

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW091925\
 Data File : VW032217.D
 Acq On : 19 Sep 2025 15:49
 Operator : SY/MD
 Sample : Q3153-06
 Misc : 5.37g/5mL/MSVOA_W/SOIL/A
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :

Quant Time: Sep 19 23:11:40 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W082625S.M
 Quant Title : SW846 8260
 QLast Update : Wed Aug 27 04:13:40 2025
 Response via : Initial Calibration

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

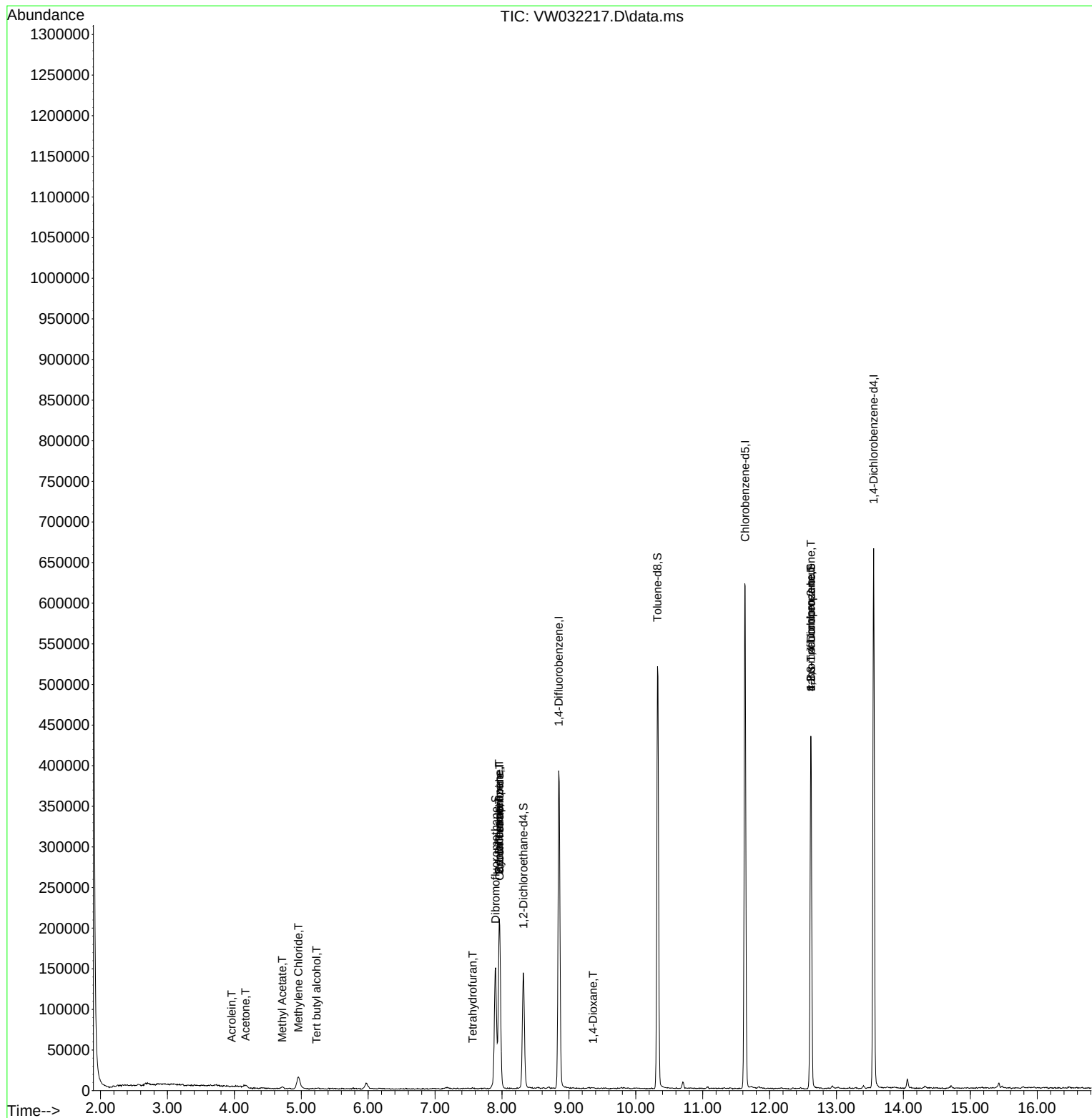
Internal Standards						
1) Pentafluorobenzene	7.959	168	145583	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.849	114	322066	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.635	117	328681	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.556	152	164129	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.319	65	116792	56.095	ug/l	0.00
Spiked Amount	50.000	Range	63 - 155	Recovery	=	112.200%
35) Dibromofluoromethane	7.904	113	104082	46.062	ug/l	0.00
Spiked Amount	50.000	Range	70 - 134	Recovery	=	92.120%
50) Toluene-d8	10.325	98	343204	43.267	ug/l	0.00
Spiked Amount	50.000	Range	74 - 123	Recovery	=	86.540%
62) 4-Bromofluorobenzene	12.617	95	145168	49.491	ug/l	0.00
Spiked Amount	50.000	Range	17 - 146	Recovery	=	98.980%
Target Compounds						
					Qvalue	
11) Tert butyl alcohol	5.228	59	136	1.068	ug/l #	1
13) Acrolein	3.960	56	347	1.773	ug/l #	32
16) Acetone	4.167	43	1849	4.101	ug/l #	59
18) Methyl Acetate	4.716	43	4380	3.049	ug/l	94
20) Methylene Chloride	4.960	84	13339	3.689	ug/l	94
29) Tetrahydrofuran	7.563	42	957	2.357	ug/l #	60
31) Cyclohexane	7.959	56	4529	1.772	ug/l #	37
36) 1,1-Dichloropropene	7.959	75	13592	4.639	ug/l #	51
38) Carbon Tetrachloride	7.965	117	17158	5.463	ug/l #	17
49) 1,4-Dioxane	9.361	88	22	1.189	ug/l #	1
76) 1,2,3-Trichloropropane	12.617	75	80554	39.176	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.617	75	80554	105.480	ug/l #	5

