

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW100625\
 Data File : VW032356.D
 Acq On : 06 Oct 2025 14:05
 Operator : SY/MD
 Sample : Q3270-01
 Misc : 5.36g/5mL/MSVOA_W/SOIL/B
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :

Quant Time: Oct 07 03:45:39 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W100125S.M
 Quant Title : SW846 8260
 QLast Update : Thu Oct 02 21:24:16 2025
 Response via : Initial Calibration

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

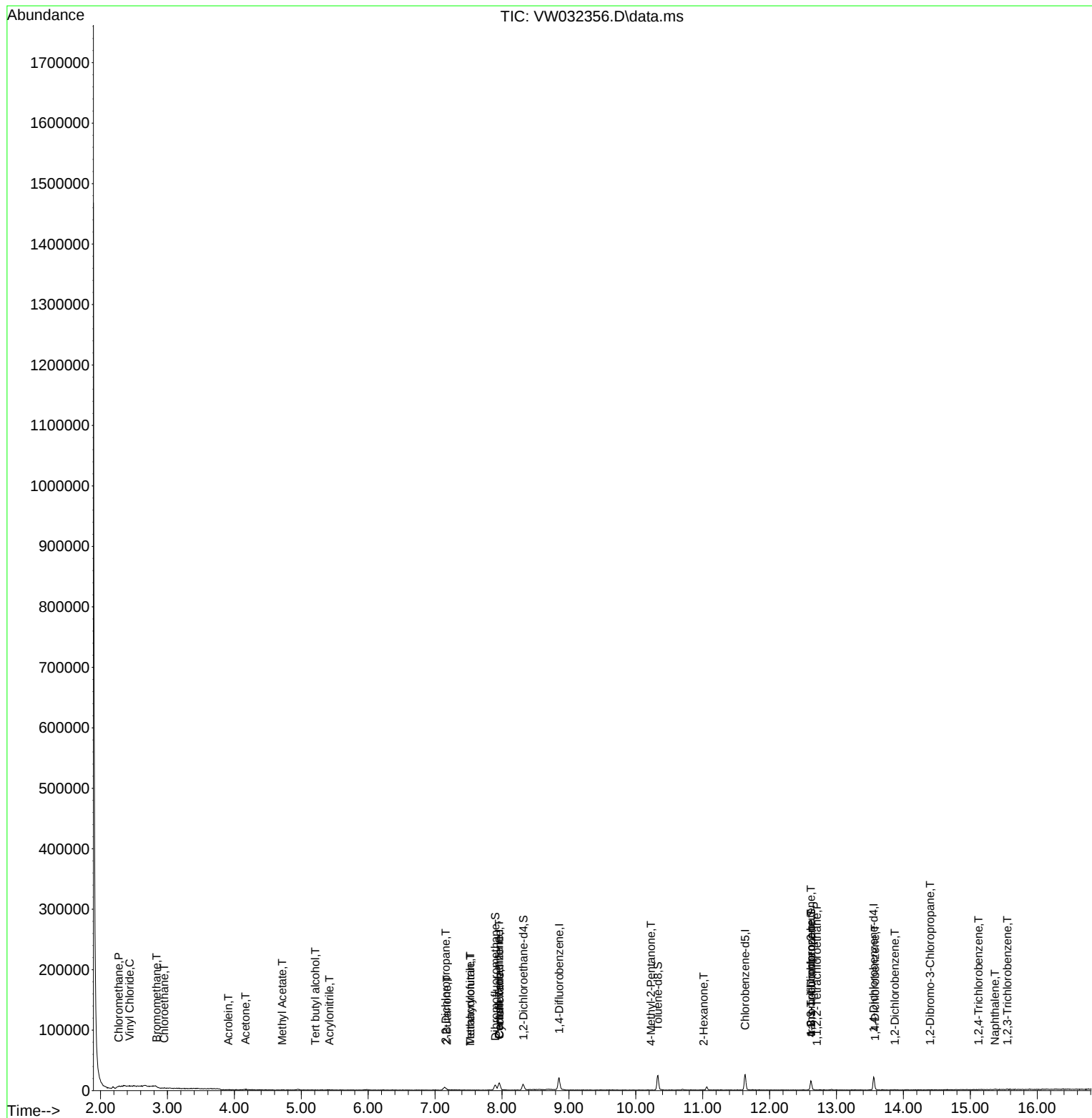
Internal Standards						
1) Pentafluorobenzene	7.959	168	8436	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.855	114	15244	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.635	117	13569	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.556	152	5535	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.319	65	7841	63.725	ug/l	0.00
Spiked Amount	50.000	Range	63 - 155	Recovery	= 127.460%	
35) Dibromofluoromethane	7.898	113	6115	61.942	ug/l	0.00
Spiked Amount	50.000	Range	70 - 134	Recovery	= 123.880%	
50) Toluene-d8	10.331	98	16837	46.210	ug/l	0.00
Spiked Amount	50.000	Range	74 - 123	Recovery	= 92.420%	
62) 4-Bromofluorobenzene	12.623	95	5753	41.774	ug/l	0.00
Spiked Amount	50.000	Range	17 - 146	Recovery	= 83.540%	
Target Compounds						
					Qvalue	
3) Chloromethane	2.271	50	465	5.693	ug/l #	50
4) Vinyl Chloride	2.436	62	104	1.066	ug/l #	1
5) Bromomethane	2.838	94	147	2.051	ug/l	83
6) Chloroethane	2.954	64	106	1.646	ug/l	89
11) Tert butyl alcohol	5.210	59	37	3.973	ug/l #	69
13) Acrolein	3.911	56	42	2.779	ug/l #	1
15) Acrylonitrile	5.423	53	201	6.107	ug/l #	61
16) Acetone	4.167	43	1163	34.135	ug/l #	82
18) Methyl Acetate	4.716	43	619	6.342	ug/l #	56
20) Methylene Chloride	4.935	84	583	Below Cal	#	61
25) 2-Butanone	7.179	43	145	3.125	ug/l #	48
26) 2,2-Dichloropropane	7.161	77	169	1.628	ug/l #	52
29) Tetrahydrofuran	7.526	42	124	4.249	ug/l #	43
31) Cyclohexane	7.965	56	347	2.003	ug/l #	44
38) Carbon Tetrachloride	7.959	117	1027	7.833	ug/l #	30
41) Methacrylonitrile	7.526	41	54	1.080	ug/l #	1
51) 4-Methyl-2-Pentanone	10.227	43	164	1.721	ug/l #	35
59) 2-Hexanone	11.014	43	98	1.458	ug/l	97
75) 1,1,2,2-Tetrachloroethane	12.708	83	95	1.010	ug/l #	66
76) 1,2,3-Trichloropropane	12.617	75	3088	42.395	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.617	75	3088	107.400	ug/l #	5
88) 1,4-Dichlorobenzene	13.574	146	272	1.472	ug/l #	60
91) 1,2-Dichlorobenzene	13.873	146	228	1.365	ug/l #	58
92) 1,2-Dibromo-3-Chloropr...	14.397	75	27	1.640	ug/l #	3
93) 1,2,4-Trichlorobenzene	15.123	180	139	1.387	ug/l #	65
95) Naphthalene	15.366	128	532	2.211	ug/l #	69
96) 1,2,3-Trichlorobenzene	15.555	180	154	1.631	ug/l #	38

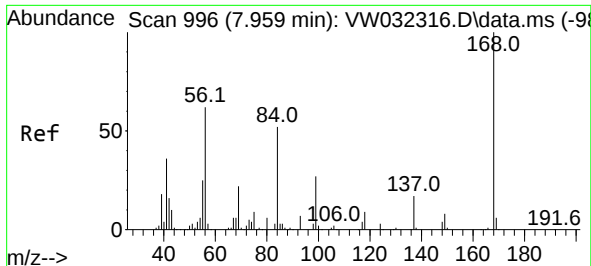
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ALS Vial : 9 Sample Multiplier: 1

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Quant Time: Oct 07 03:45:39 2025
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Quant Title : SW846 8260
QLast Update : Thu Oct 02 21:24:16 2025
Response via : Initial Calibration

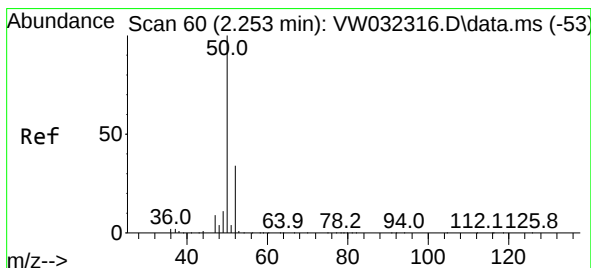
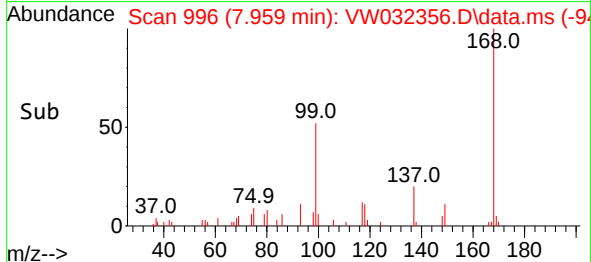
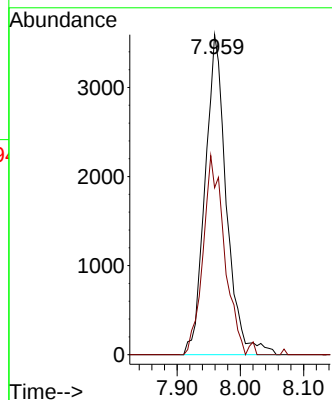
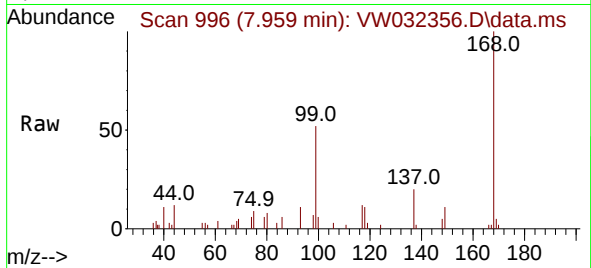




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.959 min Scan# 99
Delta R.T. -0.006 min
Lab File: VW032356.D
Acq: 06 Oct 2025 14:05

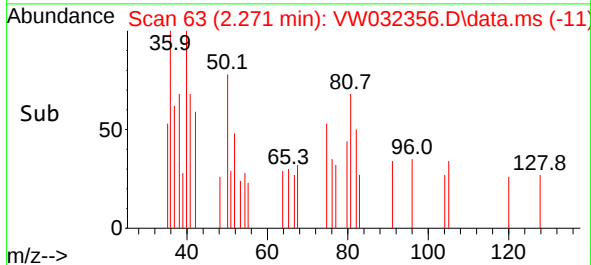
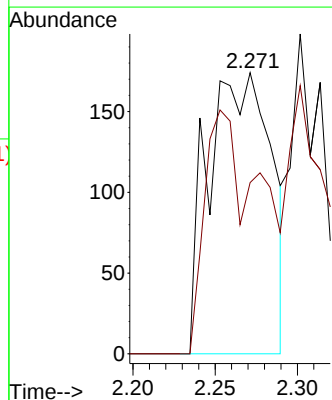
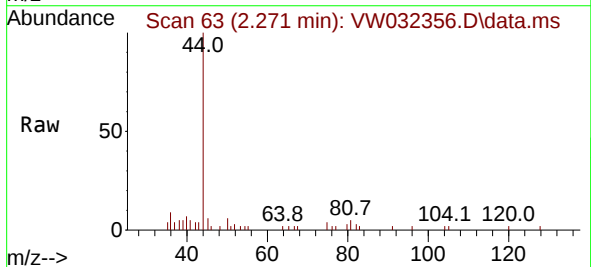
Instrument :
MSVOA_W
ClientSampleId :

