

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW102025\
 Data File : VW032402.D
 Acq On : 20 Oct 2025 20:04
 Operator : SY/MD
 Sample : VIBLK
 Misc : 5.00g/5mL/MSVOA_W/SOIL
 ALS Vial : 27 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 VIBLK

Quant Time: Oct 21 01:36:43 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)

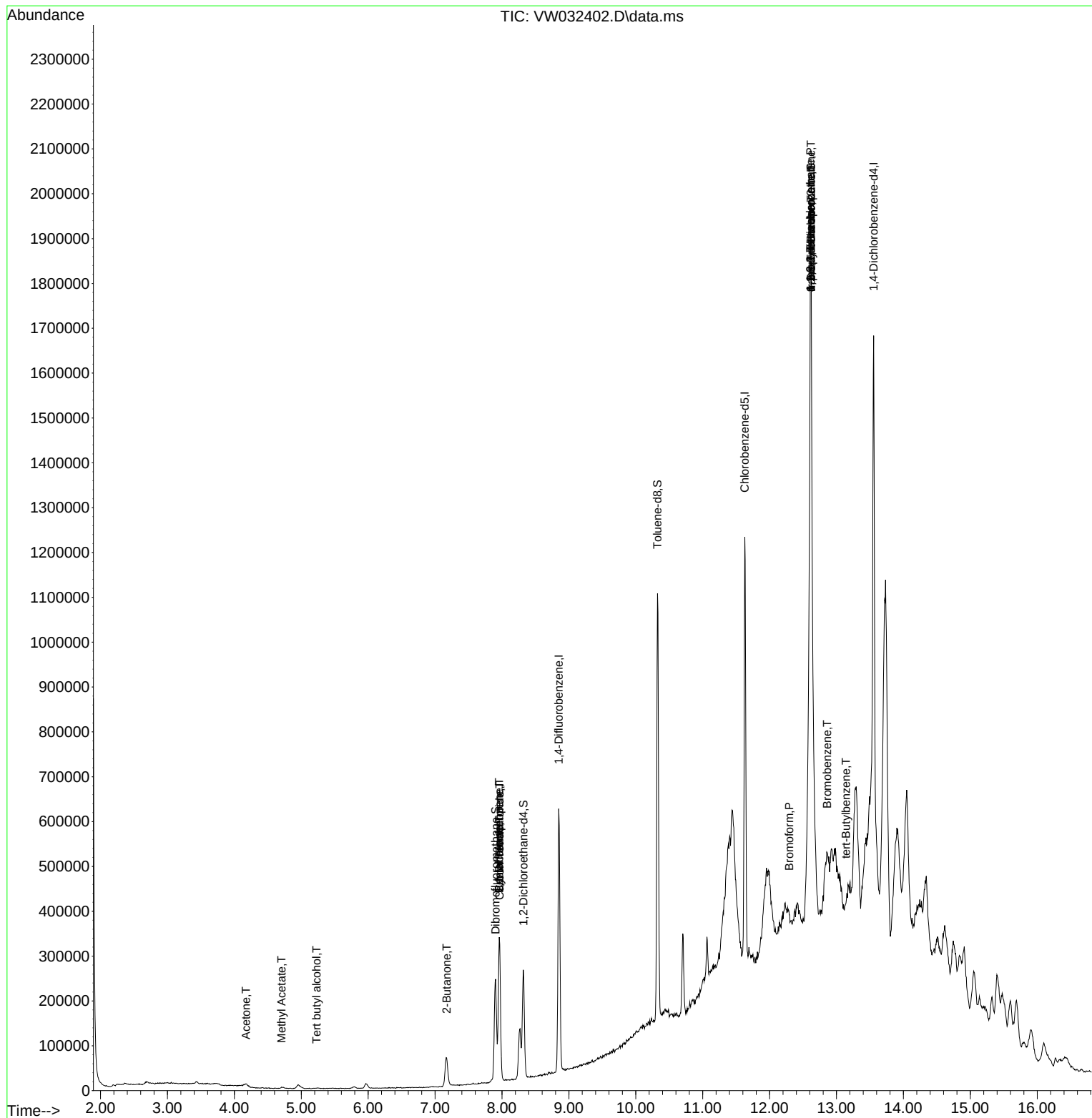
Internal Standards						
1) Pentafluorobenzene	7.959	168	231542	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.849	114	509285	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.629	117	508688	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.556	152	270773	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.319	65	197463	58.470	ug/l	0.00
Spiked Amount 50.000	Range 63 - 155		Recovery = 116.940%			
35) Dibromofluoromethane	7.904	113	174663	52.957	ug/l	0.00
Spiked Amount 50.000	Range 70 - 134		Recovery = 105.920%			
50) Toluene-d8	10.325	98	657182	53.987	ug/l	0.00
Spiked Amount 50.000	Range 74 - 123		Recovery = 107.980%			
62) 4-Bromofluorobenzene	12.617	95	496613	107.937	ug/l	0.00
Spiked Amount 50.000	Range 17 - 146		Recovery = 215.880%#			
Target Compounds					Qvalue	
11) Tert butyl alcohol	5.228	59	437	1.710	ug/l #	39
16) Acetone	4.173	43	7489	8.009	ug/l	100
18) Methyl Acetate	4.704	43	6949	2.594	ug/l	94
20) Methylene Chloride	4.954	84	6049	Below Cal		92
25) 2-Butanone	7.173	43	3669	2.881	ug/l #	79
31) Cyclohexane	7.959	56	5613	1.181	ug/l #	28
36) 1,1-Dichloropropene	7.959	75	20946	4.500	ug/l #	42
38) Carbon Tetrachloride	7.965	117	24897	5.684	ug/l #	17
71) Bromoform	12.294	173	8194	4.101	ug/l #	82
75) 1,1,2,2-Tetrachloroethane	12.611	83	299691	65.154	ug/l #	26
76) 1,2,3-Trichloropropane	12.617	75	133323	37.416	ug/l #	1
77) Bromobenzene	12.861	156	163867	36.696	ug/l #	1
78) n-propylbenzene	12.617	91	42643	1.843	ug/l	84
81) trans-1,4-Dichloro-2-b...	12.617	75	133323	94.786	ug/l #	39
83) tert-Butylbenzene	13.141	119	28072	2.136	ug/l #	34

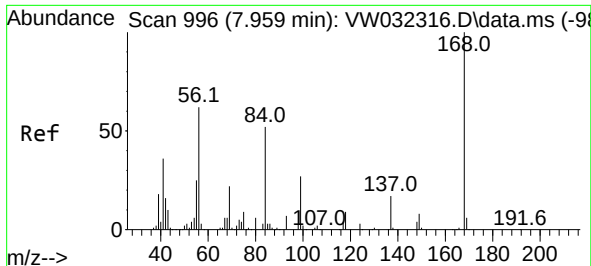
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW102025\
Data File : VW032402.D
Acq On : 20 Oct 2025 20:04
Operator : SY/MD
Sample : VIBLK
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 27 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VIBLK

Quant Time: Oct 21 01:36:43 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

