

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU111125\
 Data File : VU063700.D
 Acq On : 11 Nov 2025 12:08
 Operator : MD/SY
 Sample : VU1111WBL01
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VU1111WBL01

Quant Time: Nov 12 02:10:26 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\82U111025W.M
 Quant Title : SW846 8260
 QLast Update : Tue Nov 11 01:41:19 2025
 Response via : Initial Calibration

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

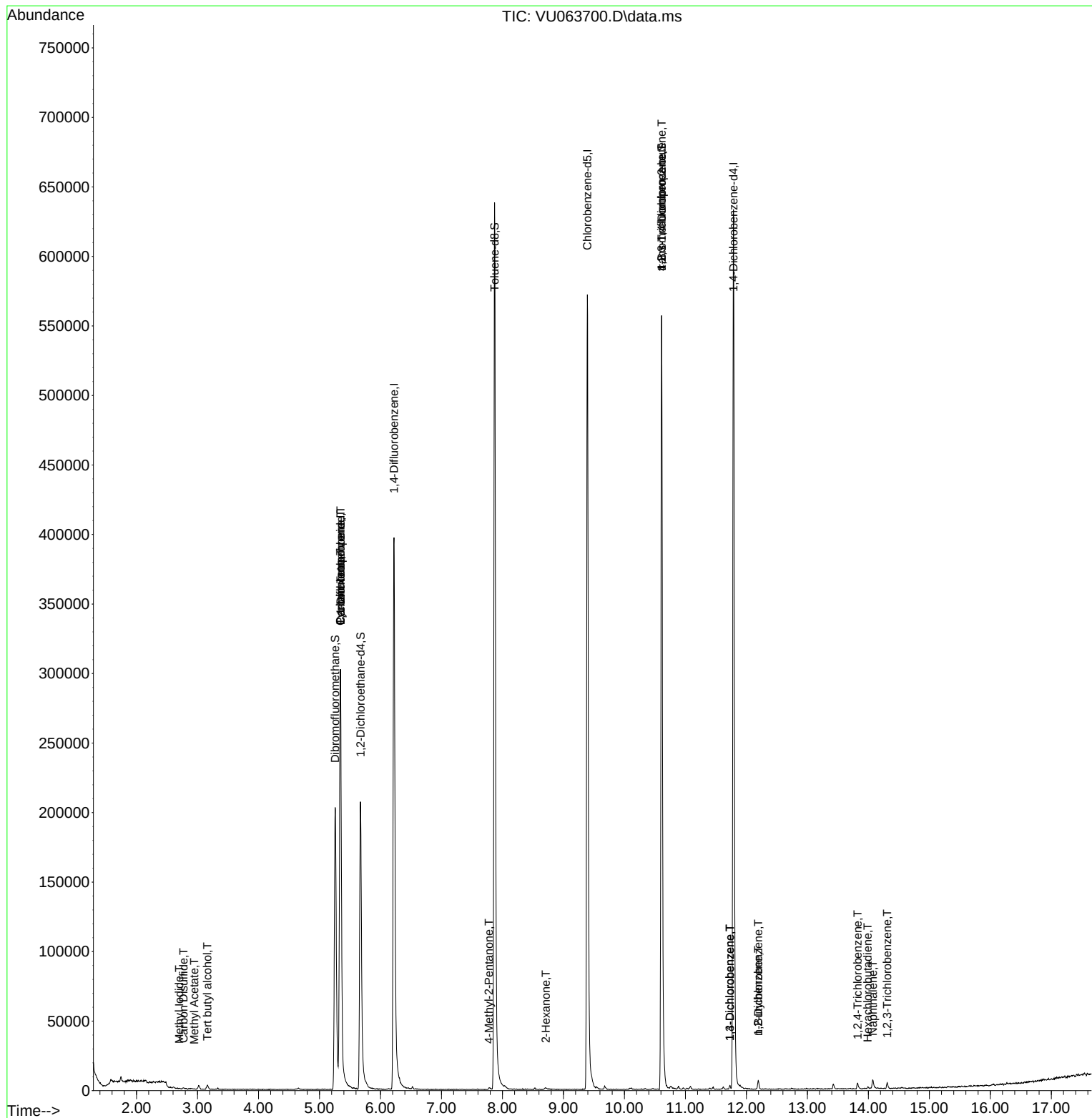
Internal Standards						
1) Pentafluorobenzene	5.344	168	222016	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.222	114	358861	50.000	ug/l	0.00
63) Chlorobenzene-d5	9.393	117	332447	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.788	152	173387	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.672	65	171373	52.253	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 104.500%			
35) Dibromofluoromethane	5.258	113	141570	56.325	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 112.640%			
50) Toluene-d8	7.872	98	451293	49.979	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 99.960%			
62) 4-Bromofluorobenzene	10.611	95	198616	53.173	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 106.340%			
Target Compounds						
					Qvalue	
3) Chloromethane	1.509	50	277	Below Cal	#	42
5) Bromomethane	1.840	94	234	Below Cal	#	28
10) Methyl Iodide	2.701	142	64	2.994	ug/l #	38
11) Tert butyl alcohol	3.161	59	1076	1.406	ug/l #	73
13) Acrolein	2.480	56	285	Below Cal	#	49
16) Acetone	2.602	43	498	Below Cal		96
17) Carbon Disulfide	2.772	76	856	0.276	ug/l #	76
18) Methyl Acetate	2.946	43	21	1.569	ug/l #	49
31) Cyclohexane	5.341	56	5312	0.291	ug/l #	17
36) 1,1-Dichloropropene	5.344	75	18306	7.156	ug/l #	50
38) Carbon Tetrachloride	5.344	117	22648	8.191	ug/l #	16
51) 4-Methyl-2-Pentanone	7.778	43	1109	0.273	ug/l #	81
59) 2-Hexanone	8.711	43	1353	0.447	ug/l	78
76) 1,2,3-Trichloropropane	10.611	75	109443	25.048	ug/l #	100
81) trans-1,4-Dichloro-2-b...	10.611	75	109443	133.437	ug/l #	7
87) 1,3-Dichlorobenzene	11.730	146	1392	0.270	ug/l	86
88) 1,4-Dichlorobenzene	11.730	146	1392	0.258	ug/l	86
89) n-Butylbenzene	12.193	91	3004	0.339	ug/l	96
91) 1,2-Dichlorobenzene	12.193	146	1095	0.213	ug/l	84
93) 1,2,4-Trichlorobenzene	13.826	180	1516	0.463	ug/l	96
94) Hexachlorobutadiene	13.990	225	368	0.223	ug/l	87
95) Naphthalene	14.074	128	7029	0.792	ug/l #	88
96) 1,2,3-Trichlorobenzene	14.309	180	1640	0.538	ug/l	97

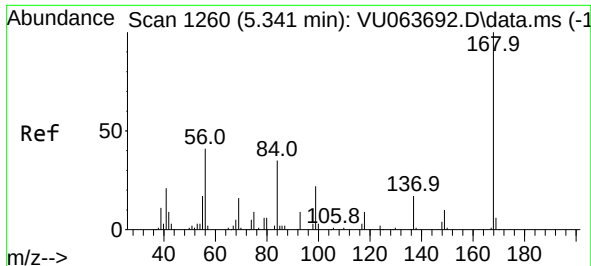
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU111125\
Data File : VU063700.D
Acq On : 11 Nov 2025 12:08
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Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
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ClientSampleId :
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Quant Time: Nov 12 02:10:26 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\82U111025W.M
Quant Title : SW846 8260
QLast Update : Tue Nov 11 01:41:19 2025
Response via : Initial Calibration

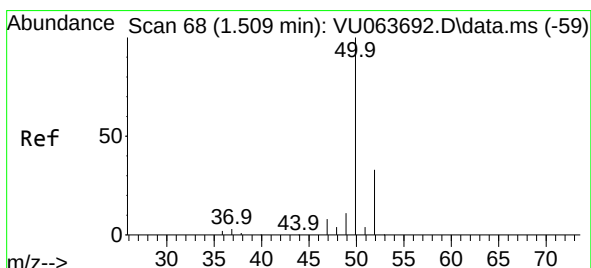
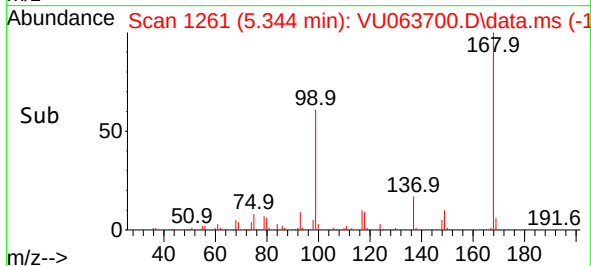
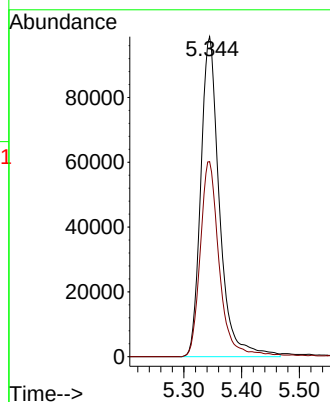
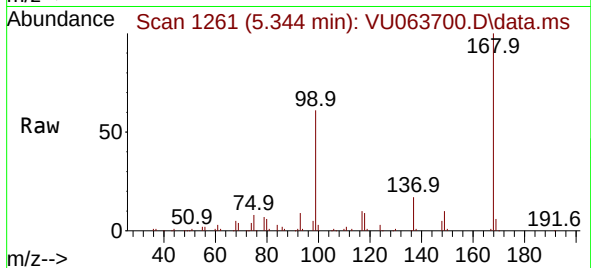




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.344 min Scan# 11
Delta R.T. 0.003 min
Lab File: VU063700.D
Acq: 11 Nov 2025 12:08

