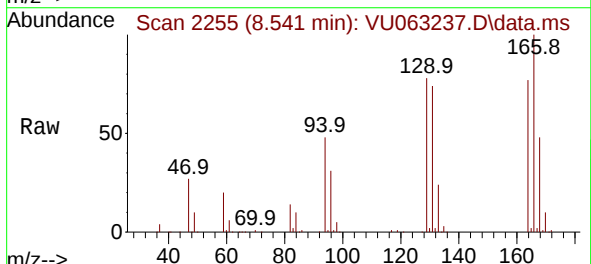
Instrument :
MSVOA_U
ClientSampleId :

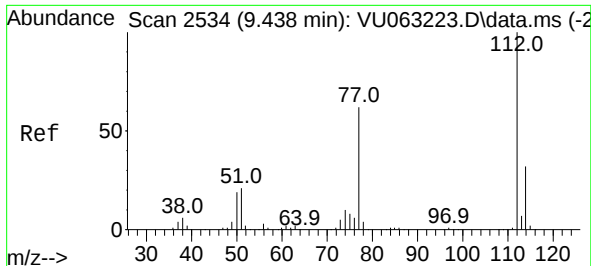
Tgt Ion: 95 Resp: 18048
Ion Ratio Lower Upper
95 100
174 77.4 58.6 88.0
176 77.1 58.2 87.4



#58
Tetrachloroethene
Concen: 14.799 ug/l
RT: 8.541 min Scan# 2255
Delta R.T. -0.003 min
Lab File: VU063237.D
Acq: 11 Feb 2025 15:45

Tgt Ion:164 Resp: 193632
Ion Ratio Lower Upper
164 100
166 129.1 101.4 152.0
129 100.9 77.0 115.4
131 95.1 76.3 114.5





#59

Chlorobenzene

Concen: 7.499 ug/l

RT: 9.434 min Scan# 2533

Delta R.T. -0.003 min

Lab File: VU063237.D

Acq: 11 Feb 2025 15:45

Instrument :

MSVOA_U

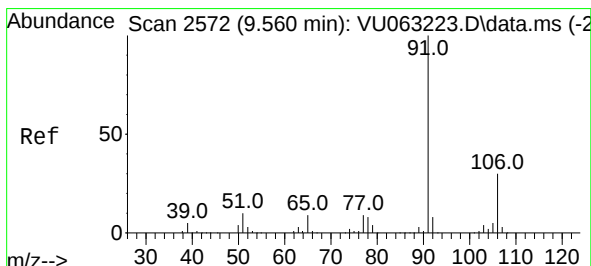
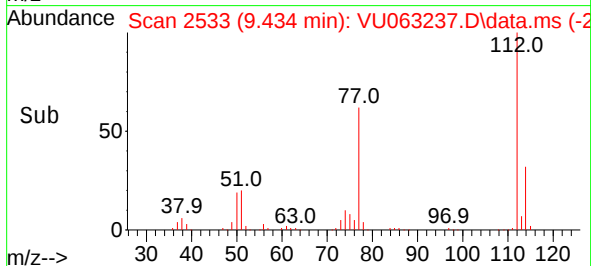
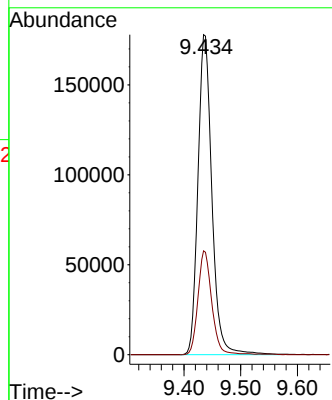
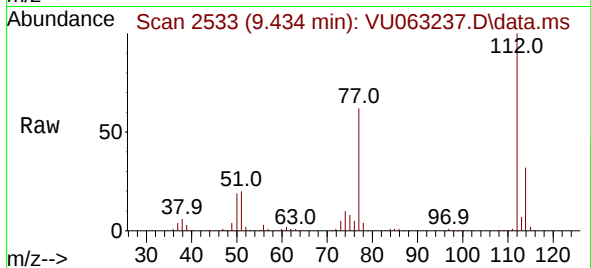
ClientSampleId :

