

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111125\
 Data File : VW032427.D
 Acq On : 11 Nov 2025 13:54
 Operator : SY/MD
 Sample : Q3586-01
 Misc : 8.12g/5mL/MSVOA_W/SOIL/A
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :

Quant Time: Nov 12 03:49:23 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)

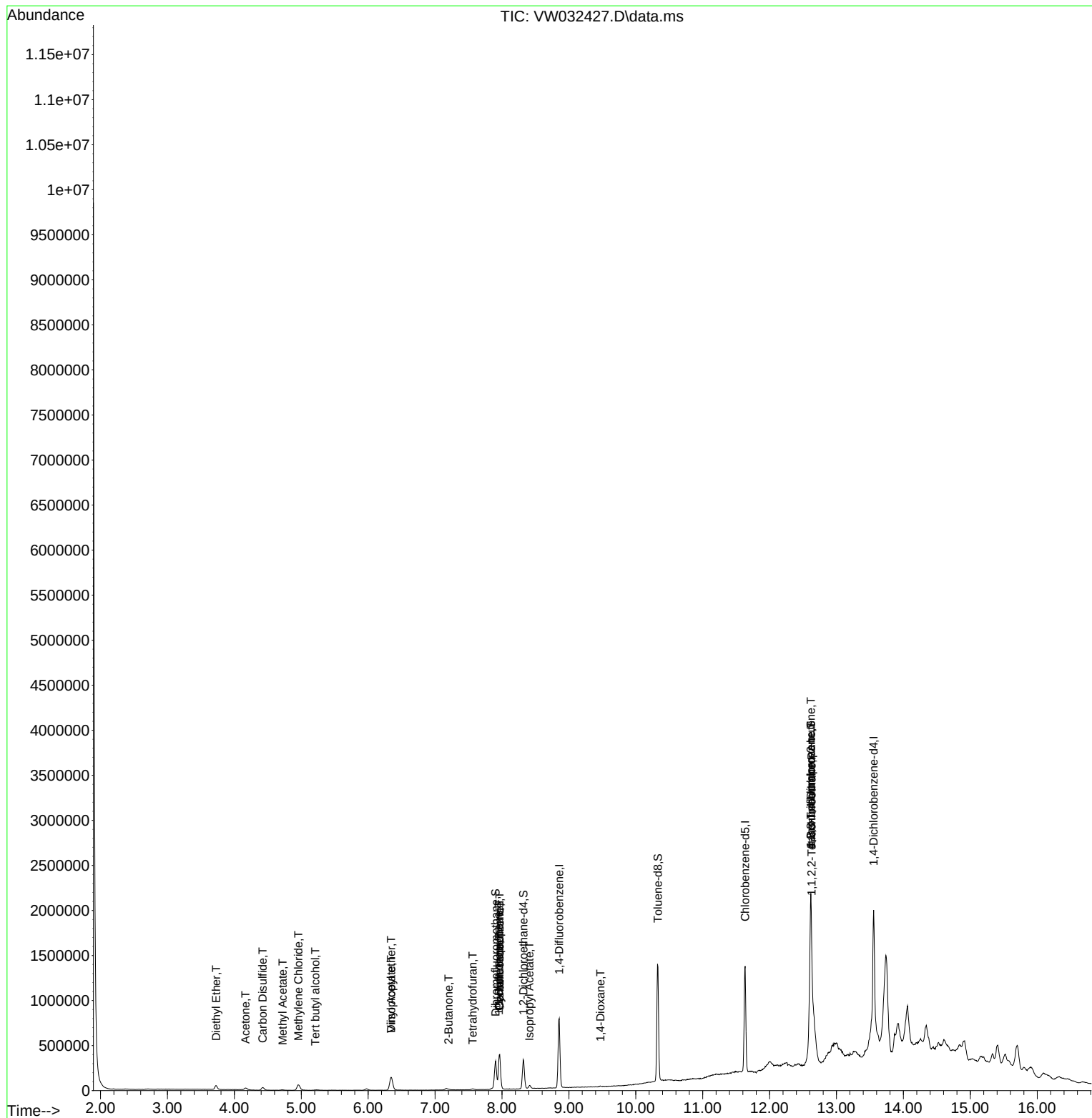
Internal Standards						
1) Pentafluorobenzene	7.965	168	286762	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.855	114	660595	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.635	117	665967	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.556	152	321294	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.319	65	255006	68.976	ug/l	0.00
Spiked Amount	50.000	Range 63 - 155	Recovery	= 137.960%		
35) Dibromofluoromethane	7.904	113	227087	57.416	ug/l	0.00
Spiked Amount	50.000	Range 70 - 134	Recovery	= 114.840%		
50) Toluene-d8	10.331	98	883087	58.200	ug/l	0.00
Spiked Amount	50.000	Range 74 - 123	Recovery	= 116.400%		
62) 4-Bromofluorobenzene	12.617	95	564943	98.562	ug/l	0.00
Spiked Amount	50.000	Range 17 - 146	Recovery	= 197.120%#		
Target Compounds						
						Qvalue
8) Diethyl Ether	3.728	74	24930	12.357	ug/l	99
11) Tert butyl alcohol	5.210	59	3254	10.179	ug/l	100
16) Acetone	4.167	43	33721	30.487	ug/l	99
17) Carbon Disulfide	4.423	76	67290	7.386	ug/l	99
18) Methyl Acetate	4.722	43	10476	3.825	ug/l	97
20) Methylene Chloride	4.960	84	49923	12.621	ug/l	97
22) Diisopropyl ether	6.344	45	195313	16.184	ug/l	90
23) Vinyl Acetate	6.344	43	98864	11.957	ug/l #	72
25) 2-Butanone	7.203	43	8172	5.015	ug/l	92
29) Tetrahydrofuran	7.563	42	7498	7.250	ug/l	91
31) Cyclohexane	7.959	56	7454	1.219	ug/l #	1
36) 1,1-Dichloropropene	7.953	75	24461	4.198	ug/l #	54
38) Carbon Tetrachloride	7.965	117	29612	5.719	ug/l #	14
43) Isopropyl Acetate	8.410	43	8320	1.084	ug/l #	54
49) 1,4-Dioxane	9.471	88	6779	177.211	ug/l #	73
75) 1,1,2,2-Tetrachloroethane	12.629	83	278529	49.736	ug/l #	26
76) 1,2,3-Trichloropropane	12.617	75	179789	40.810	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.617	75	179789	93.474	ug/l #	35

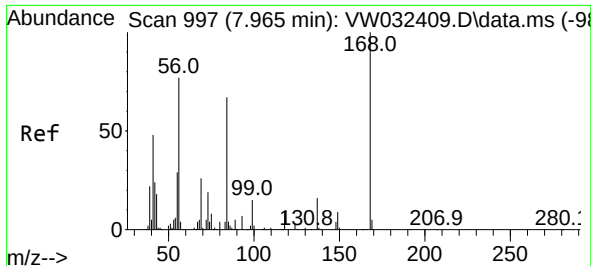
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Tue Nov 11 03:48:21 2025
Response via : Initial Calibration

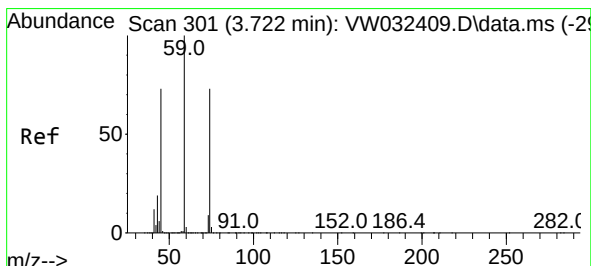
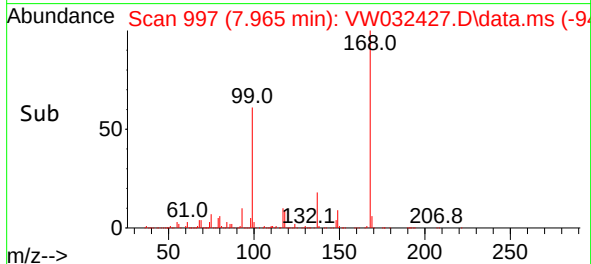
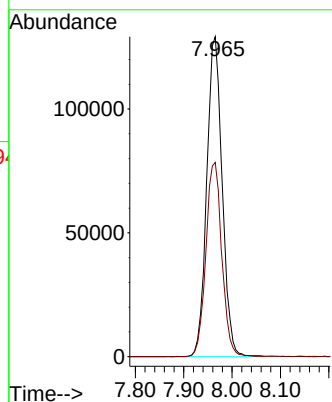
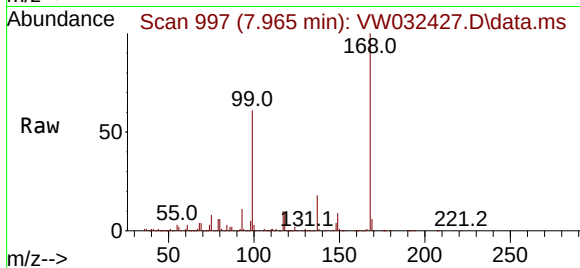




