

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111725\
 Data File : VW032460.D
 Acq On : 17 Nov 2025 16:01
 Operator : SY/MD
 Sample : Q3645-01
 Misc : 6.84g/5mL/MSVOA_W/SOIL/A
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 HD-02-11142025

Quant Time: Nov 18 03:06:08 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)

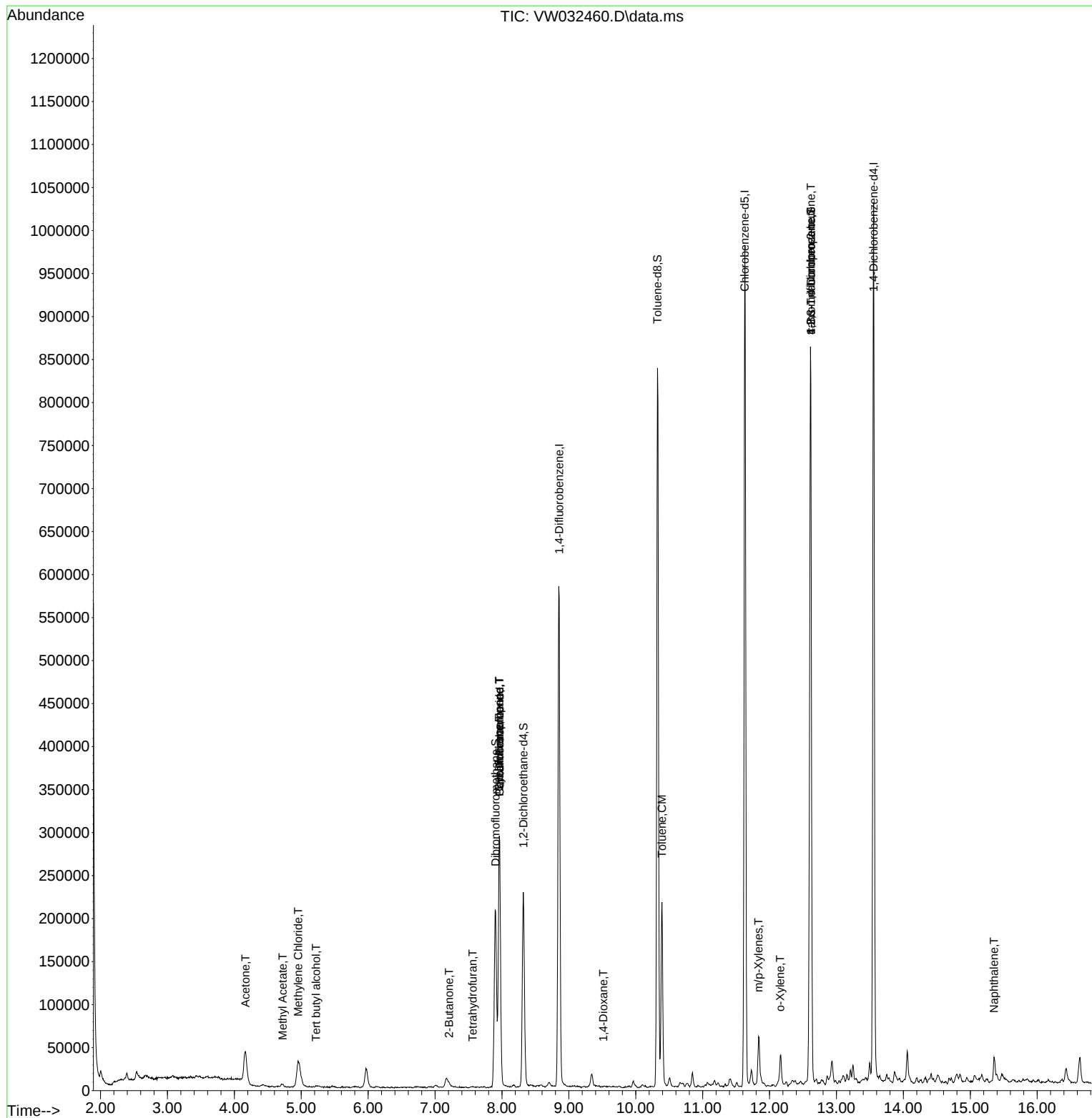
Internal Standards						
1) Pentafluorobenzene	7.965	168	208026	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.856	114	487908	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.629	117	532415	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.556	152	259060	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.319	65	174134	64.928	ug/l	0.00
Spiked Amount 50.000	Range 63 - 155		Recovery = 129.860%			
35) Dibromofluoromethane	7.904	113	158636	54.305	ug/l	0.00
Spiked Amount 50.000	Range 70 - 134		Recovery = 108.600%			
50) Toluene-d8	10.325	98	563865	50.315	ug/l	0.00
Spiked Amount 50.000	Range 74 - 123		Recovery = 100.620%			
62) 4-Bromofluorobenzene	12.617	95	242072	57.180	ug/l	0.00
Spiked Amount 50.000	Range 17 - 146		Recovery = 114.360%			
Target Compounds					Qvalue	
11) Tert butyl alcohol	5.222	59	1941	8.370	ug/l #	88
16) Acetone	4.167	43	64358	80.209	ug/l	99
18) Methyl Acetate	4.722	43	6405	3.224	ug/l #	88
20) Methylene Chloride	4.954	84	26941	9.389	ug/l	95
25) 2-Butanone	7.210	43	7107	6.012	ug/l	98
29) Tetrahydrofuran	7.563	42	861	1.148	ug/l #	53
31) Cyclohexane	7.959	56	7819	1.762	ug/l #	16
36) 1,1-Dichloropropene	7.959	75	18728	4.351	ug/l #	51
38) Carbon Tetrachloride	7.965	117	22627	5.916	ug/l #	16
49) 1,4-Dioxane	9.514	88	78	2.761	ug/l #	10
52) Toluene	10.392	92	91666	10.707	ug/l	99
68) m/p-Xylenes	11.837	106	14410	1.933	ug/l	92
69) o-Xylene	12.160	106	9846	1.379	ug/l	91
76) 1,2,3-Trichloropropane	12.617	75	124503	35.050	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.617	75	124503	80.280	ug/l #	12
95) Naphthalene	15.354	128	26130	2.100	ug/l	96

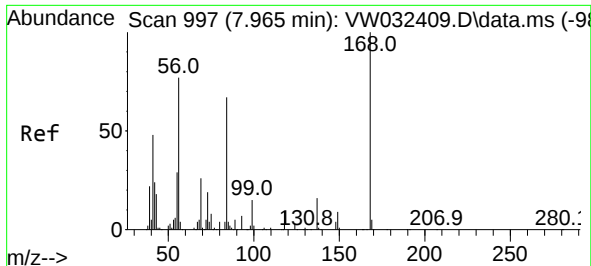
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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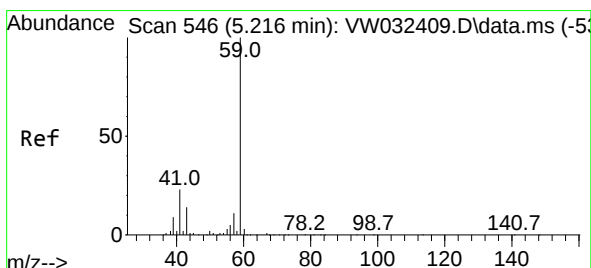
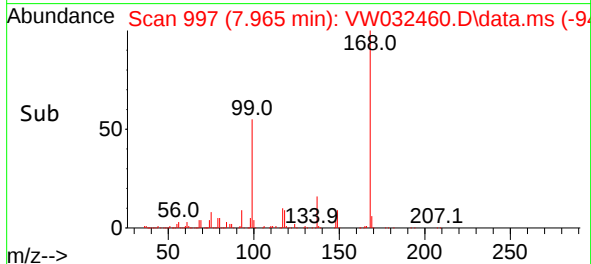
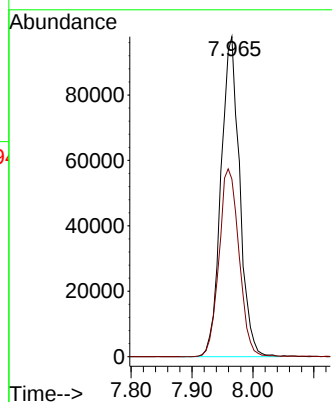
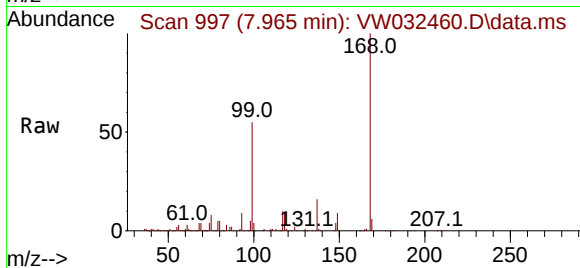




