

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111825\
 Data File : VW032476.D
 Acq On : 18 Nov 2025 13:18
 Operator : SY/MD
 Sample : Q3638-01
 Misc : 3.00g/5mL/MSVOA_W/SOIL/A
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 MOO-25-0327

Quant Time: Nov 19 00:26:52 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.M
 Quant Title : SW846 8260
 QLast Update : Tue Nov 11 03:48:21 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.959	168	217499	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.855	114	524737	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.629	117	560958	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.556	152	282583	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.319	65	162272	57.870	ug/l	0.00
Spiked Amount 50.000	Range 63 - 155		Recovery = 115.740%			
35) Dibromofluoromethane	7.898	113	150774	47.991	ug/l	0.00
Spiked Amount 50.000	Range 70 - 134		Recovery = 95.980%			
50) Toluene-d8	10.325	98	528531	43.852	ug/l	0.00
Spiked Amount 50.000	Range 74 - 123		Recovery = 87.700%			
62) 4-Bromofluorobenzene	12.617	95	236603	51.966	ug/l	0.00
Spiked Amount 50.000	Range 17 - 146		Recovery = 103.940%			
Target Compounds						Qvalue
11) Tert butyl alcohol	5.167	59	3617	14.917	ug/l #	85
16) Acetone	4.167	43	15949	19.012	ug/l	100
18) Methyl Acetate	4.722	43	10667	5.135	ug/l #	82
20) Methylene Chloride	4.960	84	16025	5.341	ug/l	96
25) 2-Butanone	7.173	43	10457	8.461	ug/l #	72
26) 2,2-Dichloropropane	7.167	77	13218	4.729	ug/l #	51
31) Cyclohexane	7.953	56	5387	1.161	ug/l #	1
36) 1,1-Dichloropropene	7.959	75	19971	4.314	ug/l #	49
37) Ethyl Acetate	7.173	43	10457	3.038	ug/l #	1
38) Carbon Tetrachloride	7.959	117	23758	5.776	ug/l #	16
49) 1,4-Dioxane	9.496	88	202	6.648	ug/l #	73
76) 1,2,3-Trichloropropane	12.617	75	118271	30.524	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.617	75	118271	69.914	ug/l #	11

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

Quant Time: Nov 19 00:26:52 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.M
Quant Title : SW846 8260
QLast Update : Tue Nov 11 03:48:21 2025
Response via : Initial Calibration

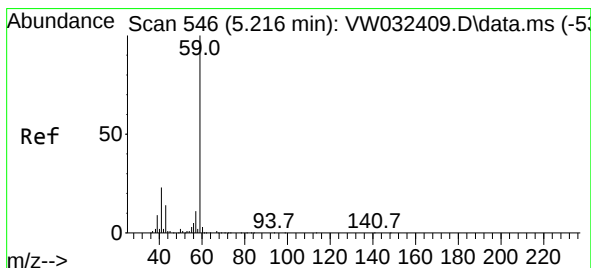
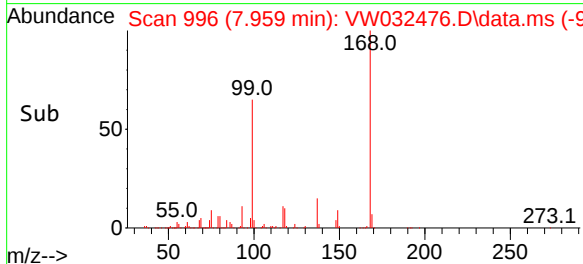
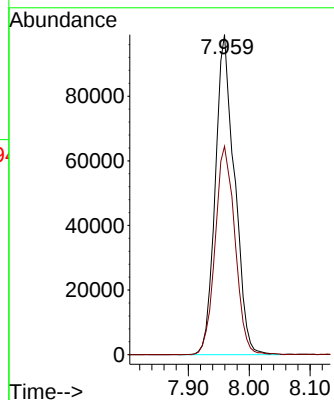
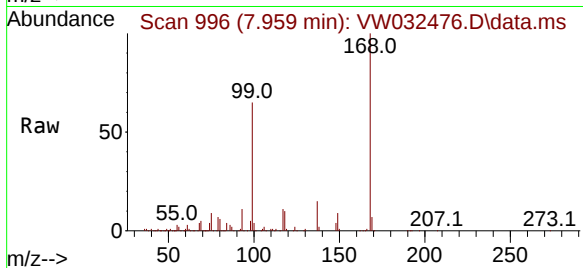




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.959 min Scan# 997
Delta R.T. -0.006 min
Lab File: VW032476.D
Acq: 18 Nov 2025 13:18

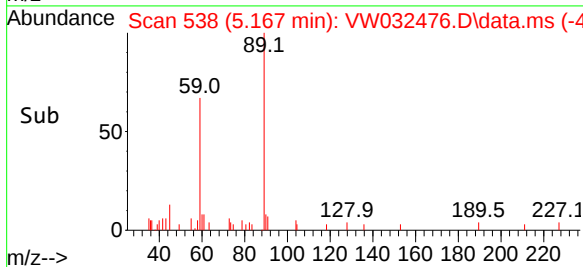
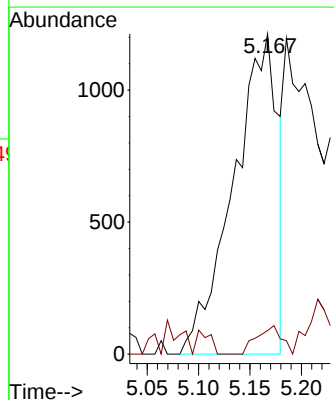
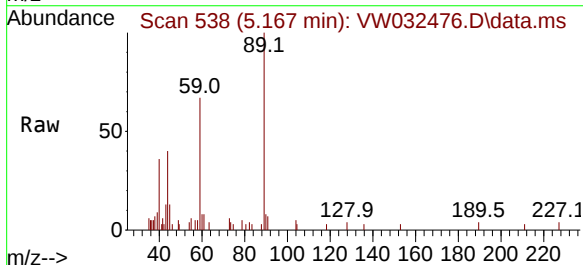
Instrument :
MSVOA_W
ClientSampleId :
MOO-25-0327

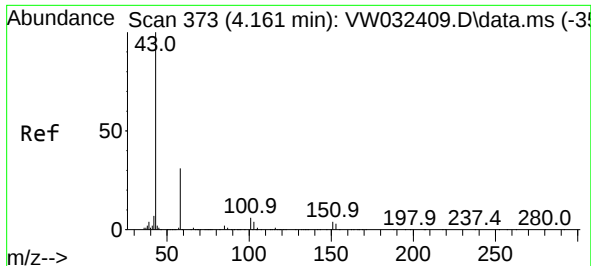
Tgt Ion:168 Resp: 217499
Ion Ratio Lower Upper
168 100
99 65.1 45.4 68.2