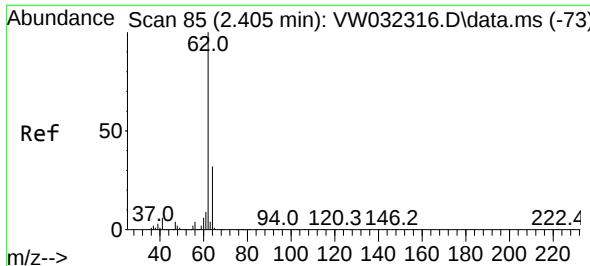
Tgt Ion:168 Resp: 8436
Ion Ratio Lower Upper
168 100
99 52.1 49.3 73.9



#3
Chloromethane
Concen: 5.693 ug/l
RT: 2.271 min Scan# 63
Delta R.T. 0.018 min
Lab File: VW032356.D
Acq: 06 Oct 2025 14:05

Tgt Ion: 50 Resp: 465
Ion Ratio Lower Upper
50 100
52 60.9 26.1 39.1#

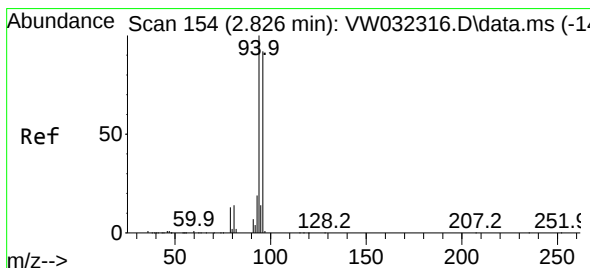
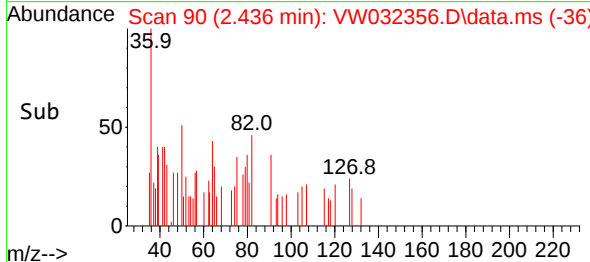
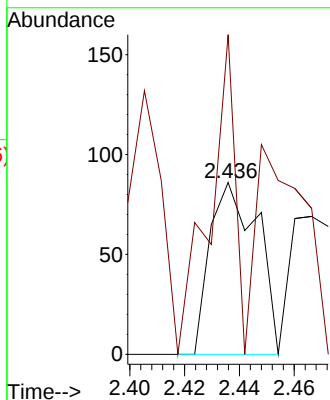
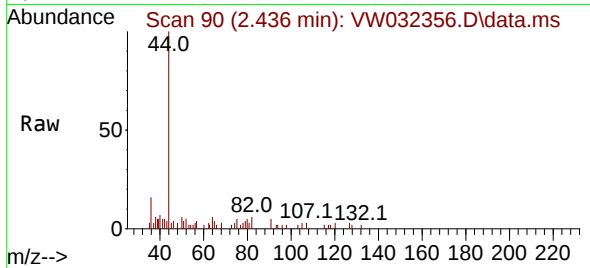




#4
 Vinyl Chloride
 Concen: 1.066 ug/l
 RT: 2.436 min Scan# 90
 Delta R.T. 0.030 min
 Lab File: VW032356.D
 Acq: 06 Oct 2025 14:05

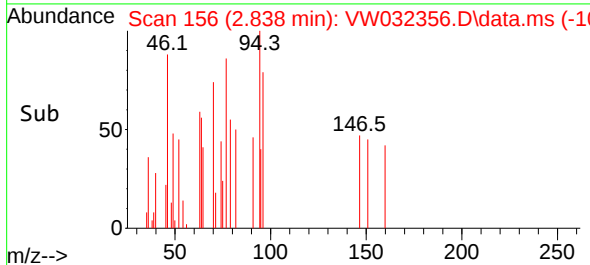
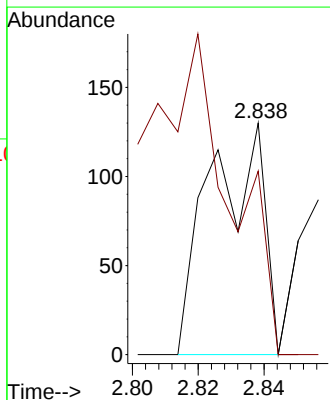
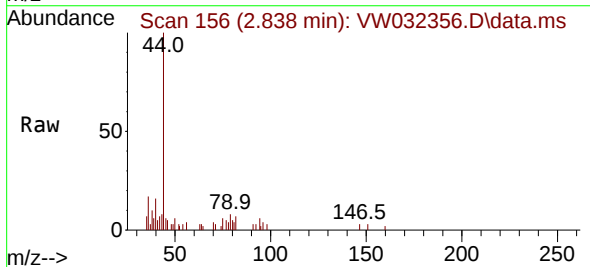
Instrument :
 MSVOA_W
 ClientSampleId :

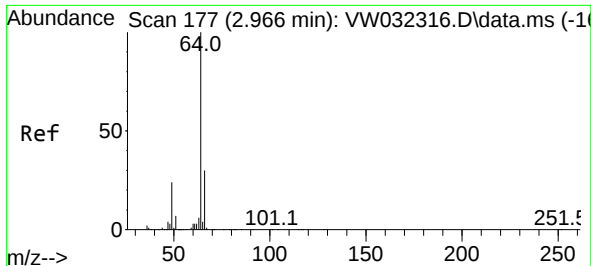
Tgt Ion: 62 Resp: 104
 Ion Ratio Lower Upper
 62 100
 64 186.0 24.8 37.2#



#5
 Bromomethane
 Concen: 2.051 ug/l
 RT: 2.838 min Scan# 156
 Delta R.T. 0.012 min
 Lab File: VW032356.D
 Acq: 06 Oct 2025 14:05

Tgt Ion: 94 Resp: 147
 Ion Ratio Lower Upper
 94 100
 96 79.2 76.6 115.0

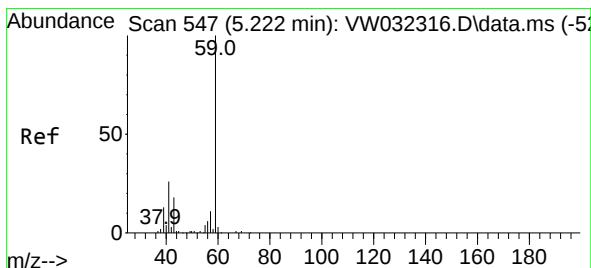
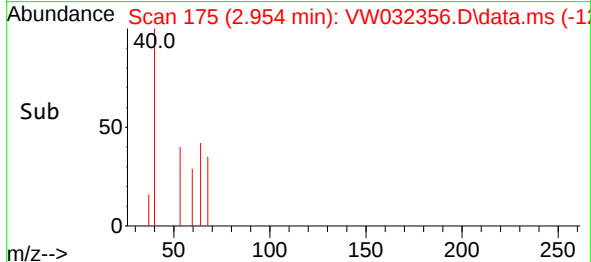
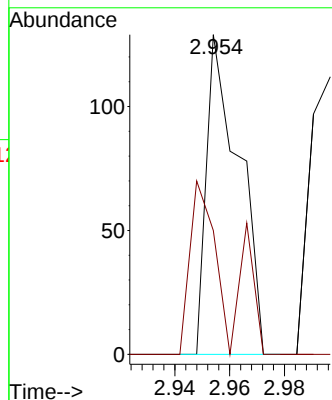
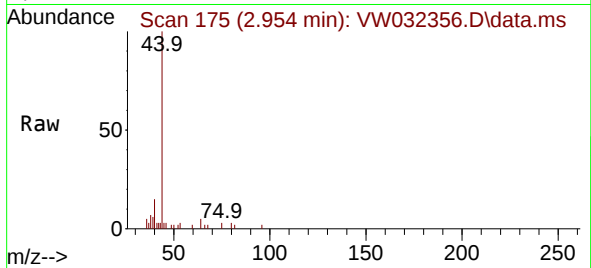




#6
Chloroethane
Concen: 1.646 ug/l
RT: 2.954 min Scan# 11
Delta R.T. -0.018 min
Lab File: VW032356.D
Acq: 06 Oct 2025 14:05

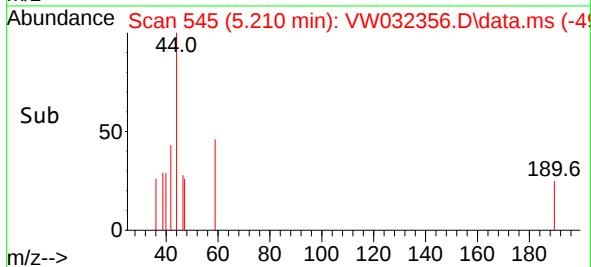
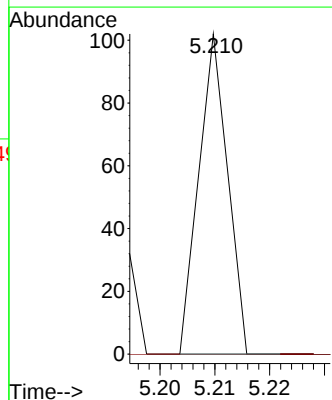
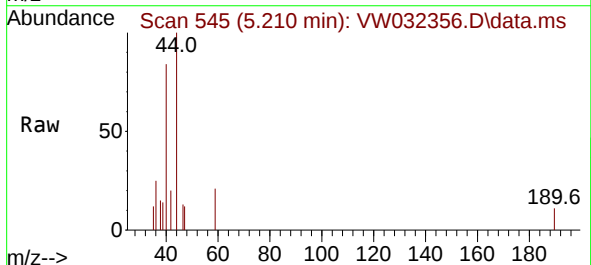
Instrument :
MSVOA_W
ClientSampleId :

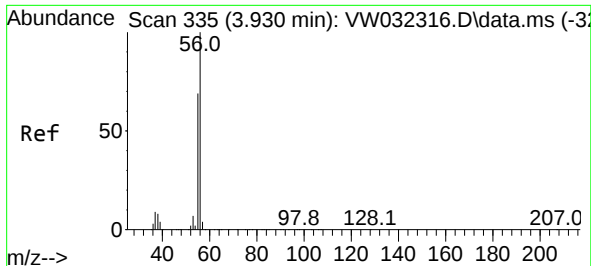
Tgt Ion: 64 Resp: 106
Ion Ratio Lower Upper
64 100
66 38.8 26.2 39.4



#11
Tert butyl alcohol
Concen: 3.973 ug/l
RT: 5.210 min Scan# 545
Delta R.T. -0.012 min
Lab File: VW032356.D
Acq: 06 Oct 2025 14:05

