

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111125\
 Data File : VW032426.D
 Acq On : 11 Nov 2025 13:32
 Operator : SY/MD
 Sample : Q3582-04
 Misc : 4.79g/5mL/MSVOA_W/SOIL/A
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :

Quant Time: Nov 12 03:49:04 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)

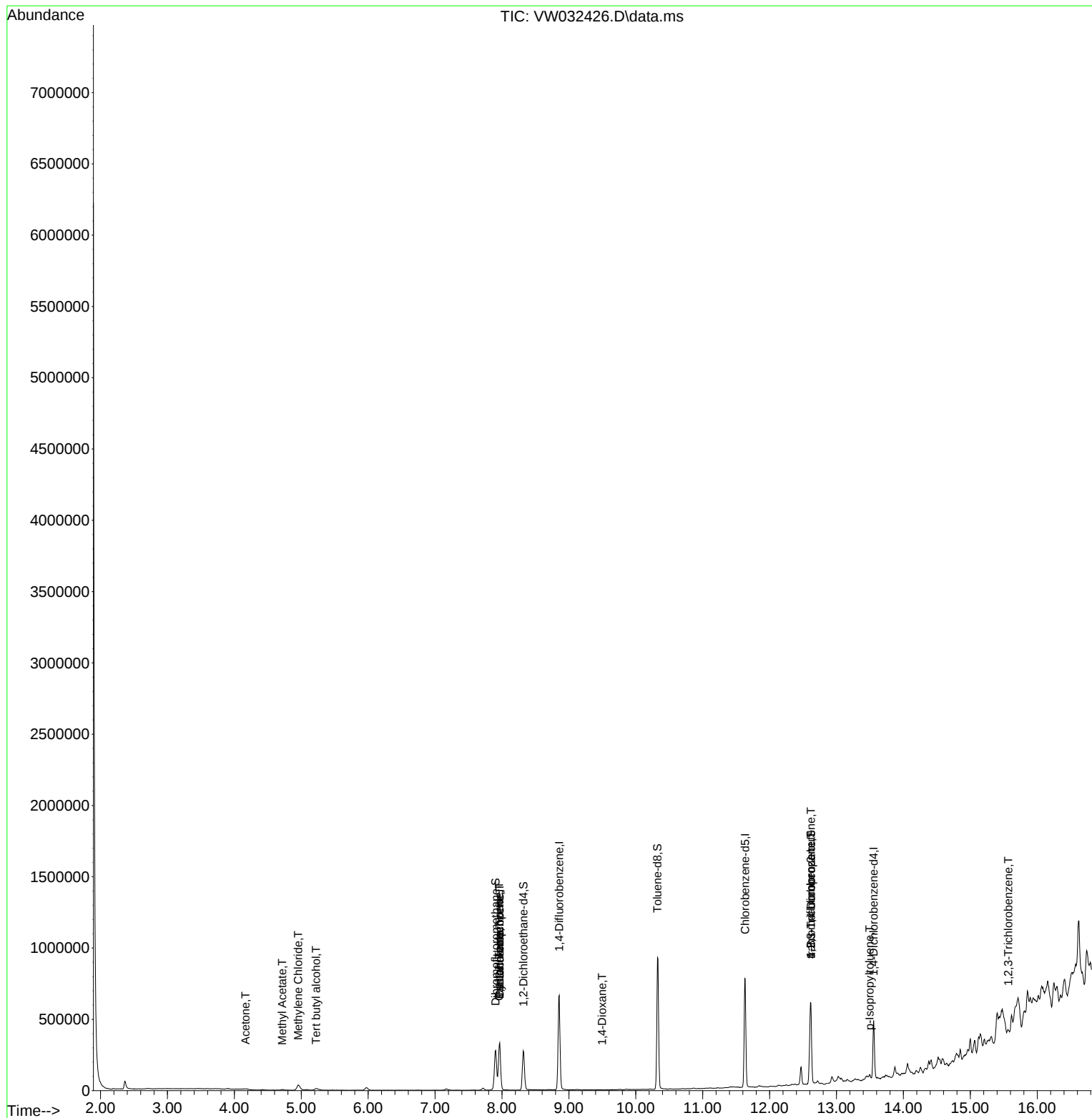
Internal Standards						
1) Pentafluorobenzene	7.965	168	237266	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.855	114	549603	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.635	117	425969	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.556	152	103284	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.319	65	223133	72.945	ug/l	0.00
Spiked Amount	50.000	Range	63 - 155	Recovery	= 145.880%	
35) Dibromofluoromethane	7.904	113	205583	62.476	ug/l	0.00
Spiked Amount	50.000	Range	70 - 134	Recovery	= 124.960%	
50) Toluene-d8	10.325	98	630215	49.923	ug/l	0.00
Spiked Amount	50.000	Range	74 - 123	Recovery	= 99.840%	
62) 4-Bromofluorobenzene	12.617	95	172816	36.239	ug/l	0.00
Spiked Amount	50.000	Range	17 - 146	Recovery	= 72.480%	
Target Compounds						
					Qvalue	
11) Tert butyl alcohol	5.222	59	22349	84.494	ug/l #	86
16) Acetone	4.167	43	3577	3.909	ug/l	99
18) Methyl Acetate	4.716	43	9222	4.069	ug/l #	71
20) Methylene Chloride	4.954	84	28008	8.558	ug/l	96
31) Cyclohexane	7.965	56	6032	1.192	ug/l #	14
36) 1,1-Dichloropropene	7.965	75	21832	4.503	ug/l #	51
38) Carbon Tetrachloride	7.959	117	26151	6.070	ug/l #	16
49) 1,4-Dioxane	9.496	88	138	4.336	ug/l #	84
76) 1,2,3-Trichloropropane	12.617	75	90141	63.650	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.617	75	90141	145.787	ug/l #	11
86) p-Isopropyltoluene	13.495	119	9649	1.441	ug/l	89
96) 1,2,3-Trichlorobenzene	15.568	180	2810	1.556	ug/l #	10