Tgt Ion:112 Resp: 303811

Ion Ratio Lower Upper

112 100

114 32.4 25.7 38.5



#63

Ethyl Benzene

Concen: 5.051 ug/l

RT: 9.560 min Scan# 2572

Delta R.T. 0.000 min

Lab File: VU063237.D

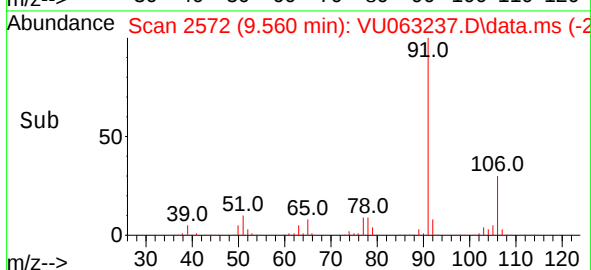
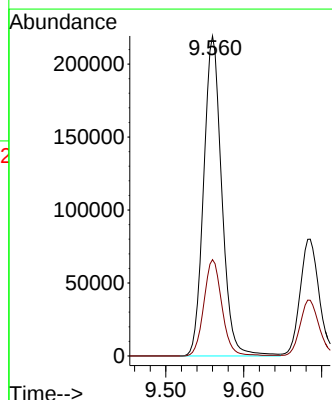
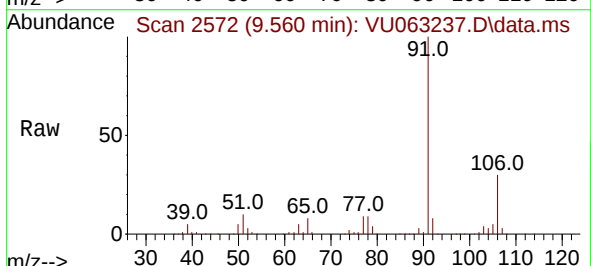
Acq: 11 Feb 2025 15:45

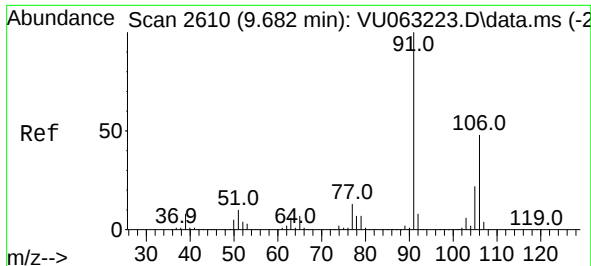
Tgt Ion: 91 Resp: 352913

Ion Ratio Lower Upper

91 100

106 30.1 24.2 36.2

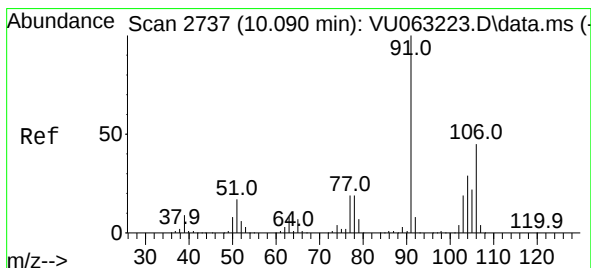
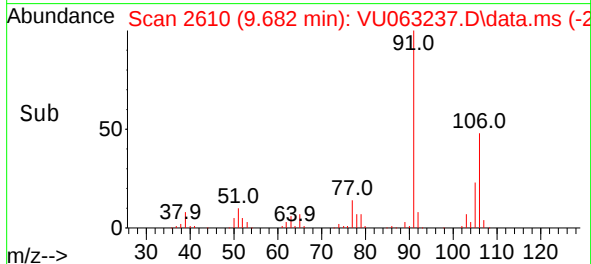
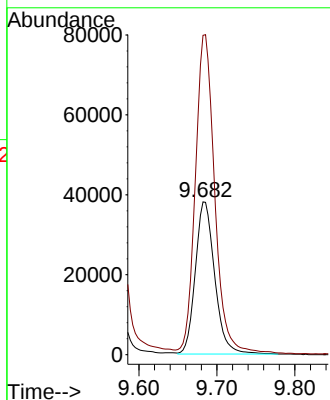
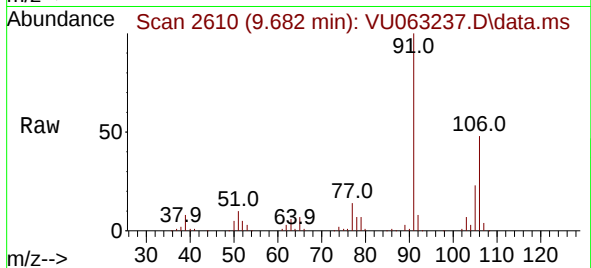




