

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV100325\
 Data File : VV039253.D
 Acq On : 03 Oct 2025 16:34
 Operator : SY/MD
 Sample : Q3254-03
 Misc : 5.0mL/MSVOA_V/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 MW-2

Quant Time: Oct 04 01:13:21 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)

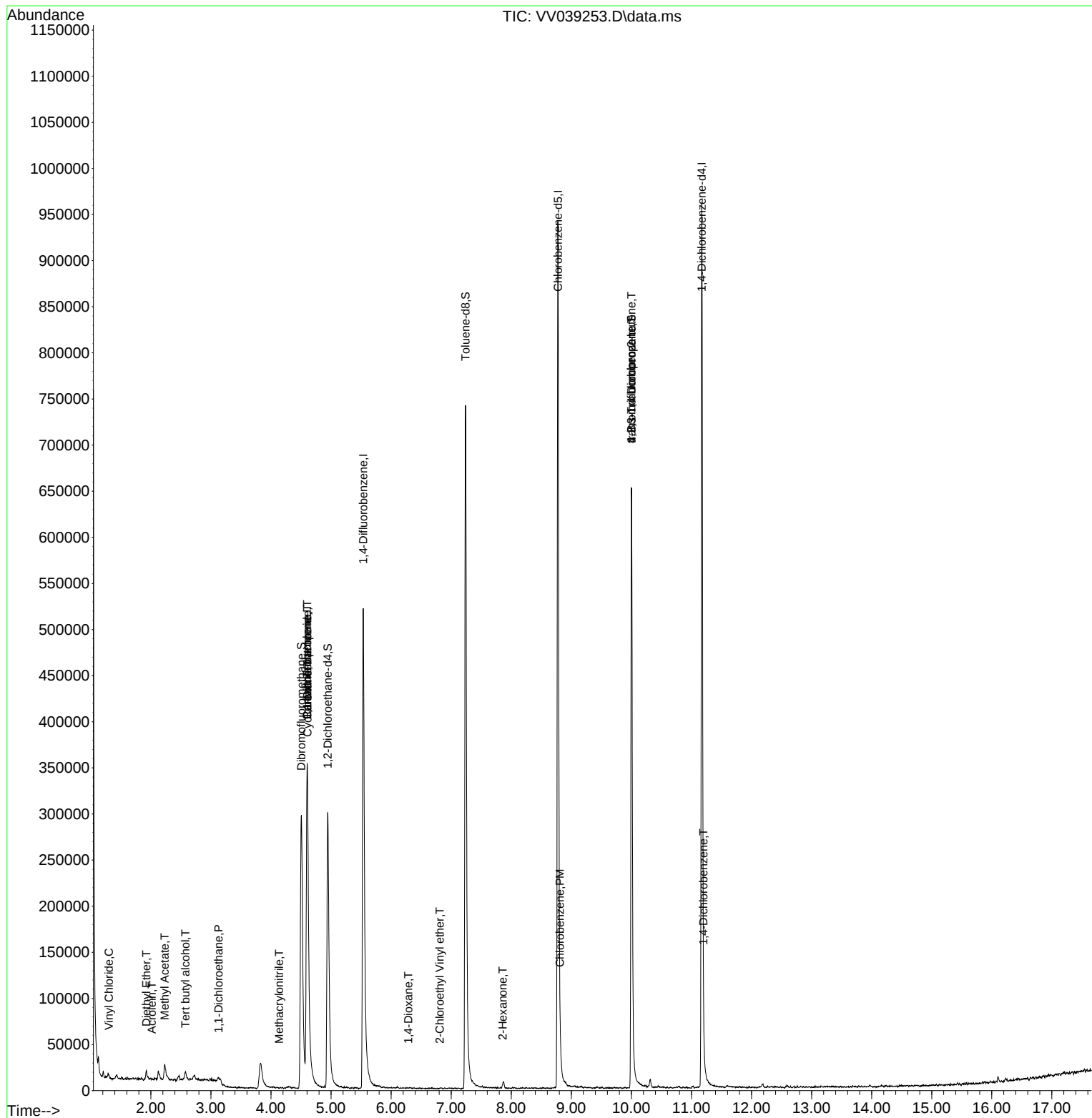
Internal Standards						
1) Pentafluorobenzene	4.603	168	308662	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	5.535	114	515390	50.000	ug/l	0.00
63) Chlorobenzene-d5	8.776	117	544820	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.172	152	261173	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.944	65	262159	58.685	ug/l	0.00
Spiked Amount 50.000	Range 81 - 118		Recovery = 117.360%			
35) Dibromofluoromethane	4.506	113	254272	61.369	ug/l	0.00
Spiked Amount 50.000	Range 80 - 119		Recovery = 122.740%#			
50) Toluene-d8	7.239	98	568796	46.741	ug/l	0.00
Spiked Amount 50.000	Range 89 - 112		Recovery = 93.480%			
62) 4-Bromofluorobenzene	10.001	95	231239	46.159	ug/l	0.00
Spiked Amount 50.000	Range 85 - 114		Recovery = 92.320%			
Target Compounds						
					Qvalue	
4) Vinyl Chloride	1.301	62	1896	0.338	ug/l	100
6) Chloroethane	1.548	64	105	Below Cal	#	1
8) Diethyl Ether	1.928	74	4207	1.394	ug/l	80
11) Tert butyl alcohol	2.574	59	8213	8.699	ug/l	97
13) Acrolein	2.015	56	66	0.403	ug/l #	1
16) Acetone	2.127	43	11946	Below Cal		89
18) Methyl Acetate	2.230	43	4708	0.711	ug/l #	52
20) Methylene Chloride	2.465	84	1612	Below Cal	#	79
24) 1,1-Dichloroethane	3.127	63	3113	0.320	ug/l #	88
31) Cyclohexane	4.609	56	6016	0.755	ug/l #	1
36) 1,1-Dichloropropene	4.603	75	24959	3.984	ug/l #	48
38) Carbon Tetrachloride	4.603	117	31716	4.143	ug/l #	16
41) Methacrylonitrile	4.137	41	155	1.954	ug/l #	19
49) 1,4-Dioxane	6.285	88	21	0.277	ug/l #	1
58) 2-Chloroethyl Vinyl ether	6.809	63	20	9.628	ug/l #	47
59) 2-Hexanone	7.857	43	227	2.366	ug/l	90
65) Chlorobenzene	8.812	112	14731	0.971	ug/l	98
76) 1,2,3-Trichloropropane	10.001	75	107860	18.138	ug/l #	55
81) trans-1,4-Dichloro-2-b...	10.001	75	107860	43.545	ug/l #	13
88) 1,4-Dichlorobenzene	11.201	146	4753	0.436	ug/l #	59
92) 1,2-Dibromo-3-Chloropr...	12.336	75	45	Below Cal	#	5