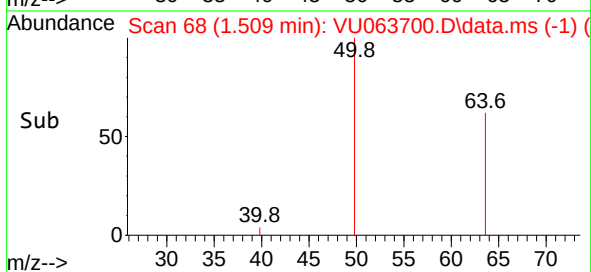
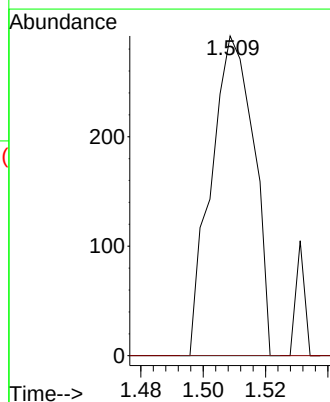
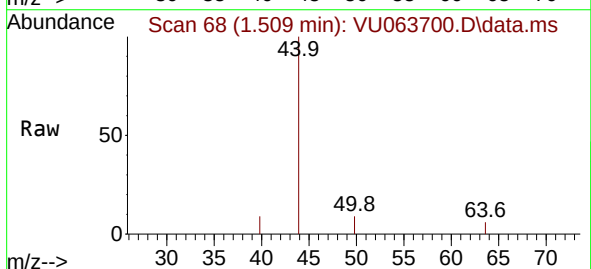
Instrument :
MSVOA_U
ClientSampleId :
VU1111WBL01

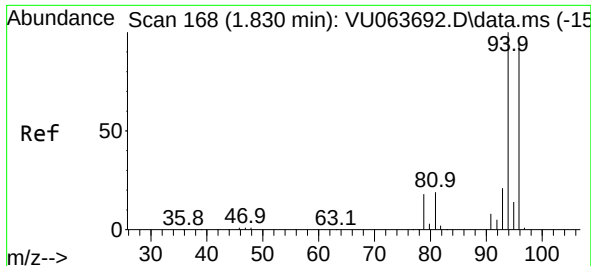
Tgt Ion:168 Resp: 222016
Ion Ratio Lower Upper
168 100
99 61.0 48.2 72.4



#3
Chloromethane
Concen: Below Cal
RT: 1.509 min Scan# 68
Delta R.T. -0.000 min
Lab File: VU063700.D
Acq: 11 Nov 2025 12:08

Tgt Ion: 50 Resp: 277
Ion Ratio Lower Upper
50 100
52 0.0 26.3 39.5#

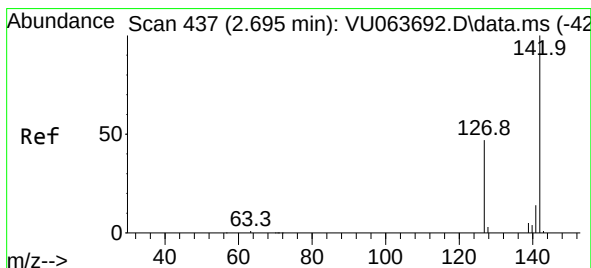
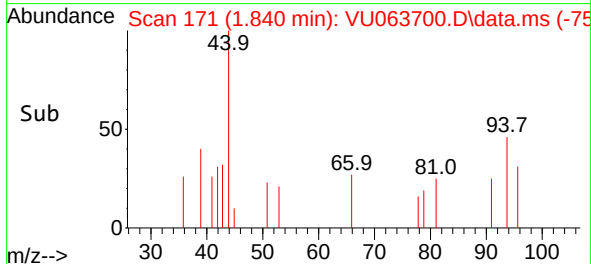
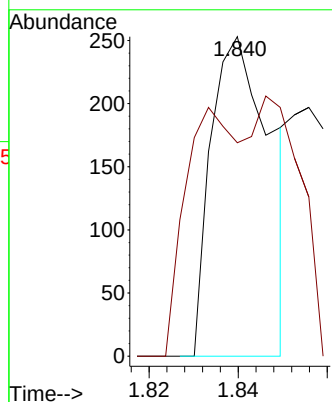
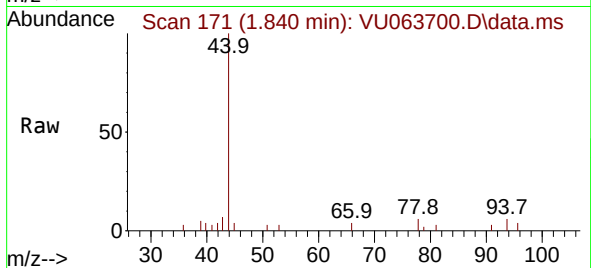




#5
Bromomethane
Concen: Below Cal
RT: 1.840 min Scan# 11
Delta R.T. 0.010 min
Lab File: VU063700.D
Acq: 11 Nov 2025 12:08

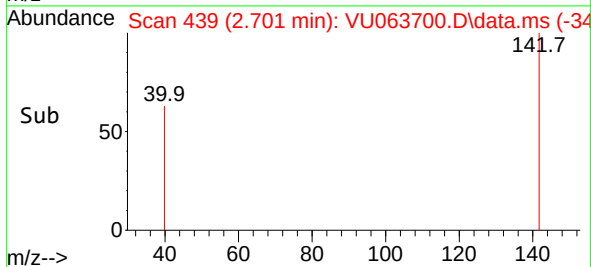
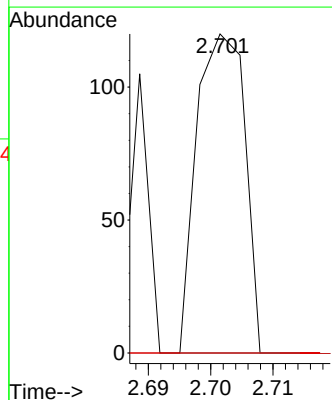
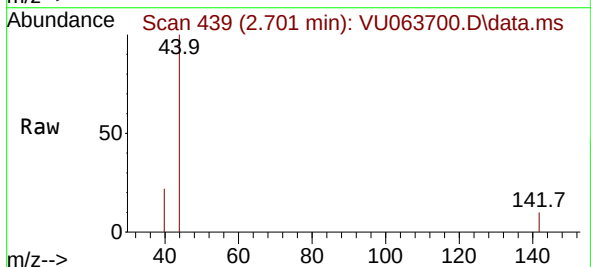
Instrument :
MSVOA_U
ClientSampleId :
VU1111WBL01

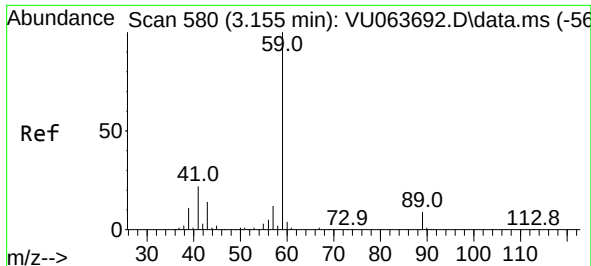
Tgt Ion: 94 Resp: 234
Ion Ratio Lower Upper
94 100
96 24.1 74.8 112.2#



#10
Methyl Iodide
Concen: 2.994 ug/l
RT: 2.701 min Scan# 439
Delta R.T. 0.006 min
Lab File: VU063700.D
Acq: 11 Nov 2025 12:08

Tgt Ion: 142 Resp: 64
Ion Ratio Lower Upper
142 100
127 0.0 37.2 55.8#
141 0.0 11.4 17.0#

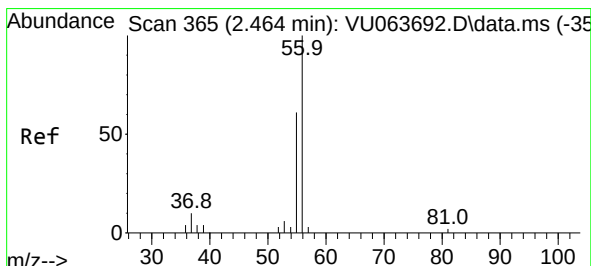
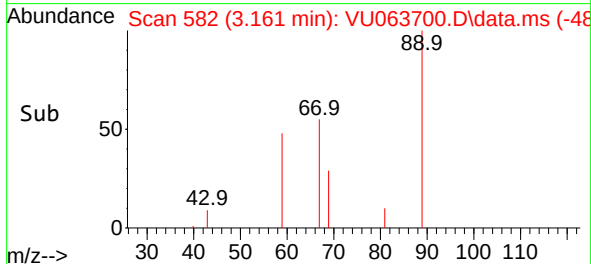
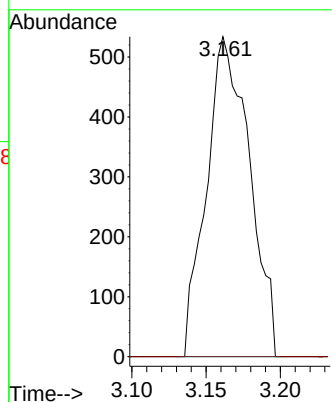
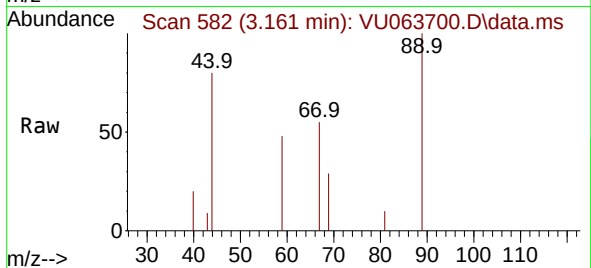




#11
Tert butyl alcohol
Concen: 1.406 ug/l
RT: 3.161 min Scan# 51
Delta R.T. 0.006 min
Lab File: VU063700.D
Acq: 11 Nov 2025 12:08

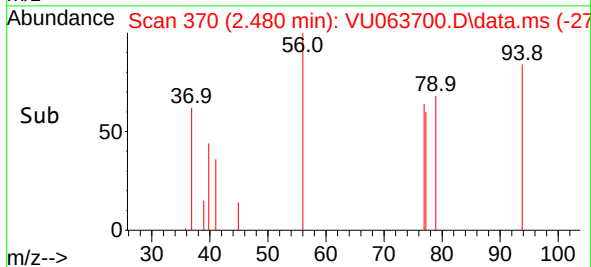
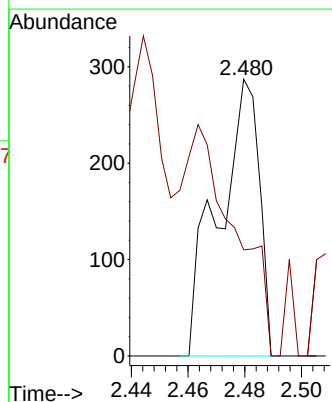
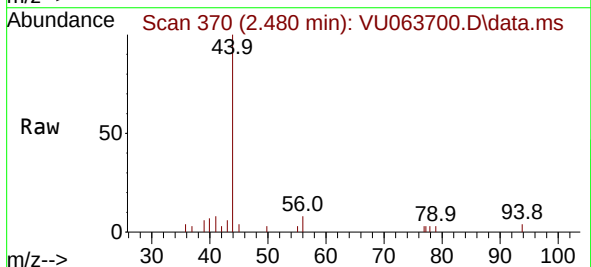
Instrument :
MSVOA_U
ClientSampleId :
VU1111WBL01

