

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW100625\
 Data File : VW032357.D
 Acq On : 06 Oct 2025 14:27
 Operator : SY/MD
 Sample : Q3288-01
 Misc : 5.13g/5mL/MSVOA_W/SOIL/A
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :

Quant Time: Oct 07 03:46:19 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)

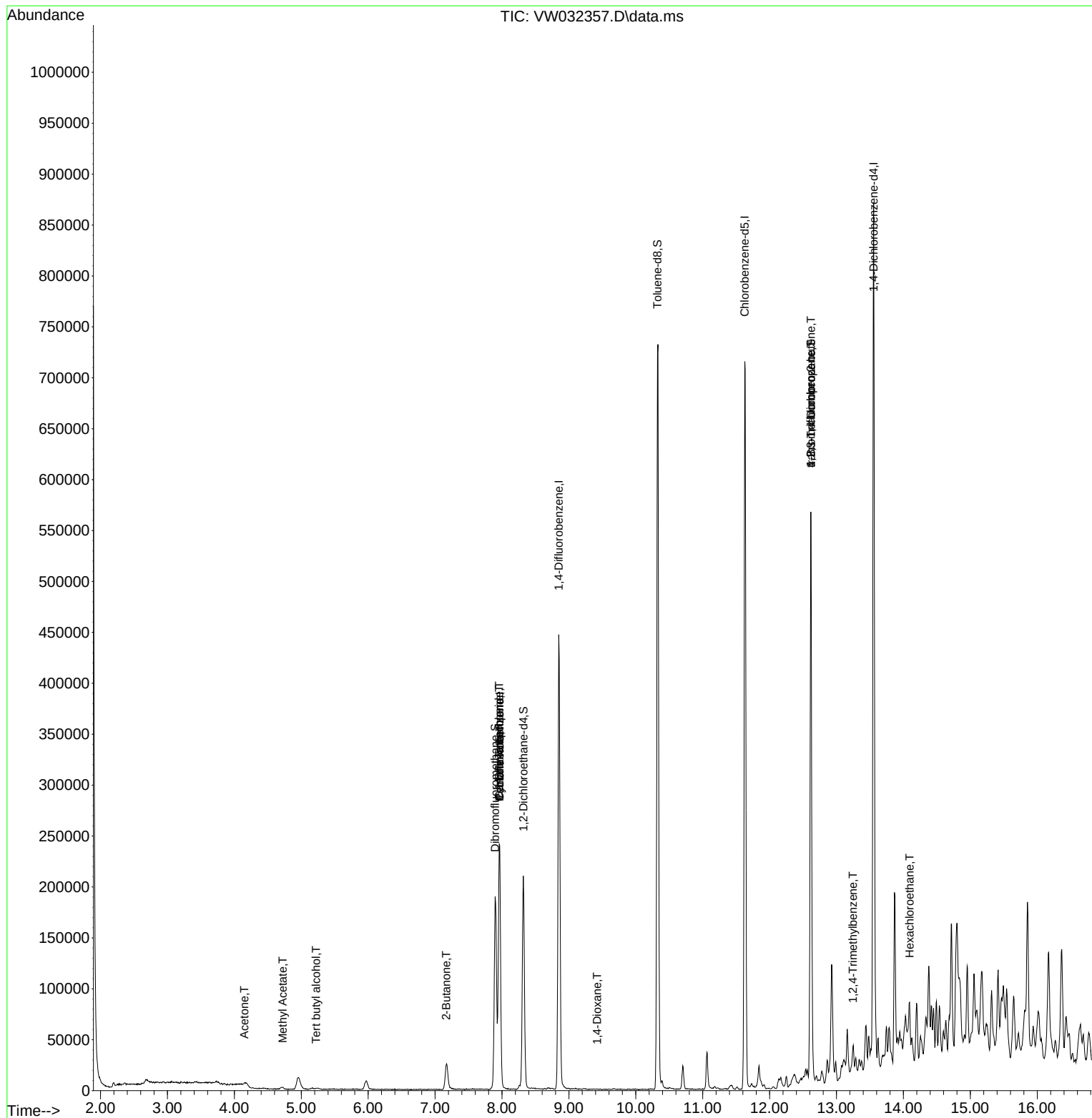
Internal Standards						
1) Pentafluorobenzene	7.965	168	168942	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.849	114	364127	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.629	117	390166	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.556	152	210461	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.319	65	170319	69.120	ug/l	0.00
Spiked Amount	50.000	Range 63 - 155	Recovery	= 138.240%		
35) Dibromofluoromethane	7.898	113	142869	60.586	ug/l	0.00
Spiked Amount	50.000	Range 70 - 134	Recovery	= 121.180%		
50) Toluene-d8	10.325	98	494078	56.769	ug/l	0.00
Spiked Amount	50.000	Range 74 - 123	Recovery	= 113.540%		
62) 4-Bromofluorobenzene	12.617	95	191083	58.088	ug/l	0.00
Spiked Amount	50.000	Range 17 - 146	Recovery	= 116.180%		
Target Compounds						
					Qvalue	
11) Tert butyl alcohol	5.222	59	501	2.686	ug/l #	70
16) Acetone	4.149	43	1317	1.930	ug/l #	81
18) Methyl Acetate	4.722	43	4250	2.174	ug/l	97
20) Methylene Chloride	4.954	84	10576	Below Cal		87
25) 2-Butanone	7.167	43	1833	1.973	ug/l #	73
31) Cyclohexane	7.965	56	4543	1.310	ug/l #	8
36) 1,1-Dichloropropene	7.959	75	16460	4.946	ug/l #	51
38) Carbon Tetrachloride	7.959	117	19542	6.240	ug/l #	19
49) 1,4-Dioxane	9.422	88	22	1.005	ug/l #	1
76) 1,2,3-Trichloropropane	12.617	75	100218	36.185	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.617	75	100218	91.668	ug/l #	5
84) 1,2,4-Trimethylbenzene	13.245	105	17035	1.346	ug/l	100
90) Hexachloroethane	14.092	117	2407	1.037	ug/l #	17

