

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW112625\
 Data File : VW032555.D
 Acq On : 26 Nov 2025 19:23
 Operator : SY/MD
 Sample : Q3719-14
 Misc : 4.27g/5mL/MSVOA_W/SOIL/A
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :

Quant Time: Nov 27 00:32:31 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)

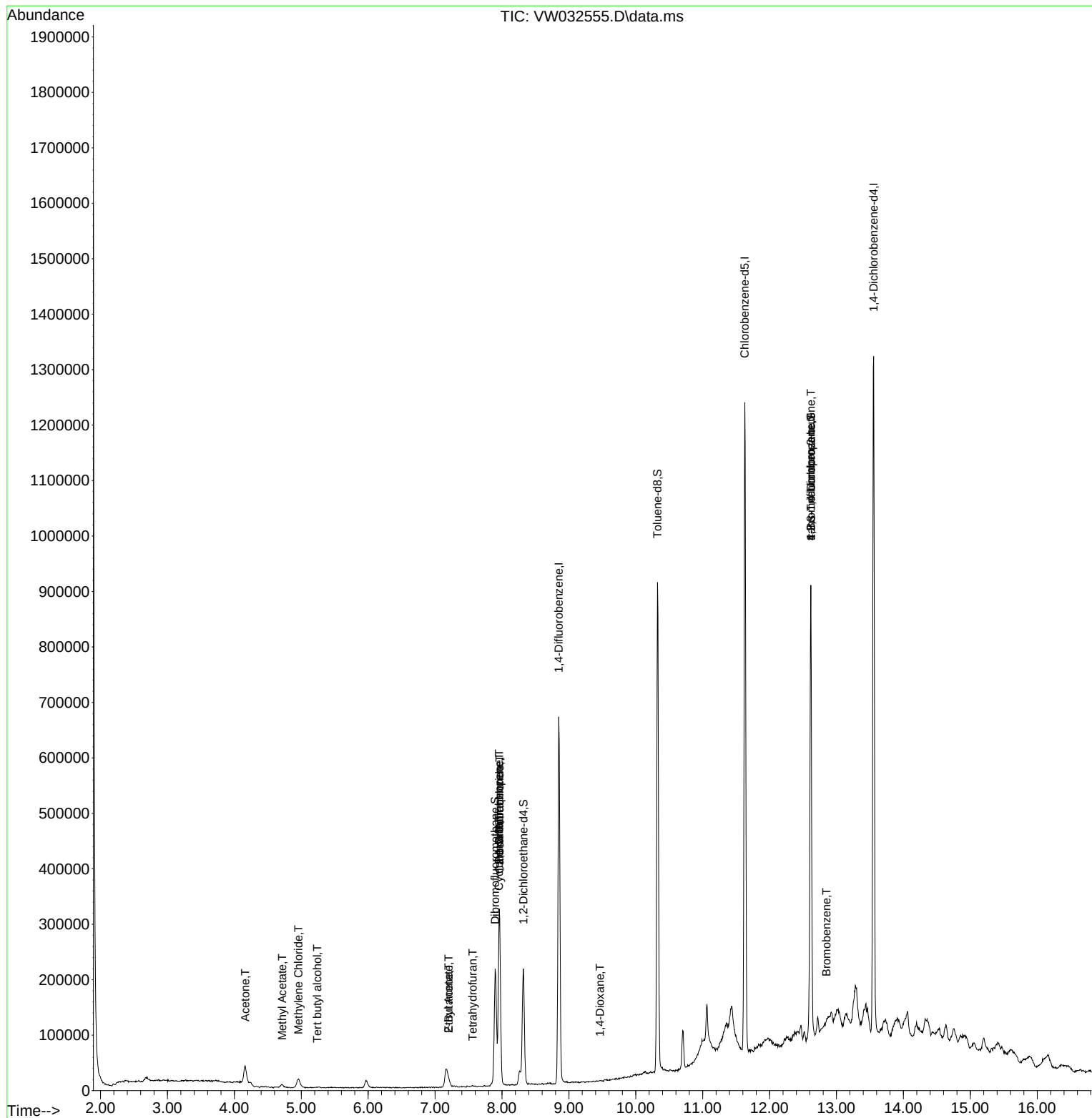
Internal Standards						
1) Pentafluorobenzene	7.959	168	212464	50.000	ug/l	# 0.00
34) 1,4-Difluorobenzene	8.849	114	543417	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.629	117	642461	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.556	152	328212	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.319	65	169877	62.018	ug/l	0.00
Spiked Amount	50.000	Range	63 - 155	Recovery	= 124.040%	
35) Dibromofluoromethane	7.898	113	156833	48.203	ug/l	0.00
Spiked Amount	50.000	Range	70 - 134	Recovery	= 96.400%	
50) Toluene-d8	10.324	98	568078	45.513	ug/l	0.00
Spiked Amount	50.000	Range	74 - 123	Recovery	= 91.020%	
62) 4-Bromofluorobenzene	12.617	95	281208	59.640	ug/l	0.00
Spiked Amount	50.000	Range	17 - 146	Recovery	= 119.280%	
Target Compounds						
						Qvalue
11) Tert butyl alcohol	5.240	59	1323	5.586	ug/l	100
16) Acetone	4.161	43	57001	69.557	ug/l	91
18) Methyl Acetate	4.716	43	11510	5.672	ug/l	97
20) Methylene Chloride	4.960	84	14518	4.954	ug/l	94
25) 2-Butanone	7.203	43	22298	18.469	ug/l #	87
29) Tetrahydrofuran	7.563	42	1153	1.505	ug/l #	82
31) Cyclohexane	7.953	56	6619	1.461	ug/l #	20
36) 1,1-Dichloropropene	7.959	75	21867	4.562	ug/l #	51
37) Ethyl Acetate	7.203	43	22298	6.255	ug/l #	70
38) Carbon Tetrachloride	7.965	117	24264	5.696	ug/l #	17
49) 1,4-Dioxane	9.465	88	58	1.843	ug/l #	1
76) 1,2,3-Trichloropropane	12.617	75	142420	31.647	ug/l #	1
77) Bromobenzene	12.848	156	32871	5.760	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.617	75	142420	72.485	ug/l #	11