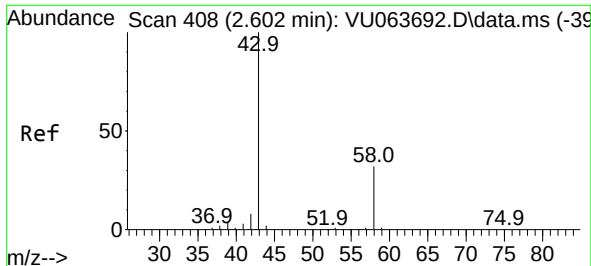
Tgt Ion: 59 Resp: 1076
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.2#



#13
Acrolein
Concen: Below Cal
RT: 2.480 min Scan# 370
Delta R.T. 0.016 min
Lab File: VU063700.D
Acq: 11 Nov 2025 12:08

Tgt Ion: 56 Resp: 285
Ion Ratio Lower Upper
56 100
55 97.2 47.1 70.7#

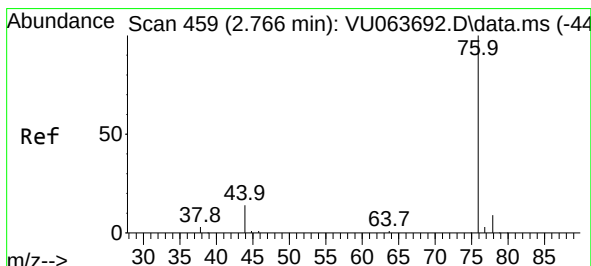
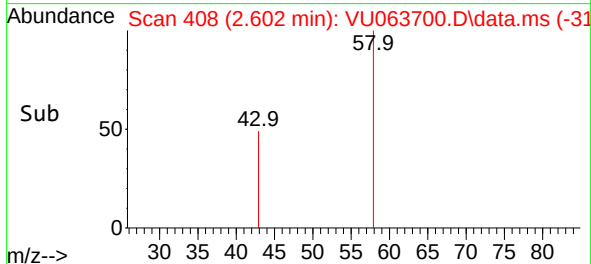
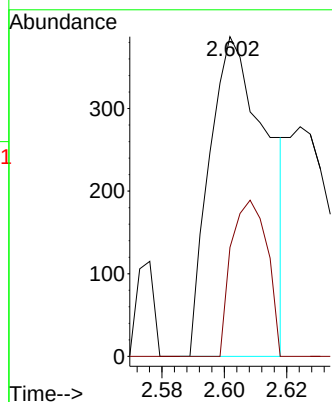
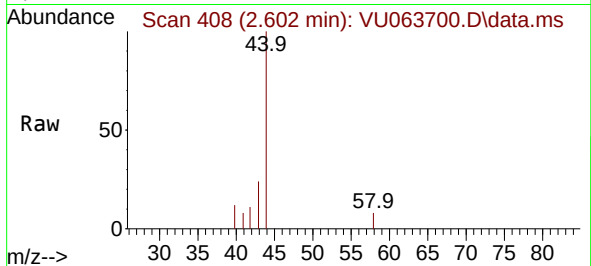




#16
Acetone
Concen: Below Cal
RT: 2.602 min Scan# 408
Delta R.T. -0.000 min
Lab File: VU063700.D
Acq: 11 Nov 2025 12:08

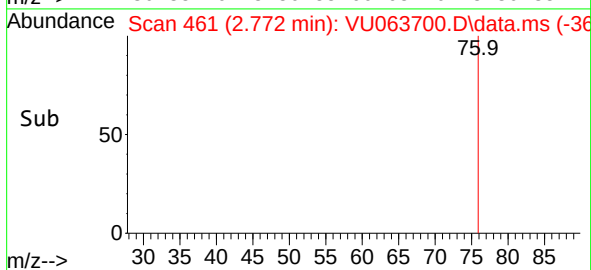
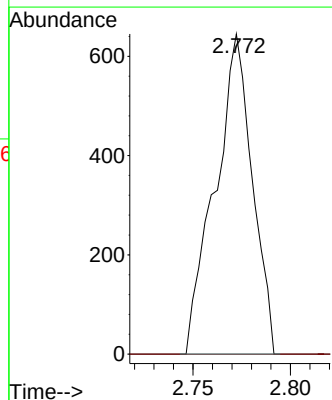
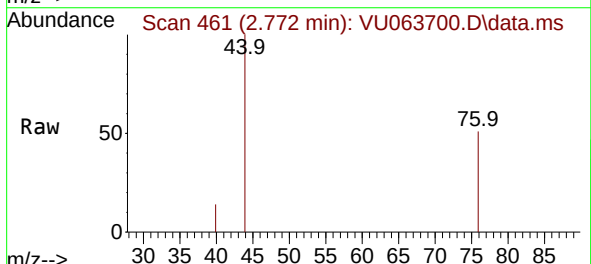
Instrument :
MSVOA_U
ClientSampleId :
VU1111WBL01

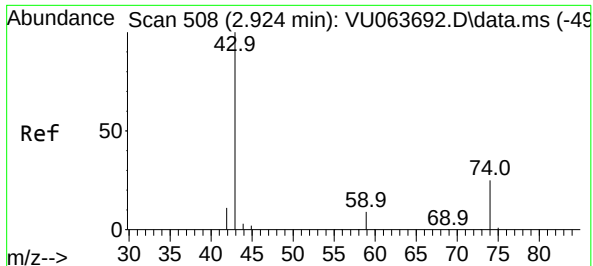
Tgt Ion: 43 Resp: 498
Ion Ratio Lower Upper
43 100
58 34.1 25.4 38.2



#17
Carbon Disulfide
Concen: 0.276 ug/l
RT: 2.772 min Scan# 461
Delta R.T. 0.006 min
Lab File: VU063700.D
Acq: 11 Nov 2025 12:08

Tgt Ion: 76 Resp: 856
Ion Ratio Lower Upper
76 100
78 0.0 7.0 10.6#

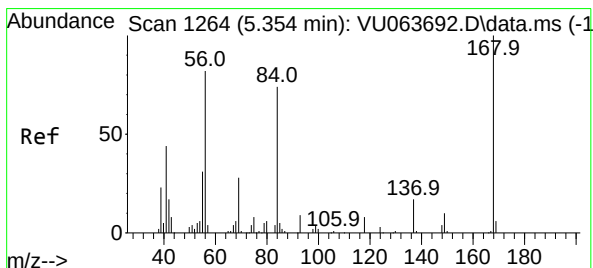
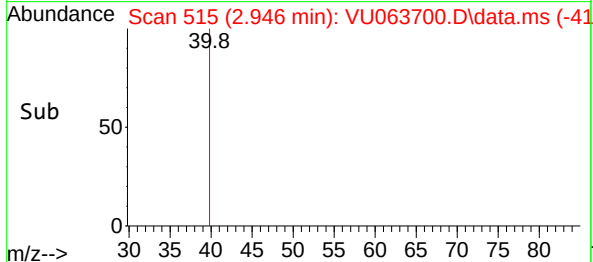
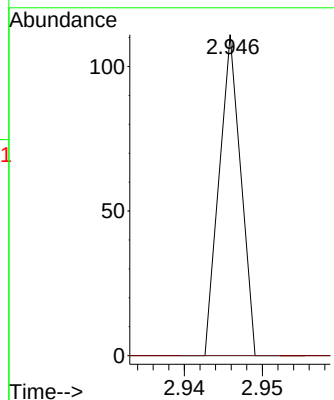
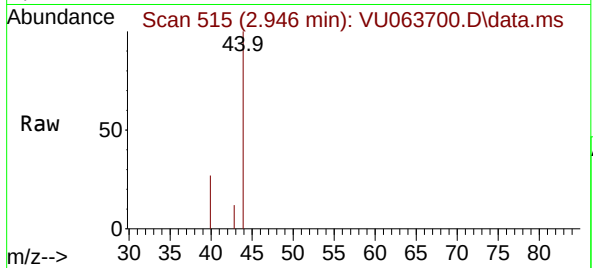




#18
Methyl Acetate
Concen: 1.569 ug/l
RT: 2.946 min Scan# 51
Delta R.T. 0.022 min
Lab File: VU063700.D
Acq: 11 Nov 2025 12:08

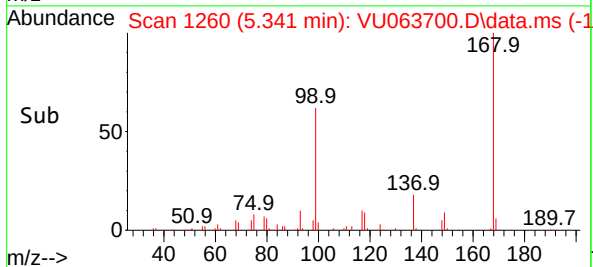
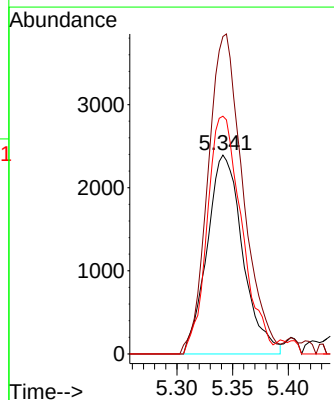
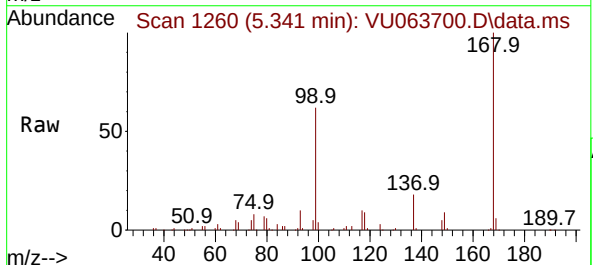
Instrument :
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ClientSampleId :
VU1111WBL01

