

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV100325\
 Data File : VV039254.D
 Acq On : 03 Oct 2025 16:56
 Operator : SY/MD
 Sample : Q3254-05
 Misc : 5.0mL/MSVOA_V/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 MW-3

Quant Time: Oct 04 01:13:48 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 24 08:08:08 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

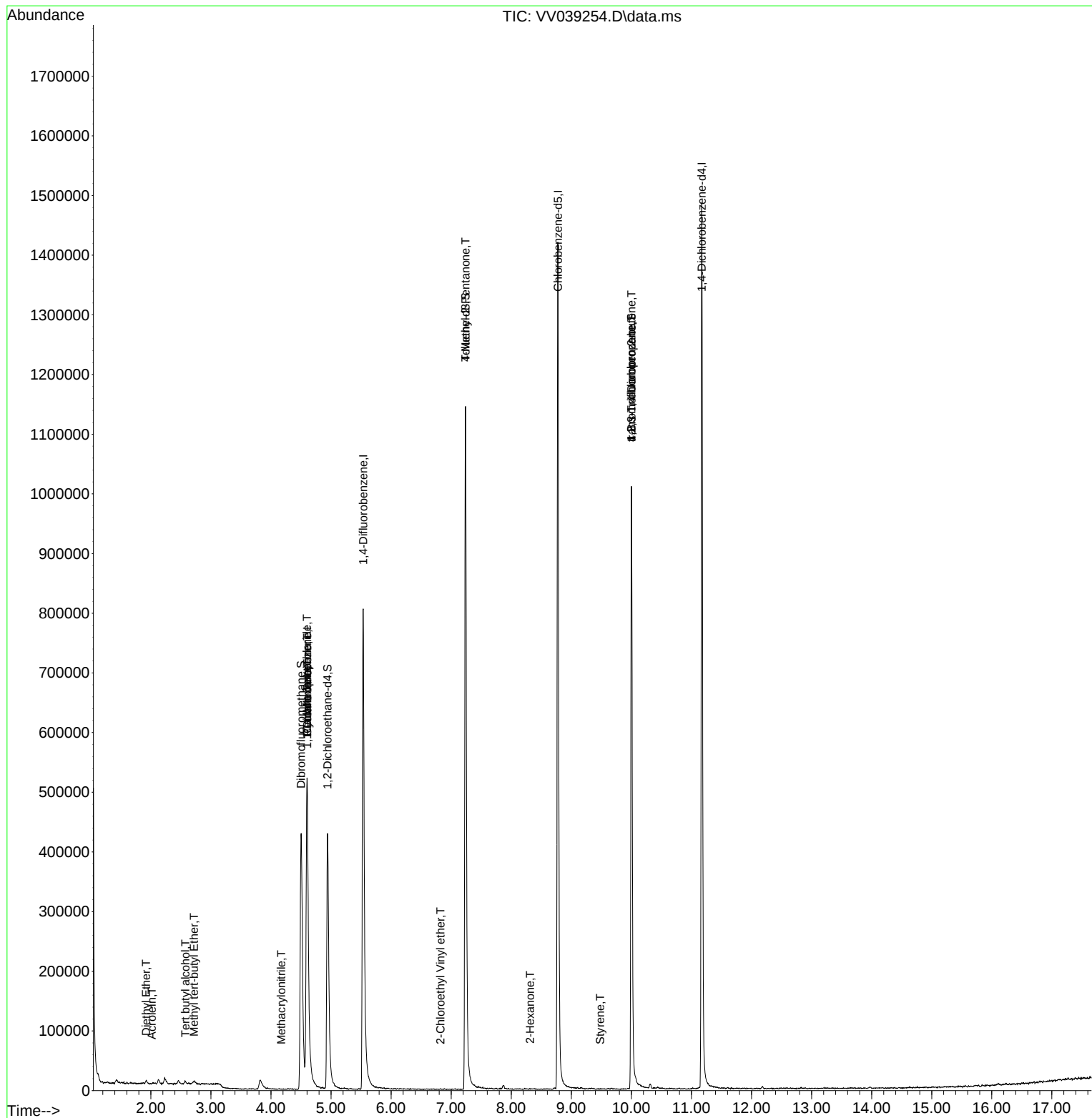
Internal Standards						
1) Pentafluorobenzene	4.603	168	448224	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	5.535	114	801027	50.000	ug/l	0.00
63) Chlorobenzene-d5	8.776	117	823576	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.172	152	400173	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.940	65	378692	58.376	ug/l	0.00
Spiked Amount 50.000	Range 81 - 118		Recovery = 116.760%			
35) Dibromofluoromethane	4.503	113	363392	56.431	ug/l	0.00
Spiked Amount 50.000	Range 80 - 119		Recovery = 112.860%			
50) Toluene-d8	7.239	98	854565	45.183	ug/l	0.00
Spiked Amount 50.000	Range 89 - 112		Recovery = 90.360%			
62) 4-Bromofluorobenzene	10.001	95	352316	45.250	ug/l	0.00
Spiked Amount 50.000	Range 85 - 114		Recovery = 90.500%			
Target Compounds					Qvalue	
6) Chloroethane	1.529	64	252	Below Cal	#	48
8) Diethyl Ether	1.921	74	1741	0.397	ug/l	90
11) Tert butyl alcohol	2.574	59	2401	1.751	ug/l #	87
13) Acrolein	2.018	56	173	0.727	ug/l #	62
16) Acetone	2.127	43	9272	Below Cal	#	87
19) Methyl tert-butyl Ether	2.719	73	5185	0.241	ug/l #	84
20) Methylene Chloride	2.461	84	2202	Below Cal	#	83
31) Cyclohexane	4.603	56	9834	0.850	ug/l #	1
36) 1,1-Dichloropropene	4.606	75	40163	4.125	ug/l #	50
38) Carbon Tetrachloride	4.600	117	47345	3.979	ug/l #	17
41) Methacrylonitrile	4.172	41	80	1.925	ug/l #	19
51) 4-Methyl-2-Pentanone	7.239	43	3712	0.350	ug/l #	1
58) 2-Chloroethyl Vinyl ether	6.821	63	77	9.636	ug/l #	47
59) 2-Hexanone	8.313	43	89	2.336	ug/l	93
70) Styrene	9.480	104	20	1.562	ug/l #	26
76) 1,2,3-Trichloropropane	10.001	75	172672	18.951	ug/l #	55
81) trans-1,4-Dichloro-2-b...	10.001	75	172672	45.496	ug/l #	13
92) 1,2-Dibromo-3-Chloropr...	12.332	75	43	Below Cal	#	5

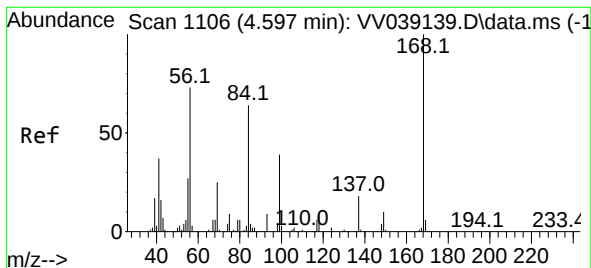
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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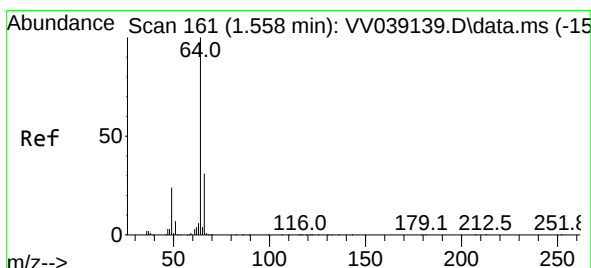
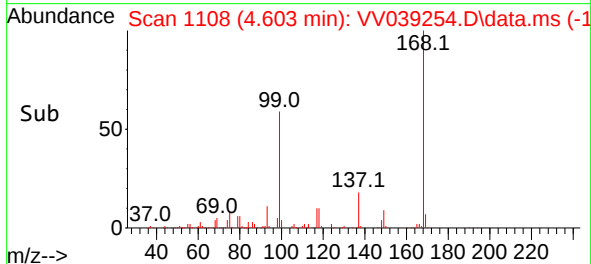
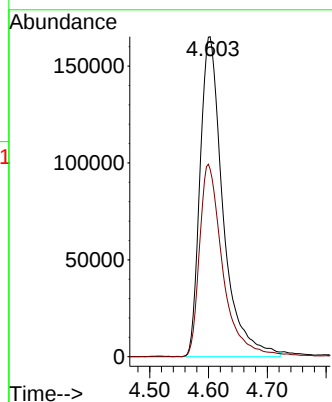
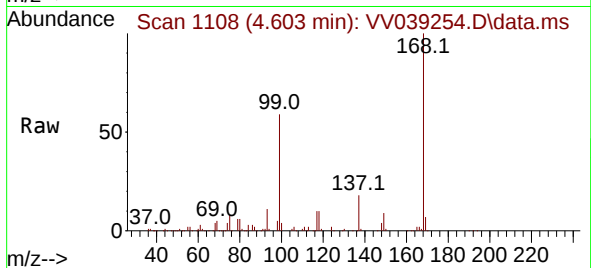