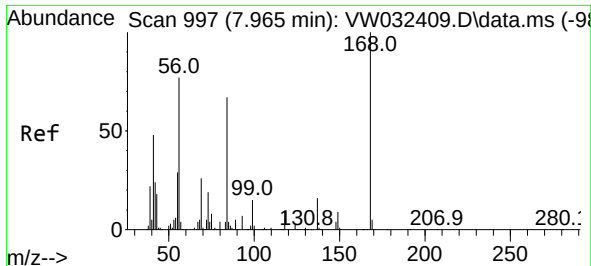
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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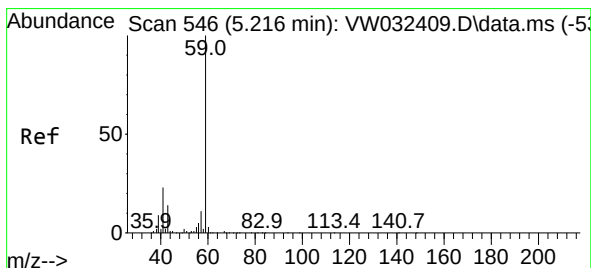
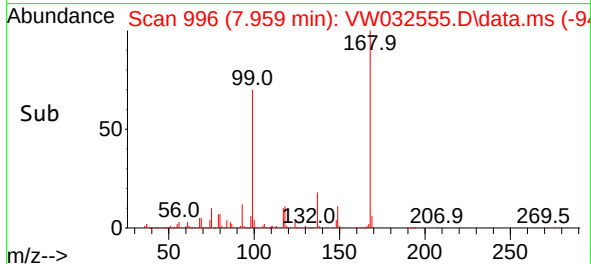
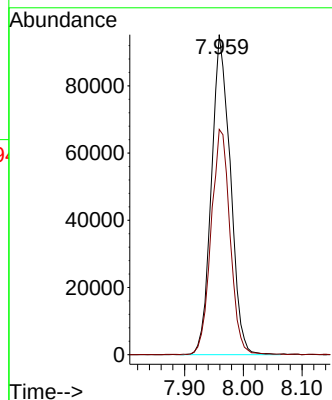
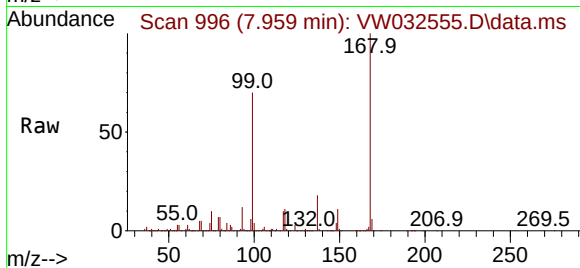




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.959 min Scan# 997
Delta R.T. -0.006 min
Lab File: VW032555.D
Acq: 26 Nov 2025 19:23

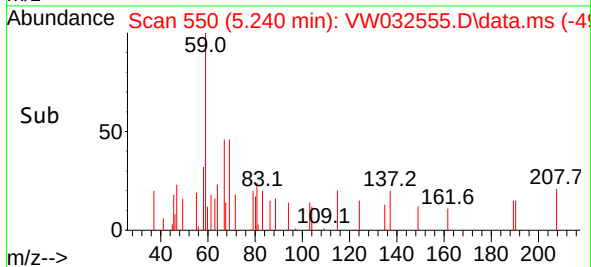
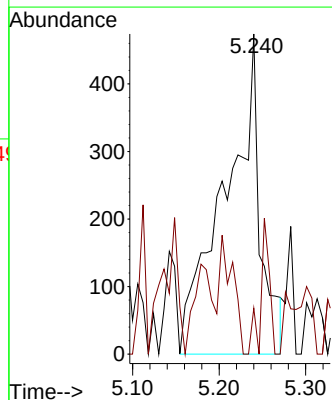
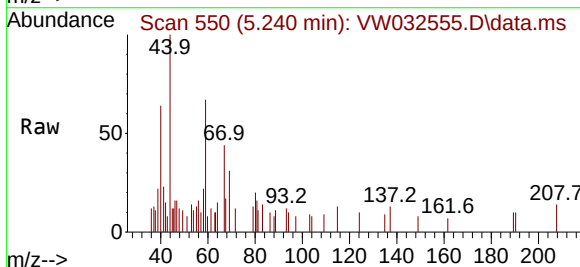
Instrument :
MSVOA_W
ClientSampleId :

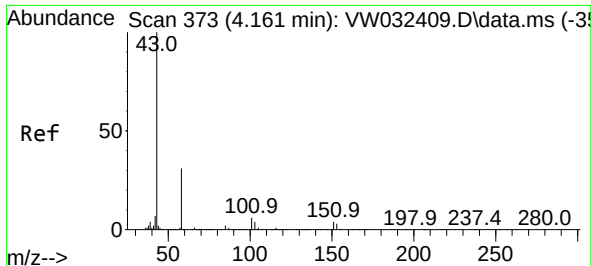
Tgt Ion:168 Resp: 212464
Ion Ratio Lower Upper
168 100
99 70.3 45.4 68.2#



#11
Tert butyl alcohol
Concen: 5.586 ug/l
RT: 5.240 min Scan# 550
Delta R.T. 0.024 min
Lab File: VW032555.D
Acq: 26 Nov 2025 19:23

Tgt Ion: 59 Resp: 1323
Ion Ratio Lower Upper
59 100
57 10.7 8.6 12.8

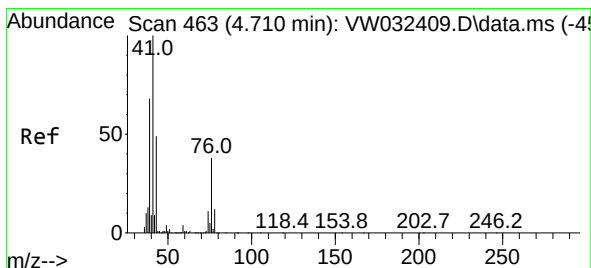
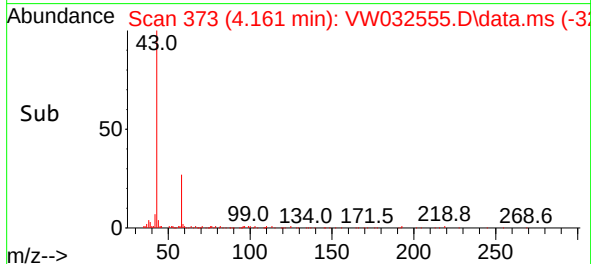
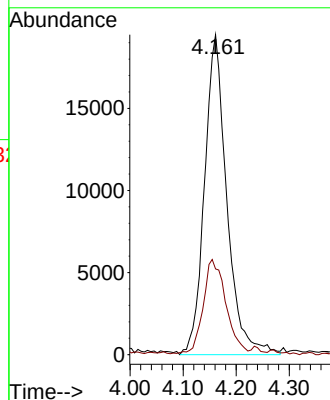
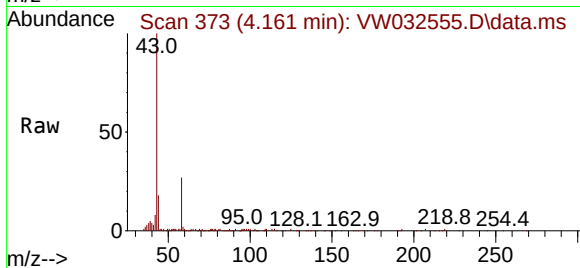




#16
Acetone
Concen: 69.557 ug/l
RT: 4.161 min Scan# 31
Delta R.T. -0.000 min
Lab File: VW032555.D
Acq: 26 Nov 2025 19:23

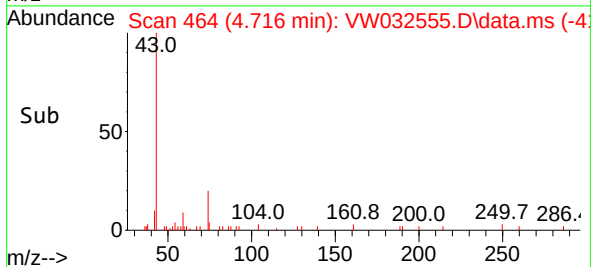
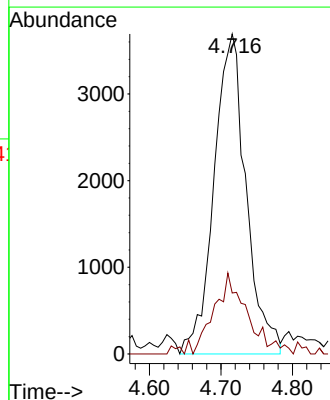
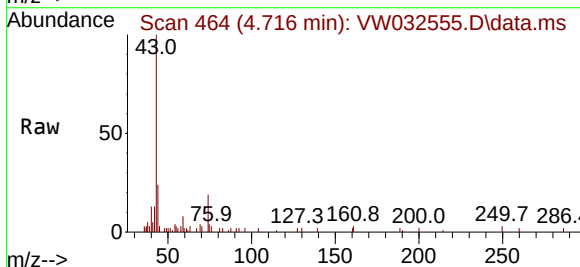
Instrument :
MSVOA_W
ClientSampleId :