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.965 min Scan# 99
Delta R.T. 0.000 min
Lab File: VW032427.D
Acq: 11 Nov 2025 13:54

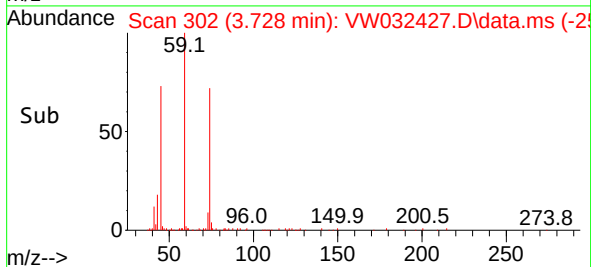
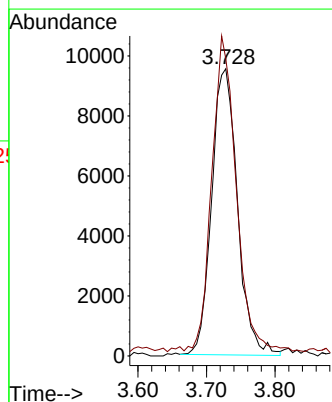
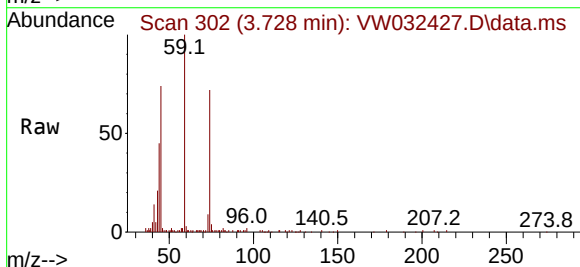
Instrument :
MSVOA_W
ClientSampleId :

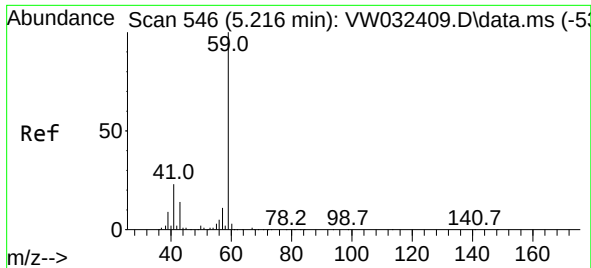
Tgt Ion:168 Resp: 286762
Ion Ratio Lower Upper
168 100
99 60.7 45.4 68.2



#8
Diethyl Ether
Concen: 12.357 ug/l
RT: 3.728 min Scan# 302
Delta R.T. 0.006 min
Lab File: VW032427.D
Acq: 11 Nov 2025 13:54

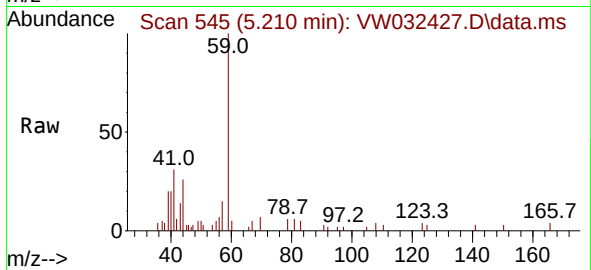
Tgt Ion: 74 Resp: 24930
Ion Ratio Lower Upper
74 100
45 104.2 51.8 155.4



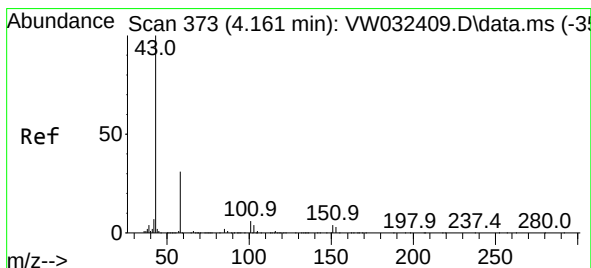
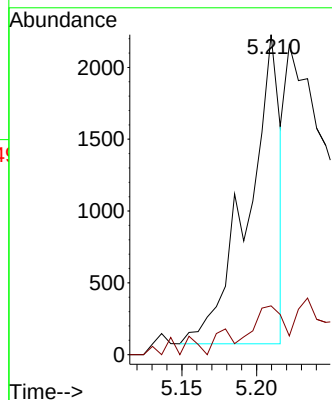
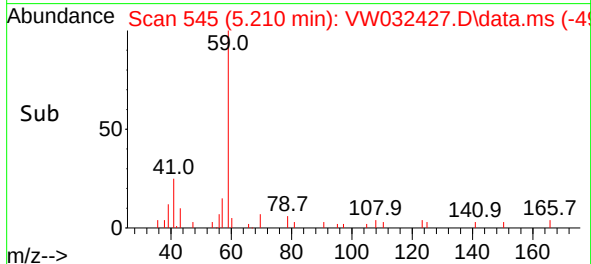


#11
Tert butyl alcohol
Concen: 10.179 ug/l
RT: 5.210 min Scan# 546
Delta R.T. -0.006 min
Lab File: VW032427.D
Acq: 11 Nov 2025 13:54

Instrument :
MSVOA_W
ClientSampleId :

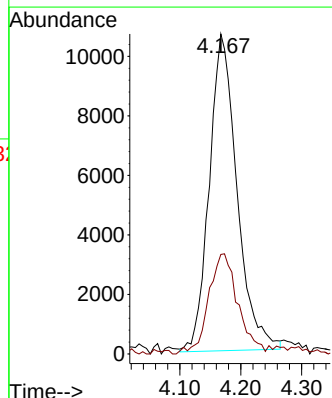
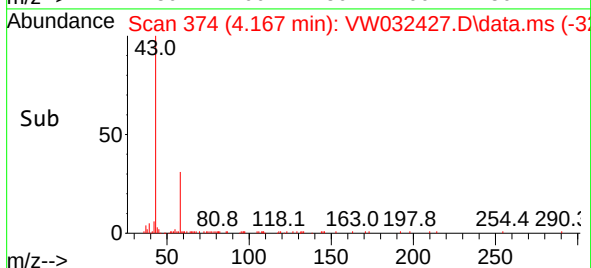
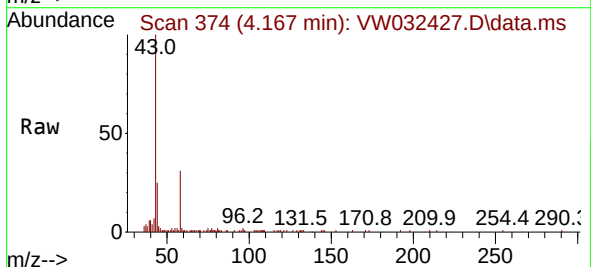


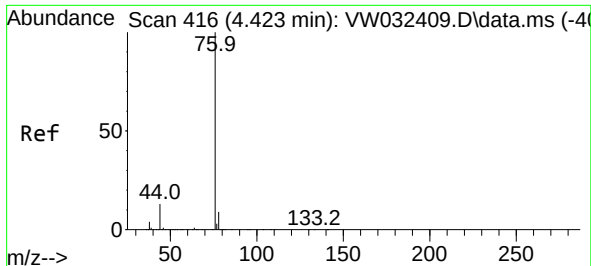
Tgt Ion: 59 Resp: 3254
Ion Ratio Lower Upper
59 100
57 10.7 8.6 12.8



#16
Acetone
Concen: 30.487 ug/l
RT: 4.167 min Scan# 374
Delta R.T. 0.006 min
Lab File: VW032427.D
Acq: 11 Nov 2025 13:54

