

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW091925\
 Data File : VW032209.D
 Acq On : 19 Sep 2025 12:02
 Operator : SY/MD
 Sample : Q3138-03
 Misc : 4.25g/5mL/MSVOA_W/SOIL/A
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :

Quant Time: Sep 19 23:07:00 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)

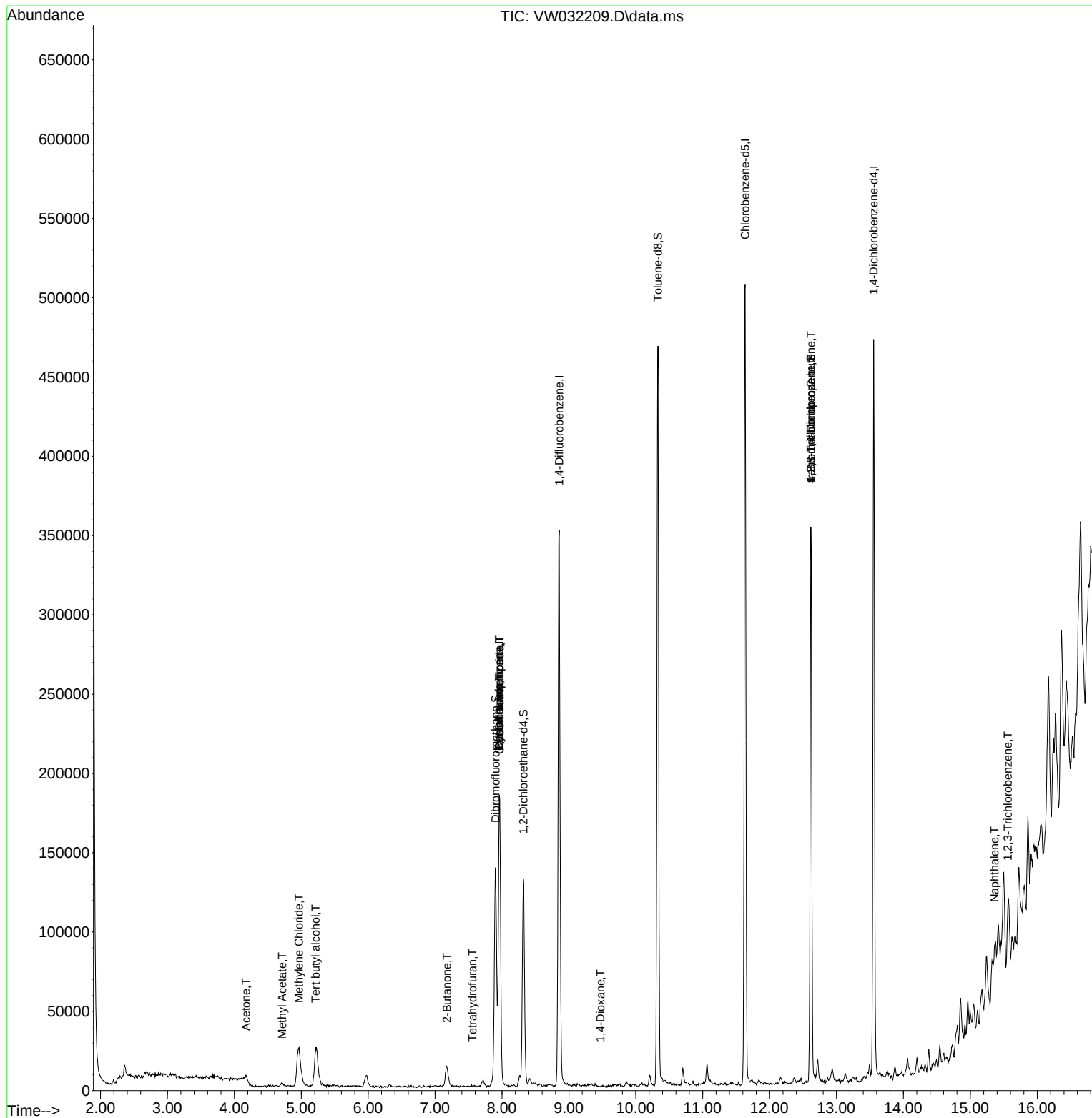
Internal Standards						
1) Pentafluorobenzene	7.959	168	128055	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.855	114	283436	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.635	117	273222	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.556	152	110786	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.319	65	109345	59.707	ug/l	0.00
Spiked Amount 50.000	Range 63 - 155		Recovery = 119.420%			
35) Dibromofluoromethane	7.904	113	97708	49.135	ug/l	0.00
Spiked Amount 50.000	Range 70 - 134		Recovery = 98.260%			
50) Toluene-d8	10.331	98	302646	43.354	ug/l	0.00
Spiked Amount 50.000	Range 74 - 123		Recovery = 86.700%			
62) 4-Bromofluorobenzene	12.617	95	112592	43.617	ug/l	0.00
Spiked Amount 50.000	Range 17 - 146		Recovery = 87.240%			
Target Compounds					Qvalue	
11) Tert butyl alcohol	5.216	59	43724	390.326	ug/l	99
16) Acetone	4.173	43	3406	8.588	ug/l	97
18) Methyl Acetate	4.716	43	4425	3.502	ug/l #	75
20) Methylene Chloride	4.966	84	24004	11.622	ug/l	98
25) 2-Butanone	7.179	43	693	1.233	ug/l #	48
29) Tetrahydrofuran	7.557	42	428	1.198	ug/l #	39
31) Cyclohexane	7.959	56	3865	1.719	ug/l #	27
36) 1,1-Dichloropropene	7.959	75	12129	4.704	ug/l #	52
38) Carbon Tetrachloride	7.965	117	14655	5.302	ug/l #	18
49) 1,4-Dioxane	9.471	88	56	3.439	ug/l #	24
76) 1,2,3-Trichloropropane	12.617	75	63733	45.920	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.617	75	63733	123.637	ug/l #	5
95) Naphthalene	15.360	128	26795	5.416	ug/l	98
96) 1,2,3-Trichlorobenzene	15.561	180	2412	1.186	ug/l #	12

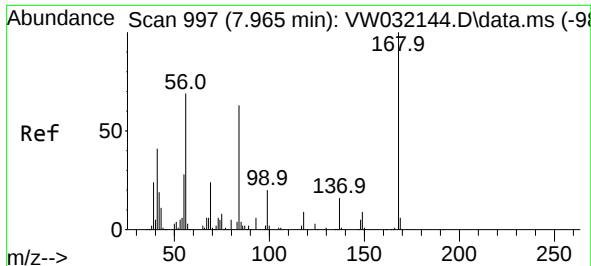
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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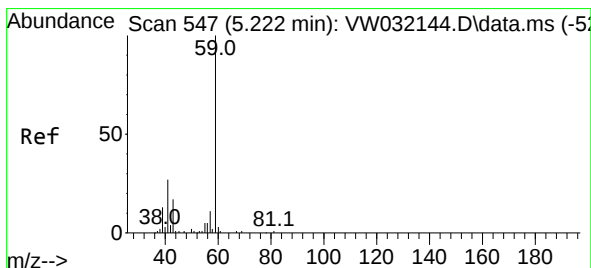
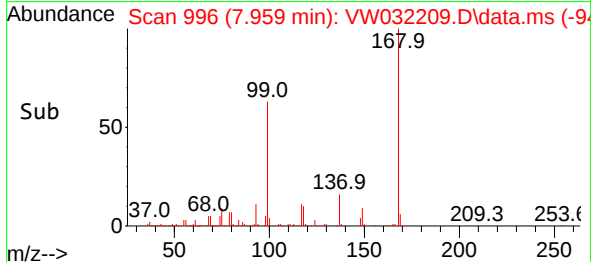
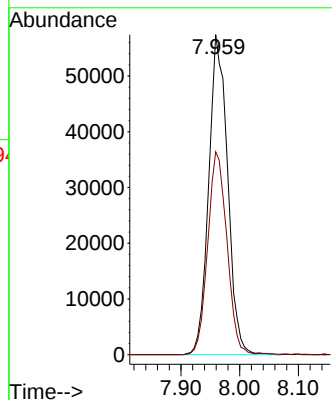
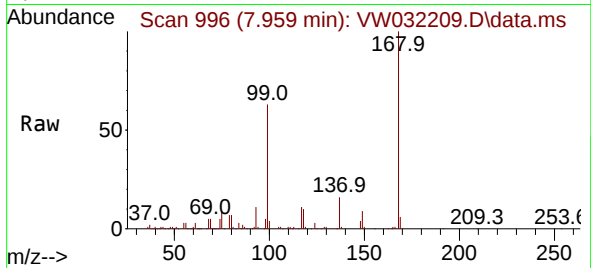