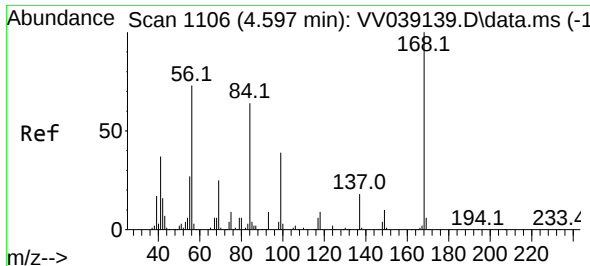
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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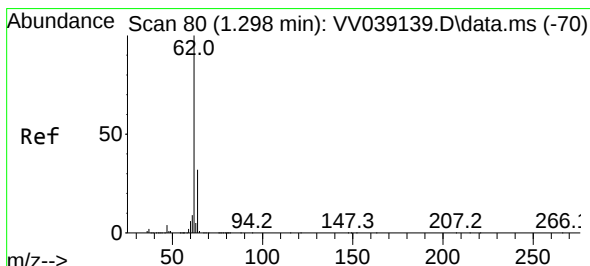
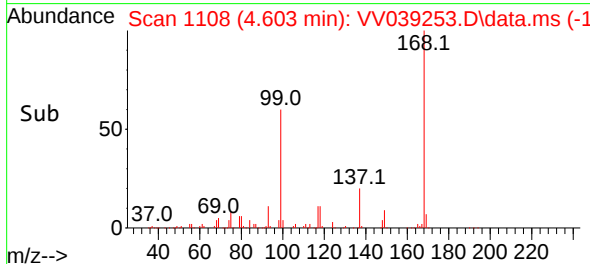
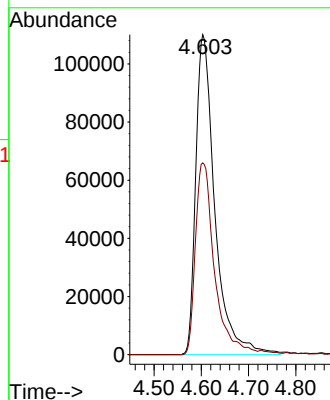
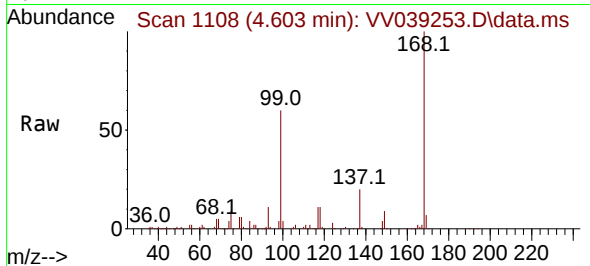




