

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111125\
 Data File : VW032429.D
 Acq On : 11 Nov 2025 14:37
 Operator : SY/MD
 Sample : Q3586-03
 Misc : 6.67g/5mL/MSVOA_W/SOIL/A
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :

Quant Time: Nov 12 03:50:07 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)

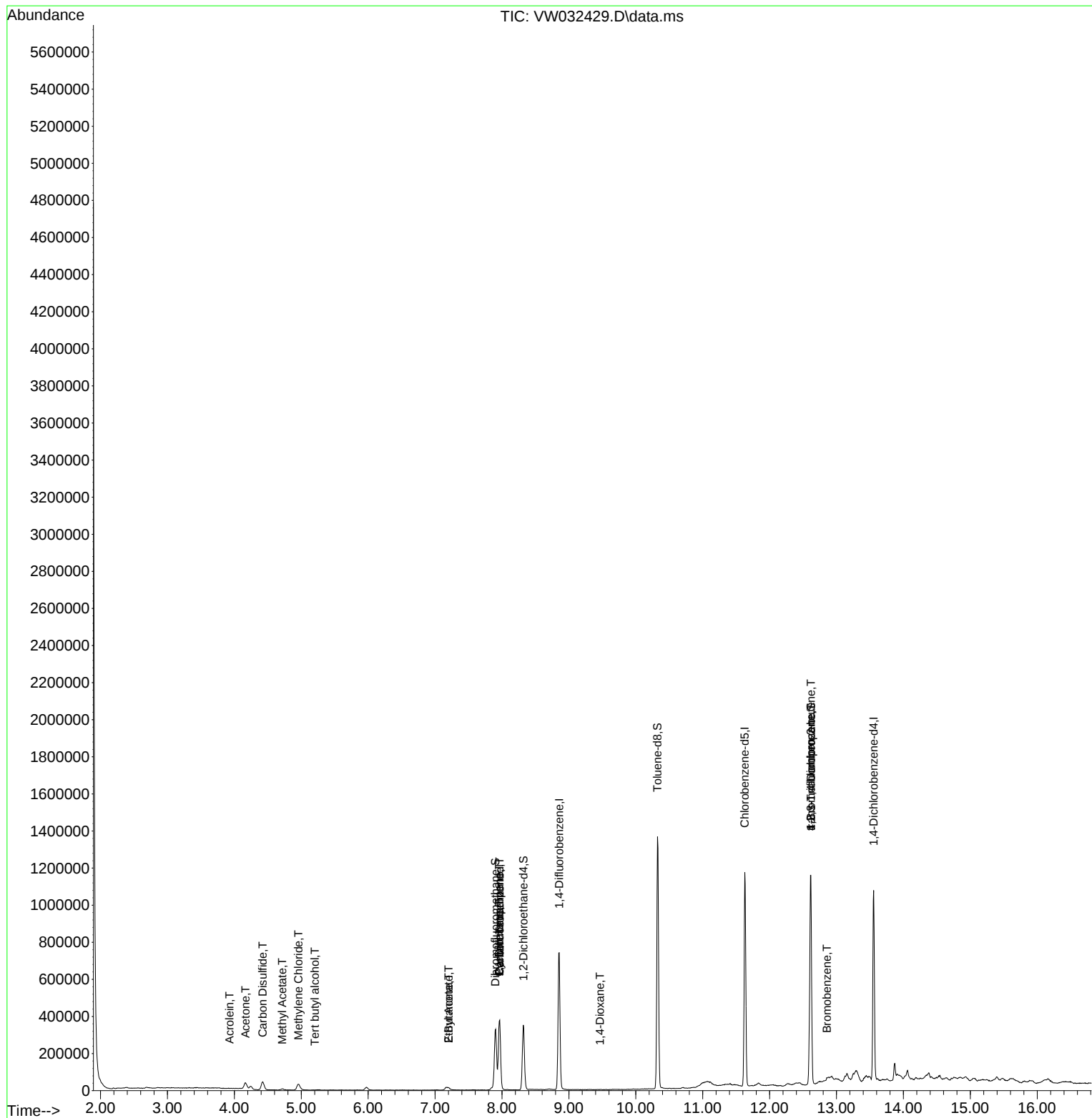
Internal Standards						
1) Pentafluorobenzene	7.965	168	280509	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.855	114	638239	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.629	117	636430	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.556	152	265404	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.319	65	275455	76.168	ug/l	0.00
Spiked Amount 50.000	Range 63 - 155		Recovery = 152.340%			
35) Dibromofluoromethane	7.898	113	250380	65.522	ug/l	0.00
Spiked Amount 50.000	Range 70 - 134		Recovery = 131.040%			
50) Toluene-d8	10.325	98	912882	62.271	ug/l	0.00
Spiked Amount 50.000	Range 74 - 123		Recovery = 124.540%#			
62) 4-Bromofluorobenzene	12.617	95	363244	65.593	ug/l	0.00
Spiked Amount 50.000	Range 17 - 146		Recovery = 131.180%			
Target Compounds					Qvalue	
11) Tert butyl alcohol	5.204	59	636	2.034	ug/l	97
13) Acrolein	3.929	56	548	1.044	ug/l #	45
16) Acetone	4.167	43	62493	57.760	ug/l	98
17) Carbon Disulfide	4.423	76	100962	11.330	ug/l	100
18) Methyl Acetate	4.716	43	12882	4.808	ug/l	94
20) Methylene Chloride	4.960	84	26747	6.913	ug/l	92
25) 2-Butanone	7.203	43	15889	9.968	ug/l	96
31) Cyclohexane	7.959	56	7016	1.173	ug/l #	1
36) 1,1-Dichloropropene	7.959	75	24760	4.398	ug/l #	49
37) Ethyl Acetate	7.203	43	15889	3.795	ug/l #	69
38) Carbon Tetrachloride	7.965	117	29922	5.981	ug/l #	16
49) 1,4-Dioxane	9.465	88	42	1.136	ug/l #	59
76) 1,2,3-Trichloropropane	12.617	75	182104	50.041	ug/l #	1
77) Bromobenzene	12.855	156	12306	2.666	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.617	75	182104	114.615	ug/l #	11

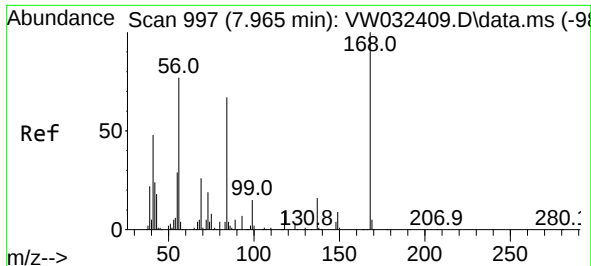
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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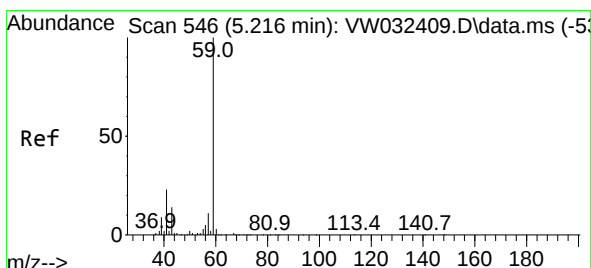
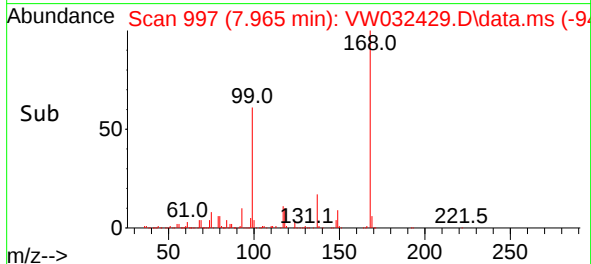
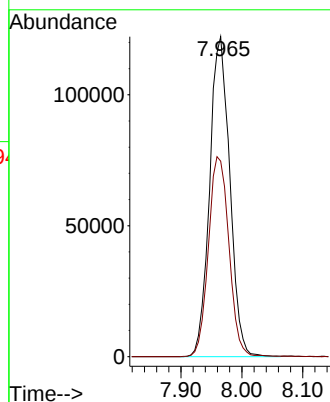
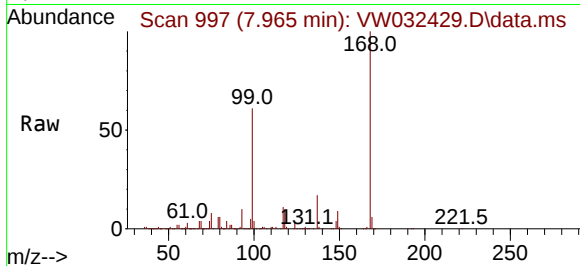