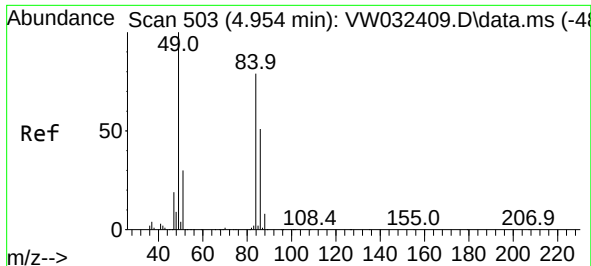
Tgt Ion: 43 Resp: 57001
Ion Ratio Lower Upper
43 100
58 26.2 24.8 37.2



#18
Methyl Acetate
Concen: 5.672 ug/l
RT: 4.716 min Scan# 464
Delta R.T. 0.006 min
Lab File: VW032555.D
Acq: 26 Nov 2025 19:23

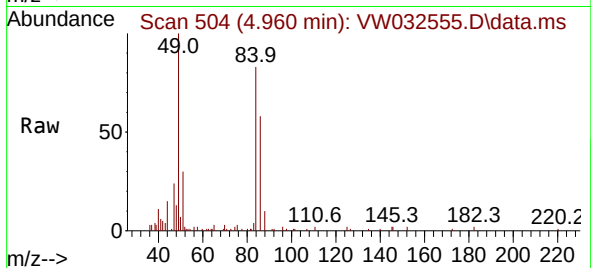
Tgt Ion: 43 Resp: 11510
Ion Ratio Lower Upper
43 100
74 25.1 18.9 28.3





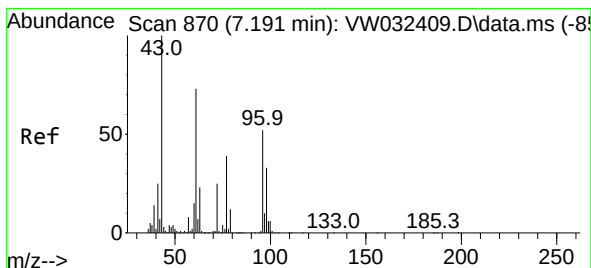
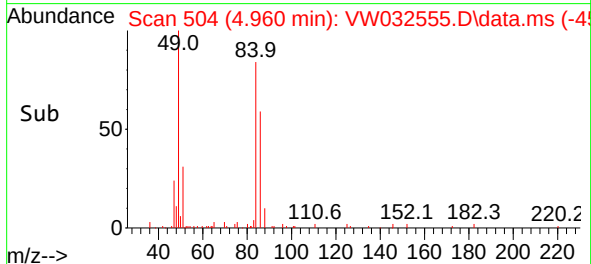
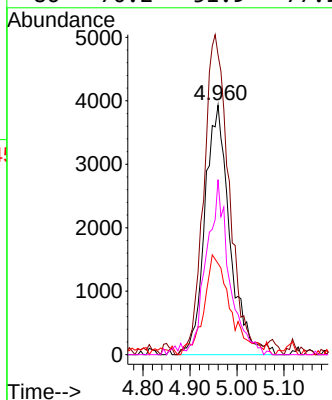
#20
Methylene Chloride
Concen: 4.954 ug/l
RT: 4.960 min Scan# 503
Delta R.T. 0.006 min
Lab File: VW032555.D
Acq: 26 Nov 2025 19:23

Instrument :
MSVOA_W
ClientSampleId :



Tgt Ion: 84 Resp: 14518

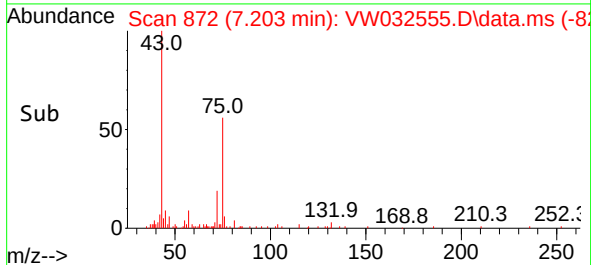
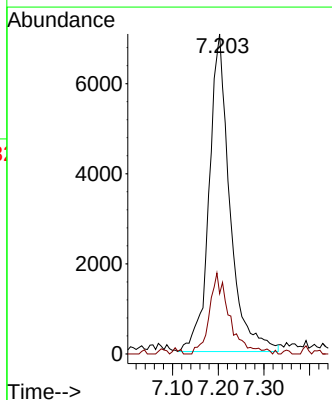
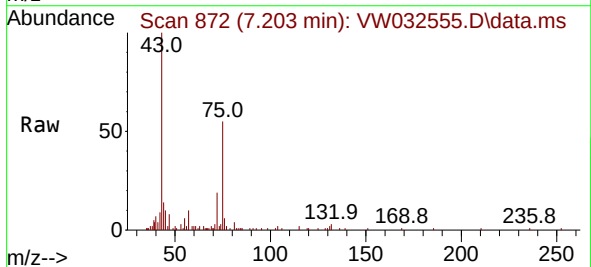
Ion	Ratio	Lower	Upper
84	100		
49	120.2	101.5	152.3
51	36.6	30.6	46.0
86	70.2	51.9	77.9

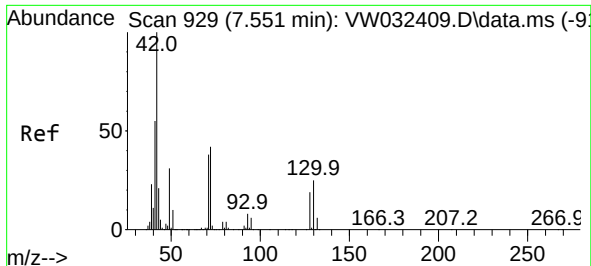


#25
2-Butanone
Concen: 18.469 ug/l
RT: 7.203 min Scan# 872
Delta R.T. 0.012 min
Lab File: VW032555.D
Acq: 26 Nov 2025 19:23