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.965 min Scan# 997
Delta R.T. 0.000 min
Lab File: VW032460.D
Acq: 17 Nov 2025 16:01

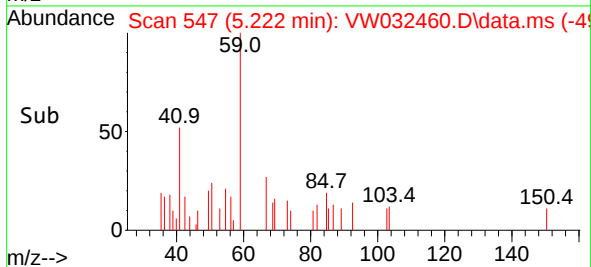
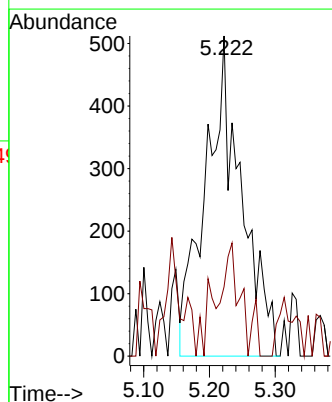
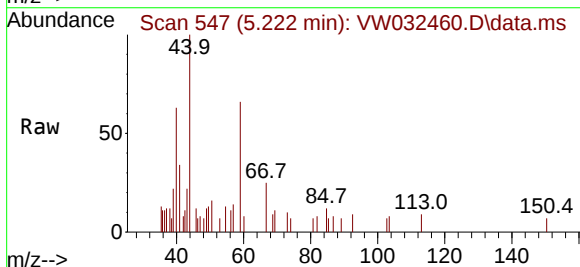
Instrument :
MSVOA_W
ClientSampleId :
HD-02-11142025

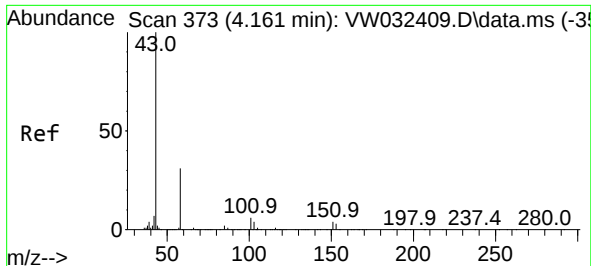
Tgt Ion:168 Resp: 208026
Ion Ratio Lower Upper
168 100
99 55.5 45.4 68.2



#11
Tert butyl alcohol
Concen: 8.370 ug/l
RT: 5.222 min Scan# 547
Delta R.T. 0.006 min
Lab File: VW032460.D
Acq: 17 Nov 2025 16:01

Tgt Ion: 59 Resp: 1941
Ion Ratio Lower Upper
59 100
57 15.4 8.6 12.8#

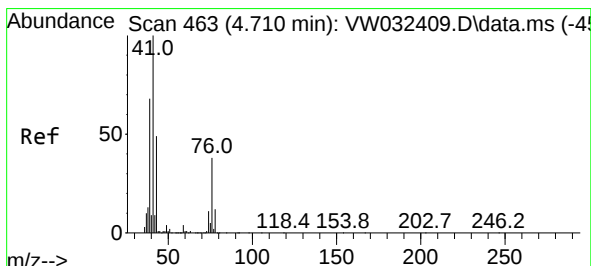
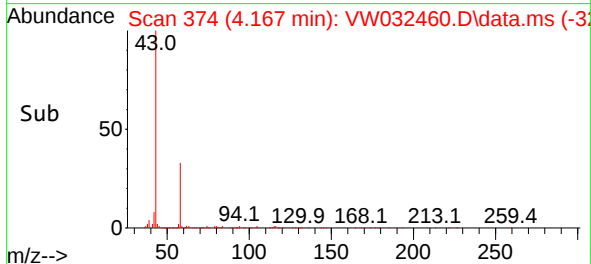
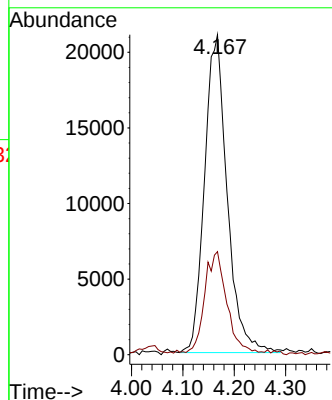
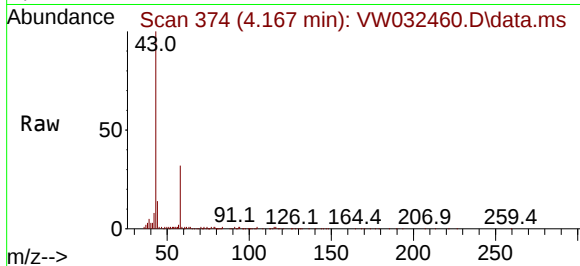




#16
Acetone
Concen: 80.209 ug/l
RT: 4.167 min Scan# 31
Delta R.T. 0.006 min
Lab File: VW032460.D
Acq: 17 Nov 2025 16:01

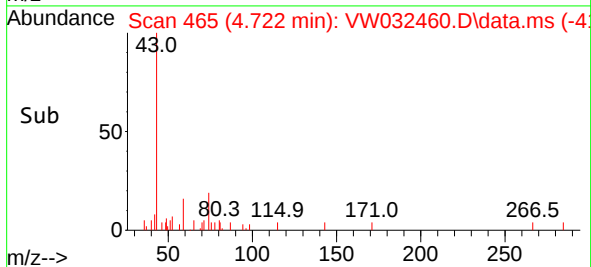
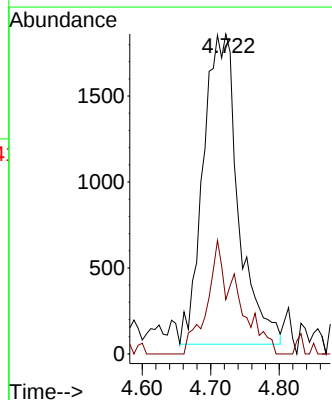
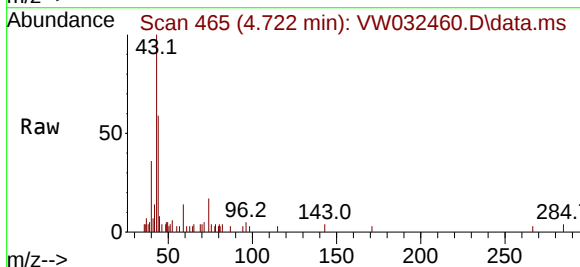
Instrument :
MSVOA_W
ClientSampleId :
HD-02-11142025

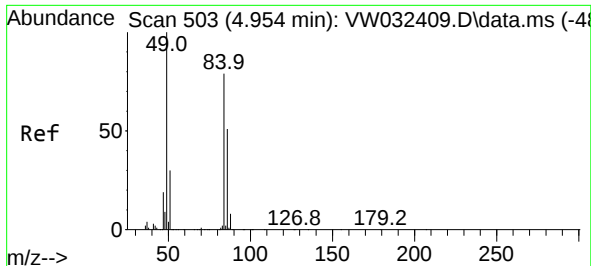
Tgt Ion: 43 Resp: 64358
Ion Ratio Lower Upper
43 100
58 31.7 24.8 37.2