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 4.603 min Scan# 1108
Delta R.T. 0.006 min
Lab File: VV039253.D
Acq: 03 Oct 2025 16:34

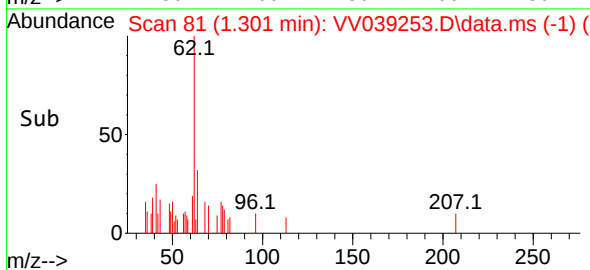
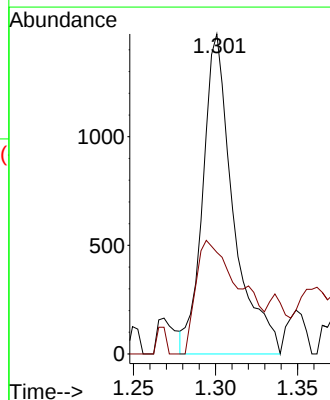
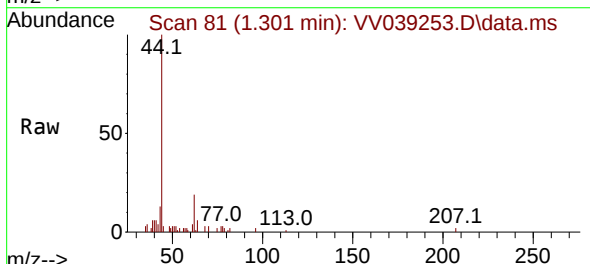
Instrument :
MSVOA_V
ClientSampleId :
MW-2

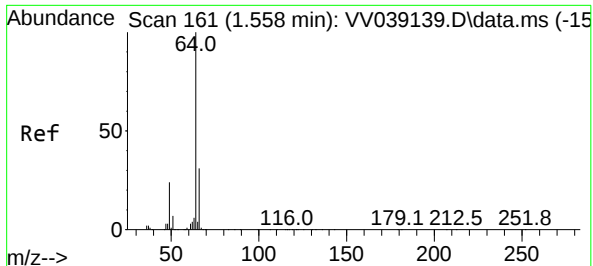
Tgt Ion:168 Resp: 308662
Ion Ratio Lower Upper
168 100
99 59.9 49.6 74.4



#4
Vinyl Chloride
Concen: 0.338 ug/l
RT: 1.301 min Scan# 81
Delta R.T. 0.003 min
Lab File: VV039253.D
Acq: 03 Oct 2025 16:34

Tgt Ion: 62 Resp: 1896
Ion Ratio Lower Upper
62 100
64 31.8 25.6 38.4

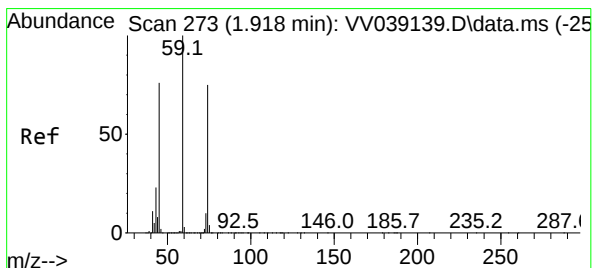
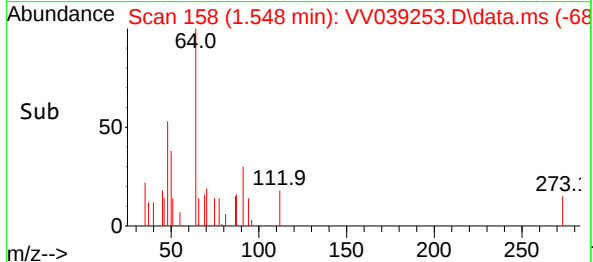
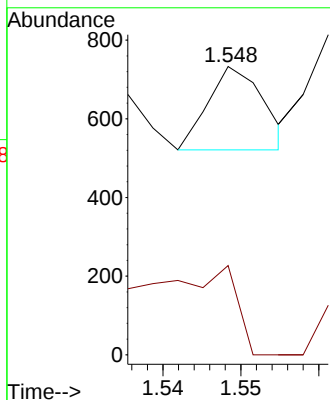
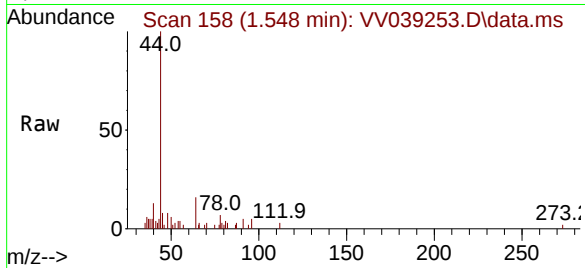