Tgt Ion: 43 Resp: 22298

Ion	Ratio	Lower	Upper
43	100		
72	18.3	20.0	30.0





#29

Tetrahydrofuran

Concen: 1.505 ug/l

RT: 7.563 min Scan# 911

Delta R.T. 0.012 min

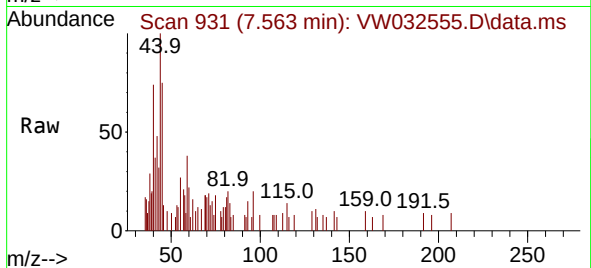
Lab File: VW032555.D

Acq: 26 Nov 2025 19:23

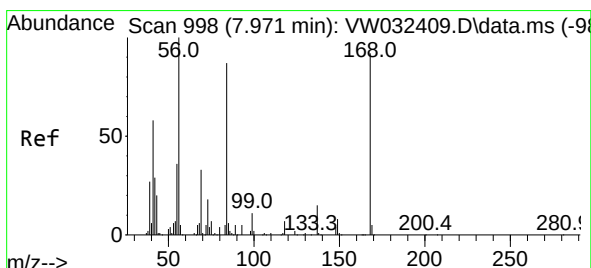
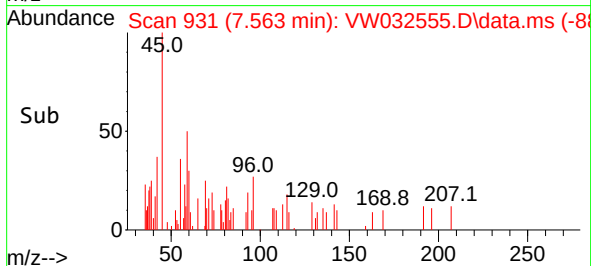
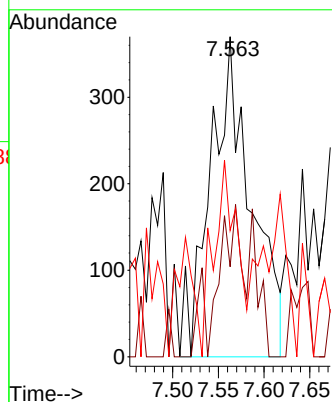
Instrument :

MSVOA_W

ClientSampleId :



Tgt Ion:	42	Resp:	1153
Ion Ratio	100		
Lower	33.6		
Upper	50.4#		
72	24.3		
71	34.9		
	31.4		
	47.0		



#31

Cyclohexane

Concen: 1.461 ug/l

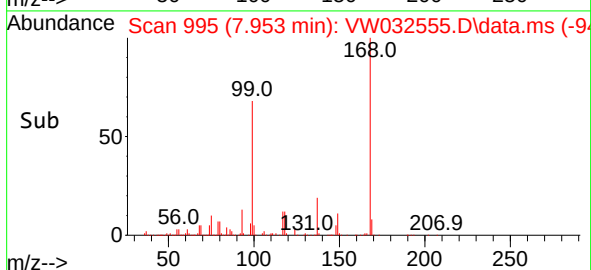
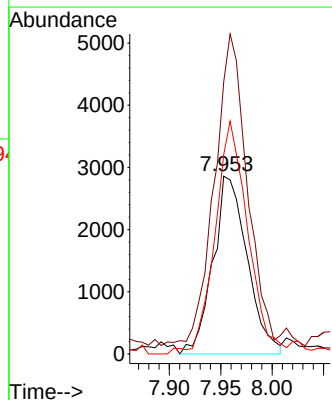
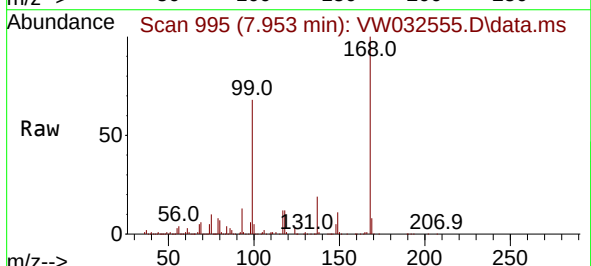
RT: 7.953 min Scan# 995

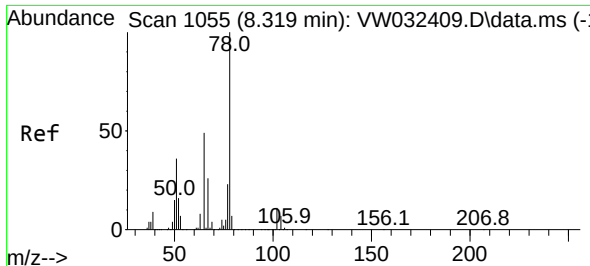
Delta R.T. -0.018 min

Lab File: VW032555.D

Acq: 26 Nov 2025 19:23

Tgt Ion:	56	Resp:	6619
Ion Ratio	100		
Lower	26.5		
Upper	39.7#		
69	145.5		
84	118.6		
	69.6		
	104.4#		

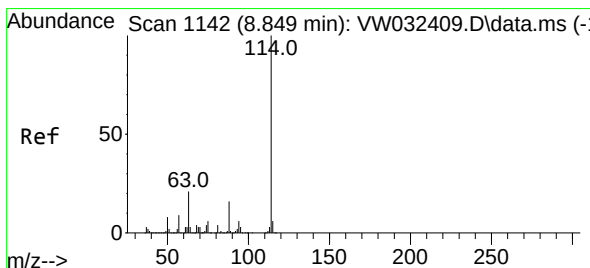
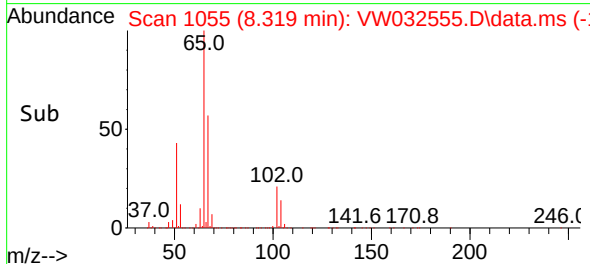
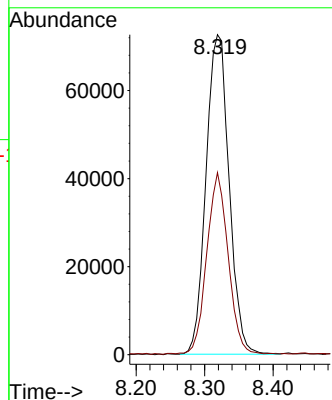
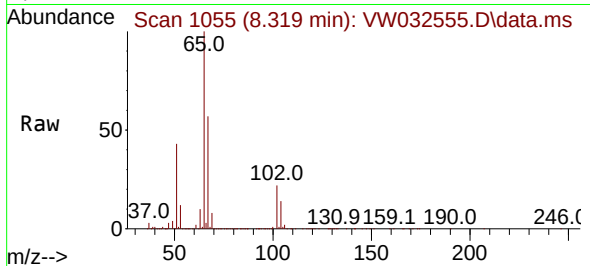




#33
1,2-Dichloroethane-d4
Concen: 62.018 ug/l
RT: 8.319 min Scan# 1055
Delta R.T. -0.000 min
Lab File: VW032555.D
Acq: 26 Nov 2025 19:23