#18
Methyl Acetate
Concen: 3.224 ug/l
RT: 4.722 min Scan# 465
Delta R.T. 0.012 min
Lab File: VW032460.D
Acq: 17 Nov 2025 16:01

Tgt Ion: 43 Resp: 6405
Ion Ratio Lower Upper
43 100
74 17.7 18.9 28.3#

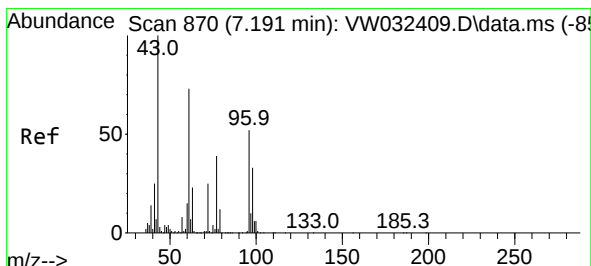
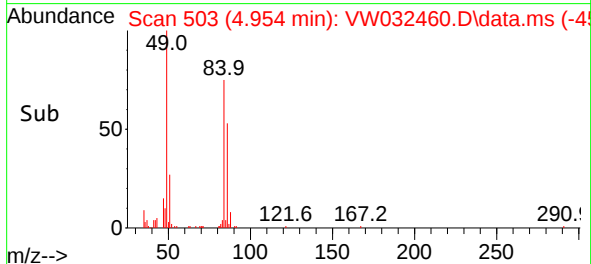
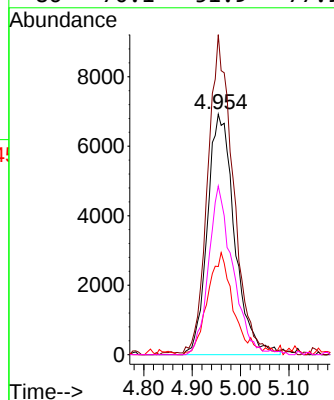
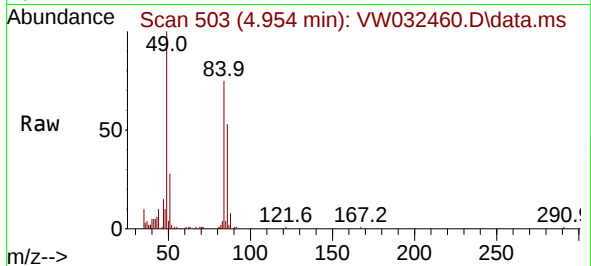




#20
Methylene Chloride
Concen: 9.389 ug/l
RT: 4.954 min Scan# 503
Delta R.T. 0.000 min
Lab File: VW032460.D
Acq: 17 Nov 2025 16:01

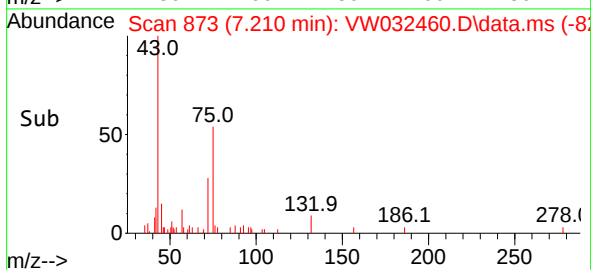
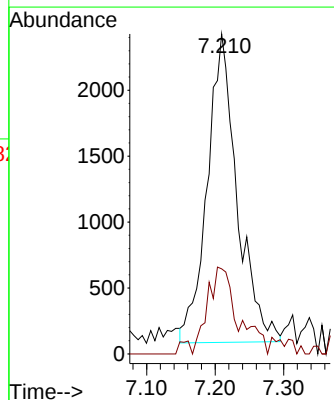
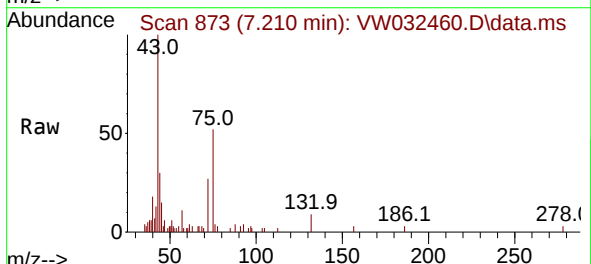
Instrument :
MSVOA_W
ClientSampleId :
HD-02-11142025

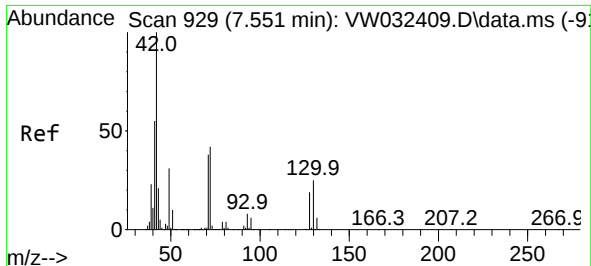
Tgt Ion:	84	Resp:	26941
Ion	Ratio	Lower	Upper
84	100		
49	132.3	101.5	152.3
51	36.6	30.6	46.0
86	70.1	51.9	77.9



#25
2-Butanone
Concen: 6.012 ug/l
RT: 7.210 min Scan# 873
Delta R.T. 0.019 min
Lab File: VW032460.D
Acq: 17 Nov 2025 16:01

Tgt Ion:	43	Resp:	7107
Ion	Ratio	Lower	Upper
43	100		
72	24.2	20.0	30.0





#29

Tetrahydrofuran

Concen: 1.148 ug/l

RT: 7.563 min Scan# 91

Delta R.T. 0.012 min

Lab File: VW032460.D

Acq: 17 Nov 2025 16:01

Instrument :

MSVOA_W

ClientSampleId :

HD-02-11142025

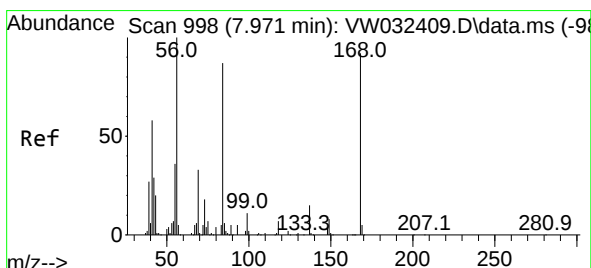
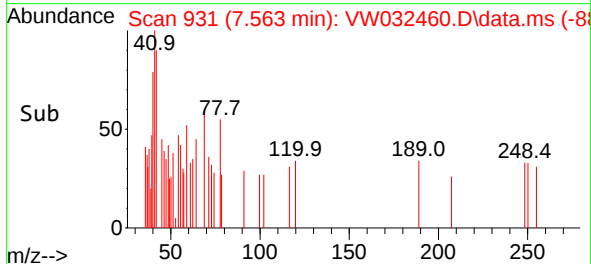
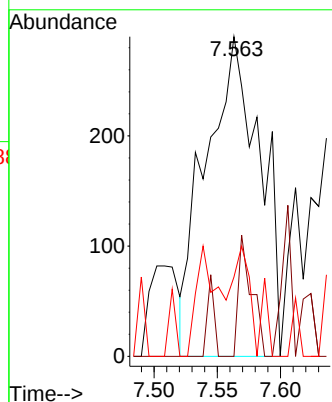
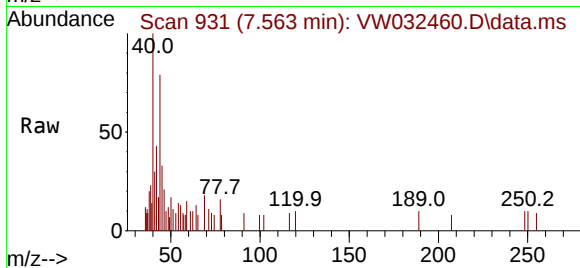
Tgt Ion: 42 Resp: 861