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.959 min Scan# 99
Delta R.T. -0.006 min
Lab File: VW032209.D
Acq: 19 Sep 2025 12:02

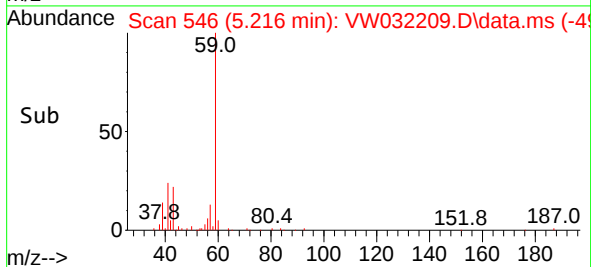
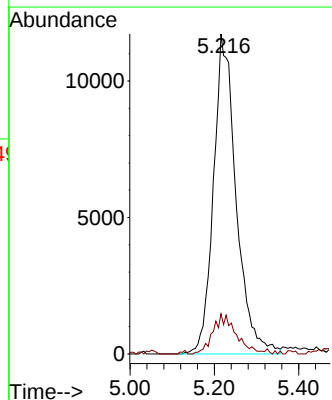
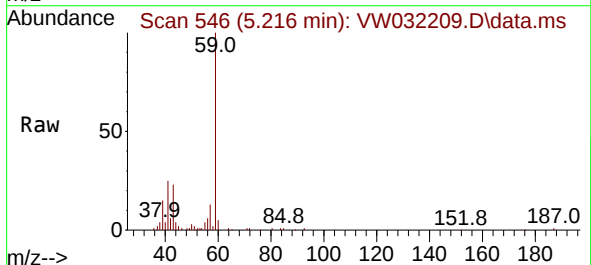
Instrument :
MSVOA_W
ClientSampleId :

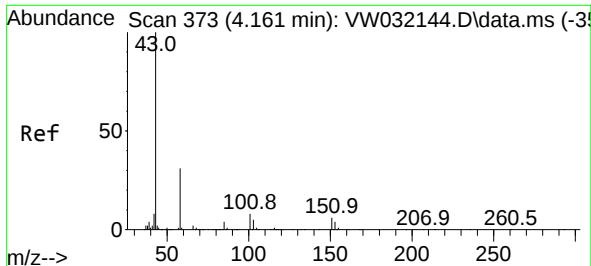
Tgt Ion:168 Resp: 128055
Ion Ratio Lower Upper
168 100
99 63.4 49.3 73.9



#11
Tert butyl alcohol
Concen: 390.326 ug/l
RT: 5.216 min Scan# 546
Delta R.T. -0.006 min
Lab File: VW032209.D
Acq: 19 Sep 2025 12:02

Tgt Ion: 59 Resp: 43724
Ion Ratio Lower Upper
59 100
57 12.6 9.8 14.6

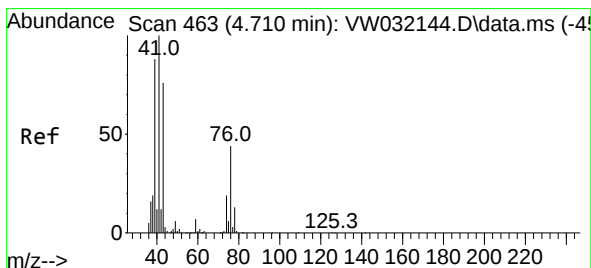
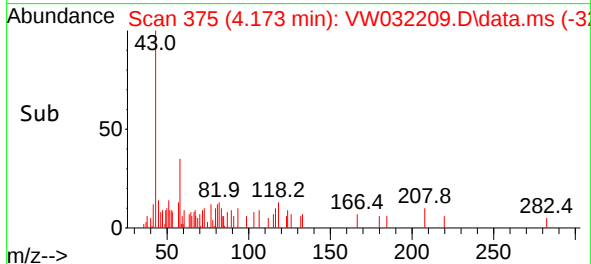
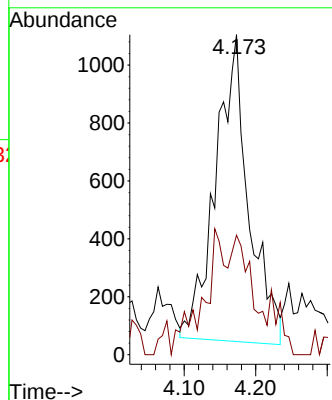
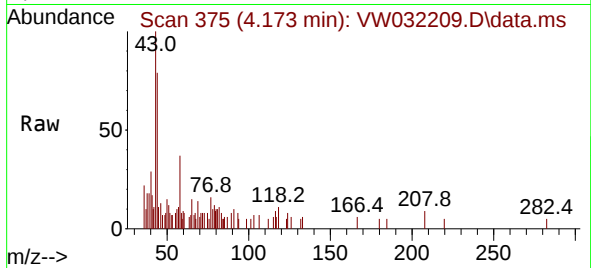




#16
Acetone
Concen: 8.588 ug/l
RT: 4.173 min Scan# 31
Delta R.T. 0.012 min
Lab File: VW032209.D
Acq: 19 Sep 2025 12:02

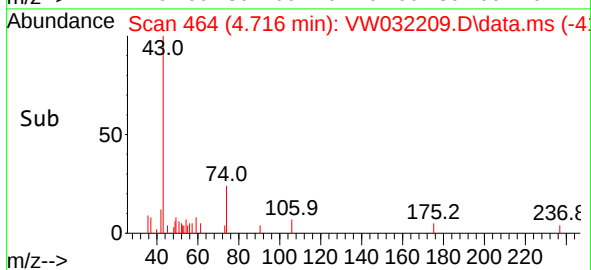
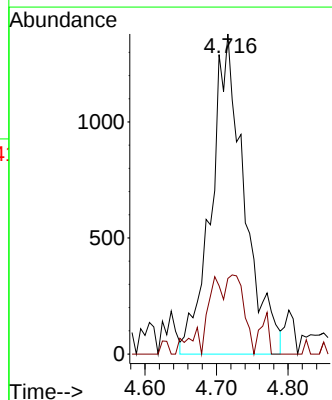
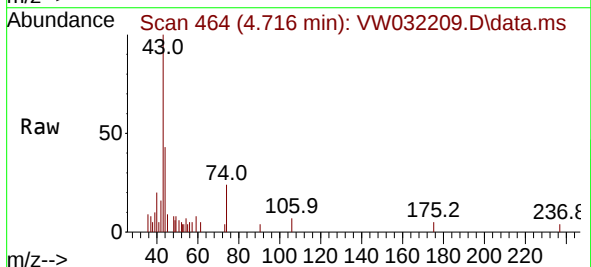
Instrument :
MSVOA_W
ClientSampleId :