#11
Tert butyl alcohol
Concen: 14.917 ug/l
RT: 5.167 min Scan# 538
Delta R.T. -0.049 min
Lab File: VW032476.D
Acq: 18 Nov 2025 13:18

Tgt Ion: 59 Resp: 3617
Ion Ratio Lower Upper
59 100
57 4.9 8.6 12.8#

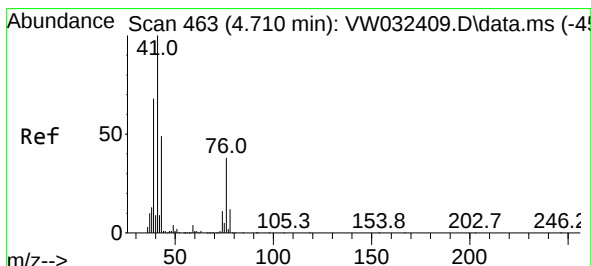
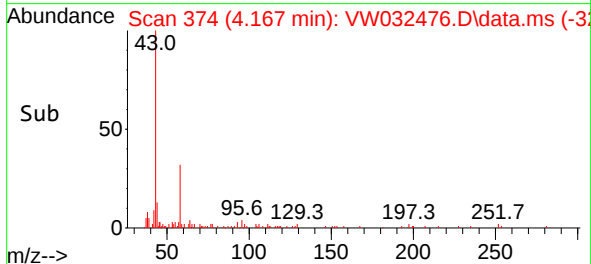
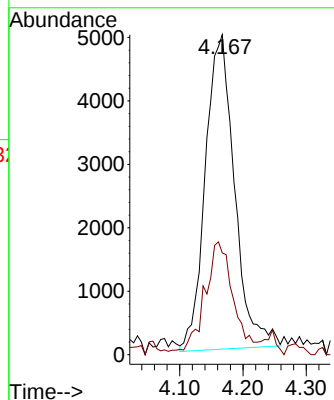
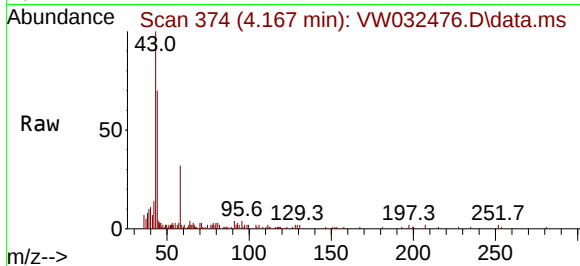




#16
Acetone
Concen: 19.012 ug/l
RT: 4.167 min Scan# 31
Delta R.T. 0.006 min
Lab File: VW032476.D
Acq: 18 Nov 2025 13:18

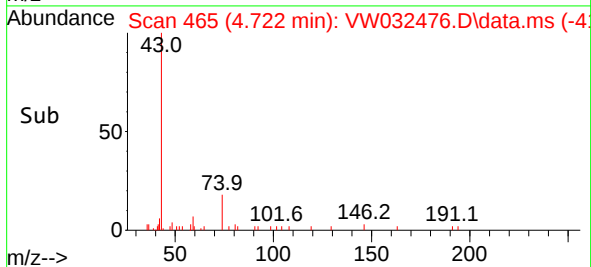
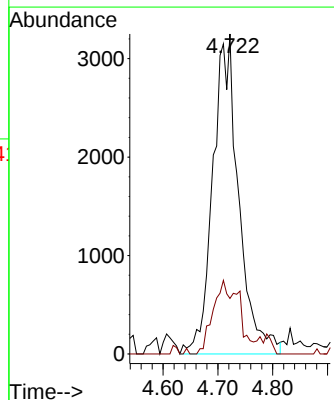
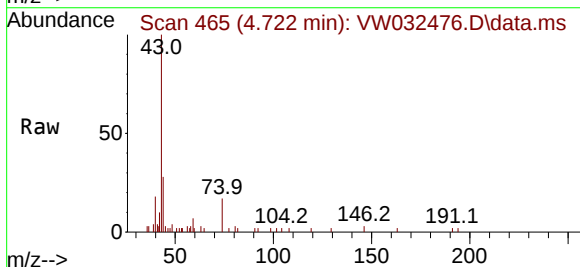
Instrument :
MSVOA_W
ClientSampleId :
MOO-25-0327

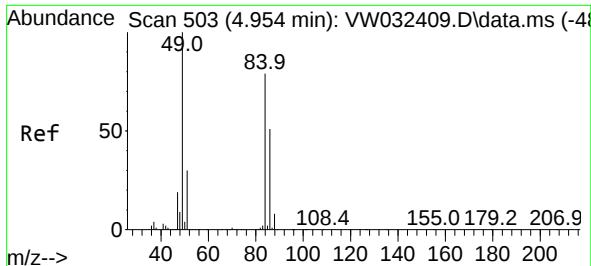
Tgt Ion: 43 Resp: 15949
Ion Ratio Lower Upper
43 100
58 31.0 24.8 37.2



#18
Methyl Acetate
Concen: 5.135 ug/l
RT: 4.722 min Scan# 465
Delta R.T. 0.012 min
Lab File: VW032476.D
Acq: 18 Nov 2025 13:18

Tgt Ion: 43 Resp: 10667
Ion Ratio Lower Upper
43 100
74 14.6 18.9 28.3#

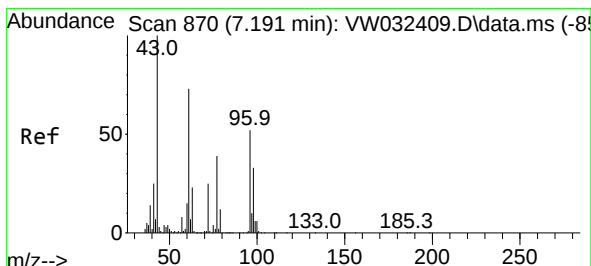
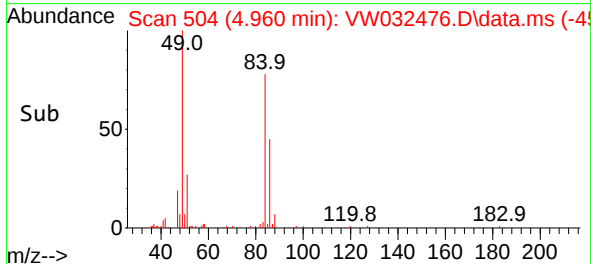
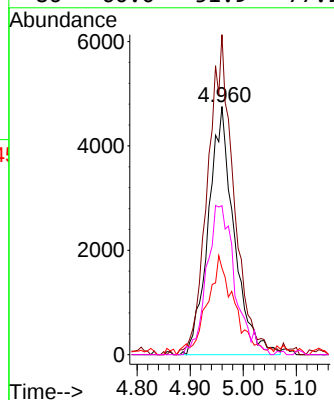
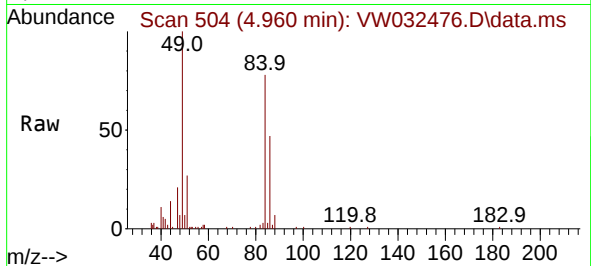