Tgt Ion: 59 Resp: 37
Ion Ratio Lower Upper
59 100
57 0.0 9.8 14.6#

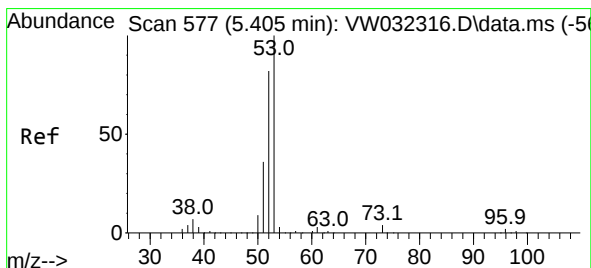
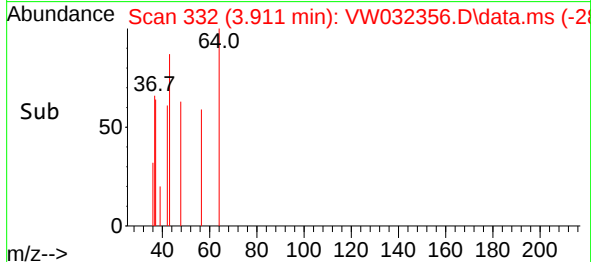
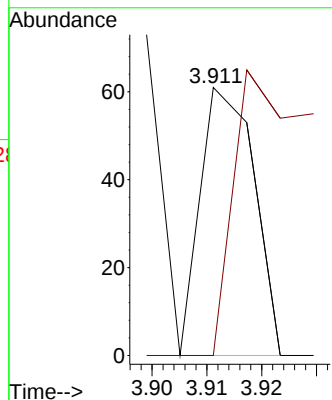
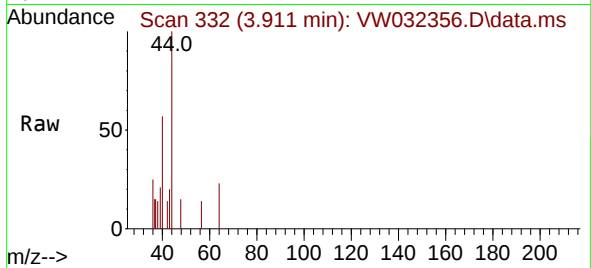




#13
Acrolein
Concen: 2.779 ug/l
RT: 3.911 min Scan# 31
Delta R.T. -0.018 min
Lab File: VW032356.D
Acq: 06 Oct 2025 14:05

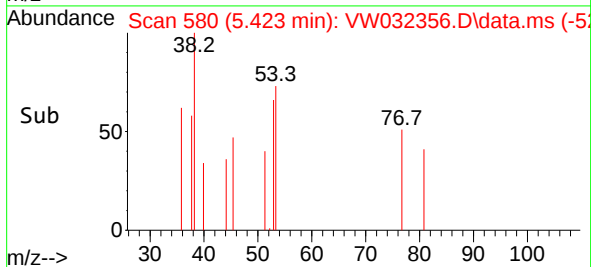
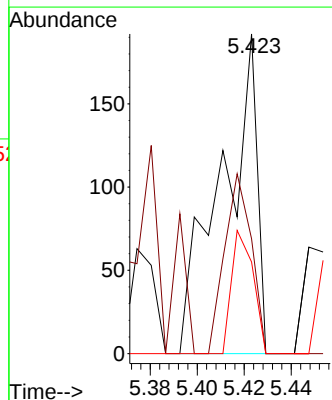
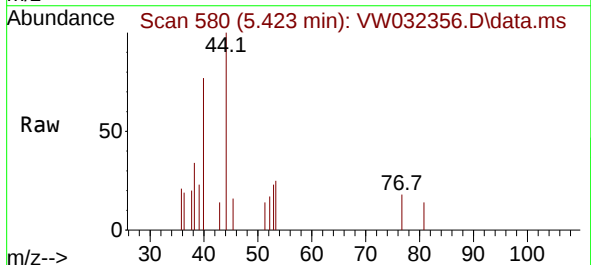
Instrument :
MSVOA_W
ClientSampleId :

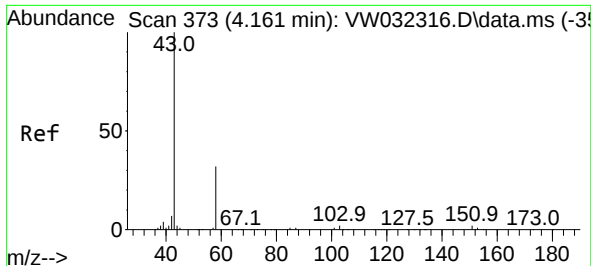
Tgt Ion: 56 Resp: 42
Ion Ratio Lower Upper
56 100
55 152.4 56.4 84.6#



#15
Acrylonitrile
Concen: 6.107 ug/l
RT: 5.423 min Scan# 580
Delta R.T. 0.018 min
Lab File: VW032356.D
Acq: 06 Oct 2025 14:05

Tgt Ion: 53 Resp: 201
Ion Ratio Lower Upper
53 100
52 42.8 67.4 101.2#
51 23.4 30.3 45.5#

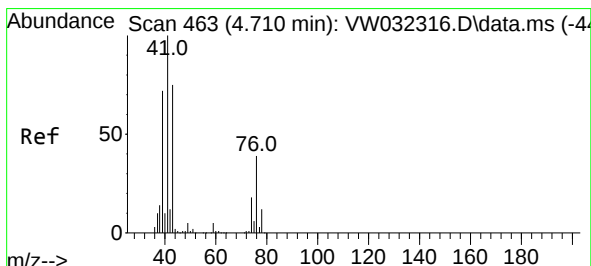
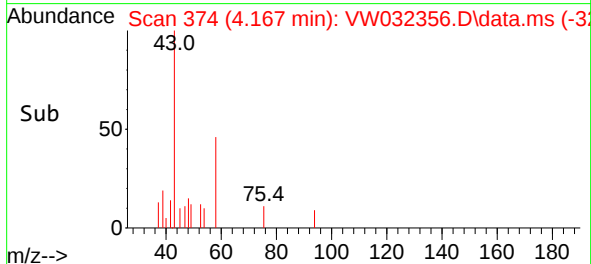
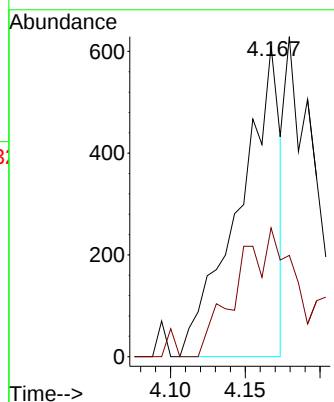
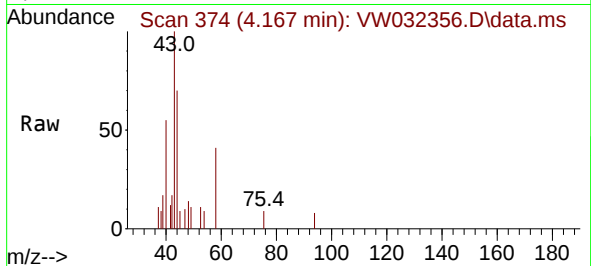




#16
Acetone
Concen: 34.135 ug/l
RT: 4.167 min Scan# 31
Delta R.T. 0.006 min
Lab File: VW032356.D
Acq: 06 Oct 2025 14:05

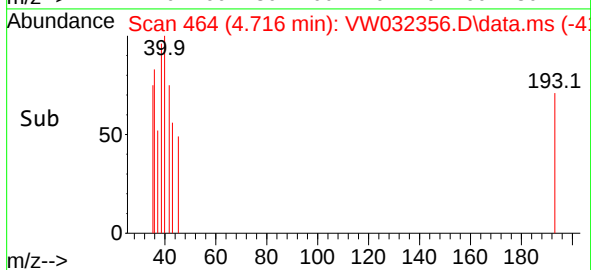
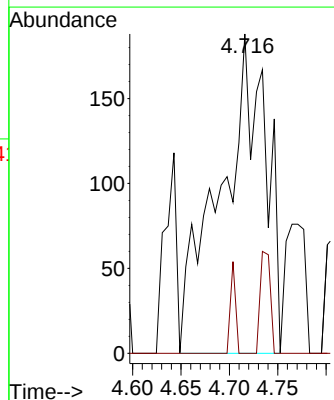
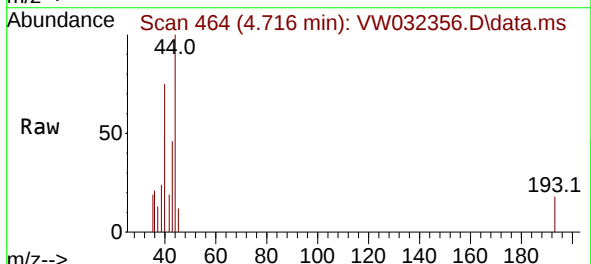
Instrument :
MSVOA_W
ClientSampleId :

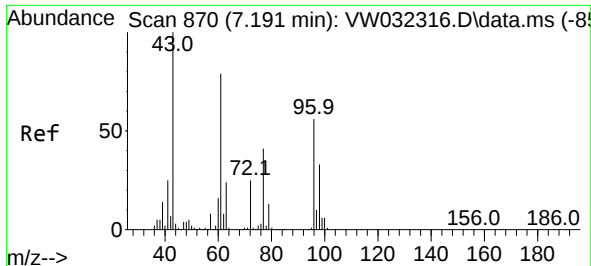
Tgt Ion: 43 Resp: 1163
Ion Ratio Lower Upper
43 100
58 41.4 25.3 37.9#



#18
Methyl Acetate
Concen: 6.342 ug/l
RT: 4.716 min Scan# 464
Delta R.T. 0.006 min
Lab File: VW032356.D
Acq: 06 Oct 2025 14:05

Tgt Ion: 43 Resp: 619
Ion Ratio Lower Upper
43 100
74 3.2 20.2 30.4#

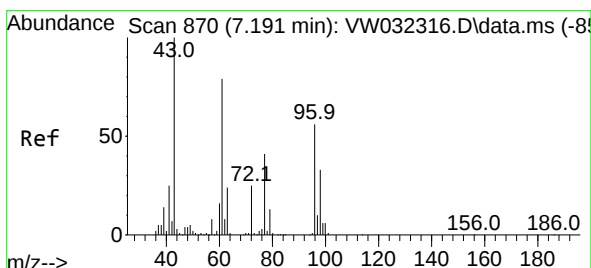
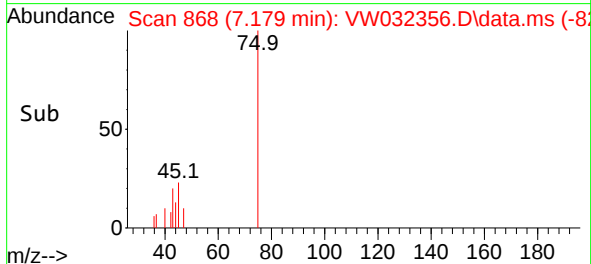
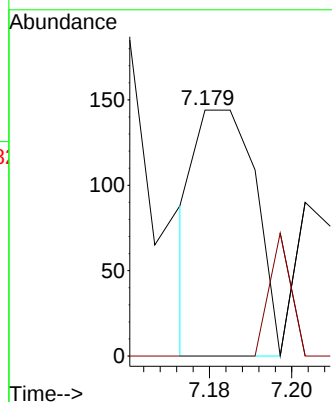
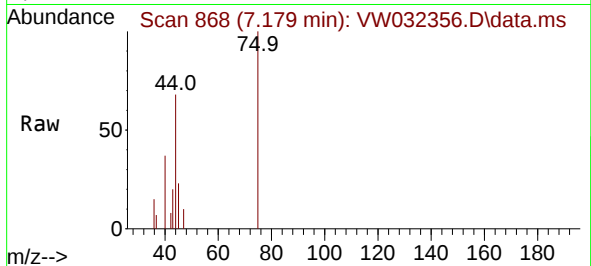