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

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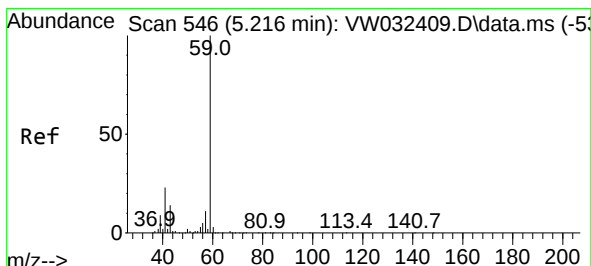
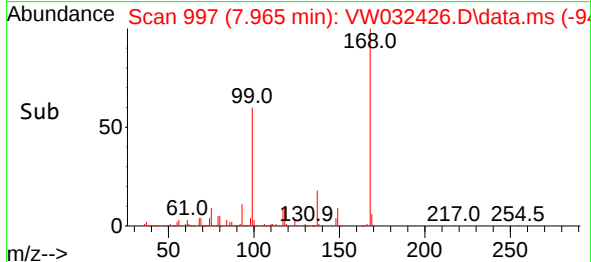
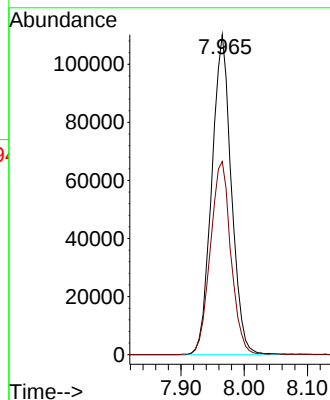
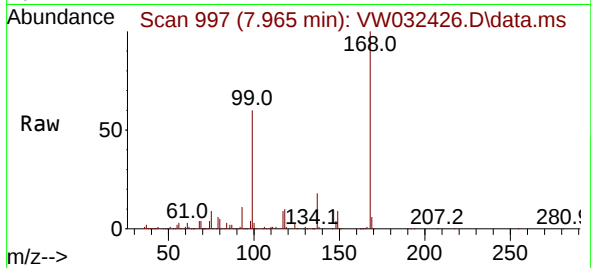




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.965 min Scan# 997
Delta R.T. 0.000 min
Lab File: VW032426.D
Acq: 11 Nov 2025 13:32

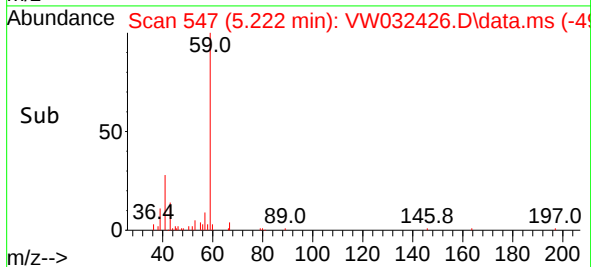
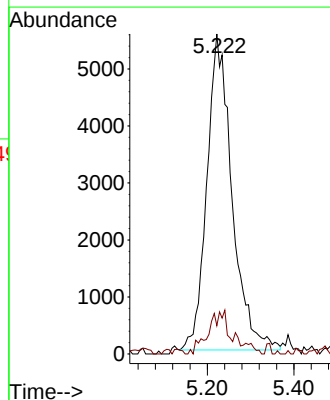
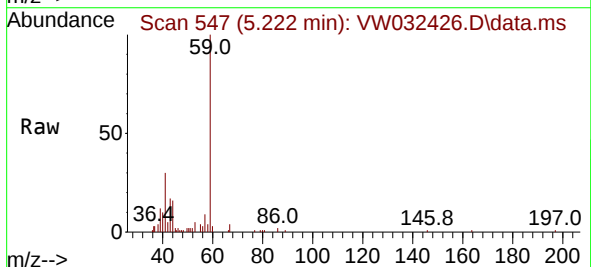
Instrument :
MSVOA_W
ClientSampleId :

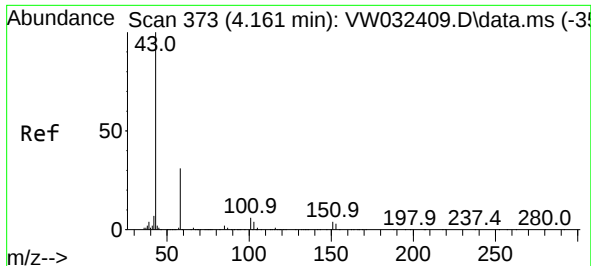
Tgt Ion:168 Resp: 237266
Ion Ratio Lower Upper
168 100
99 60.3 45.4 68.2



#11
Tert butyl alcohol
Concen: 84.494 ug/l
RT: 5.222 min Scan# 547
Delta R.T. 0.006 min
Lab File: VW032426.D
Acq: 11 Nov 2025 13:32

Tgt Ion: 59 Resp: 22349
Ion Ratio Lower Upper
59 100
57 5.6 8.6 12.8#

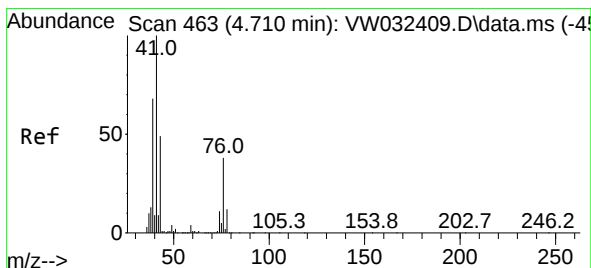
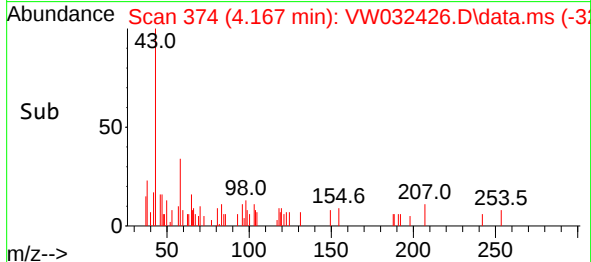
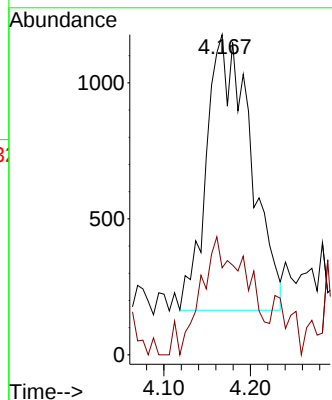
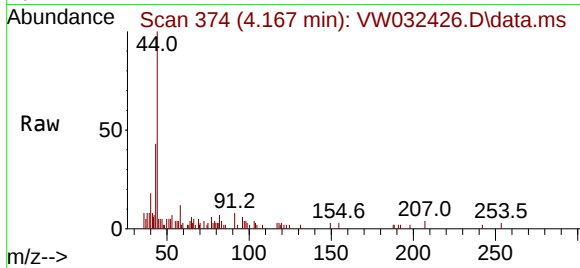




#16
Acetone
Concen: 3.909 ug/l
RT: 4.167 min Scan# 31
Delta R.T. 0.006 min
Lab File: VW032426.D
Acq: 11 Nov 2025 13:32