#20
Methylene Chloride
Concen: 5.341 ug/l
RT: 4.960 min Scan# 503
Delta R.T. 0.006 min
Lab File: VW032476.D
Acq: 18 Nov 2025 13:18

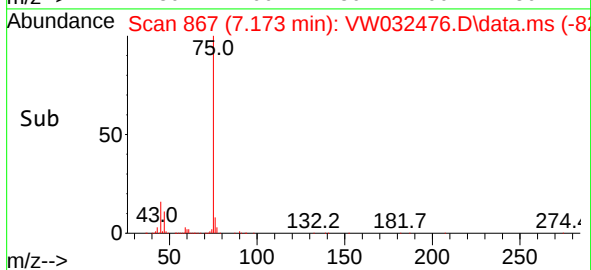
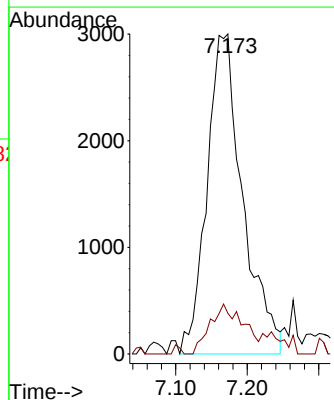
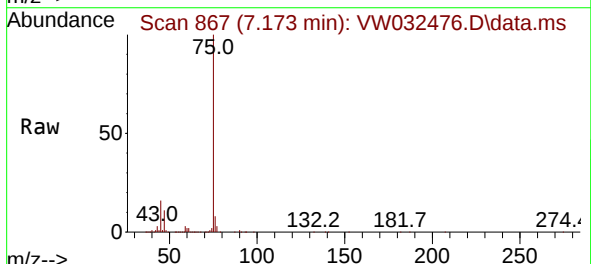
Instrument :
MSVOA_W
ClientSampleId :
MOO-25-0327

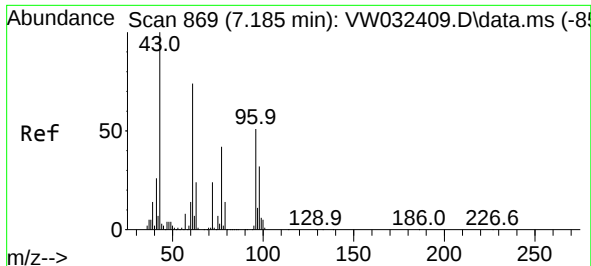
Tgt Ion:	84	Resp:	16025
Ion	Ratio	Lower	Upper
84	100		
49	127.8	101.5	152.3
51	32.8	30.6	46.0
86	60.0	51.9	77.9



#25
2-Butanone
Concen: 8.461 ug/l
RT: 7.173 min Scan# 867
Delta R.T. -0.018 min
Lab File: VW032476.D
Acq: 18 Nov 2025 13:18

Tgt Ion:	43	Resp:	10457
Ion	Ratio	Lower	Upper
43	100		
72	10.9	20.0	30.0

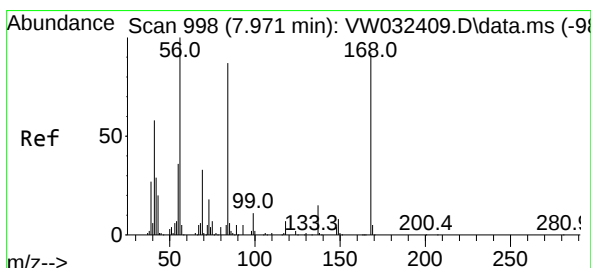
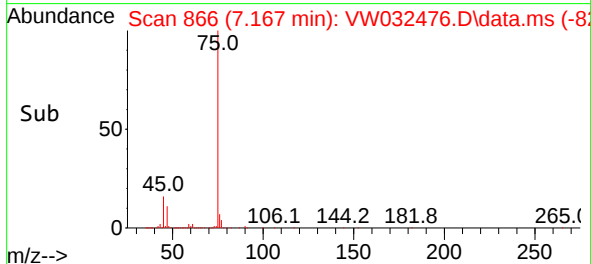
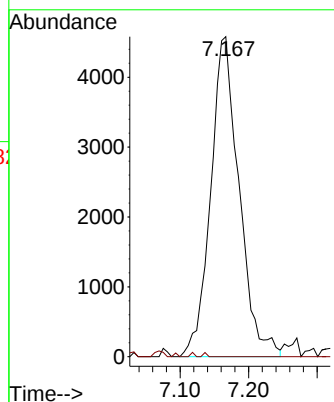
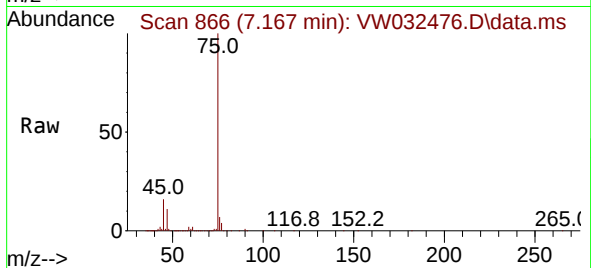




#26
2,2-Dichloropropane
Concen: 4.729 ug/l
RT: 7.167 min Scan# 866
Delta R.T. -0.018 min
Lab File: VW032476.D
Acq: 18 Nov 2025 13:18