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.965 min Scan# 997
Delta R.T. 0.000 min
Lab File: VW032429.D
Acq: 11 Nov 2025 14:37

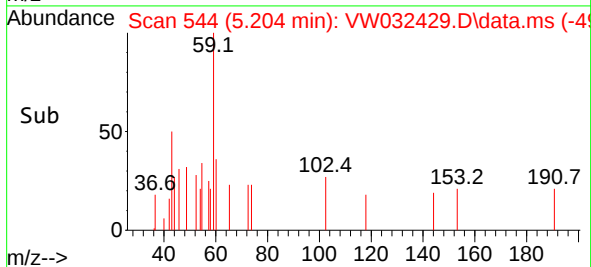
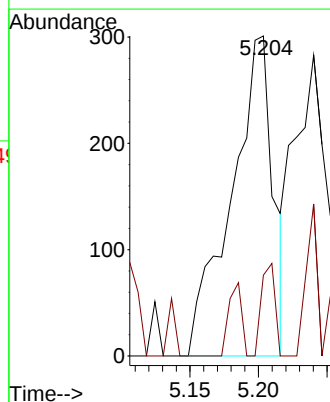
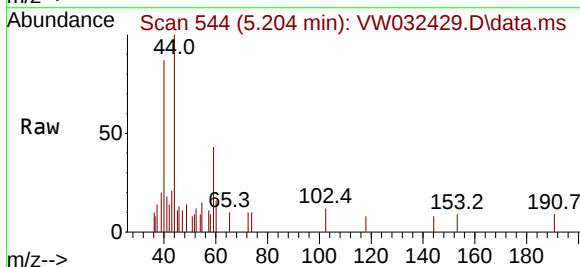
Instrument :
MSVOA_W
ClientSampleId :

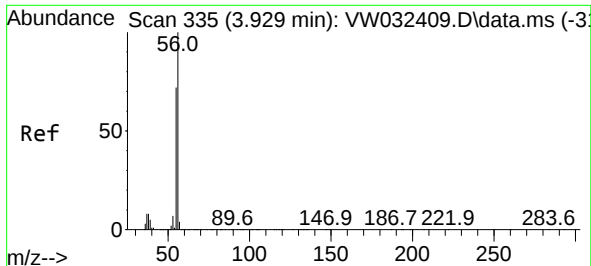
Tgt Ion:168 Resp: 280509
Ion Ratio Lower Upper
168 100
99 61.1 45.4 68.2



#11
Tert butyl alcohol
Concen: 2.034 ug/l
RT: 5.204 min Scan# 544
Delta R.T. -0.012 min
Lab File: VW032429.D
Acq: 11 Nov 2025 14:37

Tgt Ion: 59 Resp: 636
Ion Ratio Lower Upper
59 100
57 9.4 8.6 12.8

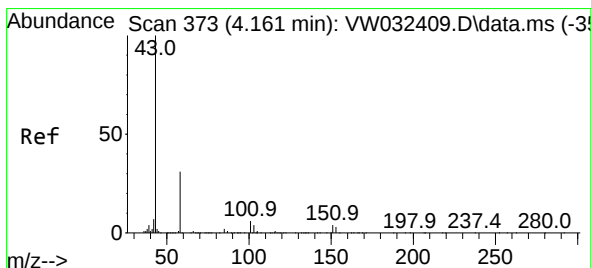
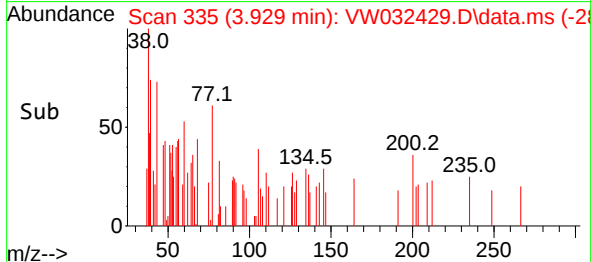
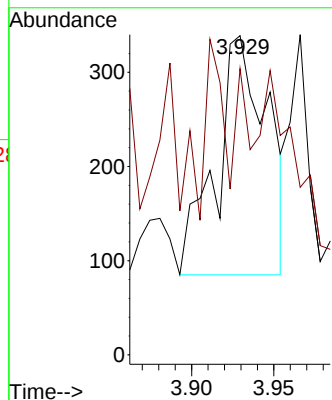
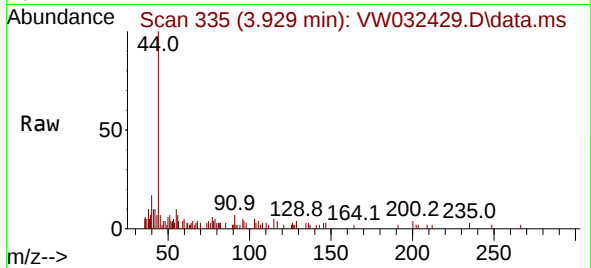




#13
Acrolein
Concen: 1.044 ug/l
RT: 3.929 min Scan# 31
Delta R.T. 0.000 min
Lab File: VW032429.D
Acq: 11 Nov 2025 14:37

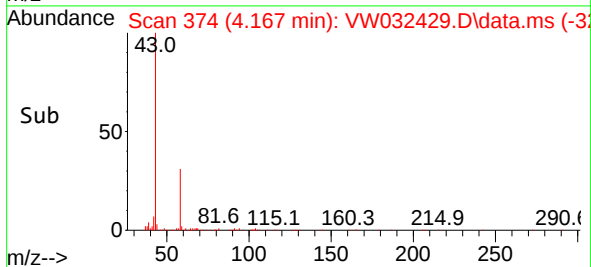
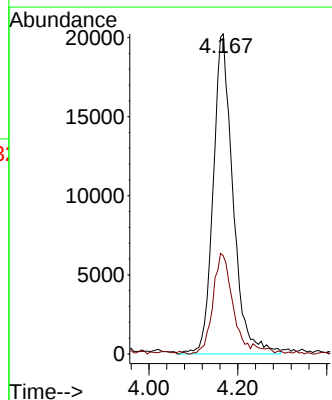
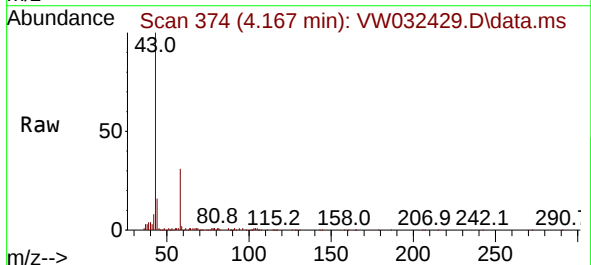
Instrument :
MSVOA_W
ClientSampleId :