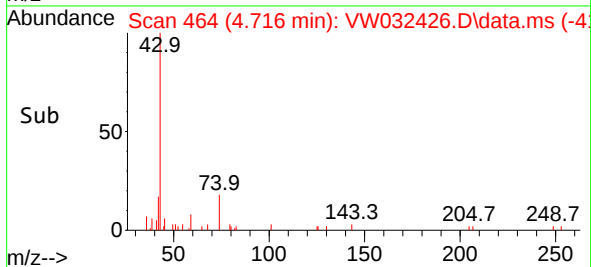
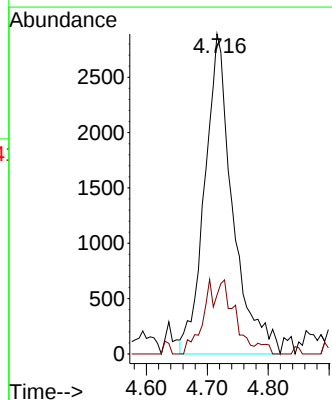
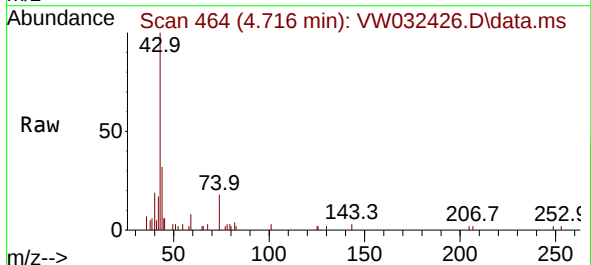
Instrument :
MSVOA_W
ClientSampleId :

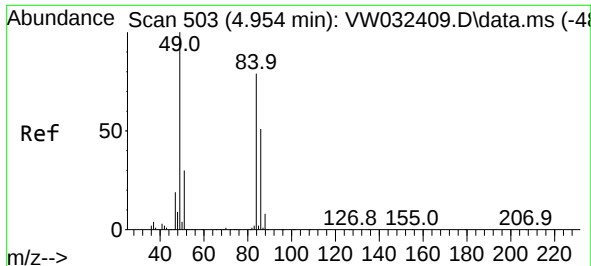
Tgt Ion: 43 Resp: 3577
Ion Ratio Lower Upper
43 100
58 31.6 24.8 37.2



#18
Methyl Acetate
Concen: 4.069 ug/l
RT: 4.716 min Scan# 464
Delta R.T. 0.006 min
Lab File: VW032426.D
Acq: 11 Nov 2025 13:32

Tgt Ion: 43 Resp: 9222
Ion Ratio Lower Upper
43 100
74 9.5 18.9 28.3#

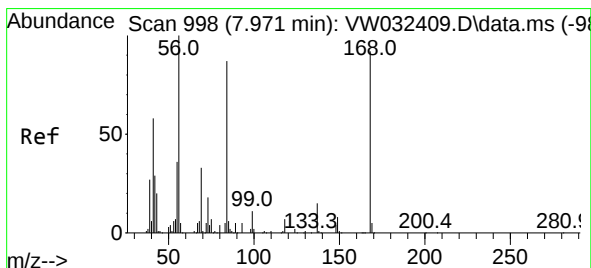
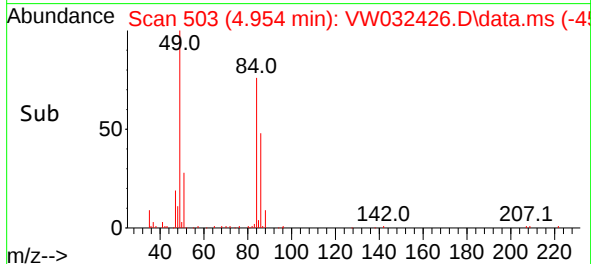
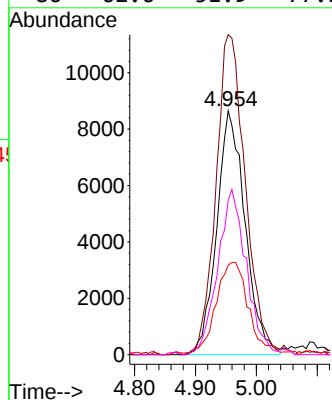
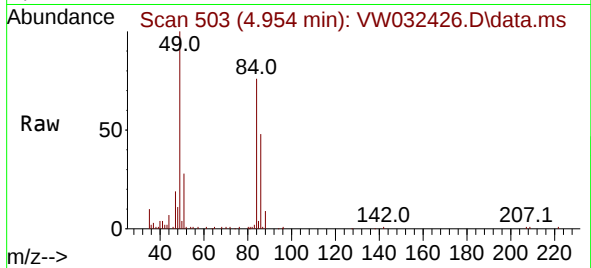




#20
Methylene Chloride
Concen: 8.558 ug/l
RT: 4.954 min Scan# 503
Delta R.T. 0.000 min
Lab File: VW032426.D
Acq: 11 Nov 2025 13:32

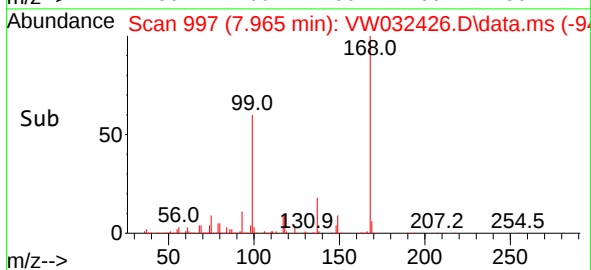
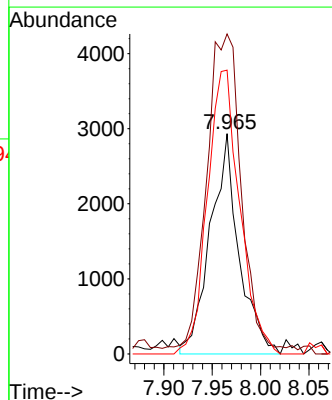
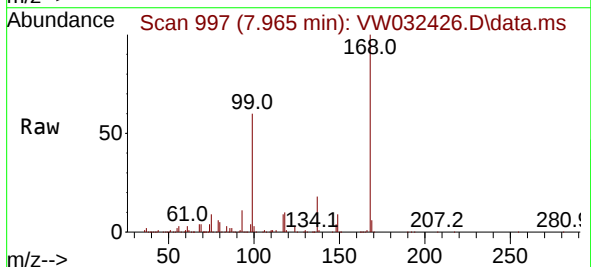
Instrument :
MSVOA_W
ClientSampleId :

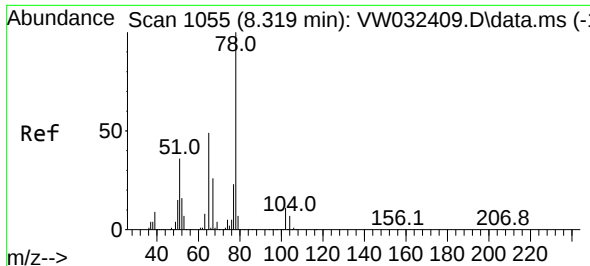
Tgt Ion:	84	Resp:	28008
Ion	Ratio	Lower	Upper
84	100		
49	131.3	101.5	152.3
51	35.8	30.6	46.0
86	62.6	51.9	77.9