#6
Chloroethane
Concen: Below Cal
RT: 1.548 min Scan# 11
Delta R.T. -0.010 min
Lab File: VV039253.D
Acq: 03 Oct 2025 16:34

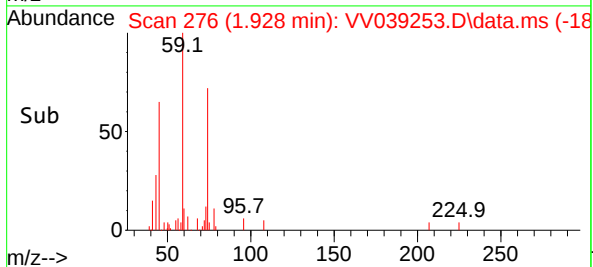
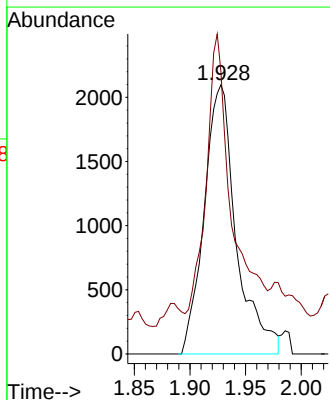
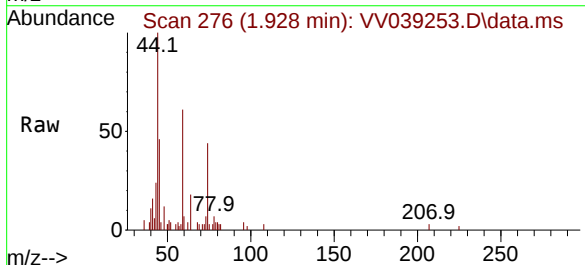
Instrument :
MSVOA_V
ClientSampleId :
MW-2

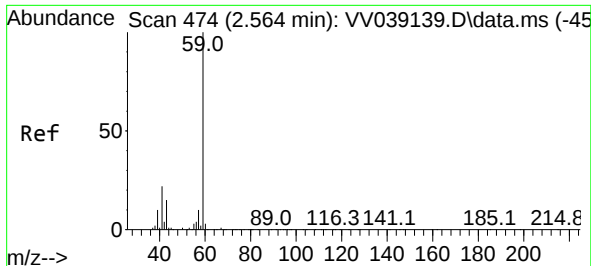
Tgt Ion: 64 Resp: 105
Ion Ratio Lower Upper
64 100
66 107.1 24.6 36.8#



#8
Diethyl Ether
Concen: 1.394 ug/l
RT: 1.928 min Scan# 276
Delta R.T. 0.010 min
Lab File: VV039253.D
Acq: 03 Oct 2025 16:34

Tgt Ion: 74 Resp: 4207
Ion Ratio Lower Upper
74 100
45 78.9 49.6 148.8





#11

Tert butyl alcohol

Concen: 8.699 ug/l

RT: 2.574 min Scan# 41

Delta R.T. 0.010 min

Lab File: VV039253.D

Acq: 03 Oct 2025 16:34

Instrument :

MSVOA_V

ClientSampleId :