#25
2-Butanone
Concen: 3.125 ug/l
RT: 7.179 min Scan# 868
Delta R.T. -0.012 min
Lab File: VW032356.D
Acq: 06 Oct 2025 14:05

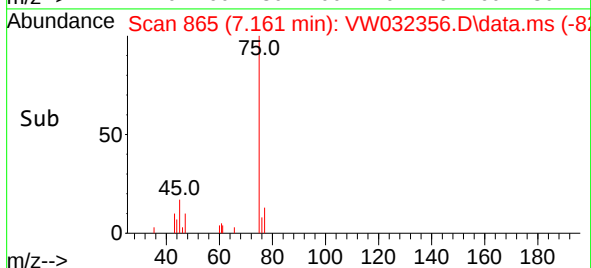
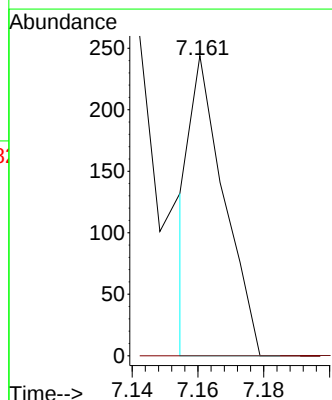
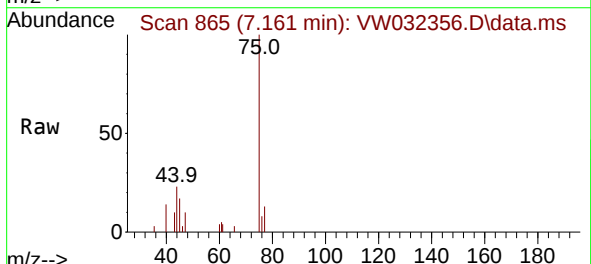
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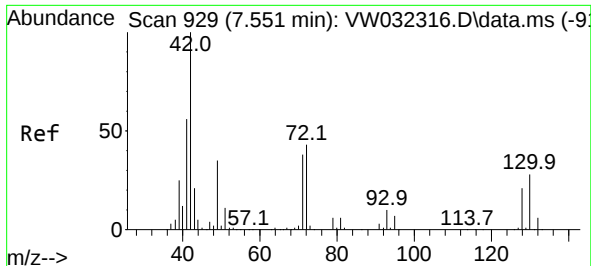
Tgt Ion: 43 Resp: 145
Ion Ratio Lower Upper
43 100
72 0.0 21.4 32.2#



#26
2,2-Dichloropropane
Concen: 1.628 ug/l
RT: 7.161 min Scan# 865
Delta R.T. -0.024 min
Lab File: VW032356.D
Acq: 06 Oct 2025 14:05

Tgt Ion: 77 Resp: 169
Ion Ratio Lower Upper
77 100
97 0.0 11.9 35.5#





#29

Tetrahydrofuran

Concen: 4.249 ug/l

RT: 7.526 min Scan# 91

Delta R.T. -0.024 min

Lab File: VW032356.D

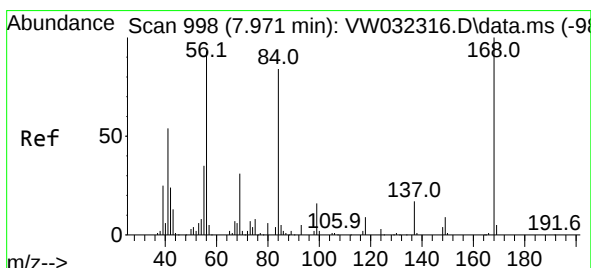
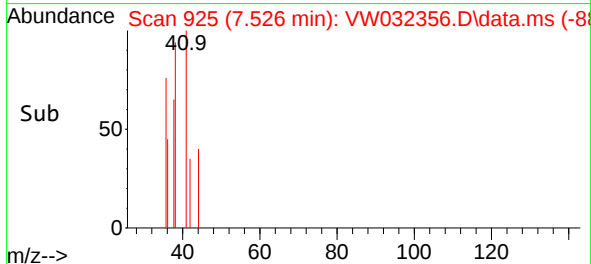
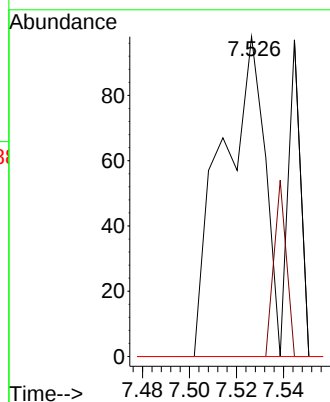
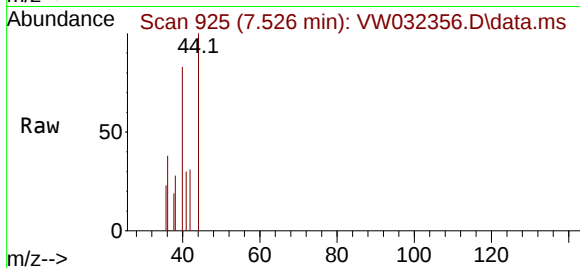
Acq: 06 Oct 2025 14:05

Instrument :

MSVOA_W

ClientSampleId :

Tgt Ion:	42	Resp:	124
Ion	Ratio	Lower	Upper
42	100		
72	16.1	37.4	56.2#
71	0.0	36.0	54.0#



#31

Cyclohexane

Concen: 2.003 ug/l

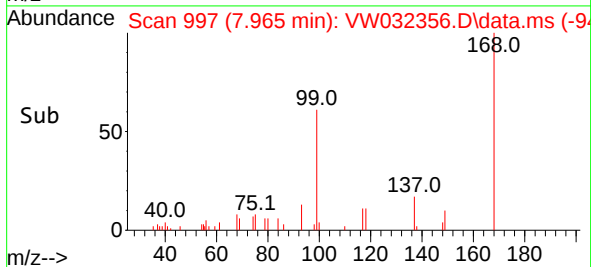
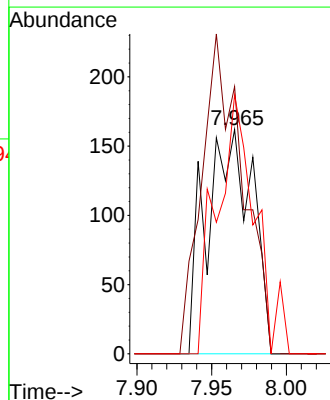
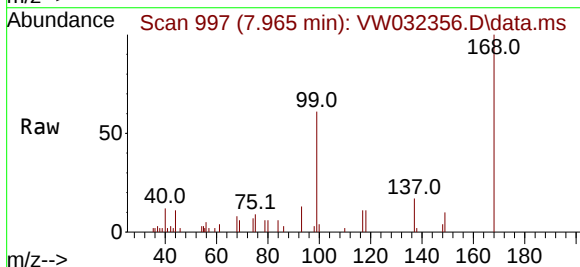
RT: 7.965 min Scan# 997

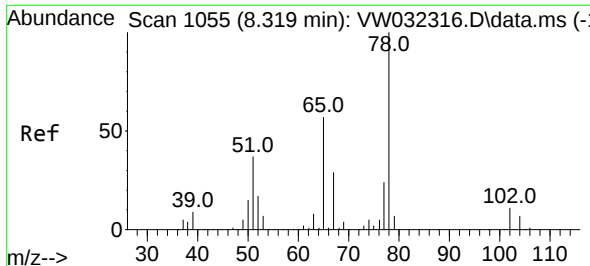
Delta R.T. -0.006 min

Lab File: VW032356.D

Acq: 06 Oct 2025 14:05

Tgt Ion:	56	Resp:	347
Ion	Ratio	Lower	Upper
56	100		
69	119.1	27.7	41.5#
84	115.4	74.6	112.0#

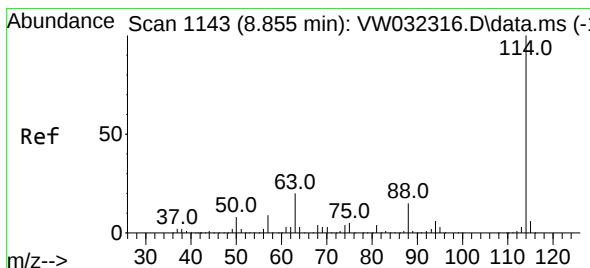
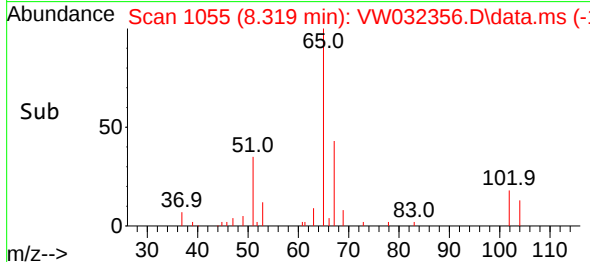
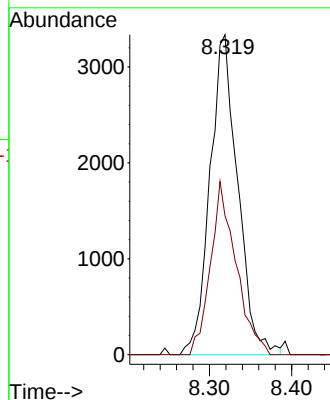
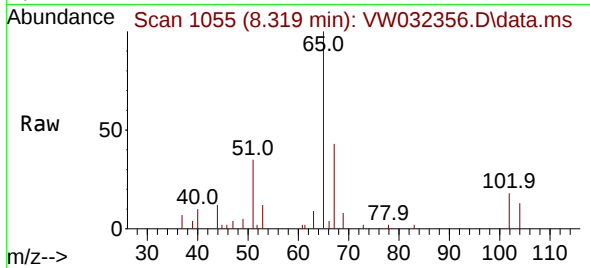




#33
 1,2-Dichloroethane-d4
 Concen: 63.725 ug/l
 RT: 8.319 min Scan# 1055
 Delta R.T. -0.000 min
 Lab File: VW032356.D
 Acq: 06 Oct 2025 14:05