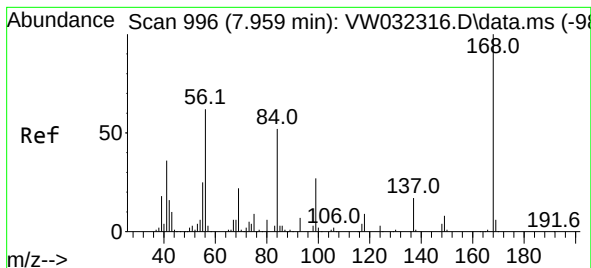
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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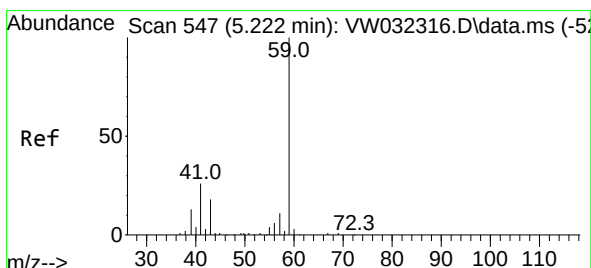
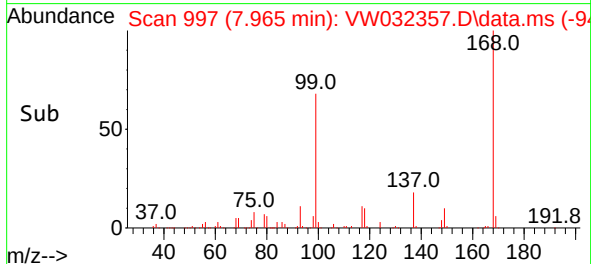
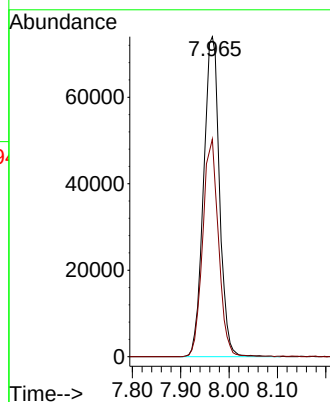
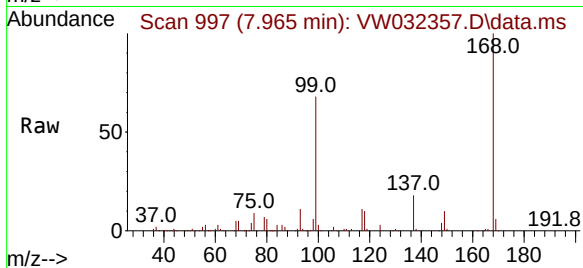




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.965 min Scan# 996
Delta R.T. 0.000 min
Lab File: VW032357.D
Acq: 06 Oct 2025 14:27

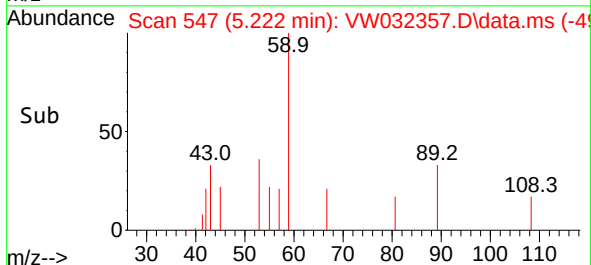
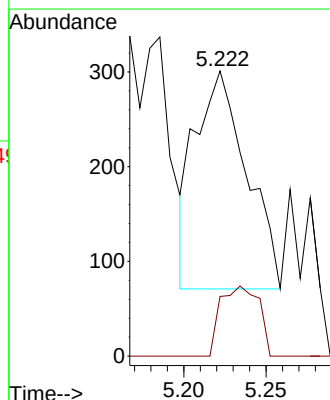
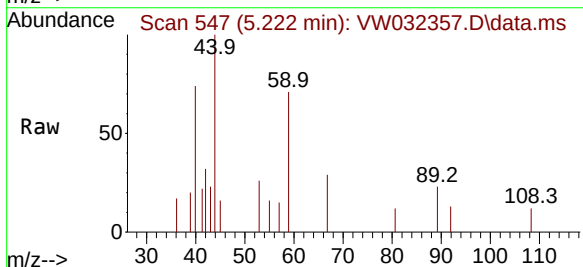
Instrument :
MSVOA_W
ClientSampleId :

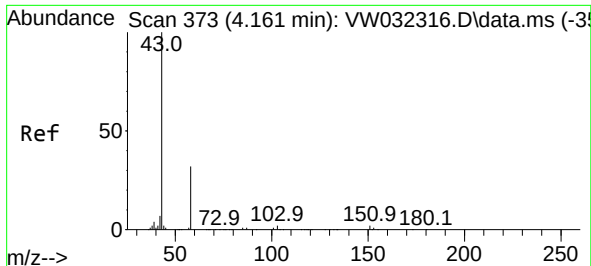
Tgt Ion:168 Resp: 168942
Ion Ratio Lower Upper
168 100
99 68.0 49.3 73.9



#11
Tert butyl alcohol
Concen: 2.686 ug/l
RT: 5.222 min Scan# 547
Delta R.T. 0.000 min
Lab File: VW032357.D
Acq: 06 Oct 2025 14:27

Tgt Ion: 59 Resp: 501
Ion Ratio Lower Upper
59 100
57 24.0 9.8 14.6#

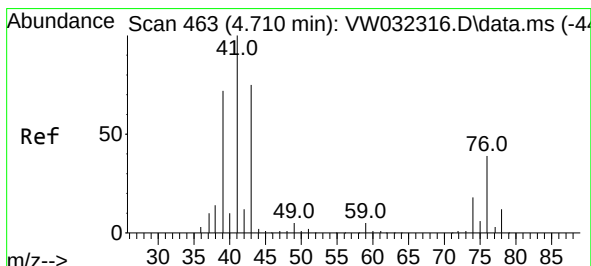
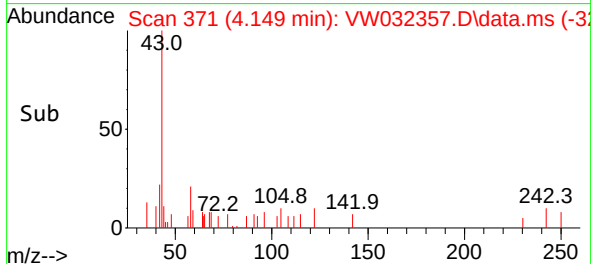
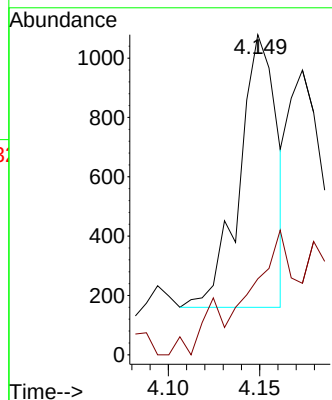
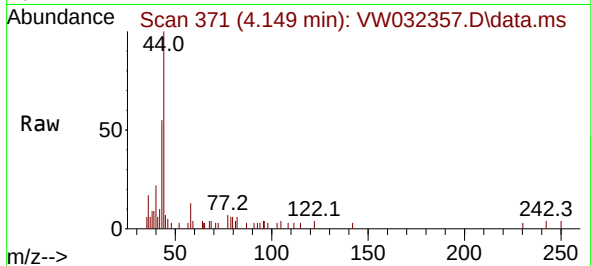