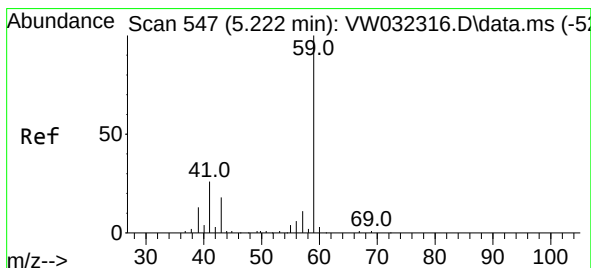
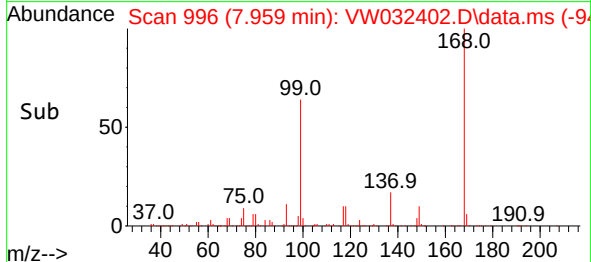
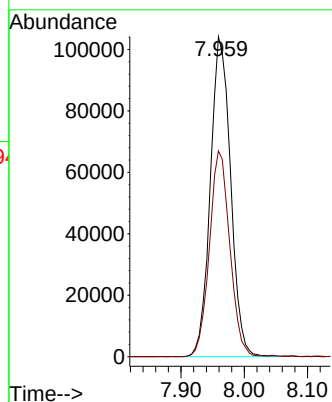
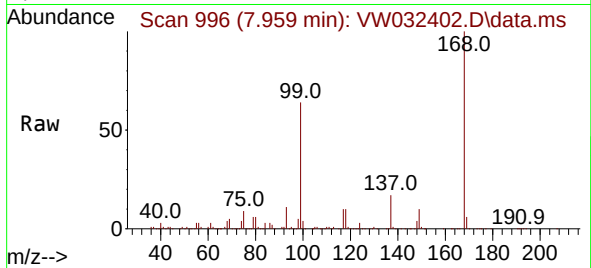




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.959 min Scan# 996
Delta R.T. -0.006 min
Lab File: VW032402.D
Acq: 20 Oct 2025 20:04

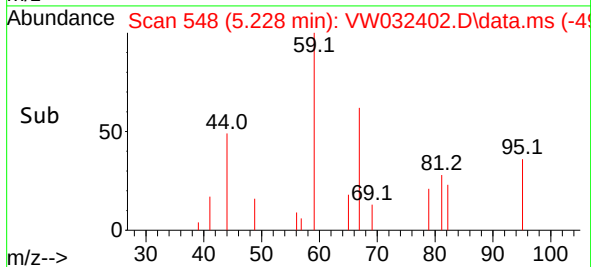
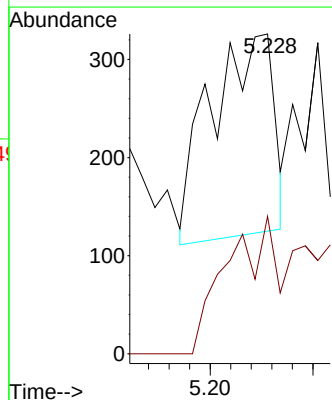
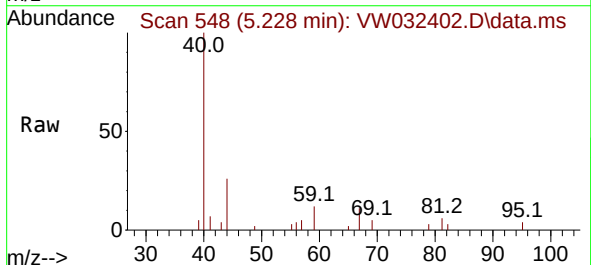
Instrument :
MSVOA_W
ClientSampleId :
VIBLK

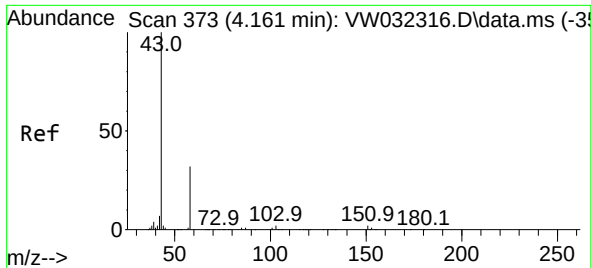
Tgt Ion:168 Resp: 231542
Ion Ratio Lower Upper
168 100
99 64.3 49.3 73.9



#11
Tert butyl alcohol
Concen: 1.710 ug/l
RT: 5.228 min Scan# 548
Delta R.T. 0.006 min
Lab File: VW032402.D
Acq: 20 Oct 2025 20:04

Tgt Ion: 59 Resp: 437
Ion Ratio Lower Upper
59 100
57 35.9 9.8 14.6#

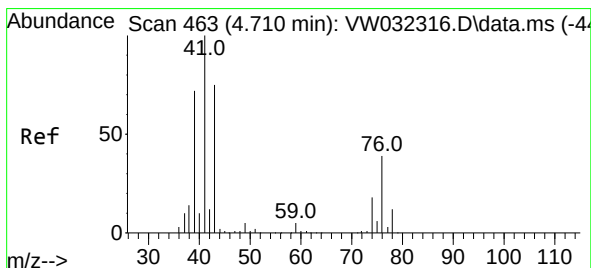
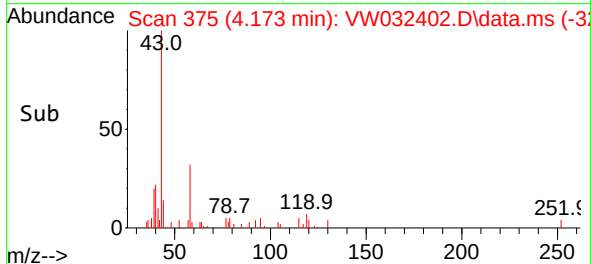
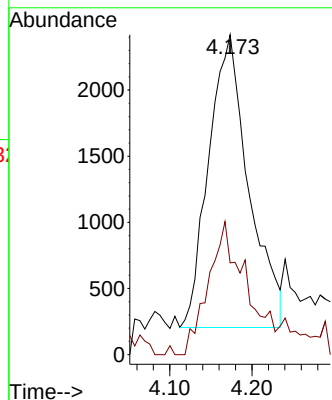
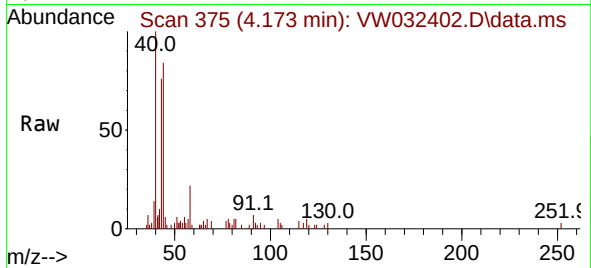




#16
Acetone
Concen: 8.009 ug/l
RT: 4.173 min Scan# 31
Delta R.T. 0.012 min
Lab File: VW032402.D
Acq: 20 Oct 2025 20:04

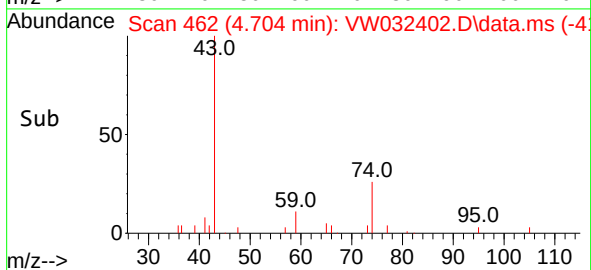
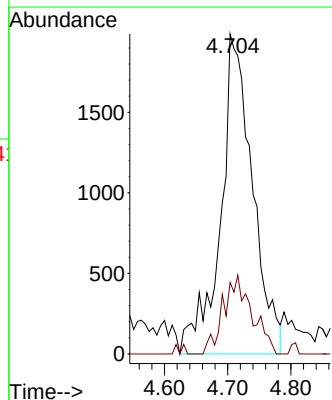
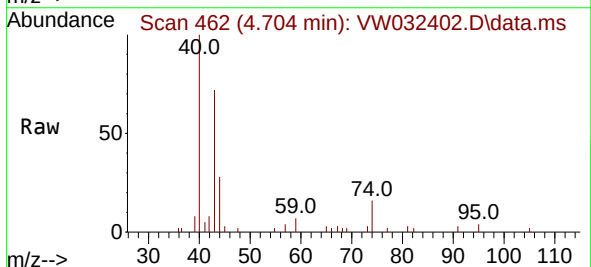
Instrument :
MSVOA_W
ClientSampleId :
VIBLK