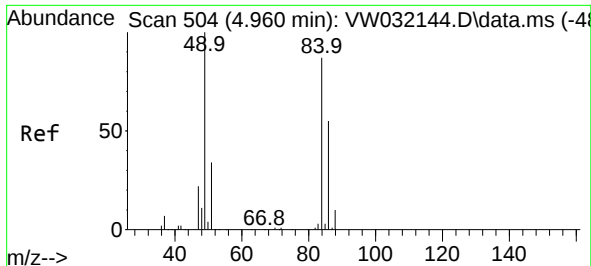
Tgt Ion: 43 Resp: 3406
Ion Ratio Lower Upper
43 100
58 33.1 25.3 37.9



#18
Methyl Acetate
Concen: 3.502 ug/l
RT: 4.716 min Scan# 464
Delta R.T. 0.006 min
Lab File: VW032209.D
Acq: 19 Sep 2025 12:02

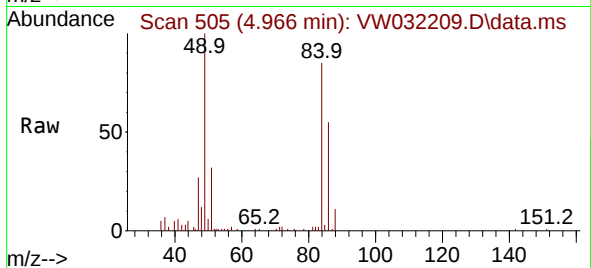
Tgt Ion: 43 Resp: 4425
Ion Ratio Lower Upper
43 100
74 12.9 20.2 30.4#



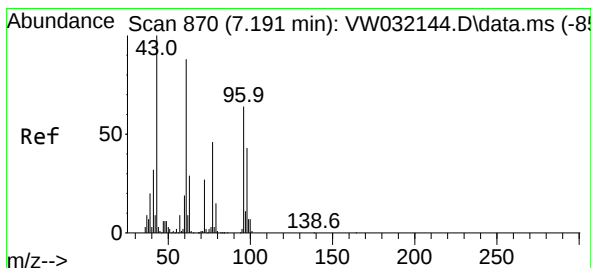
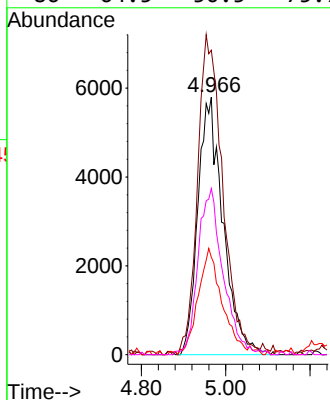
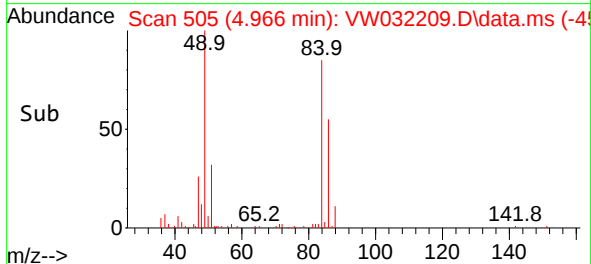


#20
Methylene Chloride
Concen: 11.622 ug/l
RT: 4.966 min Scan# 504
Delta R.T. 0.006 min
Lab File: VW032209.D
Acq: 19 Sep 2025 12:02

Instrument :
MSVOA_W
ClientSampleId :

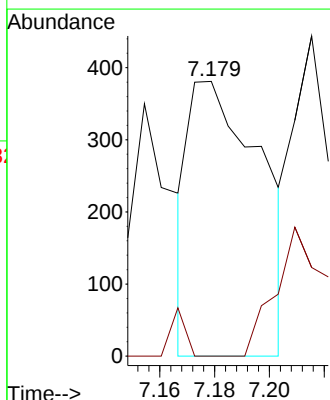
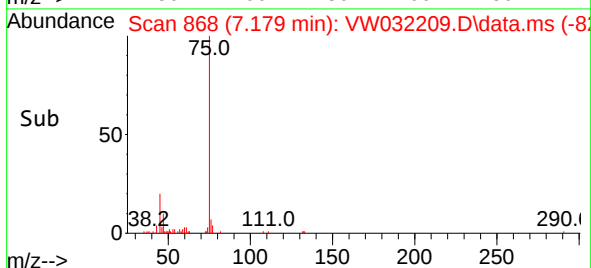
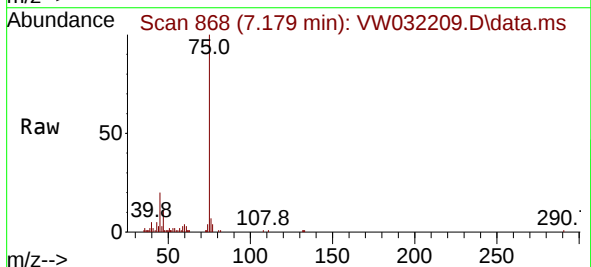


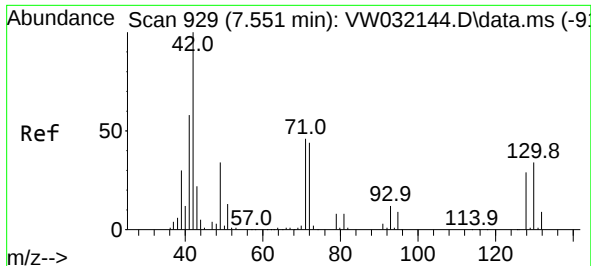
Tgt Ion:	84	Resp:	24004
Ion	Ratio	Lower	Upper
84	100		
49	118.2	92.2	138.4
51	37.8	31.0	46.6
86	64.5	50.5	75.7



#25
2-Butanone
Concen: 1.233 ug/l
RT: 7.179 min Scan# 868
Delta R.T. -0.012 min
Lab File: VW032209.D
Acq: 19 Sep 2025 12:02