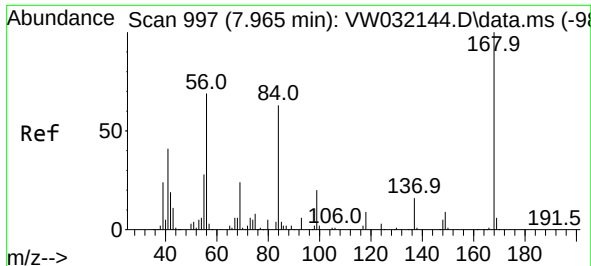
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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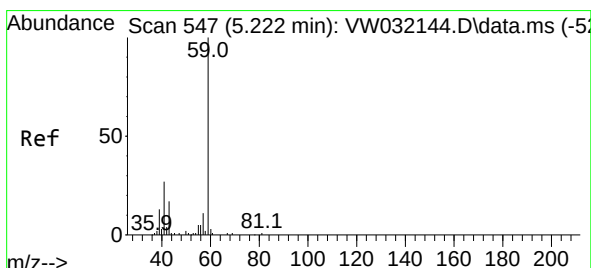
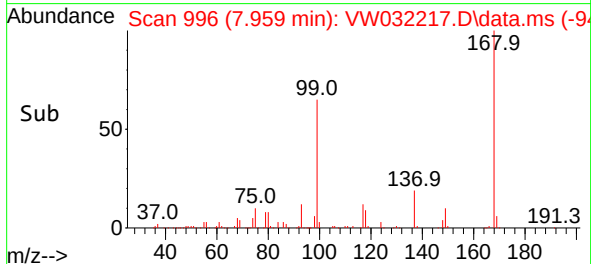
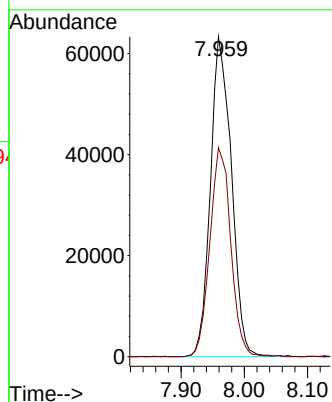
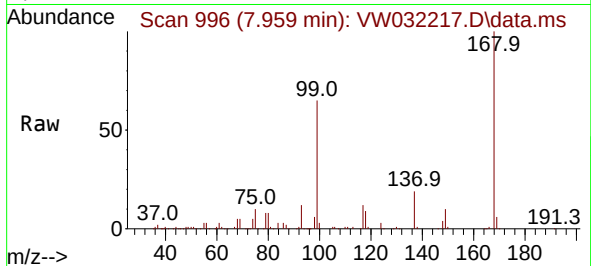




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.959 min Scan# 99
Delta R.T. -0.006 min
Lab File: VW032217.D
Acq: 19 Sep 2025 15:49

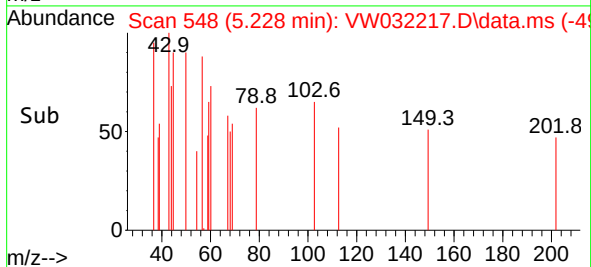
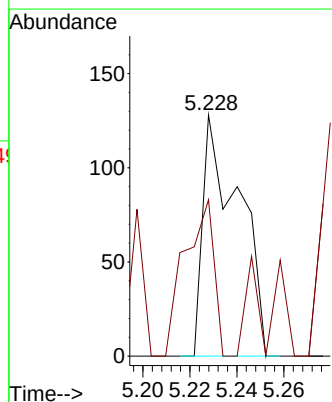
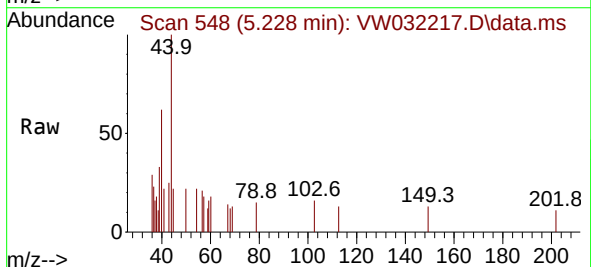
Instrument :
MSVOA_W
ClientSampleId :

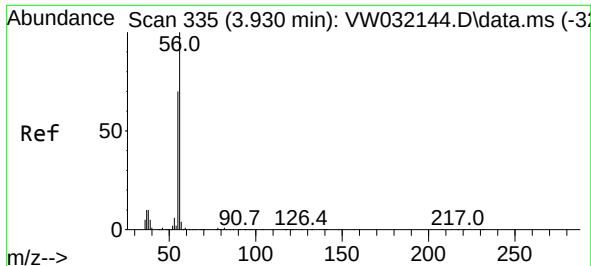
Tgt Ion:168 Resp: 145583
Ion Ratio Lower Upper
168 100
99 65.3 49.3 73.9



#11
Tert butyl alcohol
Concen: 1.068 ug/l
RT: 5.228 min Scan# 548
Delta R.T. 0.006 min
Lab File: VW032217.D
Acq: 19 Sep 2025 15:49

Tgt Ion: 59 Resp: 136
Ion Ratio Lower Upper
59 100
57 52.9 9.8 14.6#

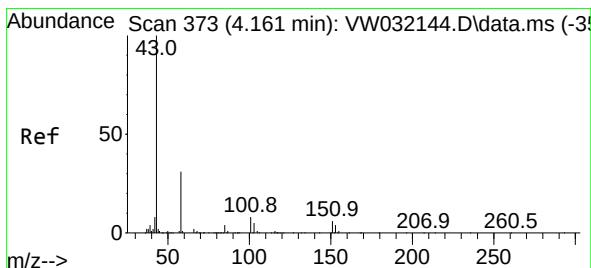
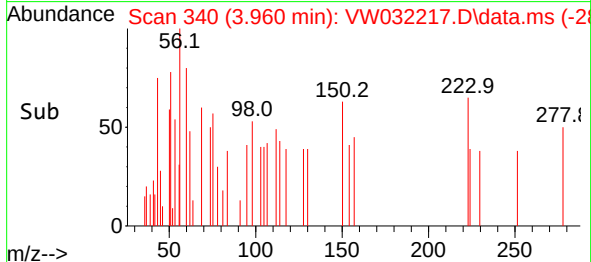
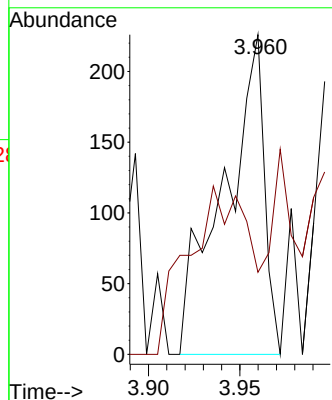
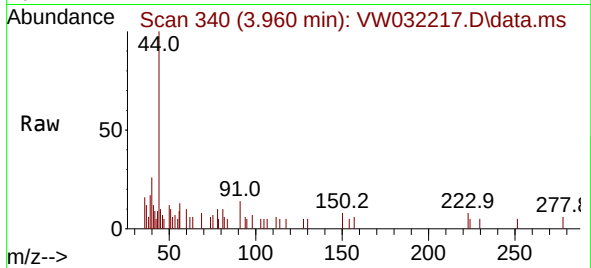