#64
m/p-Xylenes
Concen: 2.519 ug/l
RT: 9.682 min Scan# 2610
Delta R.T. 0.000 min
Lab File: VU063237.D
Acq: 11 Feb 2025 15:45

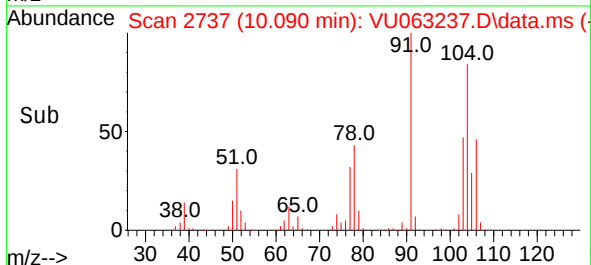
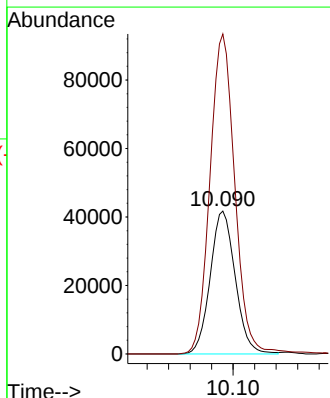
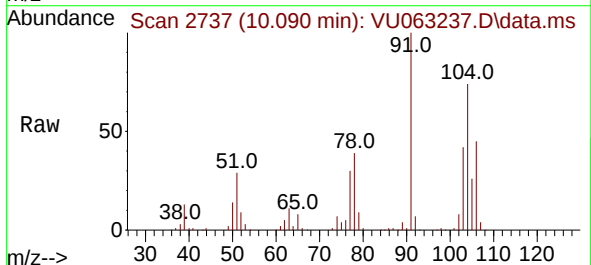
Instrument :
MSVOA_U
ClientSampleId :

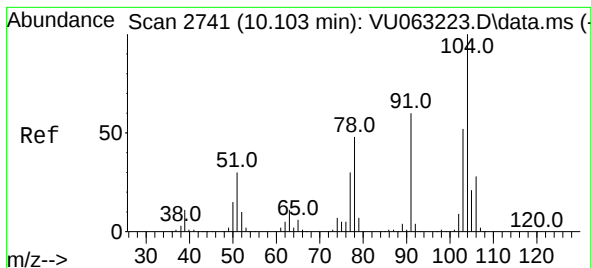
Tgt Ion:106 Resp: 65739
Ion Ratio Lower Upper
106 100
91 212.0 166.9 250.3



#65
o-Xylene
Concen: 2.639 ug/l
RT: 10.090 min Scan# 2737
Delta R.T. 0.000 min
Lab File: VU063237.D
Acq: 11 Feb 2025 15:45

Tgt Ion:106 Resp: 67433
Ion Ratio Lower Upper
106 100
91 223.3 110.9 332.9





#66

Styrene

Concen: 7.609 ug/l

RT: 10.103 min Scan# 21

Delta R.T. 0.000 min

Lab File: VU063237.D

Acq: 11 Feb 2025 15:45

Instrument :

MSVOA_U

ClientSampleId :