Tgt Ion: 43 Resp: 33721
Ion Ratio Lower Upper
43 100
58 30.6 24.8 37.2

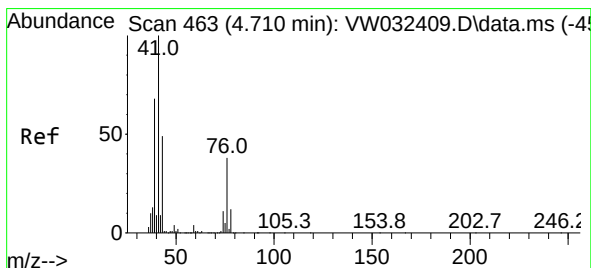
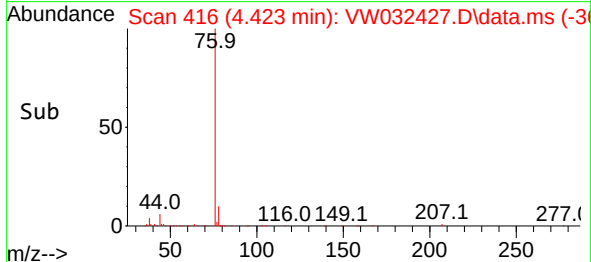
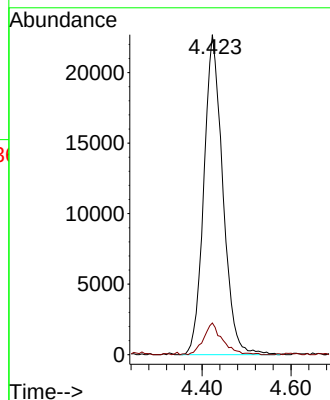
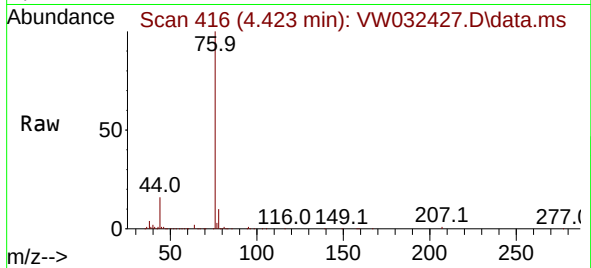




#17
Carbon Disulfide
Concen: 7.386 ug/l
RT: 4.423 min Scan# 416
Delta R.T. 0.000 min
Lab File: VW032427.D
Acq: 11 Nov 2025 13:54

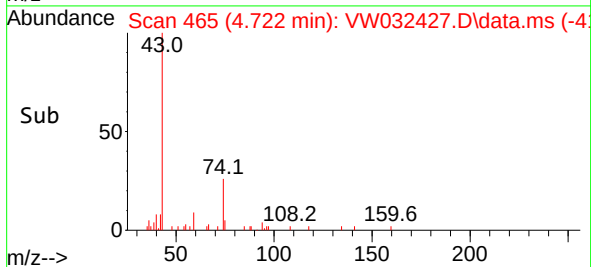
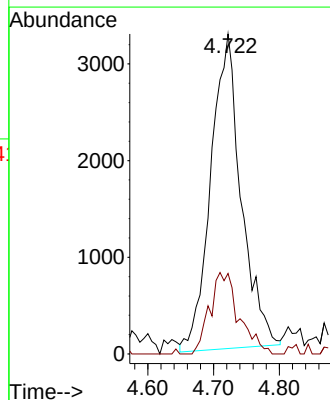
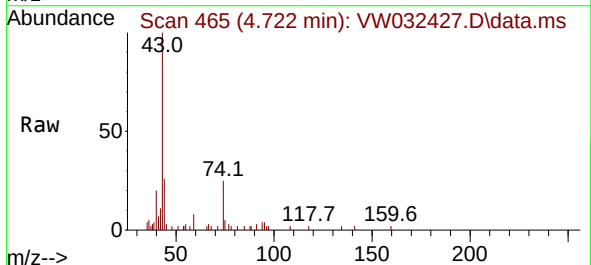
Instrument :
MSVOA_W
ClientSampleId :

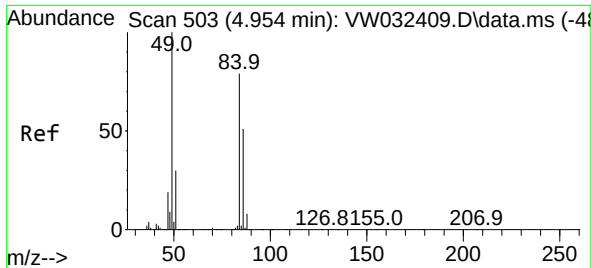
Tgt Ion: 76 Resp: 67290
Ion Ratio Lower Upper
76 100
78 9.9 7.6 11.4



#18
Methyl Acetate
Concen: 3.825 ug/l
RT: 4.722 min Scan# 465
Delta R.T. 0.012 min
Lab File: VW032427.D
Acq: 11 Nov 2025 13:54

Tgt Ion: 43 Resp: 10476
Ion Ratio Lower Upper
43 100
74 24.9 18.9 28.3



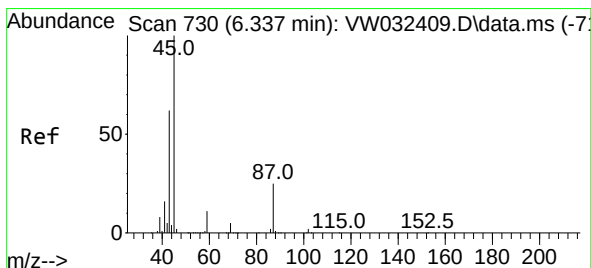
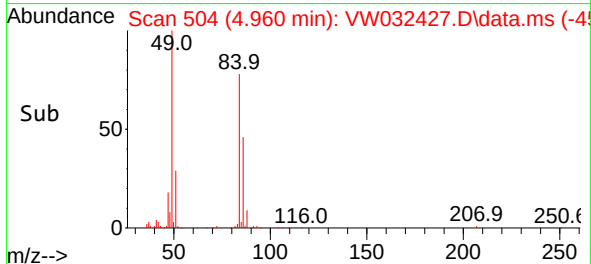
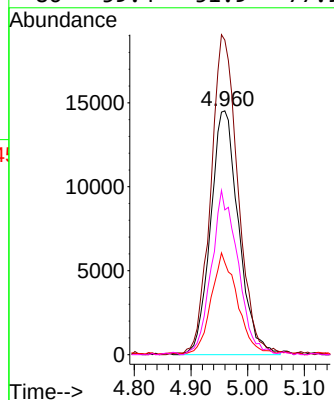
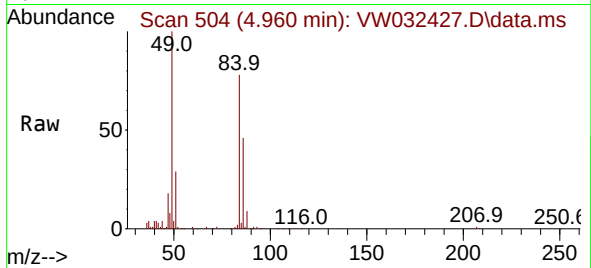


#20
Methylene Chloride
Concen: 12.621 ug/l
RT: 4.960 min Scan# 503
Delta R.T. 0.006 min
Lab File: VW032427.D
Acq: 11 Nov 2025 13:54

Instrument :
MSVOA_W
ClientSampleId :

Tgt Ion: 84 Resp: 49923

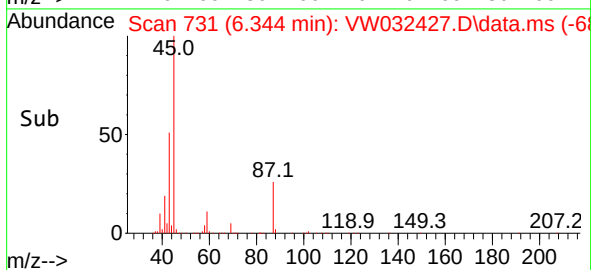
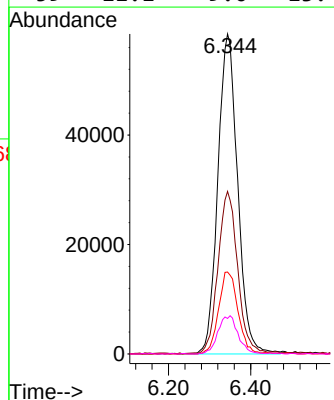
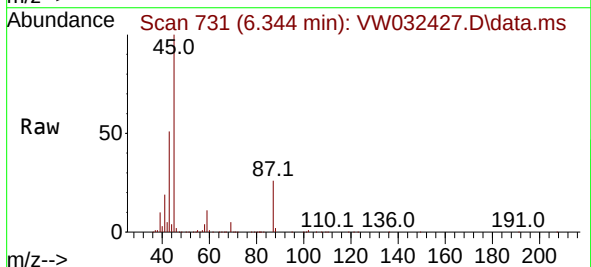
Ion	Ratio	Lower	Upper
84	100		
49	128.3	101.5	152.3
51	37.2	30.6	46.0
86	59.4	51.9	77.9