#13
Acrolein
Concen: 1.773 ug/l
RT: 3.960 min Scan# 341
Delta R.T. 0.030 min
Lab File: VW032217.D
Acq: 19 Sep 2025 15:49

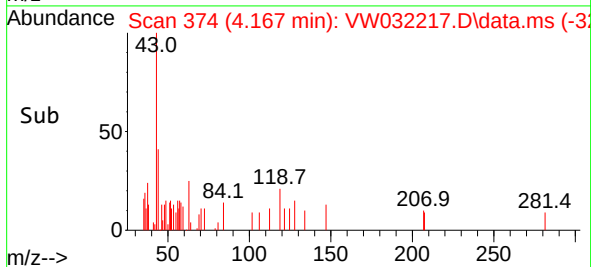
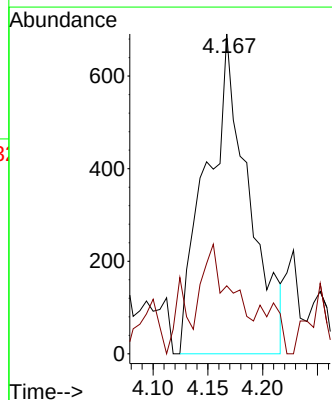
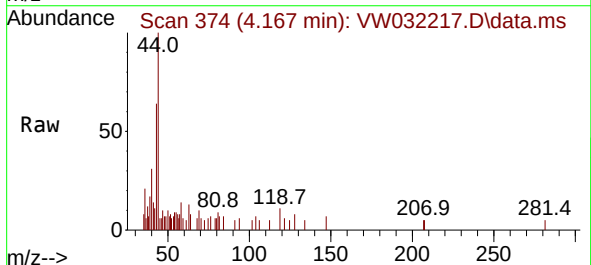
Instrument :
MSVOA_W
ClientSampleId :

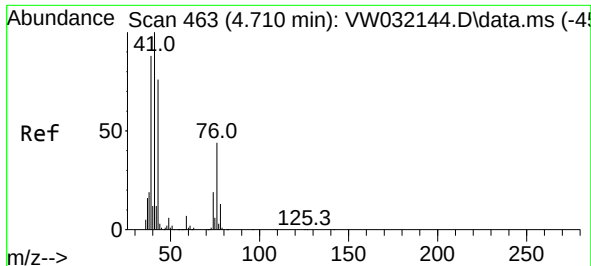
Tgt Ion: 56 Resp: 347
Ion Ratio Lower Upper
56 100
55 14.4 56.4 84.6#



#16
Acetone
Concen: 4.101 ug/l
RT: 4.167 min Scan# 374
Delta R.T. 0.006 min
Lab File: VW032217.D
Acq: 19 Sep 2025 15:49

Tgt Ion: 43 Resp: 1849
Ion Ratio Lower Upper
43 100
58 8.7 25.3 37.9#

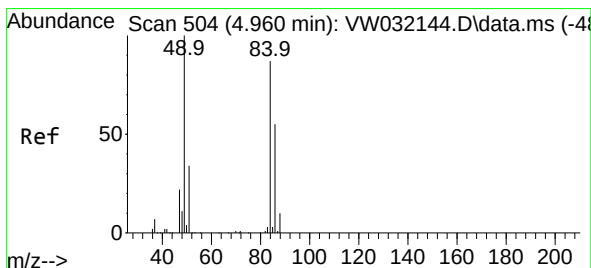
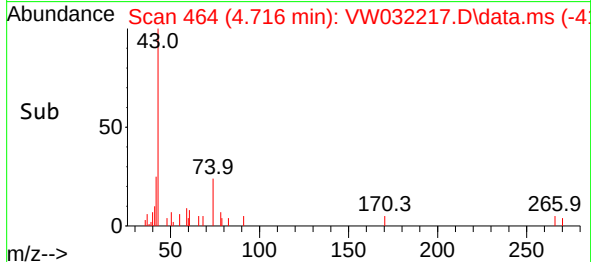
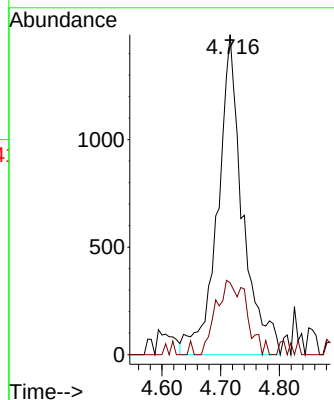
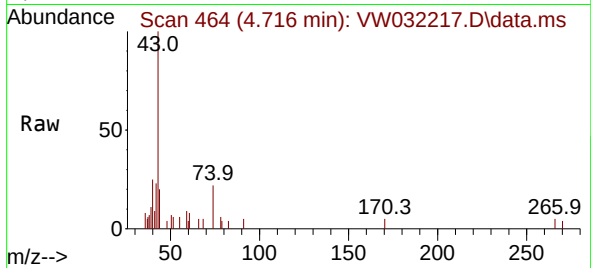




#18
Methyl Acetate
Concen: 3.049 ug/l
RT: 4.716 min Scan# 4
Delta R.T. 0.006 min
Lab File: VW032217.D
Acq: 19 Sep 2025 15:49

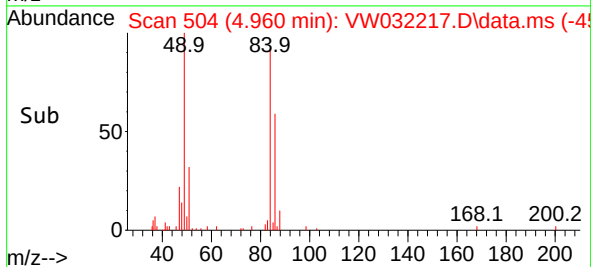
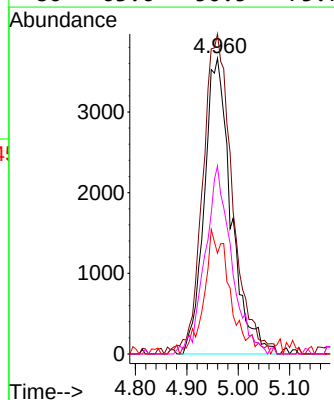
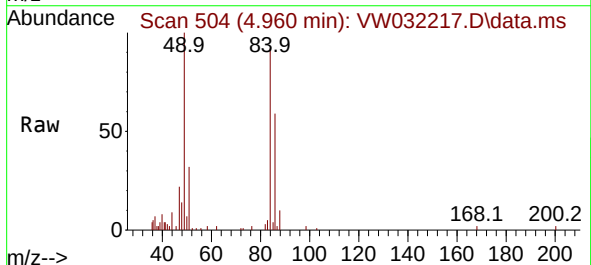
Instrument :
MSVOA_W
ClientSampleId :