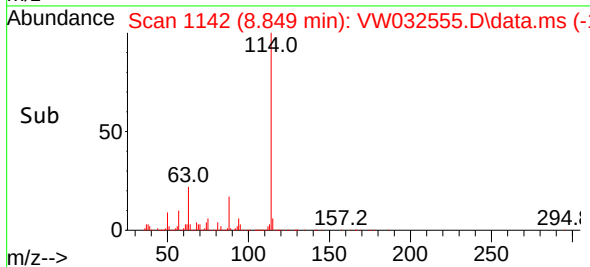
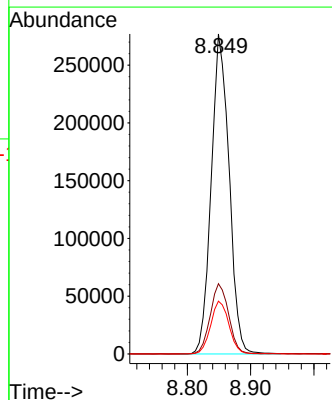
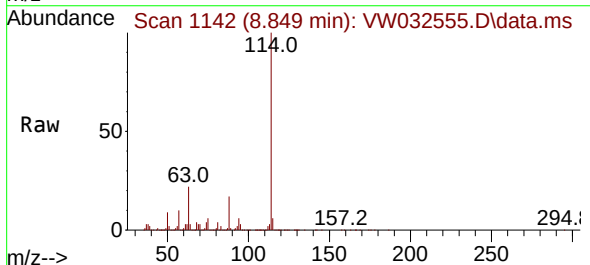
Instrument :
MSVOA_W
ClientSampleId :

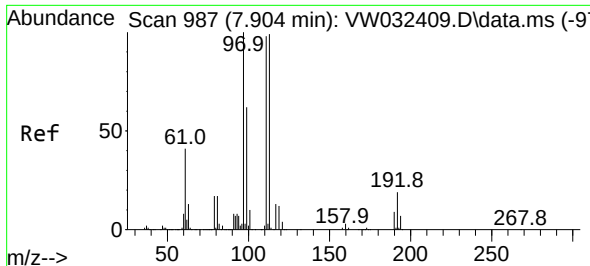
Tgt Ion: 65 Resp: 169877
Ion Ratio Lower Upper
65 100
67 52.6 0.0 106.8



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.849 min Scan# 1142
Delta R.T. -0.000 min
Lab File: VW032555.D
Acq: 26 Nov 2025 19:23

Tgt Ion:114 Resp: 543417
Ion Ratio Lower Upper
114 100
63 21.9 0.0 41.8
88 16.5 0.0 32.6





#35

Dibromofluoromethane

Concen: 48.203 ug/l

RT: 7.898 min Scan# 91

Delta R.T. -0.006 min

Lab File: VW032555.D

Acq: 26 Nov 2025 19:23

Instrument :

MSVOA_W

ClientSampleId :

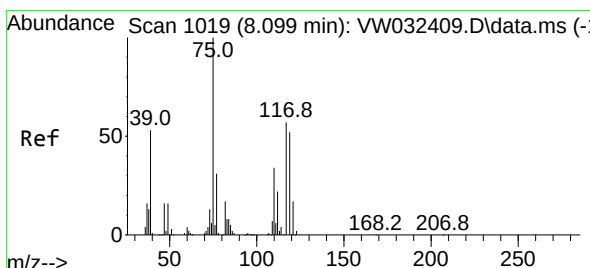
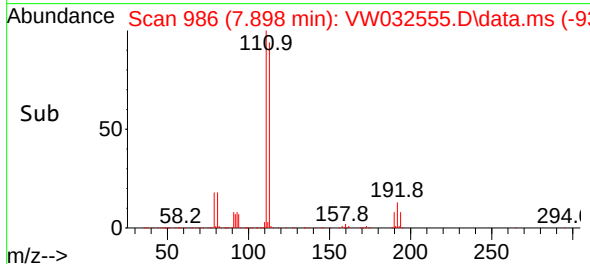
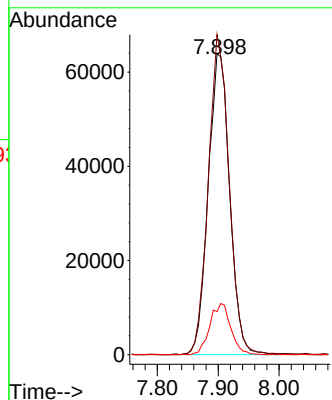
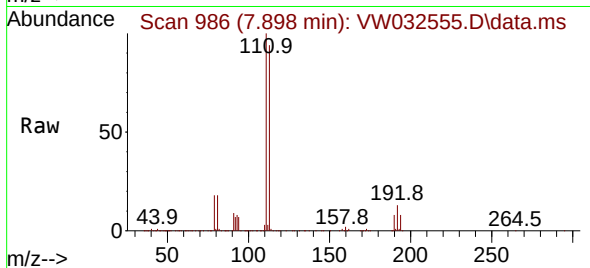
Tgt Ion:113 Resp: 156833

Ion Ratio Lower Upper

113 100

111 103.0 83.1 124.7

192 16.6 13.4 20.2



#36

1,1-Dichloropropene

Concen: 4.562 ug/l

RT: 7.959 min Scan# 996

Delta R.T. -0.140 min

Lab File: VW032555.D

Acq: 26 Nov 2025 19:23

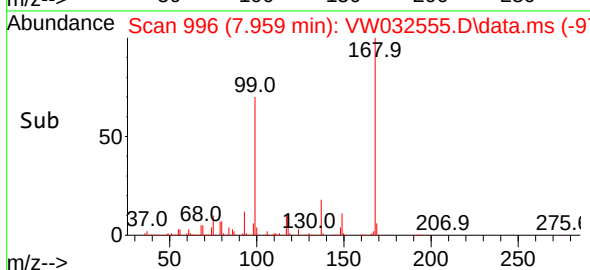
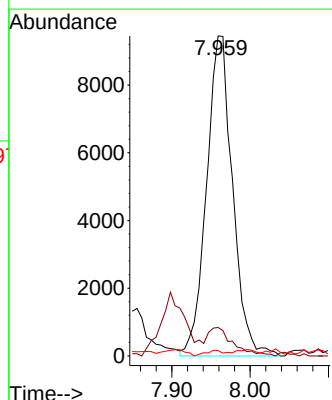
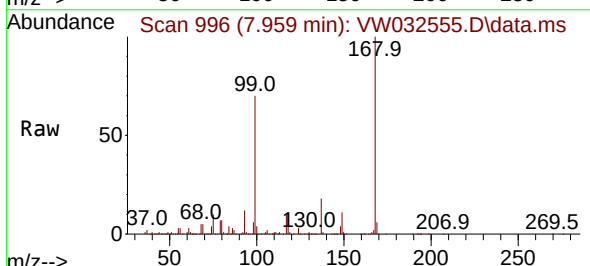
Tgt Ion: 75 Resp: 21867