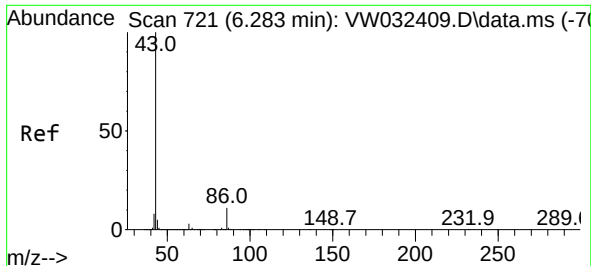


#22
Diisopropyl ether
Concen: 16.184 ug/l
RT: 6.344 min Scan# 731
Delta R.T. 0.006 min
Lab File: VW032427.D
Acq: 11 Nov 2025 13:54

Tgt Ion: 45 Resp: 195313

Ion	Ratio	Lower	Upper
45	100		
43	50.5	49.4	74.2
87	25.6	20.1	30.1
59	11.1	9.0	13.4

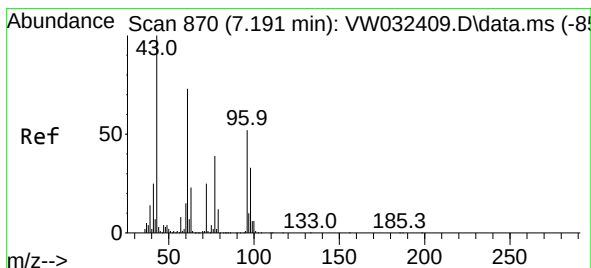
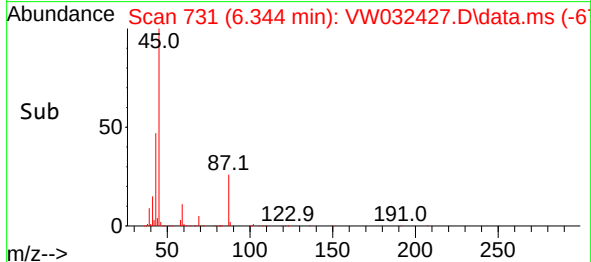
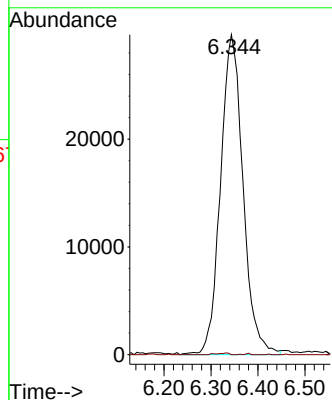
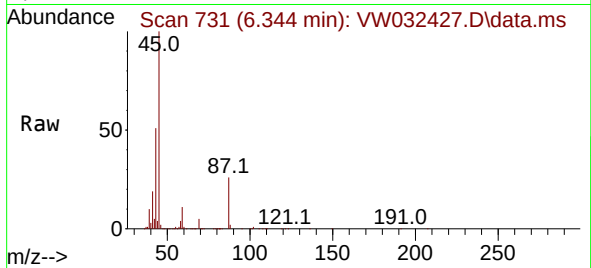




#23
 Vinyl Acetate
 Concen: 11.957 ug/l
 RT: 6.344 min Scan# 71
 Delta R.T. 0.061 min
 Lab File: VW032427.D
 Acq: 11 Nov 2025 13:54

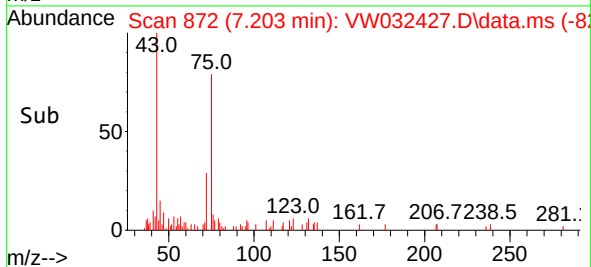
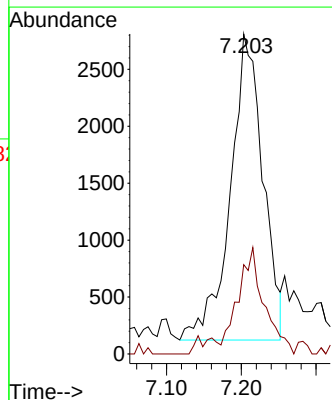
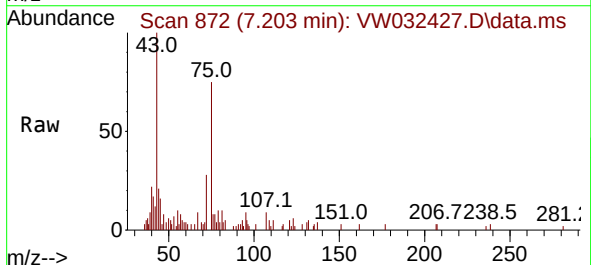
Instrument :
 MSVOA_W
 ClientSampleId :

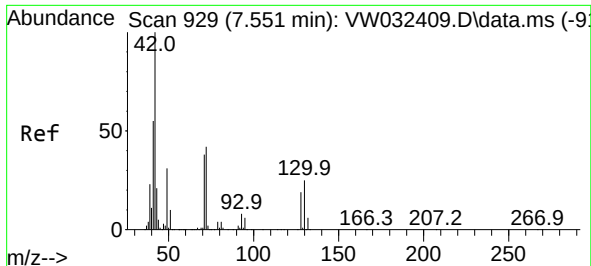
Tgt Ion: 43 Resp: 98864
 Ion Ratio Lower Upper
 43 100
 86 0.0 8.6 12.8#



#25
 2-Butanone
 Concen: 5.015 ug/l
 RT: 7.203 min Scan# 872
 Delta R.T. 0.012 min
 Lab File: VW032427.D
 Acq: 11 Nov 2025 13:54

Tgt Ion: 43 Resp: 8172
 Ion Ratio Lower Upper
 43 100
 72 29.2 20.0 30.0





#29

Tetrahydrofuran

Concen: 7.250 ug/l

RT: 7.563 min Scan# 91

Delta R.T. 0.012 min

Lab File: VW032427.D

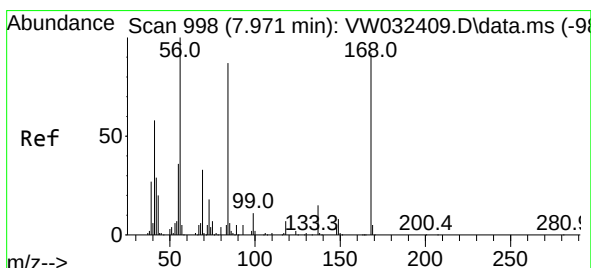
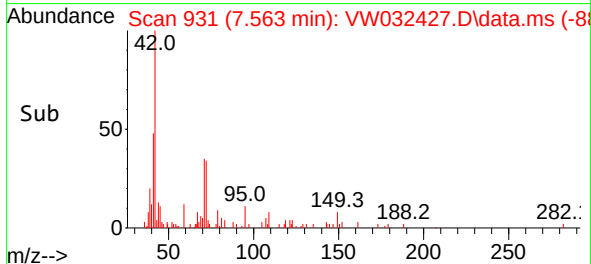
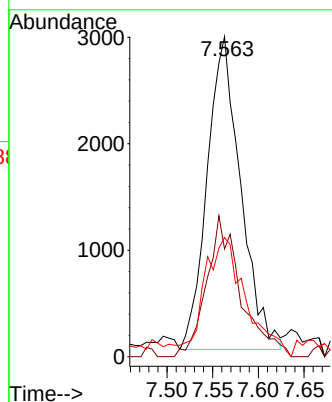
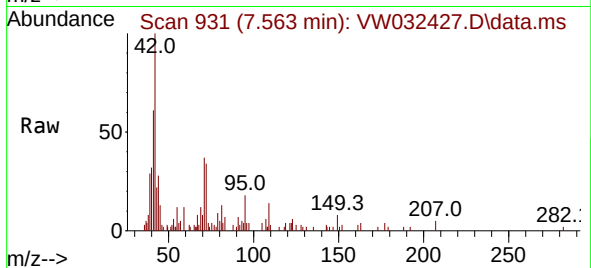
Acq: 11 Nov 2025 13:54

Instrument :

MSVOA_W

ClientSampleId :

Tgt Ion:	42	Resp:	7498
Ion	Ratio	Lower	Upper
42	100		
72	45.9	33.6	50.4
71	46.8	31.4	47.0