#31
Cyclohexane
Concen: 1.192 ug/l
RT: 7.965 min Scan# 997
Delta R.T. -0.006 min
Lab File: VW032426.D
Acq: 11 Nov 2025 13:32

Tgt Ion:	56	Resp:	6032
Ion	Ratio	Lower	Upper
56	100		
69	141.9	26.5	39.7#
84	128.8	69.6	104.4#

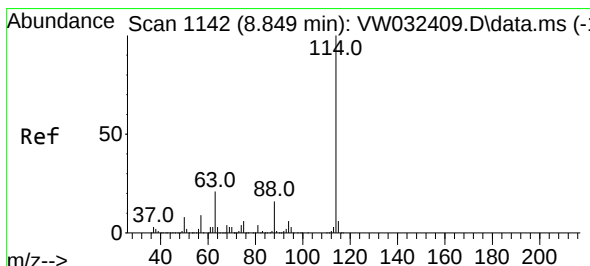
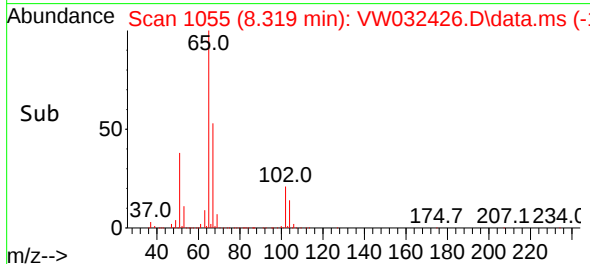
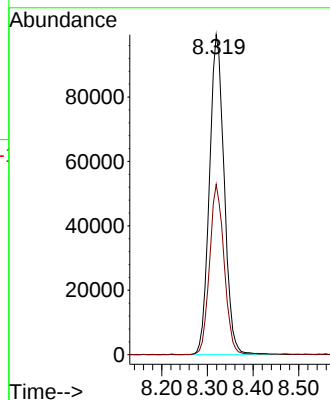
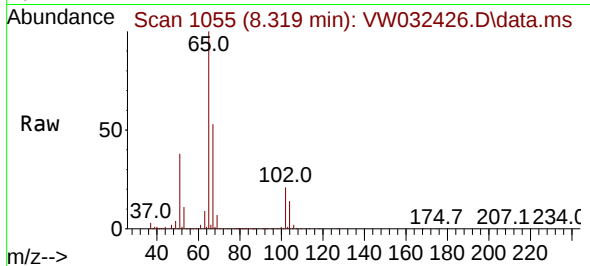




#33
 1,2-Dichloroethane-d4
 Concen: 72.945 ug/l
 RT: 8.319 min Scan# 1055
 Delta R.T. 0.000 min
 Lab File: VW032426.D
 Acq: 11 Nov 2025 13:32

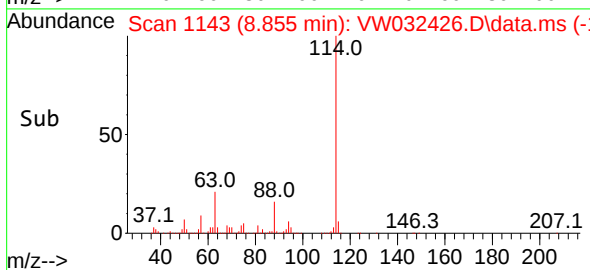
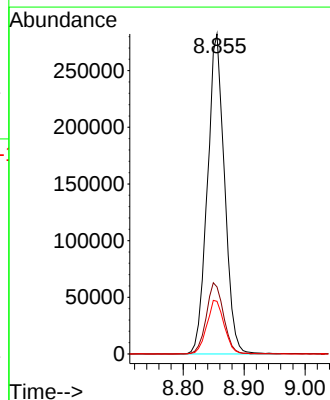
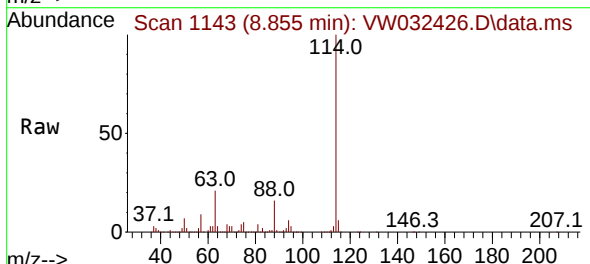
Instrument :
 MSVOA_W
 ClientSampleId :

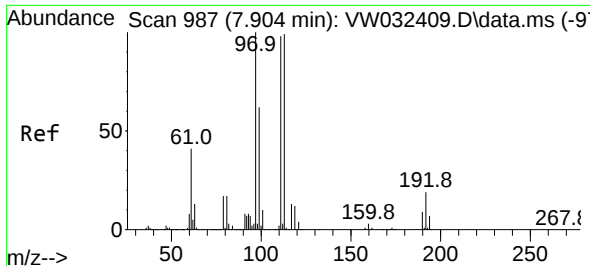
Tgt Ion: 65 Resp: 223133
 Ion Ratio Lower Upper
 65 100
 67 52.0 0.0 106.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.855 min Scan# 1143
 Delta R.T. 0.006 min
 Lab File: VW032426.D
 Acq: 11 Nov 2025 13:32

Tgt Ion: 114 Resp: 549603
 Ion Ratio Lower Upper
 114 100
 63 20.9 0.0 41.8
 88 16.4 0.0 32.6

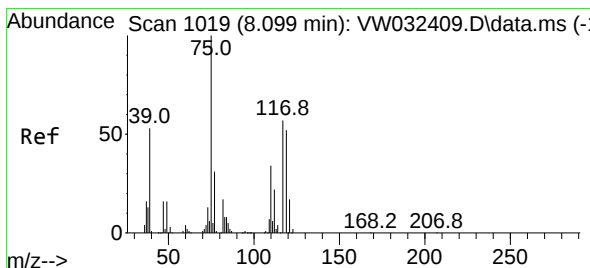
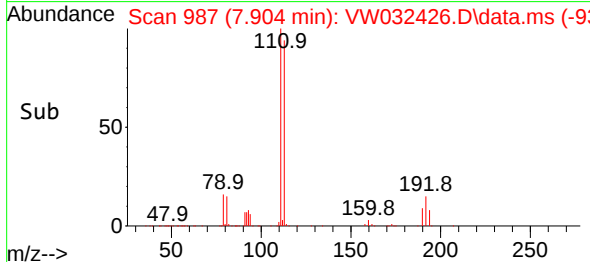
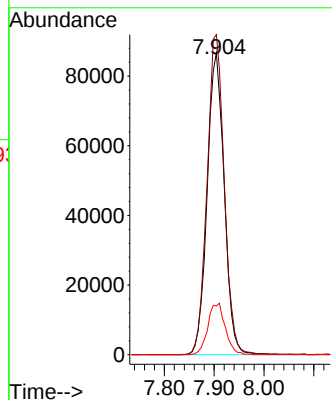
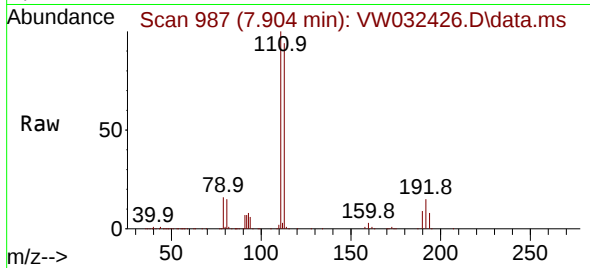