#16
Acetone
Concen: 1.930 ug/l
RT: 4.149 min Scan# 31
Delta R.T. -0.012 min
Lab File: VW032357.D
Acq: 06 Oct 2025 14:27

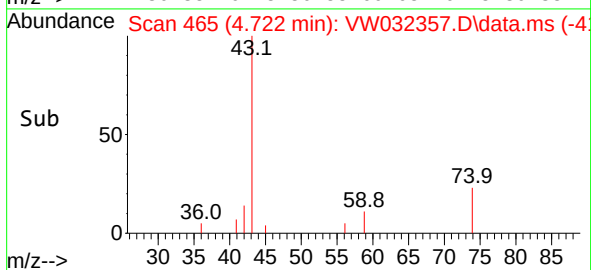
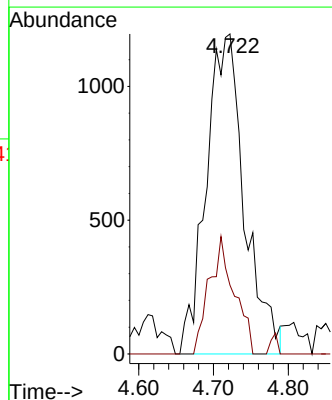
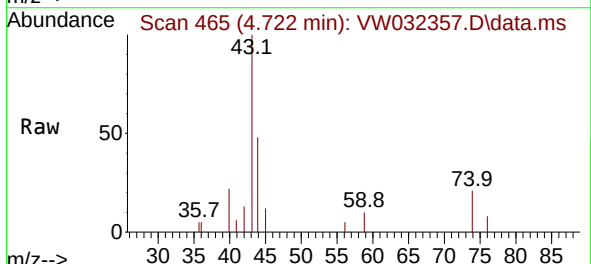
Instrument :
MSVOA_W
ClientSampleId :

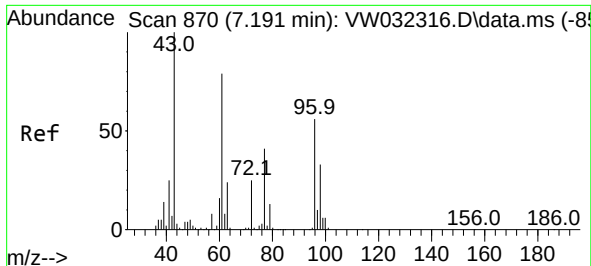
Tgt Ion: 43 Resp: 1317
Ion Ratio Lower Upper
43 100
58 21.2 25.3 37.9#



#18
Methyl Acetate
Concen: 2.174 ug/l
RT: 4.722 min Scan# 465
Delta R.T. 0.012 min
Lab File: VW032357.D
Acq: 06 Oct 2025 14:27

Tgt Ion: 43 Resp: 4250
Ion Ratio Lower Upper
43 100
74 24.0 20.2 30.4

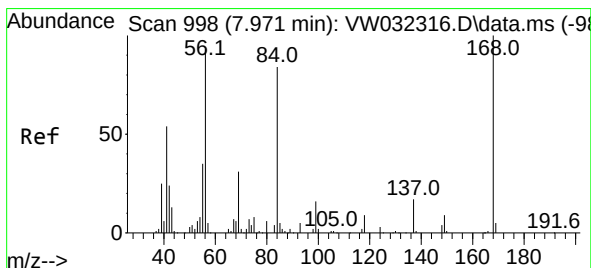
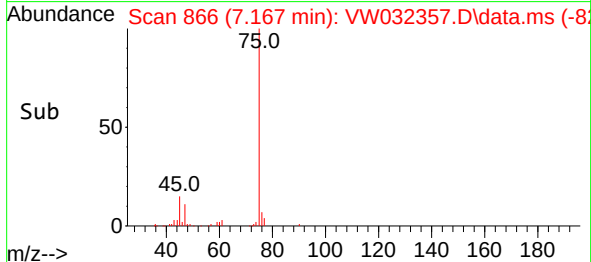
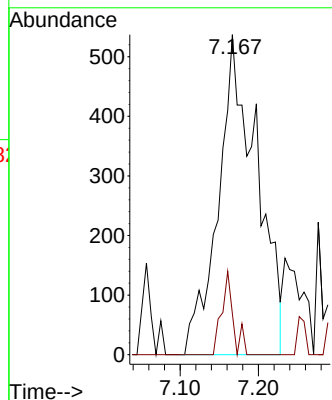
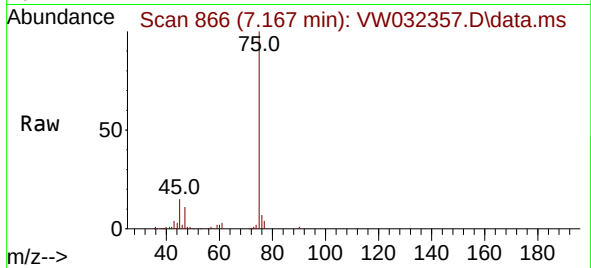




#25
2-Butanone
Concen: 1.973 ug/l
RT: 7.167 min Scan# 866
Delta R.T. -0.024 min
Lab File: VW032357.D
Acq: 06 Oct 2025 14:27

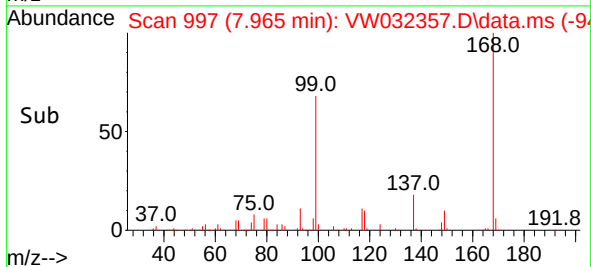
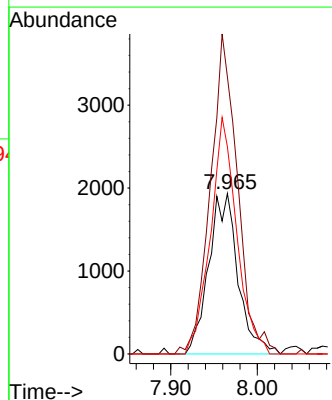
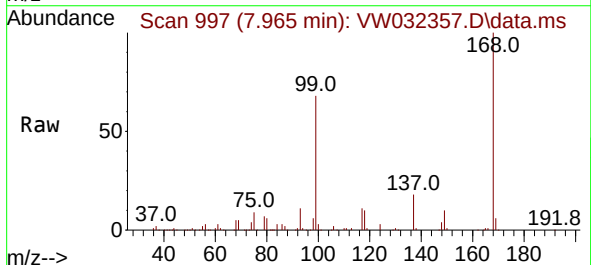
Instrument :
MSVOA_W
ClientSampleId :