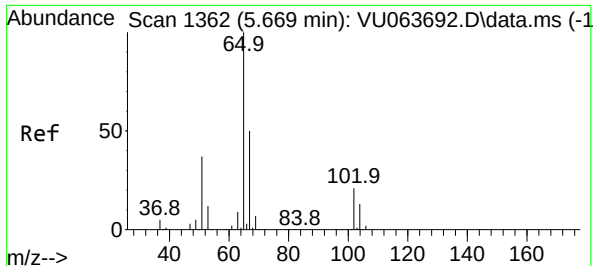
Tgt Ion: 43 Resp: 21
Ion Ratio Lower Upper
43 100
74 0.0 20.6 31.0#



#31
Cyclohexane
Concen: 0.291 ug/l
RT: 5.341 min Scan# 1260
Delta R.T. -0.013 min
Lab File: VU063700.D
Acq: 11 Nov 2025 12:08

Tgt Ion: 56 Resp: 5312
Ion Ratio Lower Upper
56 100
69 159.7 27.0 40.6#
84 119.6 71.8 107.6#





#33

1,2-Dichloroethane-d4

Concen: 52.253 ug/l

RT: 5.672 min Scan# 1

Delta R.T. 0.003 min

Lab File: VU063700.D

Acq: 11 Nov 2025 12:08

Instrument :

MSVOA_U

ClientSampleId :

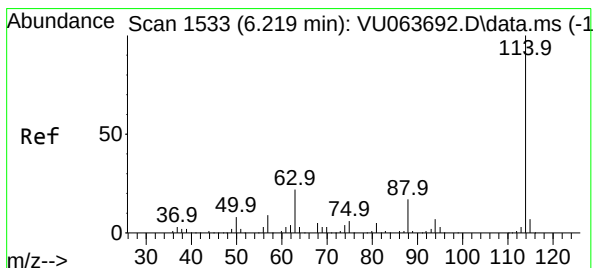
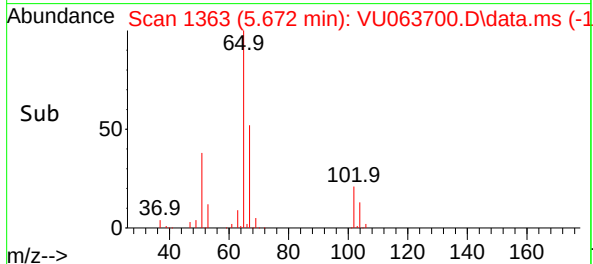
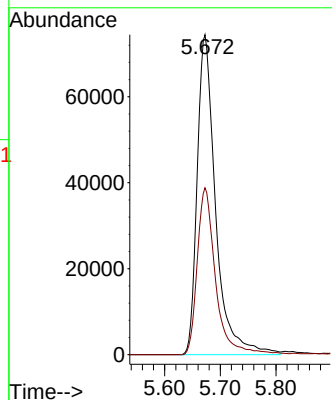
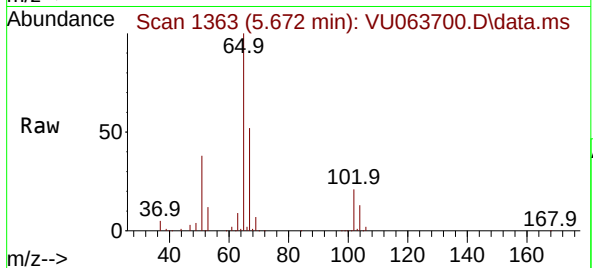
VU1111WBL01

Tgt Ion: 65 Resp: 171373

Ion Ratio Lower Upper

65 100

67 51.7 0.0 101.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.222 min Scan# 1534

Delta R.T. 0.003 min

Lab File: VU063700.D

Acq: 11 Nov 2025 12:08

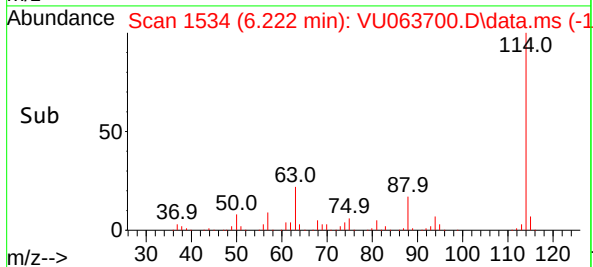
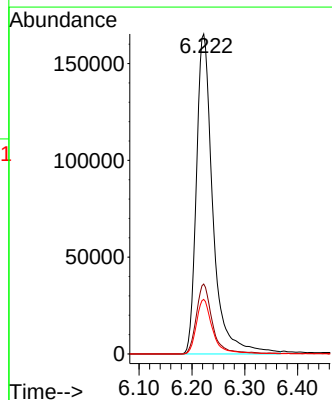
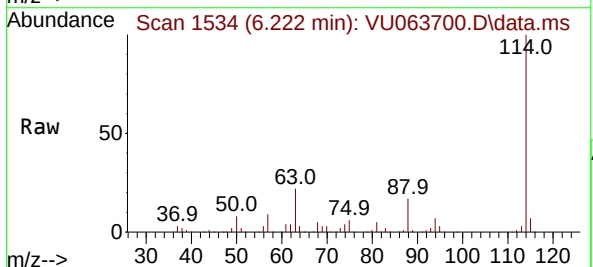
Tgt Ion: 114 Resp: 358861

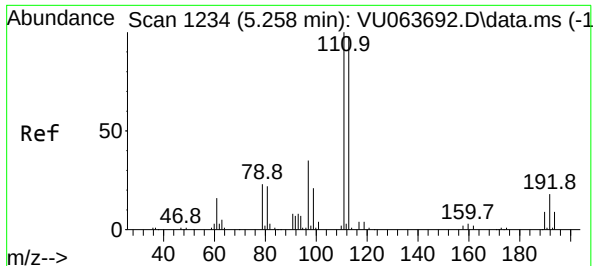
Ion Ratio Lower Upper

114 100

63 21.8 0.0 44.0

88 17.1 0.0 33.6

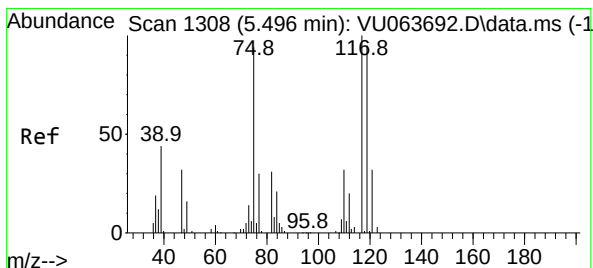
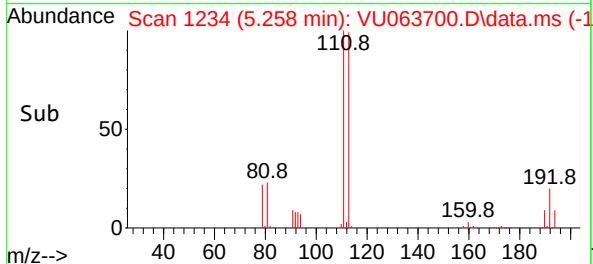
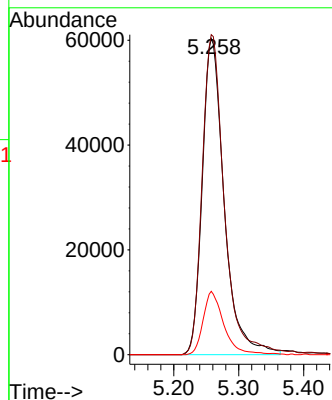
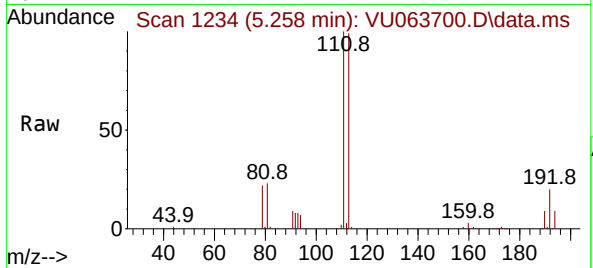




#35
Dibromofluoromethane
Concen: 56.325 ug/l
RT: 5.258 min Scan# 11
Delta R.T. -0.000 min
Lab File: VU063700.D
Acq: 11 Nov 2025 12:08

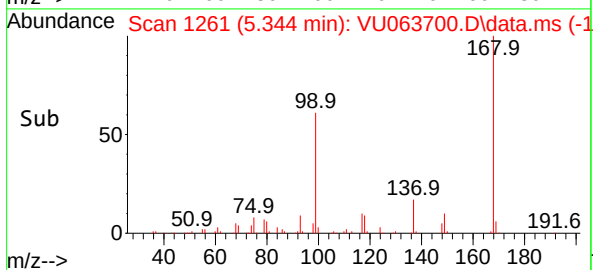
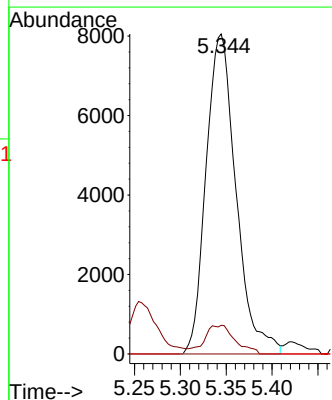
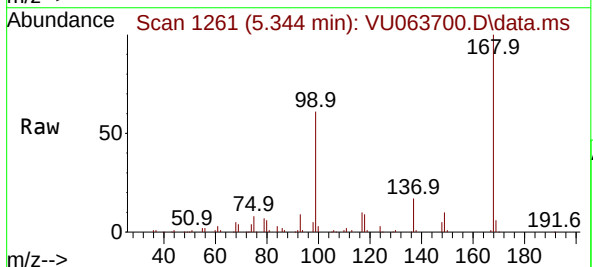
Instrument :
MSVOA_U
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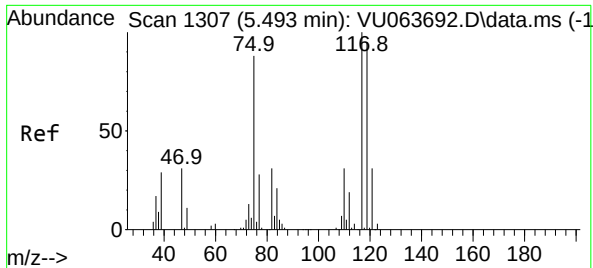
Tgt Ion:113 Resp: 141570
Ion Ratio Lower Upper
113 100
111 102.1 82.4 123.6
192 18.8 15.4 23.0