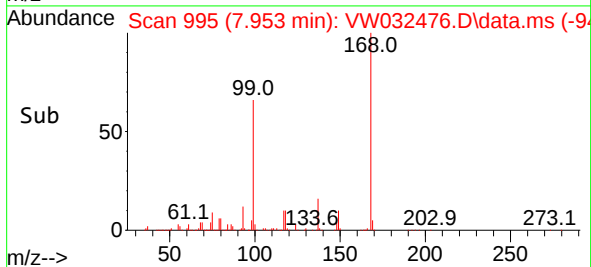
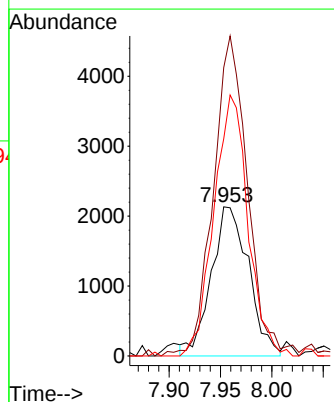
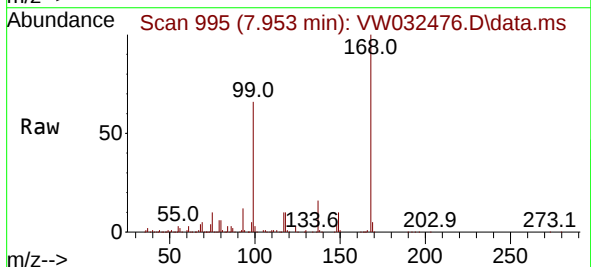
Instrument :
MSVOA_W
ClientSampleId :
MOO-25-0327

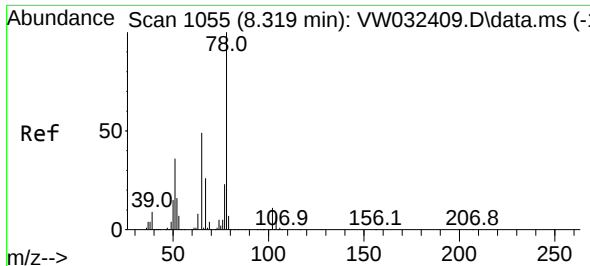
Tgt Ion: 77 Resp: 13218
Ion Ratio Lower Upper
77 100
97 0.0 12.3 36.8#



#31
Cyclohexane
Concen: 1.161 ug/l
RT: 7.953 min Scan# 995
Delta R.T. -0.018 min
Lab File: VW032476.D
Acq: 18 Nov 2025 13:18

Tgt Ion: 56 Resp: 5387
Ion Ratio Lower Upper
56 100
69 196.0 26.5 39.7#
84 150.5 69.6 104.4#

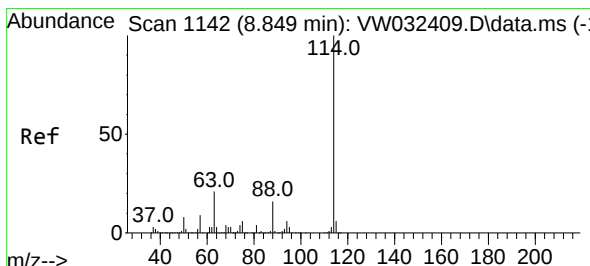
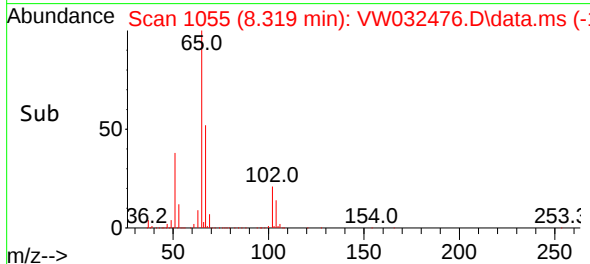
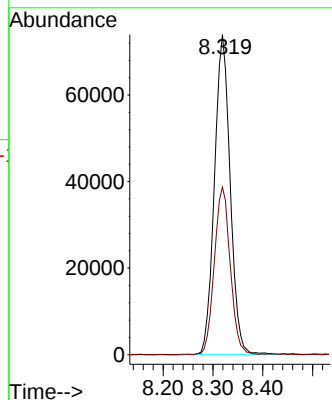
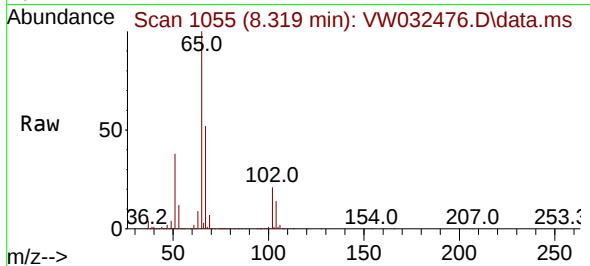




#33
 1,2-Dichloroethane-d4
 Concen: 57.870 ug/l
 RT: 8.319 min Scan# 1055
 Delta R.T. 0.000 min
 Lab File: VW032476.D
 Acq: 18 Nov 2025 13:18

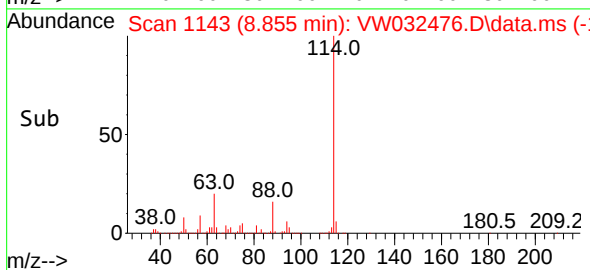
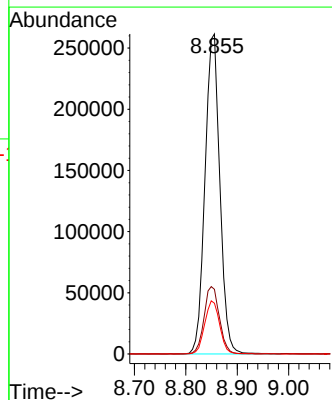
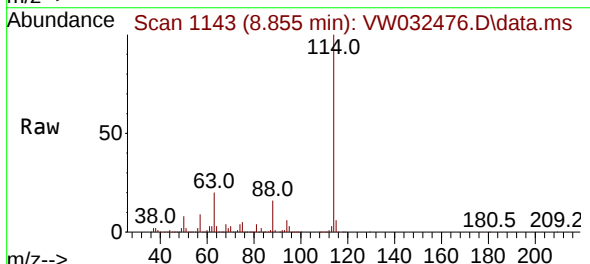
Instrument :
 MSVOA_W
 ClientSampleId :
 MOO-25-0327