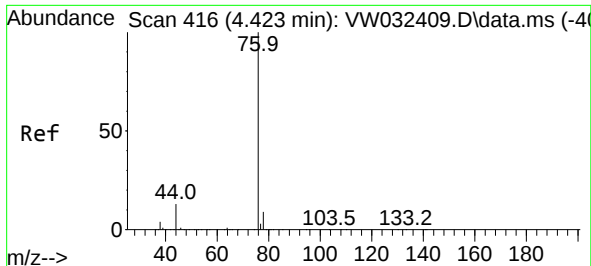
Tgt Ion: 56 Resp: 548
Ion Ratio Lower Upper
56 100
55 24.8 56.3 84.5#



#16
Acetone
Concen: 57.760 ug/l
RT: 4.167 min Scan# 374
Delta R.T. 0.006 min
Lab File: VW032429.D
Acq: 11 Nov 2025 14:37

Tgt Ion: 43 Resp: 62493
Ion Ratio Lower Upper
43 100
58 29.9 24.8 37.2

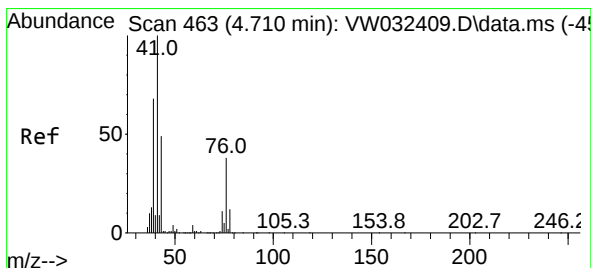
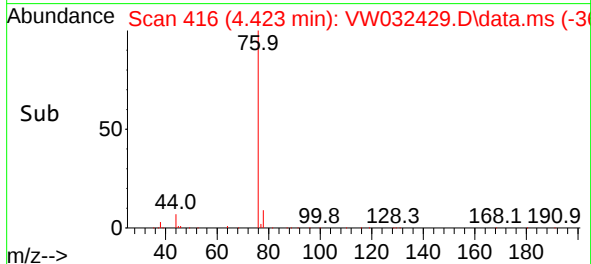
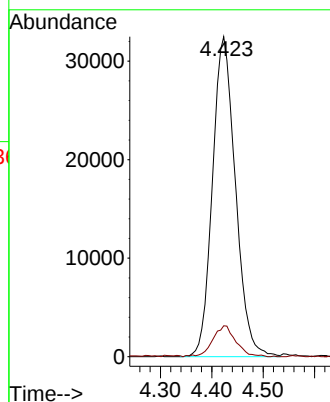
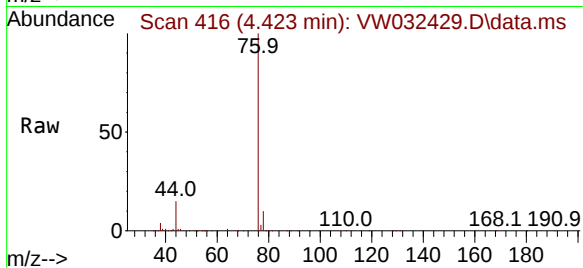




#17
Carbon Disulfide
Concen: 11.330 ug/l
RT: 4.423 min Scan# 416
Delta R.T. 0.000 min
Lab File: VW032429.D
Acq: 11 Nov 2025 14:37

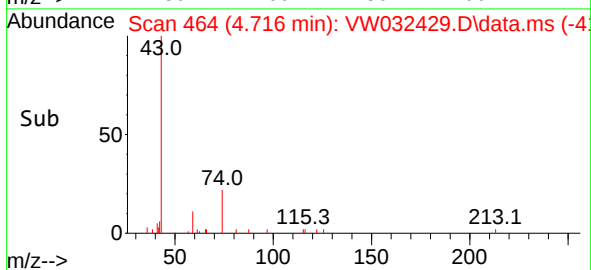
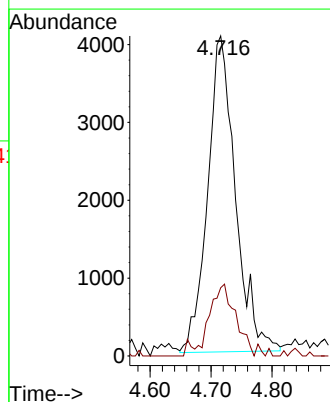
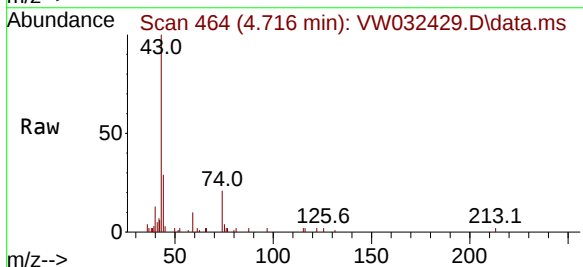
Instrument :
MSVOA_W
ClientSampleId :

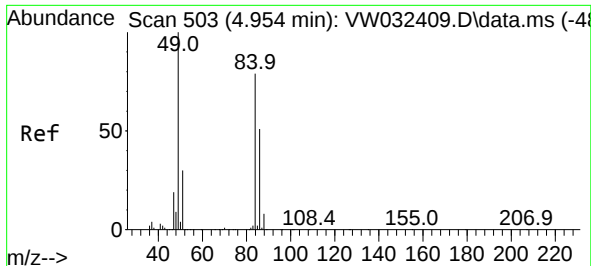
Tgt Ion: 76 Resp: 100962
Ion Ratio Lower Upper
76 100
78 9.6 7.6 11.4



#18
Methyl Acetate
Concen: 4.808 ug/l
RT: 4.716 min Scan# 464
Delta R.T. 0.006 min
Lab File: VW032429.D
Acq: 11 Nov 2025 14:37

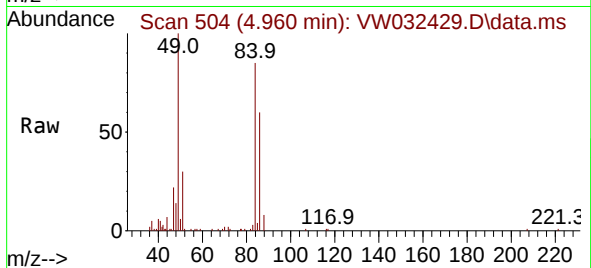
Tgt Ion: 43 Resp: 12882
Ion Ratio Lower Upper
43 100
74 20.8 18.9 28.3



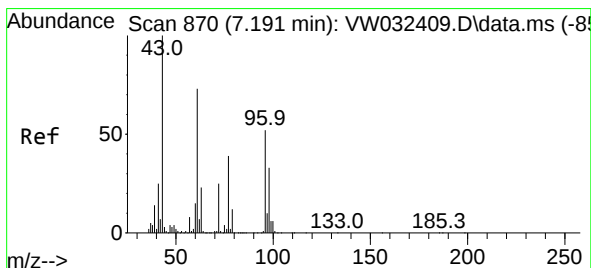
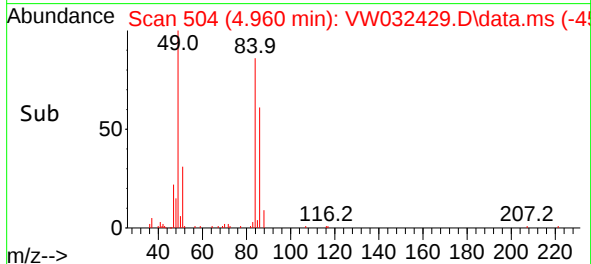
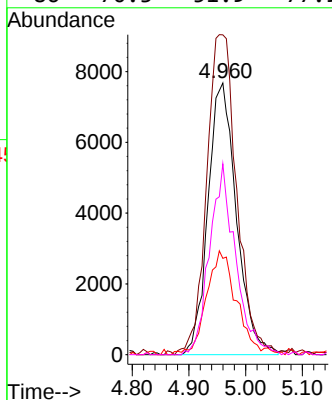