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 4.603 min Scan# 11
Delta R.T. 0.006 min
Lab File: VV039254.D
Acq: 03 Oct 2025 16:56

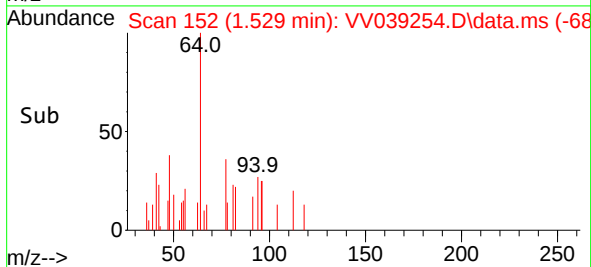
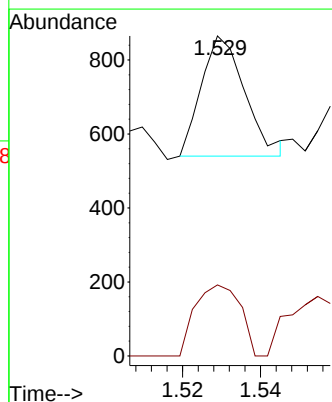
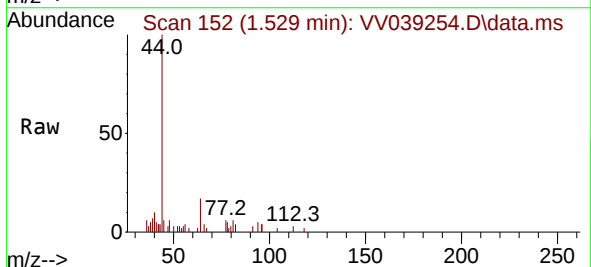
Instrument :
MSVOA_V
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MW-3

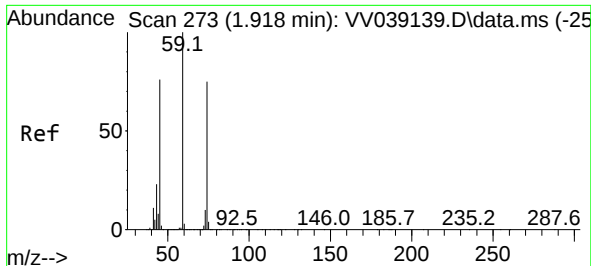
Tgt Ion:168 Resp: 448224
Ion Ratio Lower Upper
168 100
99 58.5 49.6 74.4



#6
Chloroethane
Concen: Below Cal
RT: 1.529 min Scan# 152
Delta R.T. -0.029 min
Lab File: VV039254.D
Acq: 03 Oct 2025 16:56

Tgt Ion: 64 Resp: 252
Ion Ratio Lower Upper
64 100
66 59.1 24.6 36.8#

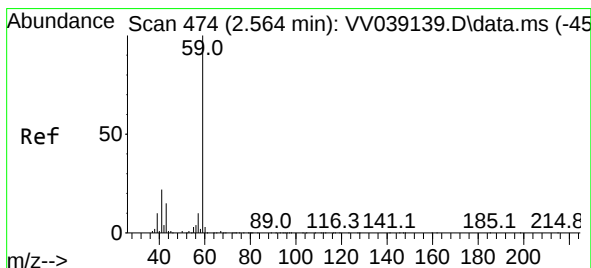
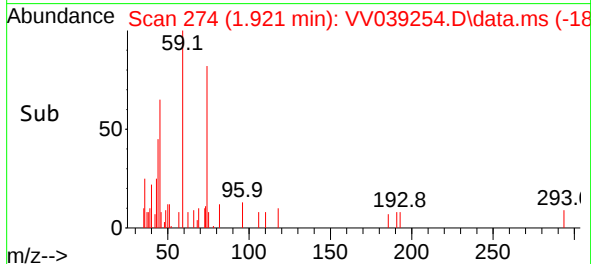
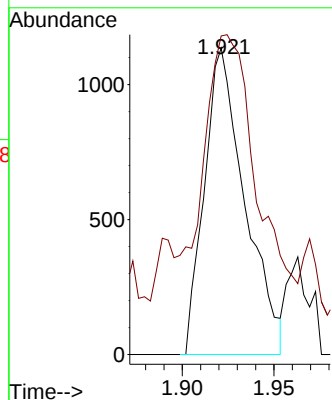
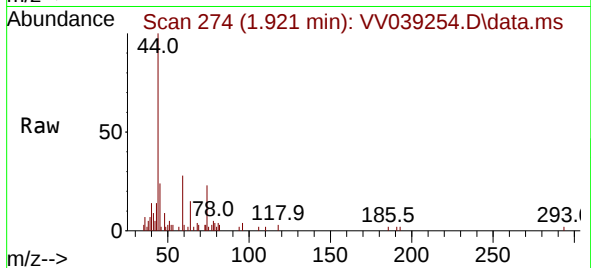




#8
Diethyl Ether
Concen: 0.397 ug/l
RT: 1.921 min Scan# 21
Delta R.T. 0.003 min
Lab File: VV039254.D
Acq: 03 Oct 2025 16:56

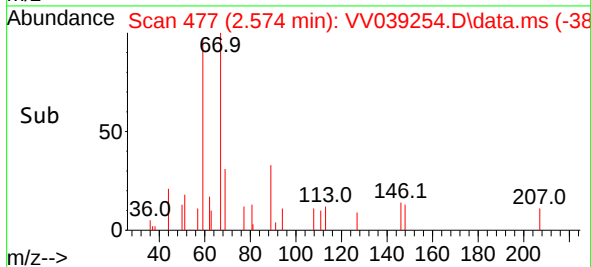
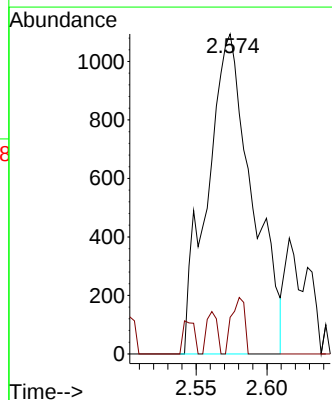
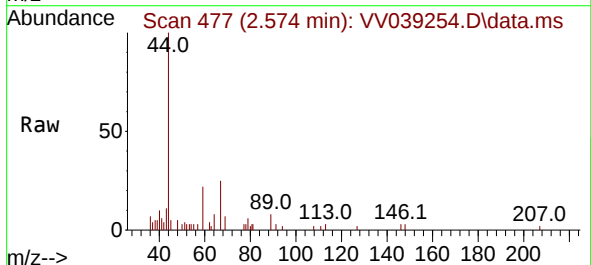
Instrument :
MSVOA_V
ClientSampleId :
MW-3

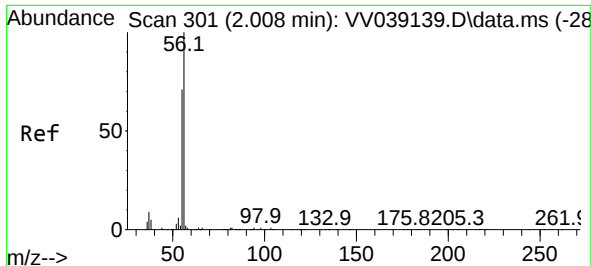
Tgt Ion: 74 Resp: 1741
Ion Ratio Lower Upper
74 100
45 109.2 49.6 148.8



#11
Tert butyl alcohol
Concen: 1.751 ug/l
RT: 2.574 min Scan# 477
Delta R.T. 0.009 min
Lab File: VV039254.D
Acq: 03 Oct 2025 16:56