#31

Cyclohexane

Concen: 1.219 ug/l

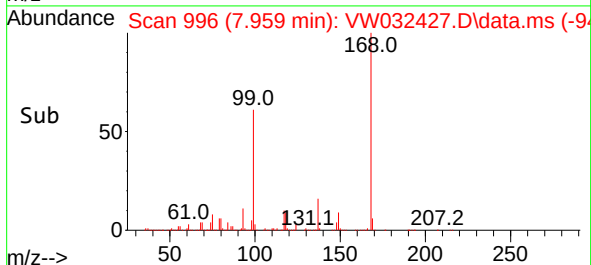
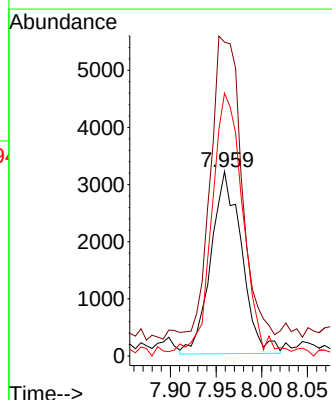
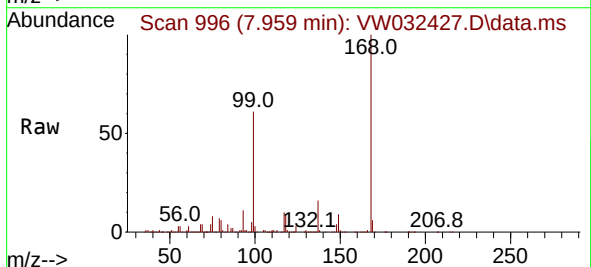
RT: 7.959 min Scan# 996

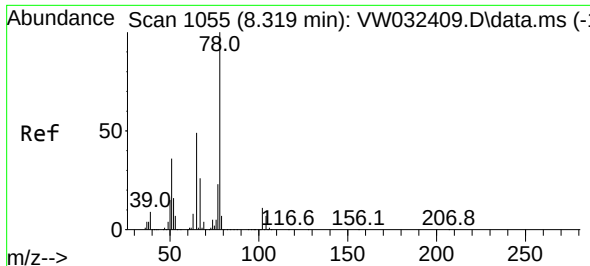
Delta R.T. -0.012 min

Lab File: VW032427.D

Acq: 11 Nov 2025 13:54

Tgt Ion:	56	Resp:	7454
Ion	Ratio	Lower	Upper
56	100		
69	162.0	26.5	39.7#
84	142.0	69.6	104.4#

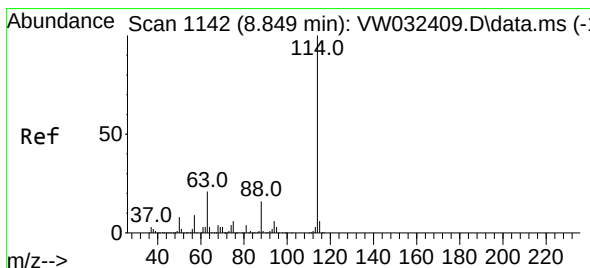
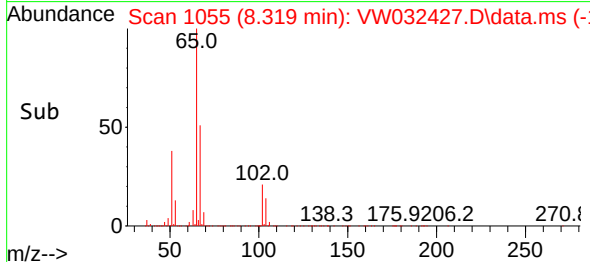
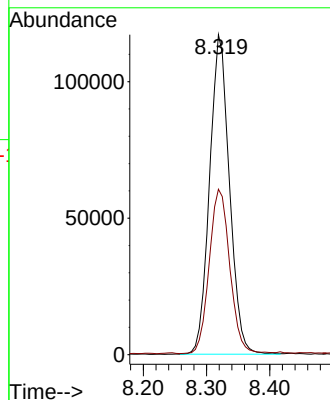
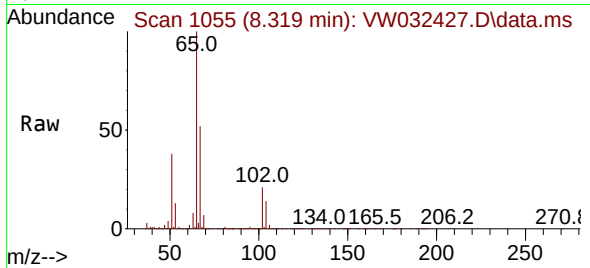




#33
 1,2-Dichloroethane-d4
 Concen: 68.976 ug/l
 RT: 8.319 min Scan# 1105
 Delta R.T. 0.000 min
 Lab File: VW032427.D
 Acq: 11 Nov 2025 13:54

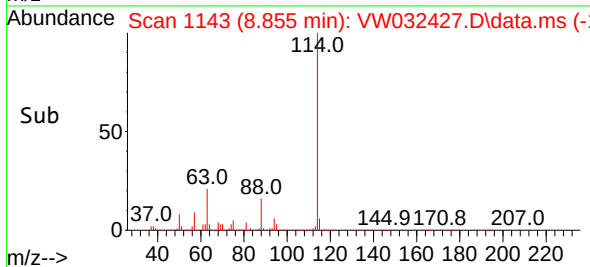
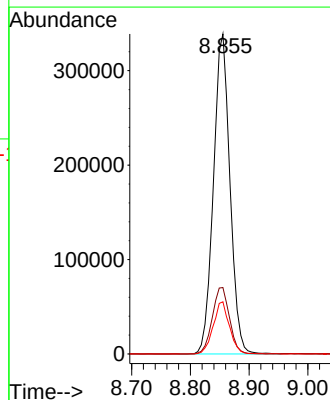
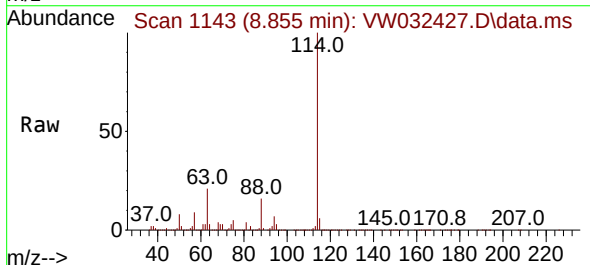
Instrument :
 MSVOA_W
 ClientSampleId :

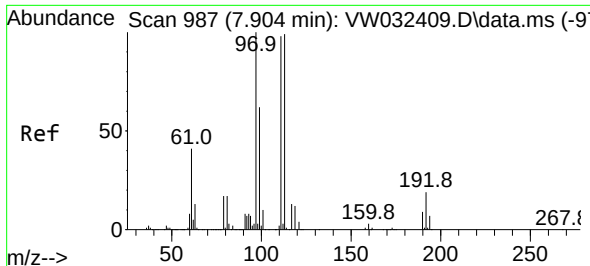
Tgt Ion: 65 Resp: 255006
 Ion Ratio Lower Upper
 65 100
 67 53.3 0.0 106.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.855 min Scan# 1143
 Delta R.T. 0.006 min
 Lab File: VW032427.D
 Acq: 11 Nov 2025 13:54

Tgt Ion: 114 Resp: 660595
 Ion Ratio Lower Upper
 114 100
 63 20.7 0.0 41.8
 88 16.3 0.0 32.6

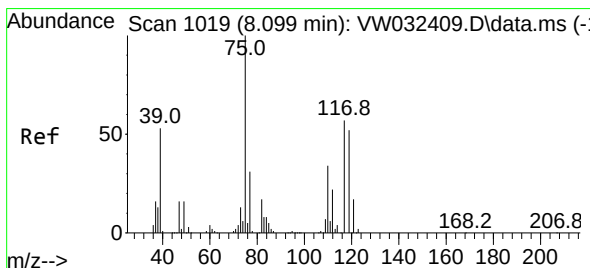
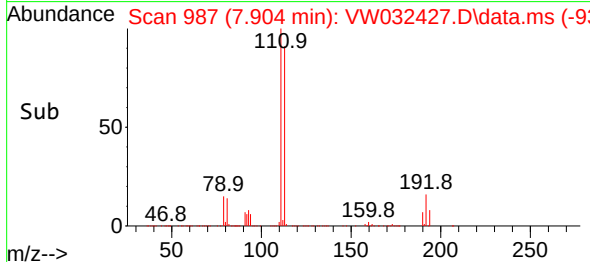
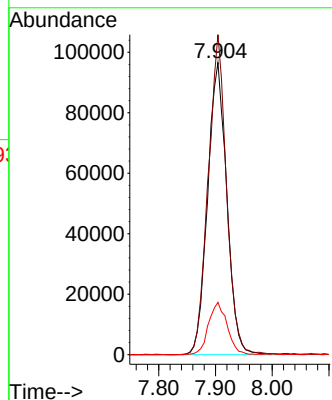
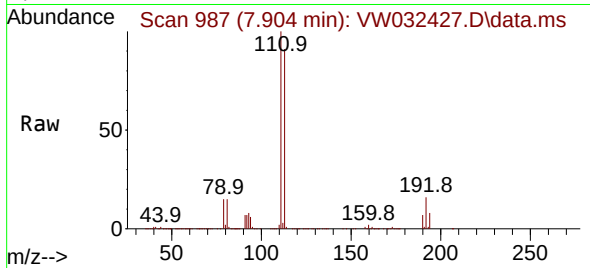