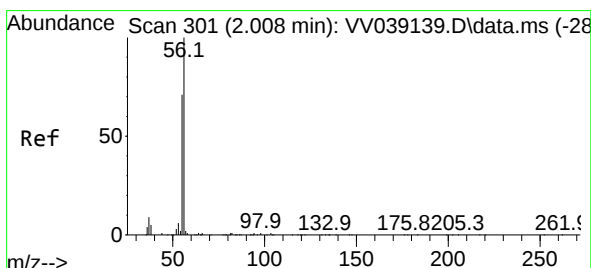
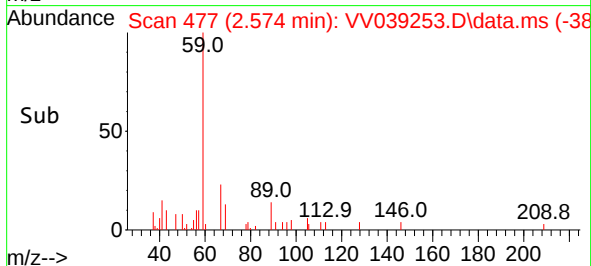
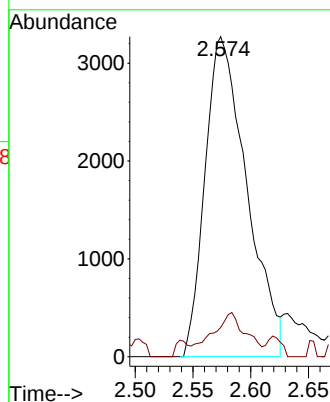
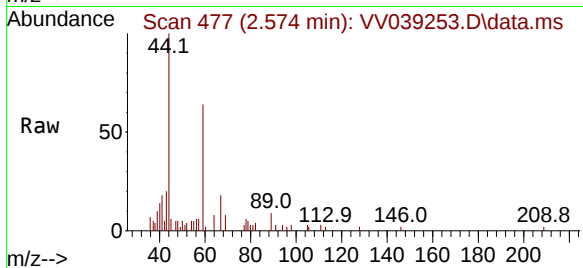
MW-2

Tgt Ion: 59 Resp: 8213

Ion Ratio Lower Upper

59 100

57 11.0 7.8 11.8



#13

Acrolein

Concen: 0.403 ug/l

RT: 2.015 min Scan# 303

Delta R.T. 0.006 min

Lab File: VV039253.D

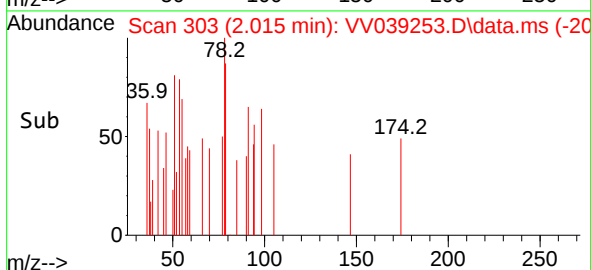
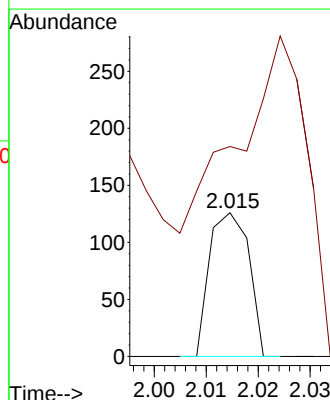
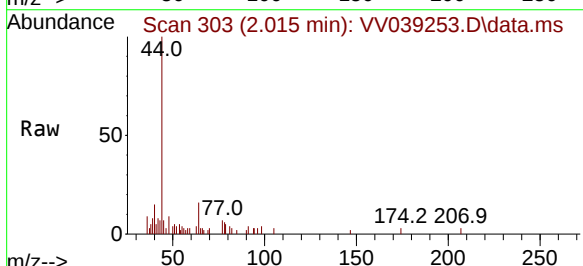
Acq: 03 Oct 2025 16:34