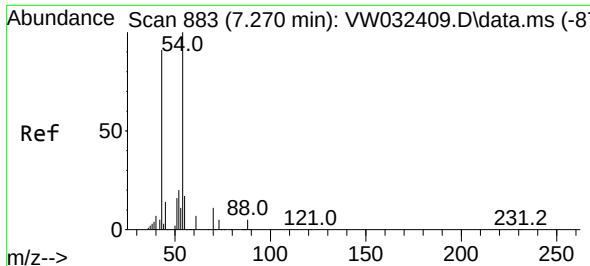
Ion Ratio Lower Upper

75 100

110 8.4 17.2 51.5#

77 1.4 24.5 36.7#

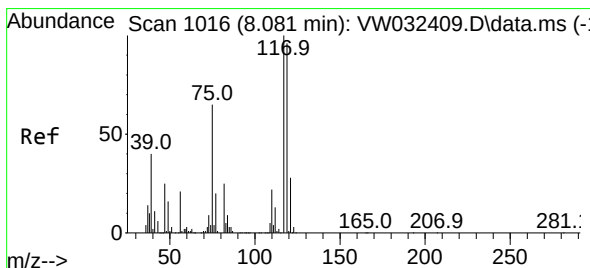
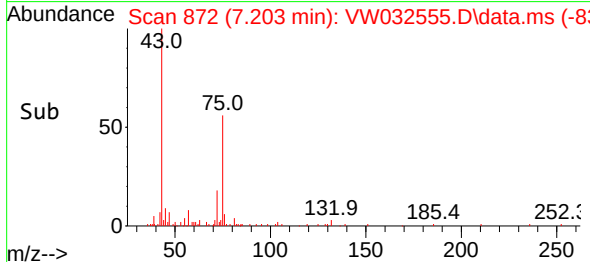
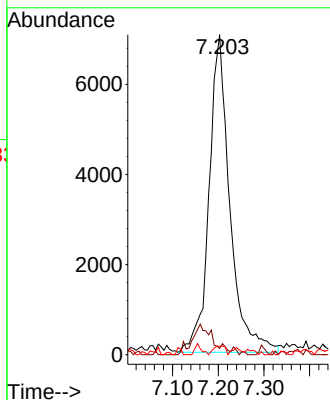
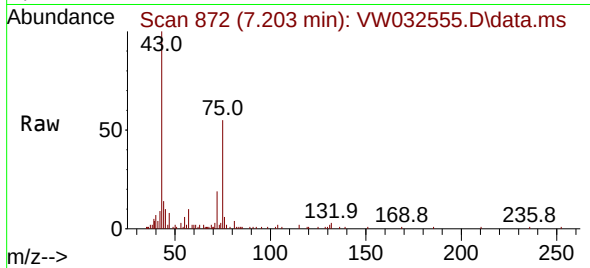




#37
Ethyl Acetate
Concen: 6.255 ug/l
RT: 7.203 min Scan# 81
Delta R.T. -0.067 min
Lab File: VW032555.D
Acq: 26 Nov 2025 19:23

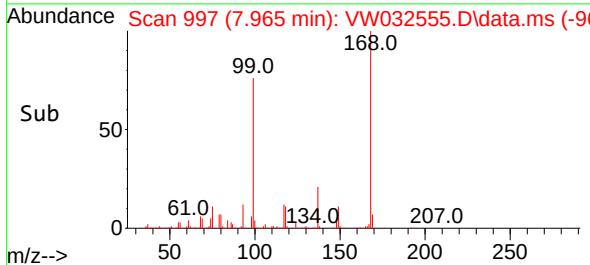
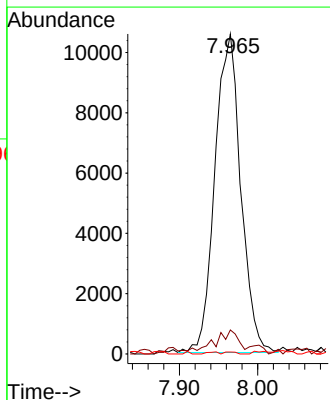
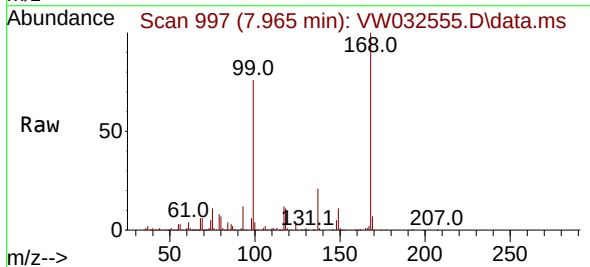
Instrument :
MSVOA_W
ClientSampleId :

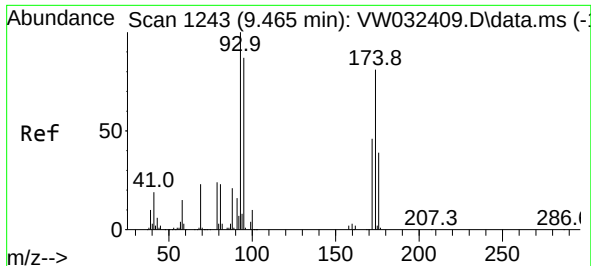
Tgt Ion: 43 Resp: 22298
Ion Ratio Lower Upper
43 100
61 0.0 11.0 16.6#
70 1.6 8.3 12.5#



#38
Carbon Tetrachloride
Concen: 5.696 ug/l
RT: 7.965 min Scan# 997
Delta R.T. -0.116 min
Lab File: VW032555.D
Acq: 26 Nov 2025 19:23

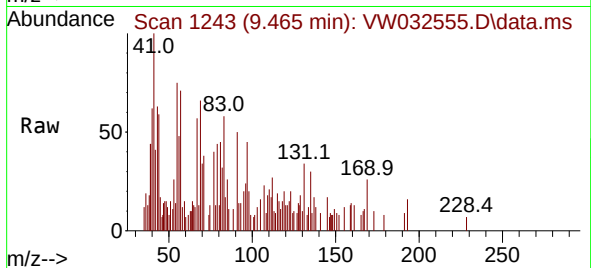
Tgt Ion: 117 Resp: 24264
Ion Ratio Lower Upper
117 100
119 6.6 77.0 115.4#
121 0.6 22.0 33.0#



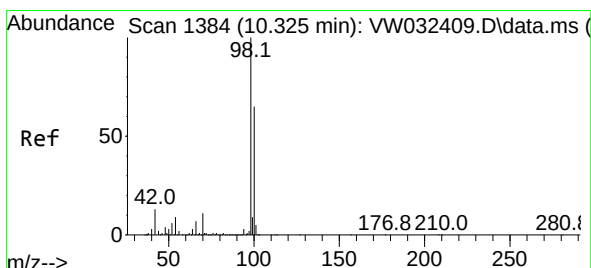
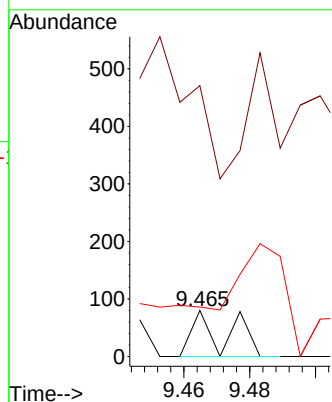
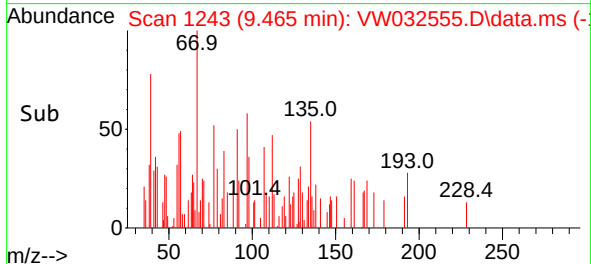


#49
1,4-Dioxane
Concen: 1.843 ug/l
RT: 9.465 min Scan# 11
Delta R.T. -0.000 min
Lab File: VW032555.D
Acq: 26 Nov 2025 19:23

Instrument :
MSVOA_W
ClientSampleId :