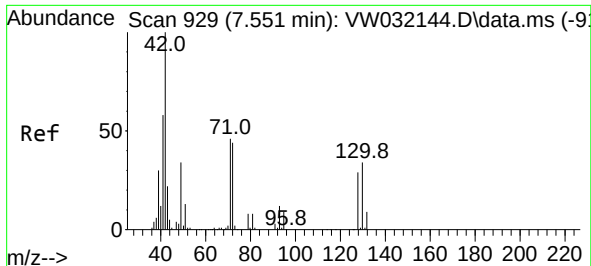
Tgt Ion: 43 Resp: 4380
Ion Ratio Lower Upper
43 100
74 28.4 20.2 30.4



#20
Methylene Chloride
Concen: 3.689 ug/l
RT: 4.960 min Scan# 504
Delta R.T. -0.000 min
Lab File: VW032217.D
Acq: 19 Sep 2025 15:49

Tgt Ion: 84 Resp: 13339
Ion Ratio Lower Upper
84 100
49 106.6 92.2 138.4
51 32.7 31.0 46.6
86 63.6 50.5 75.7

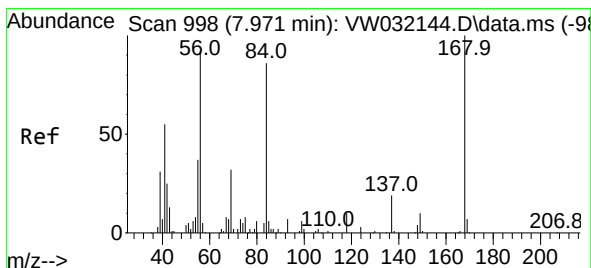
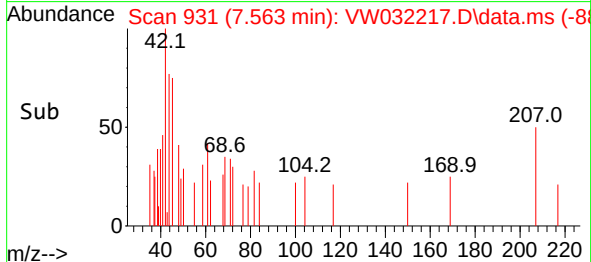
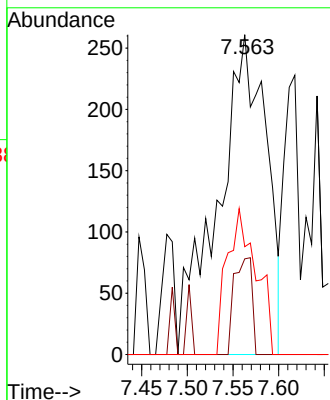
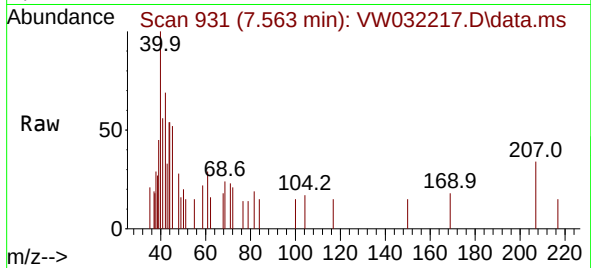




#29
Tetrahydrofuran
Concen: 2.357 ug/l
RT: 7.563 min Scan# 91
Delta R.T. 0.012 min
Lab File: VW032217.D
Acq: 19 Sep 2025 15:49

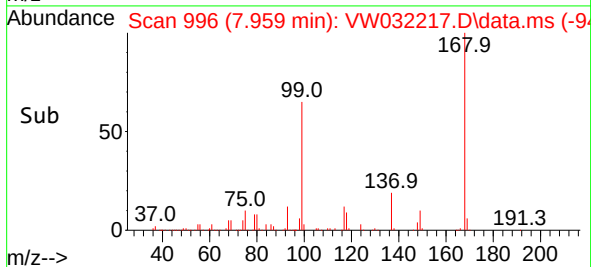
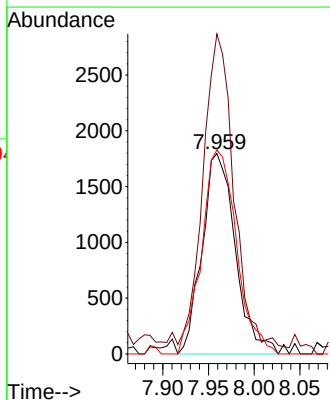
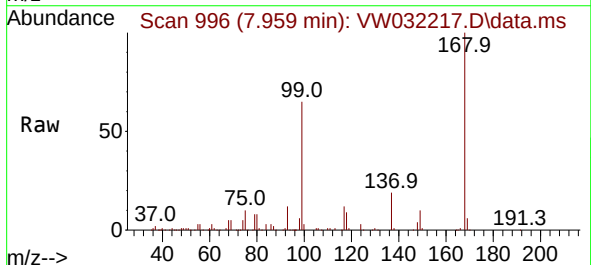
Instrument :
MSVOA_W
ClientSampleId :

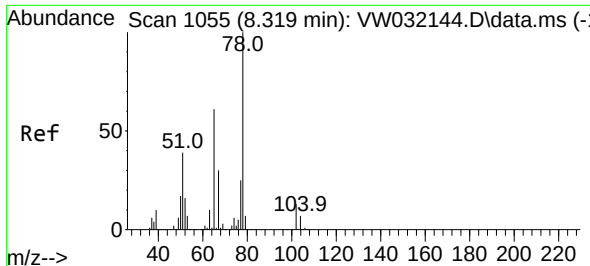
Tgt Ion: 42 Resp: 957
Ion Ratio Lower Upper
42 100
72 11.1 37.4 56.2#
71 27.6 36.0 54.0#



#31
Cyclohexane
Concen: 1.772 ug/l
RT: 7.959 min Scan# 996
Delta R.T. -0.012 min
Lab File: VW032217.D
Acq: 19 Sep 2025 15:49

Tgt Ion: 56 Resp: 4529
Ion Ratio Lower Upper
56 100
69 155.3 27.7 41.5#
84 101.8 74.6 112.0





#33

1,2-Dichloroethane-d4

Concen: 56.095 ug/l

RT: 8.319 min Scan# 1055

Delta R.T. -0.000 min

Lab File: VW032217.D

Acq: 19 Sep 2025 15:49

Instrument :