#35
Dibromofluoromethane
Concen: 62.476 ug/l
RT: 7.904 min Scan# 911
Delta R.T. 0.000 min
Lab File: VW032426.D
Acq: 11 Nov 2025 13:32

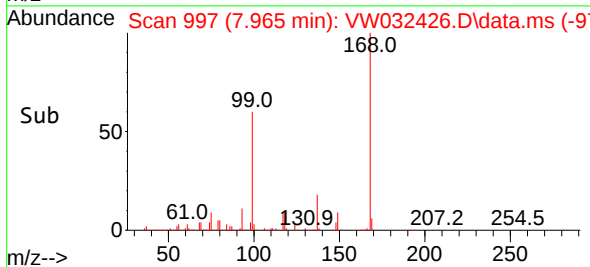
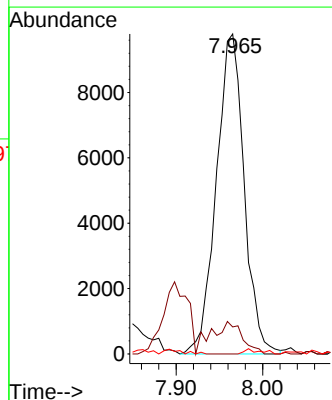
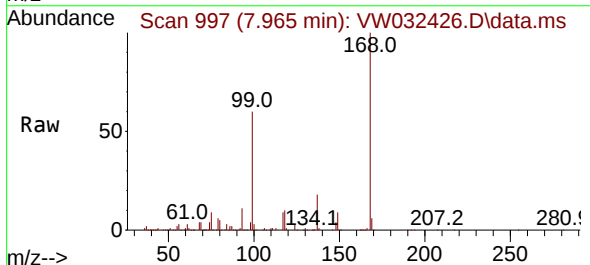
Instrument :
MSVOA_W
ClientSampleId :

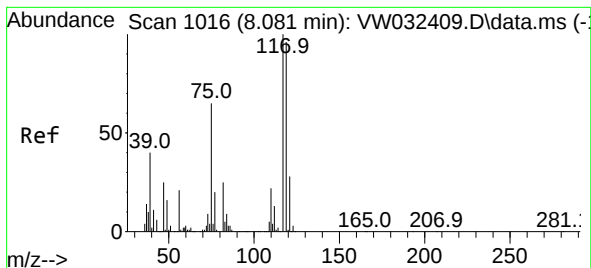
Tgt Ion:113 Resp: 205583
Ion Ratio Lower Upper
113 100
111 107.2 83.1 124.7
192 17.4 13.4 20.2



#36
1,1-Dichloropropene
Concen: 4.503 ug/l
RT: 7.965 min Scan# 997
Delta R.T. -0.134 min
Lab File: VW032426.D
Acq: 11 Nov 2025 13:32

Tgt Ion: 75 Resp: 21832
Ion Ratio Lower Upper
75 100
110 9.6 17.2 51.5#
77 0.0 24.5 36.7#





#38

Carbon Tetrachloride

Concen: 6.070 ug/l

RT: 7.959 min Scan# 996

Delta R.T. -0.122 min

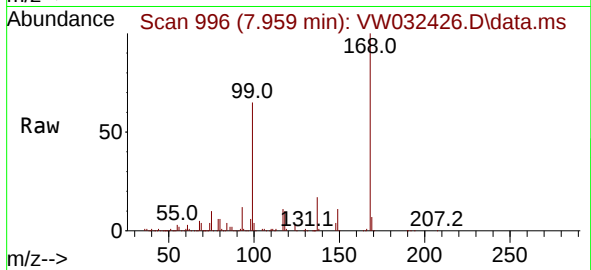
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Acq: 11 Nov 2025 13:32

Instrument :

MSVOA_W

ClientSampleId :



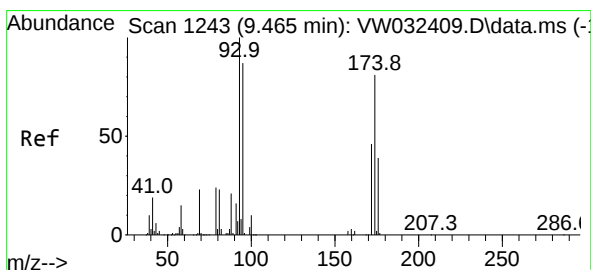
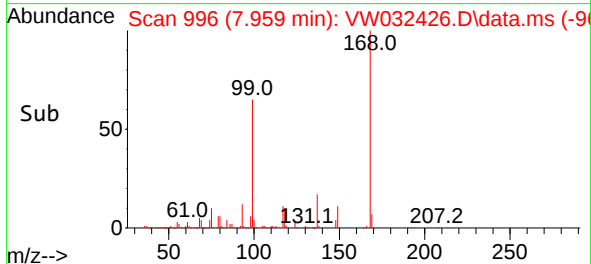
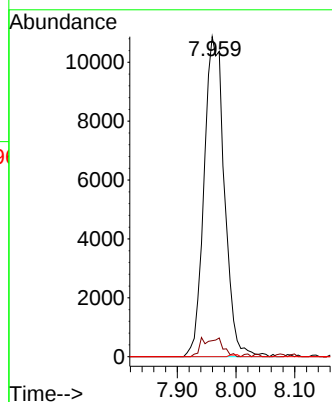
Tgt Ion:117 Resp: 26151