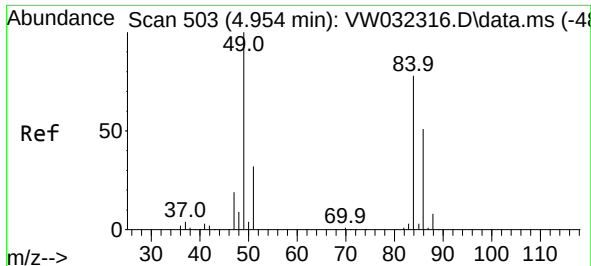
Tgt Ion: 43 Resp: 7489
Ion Ratio Lower Upper
43 100
58 31.3 25.3 37.9



#18
Methyl Acetate
Concen: 2.594 ug/l
RT: 4.704 min Scan# 462
Delta R.T. -0.006 min
Lab File: VW032402.D
Acq: 20 Oct 2025 20:04

Tgt Ion: 43 Resp: 6949
Ion Ratio Lower Upper
43 100
74 22.1 20.2 30.4

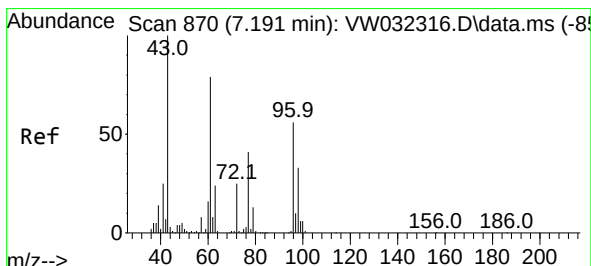
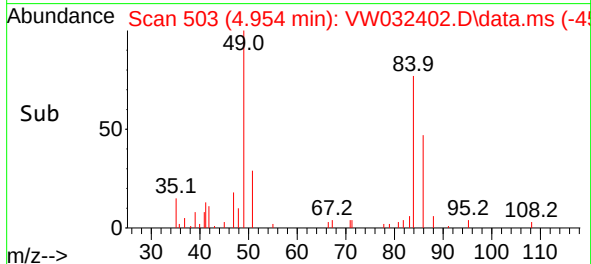
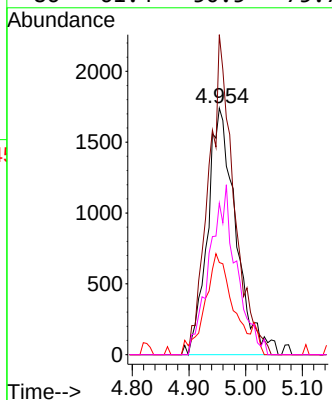
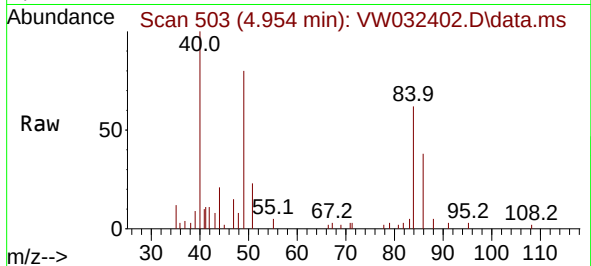




#20
Methylene Chloride
Concen: Below Cal
RT: 4.954 min Scan# 503
Delta R.T. -0.006 min
Lab File: VW032402.D
Acq: 20 Oct 2025 20:04

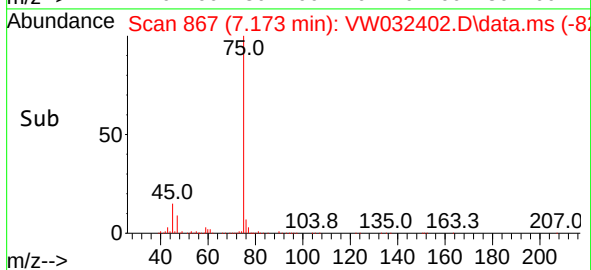
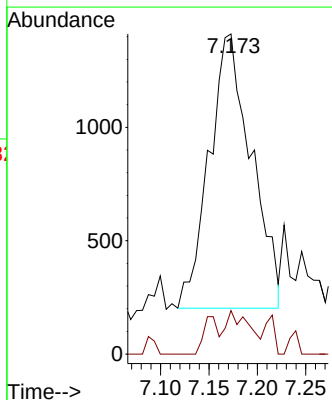
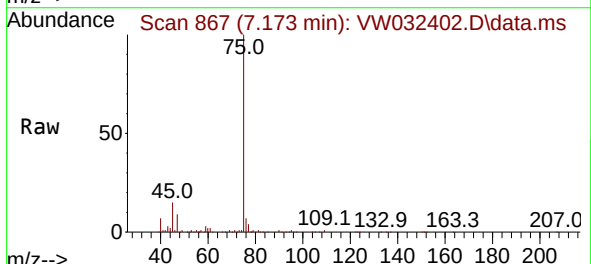
Instrument :
MSVOA_W
ClientSampleId :
VIBLK

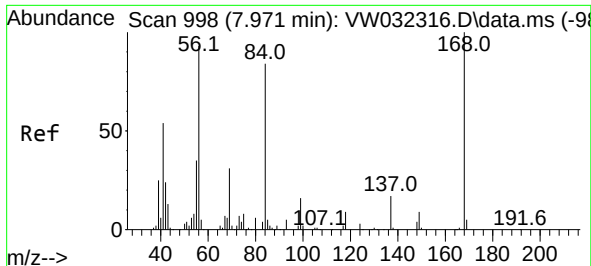
Tgt Ion:	84	Resp:	6049
Ion	Ratio	Lower	Upper
84	100		
49	129.8	92.2	138.4
51	37.4	31.0	46.6
86	61.4	50.5	75.7



#25
2-Butanone
Concen: 2.881 ug/l
RT: 7.173 min Scan# 867
Delta R.T. -0.018 min
Lab File: VW032402.D
Acq: 20 Oct 2025 20:04

Tgt Ion:	43	Resp:	3669
Ion	Ratio	Lower	Upper
43	100		
72	15.9	21.4	32.2#

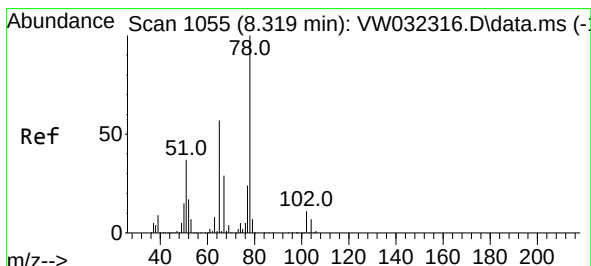
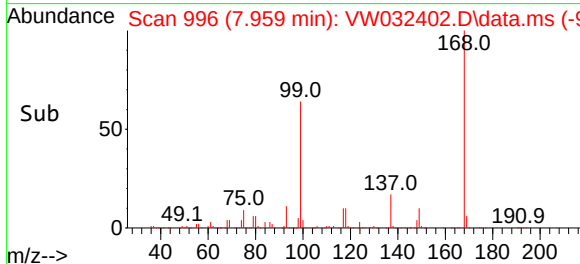
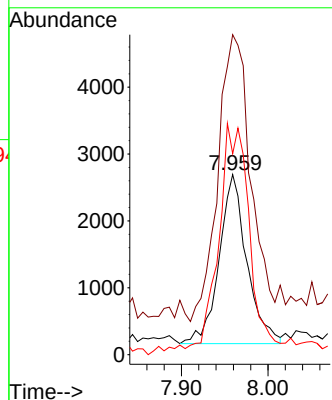
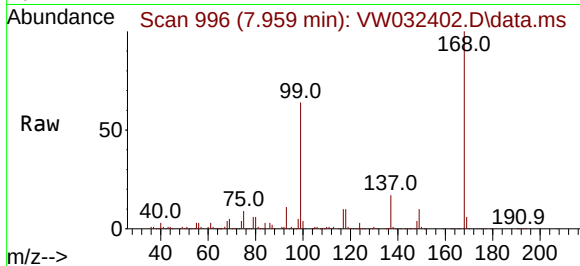