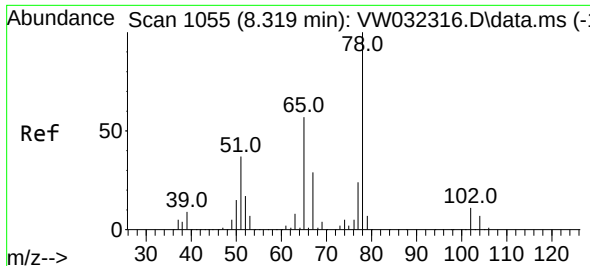
Tgt Ion: 43 Resp: 1833
Ion Ratio Lower Upper
43 100
72 12.8 21.4 32.2#



#31
Cyclohexane
Concen: 1.310 ug/l
RT: 7.965 min Scan# 997
Delta R.T. -0.006 min
Lab File: VW032357.D
Acq: 06 Oct 2025 14:27

Tgt Ion: 56 Resp: 4543
Ion Ratio Lower Upper
56 100
69 172.6 27.7 41.5#
84 129.1 74.6 112.0#

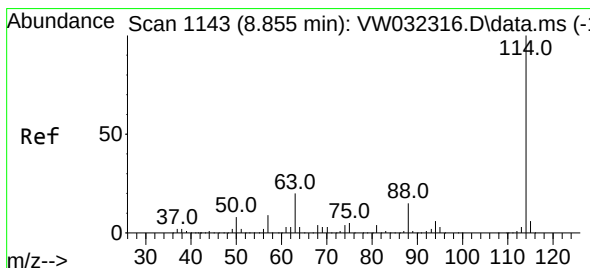
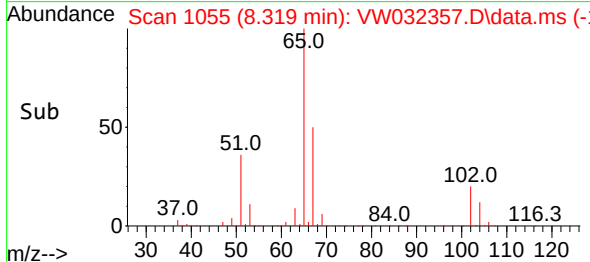
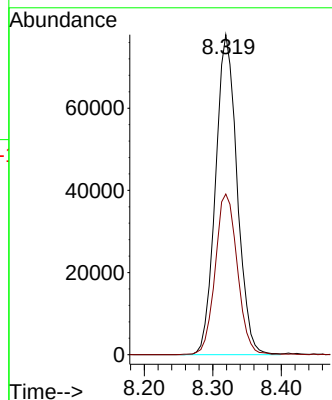
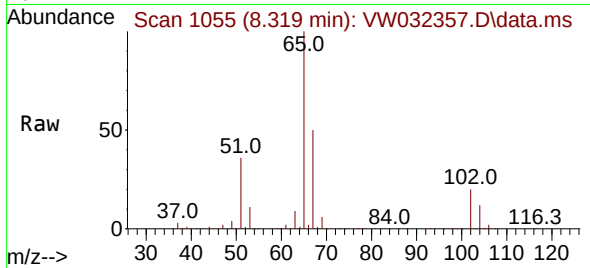




#33
 1,2-Dichloroethane-d4
 Concen: 69.120 ug/l
 RT: 8.319 min Scan# 1055
 Delta R.T. -0.000 min
 Lab File: VW032357.D
 Acq: 06 Oct 2025 14:27

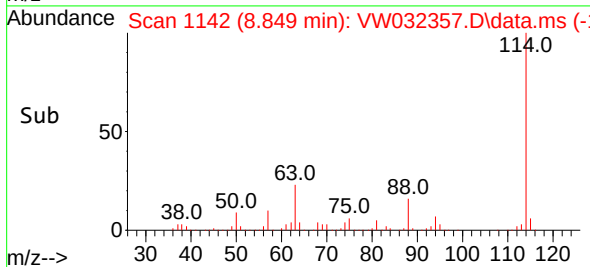
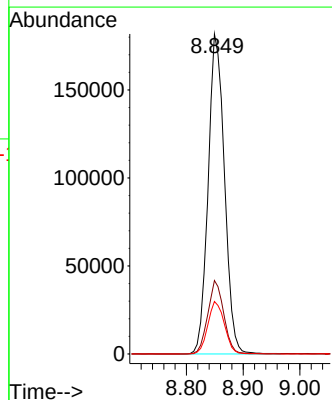
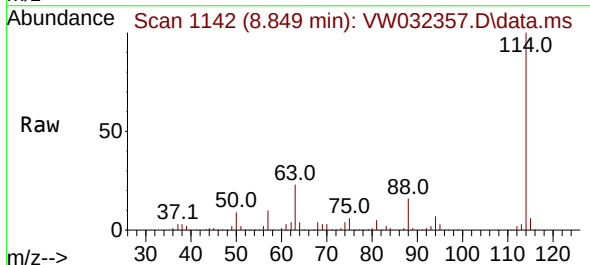
Instrument :
 MSVOA_W
 ClientSampleId :

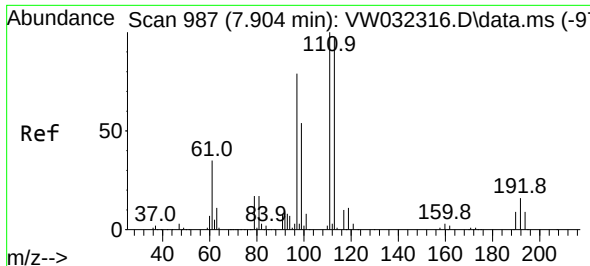
Tgt Ion: 65 Resp: 170319
 Ion Ratio Lower Upper
 65 100
 67 51.5 0.0 99.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.849 min Scan# 1142
 Delta R.T. -0.006 min
 Lab File: VW032357.D
 Acq: 06 Oct 2025 14:27

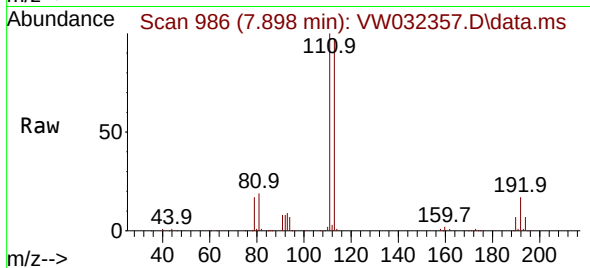
Tgt Ion: 114 Resp: 364127
 Ion Ratio Lower Upper
 114 100
 63 23.0 0.0 40.4
 88 16.4 0.0 32.0