MSVOA_W

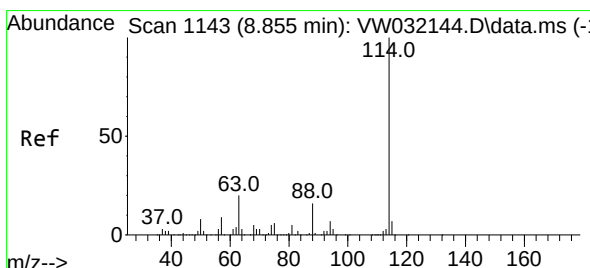
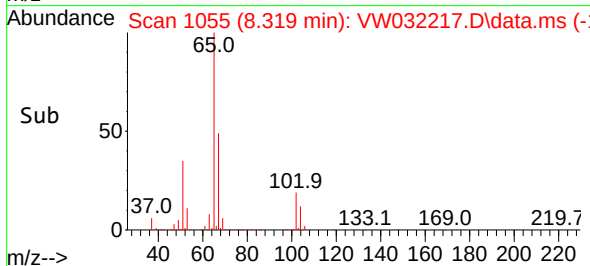
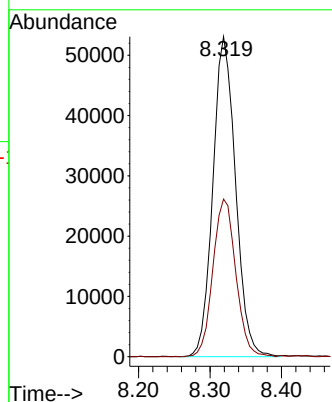
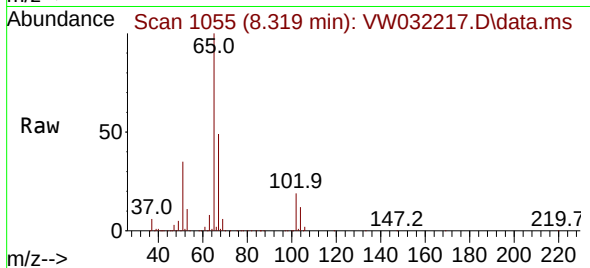
ClientSampleId :

Tgt Ion: 65 Resp: 116792

Ion Ratio Lower Upper

65 100

67 49.7 0.0 99.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.849 min Scan# 1142

Delta R.T. -0.006 min

Lab File: VW032217.D

Acq: 19 Sep 2025 15:49

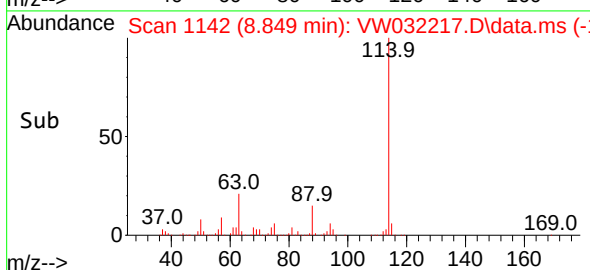
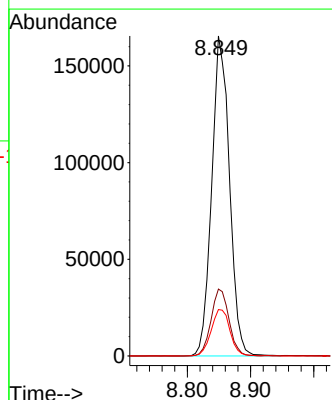
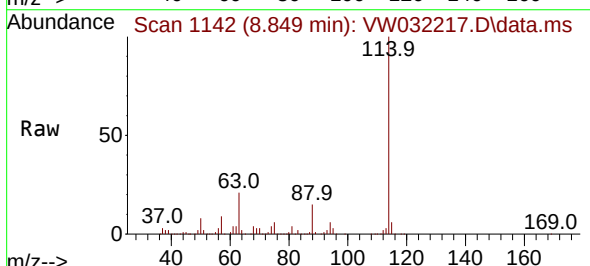
Tgt Ion: 114 Resp: 322066

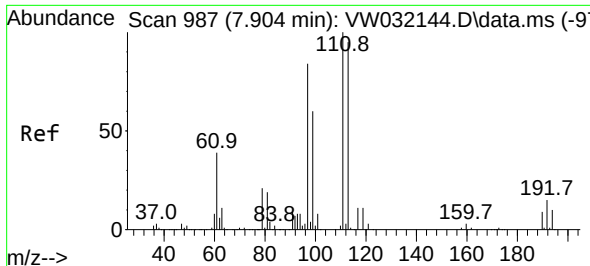
Ion Ratio Lower Upper

114 100

63 20.9 0.0 40.4

88 14.5 0.0 32.0

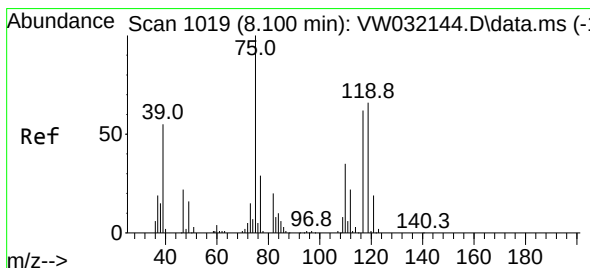
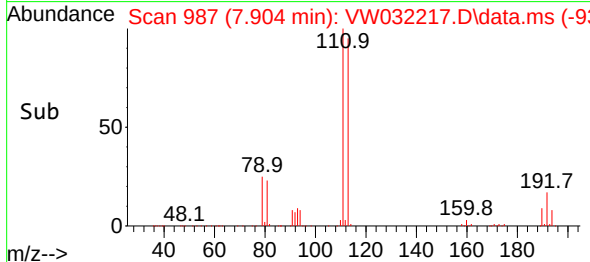
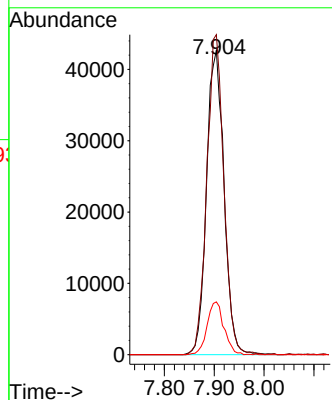
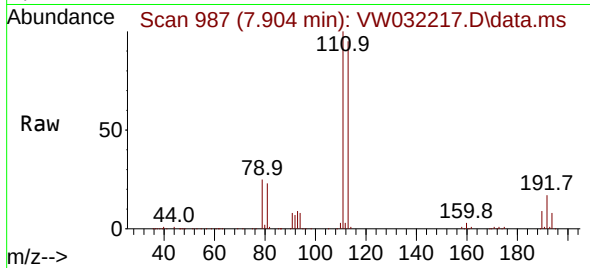




#35
Dibromofluoromethane
Concen: 46.062 ug/l
RT: 7.904 min Scan# 995
Delta R.T. -0.000 min
Lab File: VW032217.D
Acq: 19 Sep 2025 15:49