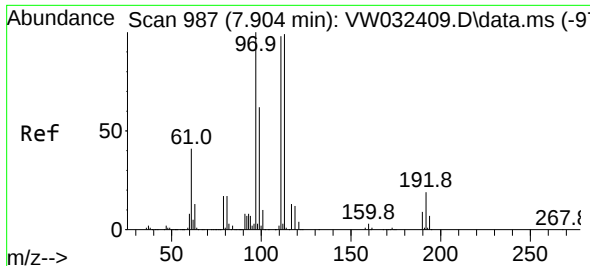
Tgt Ion: 65 Resp: 162272
 Ion Ratio Lower Upper
 65 100
 67 52.9 0.0 106.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.855 min Scan# 1143
 Delta R.T. 0.006 min
 Lab File: VW032476.D
 Acq: 18 Nov 2025 13:18

Tgt Ion: 114 Resp: 524737
 Ion Ratio Lower Upper
 114 100
 63 20.2 0.0 41.8
 88 15.9 0.0 32.6

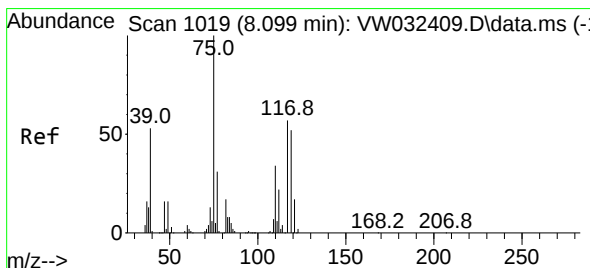
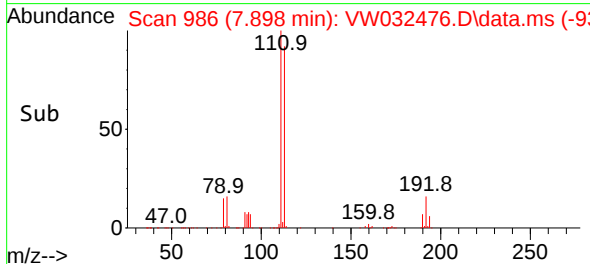
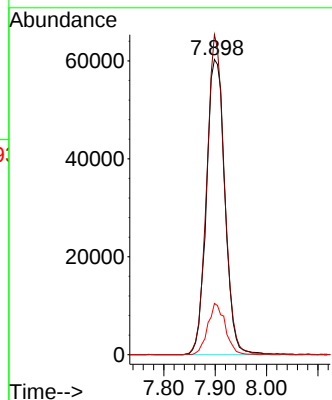
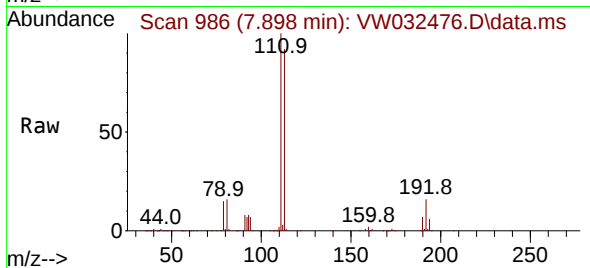




#35
 Dibromofluoromethane
 Concen: 47.991 ug/l
 RT: 7.898 min Scan# 911
 Delta R.T. -0.006 min
 Lab File: VW032476.D
 Acq: 18 Nov 2025 13:18

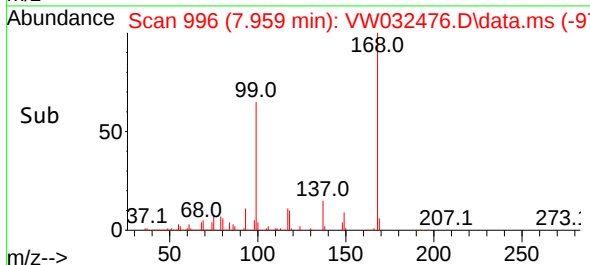
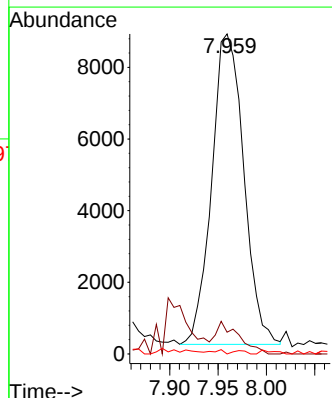
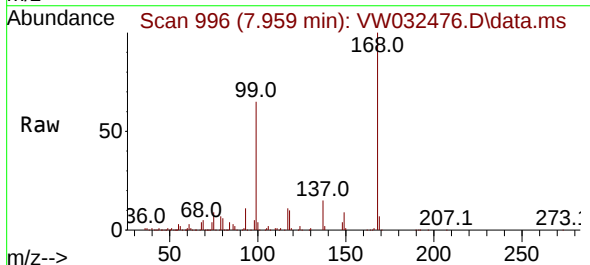
Instrument :
 MSVOA_W
 ClientSampleId :
 MOO-25-0327

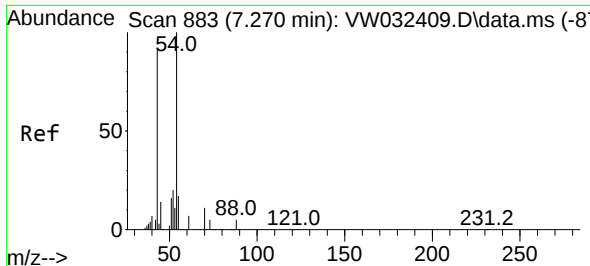
Tgt Ion:113 Resp: 150774
 Ion Ratio Lower Upper
 113 100
 111 103.2 83.1 124.7
 192 16.4 13.4 20.2



#36
 1,1-Dichloropropene
 Concen: 4.314 ug/l
 RT: 7.959 min Scan# 996
 Delta R.T. -0.140 min
 Lab File: VW032476.D
 Acq: 18 Nov 2025 13:18

Tgt Ion: 75 Resp: 19971
 Ion Ratio Lower Upper
 75 100
 110 7.5 17.2 51.5#
 77 0.5 24.5 36.7#