Tgt Ion: 59 Resp: 2401
Ion Ratio Lower Upper
59 100
57 5.2 7.8 11.8#

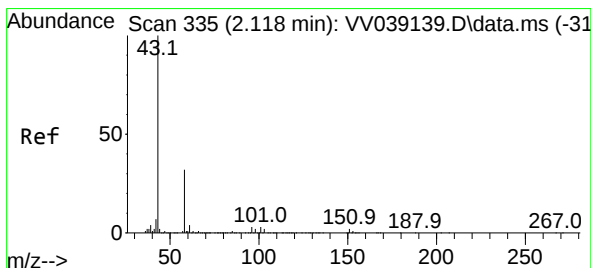
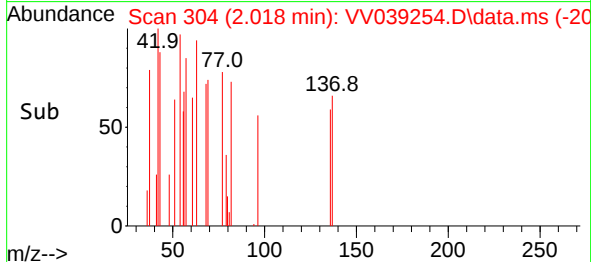
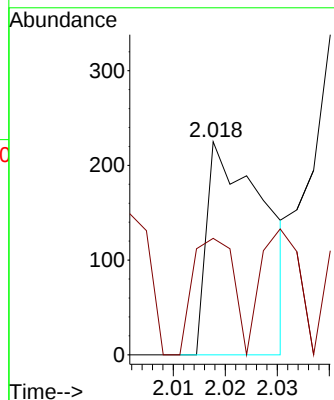
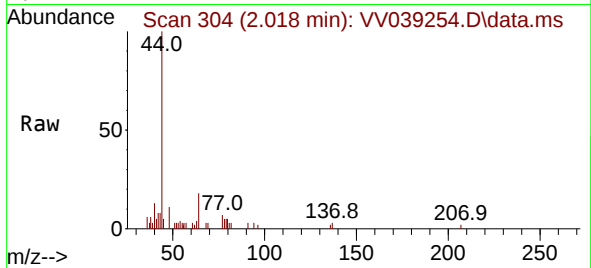




#13
Acrolein
Concen: 0.727 ug/l
RT: 2.018 min Scan# 301
Delta R.T. 0.009 min
Lab File: VV039254.D
Acq: 03 Oct 2025 16:56

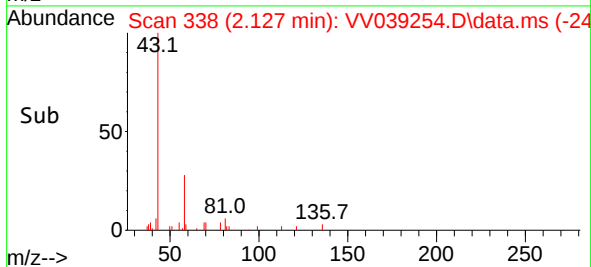
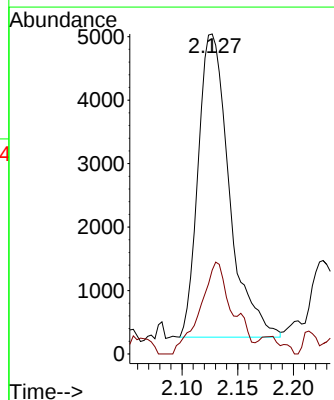
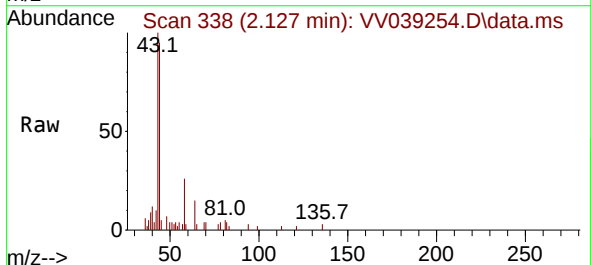
Instrument :
MSVOA_V
ClientSampleId :
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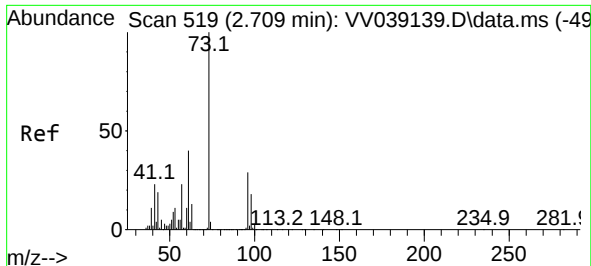
Tgt Ion: 56 Resp: 173
Ion Ratio Lower Upper
56 100
55 38.7 56.2 84.4#



#16
Acetone
Concen: Below Cal
RT: 2.127 min Scan# 338
Delta R.T. 0.009 min
Lab File: VV039254.D
Acq: 03 Oct 2025 16:56

Tgt Ion: 43 Resp: 9272
Ion Ratio Lower Upper
43 100
58 24.9 25.8 38.6#

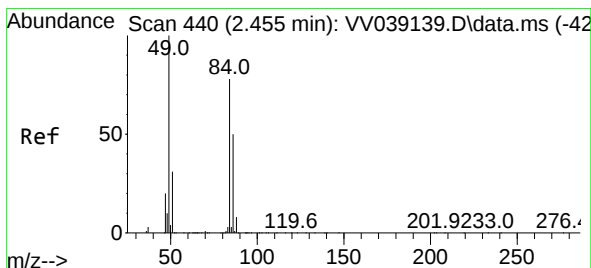
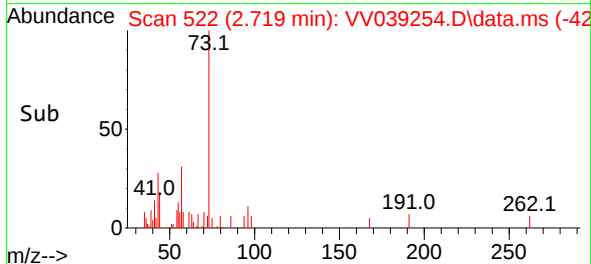
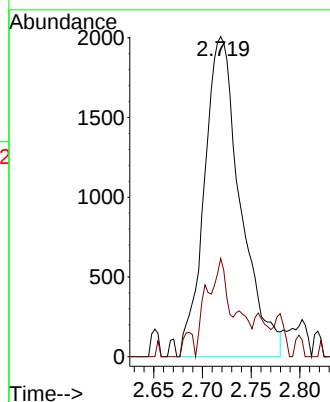
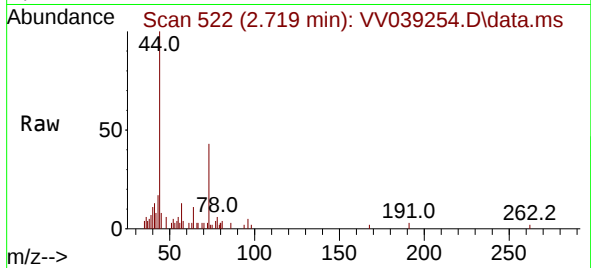




#19
Methyl tert-butyl Ether
Concen: 0.241 ug/l
RT: 2.719 min Scan# 519
Delta R.T. 0.009 min
Lab File: VV039254.D
Acq: 03 Oct 2025 16:56

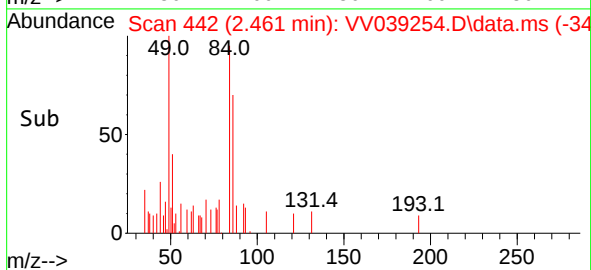
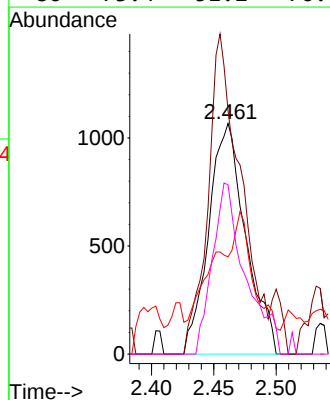
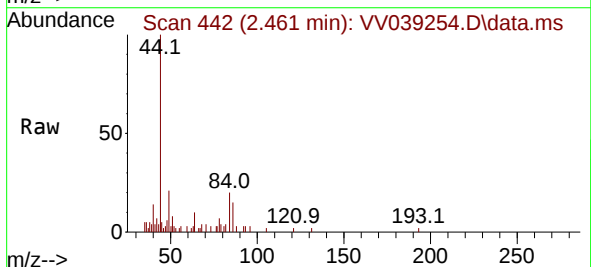
Instrument :
MSVOA_V
ClientSampleId :
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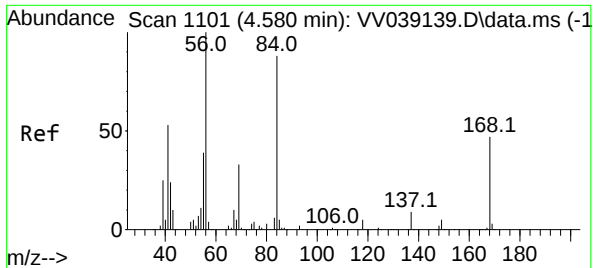
Tgt Ion: 73 Resp: 5185
Ion Ratio Lower Upper
73 100
57 30.7 18.2 27.4#