#31
Cyclohexane
Concen: 1.181 ug/l
RT: 7.959 min Scan# 998
Delta R.T. -0.012 min
Lab File: VW032402.D
Acq: 20 Oct 2025 20:04

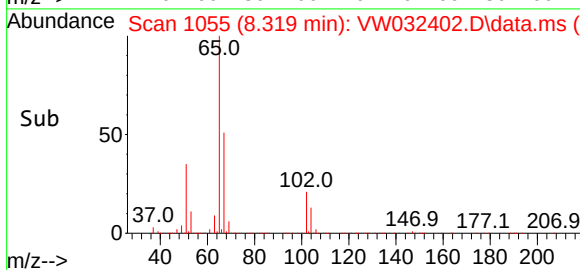
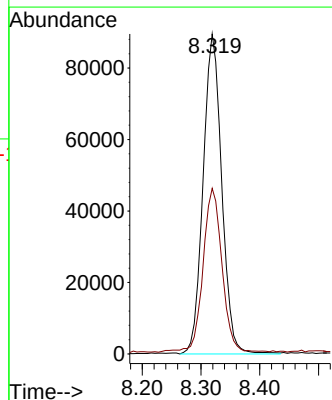
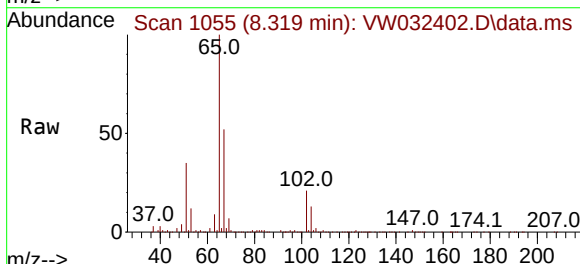
Instrument :
MSVOA_W
ClientSampleId :
VIBLK

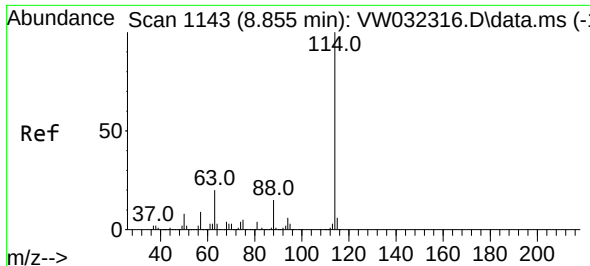
Tgt Ion: 56 Resp: 5613
Ion Ratio Lower Upper
56 100
69 157.0 27.7 41.5#
84 113.2 74.6 112.0#



#33
1,2-Dichloroethane-d4
Concen: 58.470 ug/l
RT: 8.319 min Scan# 1055
Delta R.T. -0.000 min
Lab File: VW032402.D
Acq: 20 Oct 2025 20:04

Tgt Ion: 65 Resp: 197463
Ion Ratio Lower Upper
65 100
67 52.1 0.0 99.6

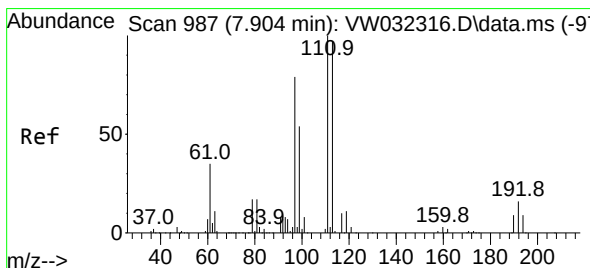
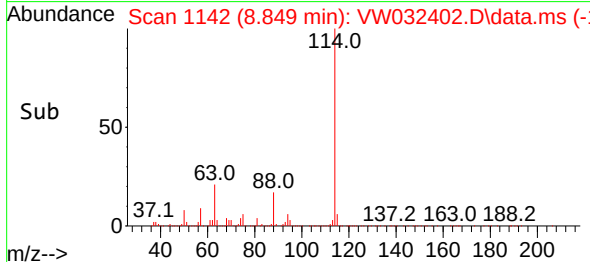
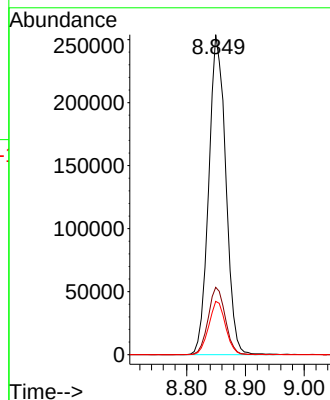
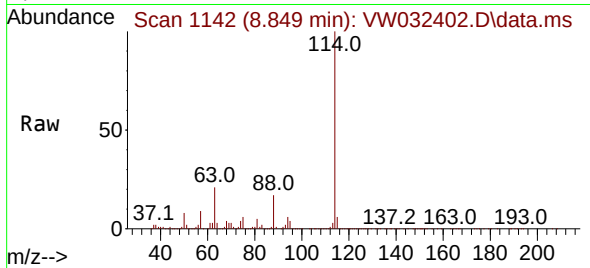




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.849 min Scan# 1142
Delta R.T. -0.006 min
Lab File: VW032402.D
Acq: 20 Oct 2025 20:04

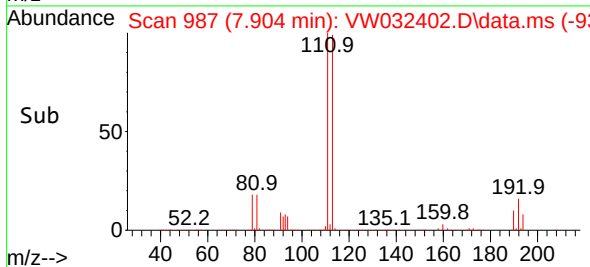
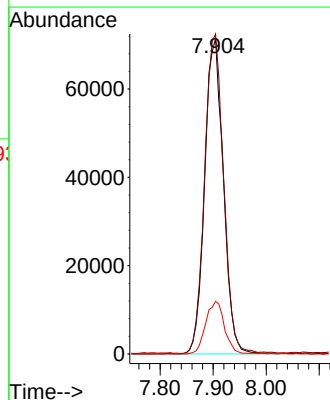
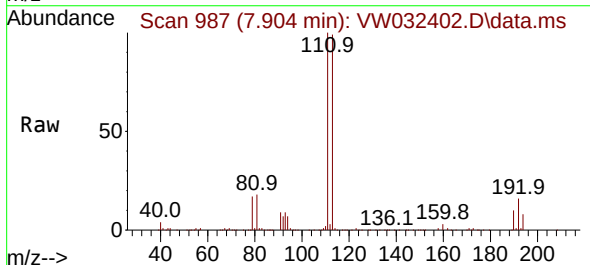
Instrument :
MSVOA_W
ClientSampleId :
VIBLK

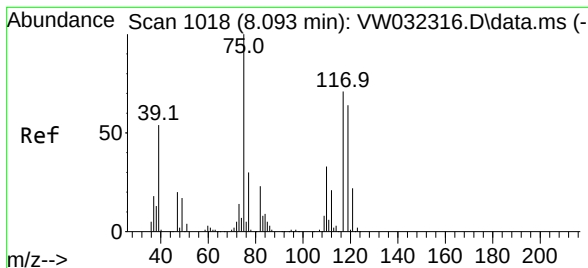
Tgt Ion:114 Resp: 509285
Ion Ratio Lower Upper
114 100
63 21.0 0.0 40.4
88 16.7 0.0 32.0