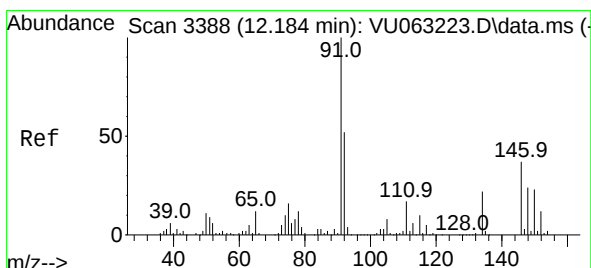
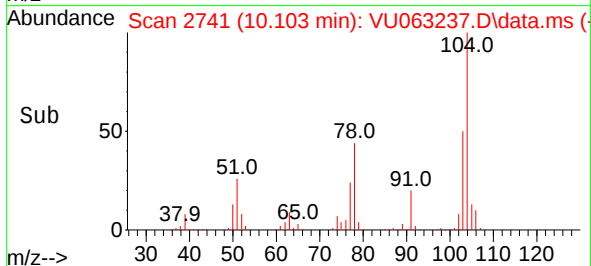
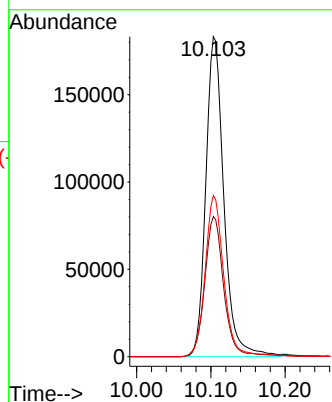
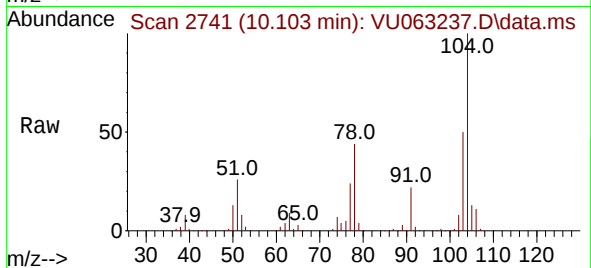
Tgt Ion:104 Resp: 309385

Ion Ratio Lower Upper

104 100

78 46.1 41.2 61.8

103 52.4 44.8 67.2



#68

1,2-Dichlorobenzene-d4

Concen: 0.983 ug/l

RT: 12.184 min Scan# 3388

Delta R.T. 0.000 min

Lab File: VU063237.D

Acq: 11 Feb 2025 15:45

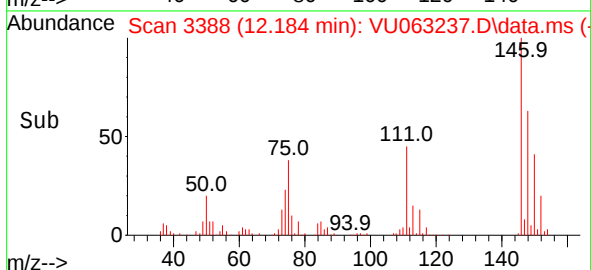
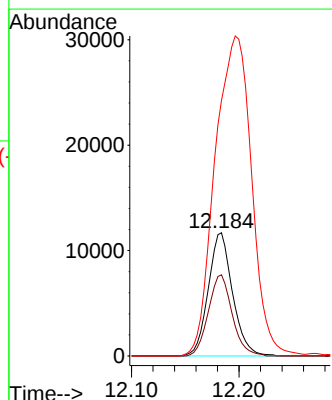
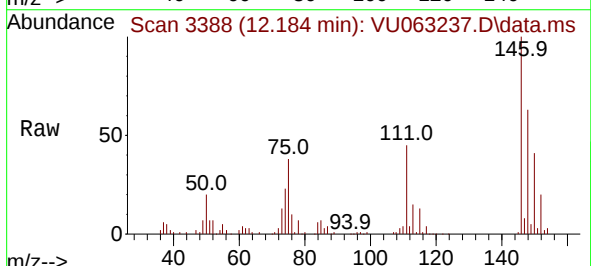
Tgt Ion:152 Resp: 18316