Ion Ratio Lower Upper

42 100

72 9.4 33.6 50.4#

71 13.4 31.4 47.0#



#31

Cyclohexane

Concen: 1.762 ug/l

RT: 7.959 min Scan# 996

Delta R.T. -0.012 min

Lab File: VW032460.D

Acq: 17 Nov 2025 16:01

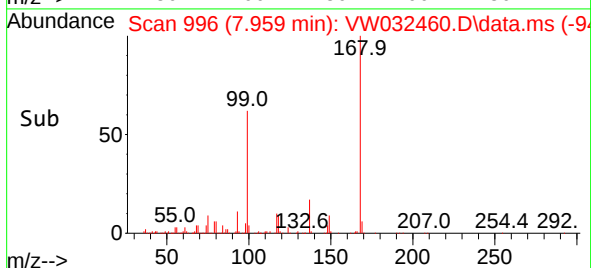
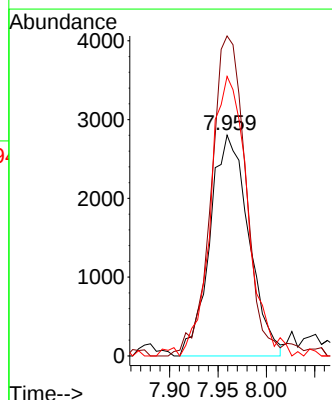
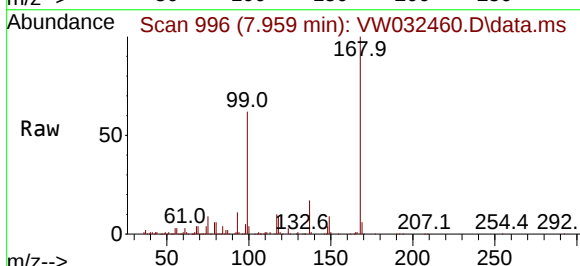
Tgt Ion: 56 Resp: 7819

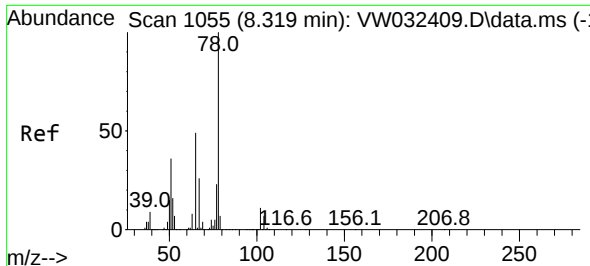
Ion Ratio Lower Upper

56 100

69 142.2 26.5 39.7#

84 126.6 69.6 104.4#

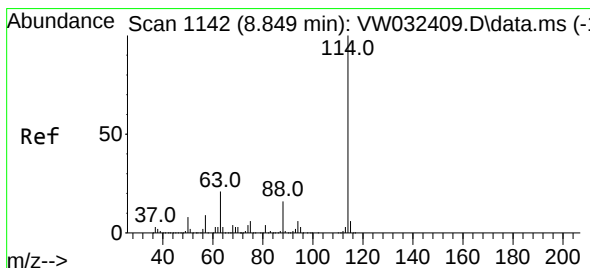
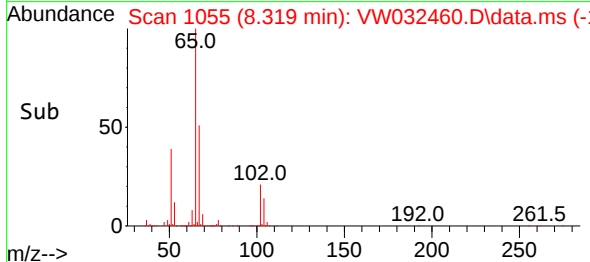
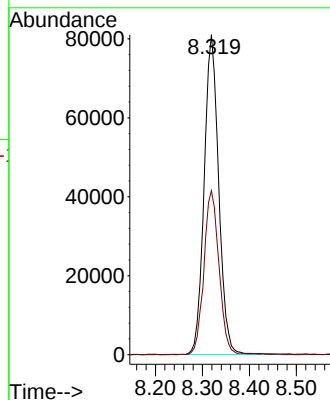
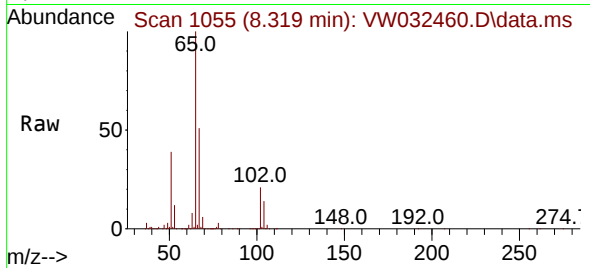




#33
 1,2-Dichloroethane-d4
 Concen: 64.928 ug/l
 RT: 8.319 min Scan# 1055
 Delta R.T. 0.000 min
 Lab File: VW032460.D
 Acq: 17 Nov 2025 16:01

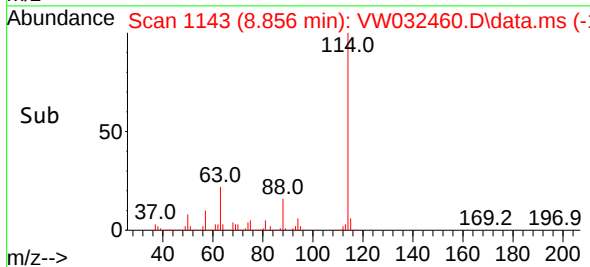
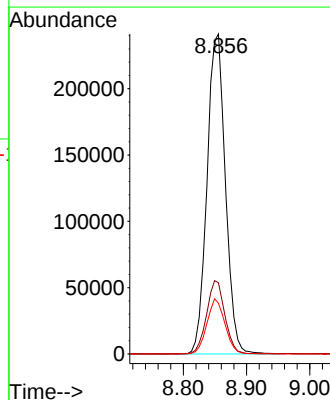
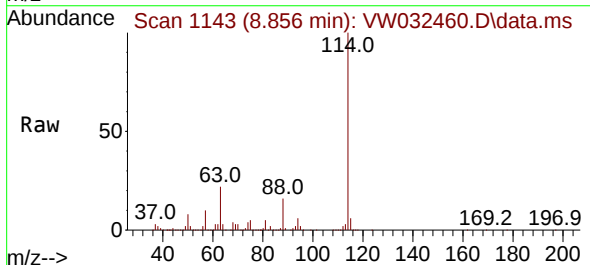
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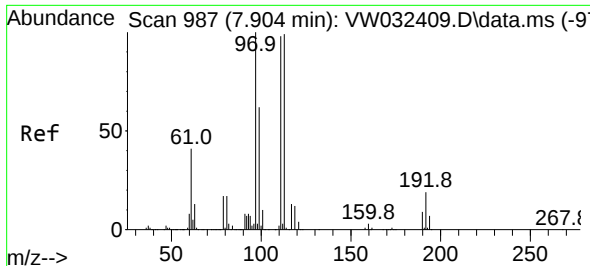
Tgt Ion: 65 Resp: 174134
 Ion Ratio Lower Upper
 65 100
 67 53.2 0.0 106.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.856 min Scan# 1143
 Delta R.T. 0.006 min
 Lab File: VW032460.D
 Acq: 17 Nov 2025 16:01

Tgt Ion: 114 Resp: 487908
 Ion Ratio Lower Upper
 114 100
 63 22.2 0.0 41.8
 88 15.8 0.0 32.6