Tgt Ion:	43	Resp:	693
Ion	Ratio	Lower	Upper
43	100		
72	0.0	21.4	32.2#





#29

Tetrahydrofuran

Concen: 1.198 ug/l

RT: 7.557 min Scan# 91

Delta R.T. 0.006 min

Lab File: VW032209.D

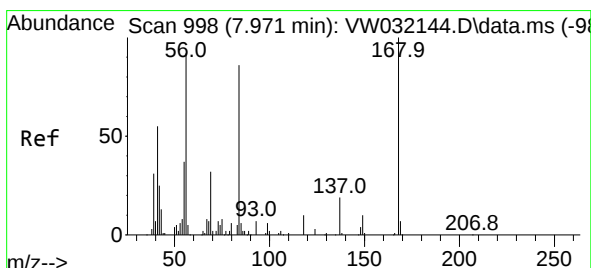
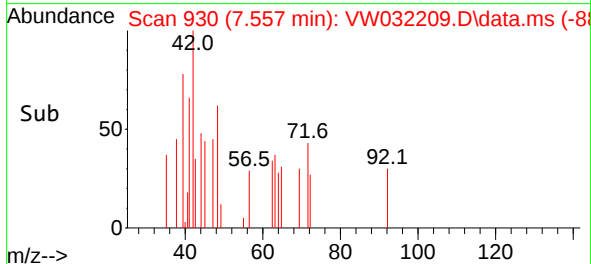
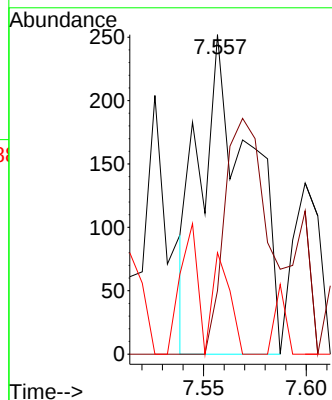
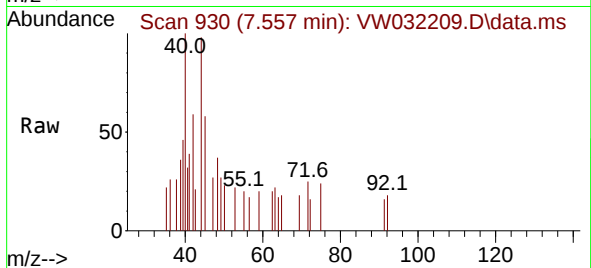
Acq: 19 Sep 2025 12:02

Instrument :

MSVOA_W

ClientSampleId :

Tgt Ion:	42	Resp:	428
Ion	Ratio	Lower	Upper
42	100		
72	82.2	37.4	56.2#
71	0.0	36.0	54.0#



#31

Cyclohexane

Concen: 1.719 ug/l

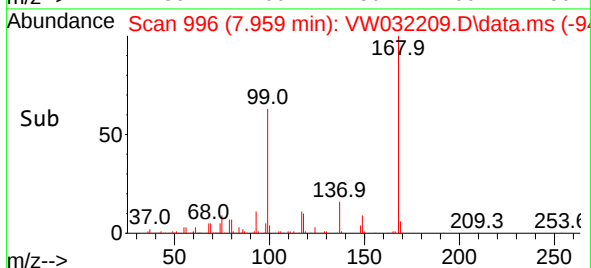
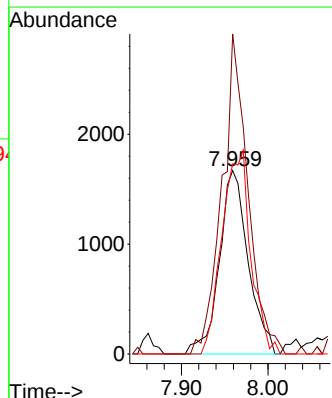
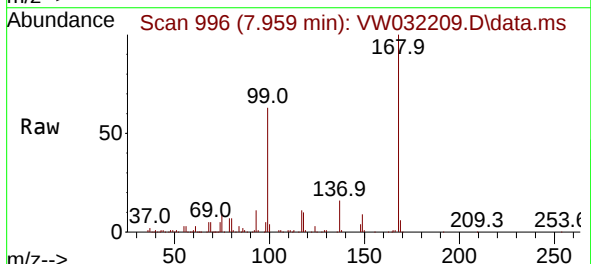
RT: 7.959 min Scan# 996

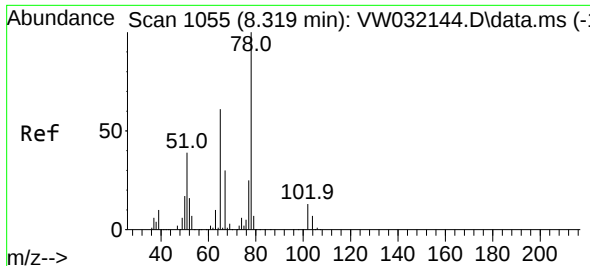
Delta R.T. -0.012 min

Lab File: VW032209.D

Acq: 19 Sep 2025 12:02

Tgt Ion:	56	Resp:	3865
Ion	Ratio	Lower	Upper
56	100		
69	174.5	27.7	41.5#
84	103.7	74.6	112.0





#33

1,2-Dichloroethane-d4

Concen: 59.707 ug/l

RT: 8.319 min Scan# 1055

Delta R.T. -0.000 min

Lab File: VW032209.D

Acq: 19 Sep 2025 12:02

Instrument :

MSVOA_W

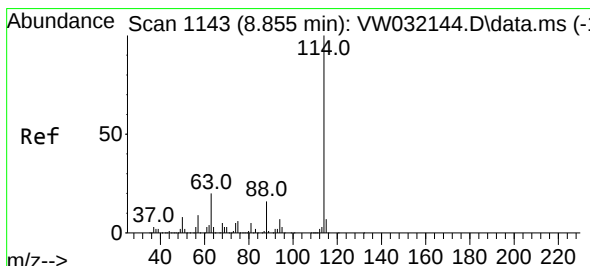
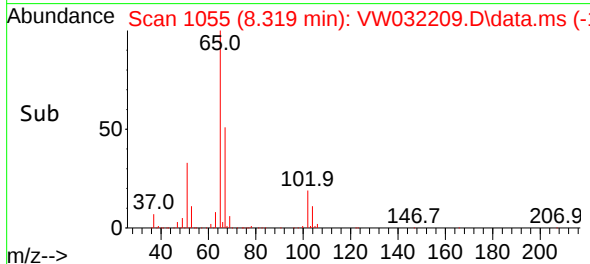
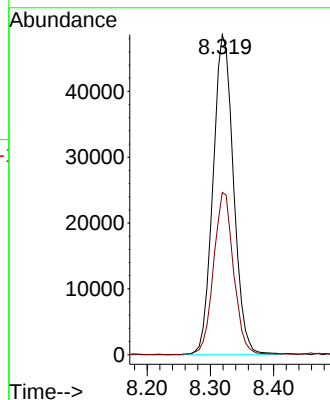
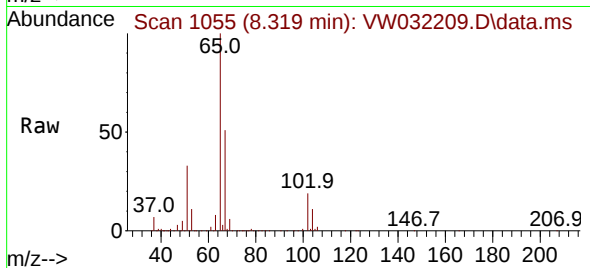
ClientSampleId :