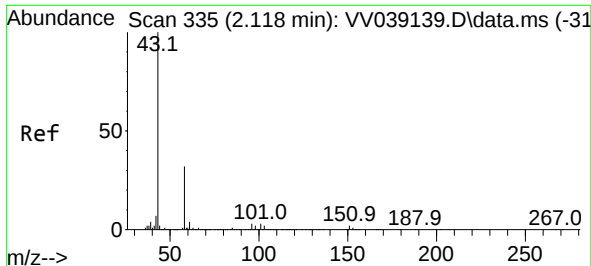
Tgt Ion: 56 Resp: 66

Ion Ratio Lower Upper

56 100

55 463.6 56.2 84.4#

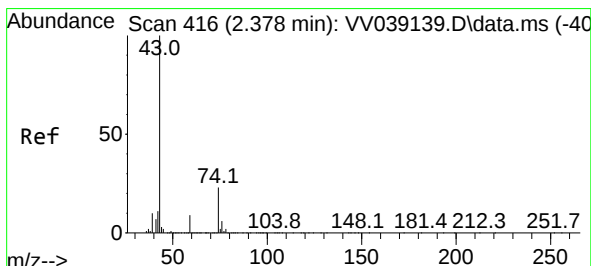
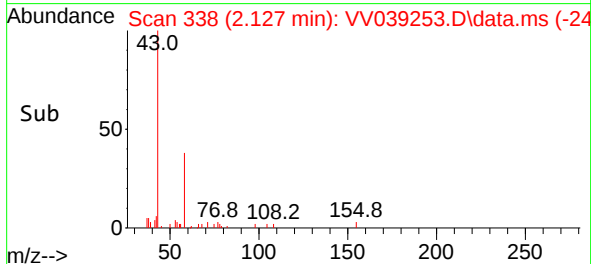
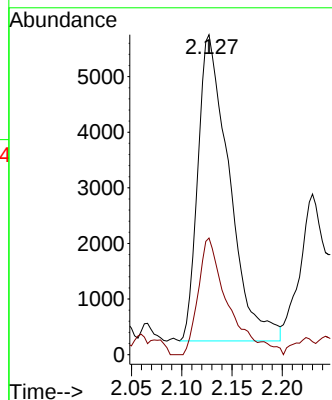
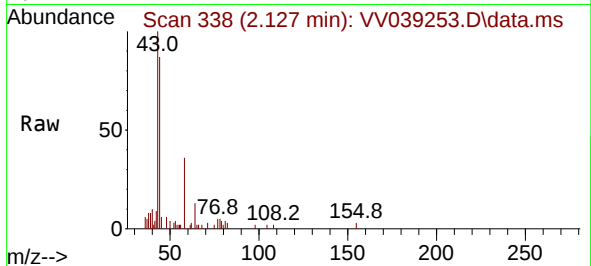




#16
Acetone
Concen: Below Cal
RT: 2.127 min Scan# 31
Delta R.T. 0.009 min
Lab File: VV039253.D
Acq: 03 Oct 2025 16:34

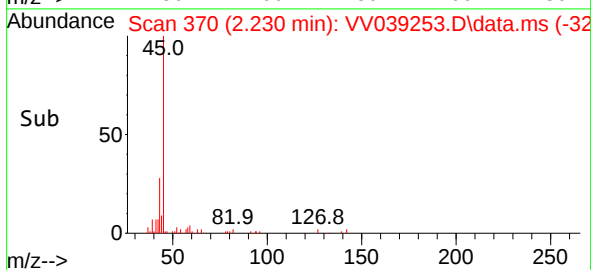
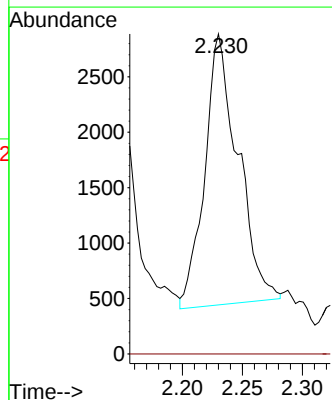
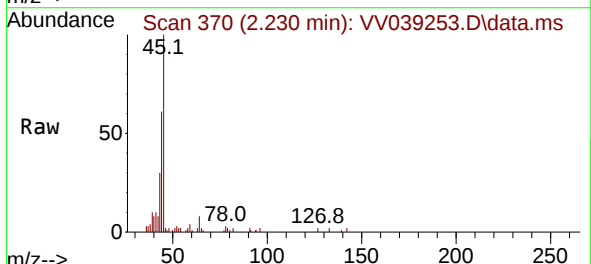
Instrument :
MSVOA_V
ClientSampleId :
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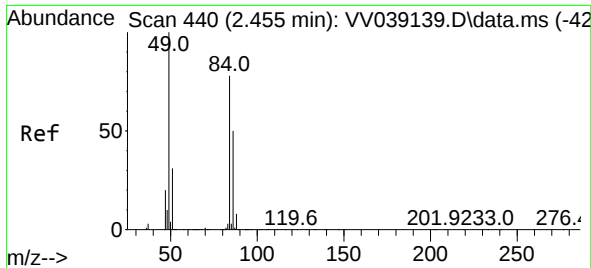
Tgt Ion: 43 Resp: 11946
Ion Ratio Lower Upper
43 100
58 38.1 25.8 38.6



#18
Methyl Acetate
Concen: 0.711 ug/l
RT: 2.230 min Scan# 370
Delta R.T. -0.148 min
Lab File: VV039253.D
Acq: 03 Oct 2025 16:34