#20
Methylene Chloride
Concen: 6.913 ug/l
RT: 4.960 min Scan# 504
Delta R.T. 0.006 min
Lab File: VW032429.D
Acq: 11 Nov 2025 14:37

Instrument :
MSVOA_W
ClientSampleId :

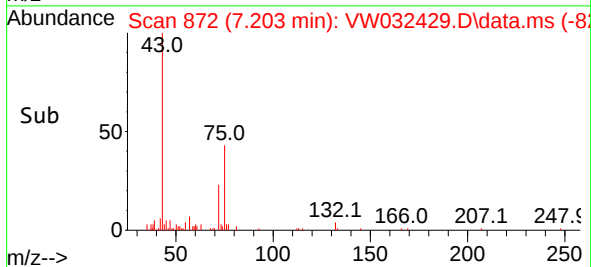
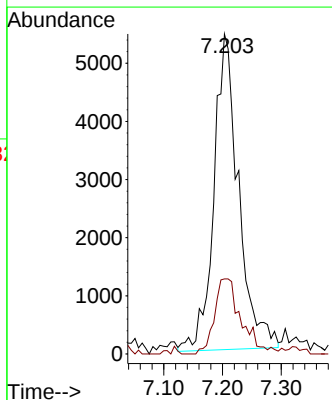
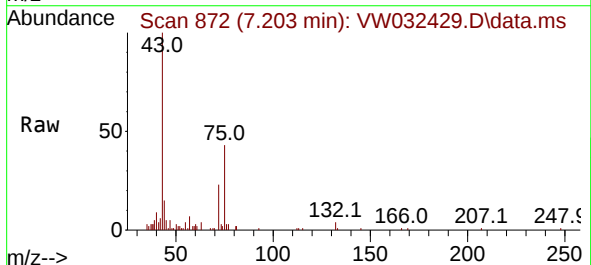


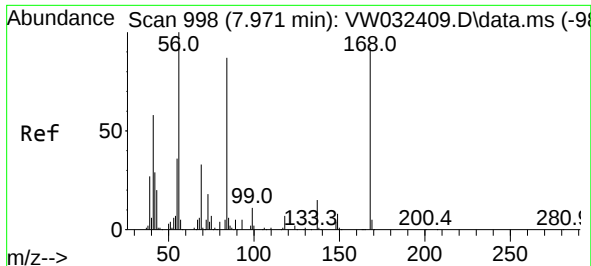
Tgt Ion:	84	Resp:	26747
Ion	Ratio	Lower	Upper
84	100		
49	116.7	101.5	152.3
51	34.7	30.6	46.0
86	70.3	51.9	77.9



#25
2-Butanone
Concen: 9.968 ug/l
RT: 7.203 min Scan# 872
Delta R.T. 0.012 min
Lab File: VW032429.D
Acq: 11 Nov 2025 14:37

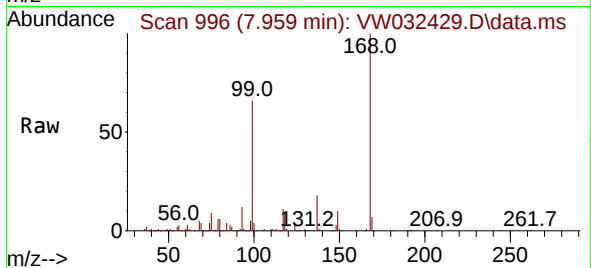
Tgt Ion:	43	Resp:	15889
Ion	Ratio	Lower	Upper
43	100		
72	23.0	20.0	30.0



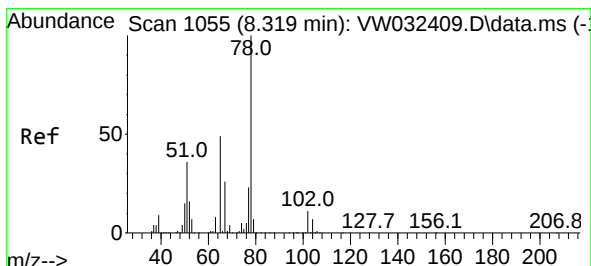
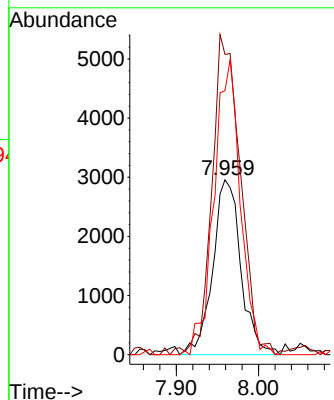
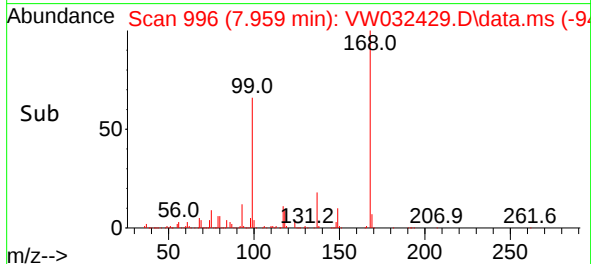


#31
Cyclohexane
Concen: 1.173 ug/l
RT: 7.959 min Scan# 996
Delta R.T. -0.012 min
Lab File: VW032429.D
Acq: 11 Nov 2025 14:37

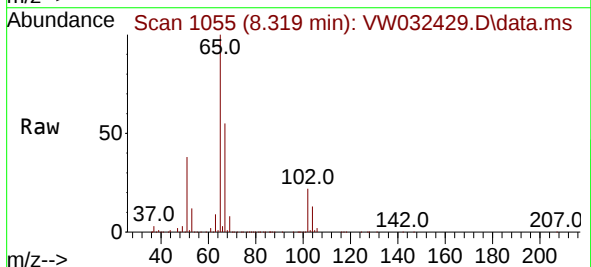
Instrument :
MSVOA_W
ClientSampleId :



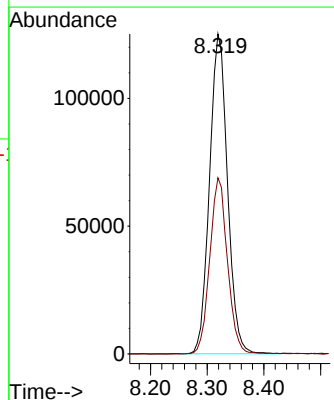
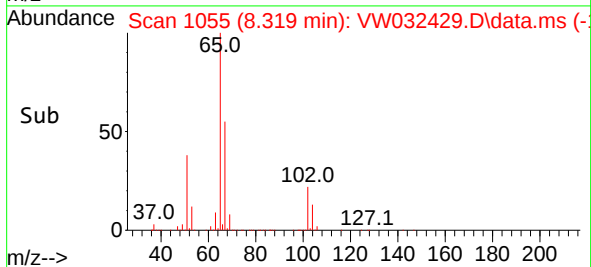
Tgt Ion: 56 Resp: 7016
Ion Ratio Lower Upper
56 100
69 169.5 26.5 39.7#
84 150.9 69.6 104.4#

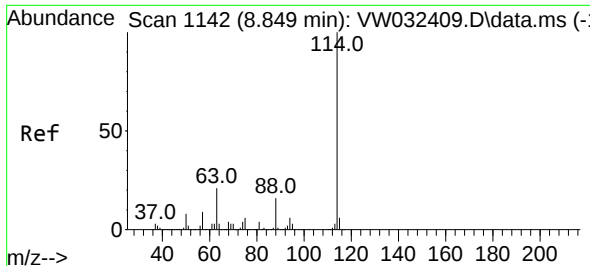


#33
1,2-Dichloroethane-d4
Concen: 76.168 ug/l
RT: 8.319 min Scan# 1055
Delta R.T. 0.000 min
Lab File: VW032429.D
Acq: 11 Nov 2025 14:37