Tgt Ion: 65 Resp: 109345

Ion Ratio Lower Upper

65 100

67 49.7 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: VW032209.D

Acq: 19 Sep 2025 12:02

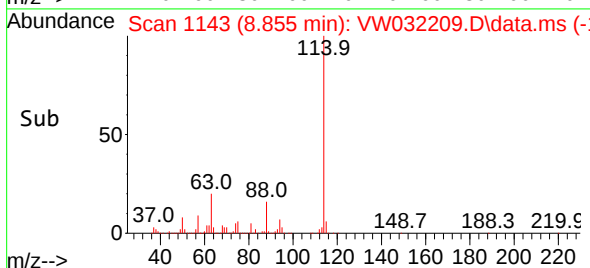
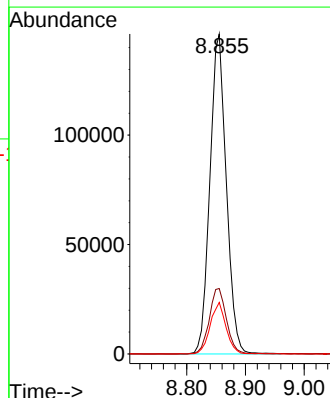
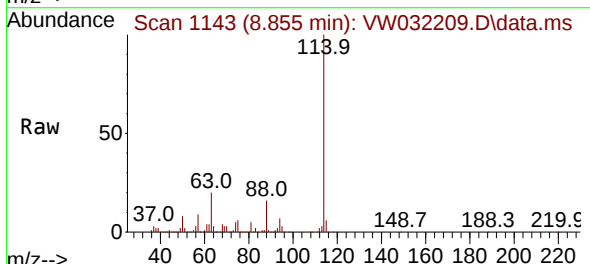
Tgt Ion: 114 Resp: 283436

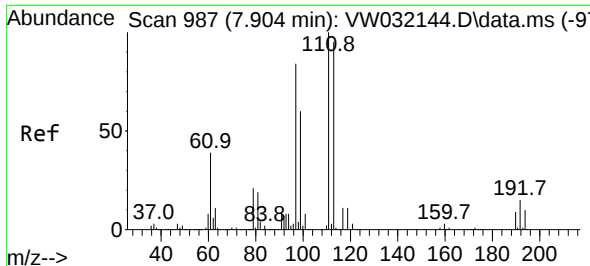
Ion Ratio Lower Upper

114 100

63 20.4 0.0 40.4

88 16.1 0.0 32.0

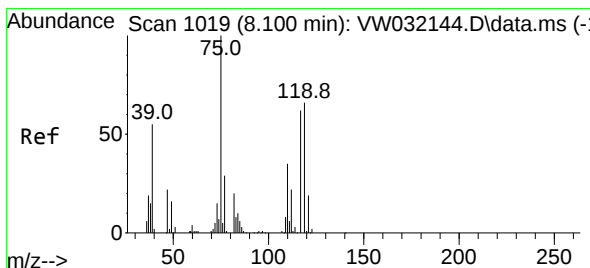
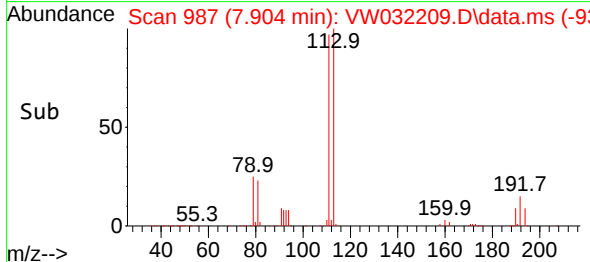
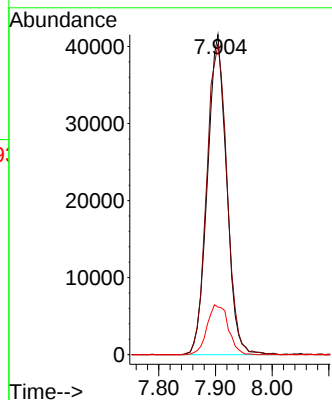
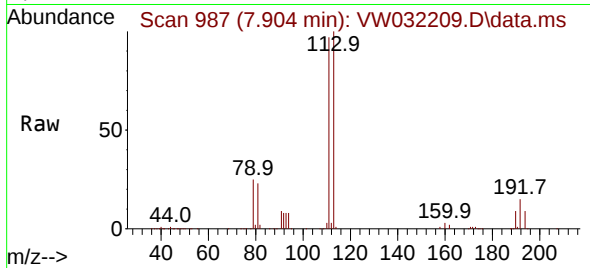




#35
Dibromofluoromethane
Concen: 49.135 ug/l
RT: 7.904 min Scan# 911
Delta R.T. -0.000 min
Lab File: VW032209.D
Acq: 19 Sep 2025 12:02

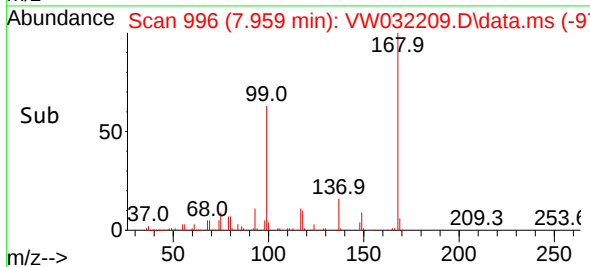
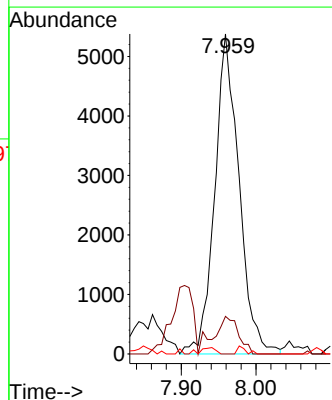
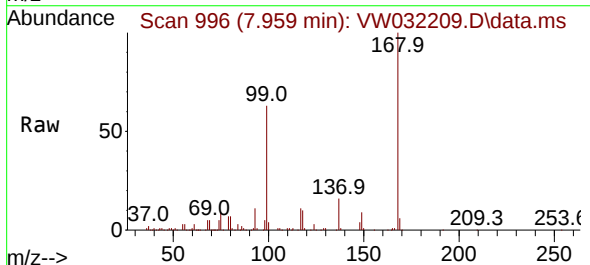
Instrument :
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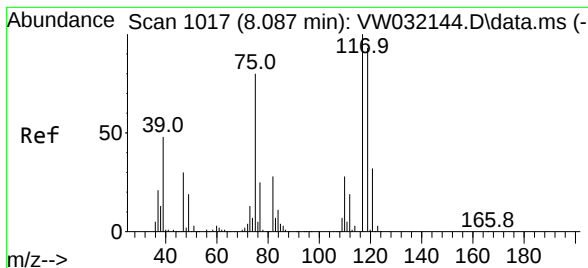
Tgt Ion:113 Resp: 97708
Ion Ratio Lower Upper
113 100
111 102.8 83.9 125.9
192 17.1 14.6 21.8



#36
1,1-Dichloropropene
Concen: 4.704 ug/l
RT: 7.959 min Scan# 996
Delta R.T. -0.140 min
Lab File: VW032209.D
Acq: 19 Sep 2025 12:02

Tgt Ion: 75 Resp: 12129
Ion Ratio Lower Upper
75 100
110 10.2 17.5 52.5#
77 0.8 24.1 36.1#





#38

Carbon Tetrachloride

Concen: 5.302 ug/l

RT: 7.965 min Scan# 91

Delta R.T. -0.122 min

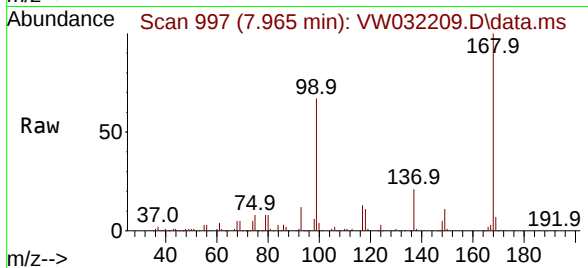
Lab File: VW032209.D

Acq: 19 Sep 2025 12:02

Instrument :

MSVOA_W

ClientSampleId :