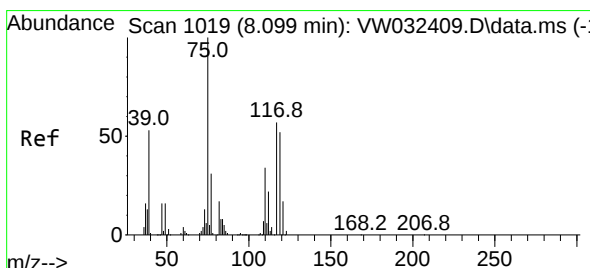
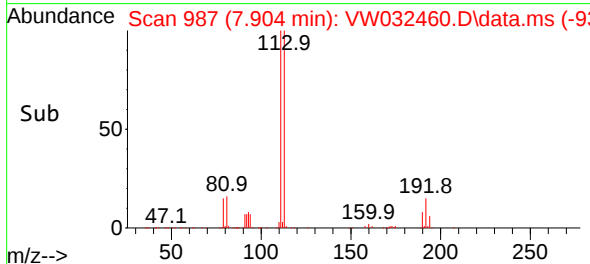
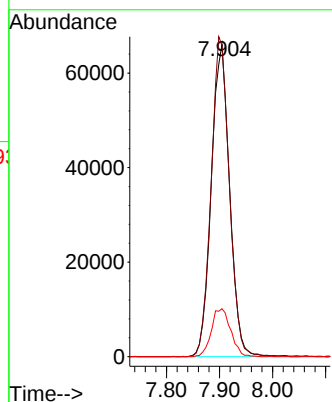
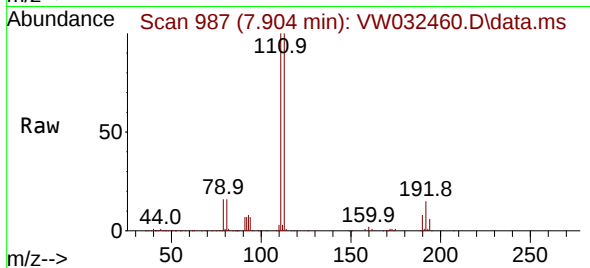




#35
Dibromofluoromethane
Concen: 54.305 ug/l
RT: 7.904 min Scan# 911
Delta R.T. 0.000 min
Lab File: VW032460.D
Acq: 17 Nov 2025 16:01

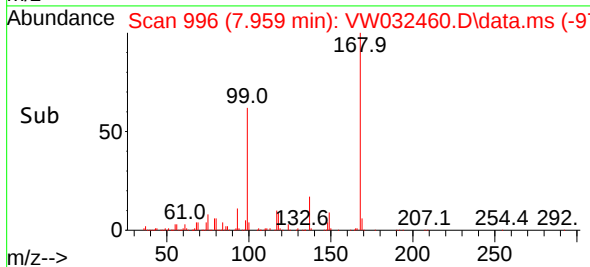
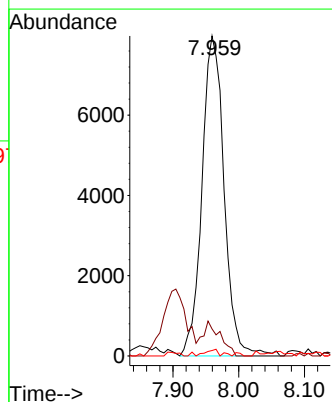
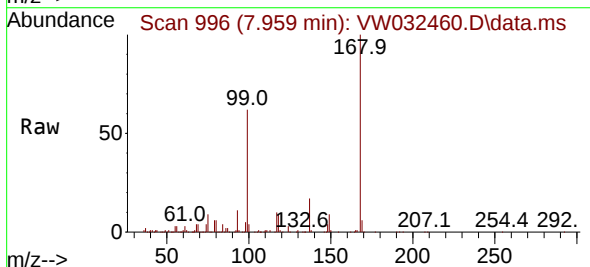
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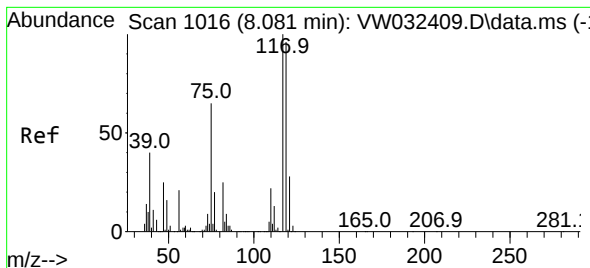
Tgt Ion:113 Resp: 158636
Ion Ratio Lower Upper
113 100
111 101.7 83.1 124.7
192 16.2 13.4 20.2



#36
1,1-Dichloropropene
Concen: 4.351 ug/l
RT: 7.959 min Scan# 996
Delta R.T. -0.140 min
Lab File: VW032460.D
Acq: 17 Nov 2025 16:01

Tgt Ion: 75 Resp: 18728
Ion Ratio Lower Upper
75 100
110 8.6 17.2 51.5#
77 1.3 24.5 36.7#





#38

Carbon Tetrachloride

Concen: 5.916 ug/l

RT: 7.965 min Scan# 91

Delta R.T. -0.116 min

Lab File: VW032460.D

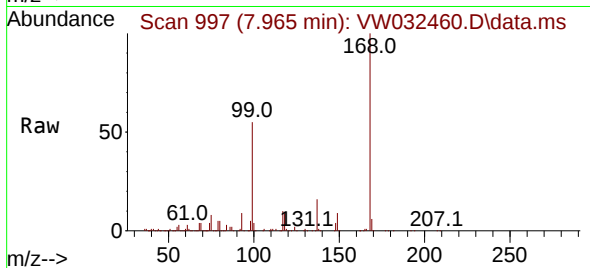
Acq: 17 Nov 2025 16:01

Instrument :

MSVOA_W

ClientSampleId :

HD-02-11142025



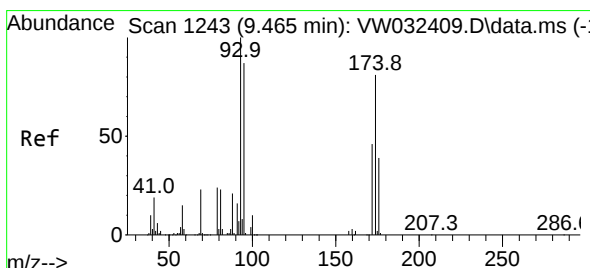
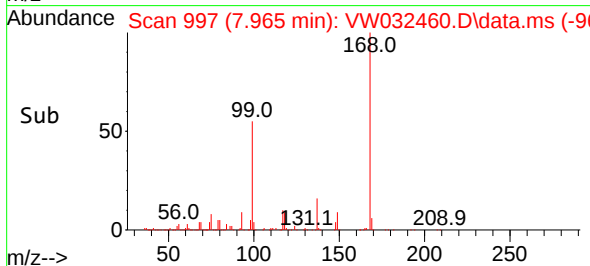
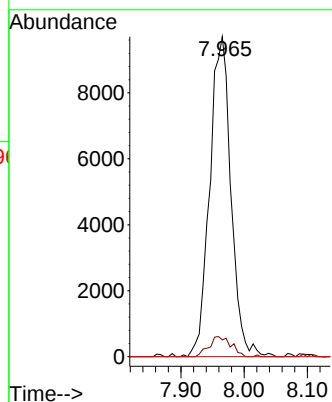
Tgt Ion:117 Resp: 22627

Ion Ratio Lower Upper

117 100

119 5.2 77.0 115.4#

121 0.0 22.0 33.0#



#49

1,4-Dioxane

Concen: 2.761 ug/l

RT: 9.514 min Scan# 1251

Delta R.T. 0.049 min

Lab File: VW032460.D

Acq: 17 Nov 2025 16:01

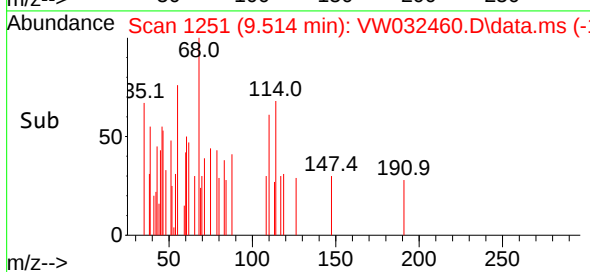
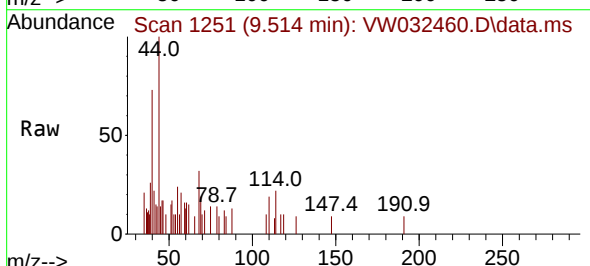
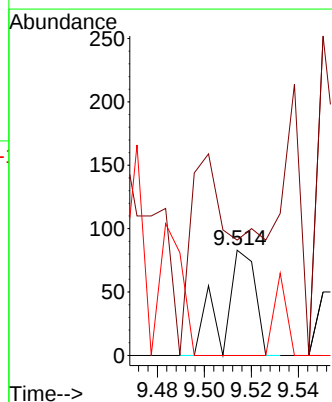
Tgt Ion: 88 Resp: 78