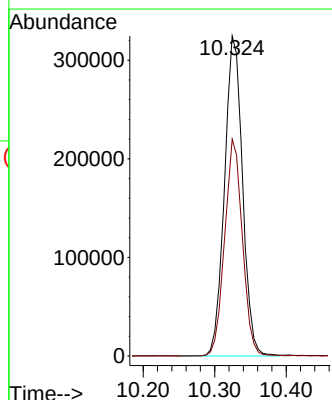
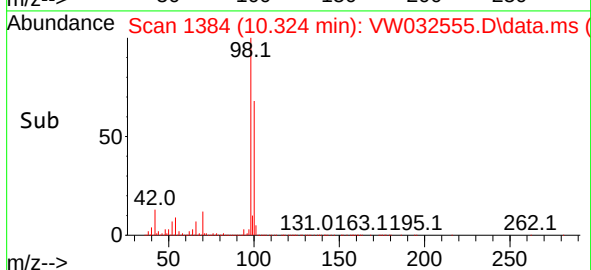
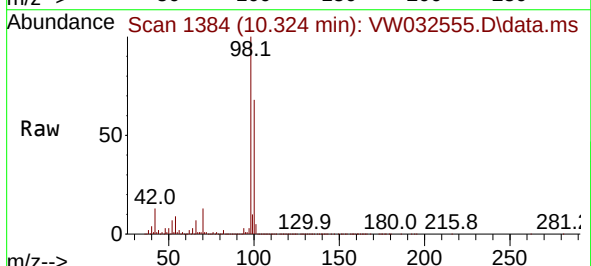


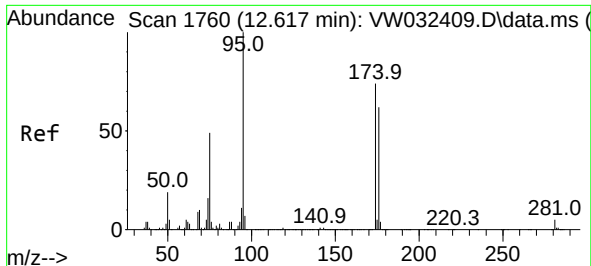
Tgt Ion: 88 Resp: 58
Ion Ratio Lower Upper
88 100
43 201.7 0.0 0.0#
58 324.1 63.0 94.4#



#50
Toluene-d8
Concen: 45.513 ug/l
RT: 10.324 min Scan# 1384
Delta R.T. -0.000 min
Lab File: VW032555.D
Acq: 26 Nov 2025 19:23

Tgt Ion: 98 Resp: 568078
Ion Ratio Lower Upper
98 100
100 66.7 53.3 79.9

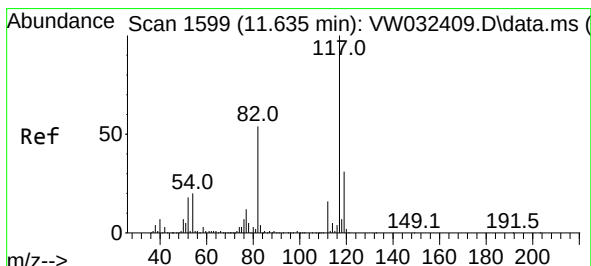
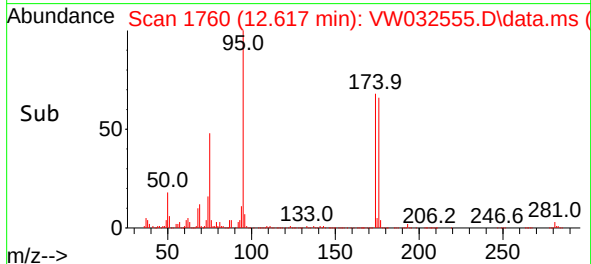
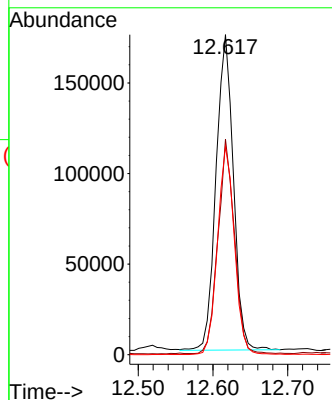
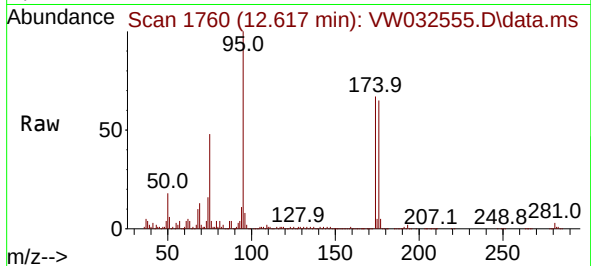




#62
4-Bromofluorobenzene
Concen: 59.640 ug/l
RT: 12.617 min Scan# 11
Delta R.T. -0.000 min
Lab File: VW032555.D
Acq: 26 Nov 2025 19:23

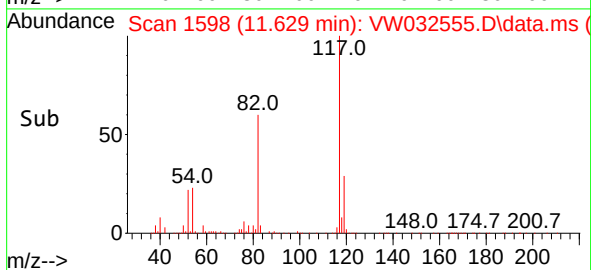
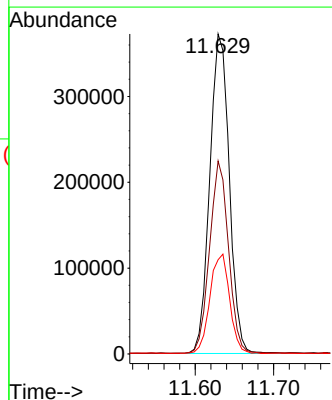
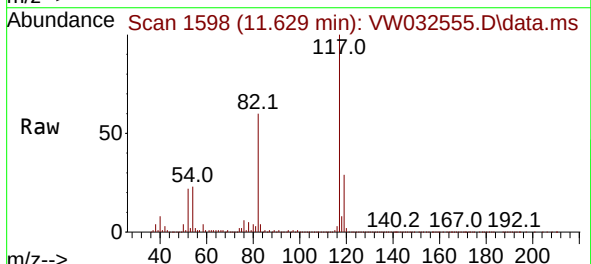
Instrument :
MSVOA_W
ClientSampleId :

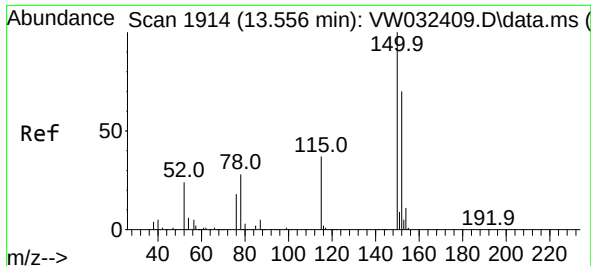
Tgt Ion: 95 Resp: 281208
Ion Ratio Lower Upper
95 100
174 64.7 0.0 135.4
176 64.3 0.0 131.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.629 min Scan# 1598
Delta R.T. -0.006 min
Lab File: VW032555.D
Acq: 26 Nov 2025 19:23

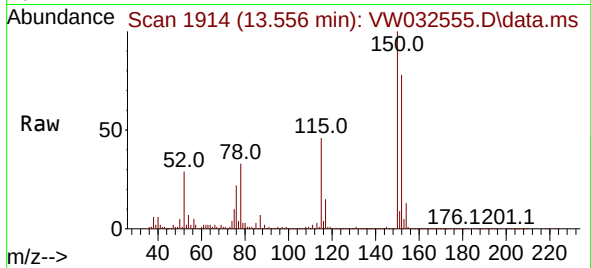
Tgt Ion: 117 Resp: 642461
Ion Ratio Lower Upper
117 100
82 60.1 43.0 64.4
119 29.3 25.0 37.6