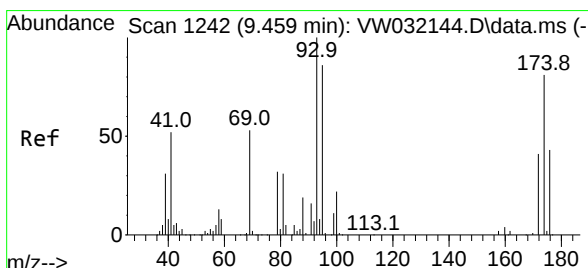
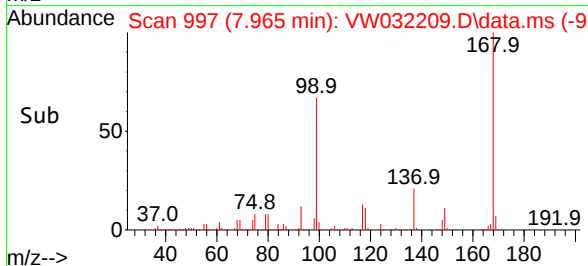
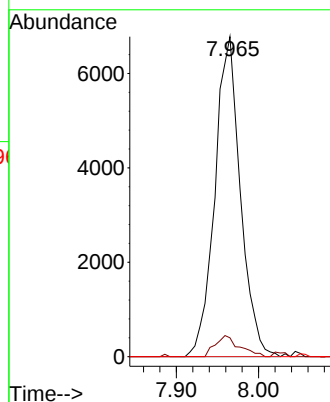
Tgt Ion:117 Resp: 14655

Ion Ratio Lower Upper

117 100

119 5.9 74.2 111.2#

121 0.0 25.6 38.4#



#49

1,4-Dioxane

Concen: 3.439 ug/l

RT: 9.471 min Scan# 1244

Delta R.T. 0.012 min

Lab File: VW032209.D

Acq: 19 Sep 2025 12:02

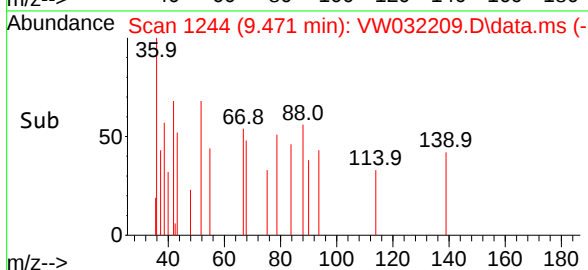
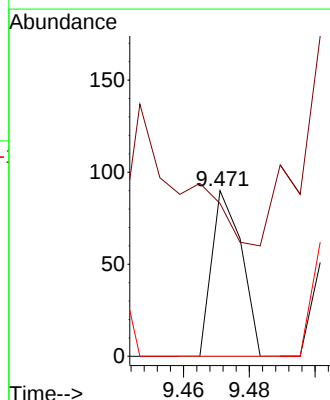
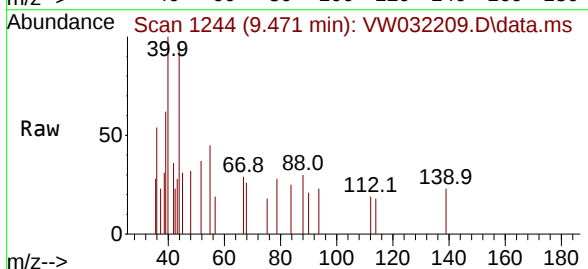
Tgt Ion: 88 Resp: 56

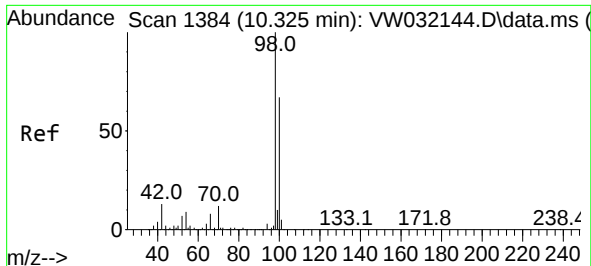
Ion Ratio Lower Upper

88 100

43 0.0 18.0 27.0#

58 0.0 55.4 83.0#

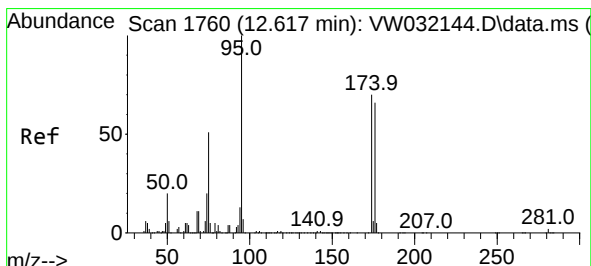
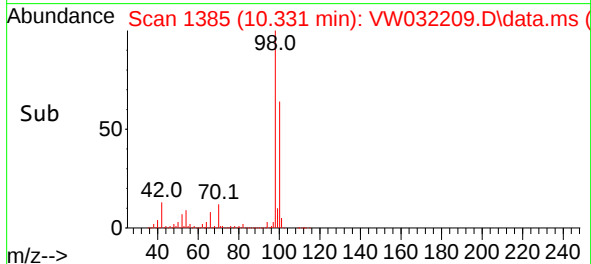
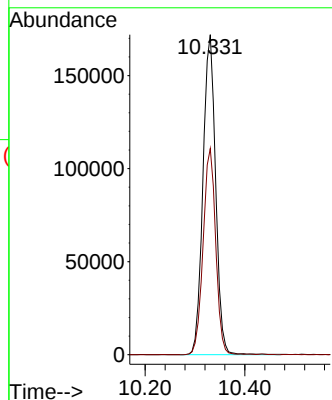
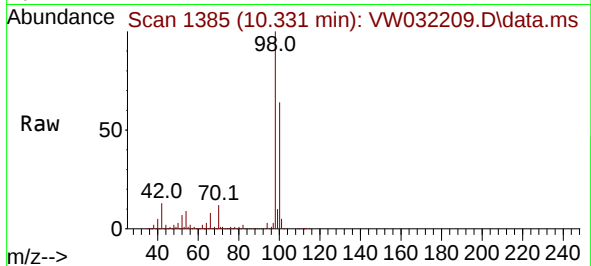




#50
Toluene-d8
Concen: 43.354 ug/l
RT: 10.331 min Scan# 1
Delta R.T. 0.006 min
Lab File: VW032209.D
Acq: 19 Sep 2025 12:02

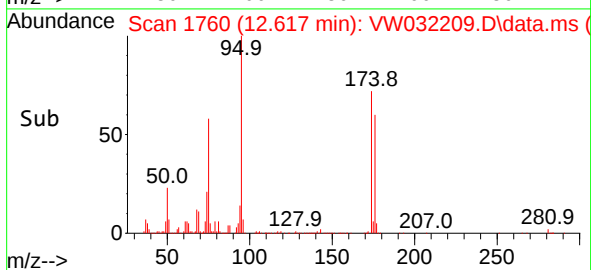
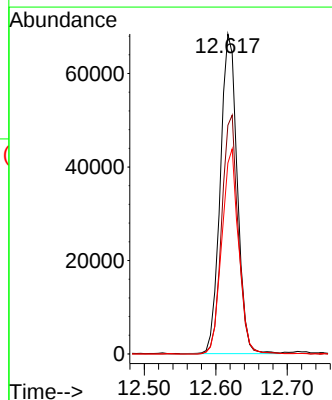
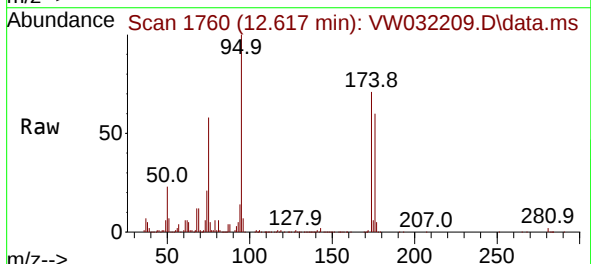
Instrument :
MSVOA_W
ClientSampleId :