Ion Ratio Lower Upper

117 100

119 5.0 77.0 115.4#

121 0.0 22.0 33.0#



#49

1,4-Dioxane

Concen: 4.336 ug/l

RT: 9.496 min Scan# 1248

Delta R.T. 0.031 min

Lab File: VW032426.D

Acq: 11 Nov 2025 13:32

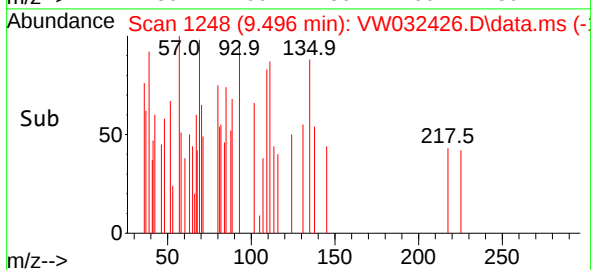
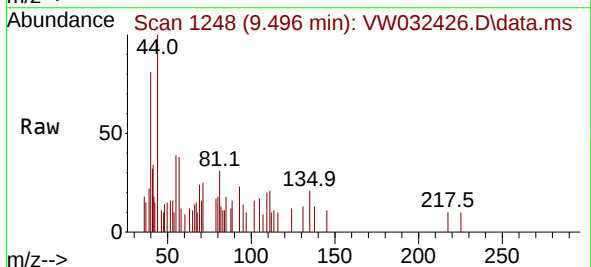
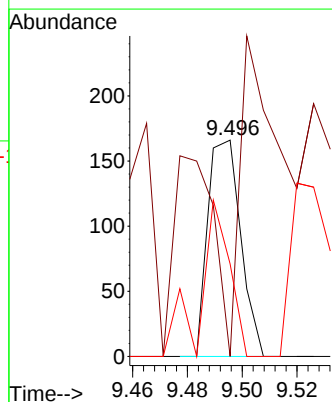
Tgt Ion: 88 Resp: 138

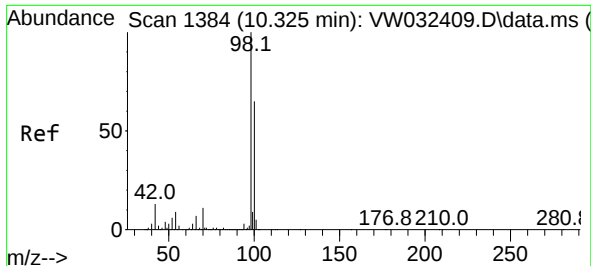
Ion Ratio Lower Upper

88 100

43 191.3 0.0 0.0#

58 64.5 63.0 94.4

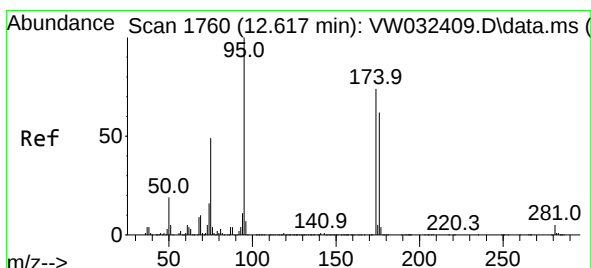
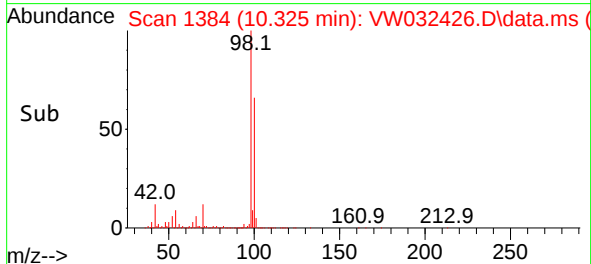
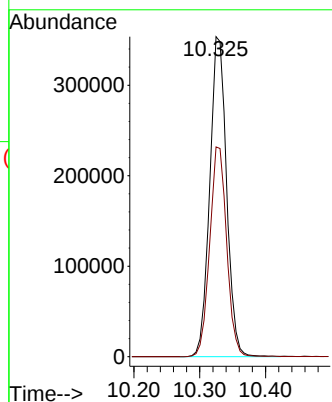
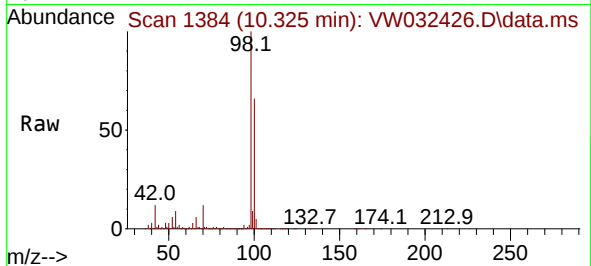




#50
Toluene-d8
Concen: 49.923 ug/l
RT: 10.325 min Scan# 11
Delta R.T. 0.000 min
Lab File: VW032426.D
Acq: 11 Nov 2025 13:32

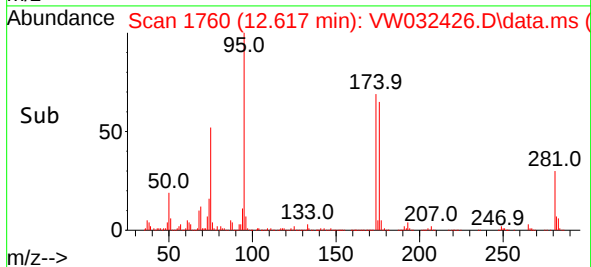
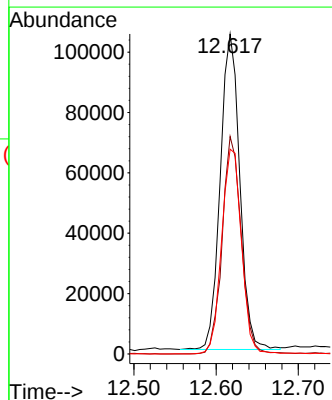
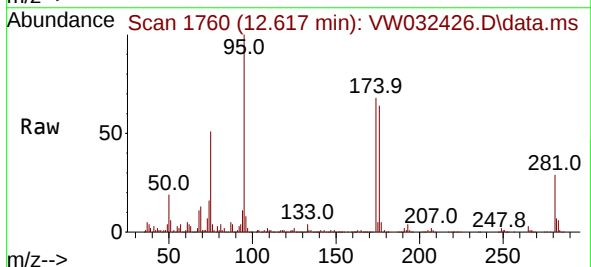
Instrument :
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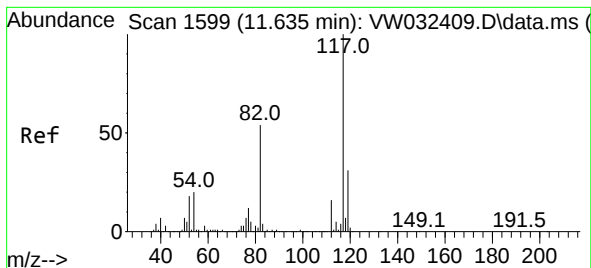
Tgt Ion: 98 Resp: 630215
Ion Ratio Lower Upper
98 100
100 66.1 53.3 79.9



#62
4-Bromofluorobenzene
Concen: 36.239 ug/l
RT: 12.617 min Scan# 1760
Delta R.T. 0.000 min
Lab File: VW032426.D
Acq: 11 Nov 2025 13:32