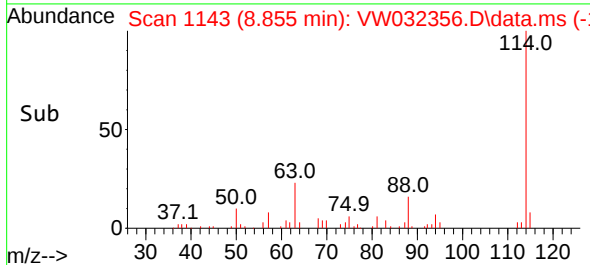
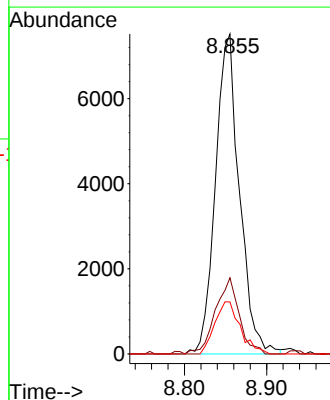
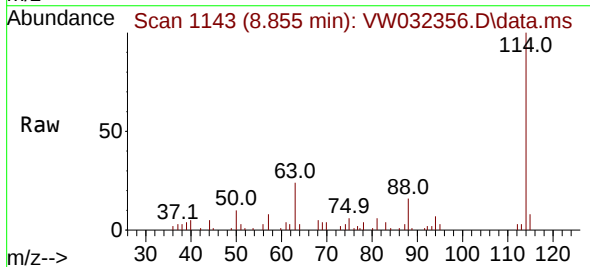
Instrument :
 MSVOA_W
 ClientSampleId :

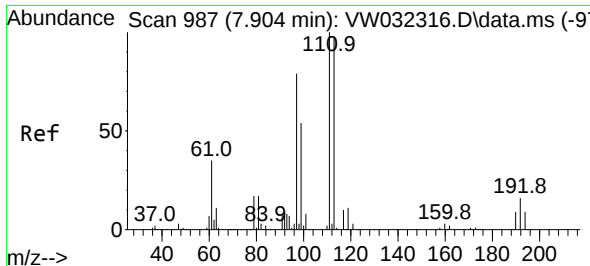
Tgt Ion: 65 Resp: 7841
 Ion Ratio Lower Upper
 65 100
 67 49.8 0.0 99.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.855 min Scan# 1143
 Delta R.T. -0.000 min
 Lab File: VW032356.D
 Acq: 06 Oct 2025 14:05

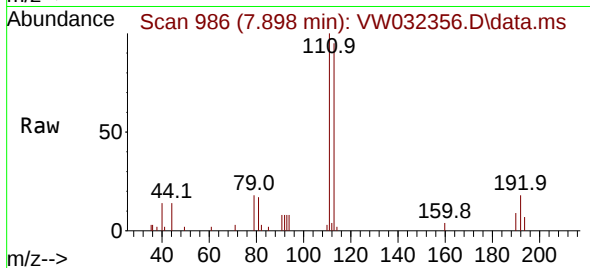
Tgt Ion: 114 Resp: 15244
 Ion Ratio Lower Upper
 114 100
 63 23.8 0.0 40.4
 88 16.3 0.0 32.0



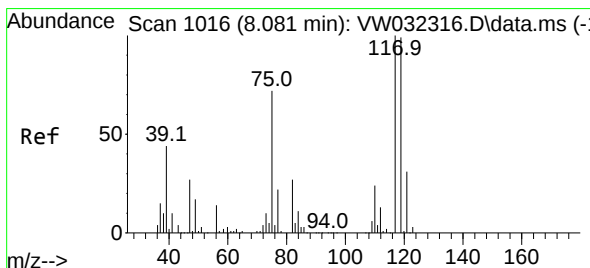
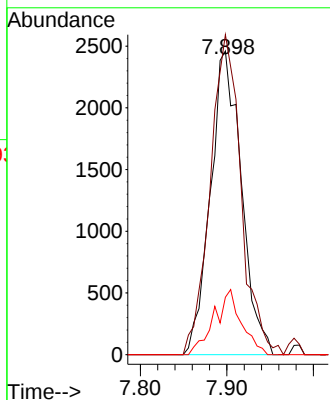
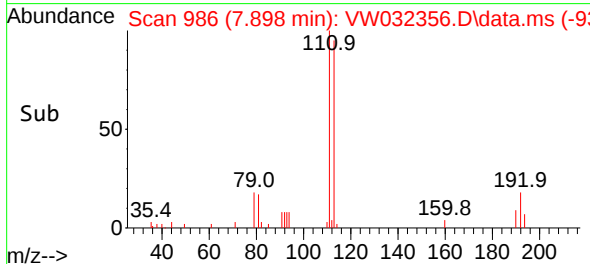


#35
Dibromofluoromethane
Concen: 61.942 ug/l
RT: 7.898 min Scan# 911
Delta R.T. -0.006 min
Lab File: VW032356.D
Acq: 06 Oct 2025 14:05

Instrument :
MSVOA_W
ClientSampleId :

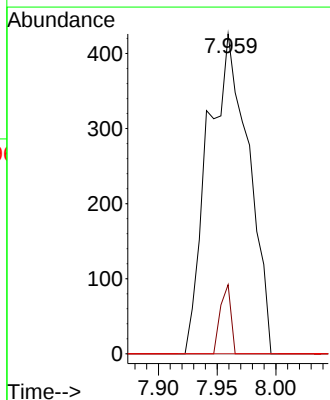
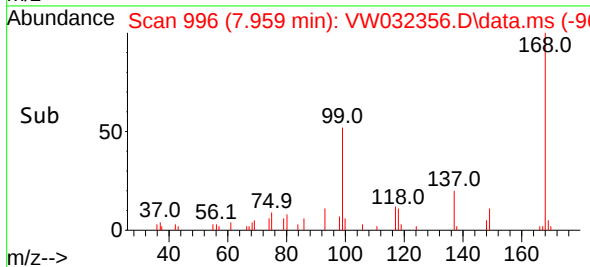
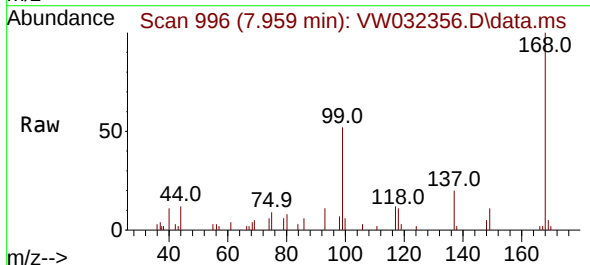


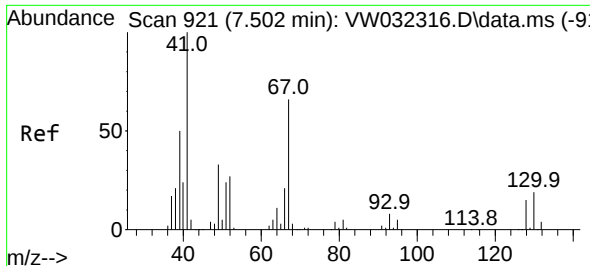
Tgt Ion:113 Resp: 6115
Ion Ratio Lower Upper
113 100
111 105.1 83.9 125.9
192 19.0 14.6 21.8



#38
Carbon Tetrachloride
Concen: 7.833 ug/l
RT: 7.959 min Scan# 996
Delta R.T. -0.128 min
Lab File: VW032356.D
Acq: 06 Oct 2025 14:05

Tgt Ion:117 Resp: 1027
Ion Ratio Lower Upper
117 100
119 21.6 74.2 111.2#
121 0.0 25.6 38.4#

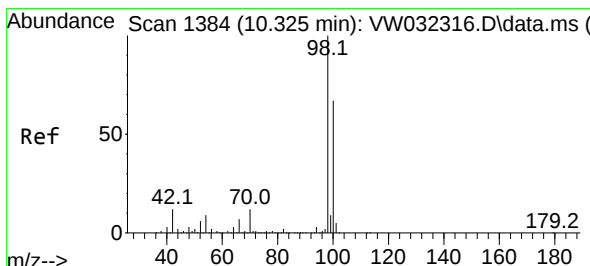
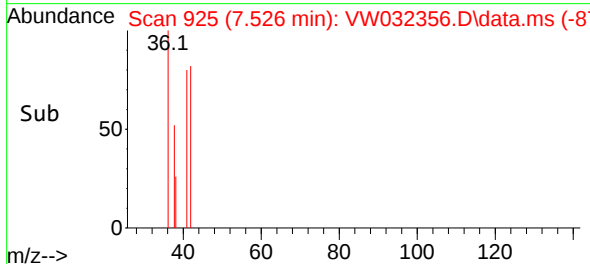
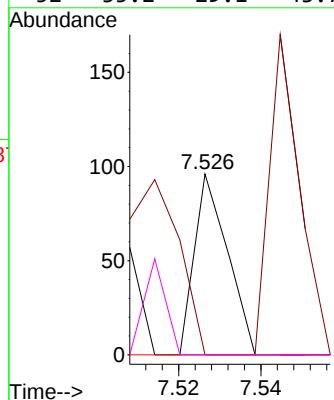
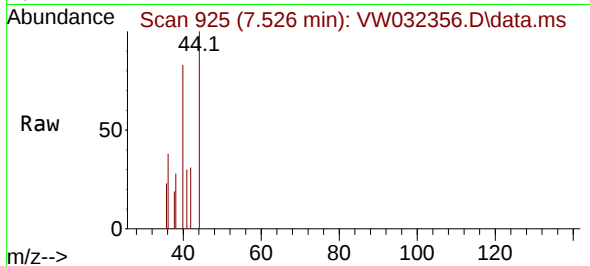




#41
Methacrylonitrile
Concen: 1.080 ug/l
RT: 7.526 min Scan# 91
Delta R.T. 0.024 min
Lab File: VW032356.D
Acq: 06 Oct 2025 14:05

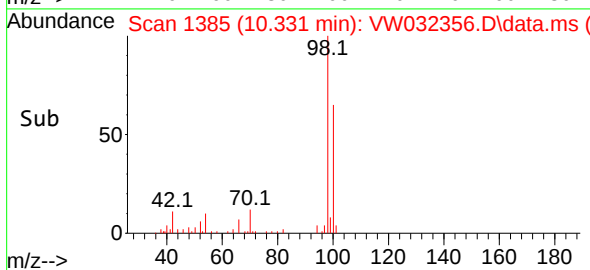
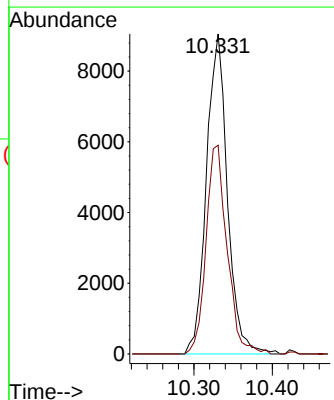
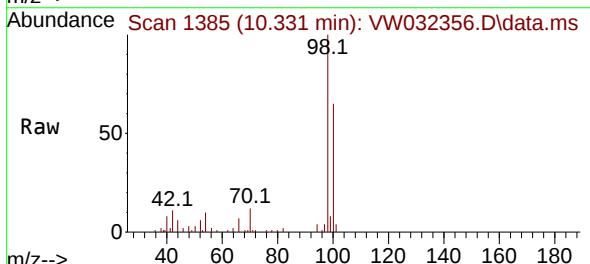
Instrument :
MSVOA_W
ClientSampleId :