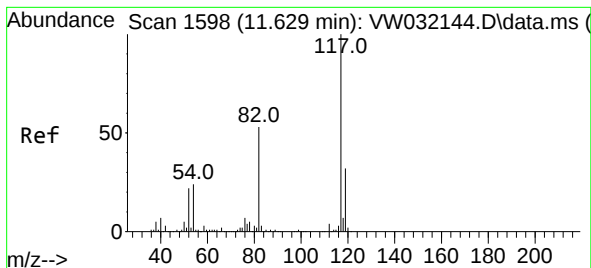
Tgt Ion: 98 Resp: 302646
Ion Ratio Lower Upper
98 100
100 64.0 51.4 77.2



#62
4-Bromofluorobenzene
Concen: 43.617 ug/l
RT: 12.617 min Scan# 1760
Delta R.T. -0.000 min
Lab File: VW032209.D
Acq: 19 Sep 2025 12:02

Tgt Ion: 95 Resp: 112592
Ion Ratio Lower Upper
95 100
174 72.6 0.0 145.6
176 64.0 0.0 140.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.635 min Scan# 11

Delta R.T. 0.006 min

Lab File: VW032209.D

Acq: 19 Sep 2025 12:02

Instrument :

MSVOA_W

ClientSampleId :

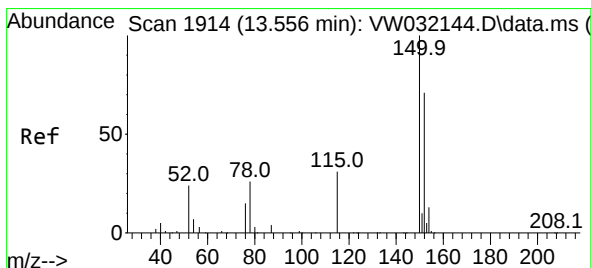
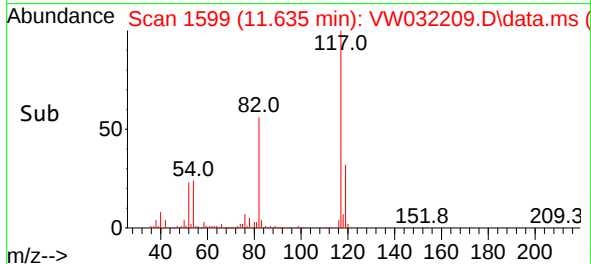
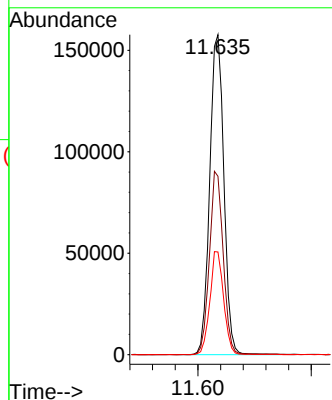
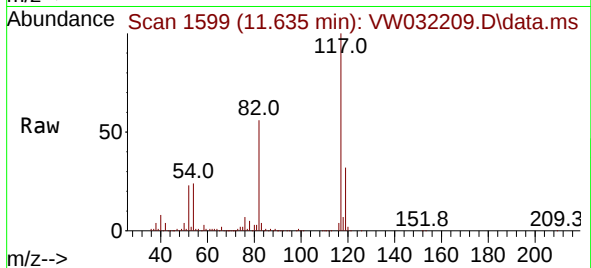
Tgt Ion:117 Resp: 273222

Ion Ratio Lower Upper

117 100

82 55.7 42.7 64.1

119 32.1 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: VW032209.D

Acq: 19 Sep 2025 12:02

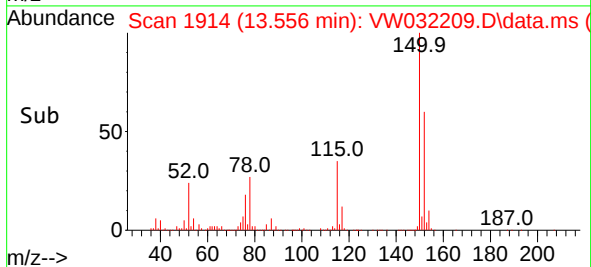
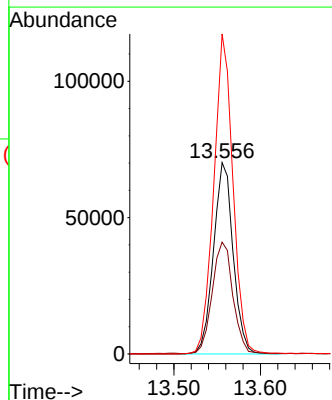
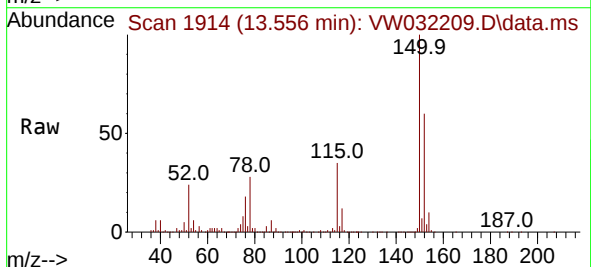
Tgt Ion:152 Resp: 110786

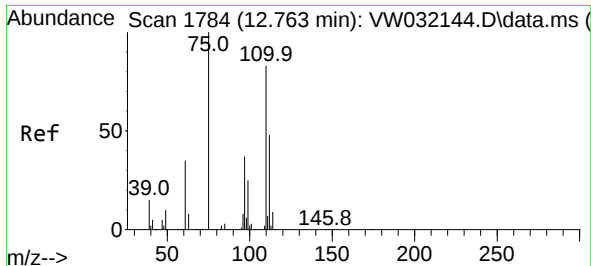
Ion Ratio Lower Upper

152 100

115 61.0 31.8 95.4

150 163.5 0.0 343.0

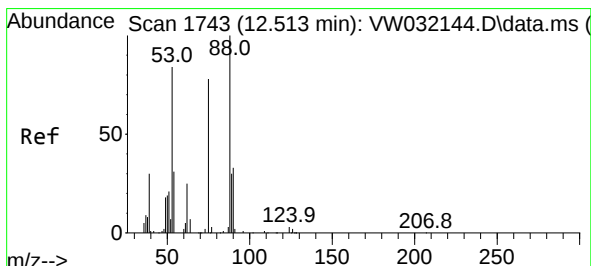
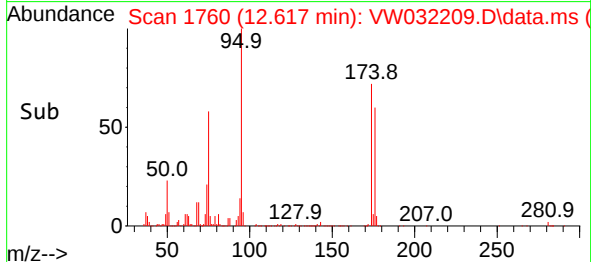
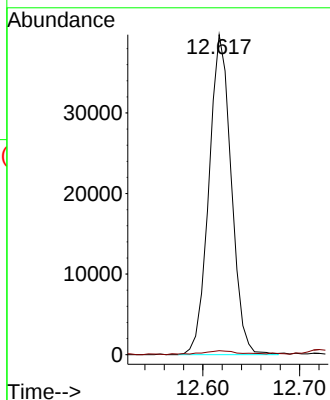
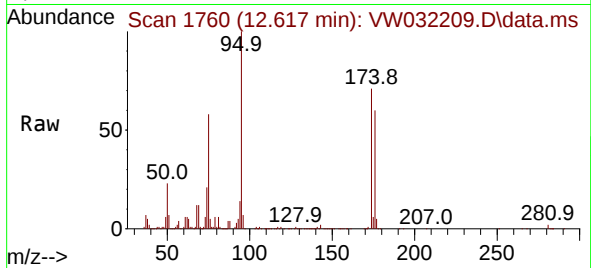