#35
Dibromofluoromethane
Concen: 57.416 ug/l
RT: 7.904 min Scan# 91
Delta R.T. 0.000 min
Lab File: VW032427.D
Acq: 11 Nov 2025 13:54

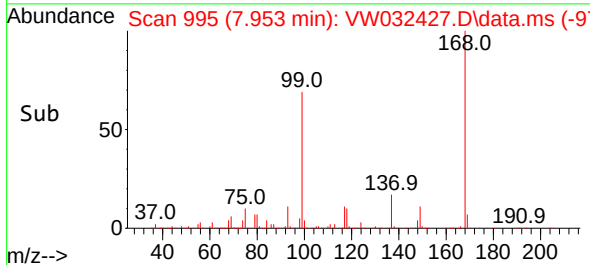
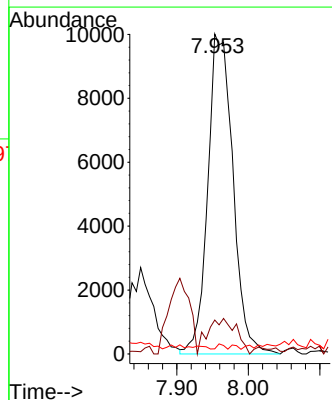
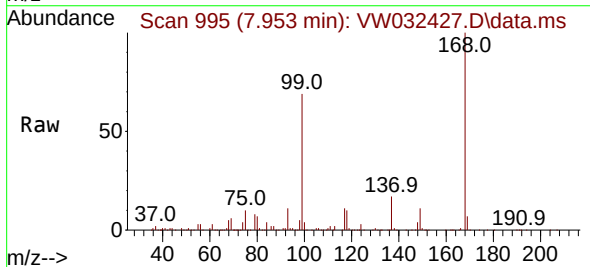
Instrument :
MSVOA_W
ClientSampleId :

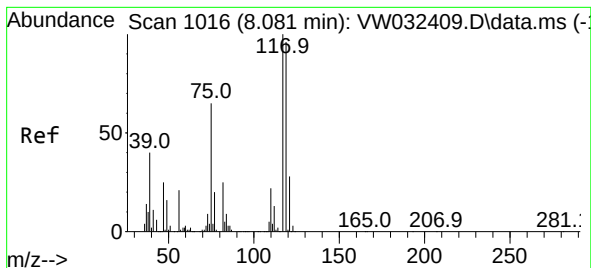
Tgt Ion:113 Resp: 227087
Ion Ratio Lower Upper
113 100
111 104.9 83.1 124.7
192 17.5 13.4 20.2



#36
1,1-Dichloropropene
Concen: 4.198 ug/l
RT: 7.953 min Scan# 995
Delta R.T. -0.146 min
Lab File: VW032427.D
Acq: 11 Nov 2025 13:54

Tgt Ion: 75 Resp: 24461
Ion Ratio Lower Upper
75 100
110 12.6 17.2 51.5#
77 0.4 24.5 36.7#





#38

Carbon Tetrachloride

Concen: 5.719 ug/l

RT: 7.965 min Scan# 997

Delta R.T. -0.116 min

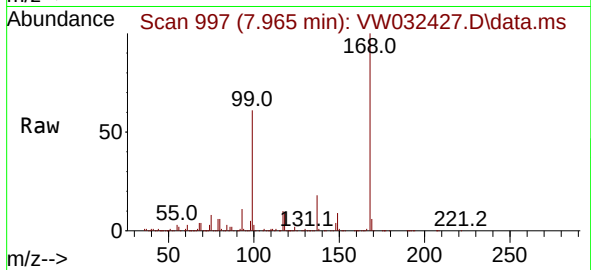
Lab File: VW032427.D

Acq: 11 Nov 2025 13:54

Instrument :

MSVOA_W

ClientSampleId :



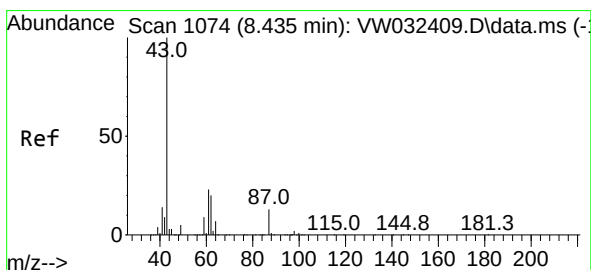
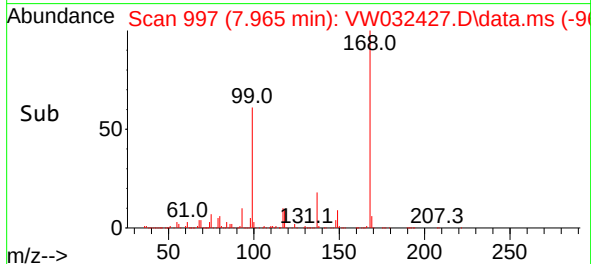
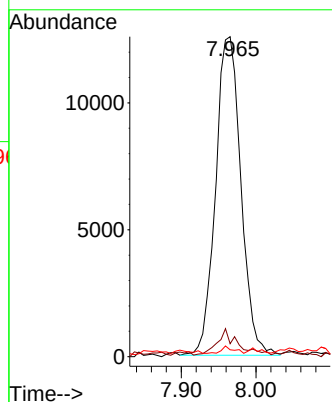
Tgt Ion:117 Resp: 29612

Ion Ratio Lower Upper

117 100

119 3.3 77.0 115.4#

121 0.1 22.0 33.0#



#43

Isopropyl Acetate

Concen: 1.084 ug/l

RT: 8.410 min Scan# 1070

Delta R.T. -0.024 min

Lab File: VW032427.D

Acq: 11 Nov 2025 13:54

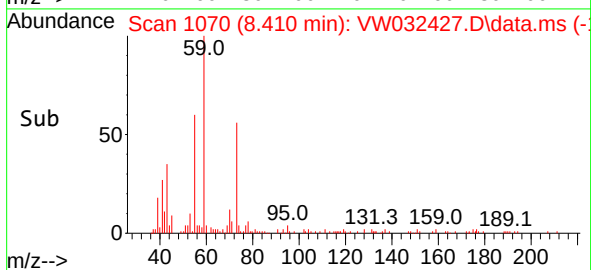
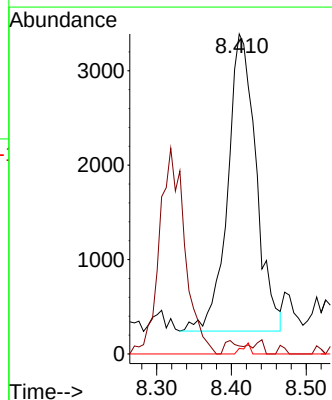
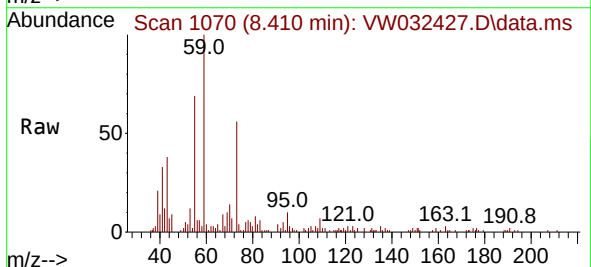
Tgt Ion: 43 Resp: 8320

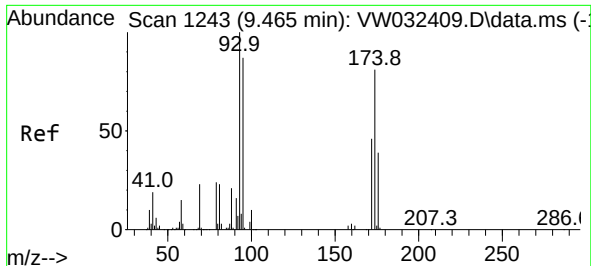
Ion Ratio Lower Upper

43 100

61 0.0 22.6 33.8#

87 1.0 10.6 15.8#





#49

1,4-Dioxane

Concen: 177.211 ug/l

RT: 9.471 min Scan# 11

Delta R.T. 0.006 min

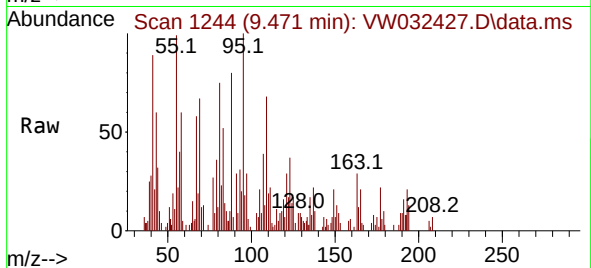
Lab File: VW032427.D

Acq: 11 Nov 2025 13:54

Instrument :