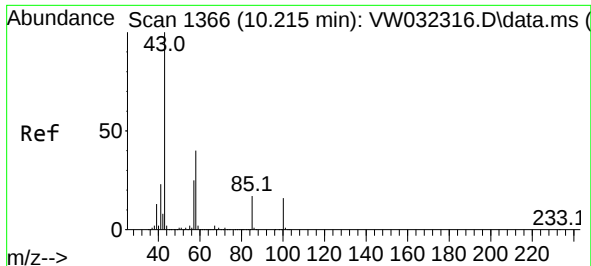
Tgt Ion: 41	Resp: 54
Ion Ratio	Lower Upper
41 100	
39 248.1	50.9 76.3#
67 0.0	65.6 98.4#
52 35.2	29.1 43.7



#50
Toluene-d8
Concen: 46.210 ug/l
RT: 10.331 min Scan# 1385
Delta R.T. 0.006 min
Lab File: VW032356.D
Acq: 06 Oct 2025 14:05

Tgt Ion: 98	Resp: 16837
Ion Ratio	Lower Upper
98 100	
100 65.4	51.4 77.2

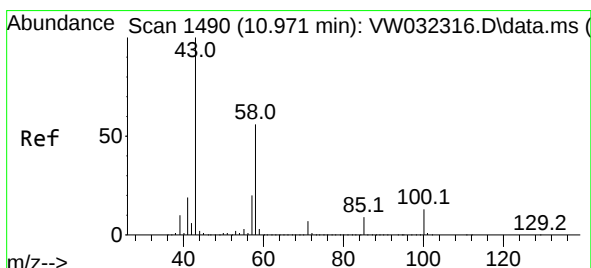
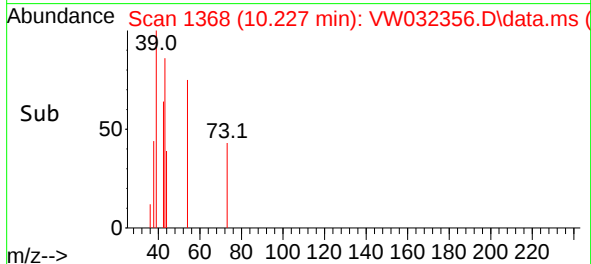
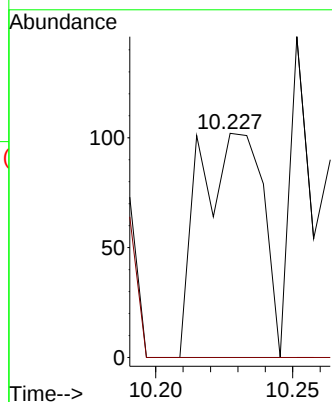
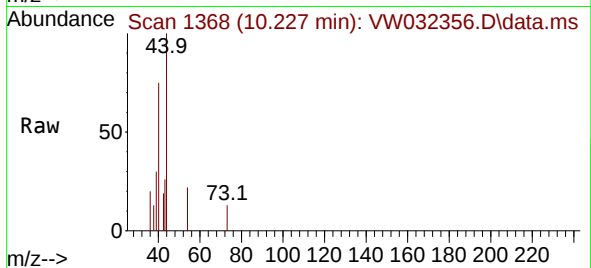




#51
4-Methyl-2-Pentanone
Concen: 1.721 ug/l
RT: 10.227 min Scan# 11
Delta R.T. 0.012 min
Lab File: VW032356.D
Acq: 06 Oct 2025 14:05

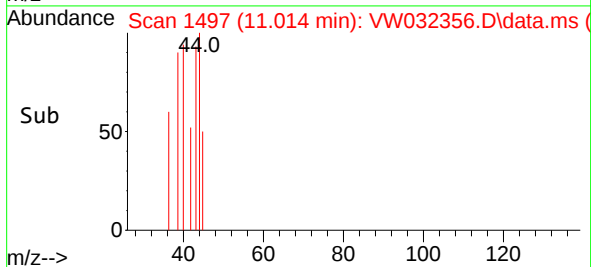
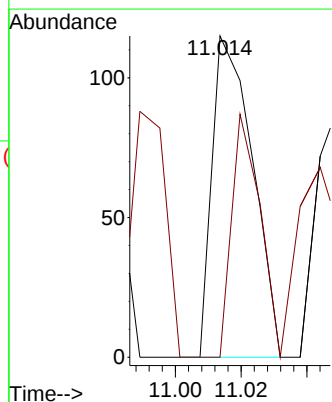
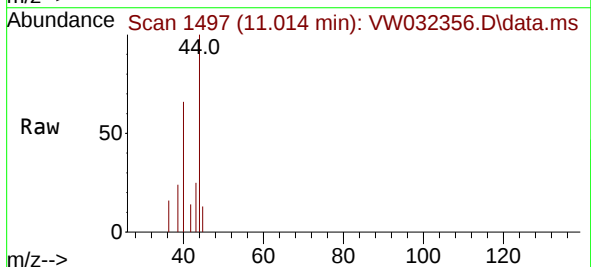
Instrument :
MSVOA_W
ClientSampleId :

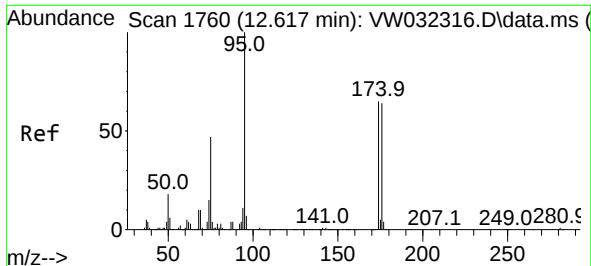
Tgt Ion: 43 Resp: 164
Ion Ratio Lower Upper
43 100
58 0.0 32.0 48.0#



#59
2-Hexanone
Concen: 1.458 ug/l
RT: 11.014 min Scan# 1497
Delta R.T. 0.043 min
Lab File: VW032356.D
Acq: 06 Oct 2025 14:05

Tgt Ion: 43 Resp: 98
Ion Ratio Lower Upper
43 100
58 53.1 27.5 82.4

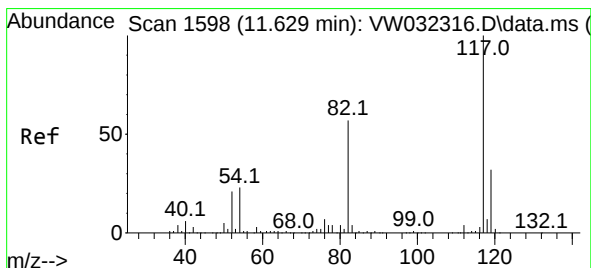
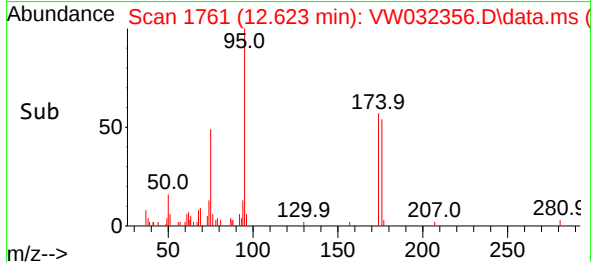
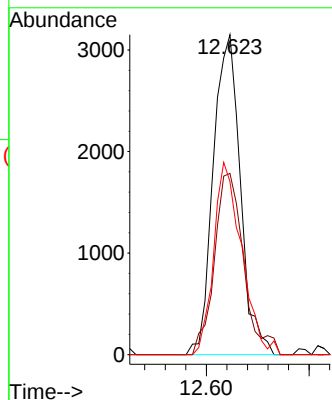
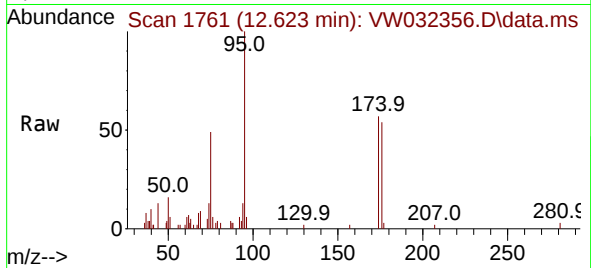




#62
4-Bromofluorobenzene
Concen: 41.774 ug/l
RT: 12.623 min Scan# 1761
Delta R.T. 0.006 min
Lab File: VW032356.D
Acq: 06 Oct 2025 14:05

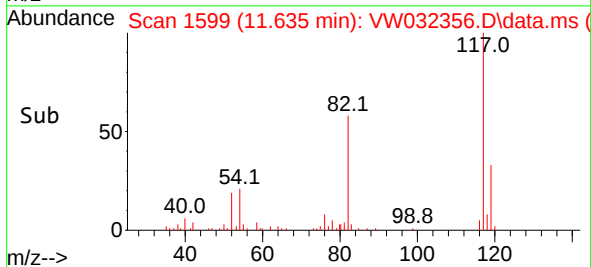
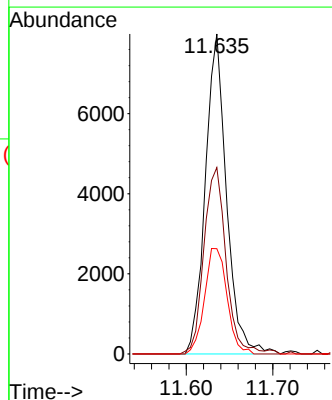
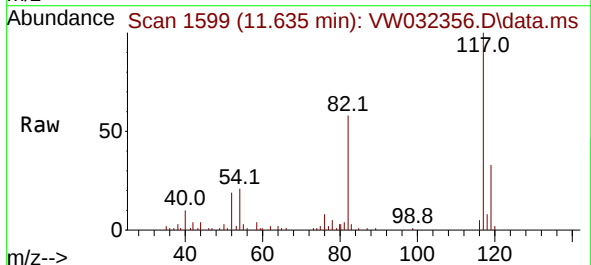
Instrument :
MSVOA_W
ClientSampleId :

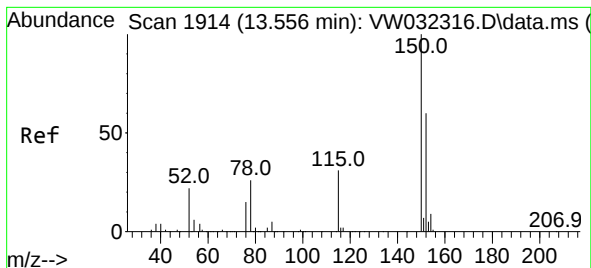
Tgt Ion: 95 Resp: 5753
Ion Ratio Lower Upper
95 100
174 61.2 0.0 145.6
176 62.3 0.0 140.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.635 min Scan# 1599
Delta R.T. 0.006 min
Lab File: VW032356.D
Acq: 06 Oct 2025 14:05

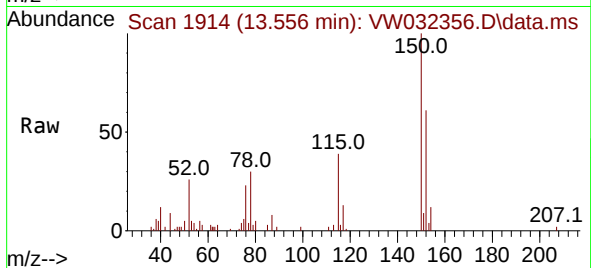
Tgt Ion: 117 Resp: 13569
Ion Ratio Lower Upper
117 100
82 58.2 42.7 64.1
119 32.9 25.2 37.8