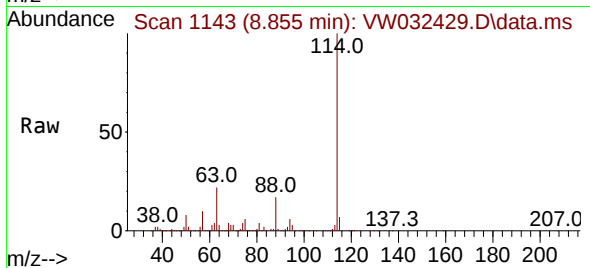
Tgt Ion: 65 Resp: 275455
Ion Ratio Lower Upper
65 100
67 54.4 0.0 106.8



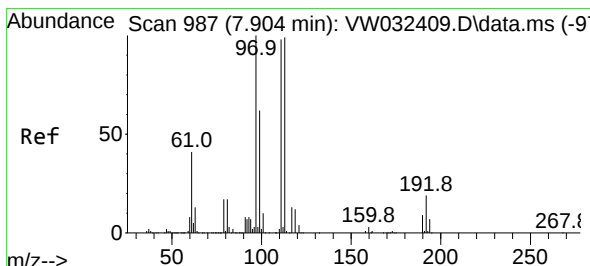
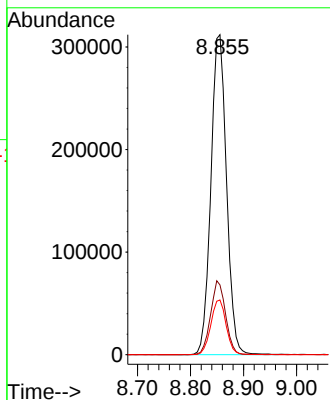
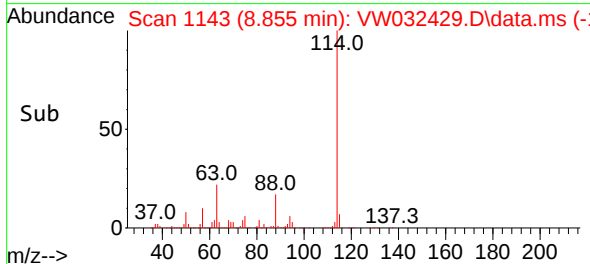


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.855 min Scan# 1143
Delta R.T. 0.006 min
Lab File: VW032429.D
Acq: 11 Nov 2025 14:37

Instrument :
MSVOA_W
ClientSampleId :

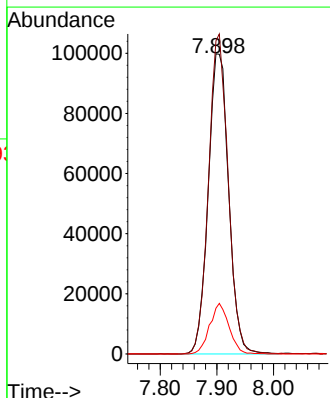
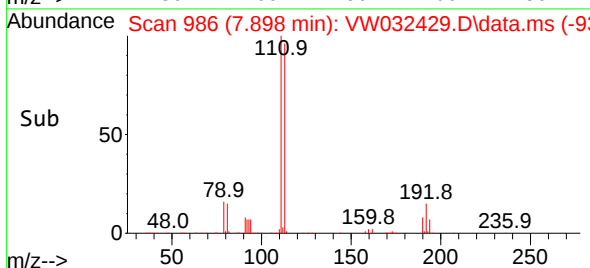
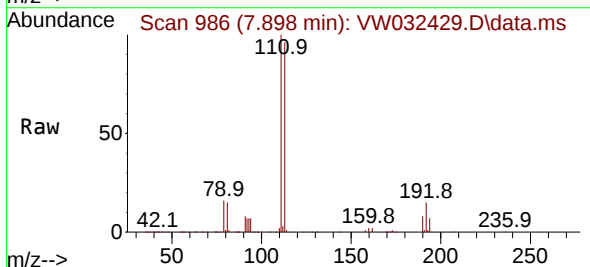


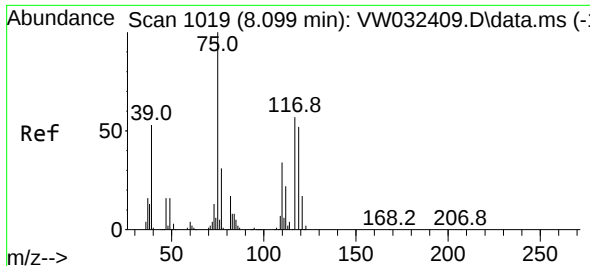
Tgt Ion:114 Resp: 638239
Ion Ratio Lower Upper
114 100
63 21.8 0.0 41.8
88 17.1 0.0 32.6



#35
Dibromofluoromethane
Concen: 65.522 ug/l
RT: 7.898 min Scan# 986
Delta R.T. -0.006 min
Lab File: VW032429.D
Acq: 11 Nov 2025 14:37

Tgt Ion:113 Resp: 250380
Ion Ratio Lower Upper
113 100
111 102.1 83.1 124.7
192 15.9 13.4 20.2





#36

1,1-Dichloropropene

Concen: 4.398 ug/l

RT: 7.959 min Scan# 91

Delta R.T. -0.140 min

Lab File: VW032429.D

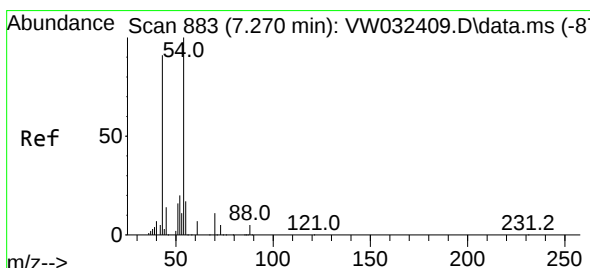
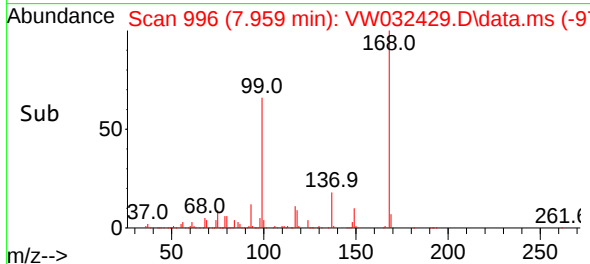
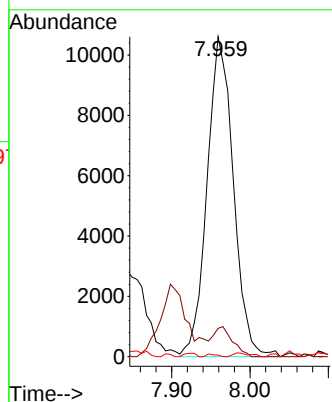
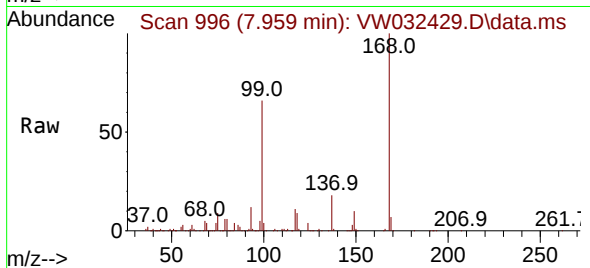
Acq: 11 Nov 2025 14:37

Instrument :

MSVOA_W

ClientSampleId :

Tgt Ion:	75	Resp:	24760
Ion	Ratio	Lower	Upper
75	100		
110	6.8	17.2	51.5#
77	0.3	24.5	36.7#