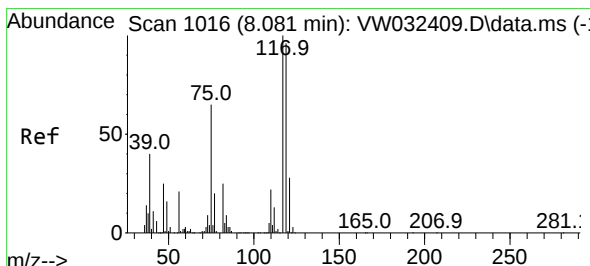
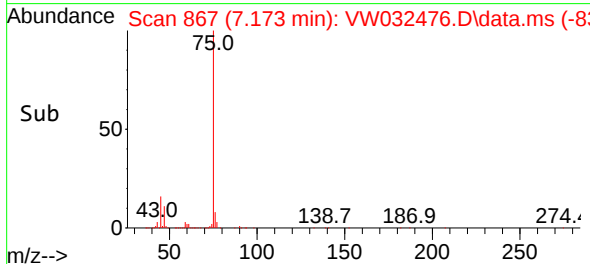
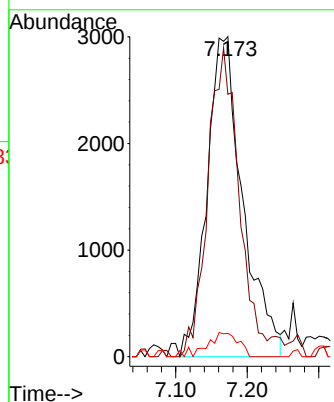
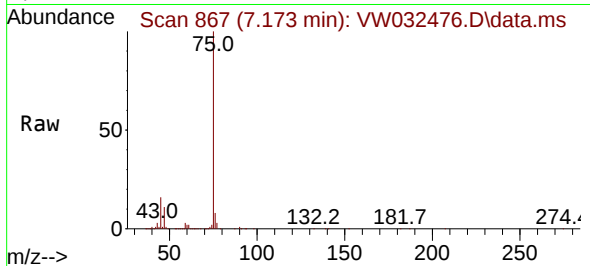




#37
Ethyl Acetate
Concen: 3.038 ug/l
RT: 7.173 min Scan# 81
Delta R.T. -0.097 min
Lab File: VW032476.D
Acq: 18 Nov 2025 13:18

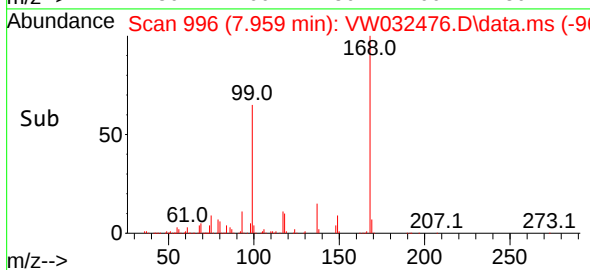
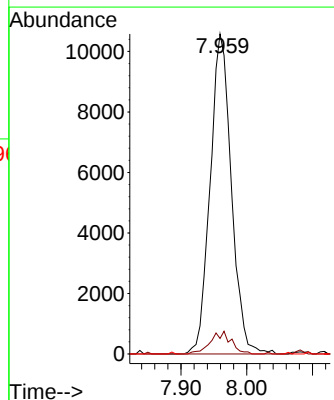
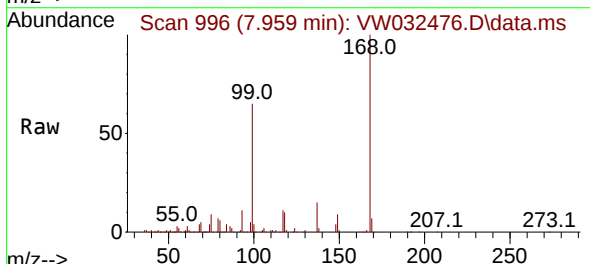
Instrument :
MSVOA_W
ClientSampleId :
MOO-25-0327

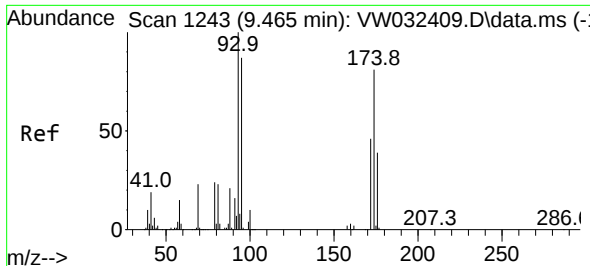
Tgt Ion: 43 Resp: 10457
Ion Ratio Lower Upper
43 100
61 83.4 11.0 16.6#
70 6.1 8.3 12.5#



#38
Carbon Tetrachloride
Concen: 5.776 ug/l
RT: 7.959 min Scan# 996
Delta R.T. -0.122 min
Lab File: VW032476.D
Acq: 18 Nov 2025 13:18

Tgt Ion: 117 Resp: 23758
Ion Ratio Lower Upper
117 100
119 4.9 77.0 115.4#
121 0.0 22.0 33.0#

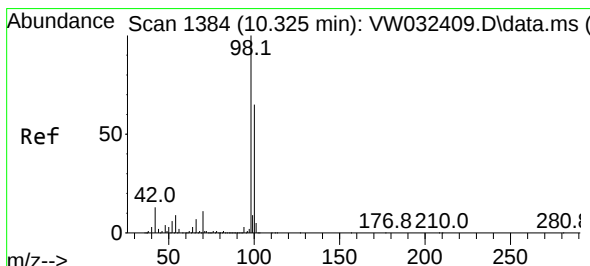
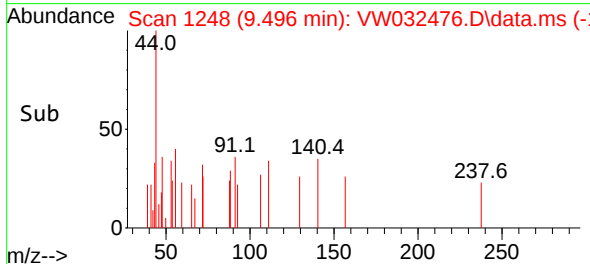
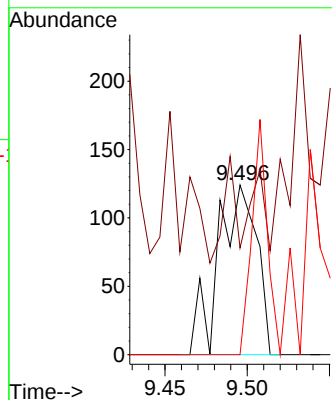
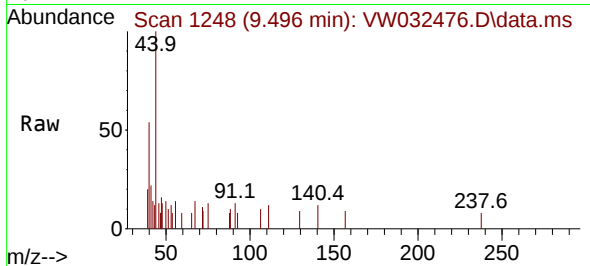