#36
1,1-Dichloropropene
Concen: 7.156 ug/l
RT: 5.344 min Scan# 1261
Delta R.T. -0.151 min
Lab File: VU063700.D
Acq: 11 Nov 2025 12:08

Tgt Ion: 75 Resp: 18306
Ion Ratio Lower Upper
75 100
110 9.0 17.3 51.7#
77 0.0 24.4 36.6#

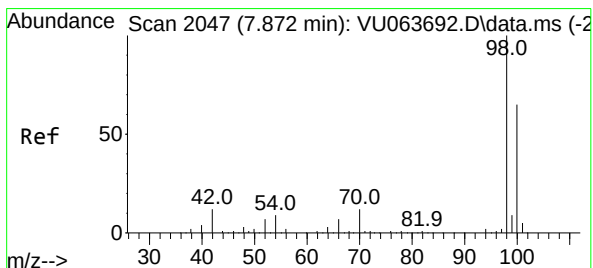
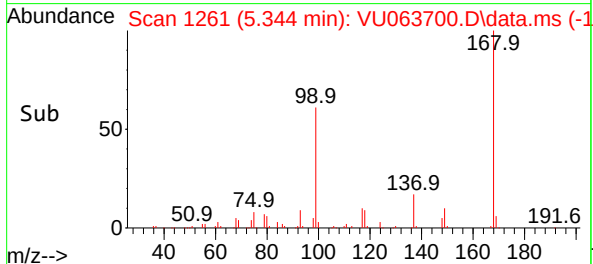
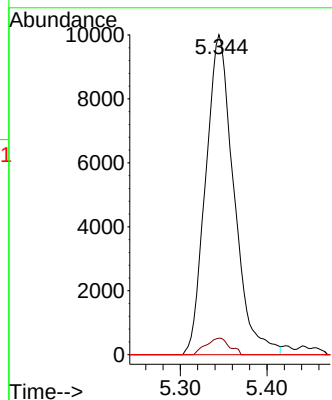
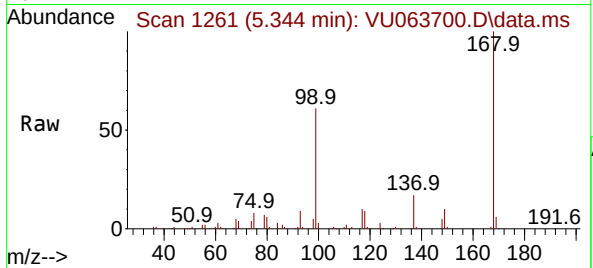




#38
Carbon Tetrachloride
Concen: 8.191 ug/l
RT: 5.344 min Scan# 117
Delta R.T. -0.148 min
Lab File: VU063700.D
Acq: 11 Nov 2025 12:08

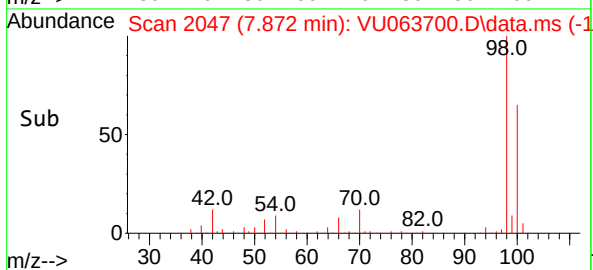
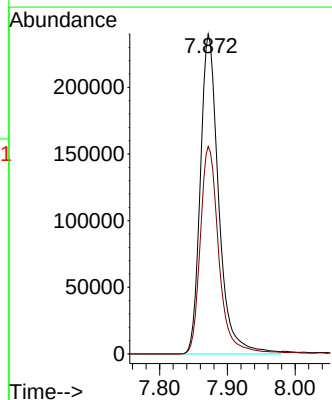
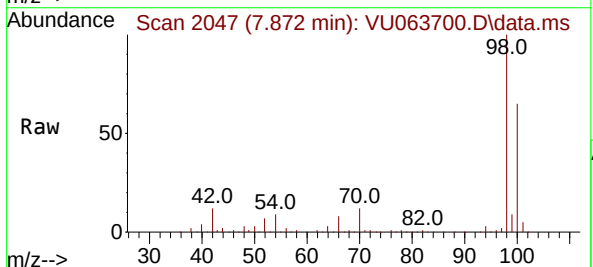
Instrument :
MSVOA_U
ClientSampleId :
VU1111WBL01

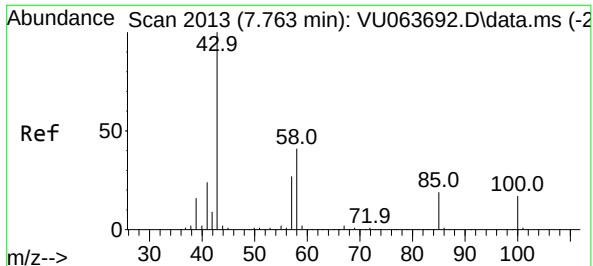
Tgt Ion:117 Resp: 22648
Ion Ratio Lower Upper
117 100
119 5.2 76.1 114.1#
121 0.0 24.6 37.0#



#50
Toluene-d8
Concen: 49.979 ug/l
RT: 7.872 min Scan# 2047
Delta R.T. -0.000 min
Lab File: VU063700.D
Acq: 11 Nov 2025 12:08

Tgt Ion: 98 Resp: 451293
Ion Ratio Lower Upper
98 100
100 65.8 52.5 78.7





#51

4-Methyl-2-Pentanone

Concen: 0.273 ug/l

RT: 7.778 min Scan# 2013

Delta R.T. 0.016 min

Lab File: VU063700.D

Acq: 11 Nov 2025 12:08

Instrument :

MSVOA_U

ClientSampleId :

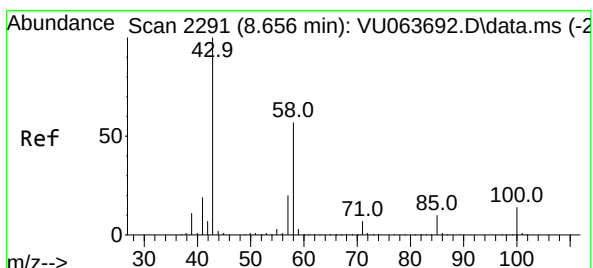
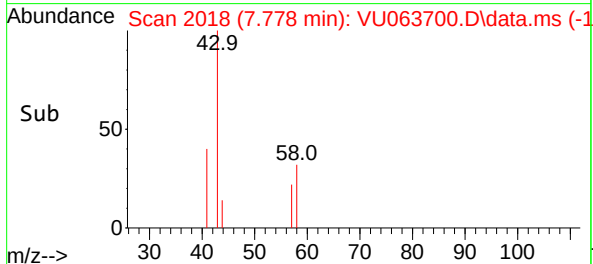
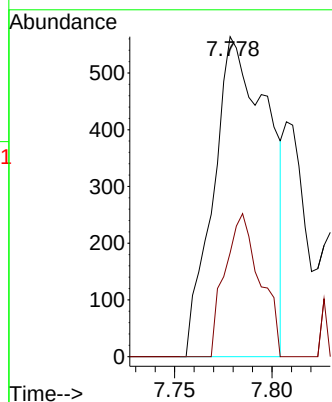
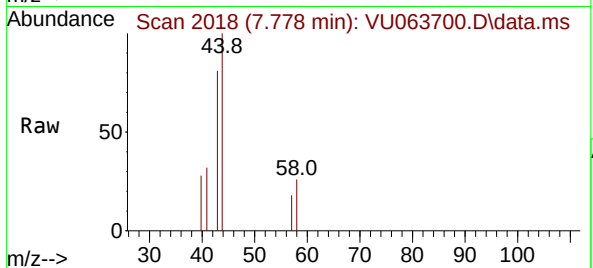
VU1111WBL01

Tgt Ion: 43 Resp: 1109

Ion Ratio Lower Upper

43 100

58 28.5 32.3 48.5#



#59

2-Hexanone

Concen: 0.447 ug/l

RT: 8.711 min Scan# 2308

Delta R.T. 0.054 min

Lab File: VU063700.D

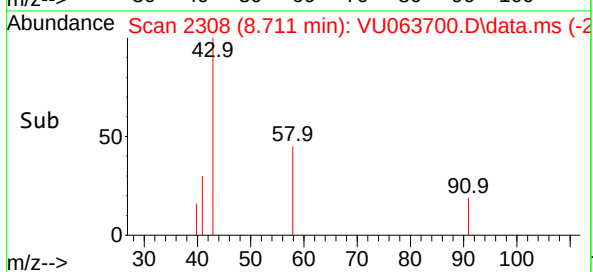
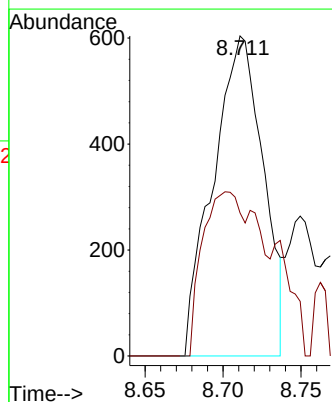
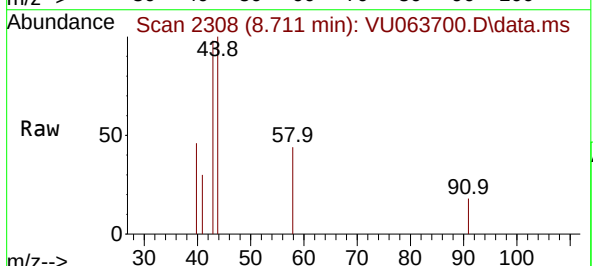
Acq: 11 Nov 2025 12:08