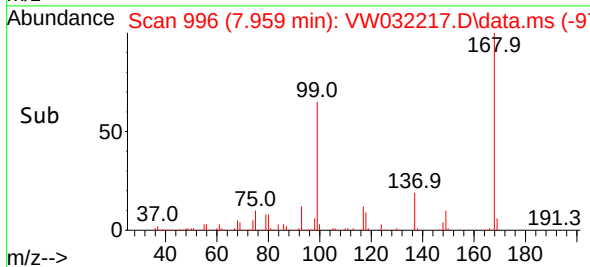
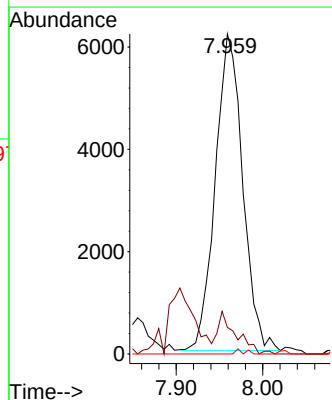
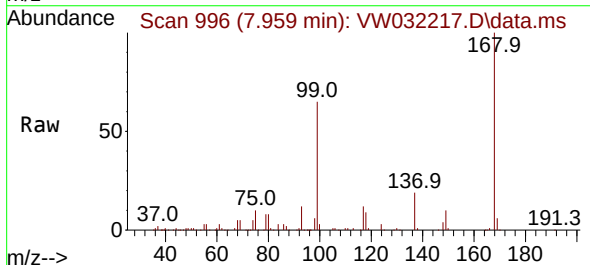
Instrument :
MSVOA_W
ClientSampleId :

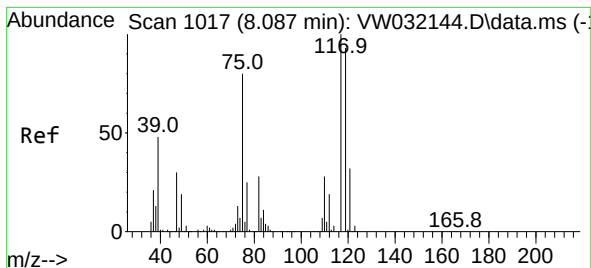
Tgt Ion:113 Resp: 104082
Ion Ratio Lower Upper
113 100
111 102.6 83.9 125.9
192 16.7 14.6 21.8



#36
1,1-Dichloropropene
Concen: 4.639 ug/l
RT: 7.959 min Scan# 996
Delta R.T. -0.140 min
Lab File: VW032217.D
Acq: 19 Sep 2025 15:49

Tgt Ion: 75 Resp: 13592
Ion Ratio Lower Upper
75 100
110 9.0 17.5 52.5#
77 0.5 24.1 36.1#





#38

Carbon Tetrachloride

Concen: 5.463 ug/l

RT: 7.965 min Scan# 99

Delta R.T. -0.122 min

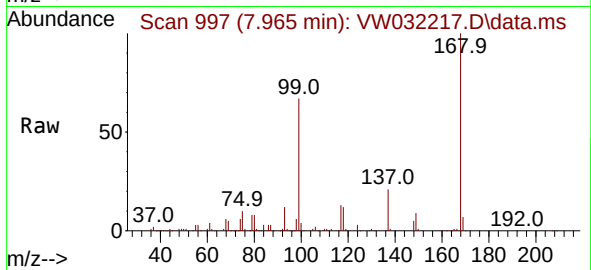
Lab File: VW032217.D

Acq: 19 Sep 2025 15:49

Instrument :

MSVOA_W

ClientSampleId :



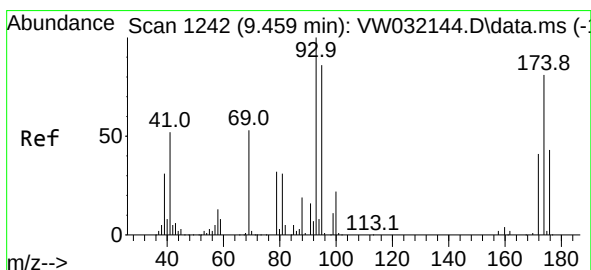
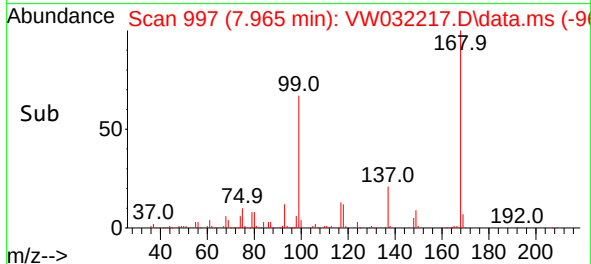
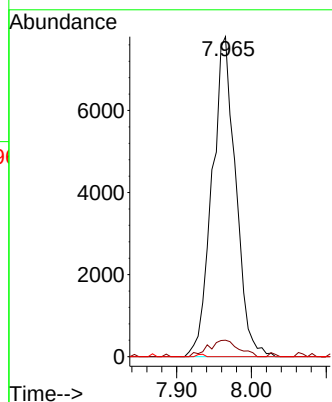
Tgt Ion: 117 Resp: 17158

Ion Ratio Lower Upper

117 100

119 5.1 74.2 111.2#

121 0.0 25.6 38.4#



#49

1,4-Dioxane

Concen: 1.189 ug/l

RT: 9.361 min Scan# 1226

Delta R.T. -0.098 min

Lab File: VW032217.D

Acq: 19 Sep 2025 15:49

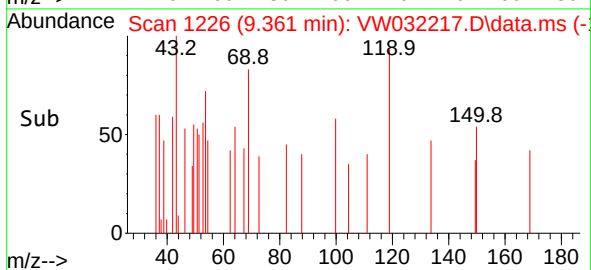
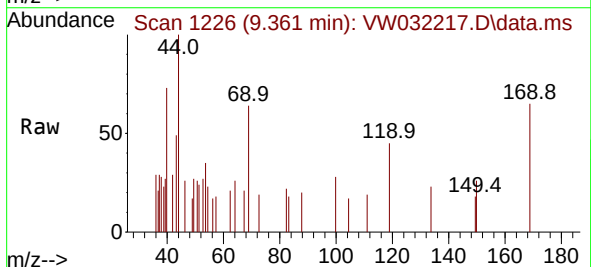
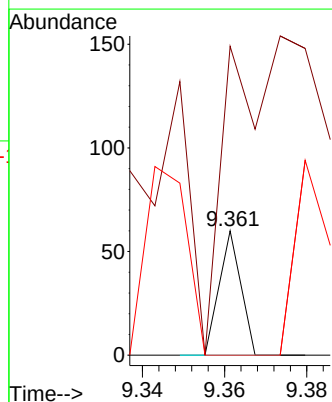
Tgt Ion: 88 Resp: 22