#35
Dibromofluoromethane
Concen: 52.957 ug/l
RT: 7.904 min Scan# 987
Delta R.T. -0.000 min
Lab File: VW032402.D
Acq: 20 Oct 2025 20:04

Tgt Ion:113 Resp: 174663
Ion Ratio Lower Upper
113 100
111 102.6 83.9 125.9
192 16.8 14.6 21.8





#36

1,1-Dichloropropene

Concen: 4.500 ug/l

RT: 7.959 min Scan# 996

Delta R.T. -0.140 min

Lab File: VW032402.D

Acq: 20 Oct 2025 20:04

Instrument :

MSVOA_W

ClientSampleId :

VIBLK

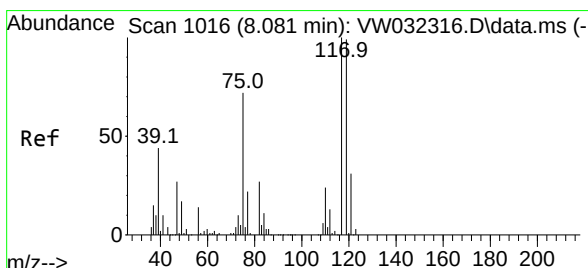
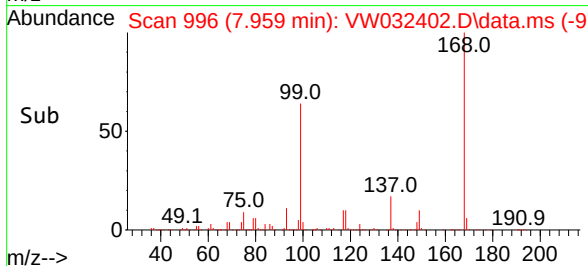
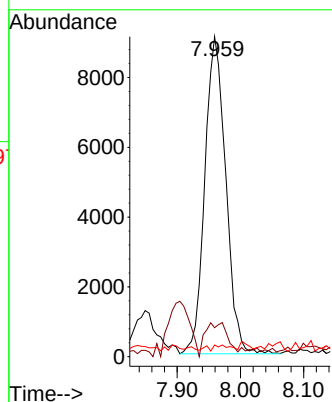
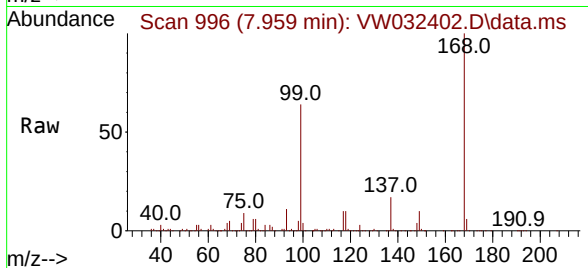
Tgt Ion: 75 Resp: 20946

Ion Ratio Lower Upper

75 100

110 0.0 17.5 52.5#

77 0.4 24.1 36.1#



#38

Carbon Tetrachloride

Concen: 5.684 ug/l

RT: 7.965 min Scan# 997

Delta R.T. -0.122 min

Lab File: VW032402.D

Acq: 20 Oct 2025 20:04

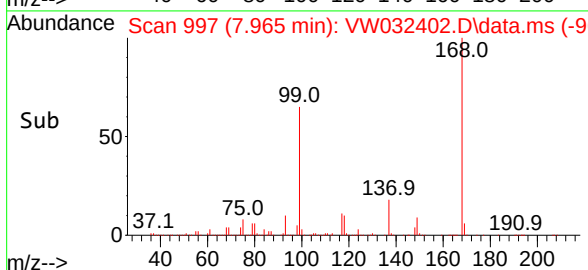
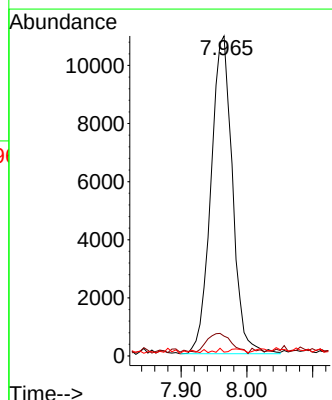
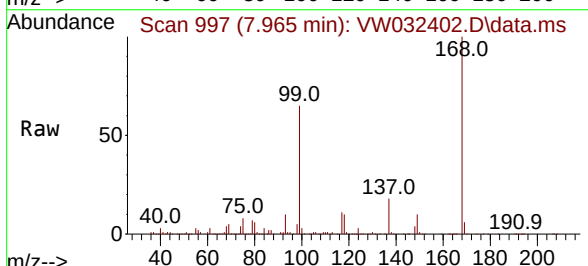
Tgt Ion: 117 Resp: 24897

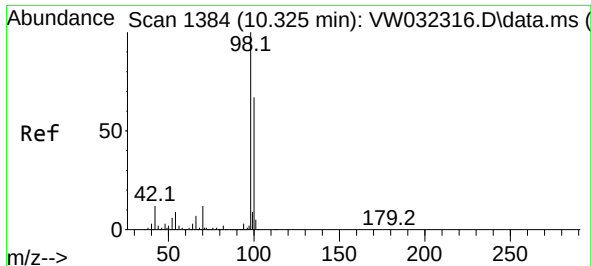
Ion Ratio Lower Upper

117 100

119 5.0 74.2 111.2#

121 0.4 25.6 38.4#

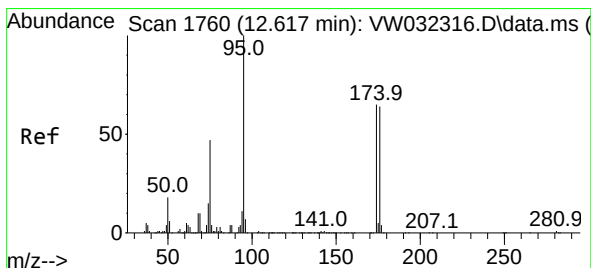
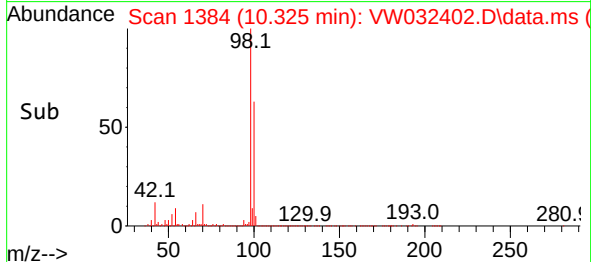
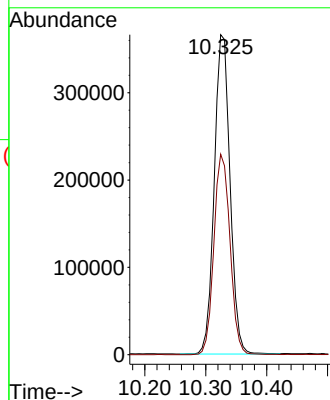
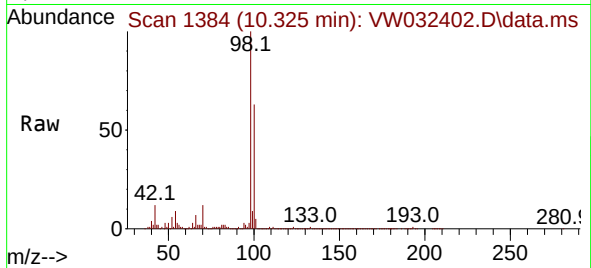