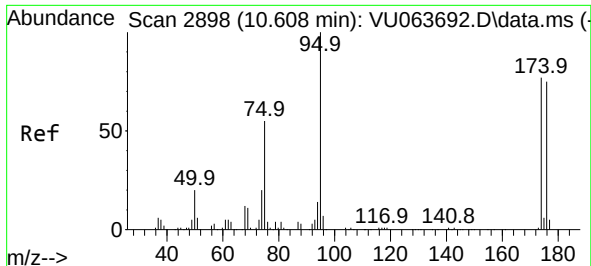
Tgt Ion: 43 Resp: 1353

Ion Ratio Lower Upper

43 100

58 41.0 28.4 85.3

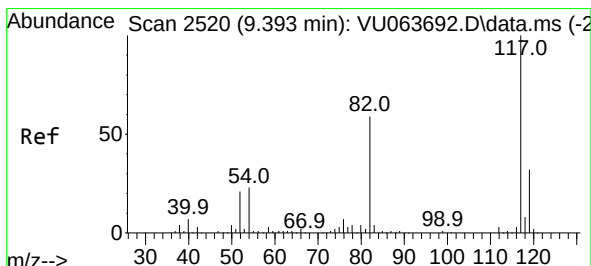
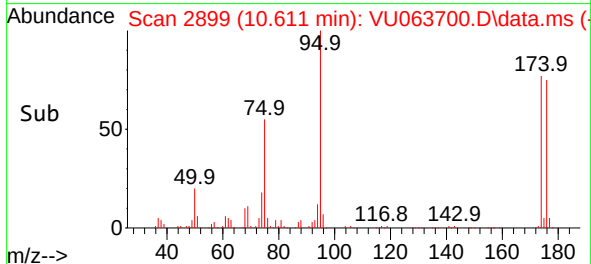
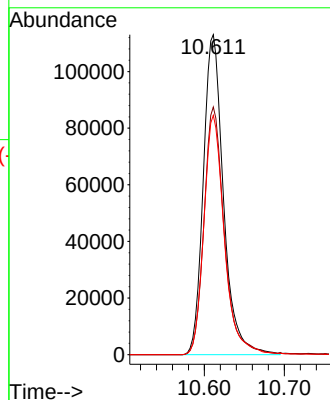
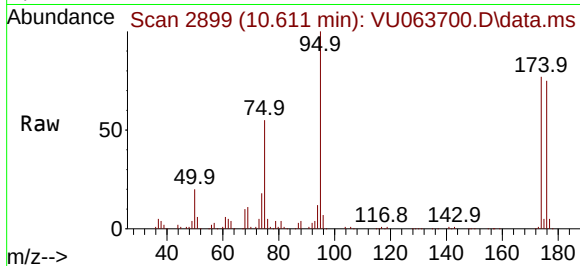




#62
4-Bromofluorobenzene
Concen: 53.173 ug/l
RT: 10.611 min Scan# 2899
Delta R.T. 0.003 min
Lab File: VU063700.D
Acq: 11 Nov 2025 12:08

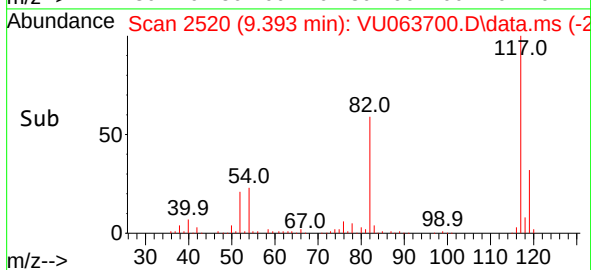
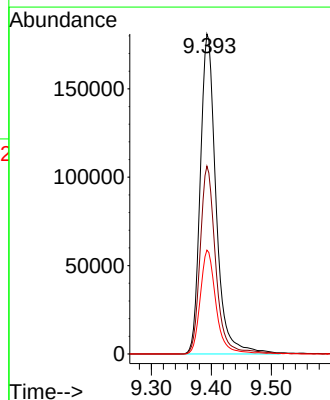
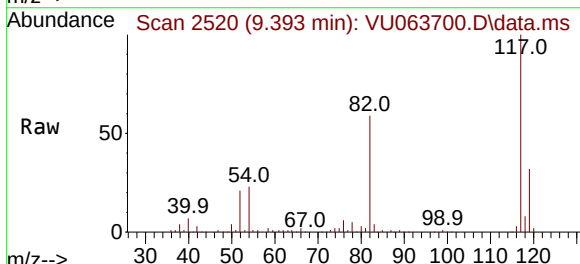
Instrument :
MSVOA_U
ClientSampleId :
VU1111WBL01

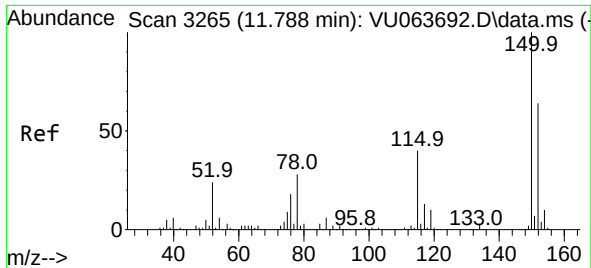
Tgt Ion: 95 Resp: 198616
Ion Ratio Lower Upper
95 100
174 77.8 0.0 154.6
176 76.1 0.0 148.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.393 min Scan# 2520
Delta R.T. -0.000 min
Lab File: VU063700.D
Acq: 11 Nov 2025 12:08

Tgt Ion: 117 Resp: 332447
Ion Ratio Lower Upper
117 100
82 58.7 46.9 70.3
119 32.5 25.8 38.8

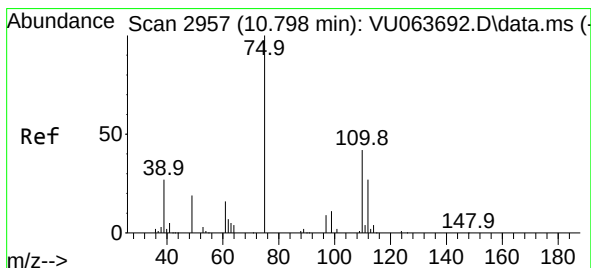
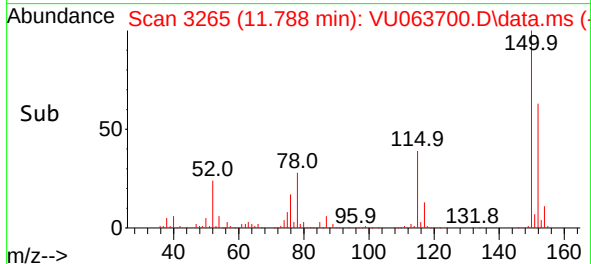
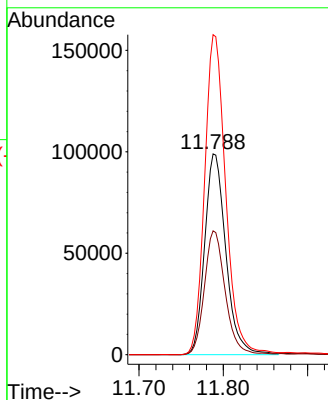
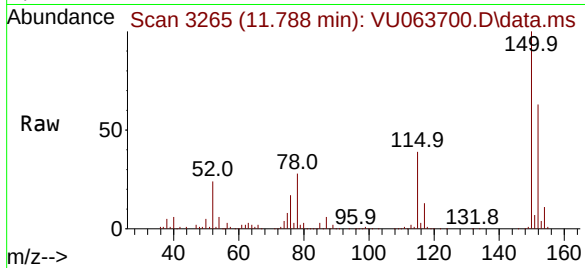




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 11.788 min Scan# 31
 Delta R.T. -0.000 min
 Lab File: VU063700.D
 Acq: 11 Nov 2025 12:08

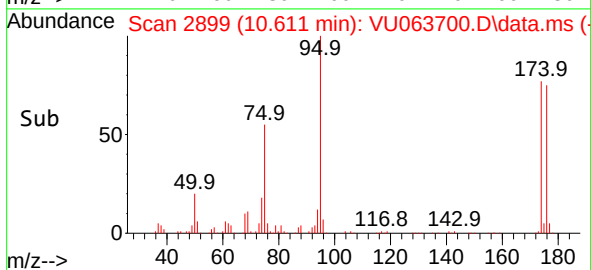
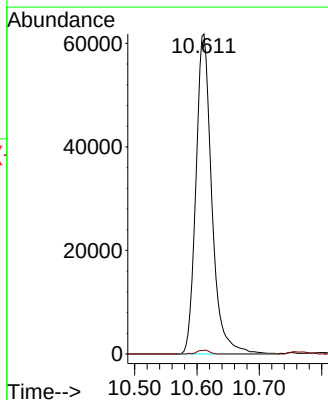
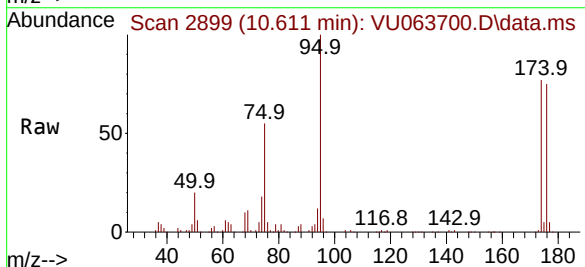
Instrument :
 MSVOA_U
 ClientSampleId :
 VU1111WBL01

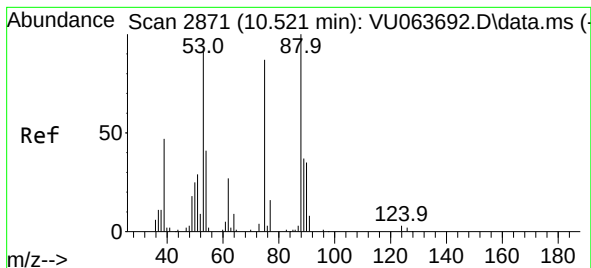
Tgt Ion:152 Resp: 173387
 Ion Ratio Lower Upper
 152 100
 115 60.5 41.0 123.0
 150 158.3 0.0 342.2



#76
 1,2,3-Trichloropropane
 Concen: 25.048 ug/l
 RT: 10.611 min Scan# 2899
 Delta R.T. -0.187 min
 Lab File: VU063700.D
 Acq: 11 Nov 2025 12:08