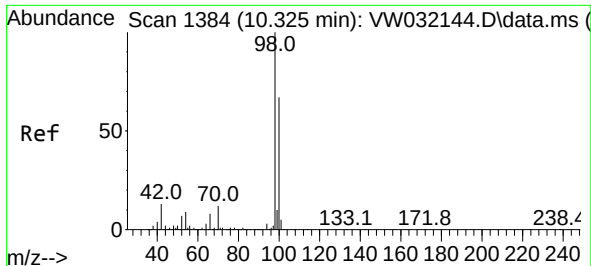
Ion Ratio Lower Upper

88 100

43 1763.6 18.0 27.0#

58 331.8 55.4 83.0#

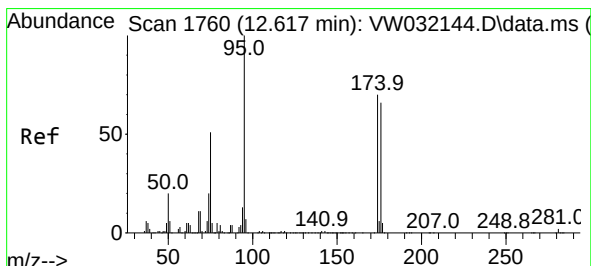
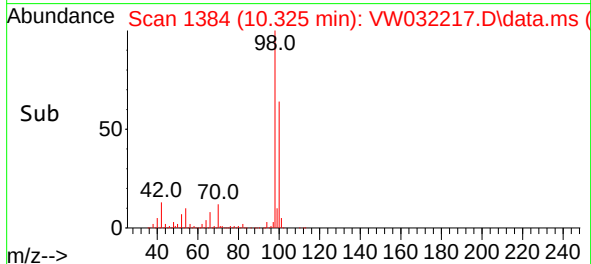
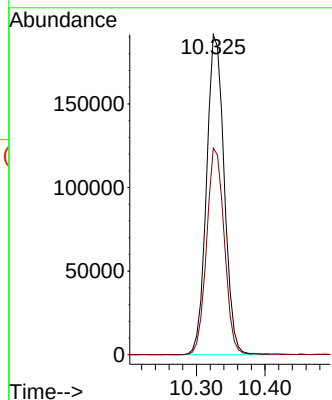
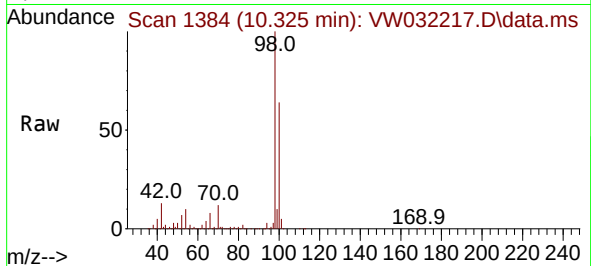




#50
Toluene-d8
Concen: 43.267 ug/l
RT: 10.325 min Scan# 11
Delta R.T. -0.000 min
Lab File: VW032217.D
Acq: 19 Sep 2025 15:49

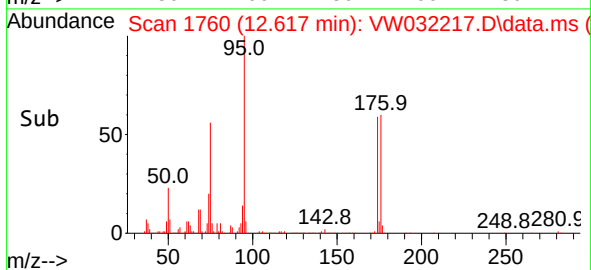
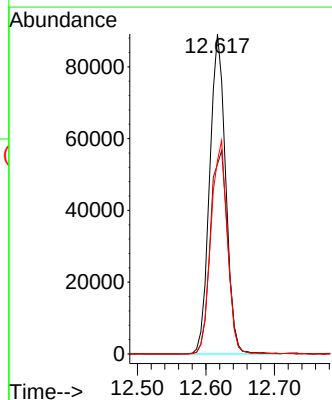
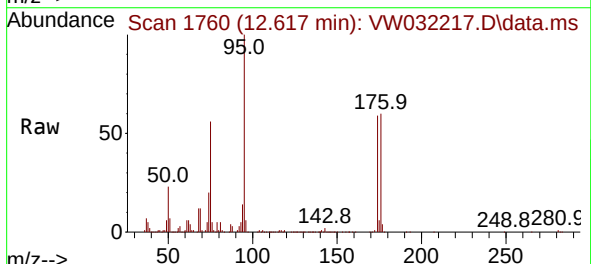
Instrument :
MSVOA_W
ClientSampleId :

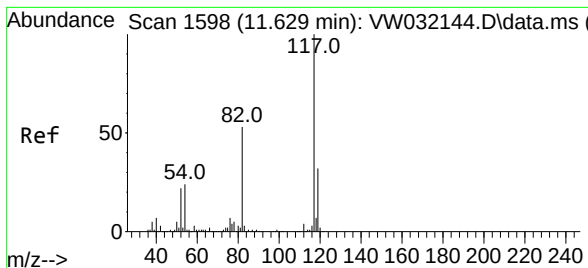
Tgt Ion: 98 Resp: 343204
Ion Ratio Lower Upper
98 100
100 64.6 51.4 77.2



#62
4-Bromofluorobenzene
Concen: 49.491 ug/l
RT: 12.617 min Scan# 1760
Delta R.T. -0.000 min
Lab File: VW032217.D
Acq: 19 Sep 2025 15:49

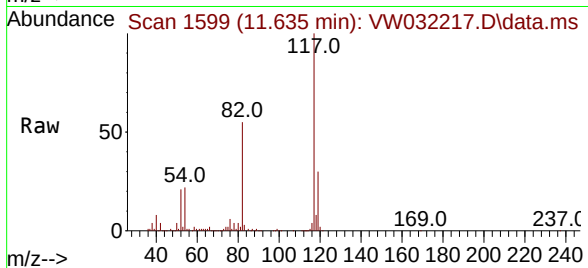
Tgt Ion: 95 Resp: 145168
Ion Ratio Lower Upper
95 100
174 68.7 0.0 145.6
176 68.0 0.0 140.8