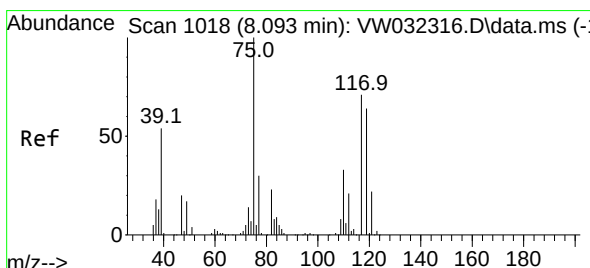
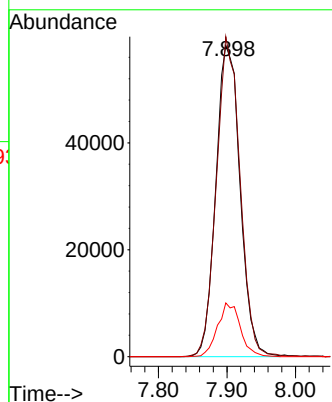
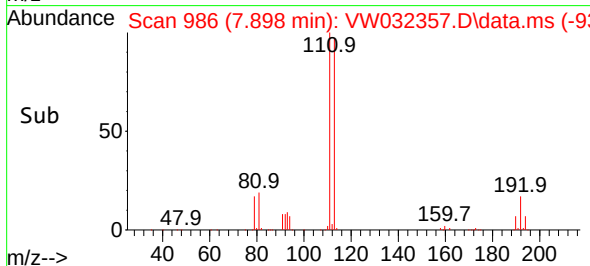


#35
Dibromofluoromethane
Concen: 60.586 ug/l
RT: 7.898 min Scan# 991
Delta R.T. -0.006 min
Lab File: VW032357.D
Acq: 06 Oct 2025 14:27

Instrument :
MSVOA_W
ClientSampleId :

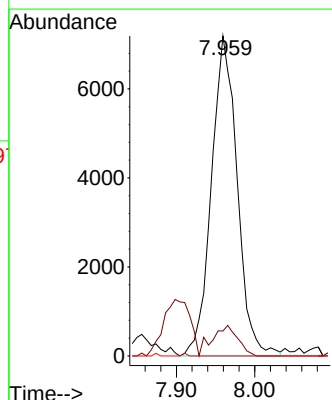
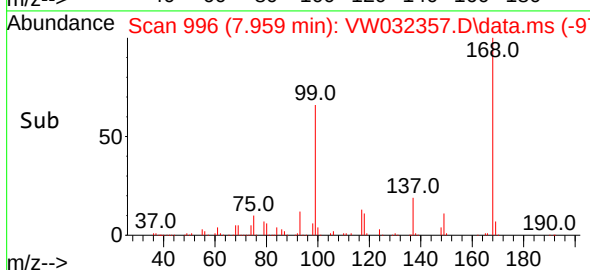
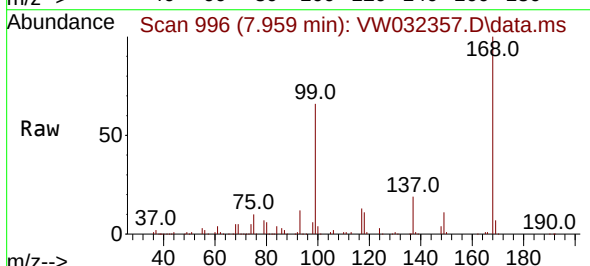


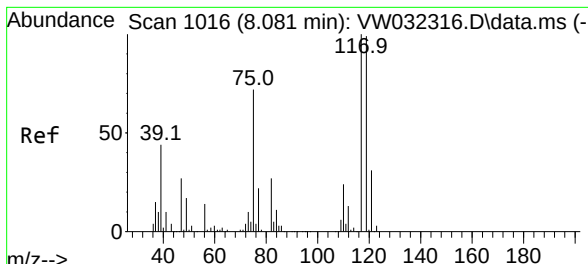
Tgt Ion:113 Resp: 142869
Ion Ratio Lower Upper
113 100
111 100.3 83.9 125.9
192 16.2 14.6 21.8



#36
1,1-Dichloropropene
Concen: 4.946 ug/l
RT: 7.959 min Scan# 996
Delta R.T. -0.140 min
Lab File: VW032357.D
Acq: 06 Oct 2025 14:27

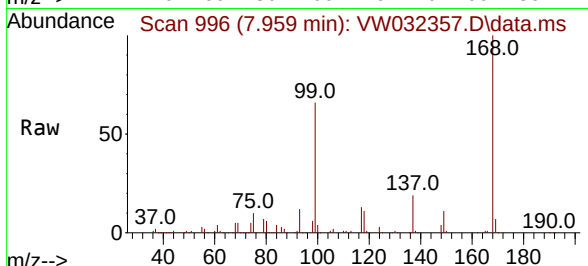
Tgt Ion: 75 Resp: 16460
Ion Ratio Lower Upper
75 100
110 9.4 17.5 52.5#
77 0.0 24.1 36.1#



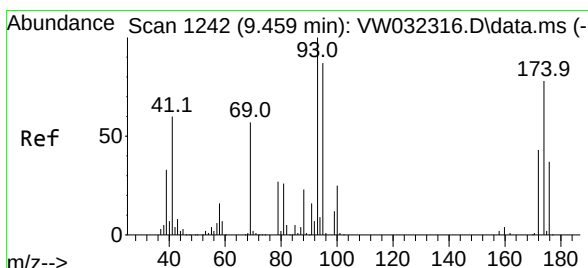
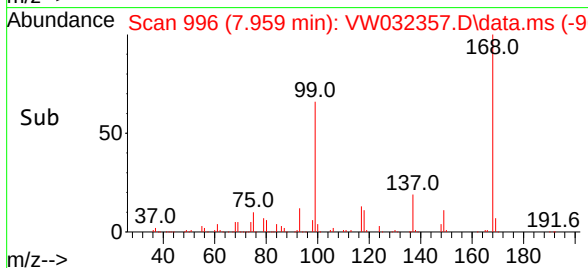
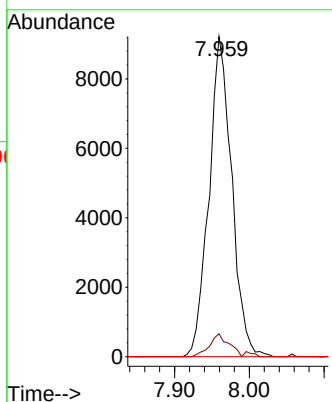


#38
Carbon Tetrachloride
Concen: 6.240 ug/l
RT: 7.959 min Scan# 91
Delta R.T. -0.128 min
Lab File: VW032357.D
Acq: 06 Oct 2025 14:27

Instrument :
MSVOA_W
ClientSampleId :