MSVOA_W

ClientSampleId :



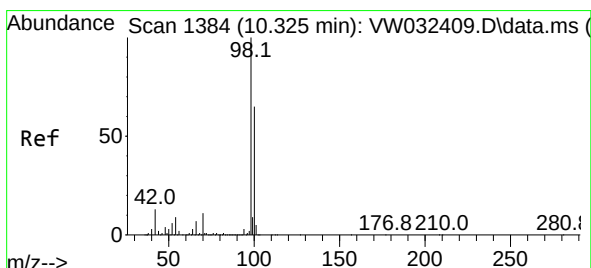
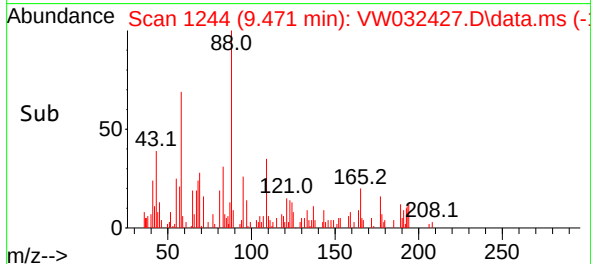
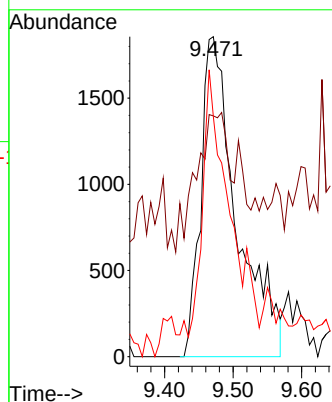
Tgt Ion: 88 Resp: 6779

Ion Ratio Lower Upper

88 100

43 39.7 0.0 0.0#

58 54.9 63.0 94.4#



#50

Toluene-d8

Concen: 58.200 ug/l

RT: 10.331 min Scan# 1385

Delta R.T. 0.006 min

Lab File: VW032427.D

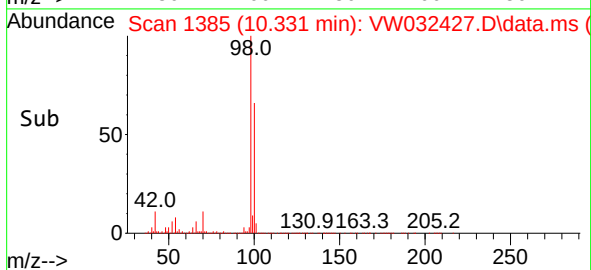
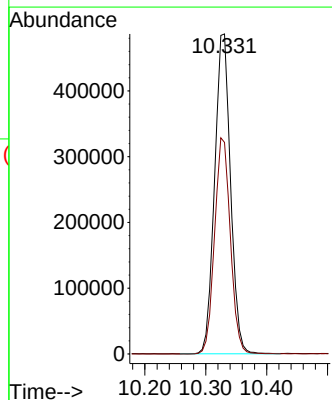
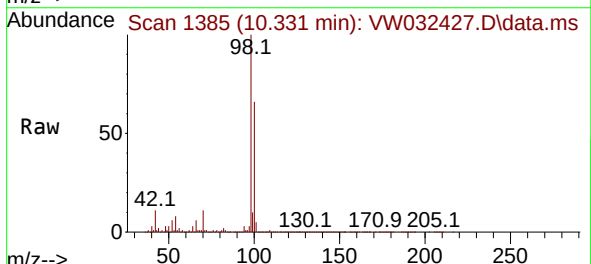
Acq: 11 Nov 2025 13:54

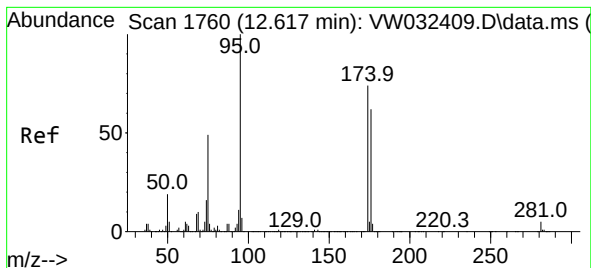
Tgt Ion: 98 Resp: 883087

Ion Ratio Lower Upper

98 100

100 67.1 53.3 79.9

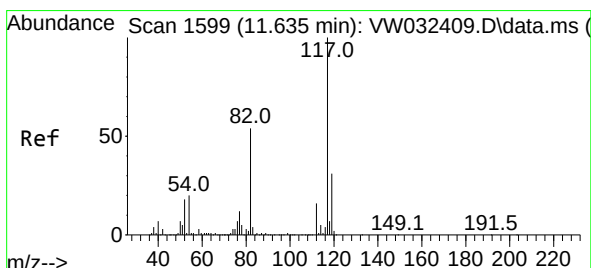
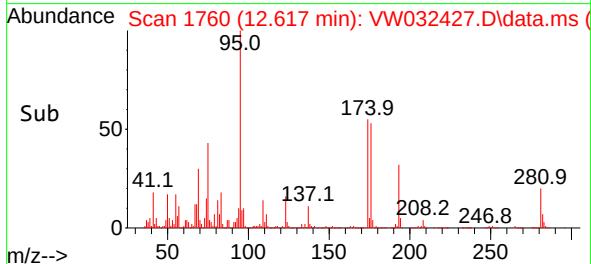
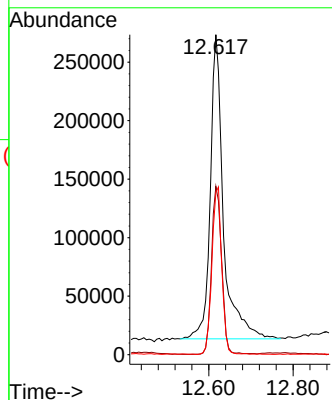
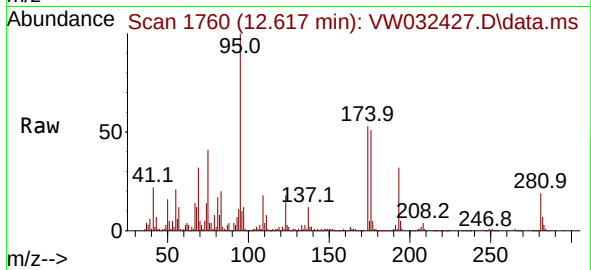




#62
4-Bromofluorobenzene
Concen: 98.562 ug/l
RT: 12.617 min Scan# 1760
Delta R.T. 0.000 min
Lab File: VW032427.D
Acq: 11 Nov 2025 13:54

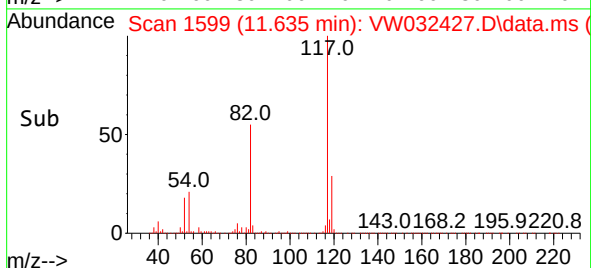
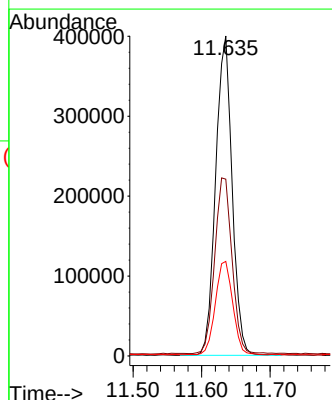
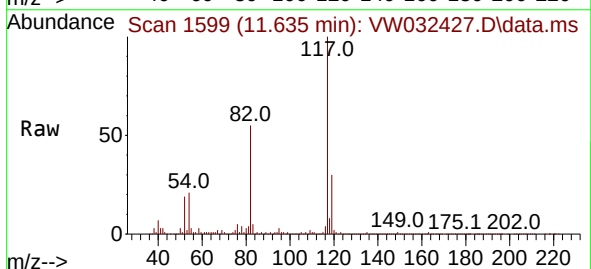
Instrument :
MSVOA_W
ClientSampleId :