#37

Ethyl Acetate

Concen: 3.795 ug/l

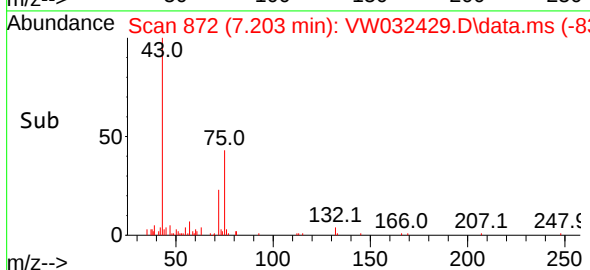
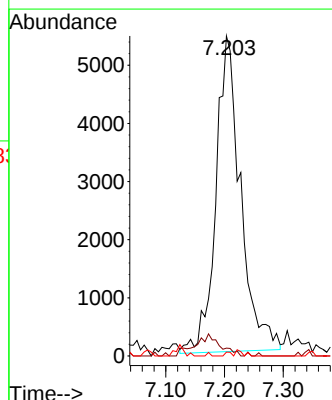
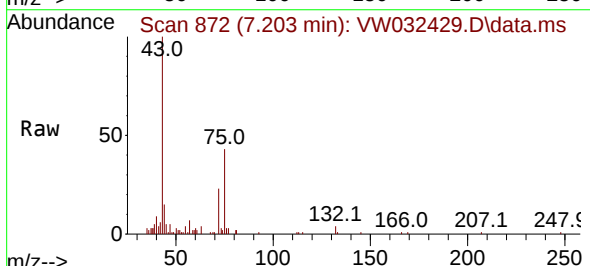
RT: 7.203 min Scan# 872

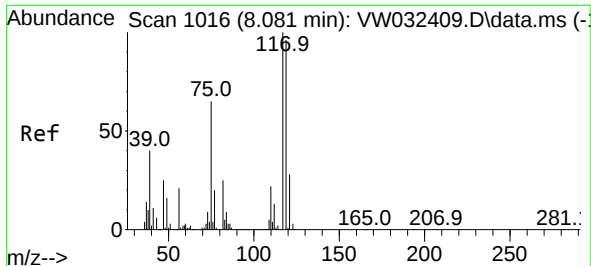
Delta R.T. -0.067 min

Lab File: VW032429.D

Acq: 11 Nov 2025 14:37

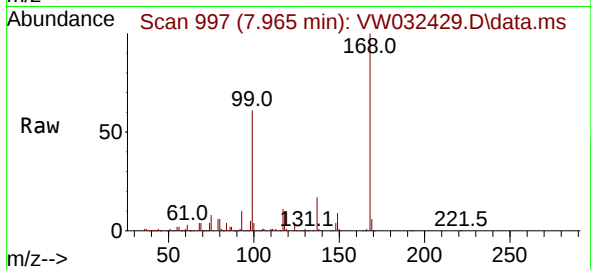
Tgt Ion:	43	Resp:	15889
Ion	Ratio	Lower	Upper
43	100		
61	0.0	11.0	16.6#
70	0.3	8.3	12.5#



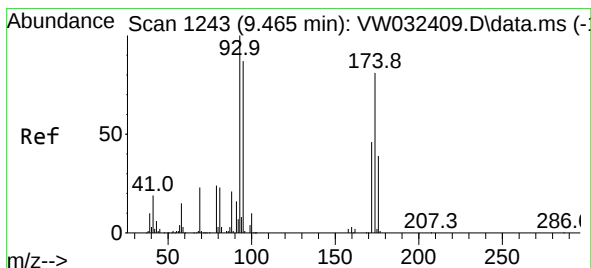
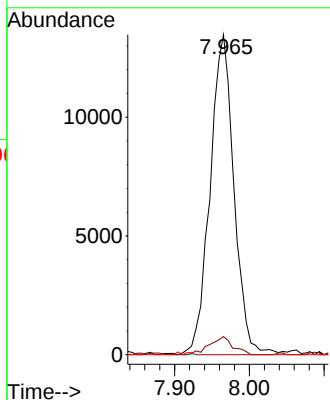
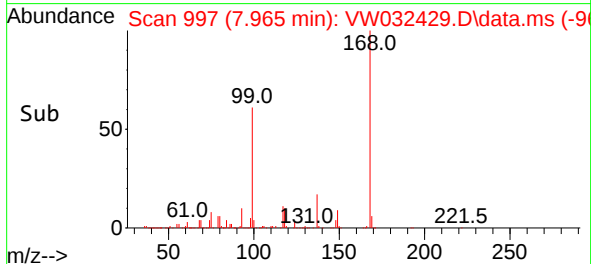


#38
Carbon Tetrachloride
Concen: 5.981 ug/l
RT: 7.965 min Scan# 99
Delta R.T. -0.116 min
Lab File: VW032429.D
Acq: 11 Nov 2025 14:37

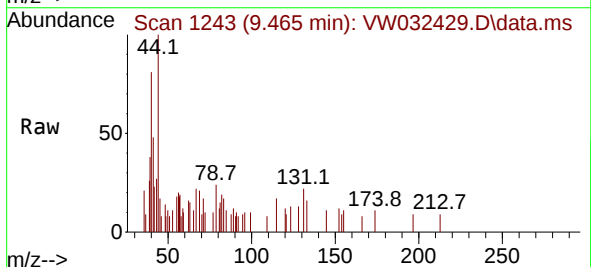
Instrument :
MSVOA_W
ClientSampleId :



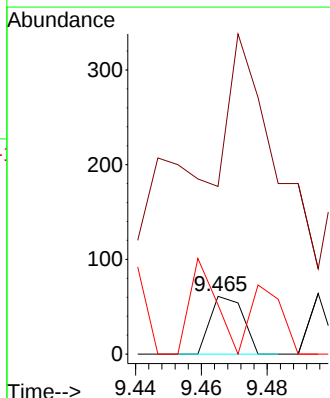
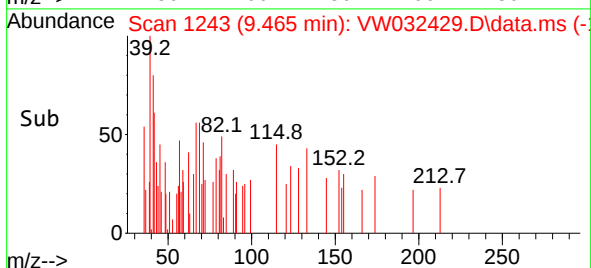
Tgt Ion: 117 Resp: 29922
Ion Ratio Lower Upper
117 100
119 5.7 77.0 115.4#
121 0.0 22.0 33.0#

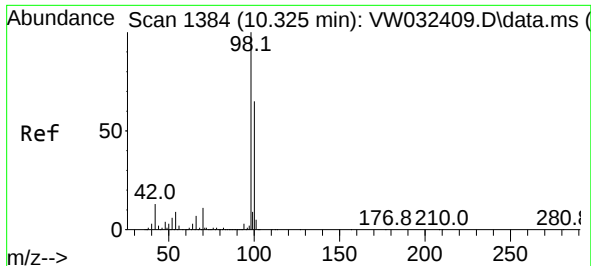


#49
1,4-Dioxane
Concen: 1.136 ug/l
RT: 9.465 min Scan# 1243
Delta R.T. 0.000 min
Lab File: VW032429.D
Acq: 11 Nov 2025 14:37



Tgt Ion: 88 Resp: 42
Ion Ratio Lower Upper
88 100
43 931.0 0.0 0.0#
58 114.3 63.0 94.4#