#50
Toluene-d8
Concen: 53.987 ug/l
RT: 10.325 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032402.D
Acq: 20 Oct 2025 20:04

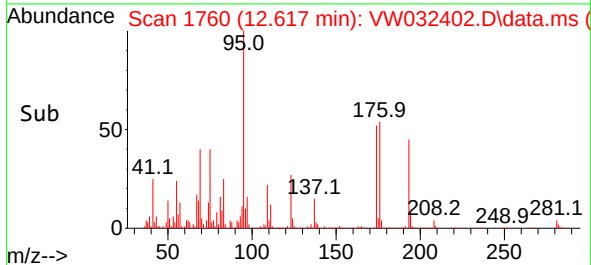
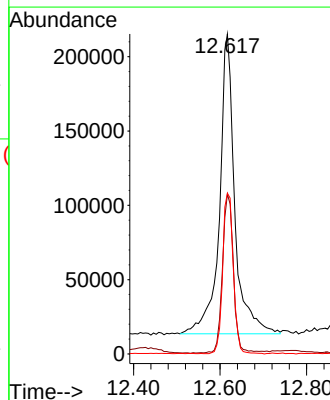
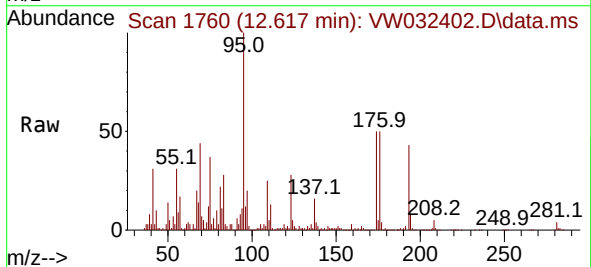
Instrument :
MSVOA_W
ClientSampleId :
VIBLK

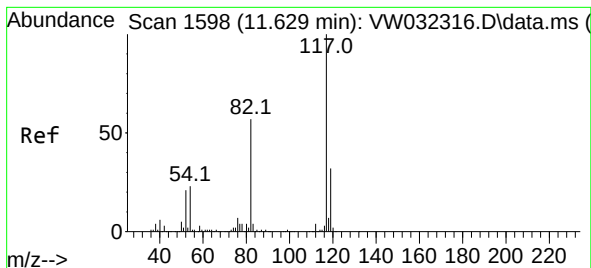
Tgt Ion: 98 Resp: 657182
Ion Ratio Lower Upper
98 100
100 64.3 51.4 77.2



#62
4-Bromofluorobenzene
Concen: 107.937 ug/l
RT: 12.617 min Scan# 1760
Delta R.T. -0.000 min
Lab File: VW032402.D
Acq: 20 Oct 2025 20:04

Tgt Ion: 95 Resp: 496613
Ion Ratio Lower Upper
95 100
174 38.0 0.0 145.6
176 37.3 0.0 140.8

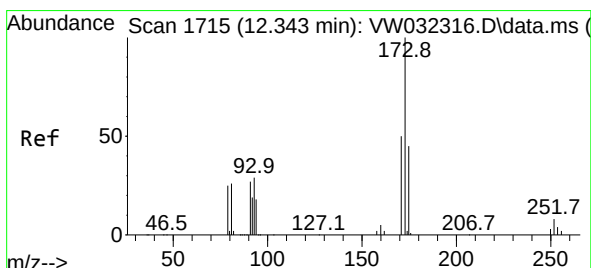
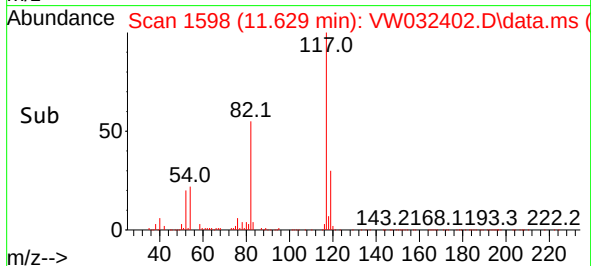
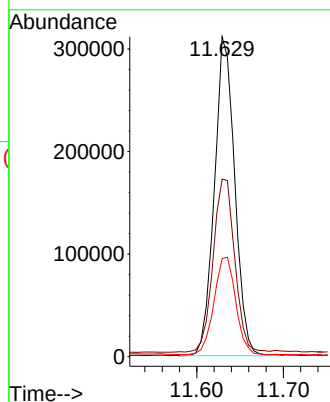
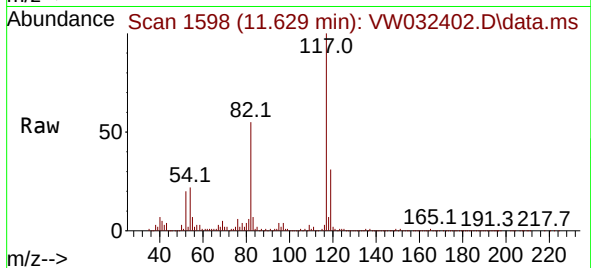




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.629 min Scan# 1170
Delta R.T. -0.000 min
Lab File: VW032402.D
Acq: 20 Oct 2025 20:04

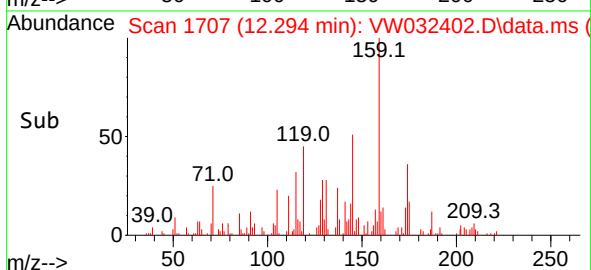
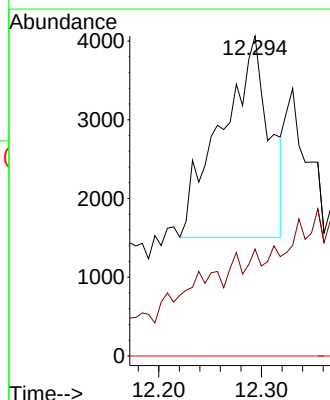
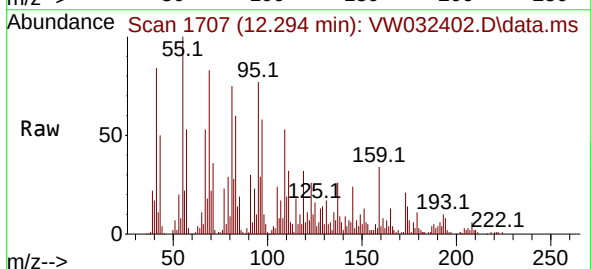
Instrument :
MSVOA_W
ClientSampleId :
VIBLK

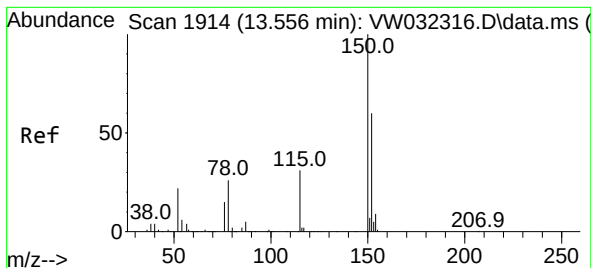
Tgt Ion:117 Resp: 508688
Ion Ratio Lower Upper
117 100
82 54.1 42.7 64.1
119 30.1 25.2 37.8



#71
Bromoform
Concen: 4.101 ug/l
RT: 12.294 min Scan# 1707
Delta R.T. -0.055 min
Lab File: VW032402.D
Acq: 20 Oct 2025 20:04

Tgt Ion:173 Resp: 8194
Ion Ratio Lower Upper
173 100
175 37.5 24.9 74.7
254 0.0 0.2 0.2#