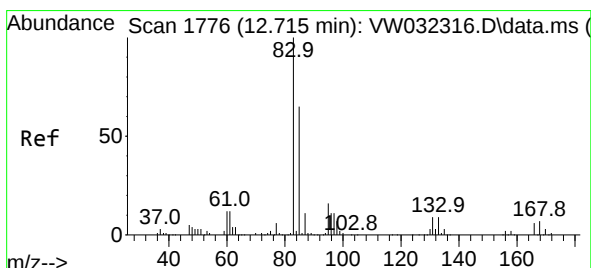
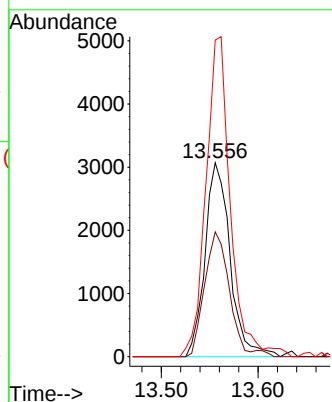
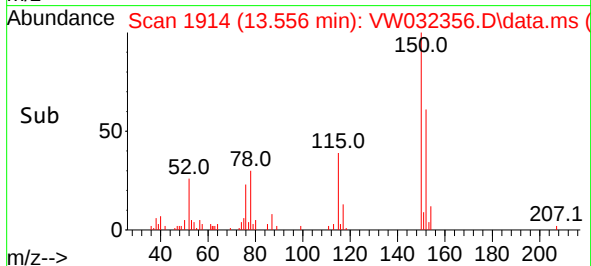


#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.556 min Scan# 1914
 Delta R.T. -0.000 min
 Lab File: VW032356.D
 Acq: 06 Oct 2025 14:05

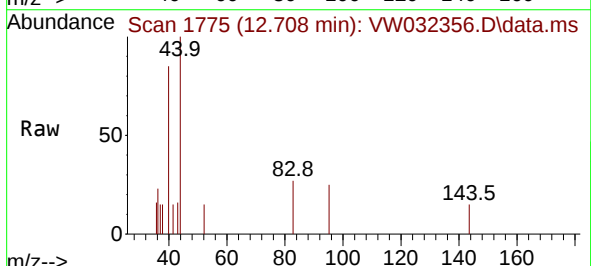
Instrument :
 MSVOA_W
 ClientSampleId :



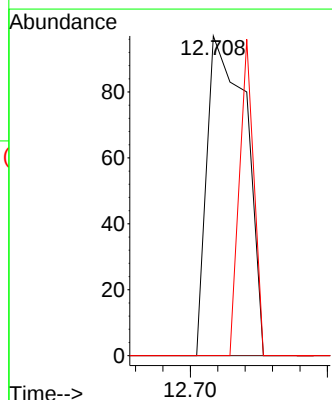
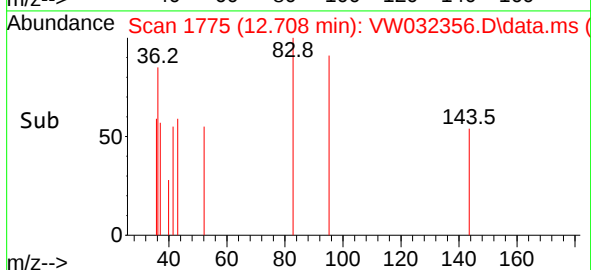
Tgt Ion:152 Resp: 5535
 Ion Ratio Lower Upper
 152 100
 115 64.2 31.8 95.4
 150 161.0 0.0 343.0

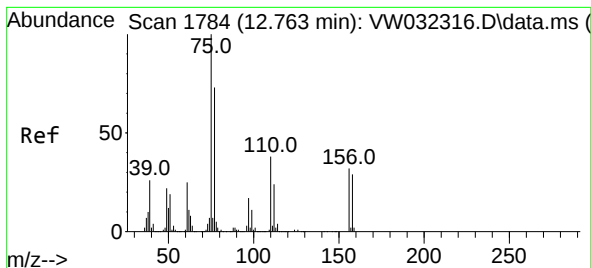


#75
 1,1,2,2-Tetrachloroethane
 Concen: 1.010 ug/l
 RT: 12.708 min Scan# 1775
 Delta R.T. -0.006 min
 Lab File: VW032356.D
 Acq: 06 Oct 2025 14:05



Tgt Ion: 83 Resp: 95
 Ion Ratio Lower Upper
 83 100
 131 0.0 5.1 15.4#
 85 36.8 32.2 96.6





#76

1,2,3-Trichloropropane

Concen: 42.395 ug/l

RT: 12.617 min Scan# 1760

Delta R.T. -0.146 min

Lab File: VW032356.D

Acq: 06 Oct 2025 14:05

Instrument :

MSVOA_W

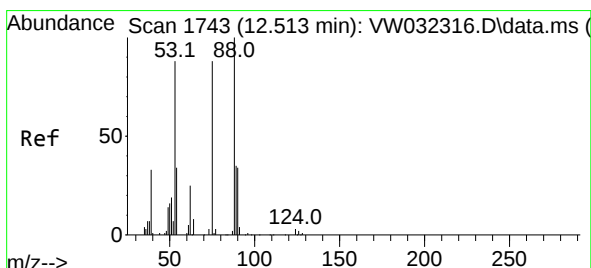
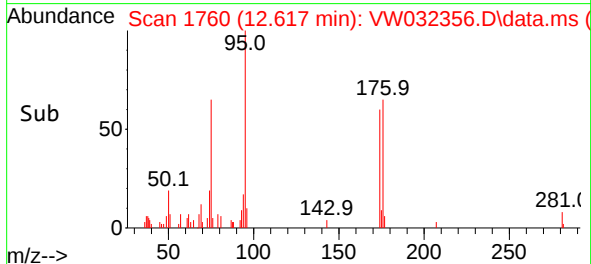
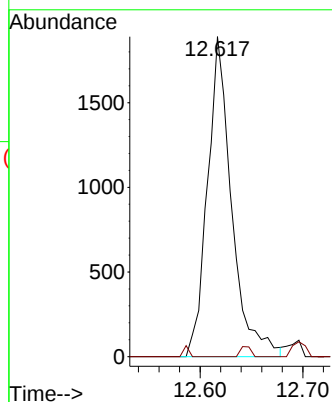
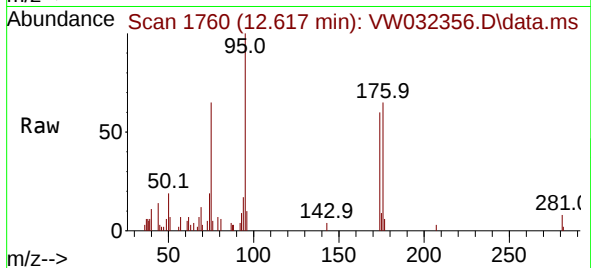
ClientSampleId :

Tgt Ion: 75 Resp: 3088

Ion Ratio Lower Upper

75 100

77 0.0 141.7 425.1#



#81

trans-1,4-Dichloro-2-butene

Concen: 107.400 ug/l

RT: 12.617 min Scan# 1760

Delta R.T. 0.104 min

Lab File: VW032356.D

Acq: 06 Oct 2025 14:05

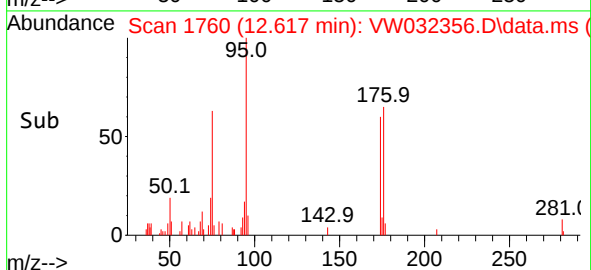
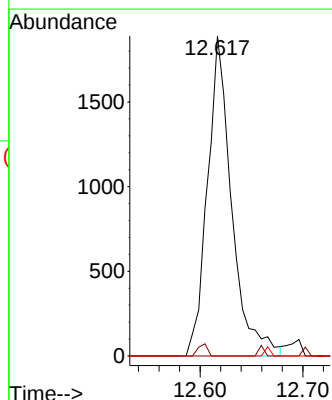
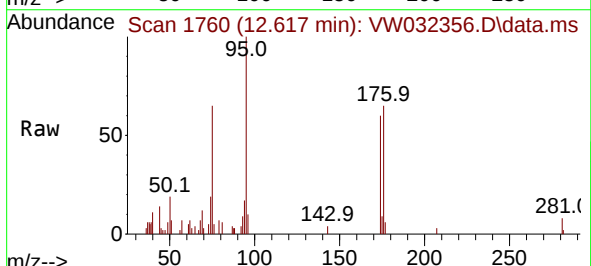
Tgt Ion: 75 Resp: 3088

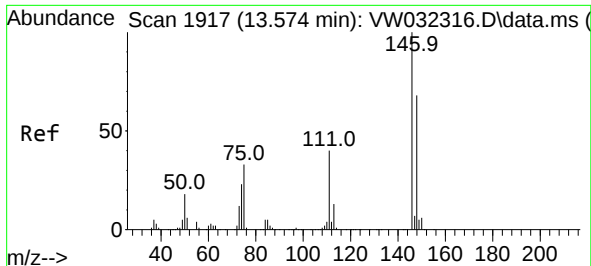
Ion Ratio Lower Upper

75 100

53 1.5 91.0 136.6#

89 0.0 39.4 59.2#

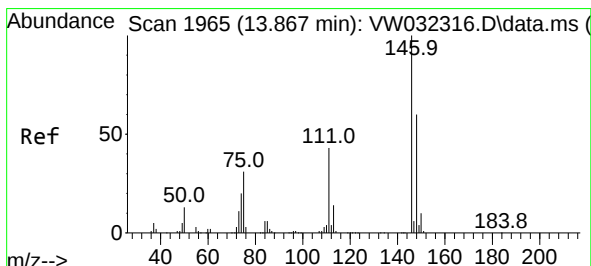
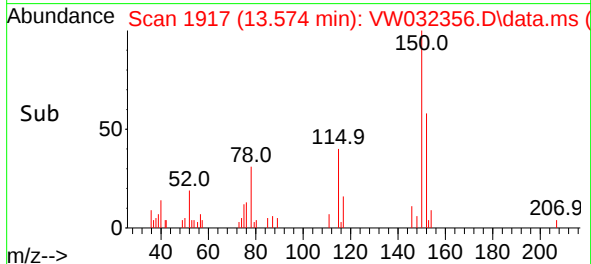
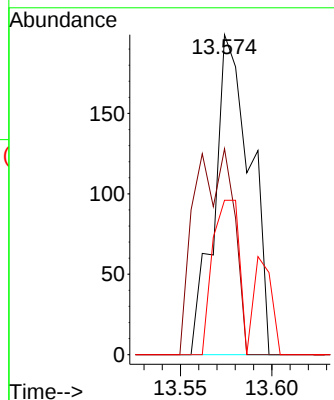
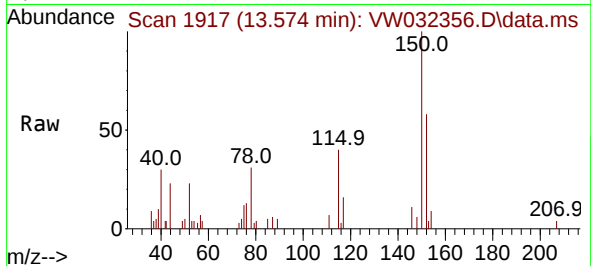