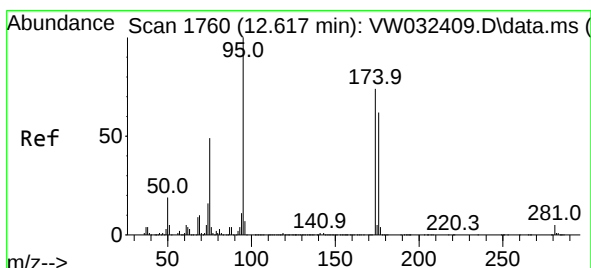
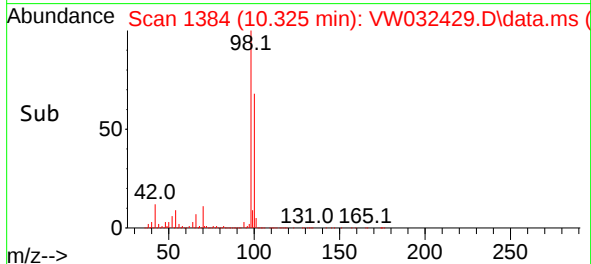
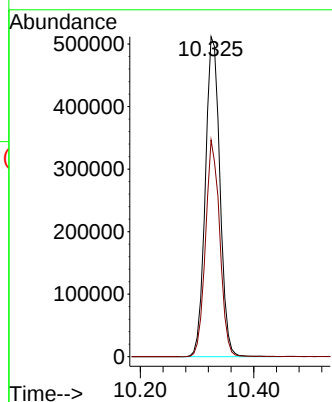
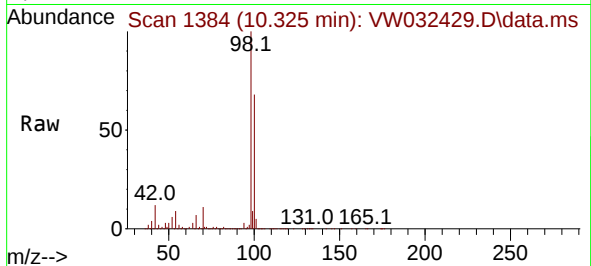




#50
Toluene-d8
Concen: 62.271 ug/l
RT: 10.325 min Scan# 11
Delta R.T. 0.000 min
Lab File: VW032429.D
Acq: 11 Nov 2025 14:37

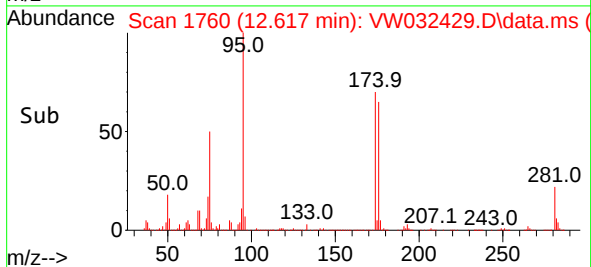
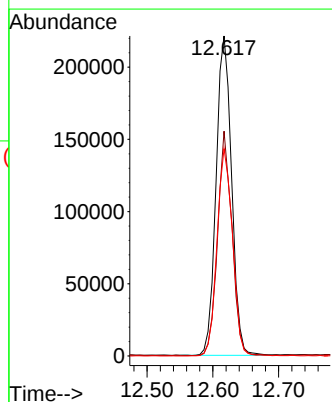
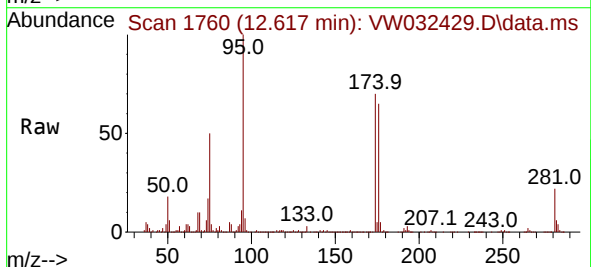
Instrument :
MSVOA_W
ClientSampleId :

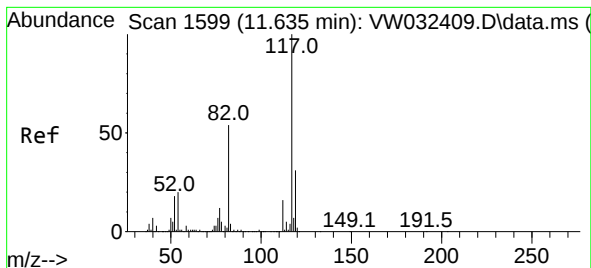
Tgt Ion: 98 Resp: 912882
Ion Ratio Lower Upper
98 100
100 66.2 53.3 79.9



#62
4-Bromofluorobenzene
Concen: 65.593 ug/l
RT: 12.617 min Scan# 1760
Delta R.T. 0.000 min
Lab File: VW032429.D
Acq: 11 Nov 2025 14:37

Tgt Ion: 95 Resp: 363244
Ion Ratio Lower Upper
95 100
174 65.1 0.0 135.4
176 65.2 0.0 131.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.629 min Scan# 1

Delta R.T. -0.006 min

Lab File: VW032429.D

Acq: 11 Nov 2025 14:37

Instrument :

MSVOA_W

ClientSampleId :

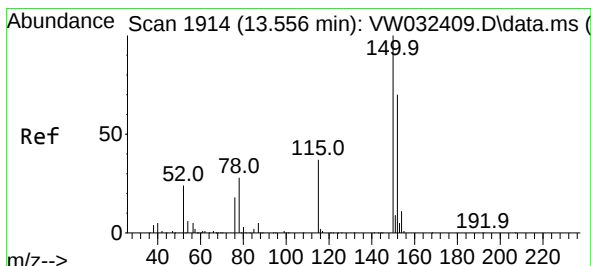
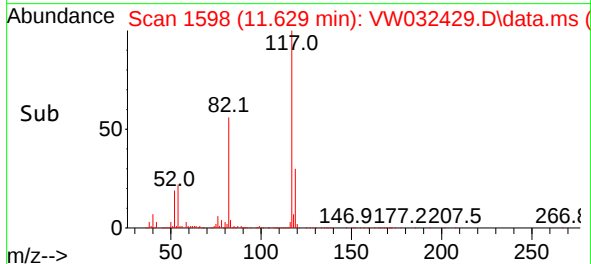
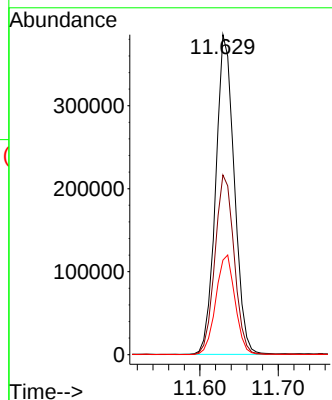
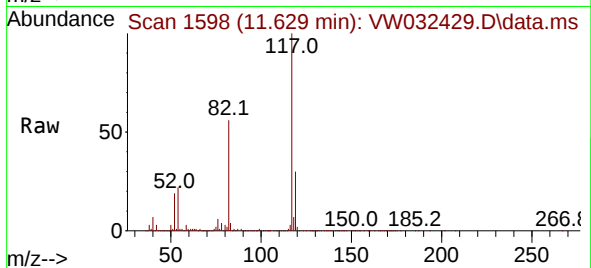
Tgt Ion:117 Resp: 636430