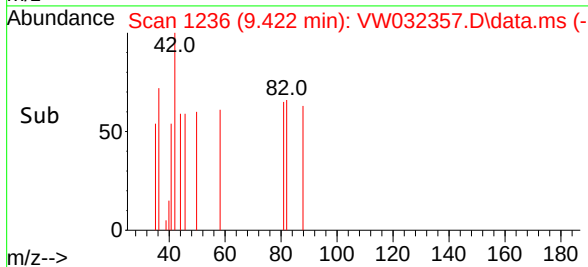
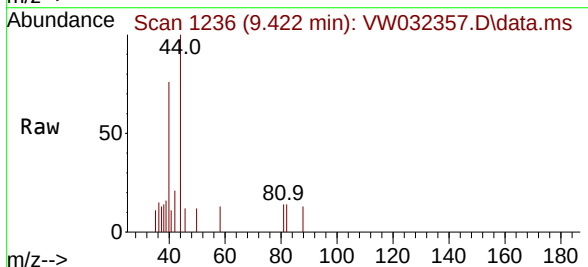
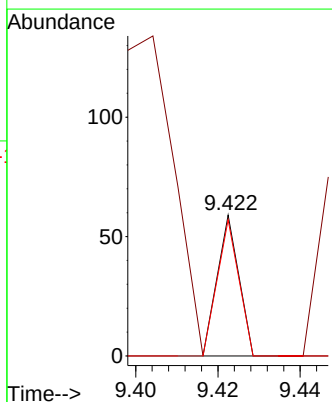


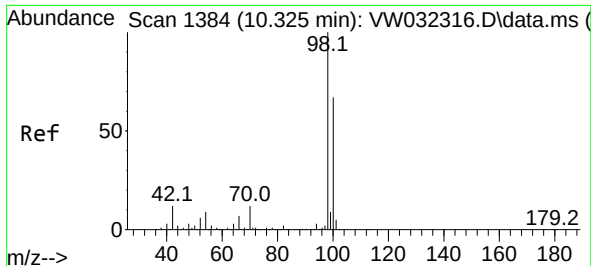
Tgt Ion:117 Resp: 19542
Ion Ratio Lower Upper
117 100
119 7.1 74.2 111.2#
121 0.0 25.6 38.4#



#49
1,4-Dioxane
Concen: 1.005 ug/l
RT: 9.422 min Scan# 1236
Delta R.T. -0.037 min
Lab File: VW032357.D
Acq: 06 Oct 2025 14:27

Tgt Ion: 88 Resp: 22
Ion Ratio Lower Upper
88 100
43 700.0 18.0 27.0#
58 95.5 55.4 83.0#

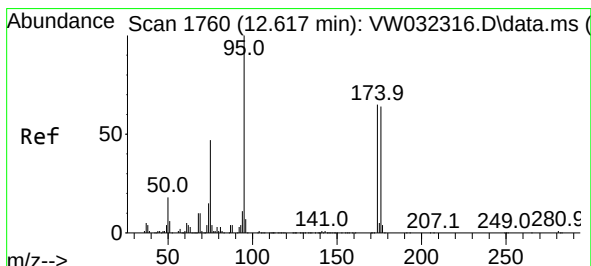
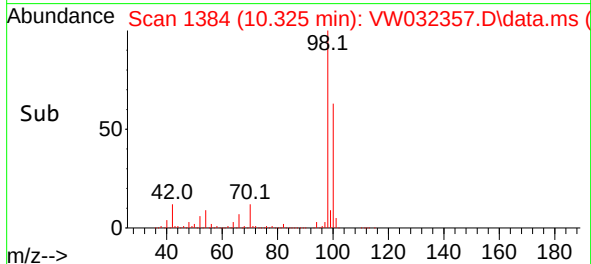
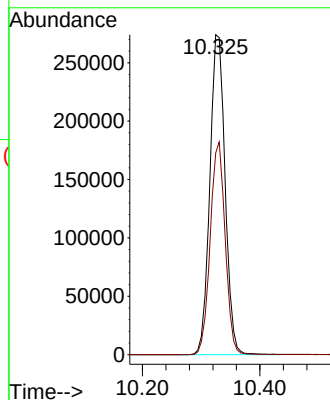
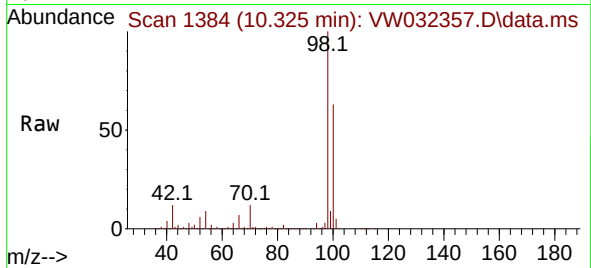




#50
Toluene-d8
Concen: 56.769 ug/l
RT: 10.325 min Scan# 11
Delta R.T. 0.000 min
Lab File: VW032357.D
Acq: 06 Oct 2025 14:27

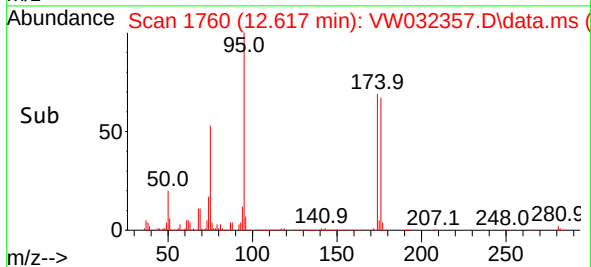
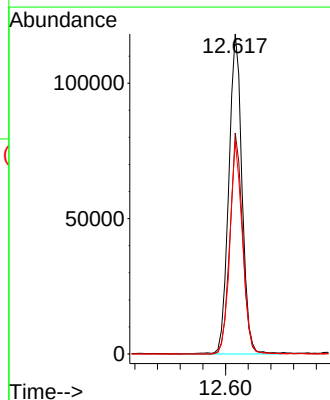
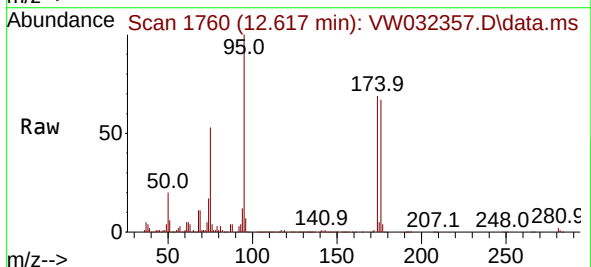
Instrument :
MSVOA_W
ClientSampleId :