Tgt Ion: 43 Resp: 4708
Ion Ratio Lower Upper
43 100
74 0.0 18.6 27.8#



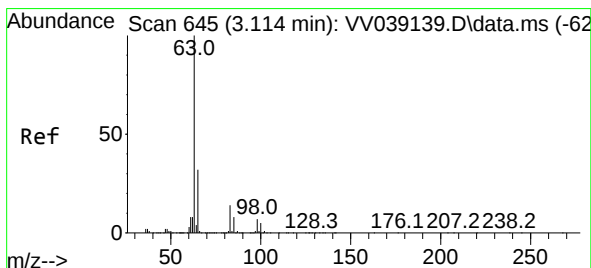
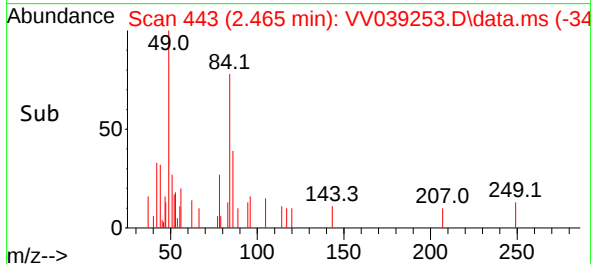
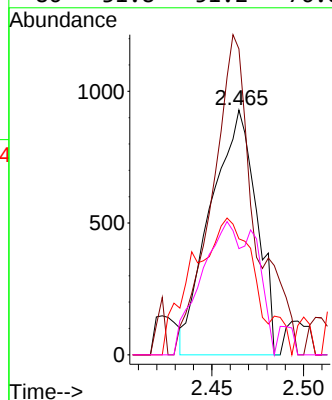
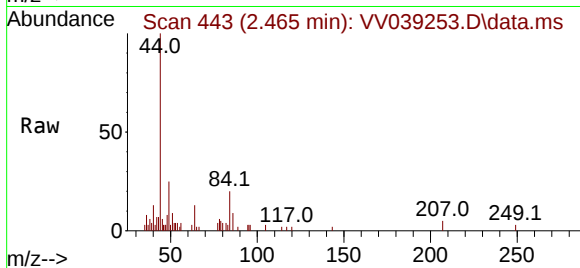


#20
Methylene Chloride
Concen: Below Cal
RT: 2.465 min Scan# 440
Delta R.T. 0.010 min
Lab File: VV039253.D
Acq: 03 Oct 2025 16:34

Instrument :
MSVOA_V
ClientSampleId :
MW-2

Tgt Ion: 84 Resp: 1612

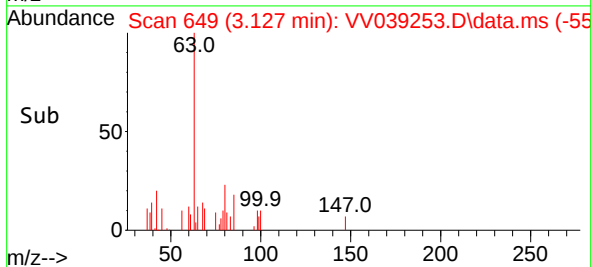
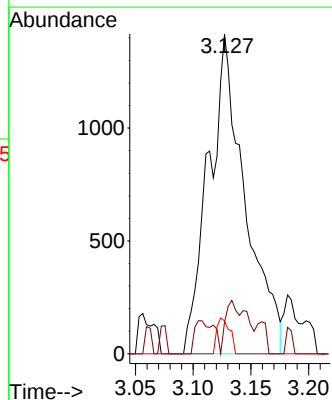
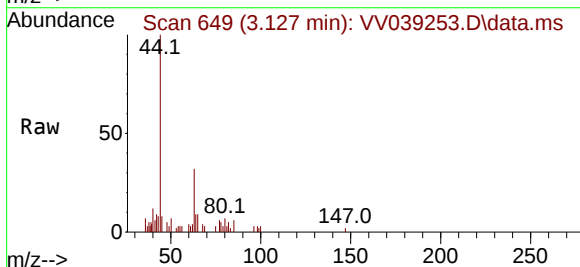
Ion	Ratio	Lower	Upper
84	100		
49	113.3	102.8	154.2
51	32.1	31.9	47.9
86	31.8	51.2	76.8