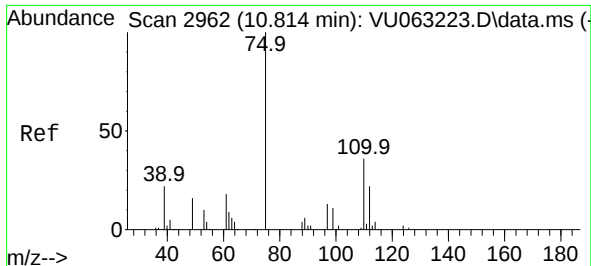
Ion Ratio Lower Upper

152 100

115 64.4 0.0 275.2

150 391.3 0.0 658.4

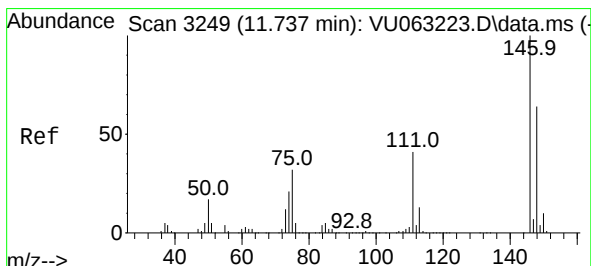
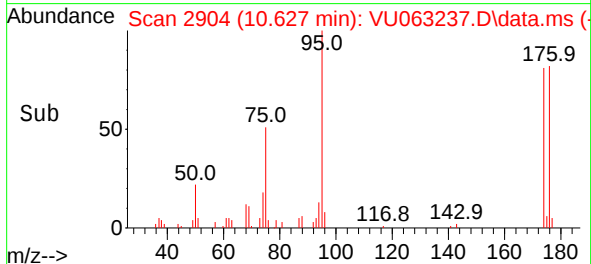
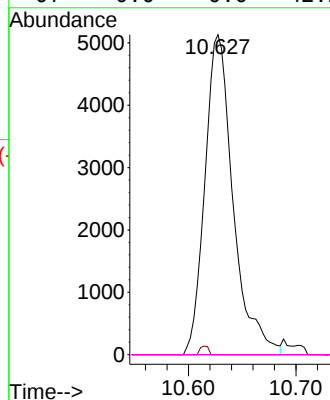
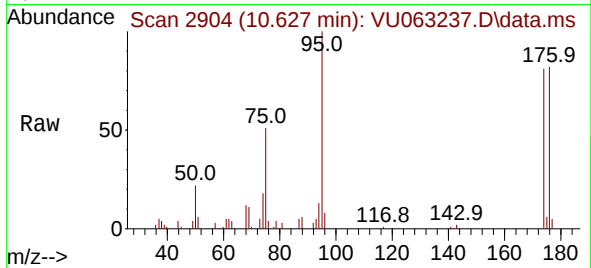




#71
1,2,3-Trichloropropane
Concen: 0.776 ug/l
RT: 10.627 min Scan# 2962
Delta R.T. -0.186 min
Lab File: VU063237.D
Acq: 11 Feb 2025 15:45

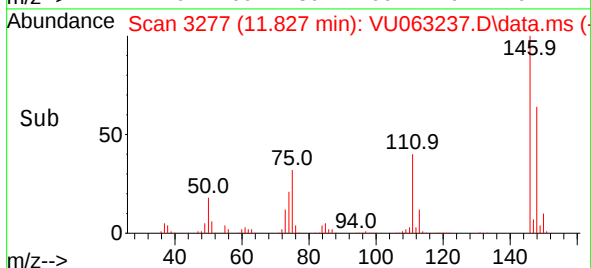
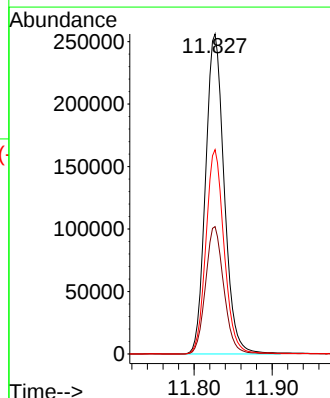
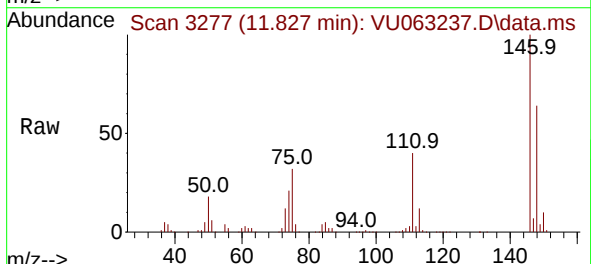
Instrument :
MSVOA_U
ClientSampleId :

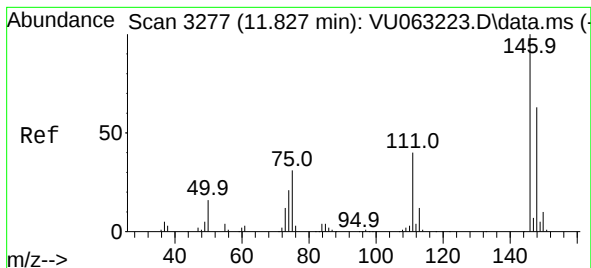
Tgt Ion: 75 Resp: 9369
Ion Ratio Lower Upper
75 100
77 0.8 0.0 0.0#
110 0.0 0.0 77.0
97 0.0 0.0 42.2