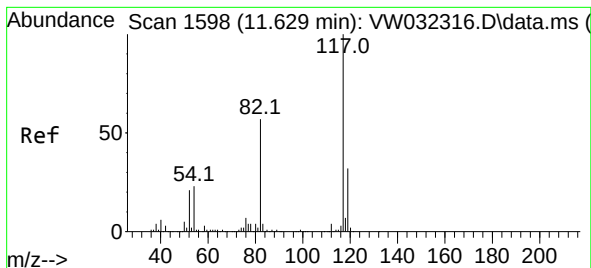
Tgt Ion: 98 Resp: 494078
Ion Ratio Lower Upper
98 100
100 65.2 51.4 77.2



#62
4-Bromofluorobenzene
Concen: 58.088 ug/l
RT: 12.617 min Scan# 1760
Delta R.T. 0.000 min
Lab File: VW032357.D
Acq: 06 Oct 2025 14:27

Tgt Ion: 95 Resp: 191083
Ion Ratio Lower Upper
95 100
174 66.0 0.0 145.6
176 63.2 0.0 140.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.629 min Scan# 11

Delta R.T. -0.000 min

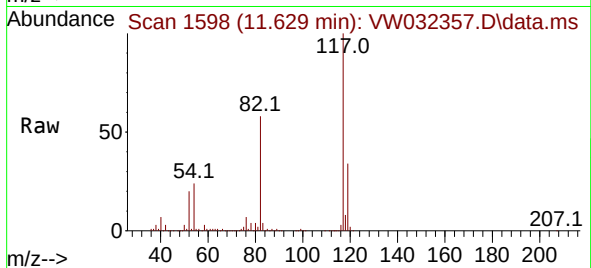
Lab File: VW032357.D

Acq: 06 Oct 2025 14:27

Instrument :

MSVOA_W

ClientSampleId :



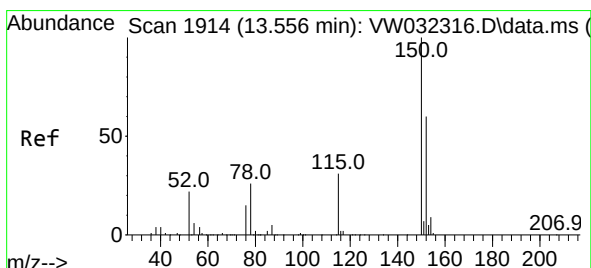
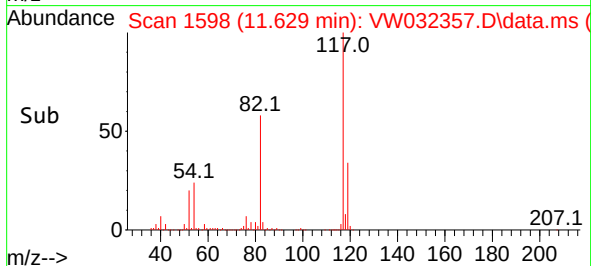
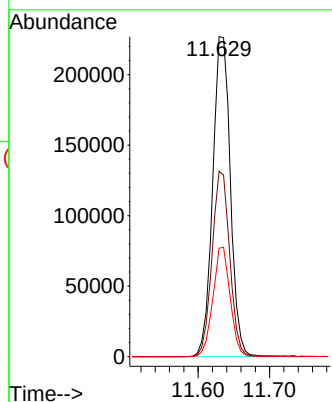
Tgt Ion:117 Resp: 390166

Ion Ratio Lower Upper

117 100

82 57.9 42.7 64.1

119 33.9 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: VW032357.D

Acq: 06 Oct 2025 14:27

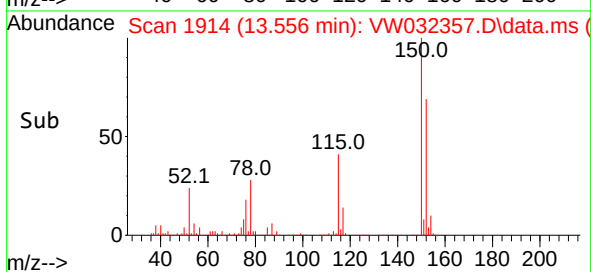
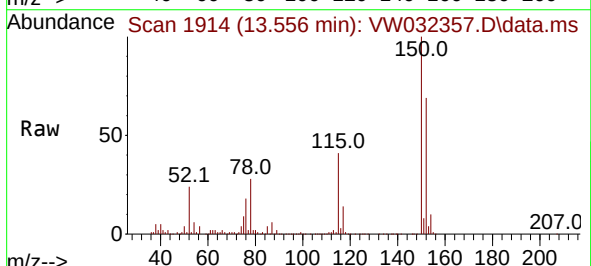
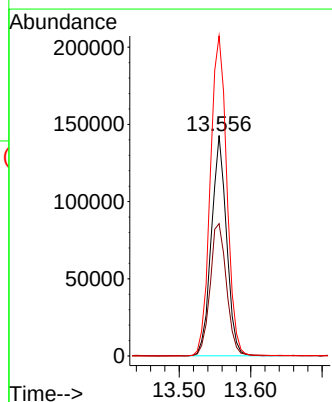
Tgt Ion:152 Resp: 210461

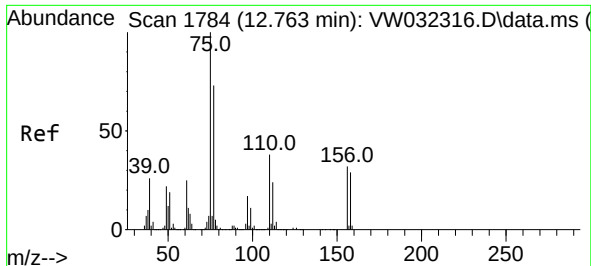
Ion Ratio Lower Upper

152 100

115 64.8 31.8 95.4

150 157.9 0.0 343.0

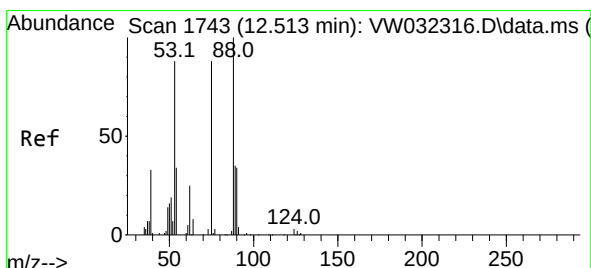
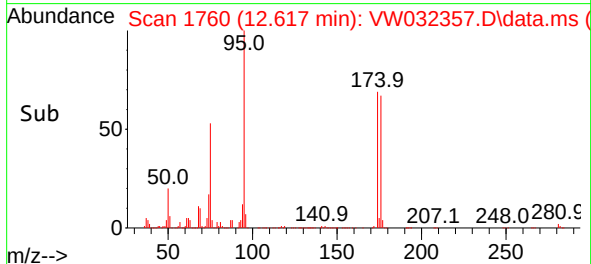
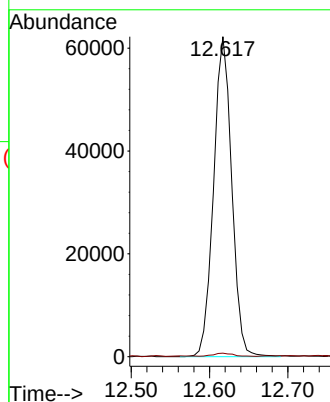
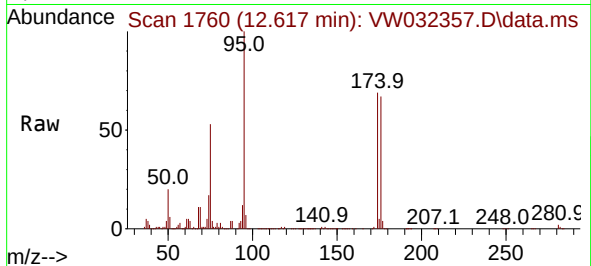