Ion Ratio Lower Upper

117 100

82 56.2 43.0 64.4

119 29.5 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: VW032429.D

Acq: 11 Nov 2025 14:37

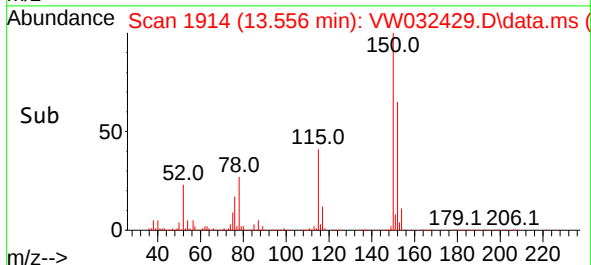
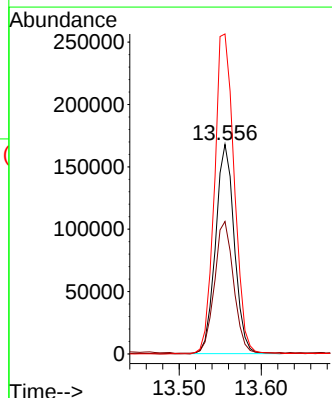
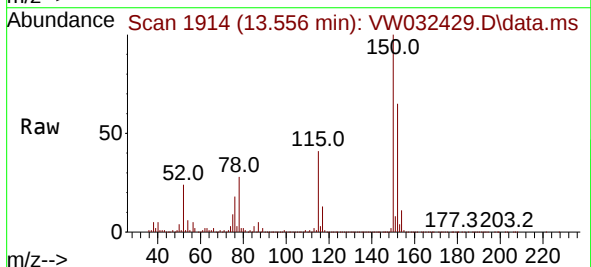
Tgt Ion:152 Resp: 265404

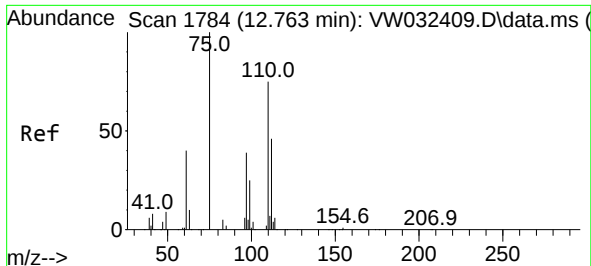
Ion Ratio Lower Upper

152 100

115 64.2 32.8 98.3

150 161.5 0.0 356.6

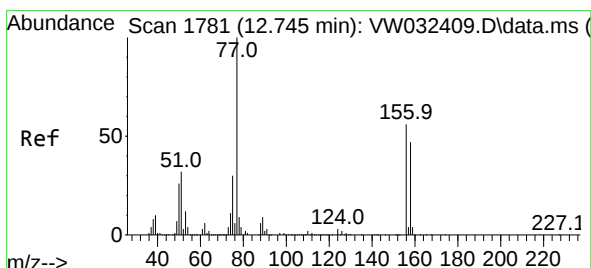
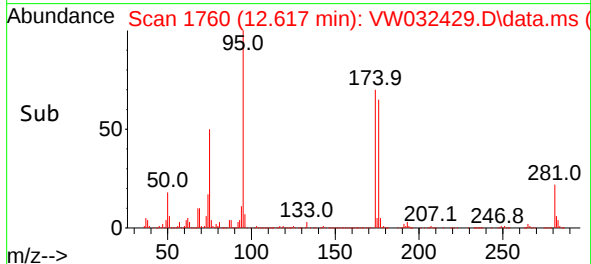
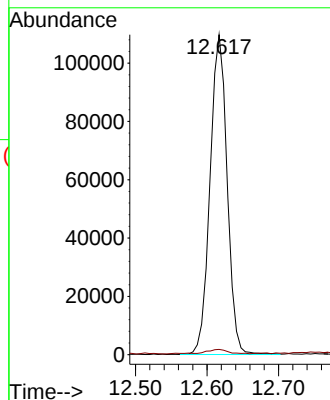
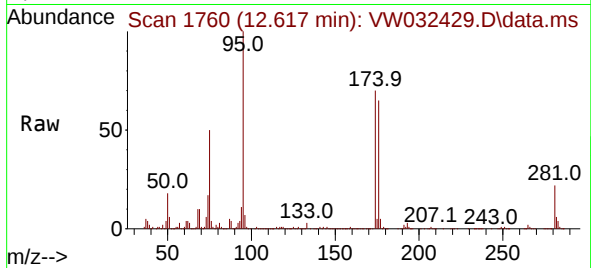




#76
1,2,3-Trichloropropane
Concen: 50.041 ug/l
RT: 12.617 min Scan# 1790
Delta R.T. -0.146 min
Lab File: VW032429.D
Acq: 11 Nov 2025 14:37

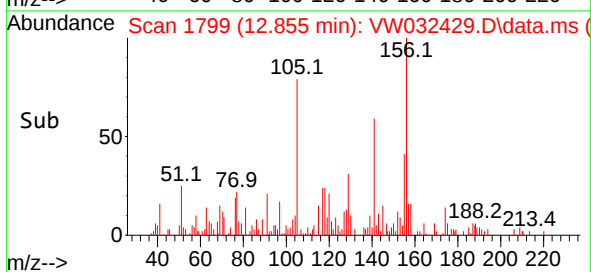
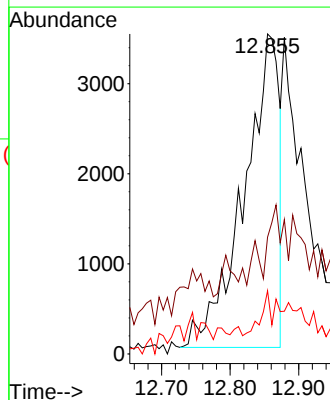
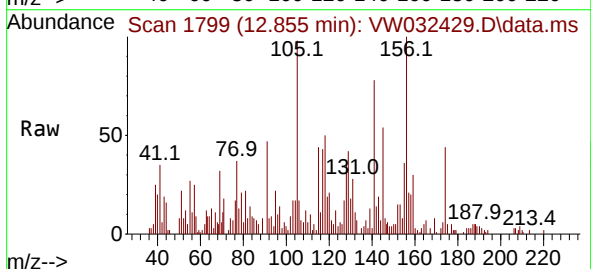
Instrument :
MSVOA_W
ClientSampleId :

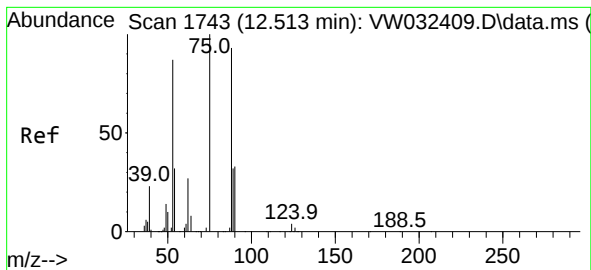
Tgt Ion: 75 Resp: 182104
Ion Ratio Lower Upper
75 100
77 1.5 151.6 454.8#



#77
Bromobenzene
Concen: 2.666 ug/l
RT: 12.855 min Scan# 1799
Delta R.T. 0.110 min
Lab File: VW032429.D
Acq: 11 Nov 2025 14:37

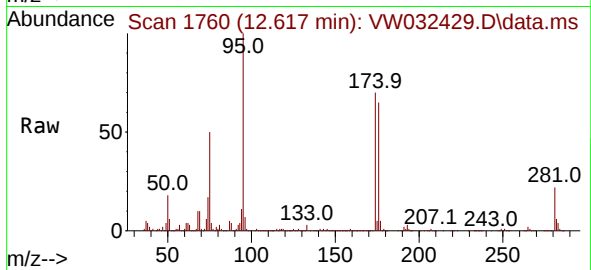
Tgt Ion:156 Resp: 12306
Ion Ratio Lower Upper
156 100
77 9.4 108.0 324.0#
158 3.1 45.1 135.5#





#81
trans-1,4-Dichloro-2-butene
Concen: 114.615 ug/l
RT: 12.617 min Scan# 11
Delta R.T. 0.104 min
Lab File: VW032429.D
Acq: 11 Nov 2025 14:37

Instrument :
MSVOA_W
ClientSampleId :



Tgt Ion: 75 Resp: 182104
Ion Ratio Lower Upper
75 100
53 0.2 77.8 116.8#
89 1.1 35.6 53.4#