#82
1,3-Dichlorobenzene
Concen: 13.571 ug/l
RT: 11.827 min Scan# 3277
Delta R.T. 0.090 min
Lab File: VU063237.D
Acq: 11 Feb 2025 15:45

Tgt Ion:146 Resp: 426032
Ion Ratio Lower Upper
146 100
111 39.2 32.8 49.2
148 62.6 51.1 76.7





#83

1,4-Dichlorobenzene

Concen: 13.875 ug/l

RT: 11.827 min Scan# 3277

Delta R.T. 0.000 min

Lab File: VU063237.D

Acq: 11 Feb 2025 15:45

Instrument :

MSVOA_U

ClientSampleId :

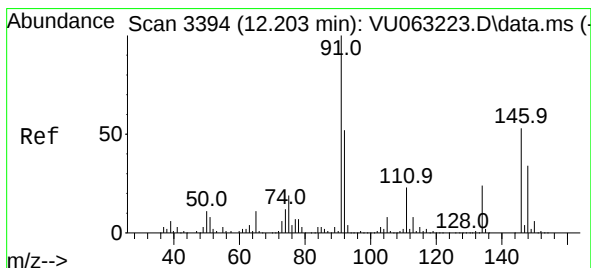
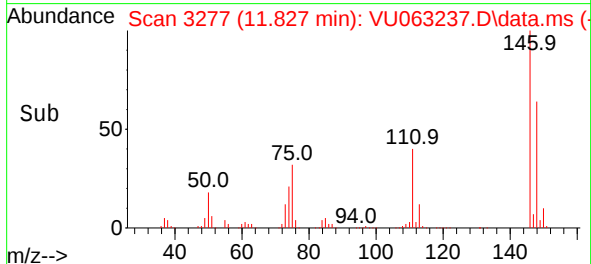
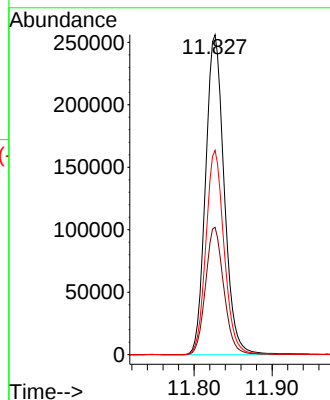
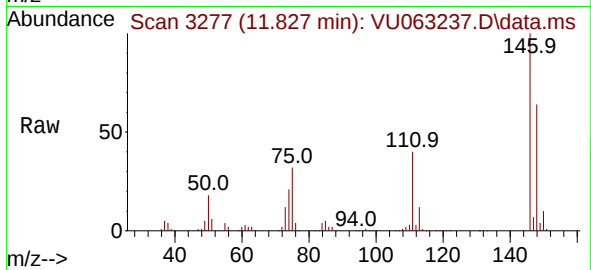
Tgt Ion:146 Resp: 426032

Ion Ratio Lower Upper

146 100

111 39.2 32.1 48.1

148 62.6 50.2 75.4



#85

1,2-Dichlorobenzene

Concen: 13.589 ug/l

RT: 12.200 min Scan# 3393

Delta R.T. -0.003 min

Lab File: VU063237.D

Acq: 11 Feb 2025 15:45

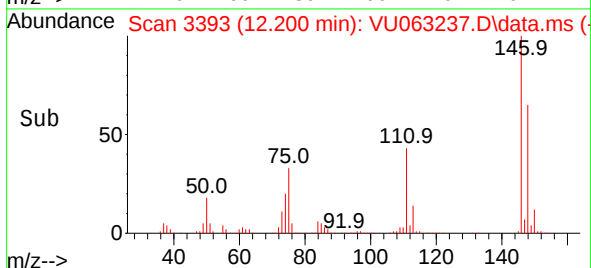
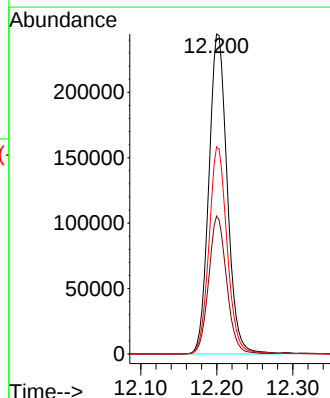
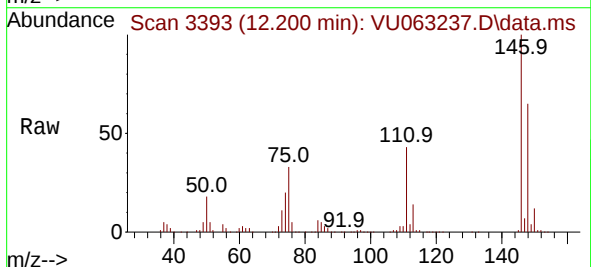
Tgt Ion:146 Resp: 409950