Tgt Ion: 95 Resp: 172816
Ion Ratio Lower Upper
95 100
174 67.4 0.0 135.4
176 65.9 0.0 131.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.635 min Scan# 11

Delta R.T. 0.000 min

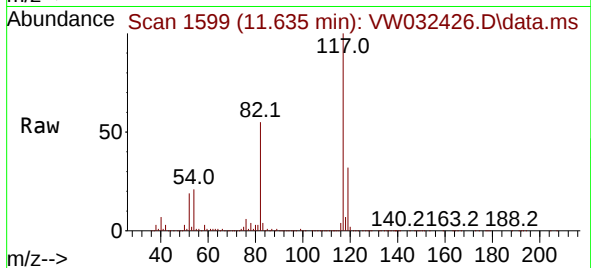
Lab File: VW032426.D

Acq: 11 Nov 2025 13:32

Instrument :

MSVOA_W

ClientSampleId :



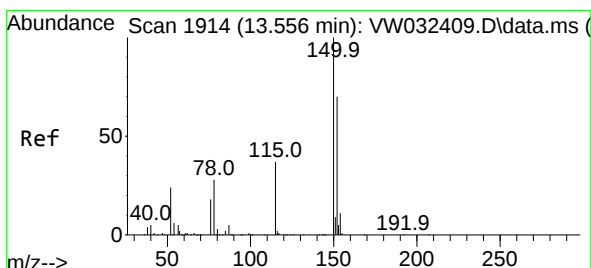
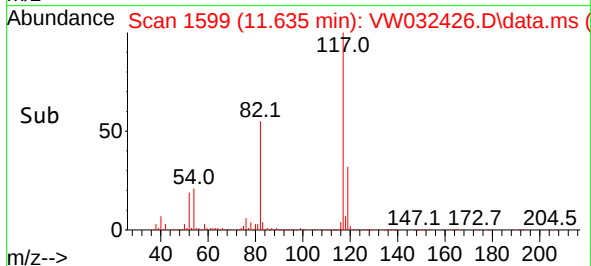
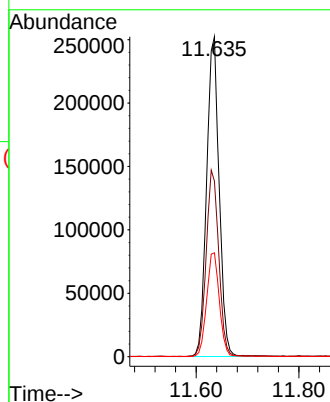
Tgt Ion:117 Resp: 425969

Ion Ratio Lower Upper

117 100

82 54.7 43.0 64.4

119 32.4 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: VW032426.D

Acq: 11 Nov 2025 13:32

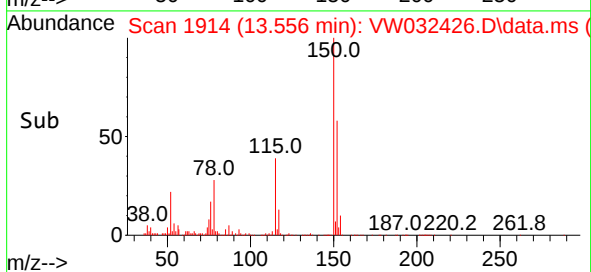
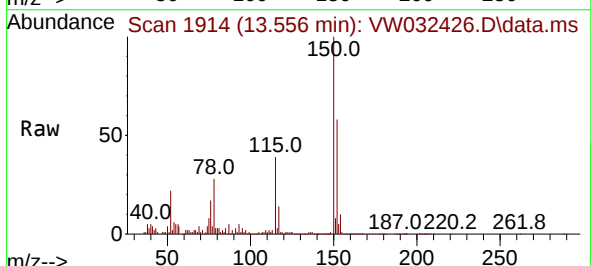
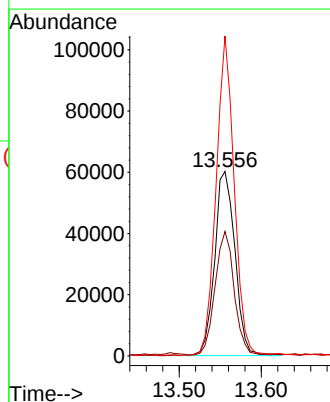
Tgt Ion:152 Resp: 103284

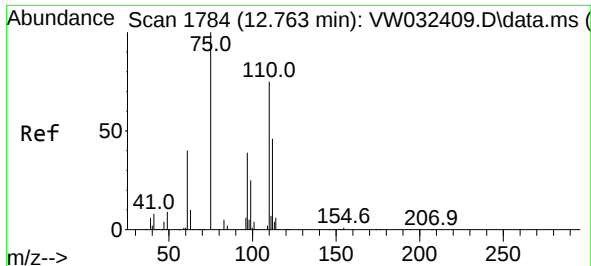
Ion Ratio Lower Upper

152 100

115 62.6 32.8 98.3

150 154.6 0.0 356.6

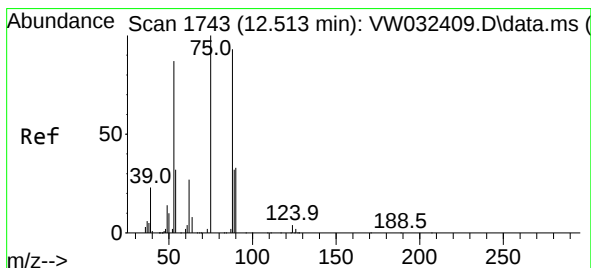
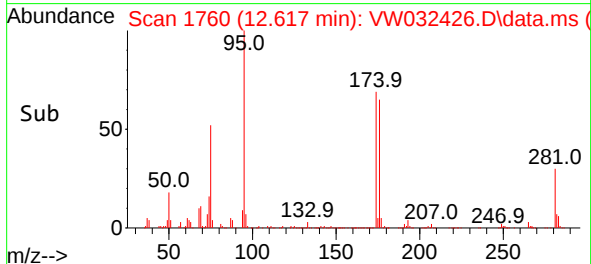
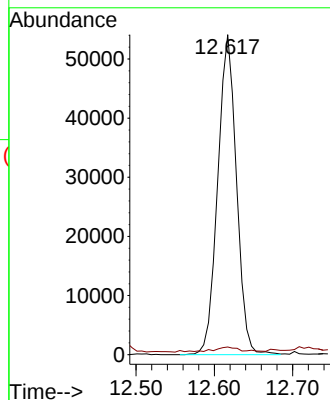
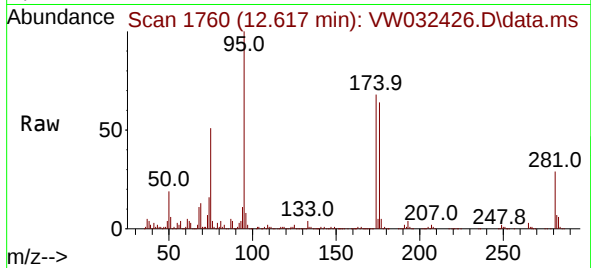