#76
1,2,3-Trichloropropane
Concen: 45.920 ug/l
RT: 12.617 min Scan# 1760
Delta R.T. -0.146 min
Lab File: VW032209.D
Acq: 19 Sep 2025 12:02

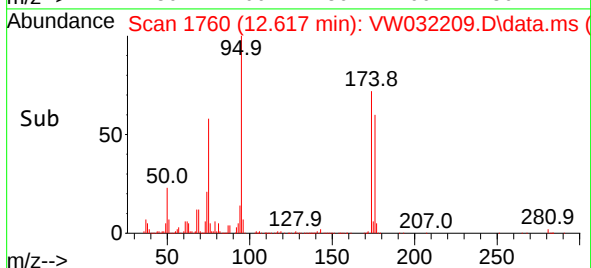
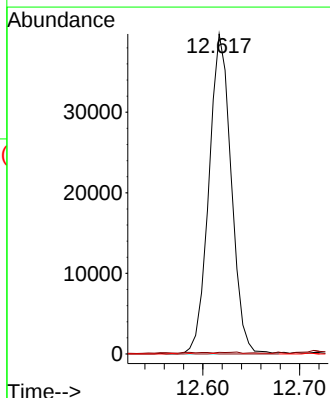
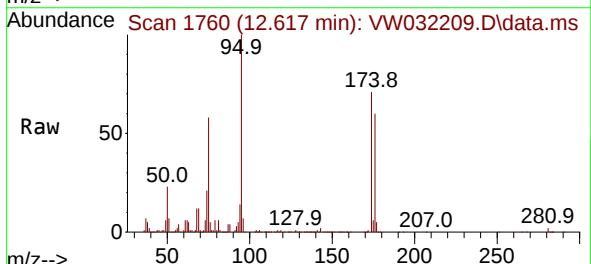
Instrument :
MSVOA_W
ClientSampleId :

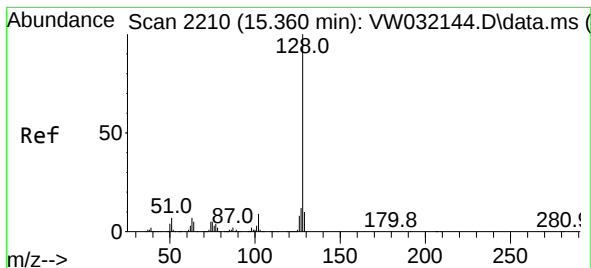
Tgt Ion: 75 Resp: 63733
Ion Ratio Lower Upper
75 100
77 2.2 141.7 425.1#



#81
trans-1,4-Dichloro-2-butene
Concen: 123.637 ug/l
RT: 12.617 min Scan# 1760
Delta R.T. 0.103 min
Lab File: VW032209.D
Acq: 19 Sep 2025 12:02

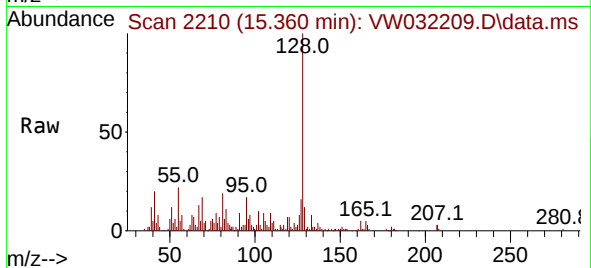
Tgt Ion: 75 Resp: 63733
Ion Ratio Lower Upper
75 100
53 0.0 91.0 136.6#
89 0.0 39.4 59.2#



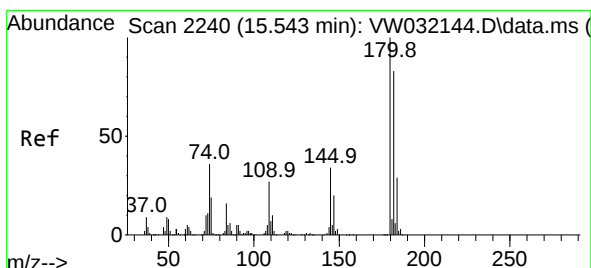
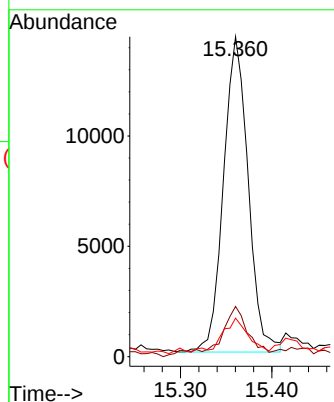
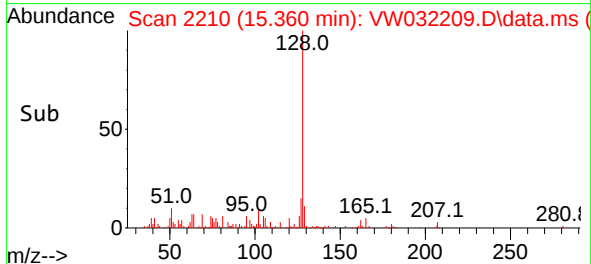


#95
Naphthalene
Concen: 5.416 ug/l
RT: 15.360 min Scan# 21
Delta R.T. -0.000 min
Lab File: VW032209.D
Acq: 19 Sep 2025 12:02

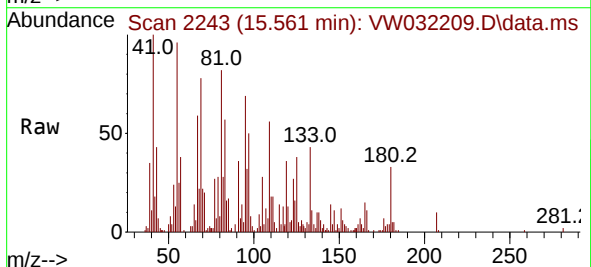
Instrument :
MSVOA_W
ClientSampleId :



Tgt Ion:128 Resp: 26795
Ion Ratio Lower Upper
128 100
127 13.7 10.6 16.0
129 11.8 8.4 12.6



#96
1,2,3-Trichlorobenzene
Concen: 1.186 ug/l
RT: 15.561 min Scan# 2243
Delta R.T. 0.018 min
Lab File: VW032209.D
Acq: 19 Sep 2025 12:02



Tgt Ion:180 Resp: 2412
Ion Ratio Lower Upper
180 100
182 0.0 47.7 143.1#
145 0.0 17.2 51.6#