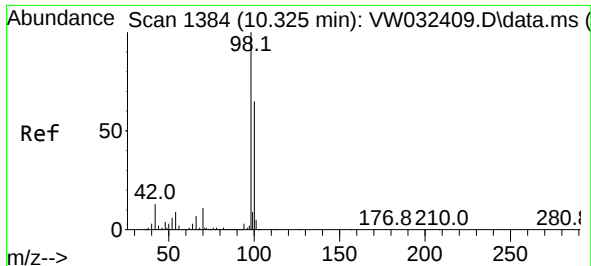
Ion Ratio Lower Upper

88 100

43 230.8 0.0 0.0#

58 0.0 63.0 94.4#

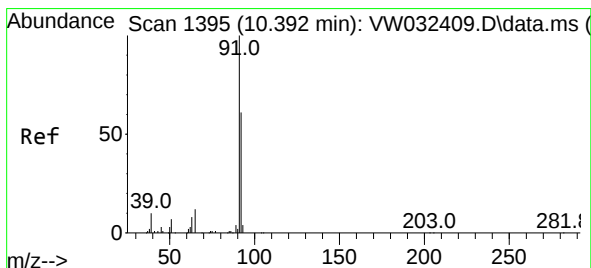
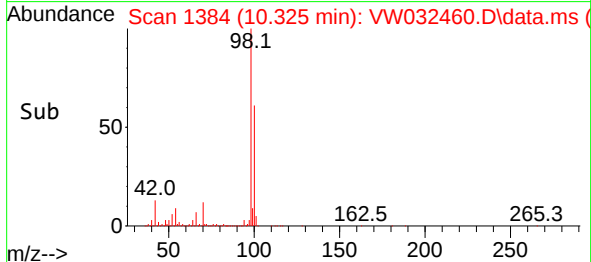
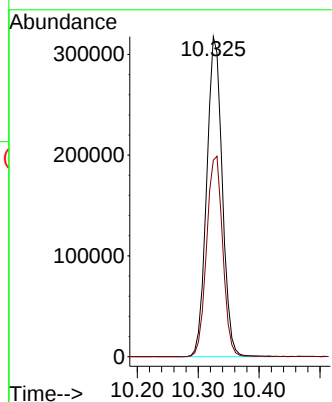
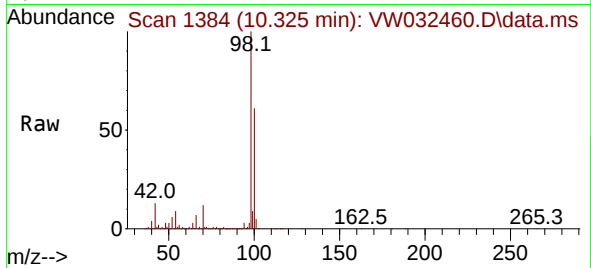




#50
Toluene-d8
Concen: 50.315 ug/l
RT: 10.325 min Scan# 1384
Delta R.T. 0.000 min
Lab File: VW032460.D
Acq: 17 Nov 2025 16:01

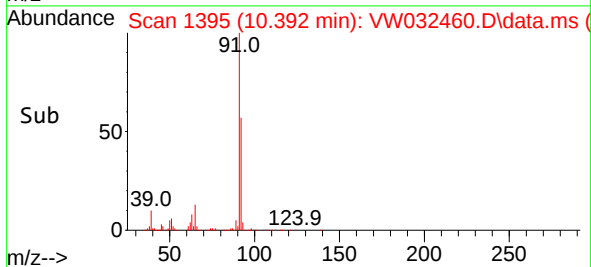
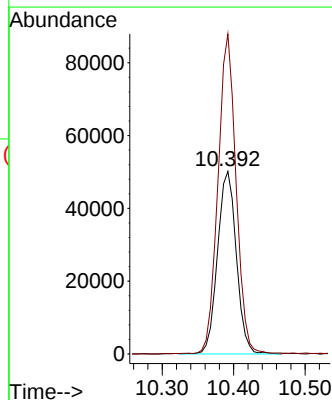
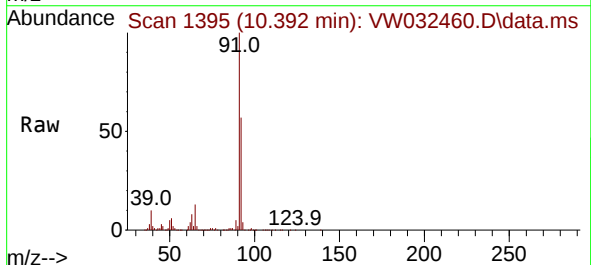
Instrument :
MSVOA_W
ClientSampleId :
HD-02-11142025

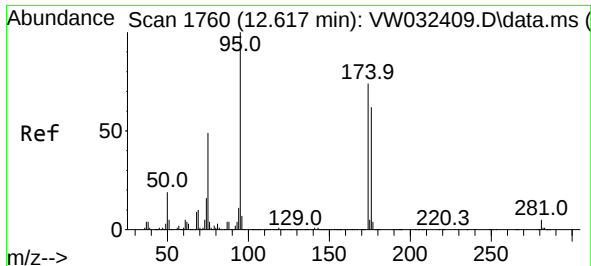
Tgt Ion: 98 Resp: 563865
Ion Ratio Lower Upper
98 100
100 64.8 53.3 79.9



#52
Toluene
Concen: 10.707 ug/l
RT: 10.392 min Scan# 1395
Delta R.T. 0.000 min
Lab File: VW032460.D
Acq: 17 Nov 2025 16:01

Tgt Ion: 92 Resp: 91666
Ion Ratio Lower Upper
92 100
91 169.2 136.6 205.0

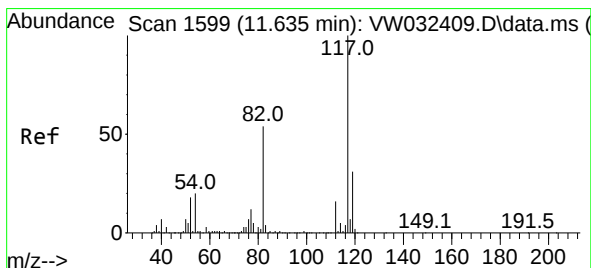
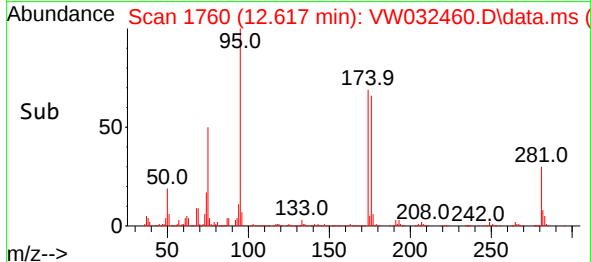
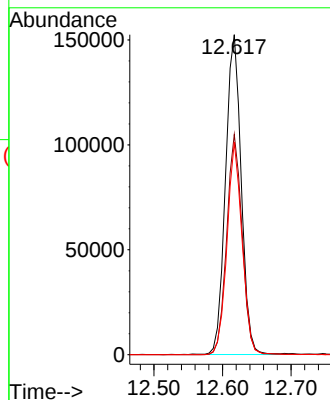
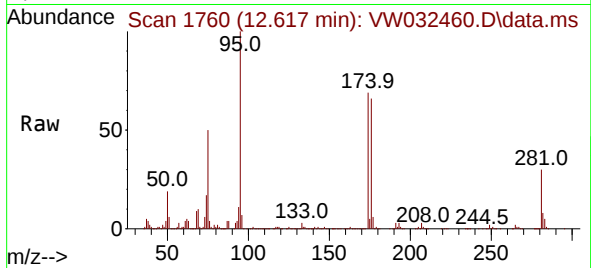