#20
Methylene Chloride
Concen: Below Cal
RT: 2.461 min Scan# 442
Delta R.T. 0.006 min
Lab File: VV039254.D
Acq: 03 Oct 2025 16:56

Tgt Ion: 84 Resp: 2202
Ion Ratio Lower Upper
84 100
49 105.5 102.8 154.2
51 31.9 31.9 47.9#
86 73.4 51.2 76.8

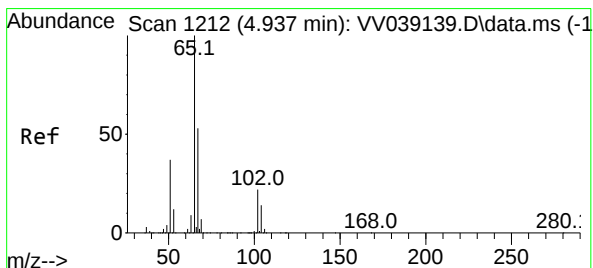
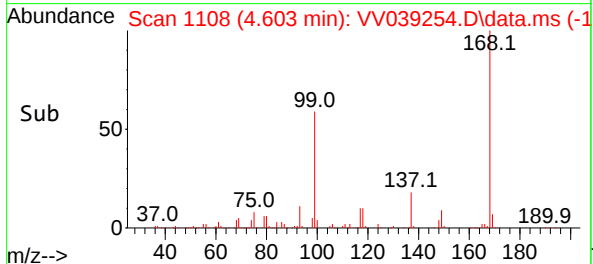
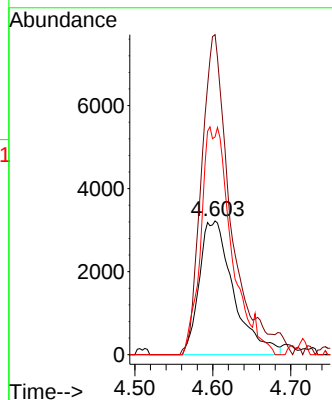
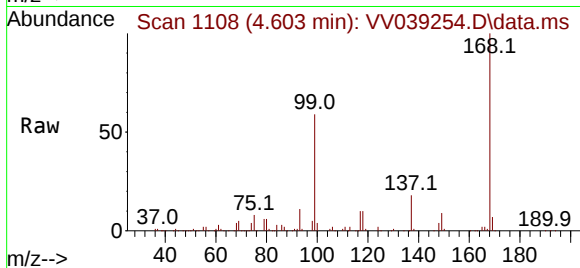




#31
Cyclohexane
Concen: 0.850 ug/l
RT: 4.603 min Scan# 1108
Delta R.T. 0.022 min
Lab File: VV039254.D
Acq: 03 Oct 2025 16:56

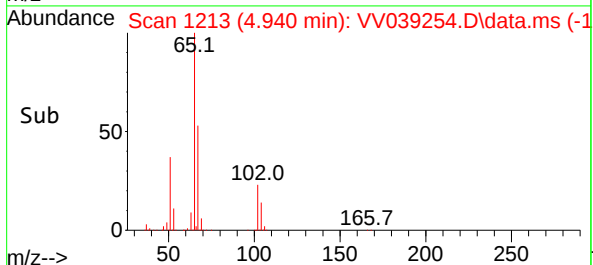
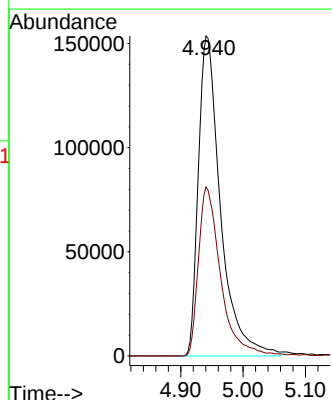
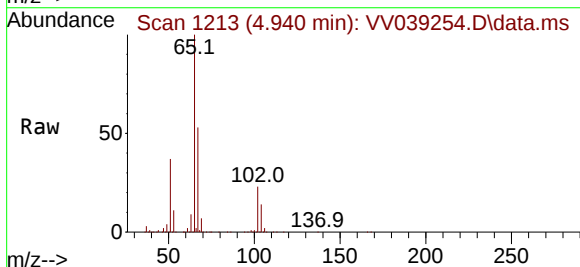
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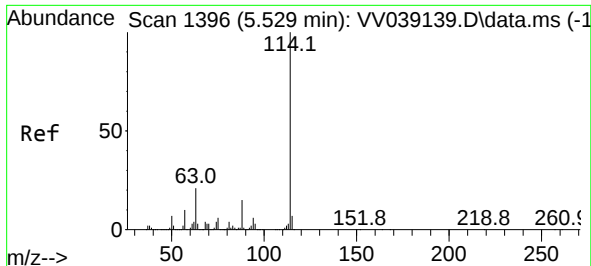
Tgt Ion	Resp		
Ion	Ratio	Lower	Upper
56	100		
69	239.1	26.2	39.2#
84	162.7	70.3	105.5#



#33
1,2-Dichloroethane-d4
Concen: 58.376 ug/l
RT: 4.940 min Scan# 1213
Delta R.T. 0.003 min
Lab File: VV039254.D
Acq: 03 Oct 2025 16:56

Tgt Ion	Resp		
Ion	Ratio	Lower	Upper
65	100		
67	52.9	0.0	107.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.535 min Scan# 1

Delta R.T. 0.006 min

Lab File: VV039254.D

Acq: 03 Oct 2025 16:56

Instrument :

MSVOA_V

ClientSampleId :

MW-3

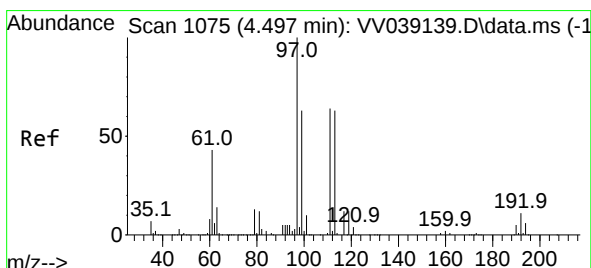
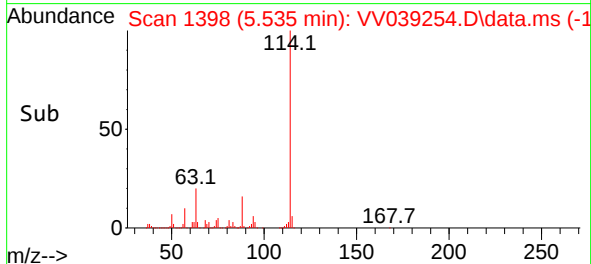
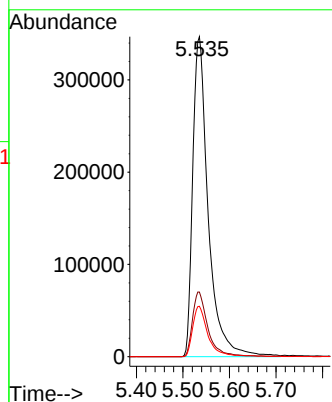
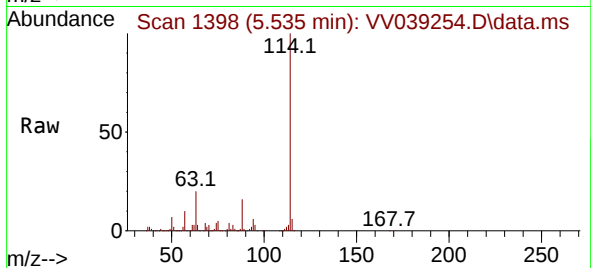
Tgt Ion:114 Resp: 801027