Tgt Ion: 75 Resp: 109443
 Ion Ratio Lower Upper
 75 100
 77 0.9 0.0 0.0#

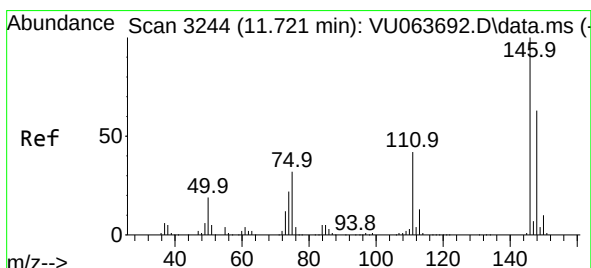
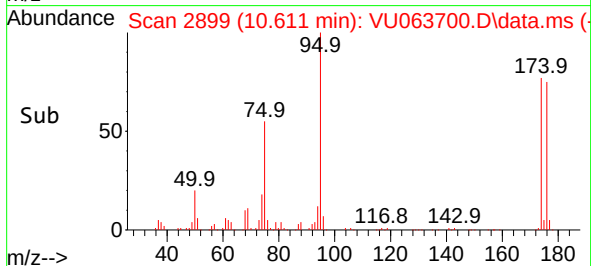
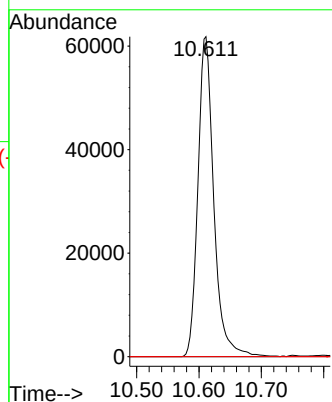
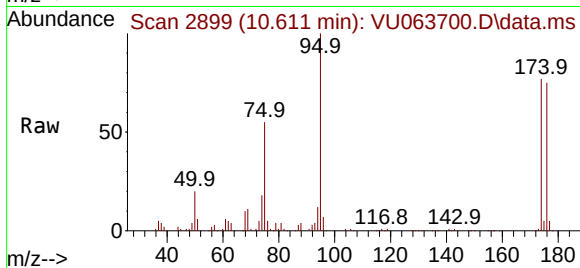




#81
 trans-1,4-Dichloro-2-butene
 Concen: 133.437 ug/l
 RT: 10.611 min Scan# 21
 Delta R.T. 0.090 min
 Lab File: VU063700.D
 Acq: 11 Nov 2025 12:08

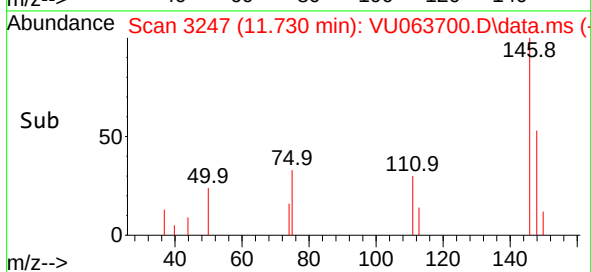
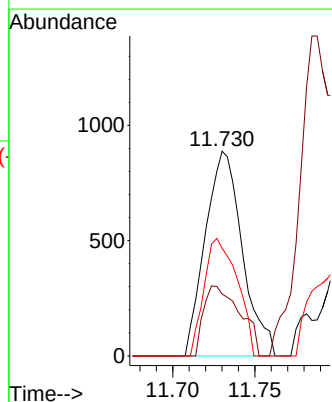
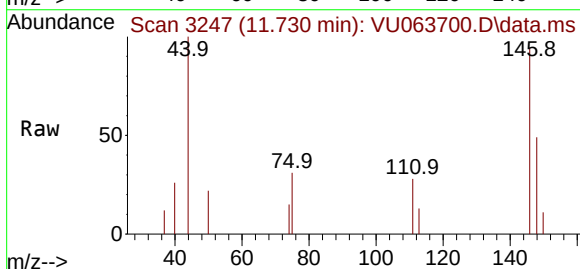
Instrument :
 MSVOA_U
 ClientSampleId :
 VU1111WBL01

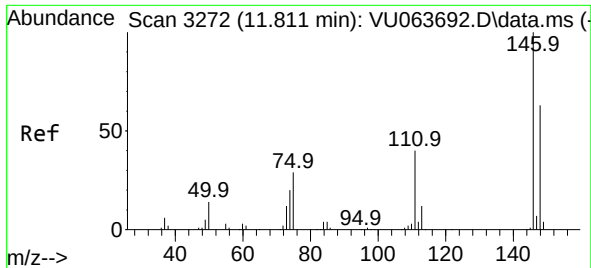
Tgt Ion: 75 Resp: 109443
 Ion Ratio Lower Upper
 75 100
 53 0.0 86.5 129.7#
 89 0.0 35.2 52.8#



#87
 1,3-Dichlorobenzene
 Concen: 0.270 ug/l
 RT: 11.730 min Scan# 3247
 Delta R.T. 0.009 min
 Lab File: VU063700.D
 Acq: 11 Nov 2025 12:08

Tgt Ion:146 Resp: 1392
 Ion Ratio Lower Upper
 146 100
 111 33.5 20.6 61.8
 148 51.4 31.8 95.4

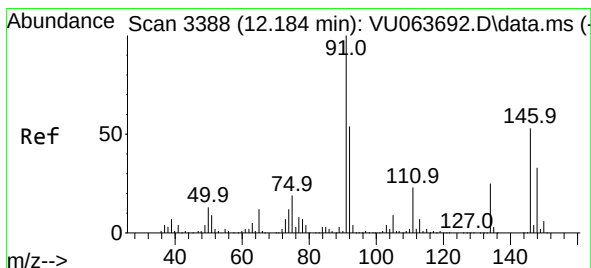
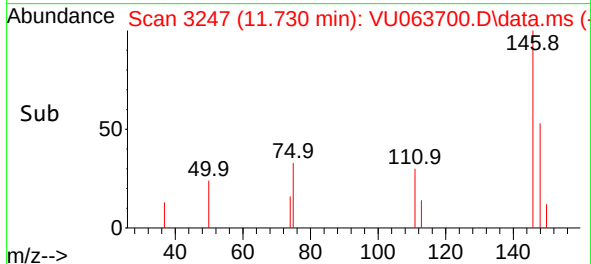
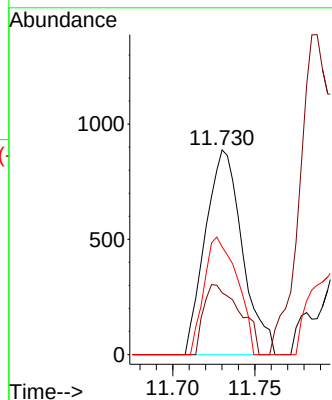
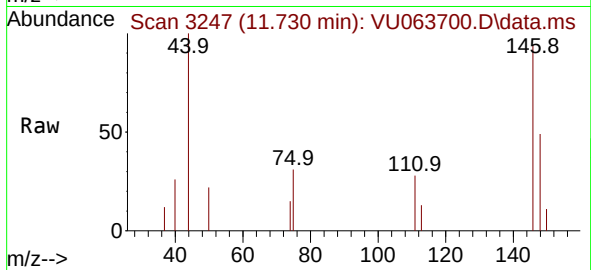




#88
1,4-Dichlorobenzene
Concen: 0.258 ug/l
RT: 11.730 min Scan# 31
Delta R.T. -0.081 min
Lab File: VU063700.D
Acq: 11 Nov 2025 12:08

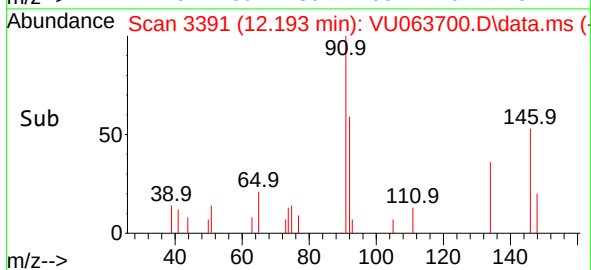
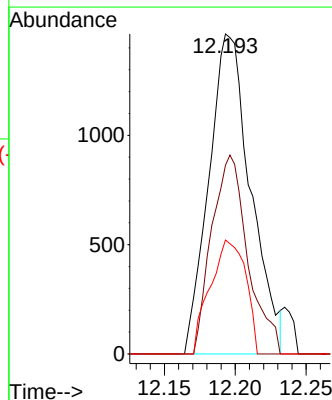
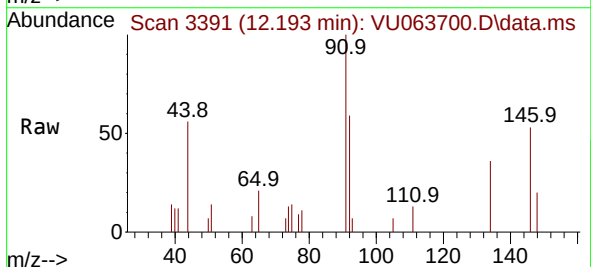
Instrument :
MSVOA_U
ClientSampleId :
VU1111WBL01

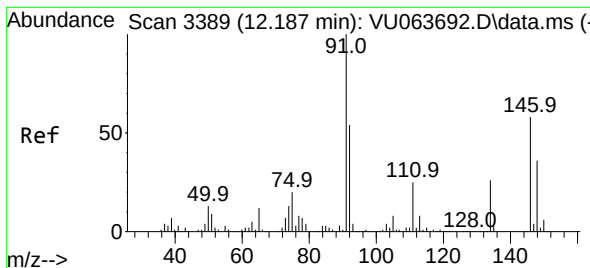
Tgt Ion:146 Resp: 1392
Ion Ratio Lower Upper
146 100
111 33.5 20.4 61.3
148 51.4 31.4 94.3



#89
n-Butylbenzene
Concen: 0.339 ug/l
RT: 12.193 min Scan# 3391
Delta R.T. 0.009 min
Lab File: VU063700.D
Acq: 11 Nov 2025 12:08

Tgt Ion: 91 Resp: 3004
Ion Ratio Lower Upper
91 100
92 53.7 27.0 81.0
134 30.2 12.4 37.4





#91

1,2-Dichlorobenzene

Concen: 0.213 ug/l

RT: 12.193 min Scan# 3389

Delta R.T. 0.006 min

Lab File: VU063700.D

Acq: 11 Nov 2025 12:08

Instrument :

MSVOA_U

ClientSampleId :