#62
4-Bromofluorobenzene
Concen: 57.180 ug/l
RT: 12.617 min Scan# 11
Delta R.T. 0.000 min
Lab File: VW032460.D
Acq: 17 Nov 2025 16:01

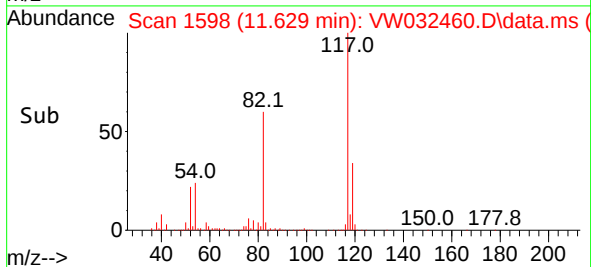
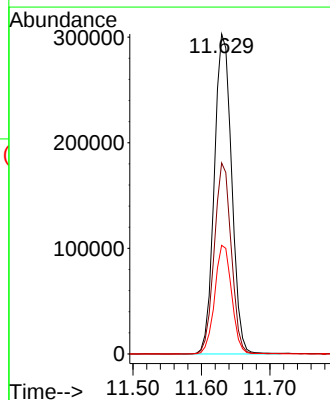
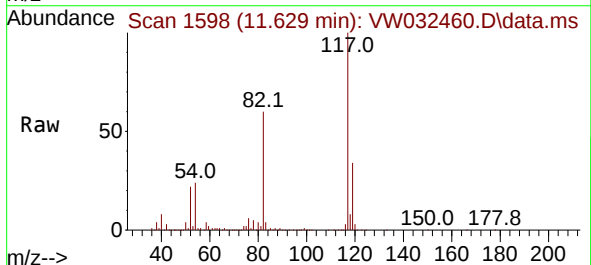
Instrument :
MSVOA_W
ClientSampleId :
HD-02-11142025

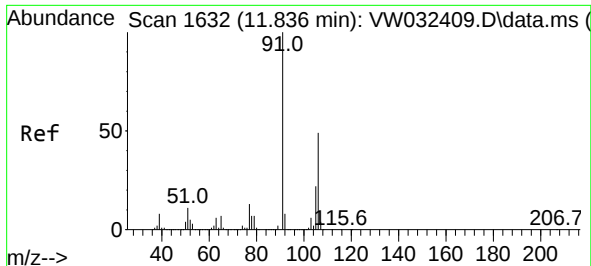
Tgt Ion: 95 Resp: 242072
Ion Ratio Lower Upper
95 100
174 67.8 0.0 135.4
176 64.0 0.0 131.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.629 min Scan# 1598
Delta R.T. -0.006 min
Lab File: VW032460.D
Acq: 17 Nov 2025 16:01

Tgt Ion: 117 Resp: 532415
Ion Ratio Lower Upper
117 100
82 59.7 43.0 64.4
119 34.0 25.0 37.6

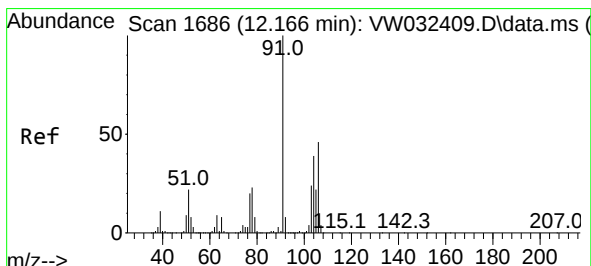
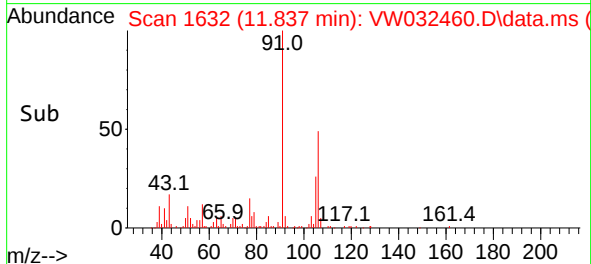
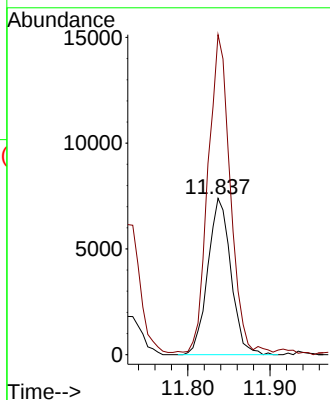
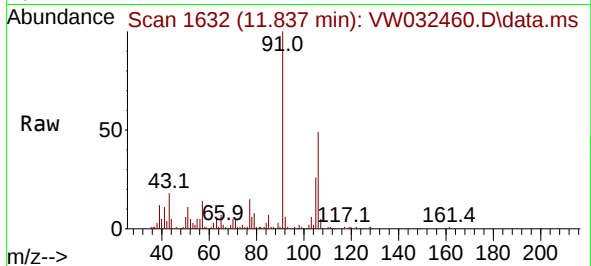




#68
m/p-Xylenes
Concen: 1.933 ug/l
RT: 11.837 min Scan# 11
Delta R.T. 0.000 min
Lab File: VW032460.D
Acq: 17 Nov 2025 16:01

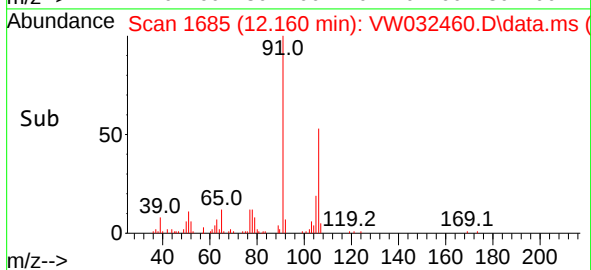
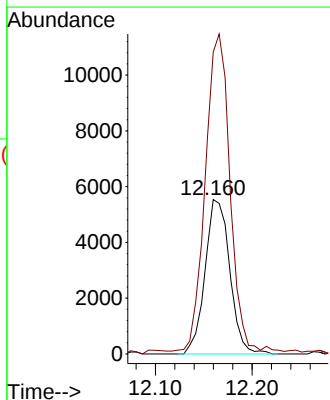
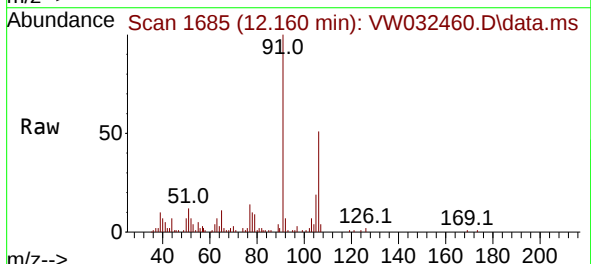
Instrument :
MSVOA_W
ClientSampleId :
HD-02-11142025

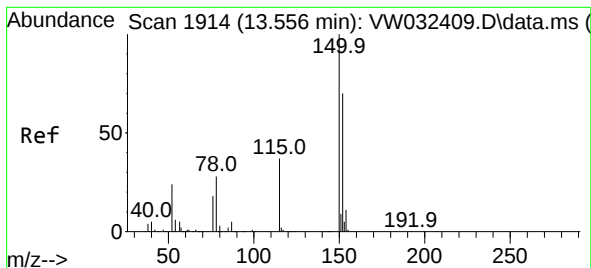
Tgt Ion:106 Resp: 14410
Ion Ratio Lower Upper
106 100
91 194.9 165.5 248.3



#69
o-Xylene
Concen: 1.379 ug/l
RT: 12.160 min Scan# 1685
Delta R.T. -0.006 min
Lab File: VW032460.D
Acq: 17 Nov 2025 16:01