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.556 min Scan# 1914

Delta R.T. -0.000 min

Lab File: VW032402.D

Acq: 20 Oct 2025 20:04

Instrument :

MSVOA_W

ClientSampleId :

VIBLK

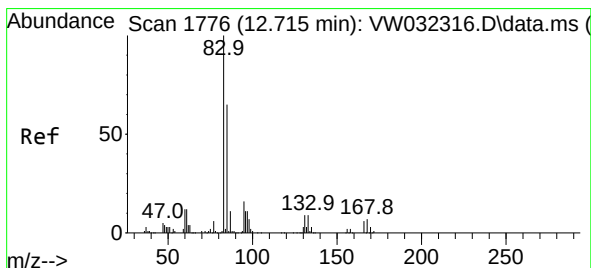
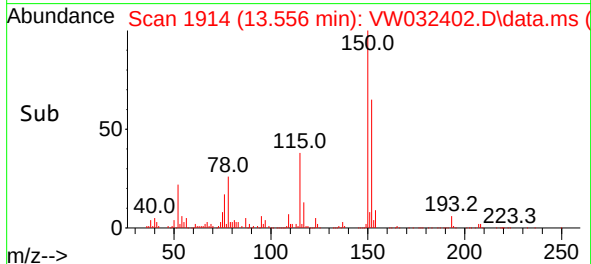
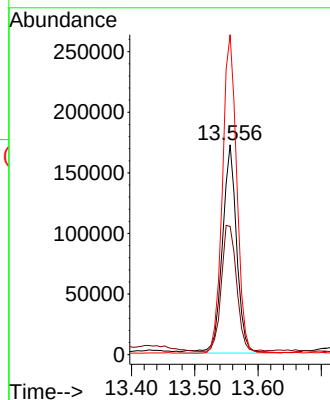
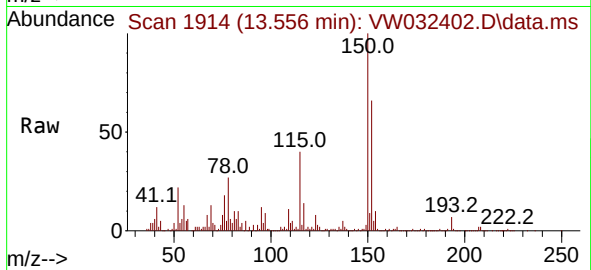
Tgt Ion:152 Resp: 270773

Ion Ratio Lower Upper

152 100

115 63.3 31.8 95.4

150 151.4 0.0 343.0



#75

1,1,2,2-Tetrachloroethane

Concen: 65.154 ug/l

RT: 12.611 min Scan# 1759

Delta R.T. -0.104 min

Lab File: VW032402.D

Acq: 20 Oct 2025 20:04

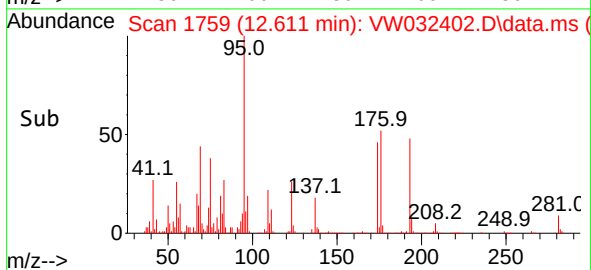
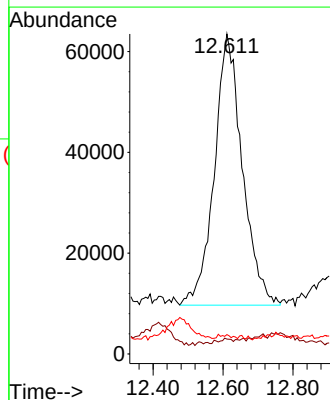
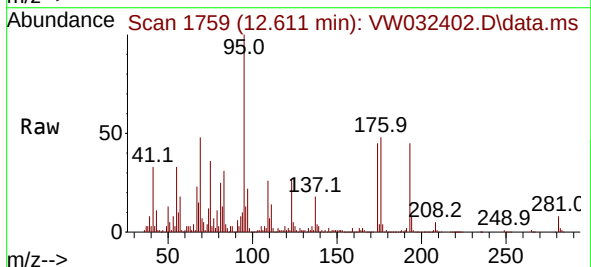
Tgt Ion: 83 Resp: 299691

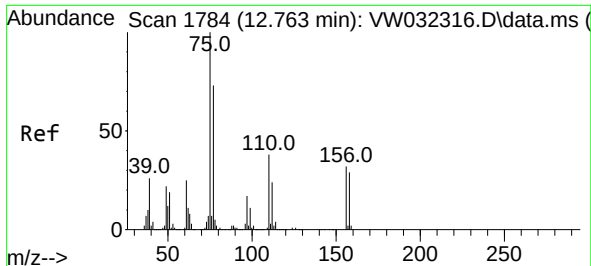
Ion Ratio Lower Upper

83 100

131 0.4 5.1 15.4#

85 0.0 32.2 96.6#

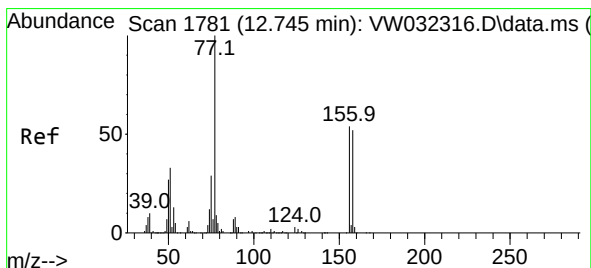
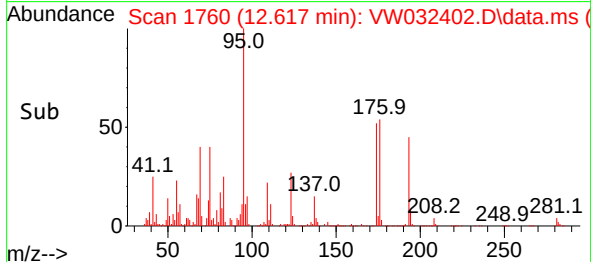
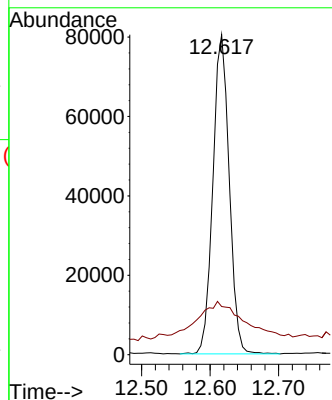
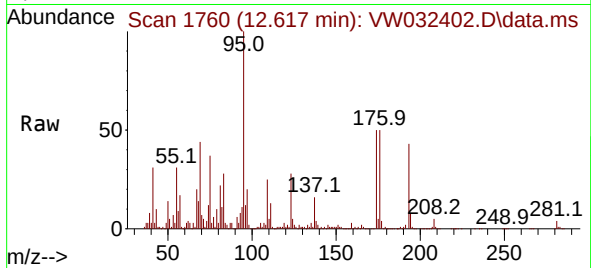




#76
1,2,3-Trichloropropane
Concen: 37.416 ug/l
RT: 12.617 min Scan# 11
Delta R.T. -0.146 min
Lab File: VW032402.D
Acq: 20 Oct 2025 20:04