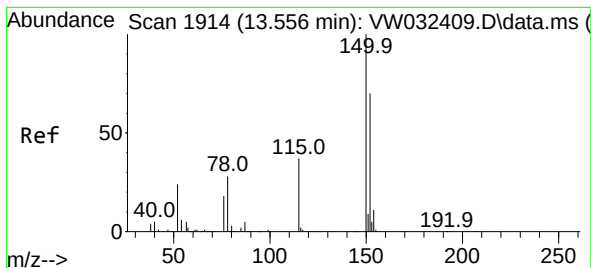
Tgt Ion: 95 Resp: 564943
Ion Ratio Lower Upper
95 100
174 42.9 0.0 135.4
176 41.0 0.0 131.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.635 min Scan# 1599
Delta R.T. 0.000 min
Lab File: VW032427.D
Acq: 11 Nov 2025 13:54

Tgt Ion: 117 Resp: 665967
Ion Ratio Lower Upper
117 100
82 54.5 43.0 64.4
119 29.2 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: VW032427.D

Acq: 11 Nov 2025 13:54

Instrument :

MSVOA_W

ClientSampleId :

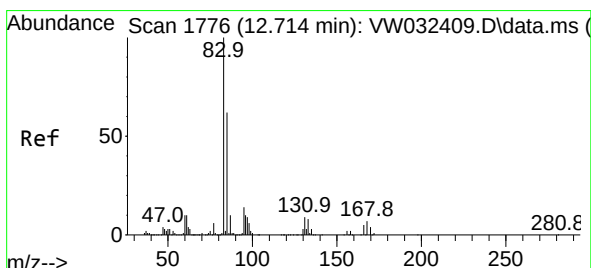
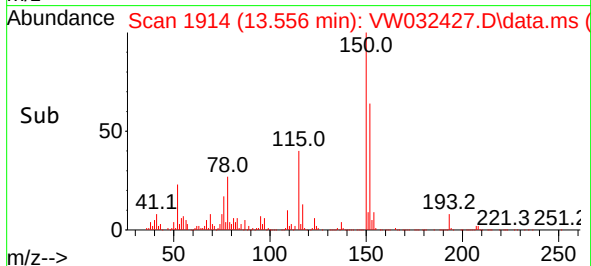
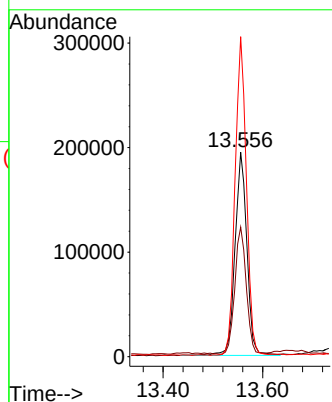
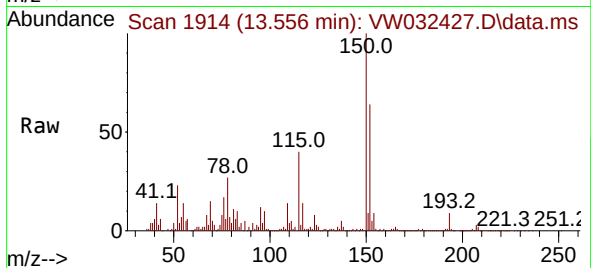
Tgt Ion:152 Resp: 321294

Ion Ratio Lower Upper

152 100

115 60.3 32.8 98.3

150 148.6 0.0 356.6



#75

1,1,2,2-Tetrachloroethane

Concen: 49.736 ug/l

RT: 12.629 min Scan# 1762

Delta R.T. -0.085 min

Lab File: VW032427.D

Acq: 11 Nov 2025 13:54

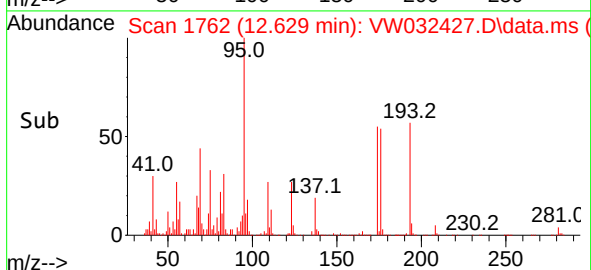
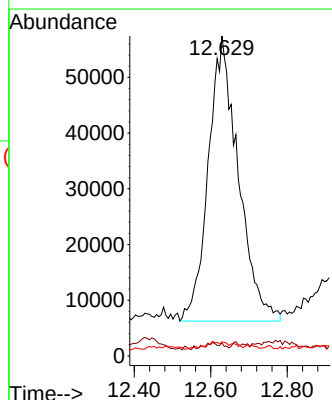
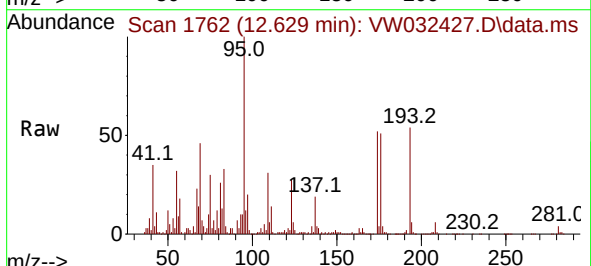
Tgt Ion: 83 Resp: 278529

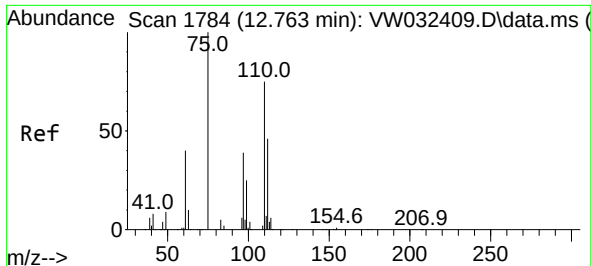
Ion Ratio Lower Upper

83 100

131 0.0 5.0 14.9#

85 0.0 31.6 94.8#

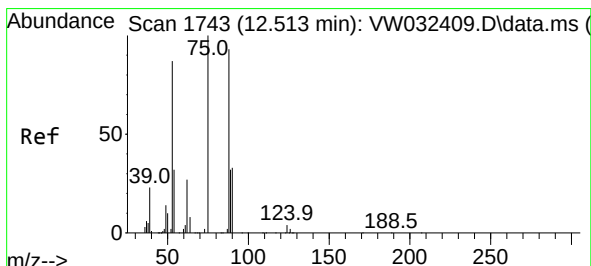
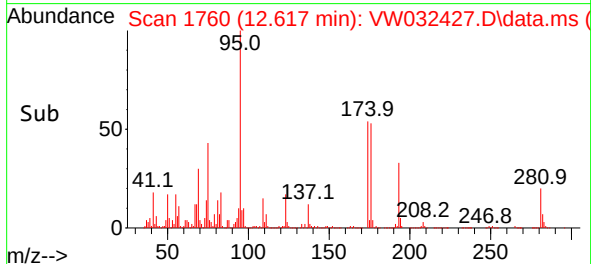
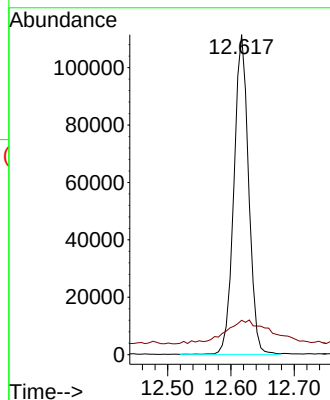
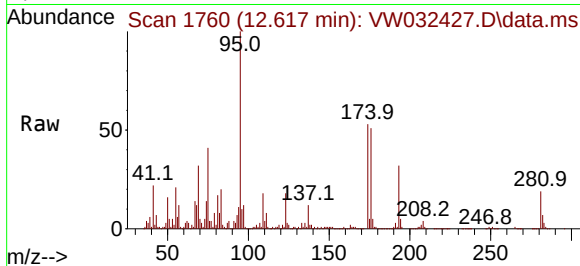




#76
1,2,3-Trichloropropane
Concen: 40.810 ug/l
RT: 12.617 min Scan# 1760
Delta R.T. -0.146 min
Lab File: VW032427.D
Acq: 11 Nov 2025 13:54

Instrument :
MSVOA_W
ClientSampleId :

Tgt Ion: 75 Resp: 179789
Ion Ratio Lower Upper
75 100
77 23.3 151.6 454.8#



#81
trans-1,4-Dichloro-2-butene
Concen: 93.474 ug/l
RT: 12.617 min Scan# 1760
Delta R.T. 0.104 min
Lab File: VW032427.D
Acq: 11 Nov 2025 13:54

Tgt Ion: 75 Resp: 179789
Ion Ratio Lower Upper
75 100
53 35.4 77.8 116.8#
89 0.0 35.6 53.4#