Ion Ratio Lower Upper

114 100

63 20.2 0.0 42.6

88 15.8 0.0 30.8



#35

Dibromofluoromethane

Concen: 56.431 ug/l

RT: 4.503 min Scan# 1077

Delta R.T. 0.006 min

Lab File: VV039254.D

Acq: 03 Oct 2025 16:56

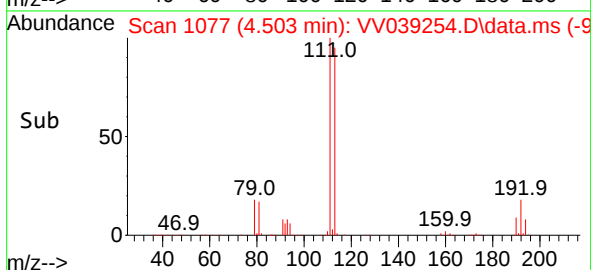
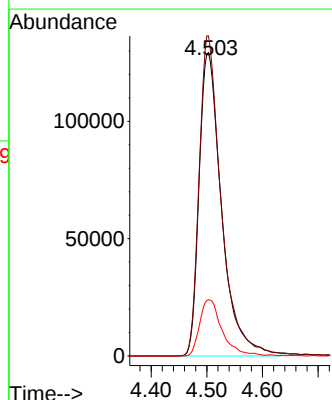
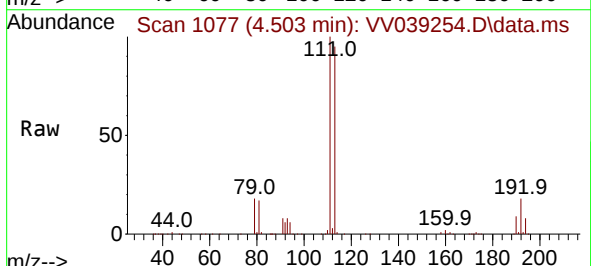
Tgt Ion:113 Resp: 363392

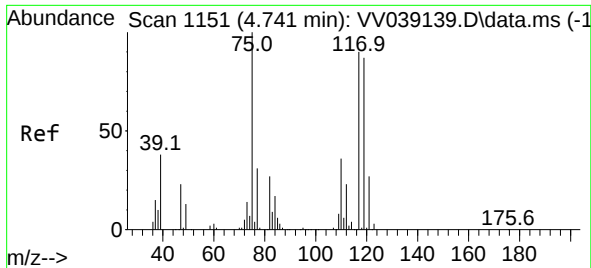
Ion Ratio Lower Upper

113 100

111 103.7 82.4 123.6

192 18.4 13.8 20.8

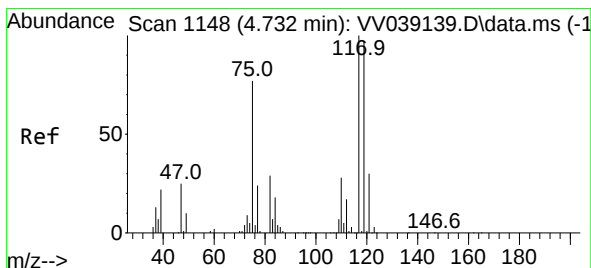
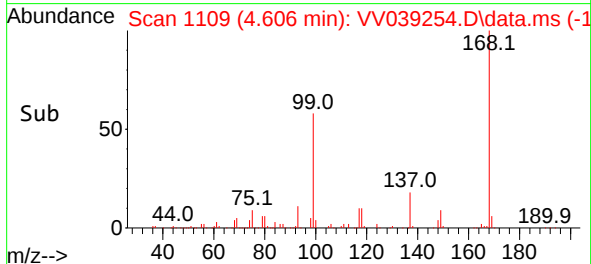
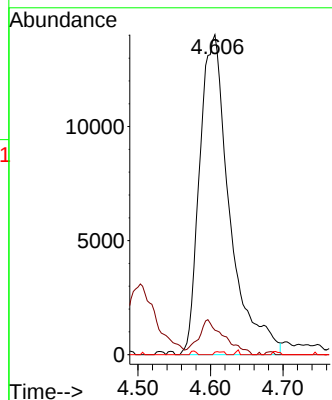
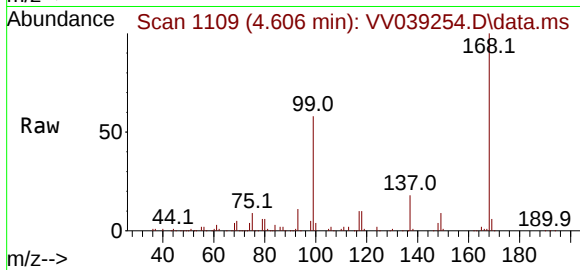




#36
 1,1-Dichloropropene
 Concen: 4.125 ug/l
 RT: 4.606 min Scan# 1109
 Delta R.T. -0.135 min
 Lab File: VV039254.D
 Acq: 03 Oct 2025 16:56

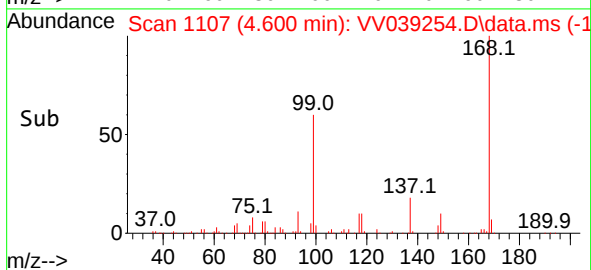
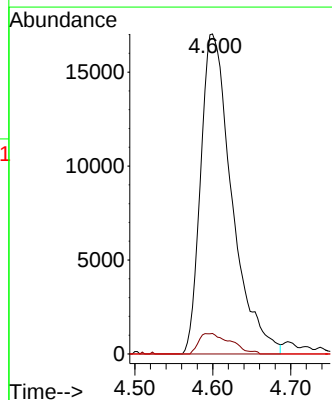
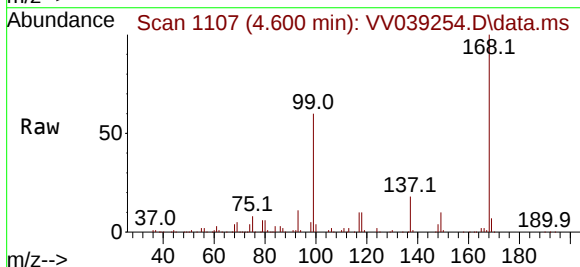
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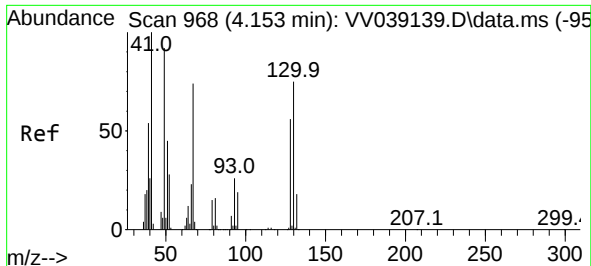
Tgt Ion: 75 Resp: 40163
 Ion Ratio Lower Upper
 75 100
 110 9.4 18.1 54.1#
 77 0.3 24.8 37.2#



#38
 Carbon Tetrachloride
 Concen: 3.979 ug/l
 RT: 4.600 min Scan# 1107
 Delta R.T. -0.132 min
 Lab File: VV039254.D
 Acq: 03 Oct 2025 16:56

Tgt Ion: 117 Resp: 47345
 Ion Ratio Lower Upper
 117 100
 119 6.4 77.2 115.8#
 121 0.0 24.2 36.2#

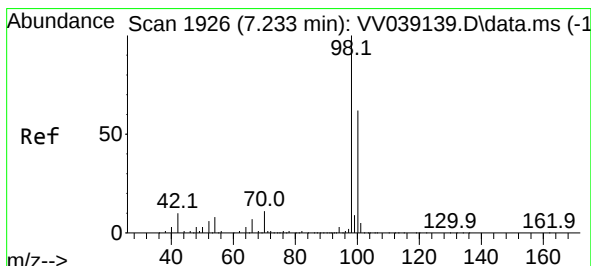
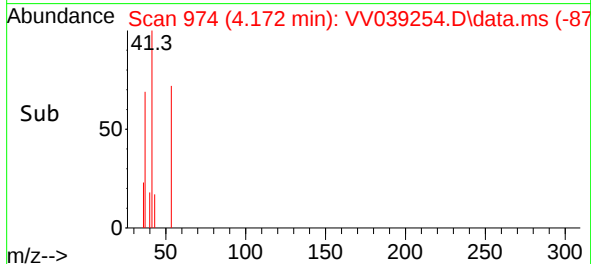
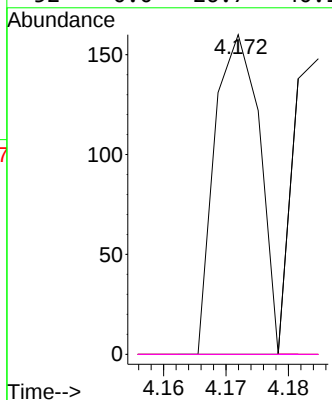
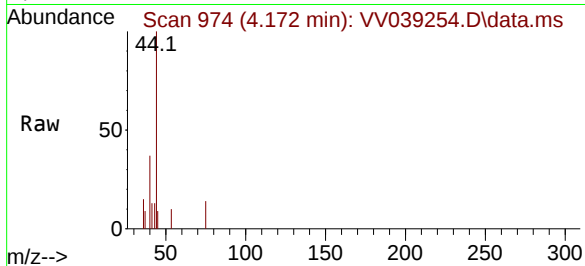