VU1111WBL01

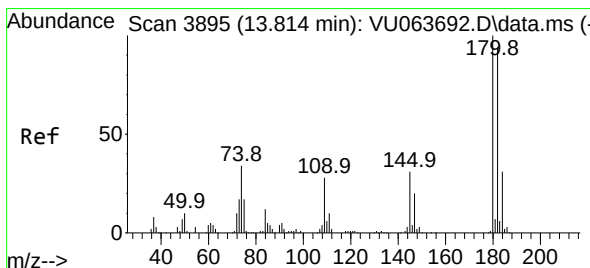
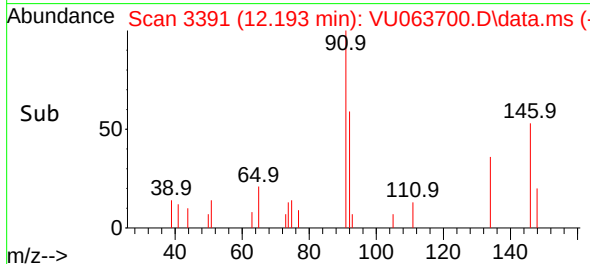
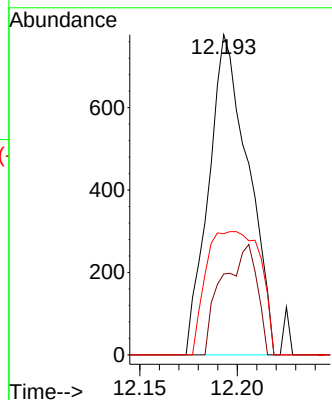
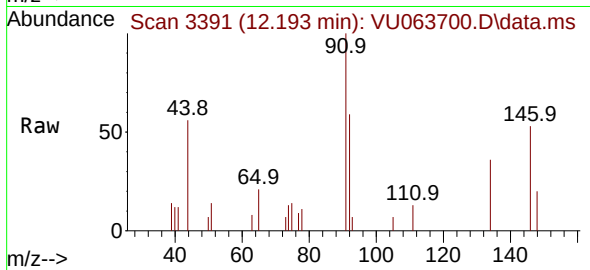
Tgt Ion:146 Resp: 1095

Ion Ratio Lower Upper

146 100

111 30.2 21.8 65.3

148 52.6 31.6 94.7



#93

1,2,4-Trichlorobenzene

Concen: 0.463 ug/l

RT: 13.826 min Scan# 3899

Delta R.T. 0.013 min

Lab File: VU063700.D

Acq: 11 Nov 2025 12:08

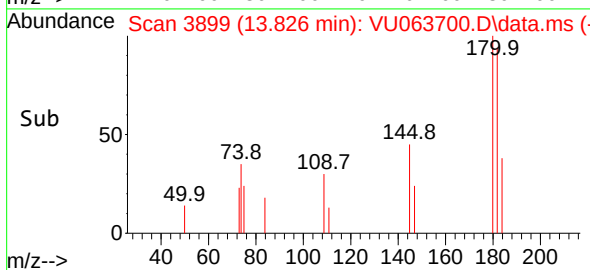
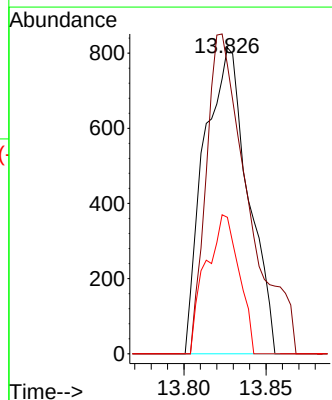
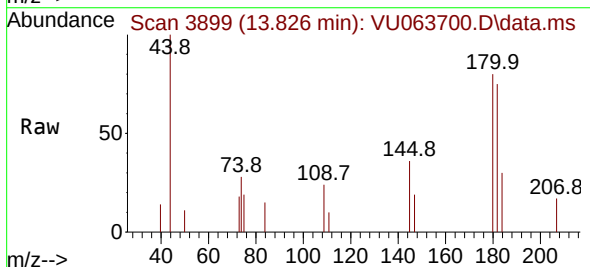
Tgt Ion:180 Resp: 1516

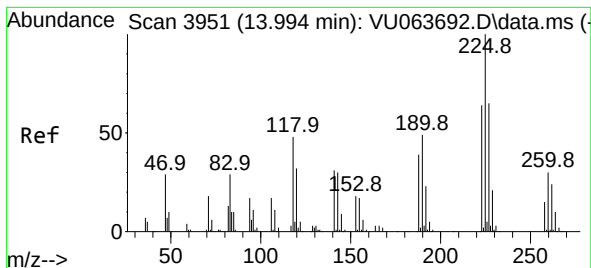
Ion Ratio Lower Upper

180 100

182 99.5 47.6 142.9

145 34.2 15.9 47.6





#94

Hexachlorobutadiene

Concen: 0.223 ug/l

RT: 13.990 min Scan# 3950

Delta R.T. -0.003 min

Lab File: VU063700.D

Acq: 11 Nov 2025 12:08

Instrument :

MSVOA_U

ClientSampleId :

VU1111WBL01

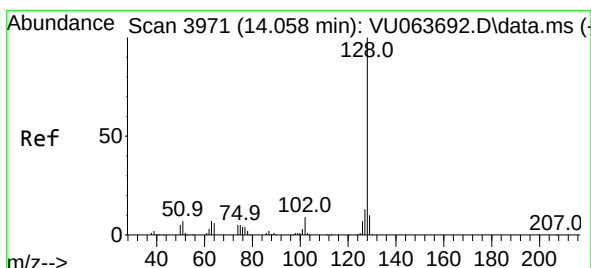
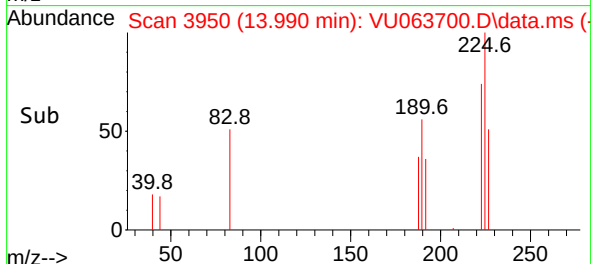
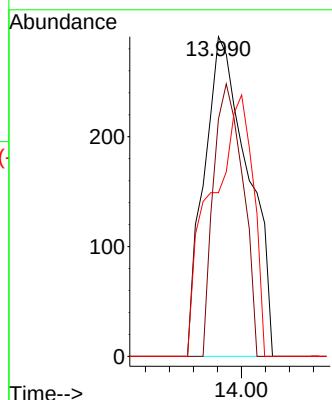
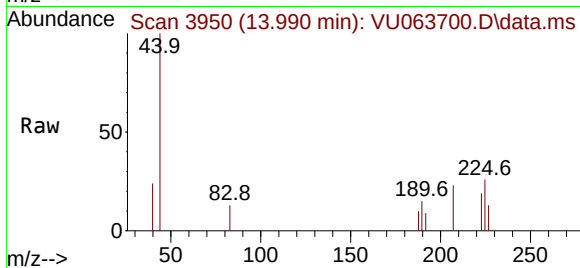
Tgt Ion:225 Resp: 368

Ion Ratio Lower Upper

225 100

223 57.3 31.6 94.8

227 78.5 32.4 97.0



#95

Naphthalene

Concen: 0.792 ug/l

RT: 14.074 min Scan# 3976

Delta R.T. 0.016 min

Lab File: VU063700.D

Acq: 11 Nov 2025 12:08

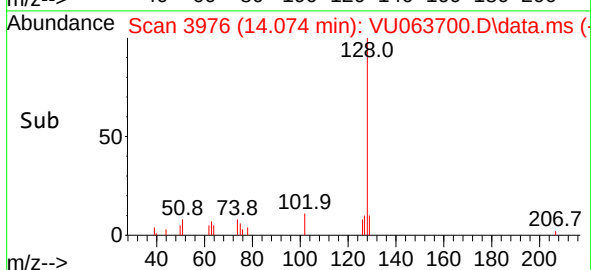
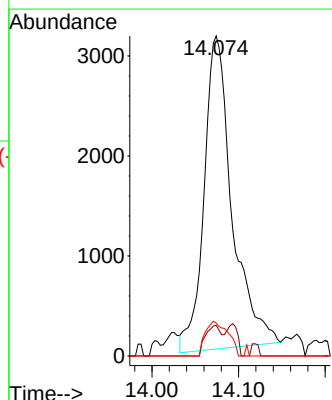
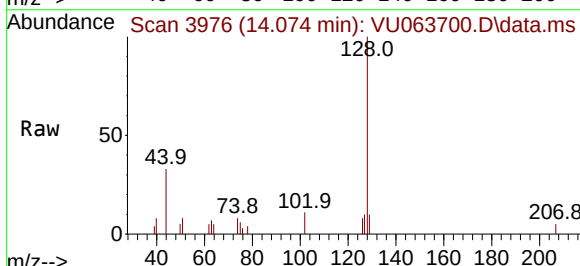
Tgt Ion:128 Resp: 7029

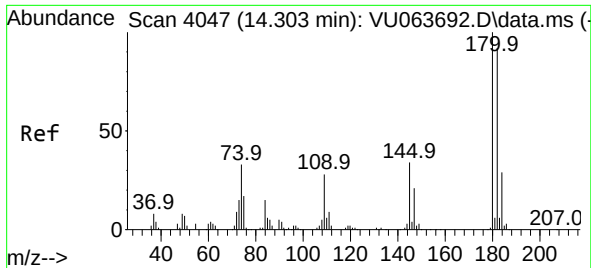
Ion Ratio Lower Upper

128 100

127 5.3 9.9 14.9#

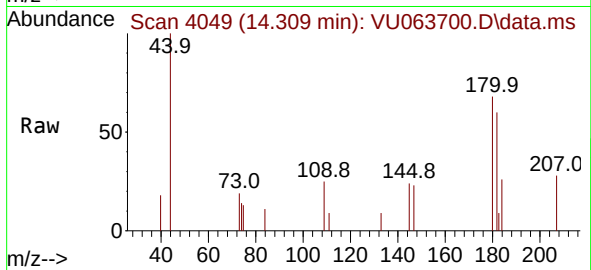
129 9.0 8.4 12.6





#96
 1,2,3-Trichlorobenzene
 Concen: 0.538 ug/l
 RT: 14.309 min Scan# 4049
 Delta R.T. 0.006 min
 Lab File: VU063700.D
 Acq: 11 Nov 2025 12:08

Instrument :
 MSVOA_U
 ClientSampleId :
 VU1111WBL01



Tgt Ion:	180	Resp:	1640
Ion	Ratio	Lower	Upper
180	100		
182	96.5	47.3	142.0
145	29.9	16.6	49.7