#49
1,4-Dioxane
Concen: 6.648 ug/l
RT: 9.496 min Scan# 11
Delta R.T. 0.031 min
Lab File: VW032476.D
Acq: 18 Nov 2025 13:18

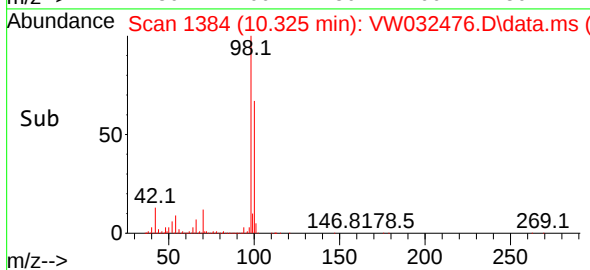
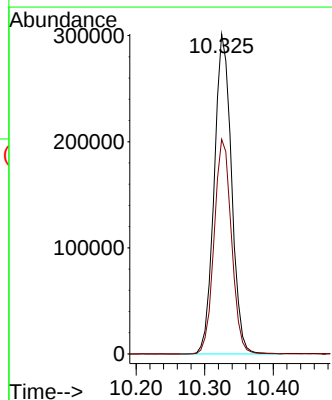
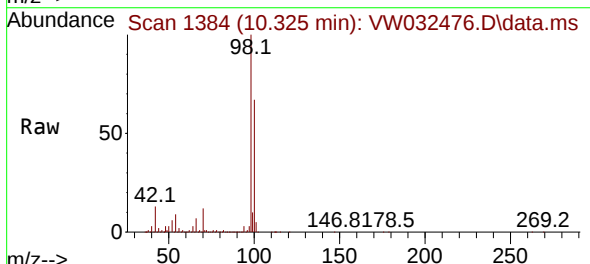
Instrument :
MSVOA_W
ClientSampleId :
MOO-25-0327

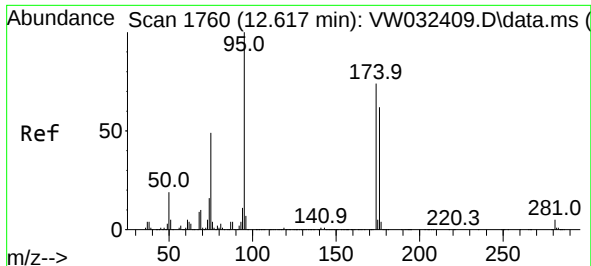
Tgt Ion: 88 Resp: 202
Ion Ratio Lower Upper
88 100
43 46.5 0.0 0.0#
58 55.0 63.0 94.4#



#50
Toluene-d8
Concen: 43.852 ug/l
RT: 10.325 min Scan# 1384
Delta R.T. 0.000 min
Lab File: VW032476.D
Acq: 18 Nov 2025 13:18

Tgt Ion: 98 Resp: 528531
Ion Ratio Lower Upper
98 100
100 67.2 53.3 79.9

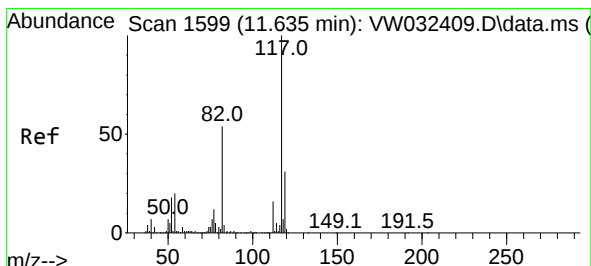
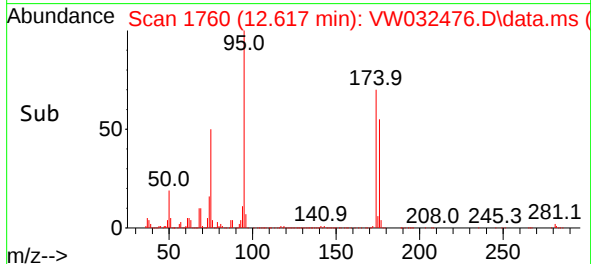
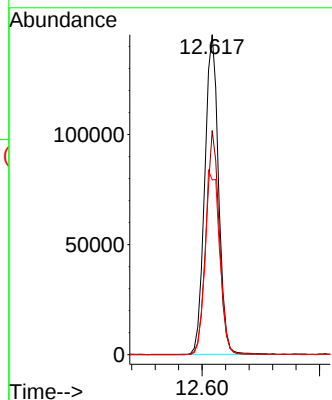
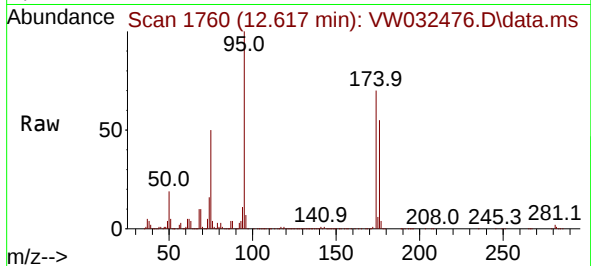




#62
4-Bromofluorobenzene
Concen: 51.966 ug/l
RT: 12.617 min Scan# 1760
Delta R.T. 0.000 min
Lab File: VW032476.D
Acq: 18 Nov 2025 13:18

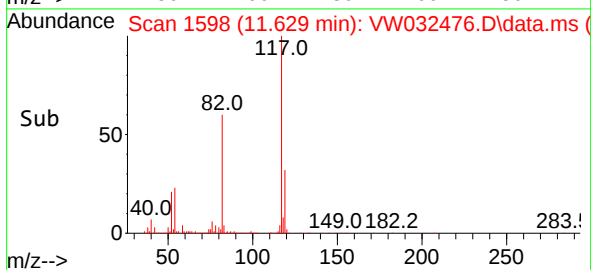
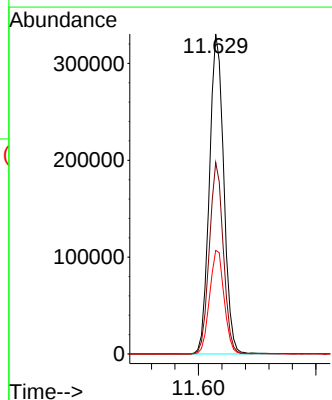
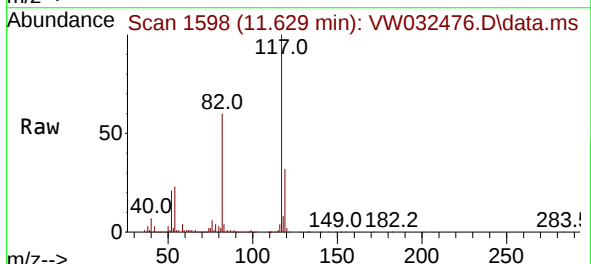
Instrument :
MSVOA_W
ClientSampleId :
MOO-25-0327