#41
Methacrylonitrile
Concen: 1.925 ug/l
RT: 4.172 min Scan# 91
Delta R.T. 0.019 min
Lab File: VV039254.D
Acq: 03 Oct 2025 16:56

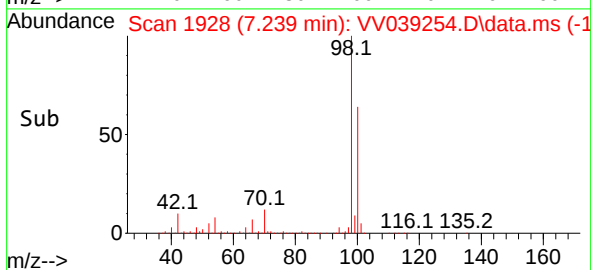
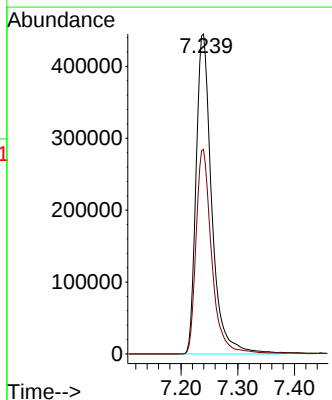
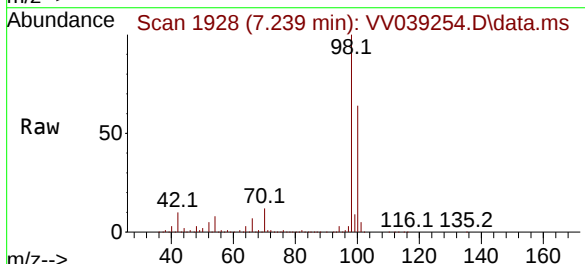
Instrument :
MSVOA_V
ClientSampleId :
MW-3

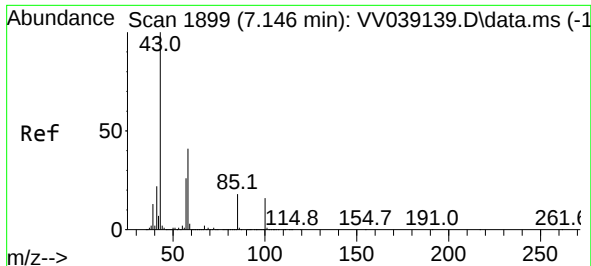
Tgt Ion: 41 Resp: 80
Ion Ratio Lower Upper
41 100
39 0.0 42.2 63.2#
67 0.0 67.9 101.9#
52 0.0 26.7 40.1#



#50
Toluene-d8
Concen: 45.183 ug/l
RT: 7.239 min Scan# 1928
Delta R.T. 0.006 min
Lab File: VV039254.D
Acq: 03 Oct 2025 16:56

Tgt Ion: 98 Resp: 854565
Ion Ratio Lower Upper
98 100
100 63.8 52.2 78.2





#51

4-Methyl-2-Pentanone

Concen: 0.350 ug/l

RT: 7.239 min Scan# 1928

Delta R.T. 0.093 min

Lab File: VV039254.D

Acq: 03 Oct 2025 16:56

Instrument :

MSVOA_V

ClientSampleId :

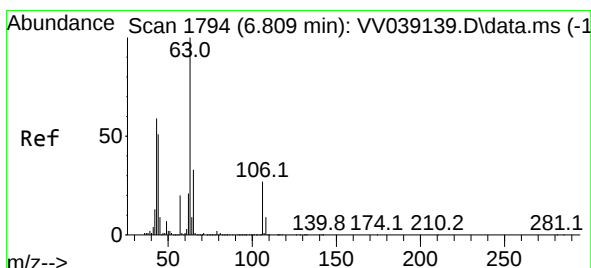
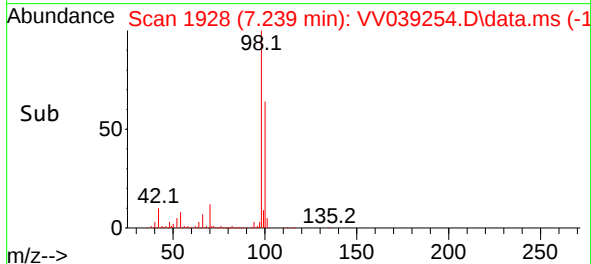
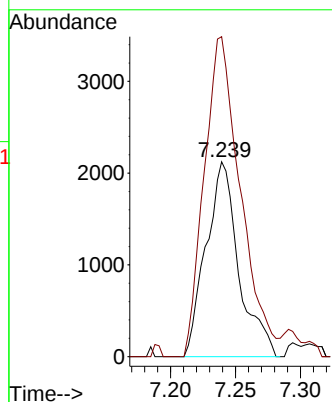
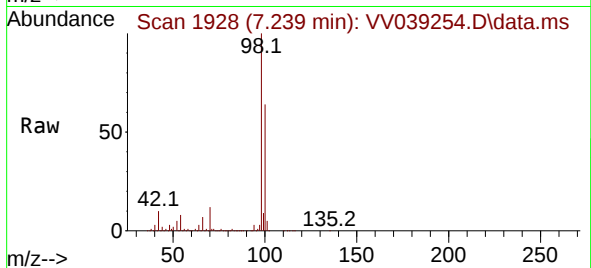
MW-3

Tgt Ion: 43 Resp: 3712

Ion Ratio Lower Upper

43 100

58 181.4 32.3 48.5#



#58

2-Chloroethyl Vinyl ether

Concen: 9.636 ug/l

RT: 6.821 min Scan# 1798

Delta R.T. 0.012 min

Lab File: VV039254.D

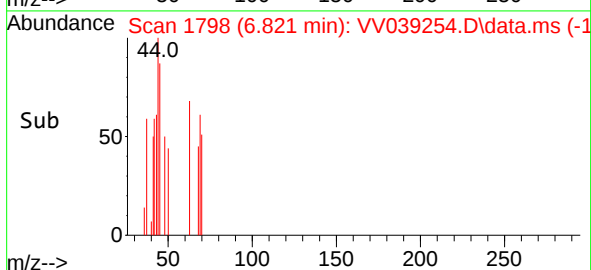
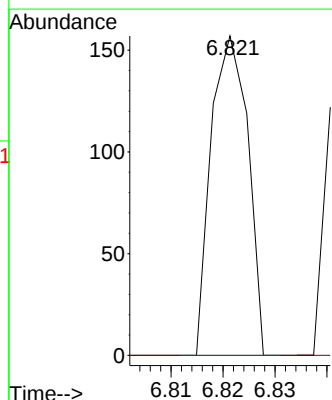
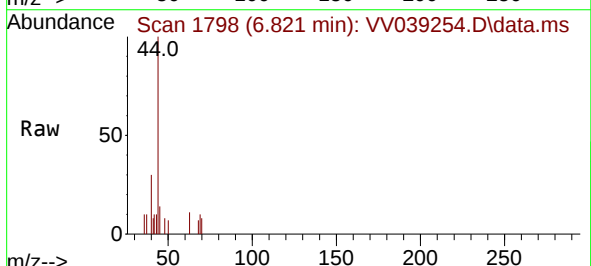
Acq: 03 Oct 2025 16:56