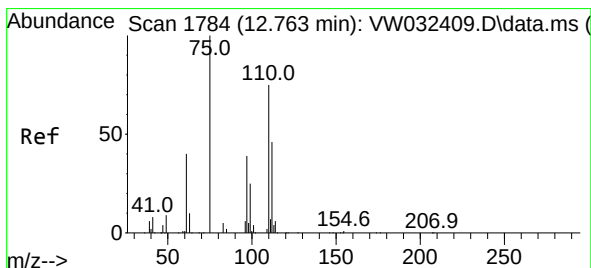
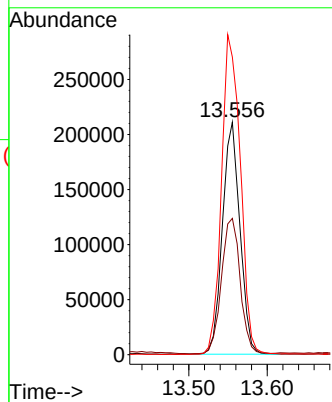
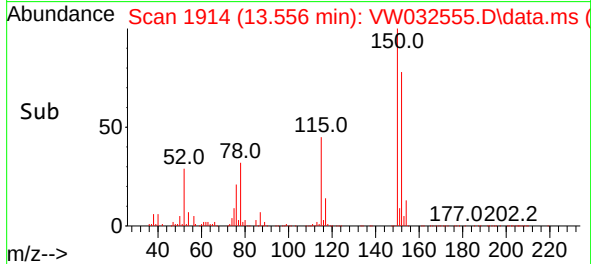


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.556 min Scan# 1914
Delta R.T. -0.000 min
Lab File: VW032555.D
Acq: 26 Nov 2025 19:23

Instrument :
MSVOA_W
ClientSampleId :

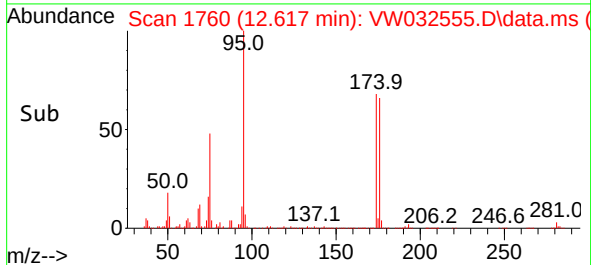
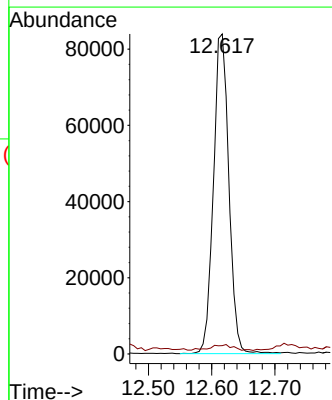
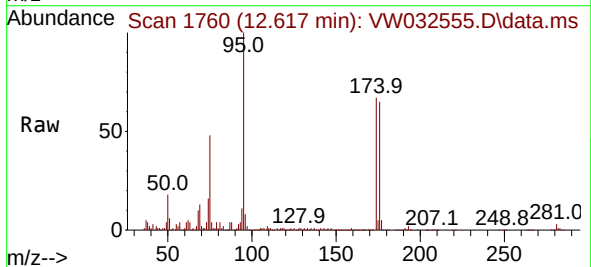


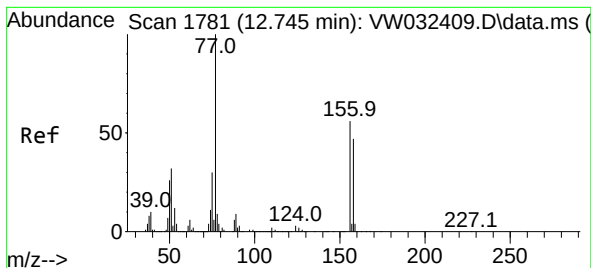
Tgt Ion:152 Resp: 328212
Ion Ratio Lower Upper
152 100
115 62.6 32.8 98.3
150 148.1 0.0 356.6



#76
1,2,3-Trichloropropane
Concen: 31.647 ug/l
RT: 12.617 min Scan# 1760
Delta R.T. -0.146 min
Lab File: VW032555.D
Acq: 26 Nov 2025 19:23

Tgt Ion: 75 Resp: 142420
Ion Ratio Lower Upper
75 100
77 2.3 151.6 454.8#





#77

Bromobenzene

Concen: 5.760 ug/l

RT: 12.848 min Scan# 1

Delta R.T. 0.104 min

Lab File: VW032555.D

Acq: 26 Nov 2025 19:23

Instrument :

MSVOA_W

ClientSampleId :

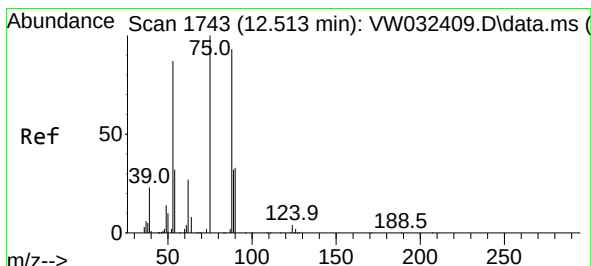
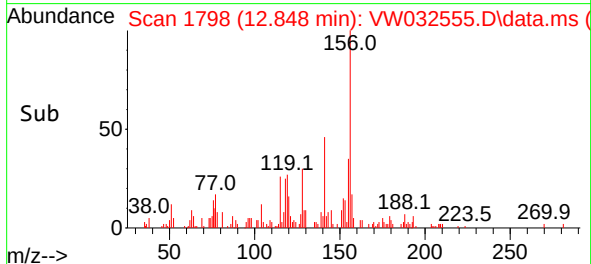
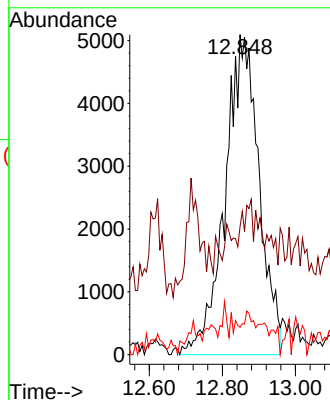
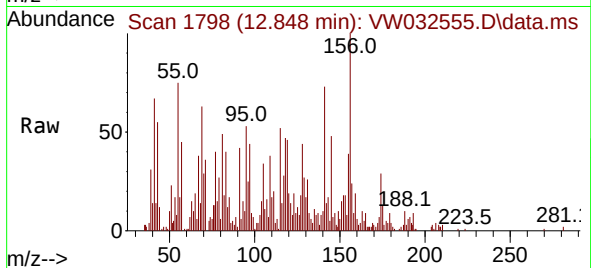
Tgt Ion:156 Resp: 32871

Ion Ratio Lower Upper

156 100

77 0.0 108.0 324.0#

158 0.0 45.1 135.5#



#81

trans-1,4-Dichloro-2-butene

Concen: 72.485 ug/l

RT: 12.617 min Scan# 1760

Delta R.T. 0.104 min

Lab File: VW032555.D

Acq: 26 Nov 2025 19:23

Tgt Ion: 75 Resp: 142420

Ion Ratio Lower Upper

75 100

53 0.0 77.8 116.8#

89 0.2 35.6 53.4#