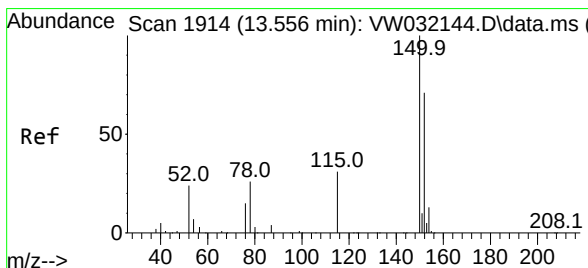
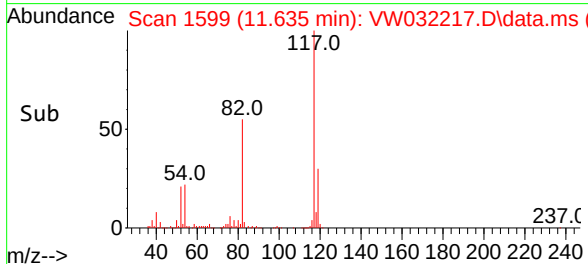
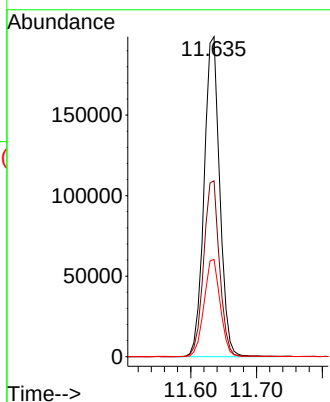


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.635 min Scan# 11599
Delta R.T. 0.006 min
Lab File: VW032217.D
Acq: 19 Sep 2025 15:49

Instrument :
MSVOA_W
ClientSampleId :

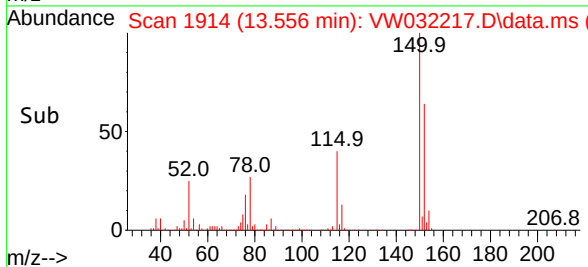
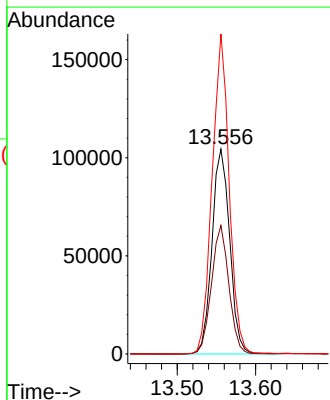
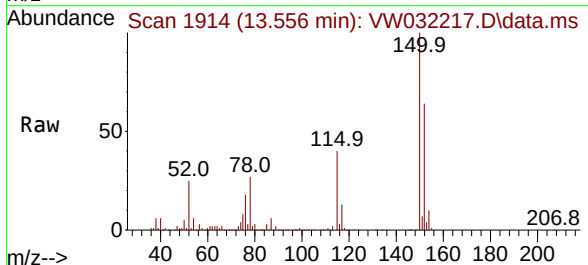


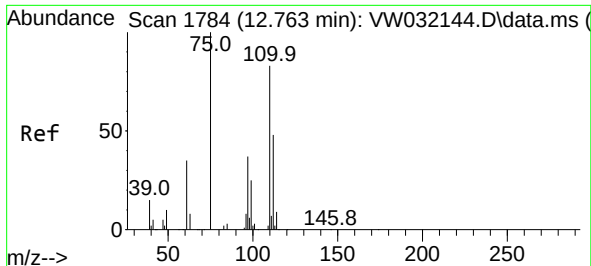
Tgt Ion:117 Resp: 328681
Ion Ratio Lower Upper
117 100
82 54.9 42.7 64.1
119 30.3 25.2 37.8



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.556 min Scan# 1914
Delta R.T. -0.000 min
Lab File: VW032217.D
Acq: 19 Sep 2025 15:49

Tgt Ion:152 Resp: 164129
Ion Ratio Lower Upper
152 100
115 61.7 31.8 95.4
150 150.6 0.0 343.0

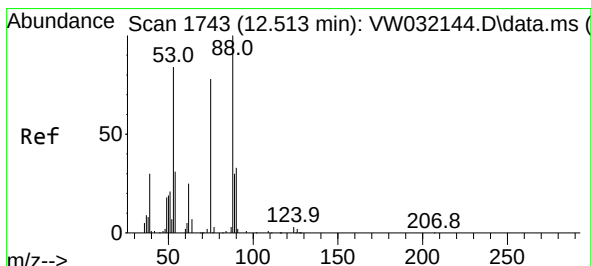
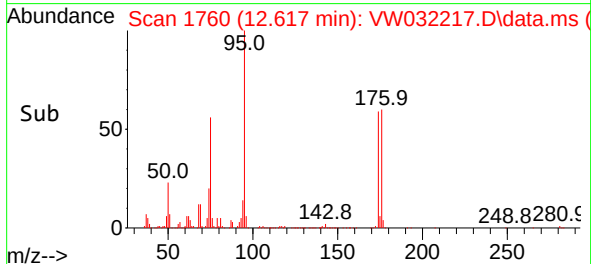
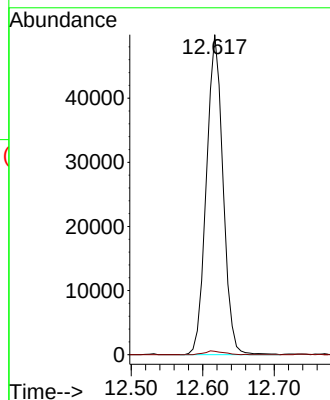
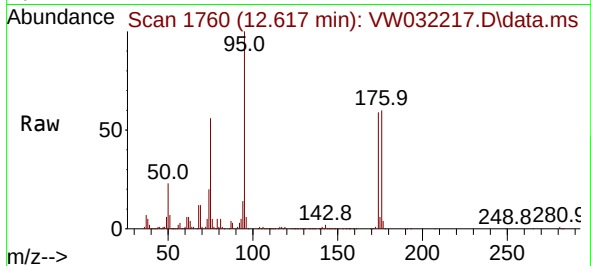




#76
1,2,3-Trichloropropane
Concen: 39.176 ug/l
RT: 12.617 min Scan# 1760
Delta R.T. -0.146 min
Lab File: VW032217.D
Acq: 19 Sep 2025 15:49

Instrument :
MSVOA_W
ClientSampleId :

Tgt Ion: 75 Resp: 80554
Ion Ratio Lower Upper
75 100
77 1.3 141.7 425.1#



#81
trans-1,4-Dichloro-2-butene
Concen: 105.480 ug/l
RT: 12.617 min Scan# 1760
Delta R.T. 0.103 min
Lab File: VW032217.D
Acq: 19 Sep 2025 15:49

Tgt Ion: 75 Resp: 80554
Ion Ratio Lower Upper
75 100
53 0.4 91.0 136.6#
89 0.0 39.4 59.2#