Tgt Ion:106 Resp: 9846
Ion Ratio Lower Upper
106 100
91 203.8 109.3 327.8





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.556 min Scan# 1914

Delta R.T. 0.000 min

Lab File: VW032460.D

Acq: 17 Nov 2025 16:01

Instrument :

MSVOA_W

ClientSampleId :

HD-02-11142025

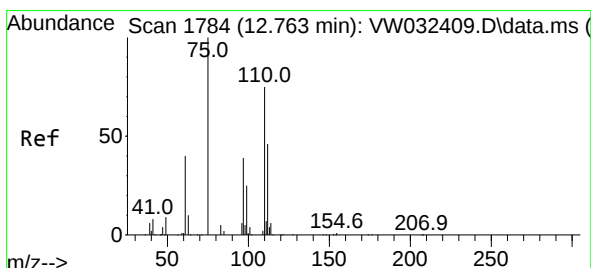
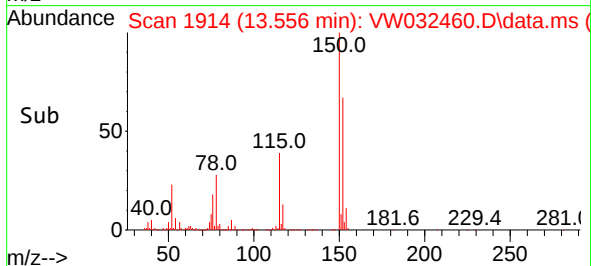
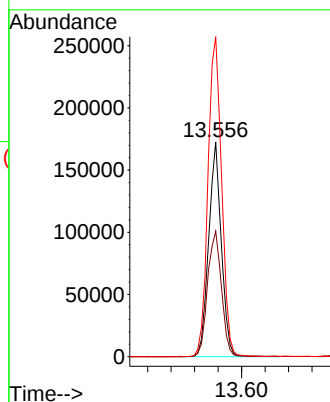
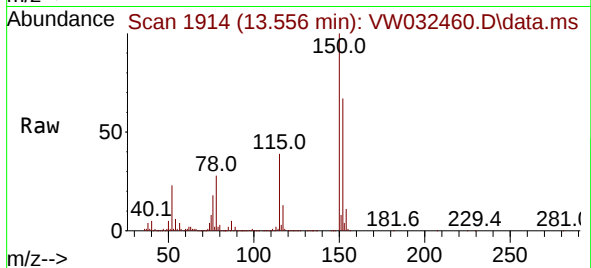
Tgt Ion:152 Resp: 259060

Ion Ratio Lower Upper

152 100

115 63.4 32.8 98.3

150 160.0 0.0 356.6



#76

1,2,3-Trichloropropane

Concen: 35.050 ug/l

RT: 12.617 min Scan# 1760

Delta R.T. -0.146 min

Lab File: VW032460.D

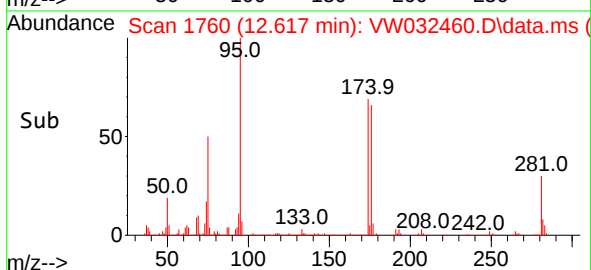
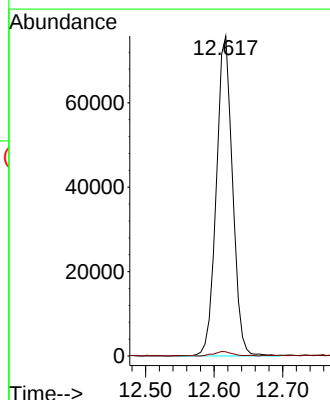
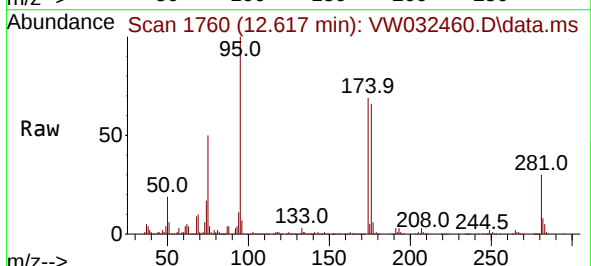
Acq: 17 Nov 2025 16:01

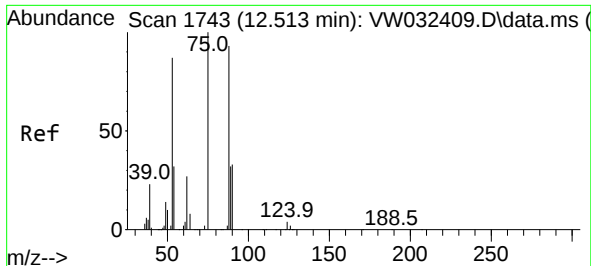
Tgt Ion: 75 Resp: 124503

Ion Ratio Lower Upper

75 100

77 1.7 151.6 454.8#

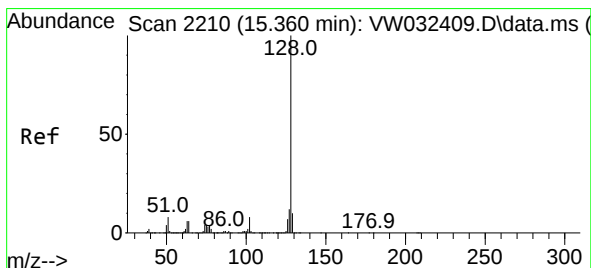
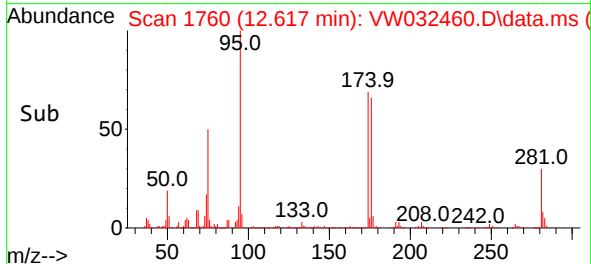
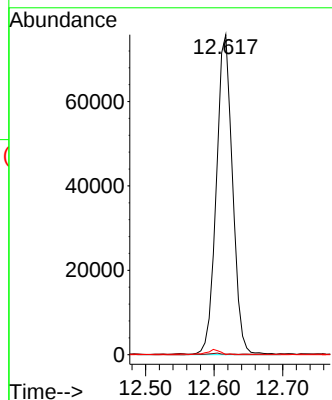
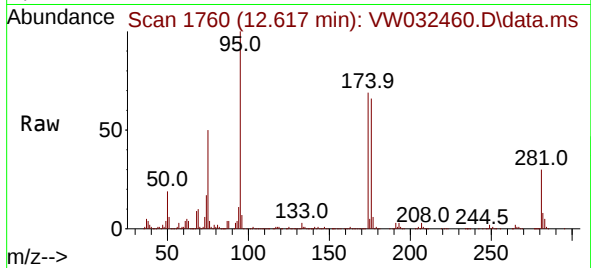




#81
trans-1,4-Dichloro-2-butene
Concen: 80.280 ug/l
RT: 12.617 min Scan# 11
Delta R.T. 0.104 min
Lab File: VW032460.D
Acq: 17 Nov 2025 16:01

Instrument :
MSVOA_W
ClientSampleId :
HD-02-11142025

Tgt Ion: 75 Resp: 124503
Ion Ratio Lower Upper
75 100
53 0.3 77.8 116.8#
89 1.3 35.6 53.4#



#95
Naphthalene
Concen: 2.100 ug/l
RT: 15.354 min Scan# 2209
Delta R.T. -0.006 min
Lab File: VW032460.D
Acq: 17 Nov 2025 16:01

Tgt Ion:128 Resp: 26130
Ion Ratio Lower Upper
128 100
127 13.9 10.2 15.4
129 12.8 8.6 12.8