#88
1,4-Dichlorobenzene
Concen: 1.472 ug/l
RT: 13.574 min Scan# 1917
Delta R.T. -0.000 min
Lab File: VW032356.D
Acq: 06 Oct 2025 14:05

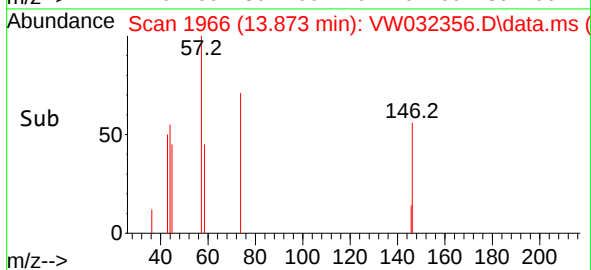
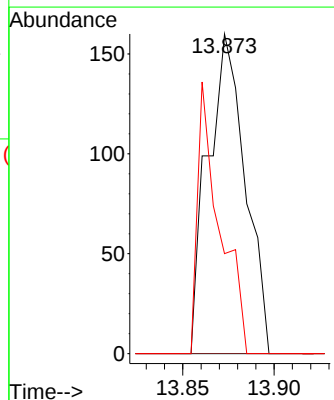
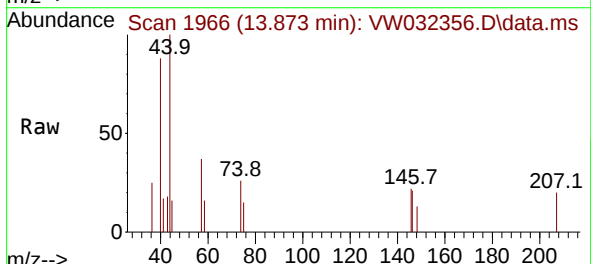
Instrument :
MSVOA_W
ClientSampleId :

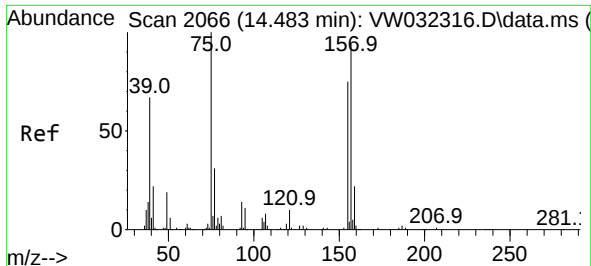
Tgt Ion:146 Resp: 272
Ion Ratio Lower Upper
146 100
111 69.9 21.3 63.7#
148 35.7 33.4 100.1



#91
1,2-Dichlorobenzene
Concen: 1.365 ug/l
RT: 13.873 min Scan# 1966
Delta R.T. 0.006 min
Lab File: VW032356.D
Acq: 06 Oct 2025 14:05

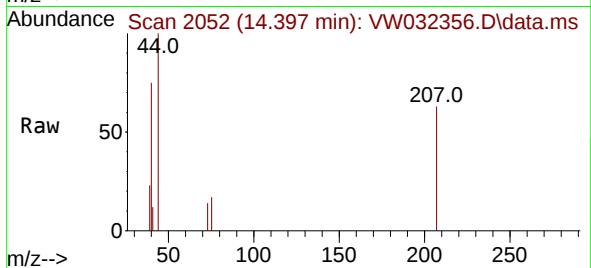
Tgt Ion:146 Resp: 228
Ion Ratio Lower Upper
146 100
111 0.0 23.4 70.0#
148 50.0 34.1 102.3



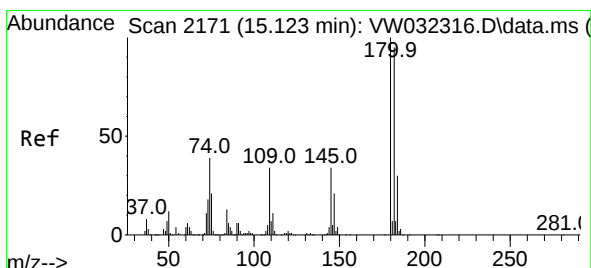
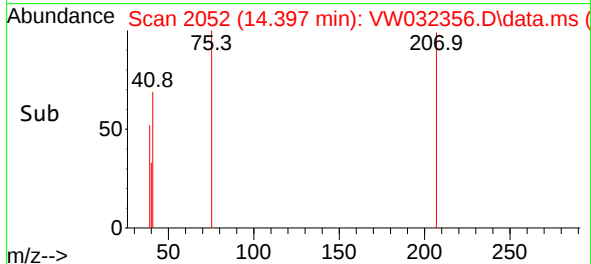
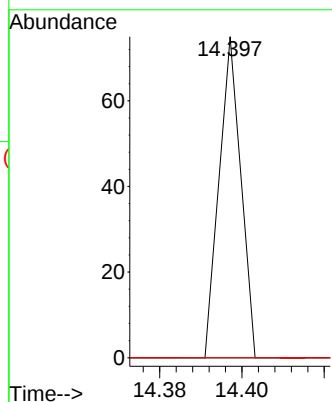


#92
1,2-Dibromo-3-Chloropropane
Concen: 1.640 ug/l
RT: 14.397 min Scan# 2066
Delta R.T. -0.085 min
Lab File: VW032356.D
Acq: 06 Oct 2025 14:05

Instrument :
MSVOA_W
ClientSampleId :

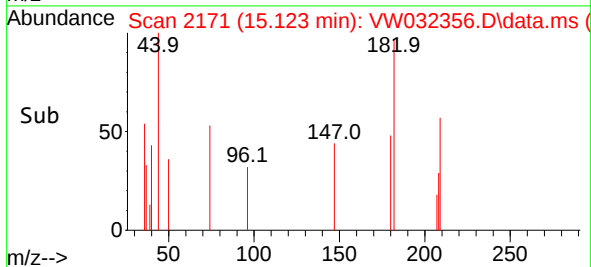
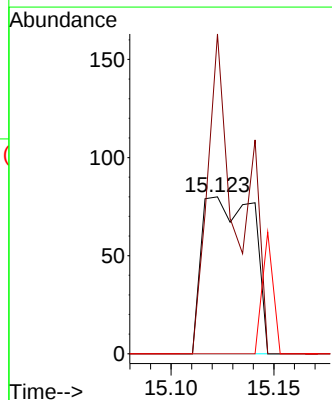
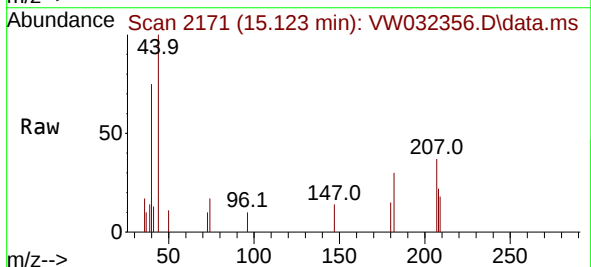


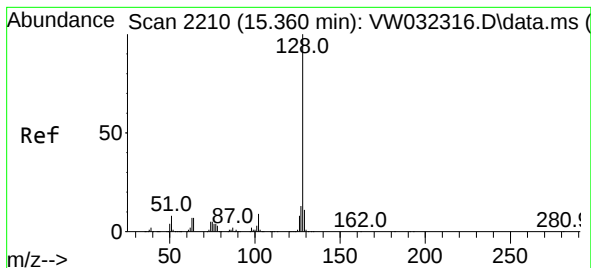
Tgt Ion: 75 Resp: 27
Ion Ratio Lower Upper
75 100
155 0.0 40.8 122.5#
157 0.0 51.8 155.4#



#93
1,2,4-Trichlorobenzene
Concen: 1.387 ug/l
RT: 15.123 min Scan# 2171
Delta R.T. -0.000 min
Lab File: VW032356.D
Acq: 06 Oct 2025 14:05

Tgt Ion: 180 Resp: 139
Ion Ratio Lower Upper
180 100
182 121.6 47.4 142.2
145 0.0 16.4 49.1#





#95

Naphthalene

Concen: 2.211 ug/l

RT: 15.366 min Scan# 2211

Delta R.T. 0.006 min

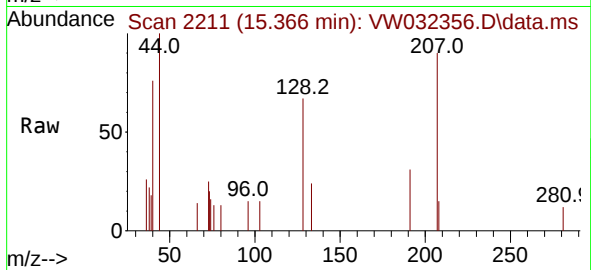
Lab File: VW032356.D

Acq: 06 Oct 2025 14:05

Instrument :

MSVOA_W

ClientSampleId :



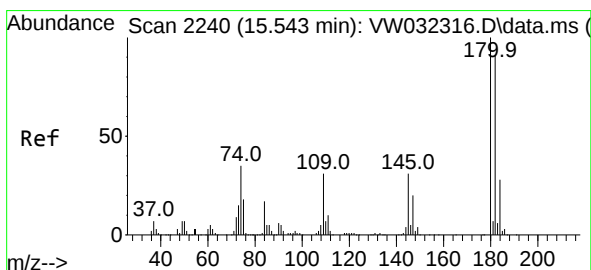
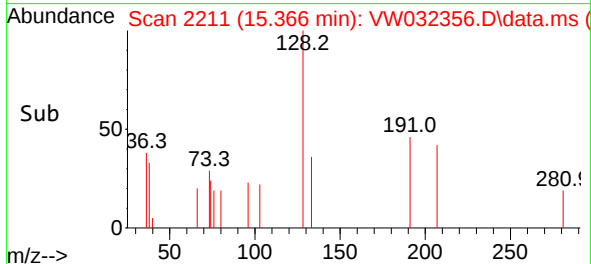
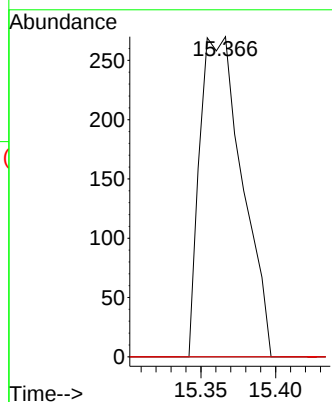
Tgt Ion:128 Resp: 532

Ion Ratio Lower Upper

128 100

127 0.0 10.6 16.0#

129 0.0 8.4 12.6#



#96

1,2,3-Trichlorobenzene

Concen: 1.631 ug/l

RT: 15.555 min Scan# 2242

Delta R.T. 0.012 min

Lab File: VW032356.D

Acq: 06 Oct 2025 14:05

Tgt Ion:180 Resp: 154

Ion Ratio Lower Upper

180 100

182 33.8 47.7 143.1#

145 0.0 17.2 51.6#