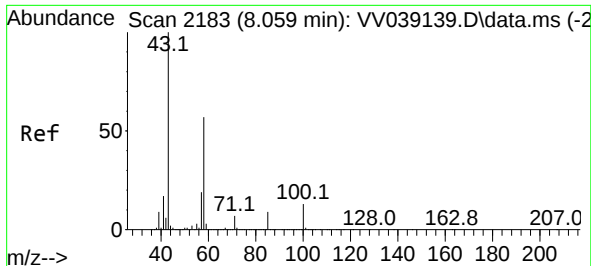
Tgt Ion: 63 Resp: 77

Ion Ratio Lower Upper

63 100

106 0.0 22.1 33.1#

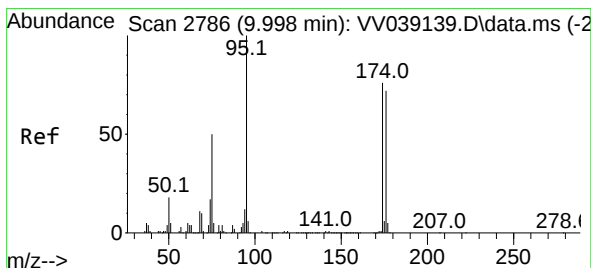
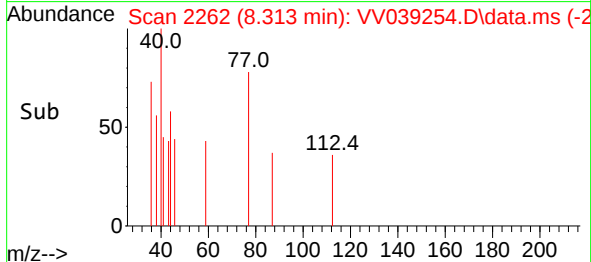
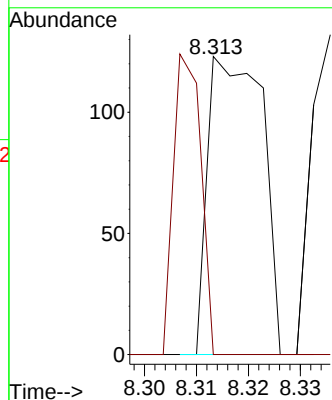
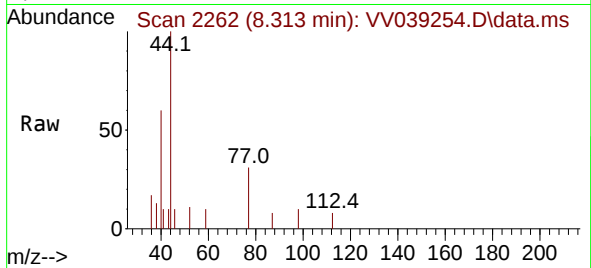




#59
2-Hexanone
Concen: 2.336 ug/l
RT: 8.313 min Scan# 2183
Delta R.T. 0.254 min
Lab File: VV039254.D
Acq: 03 Oct 2025 16:56

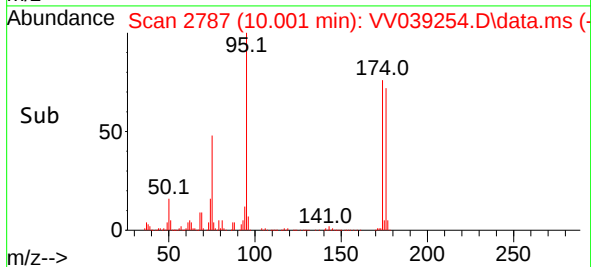
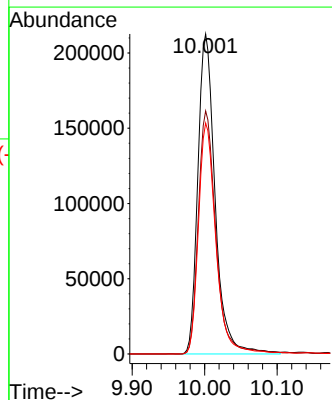
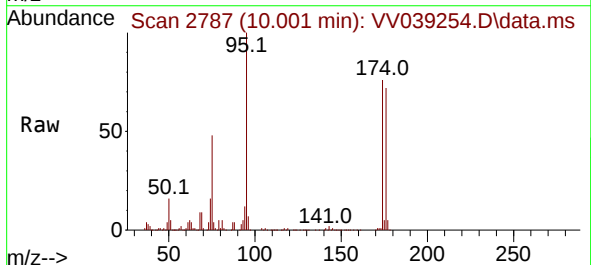
Instrument :
MSVOA_V
ClientSampleId :
MW-3

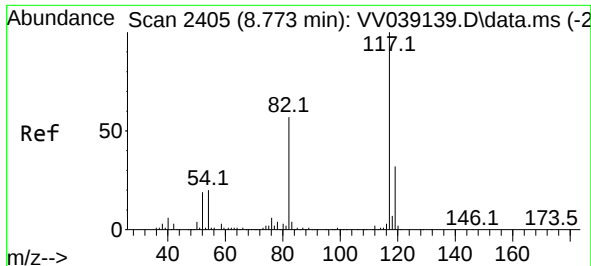
Tgt Ion: 43 Resp: 89
Ion Ratio Lower Upper
43 100
58 51.7 28.3 85.0



#62
4-Bromofluorobenzene
Concen: 45.250 ug/l
RT: 10.001 min Scan# 2787
Delta R.T. 0.003 min
Lab File: VV039254.D
Acq: 03 Oct 2025 16:56

Tgt Ion: 95 Resp: 352316
Ion Ratio Lower Upper
95 100
174 77.3 0.0 150.4
176 72.7 0.0 144.2

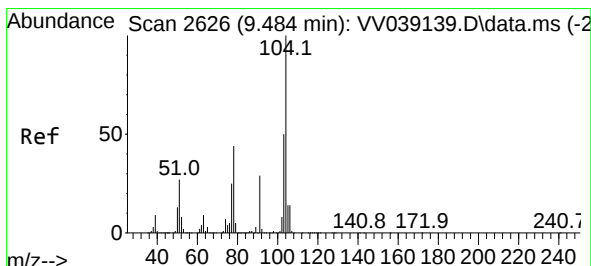
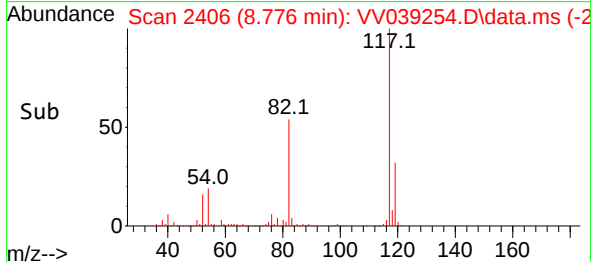
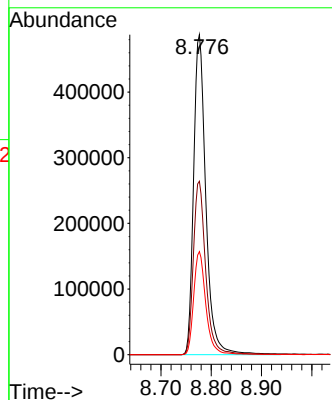
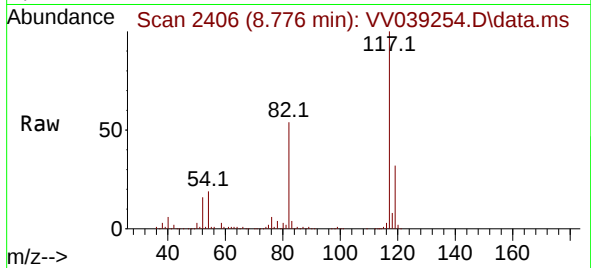




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 8.776 min Scan# 2405
Delta R.T. 0.003 min
Lab File: VV039254.D
Acq: 03 Oct 2025 16:56

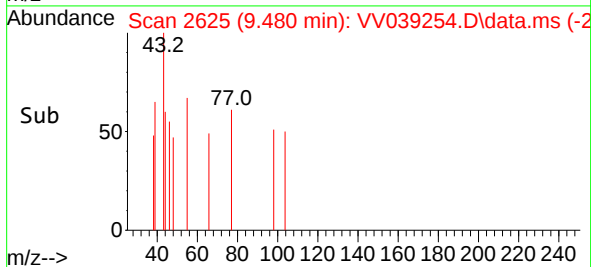
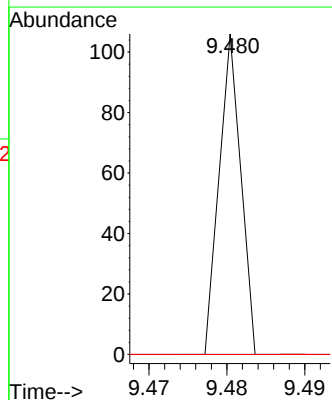
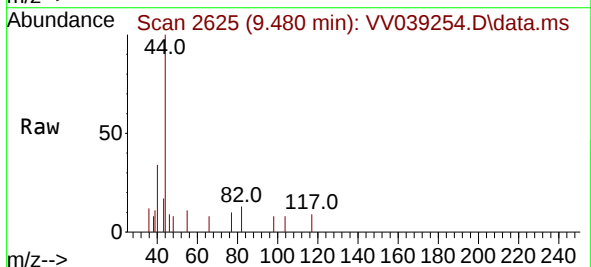
Instrument :
MSVOA_V
ClientSampleId :
MW-3