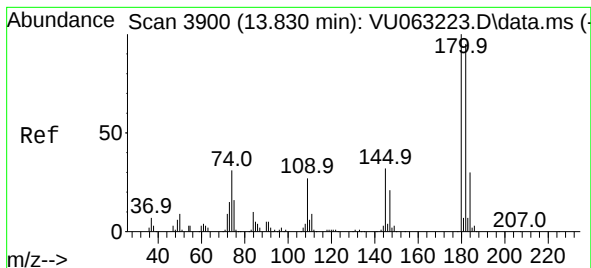
Ion Ratio Lower Upper

146 100

111 42.2 21.9 65.7

148 64.0 32.3 96.9





#87

1,2,4-Trichlorobenzene

Concen: 12.614 ug/l

RT: 13.830 min Scan# 3900

Delta R.T. 0.000 min

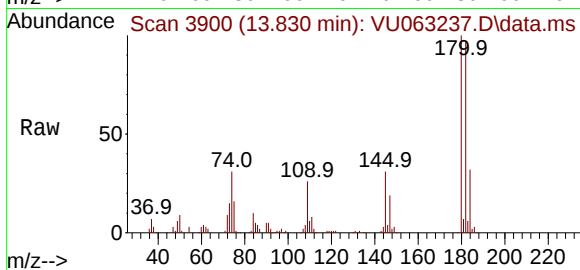
Lab File: VU063237.D

Acq: 11 Feb 2025 15:45

Instrument :

MSVOA_U

ClientSampleId :



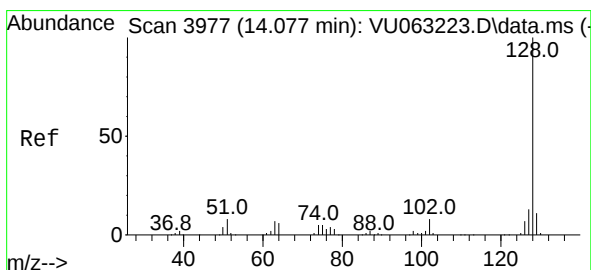
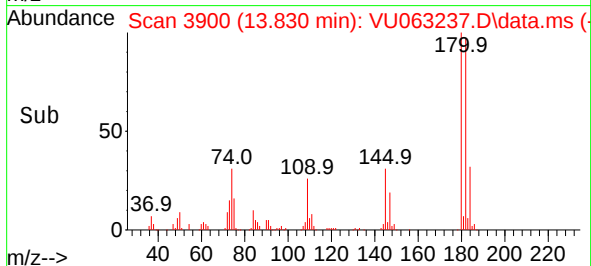
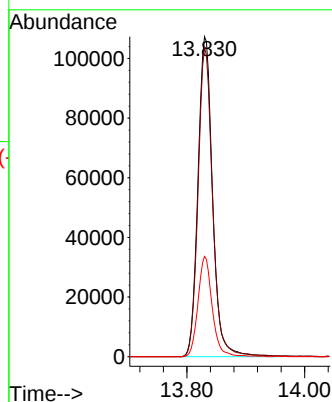
Tgt Ion:180 Resp: 185597

Ion Ratio Lower Upper

180 100

182 95.5 76.6 115.0

145 30.5 25.4 38.2



#89

Naphthalene

Concen: 0.679 ug/l

RT: 14.106 min Scan# 3986

Delta R.T. 0.029 min

Lab File: VU063237.D

Acq: 11 Feb 2025 15:45

Tgt Ion:128 Resp: 743

Ion Ratio Lower Upper

128 100

127 0.0 10.6 16.0#

129 0.0 8.6 13.0#