#76
1,2,3-Trichloropropane
Concen: 36.185 ug/l
RT: 12.617 min Scan# 1760
Delta R.T. -0.146 min
Lab File: VW032357.D
Acq: 06 Oct 2025 14:27

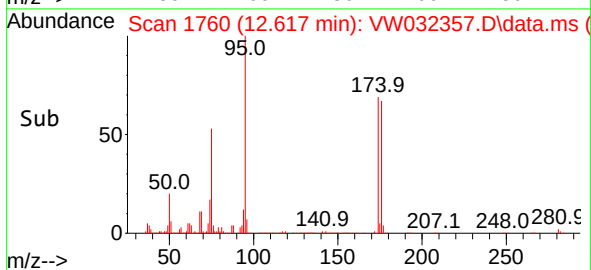
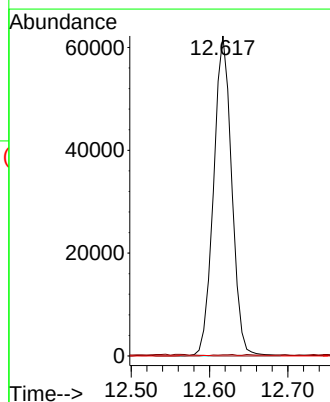
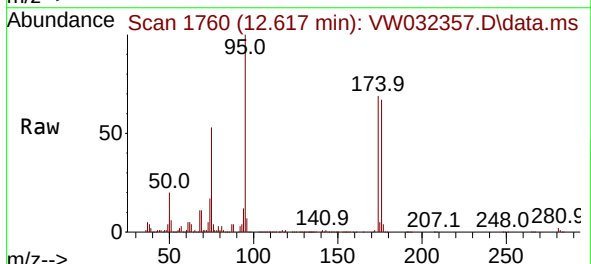
Instrument :
MSVOA_W
ClientSampleId :

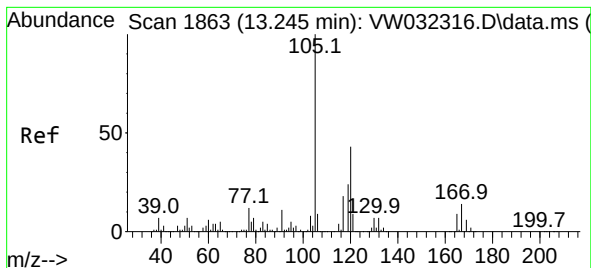
Tgt Ion: 75 Resp: 100218
Ion Ratio Lower Upper
75 100
77 1.2 141.7 425.1#



#81
trans-1,4-Dichloro-2-butene
Concen: 91.668 ug/l
RT: 12.617 min Scan# 1760
Delta R.T. 0.104 min
Lab File: VW032357.D
Acq: 06 Oct 2025 14:27

Tgt Ion: 75 Resp: 100218
Ion Ratio Lower Upper
75 100
53 0.3 91.0 136.6#
89 0.0 39.4 59.2#





#84

1,2,4-Trimethylbenzene

Concen: 1.346 ug/l

RT: 13.245 min Scan# 11

Delta R.T. 0.000 min

Lab File: VW032357.D

Acq: 06 Oct 2025 14:27

Instrument :

MSVOA_W

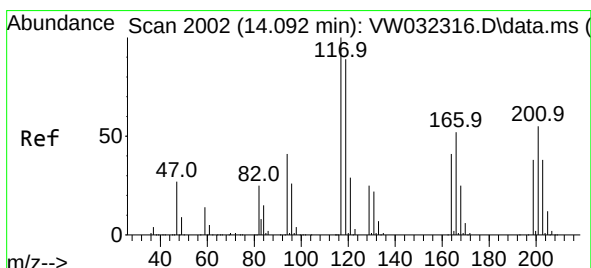
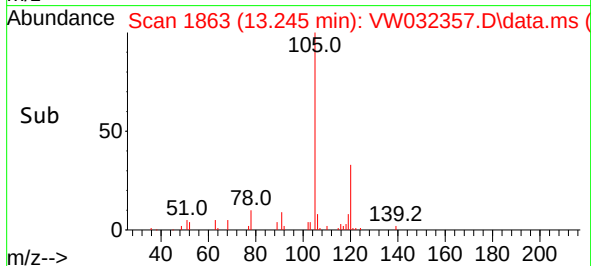
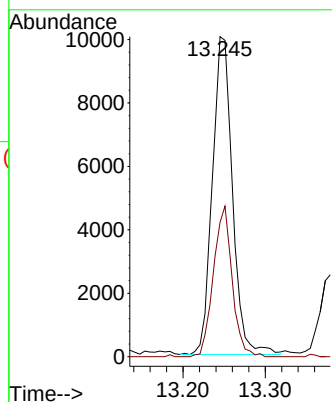
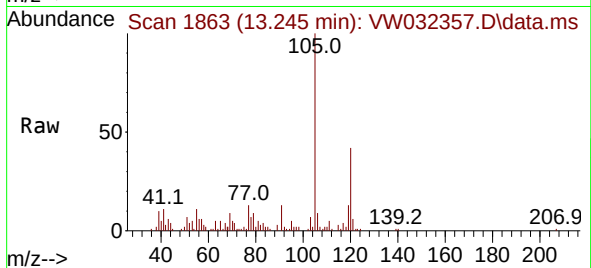
ClientSampleId :

Tgt Ion:105 Resp: 17035

Ion Ratio Lower Upper

105 100

120 44.2 22.1 66.3



#90

Hexachloroethane

Concen: 1.037 ug/l

RT: 14.092 min Scan# 2002

Delta R.T. 0.006 min

Lab File: VW032357.D

Acq: 06 Oct 2025 14:27

Tgt Ion:117 Resp: 2407

Ion Ratio Lower Upper

117 100

201 0.0 32.8 98.4#