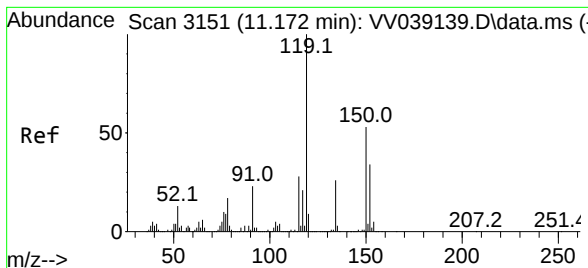
Tgt Ion:117 Resp: 823576
Ion Ratio Lower Upper
117 100
82 54.2 45.4 68.2
119 32.2 25.6 38.4



#70
Styrene
Concen: 1.562 ug/l
RT: 9.480 min Scan# 2625
Delta R.T. -0.004 min
Lab File: VV039254.D
Acq: 03 Oct 2025 16:56

Tgt Ion:104 Resp: 20
Ion Ratio Lower Upper
104 100
78 0.0 39.8 59.6#
103 0.0 43.4 65.2#





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 11.172 min Scan# 3151

Delta R.T. -0.000 min

Lab File: VV039254.D

Acq: 03 Oct 2025 16:56

Instrument :

MSVOA_V

ClientSampleId :

MW-3

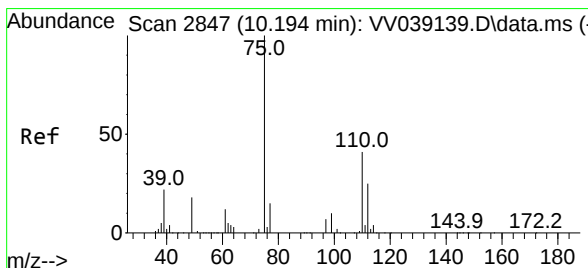
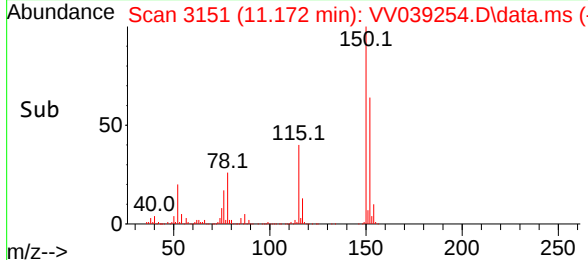
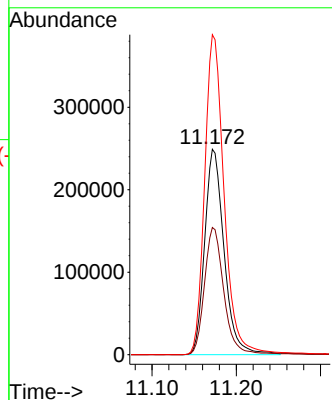
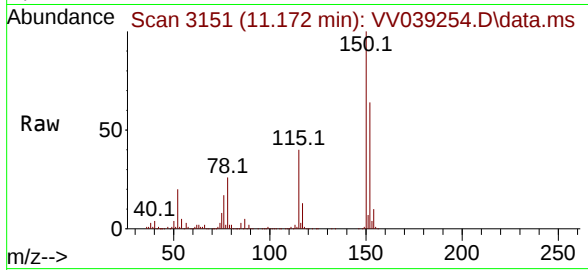
Tgt Ion:152 Resp: 400173

Ion Ratio Lower Upper

152 100

115 61.9 44.8 134.4

150 157.1 0.0 353.8



#76

1,2,3-Trichloropropane

Concen: 18.951 ug/l

RT: 10.001 min Scan# 2787

Delta R.T. -0.193 min

Lab File: VV039254.D

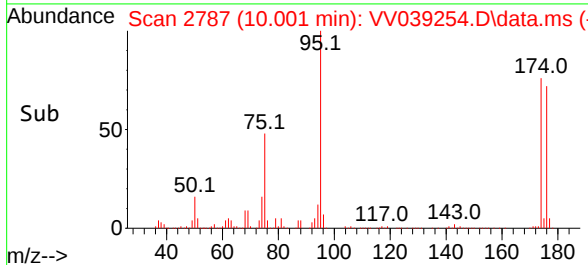
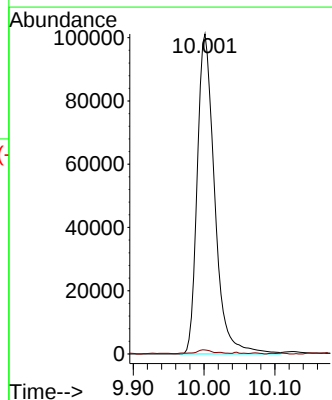
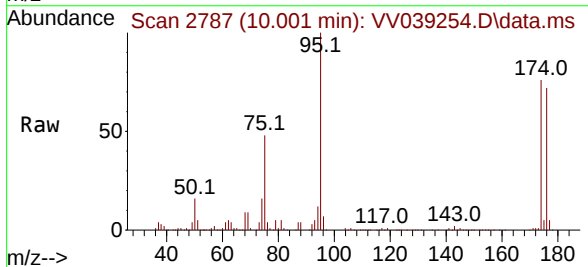
Acq: 03 Oct 2025 16:56

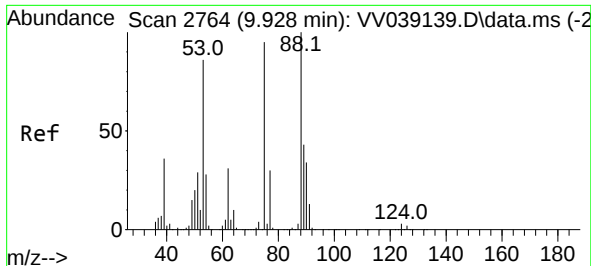
Tgt Ion: 75 Resp: 172672

Ion Ratio Lower Upper

75 100

77 0.8 11.3 33.8#

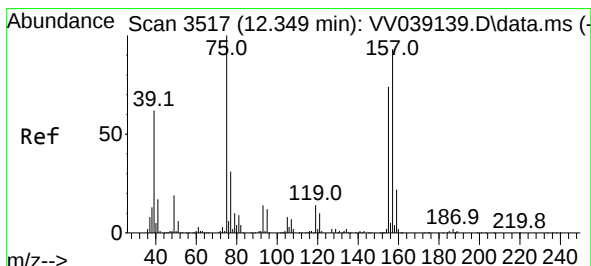
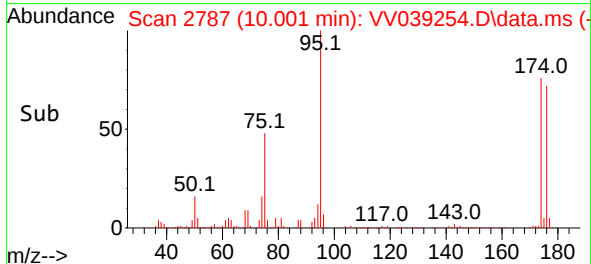
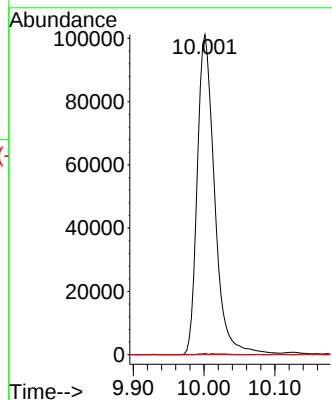
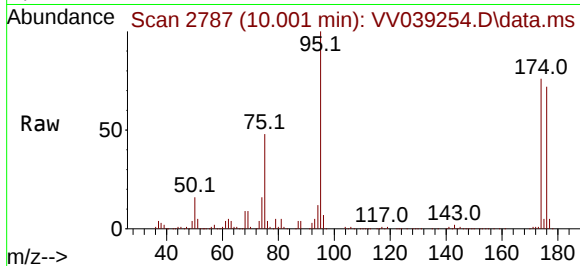




#81
trans-1,4-Dichloro-2-butene
Concen: 45.496 ug/l
RT: 10.001 min Scan# 21
Delta R.T. 0.074 min
Lab File: VV039254.D
Acq: 03 Oct 2025 16:56

Instrument :
MSVOA_V
ClientSampleId :
MW-3

Tgt Ion: 75 Resp: 172672
Ion Ratio Lower Upper
75 100
53 0.2 72.5 108.7#
89 0.0 37.2 55.8#



#92
1,2-Dibromo-3-Chloropropane
Concen: Below Cal
RT: 12.332 min Scan# 3512
Delta R.T. -0.017 min
Lab File: VV039254.D
Acq: 03 Oct 2025 16:56

Tgt Ion: 75 Resp: 43
Ion Ratio Lower Upper
75 100
155 0.0 38.6 115.8#
157 0.0 49.5 148.3#