#76
1,2,3-Trichloropropane
Concen: 63.650 ug/l
RT: 12.617 min Scan# 1760
Delta R.T. -0.146 min
Lab File: VW032426.D
Acq: 11 Nov 2025 13:32

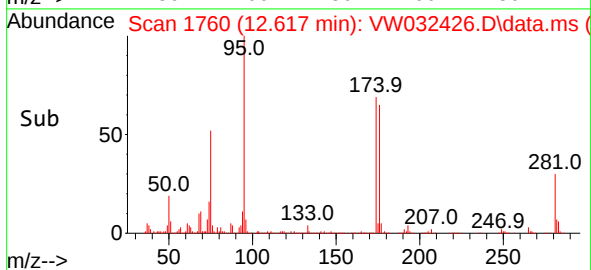
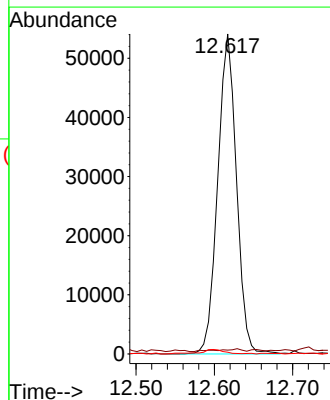
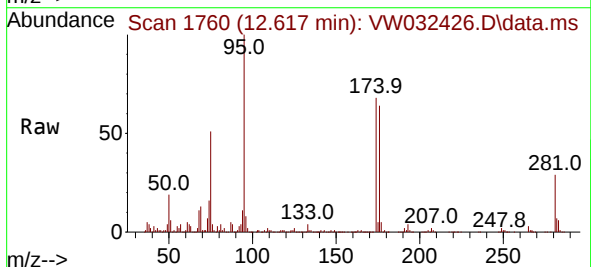
Instrument :
MSVOA_W
ClientSampleId :

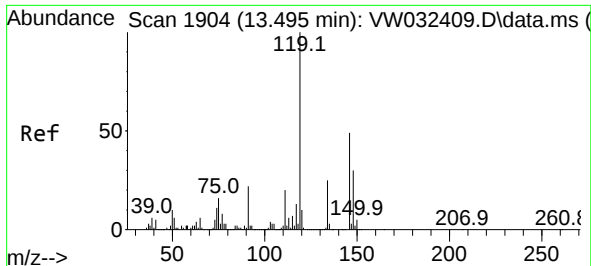
Tgt Ion: 75 Resp: 90141
Ion Ratio Lower Upper
75 100
77 1.6 151.6 454.8#



#81
trans-1,4-Dichloro-2-butene
Concen: 145.787 ug/l
RT: 12.617 min Scan# 1760
Delta R.T. 0.104 min
Lab File: VW032426.D
Acq: 11 Nov 2025 13:32

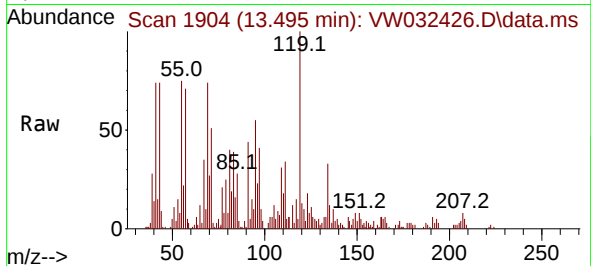
Tgt Ion: 75 Resp: 90141
Ion Ratio Lower Upper
75 100
53 1.1 77.8 116.8#
89 0.0 35.6 53.4#



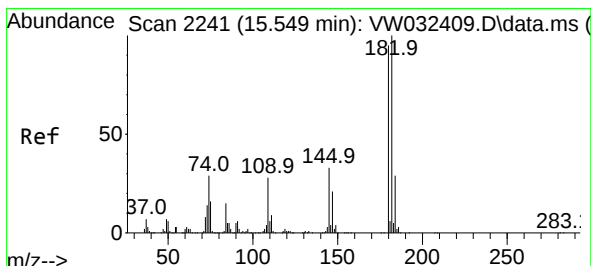
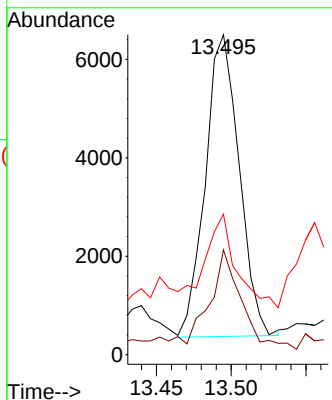
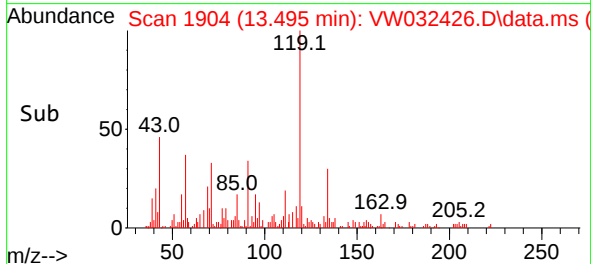


#86
 p-Isopropyltoluene
 Concen: 1.441 ug/l
 RT: 13.495 min Scan# 1904
 Delta R.T. 0.000 min
 Lab File: VW032426.D
 Acq: 11 Nov 2025 13:32

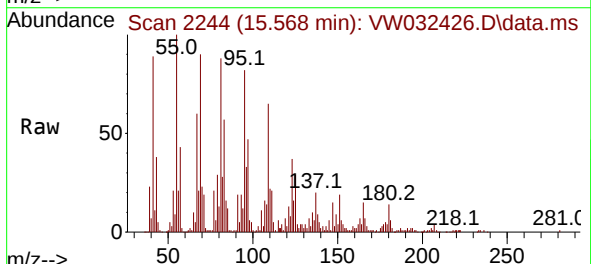
Instrument :
 MSVOA_W
 ClientSampleId :



Tgt Ion:	119	Resp:	9649
Ion Ratio	Lower	Upper	
119	100		
134	31.8	12.7	38.1
91	28.5	11.9	35.5



#96
 1,2,3-Trichlorobenzene
 Concen: 1.556 ug/l
 RT: 15.568 min Scan# 2244
 Delta R.T. 0.018 min
 Lab File: VW032426.D
 Acq: 11 Nov 2025 13:32



Tgt Ion:	180	Resp:	2810
Ion Ratio	Lower	Upper	
180	100		
182	0.0	50.3	151.0#
145	0.0	17.8	53.3#