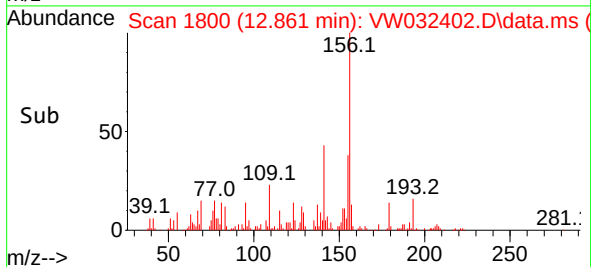
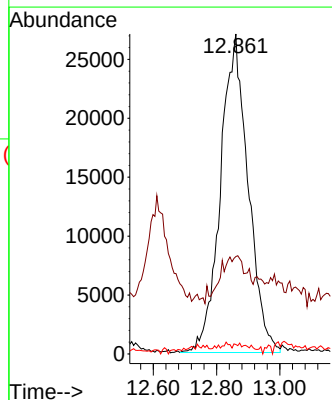
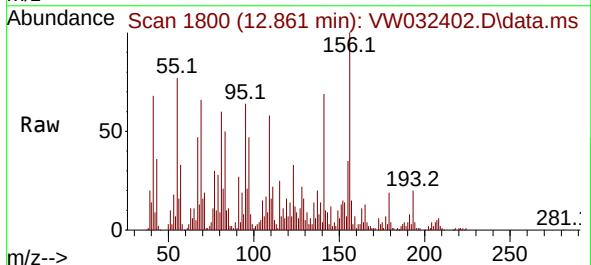
Instrument :
MSVOA_W
ClientSampleId :
VIBLK

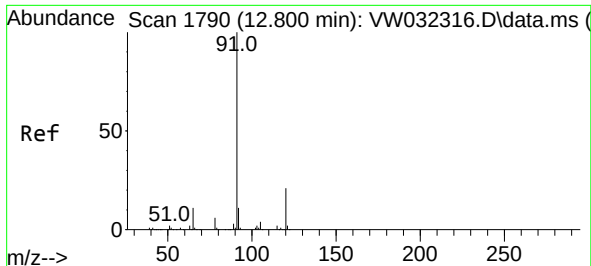
Tgt Ion: 75 Resp: 133323
Ion Ratio Lower Upper
75 100
77 32.3 141.7 425.1#



#77
Bromobenzene
Concen: 36.696 ug/l
RT: 12.861 min Scan# 1800
Delta R.T. 0.116 min
Lab File: VW032402.D
Acq: 20 Oct 2025 20:04

Tgt Ion:156 Resp: 163867
Ion Ratio Lower Upper
156 100
77 4.9 98.6 295.7#
158 0.2 48.4 145.0#

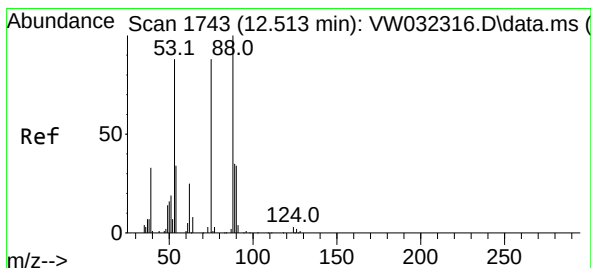
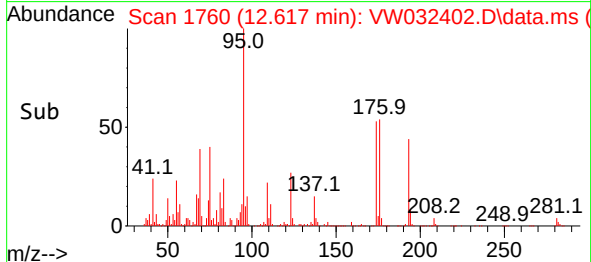
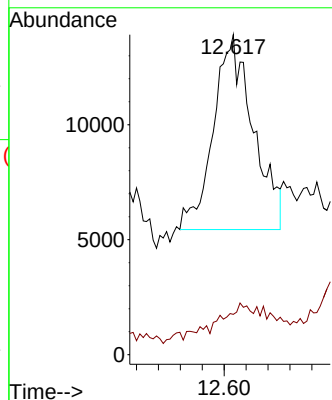
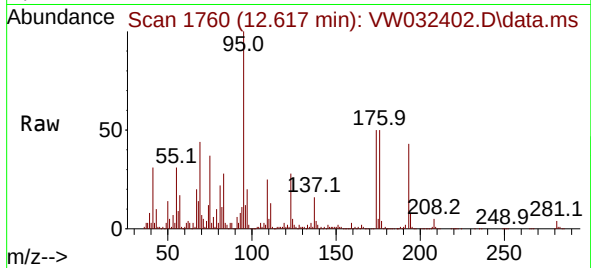




#78
n-propylbenzene
Concen: 1.843 ug/l
RT: 12.617 min Scan# 1760
Delta R.T. -0.183 min
Lab File: VW032402.D
Acq: 20 Oct 2025 20:04

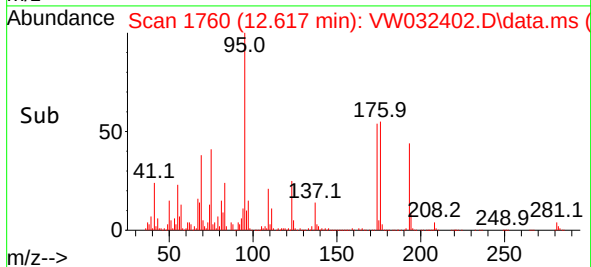
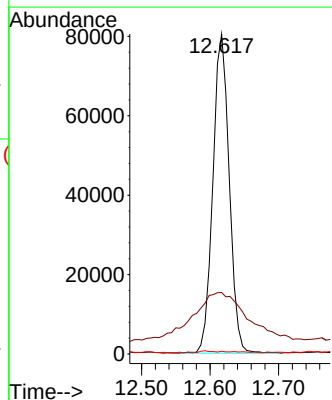
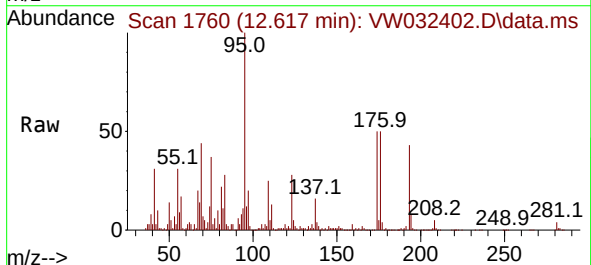
Instrument :
MSVOA_W
ClientSampleId :
VIBLK

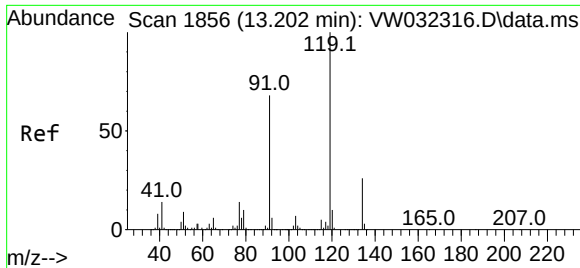
Tgt Ion: 91 Resp: 42643
Ion Ratio Lower Upper
91 100
120 15.8 11.8 35.4



#81
trans-1,4-Dichloro-2-butene
Concen: 94.786 ug/l
RT: 12.617 min Scan# 1760
Delta R.T. 0.103 min
Lab File: VW032402.D
Acq: 20 Oct 2025 20:04

Tgt Ion: 75 Resp: 133323
Ion Ratio Lower Upper
75 100
53 52.5 91.0 136.6#
89 0.0 39.4 59.2#





#83
 tert-Butylbenzene
 Concen: 2.136 ug/l
 RT: 13.141 min Scan# 11
 Delta R.T. -0.061 min
 Lab File: VW032402.D
 Acq: 20 Oct 2025 20:04

Instrument :
 MSVOA_W
 ClientSampleId :
 VIBLK

Tgt Ion:	119	Resp:	28072
Ion	Ratio	Lower	Upper
119	100		
91	9.7	33.8	101.3#
134	0.0	12.5	37.5#