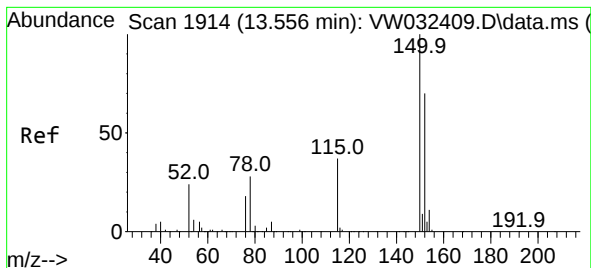
Tgt Ion: 95 Resp: 236603
Ion Ratio Lower Upper
95 100
174 67.0 0.0 135.4
176 61.9 0.0 131.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.629 min Scan# 1598
Delta R.T. -0.006 min
Lab File: VW032476.D
Acq: 18 Nov 2025 13:18

Tgt Ion: 117 Resp: 560958
Ion Ratio Lower Upper
117 100
82 59.8 43.0 64.4
119 32.3 25.0 37.6

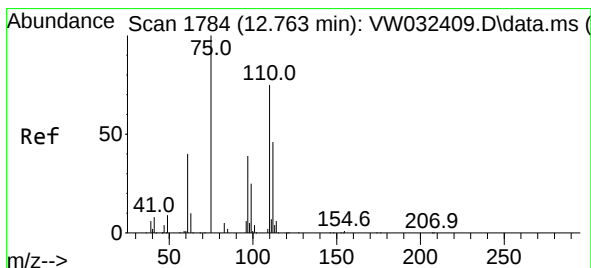
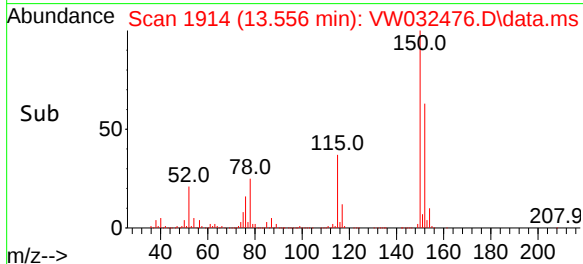
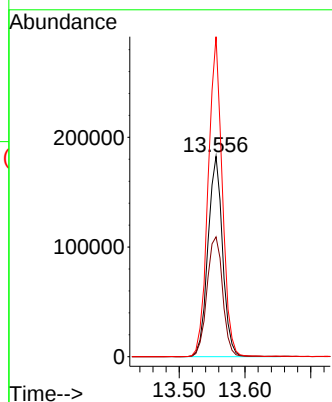
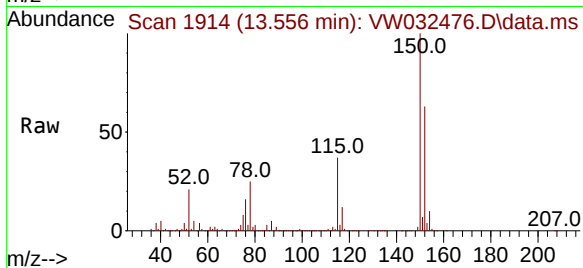




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.556 min Scan# 1914
Delta R.T. 0.000 min
Lab File: VW032476.D
Acq: 18 Nov 2025 13:18

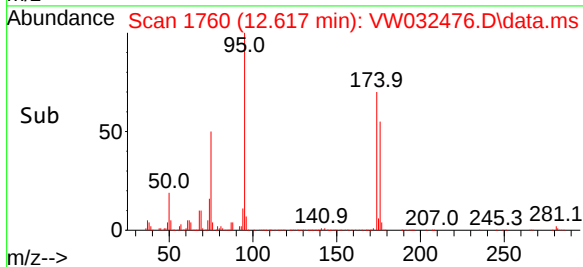
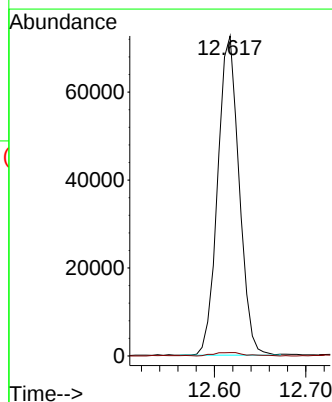
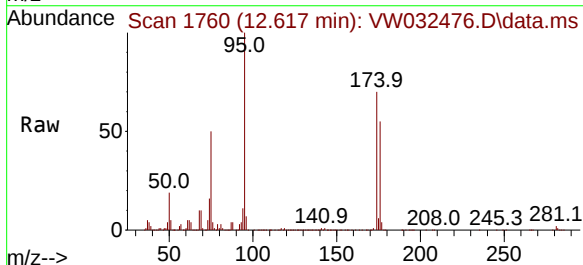
Instrument :
MSVOA_W
ClientSampleId :
MOO-25-0327

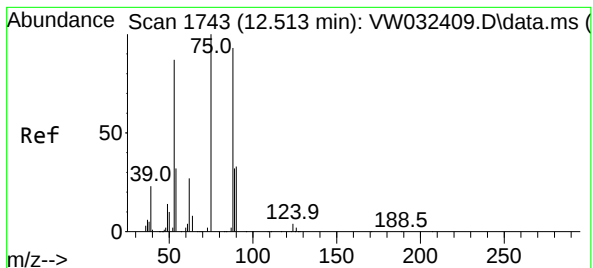
Tgt Ion:152 Resp: 282583
Ion Ratio Lower Upper
152 100
115 64.1 32.8 98.3
150 154.2 0.0 356.6



#76
1,2,3-Trichloropropane
Concen: 30.524 ug/l
RT: 12.617 min Scan# 1760
Delta R.T. -0.146 min
Lab File: VW032476.D
Acq: 18 Nov 2025 13:18

Tgt Ion: 75 Resp: 118271
Ion Ratio Lower Upper
75 100
77 1.7 151.6 454.8#





#81
 trans-1,4-Dichloro-2-butene
 Concen: 69.914 ug/l
 RT: 12.617 min Scan# 11
 Delta R.T. 0.104 min
 Lab File: VW032476.D
 Acq: 18 Nov 2025 13:18

Instrument :
 MSVOA_W
 ClientSampleId :
 MOO-25-0327

Tgt Ion: 75 Resp: 118271
 Ion Ratio Lower Upper
 75 100
 53 0.3 77.8 116.8#
 89 0.0 35.6 53.4#