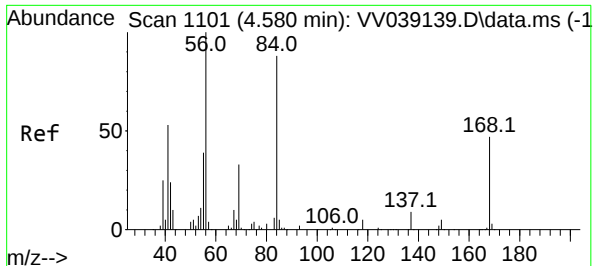


#24
1,1-Dichloroethane
Concen: 0.320 ug/l
RT: 3.127 min Scan# 649
Delta R.T. 0.013 min
Lab File: VV039253.D
Acq: 03 Oct 2025 16:34

Tgt Ion: 63 Resp: 3113

Ion	Ratio	Lower	Upper
63	100		
98	9.9	3.4	10.2
100	10.3	2.2	6.6

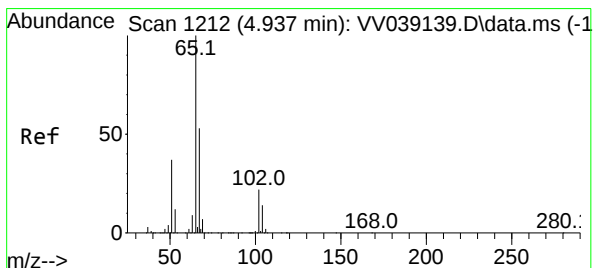
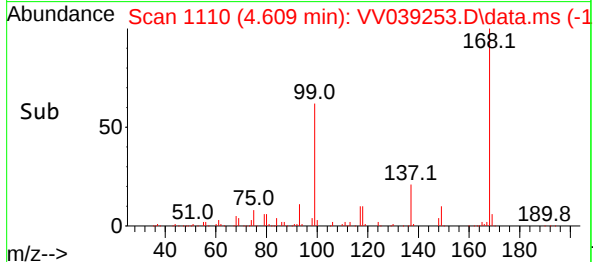
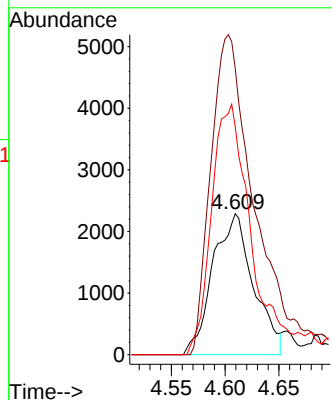
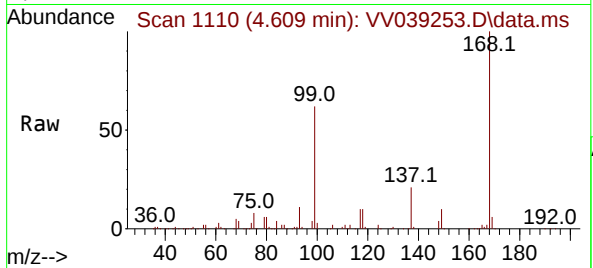




#31
Cyclohexane
Concen: 0.755 ug/l
RT: 4.609 min Scan# 1110
Delta R.T. 0.029 min
Lab File: VV039253.D
Acq: 03 Oct 2025 16:34

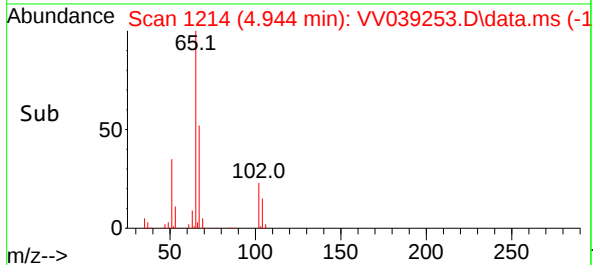
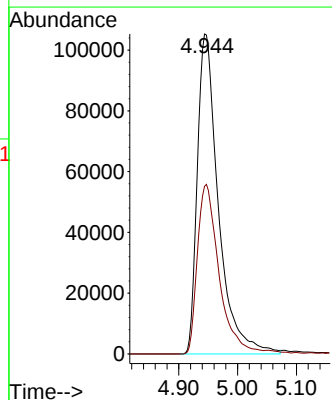
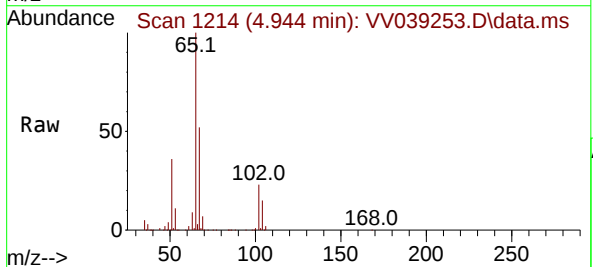
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ClientSampleId :
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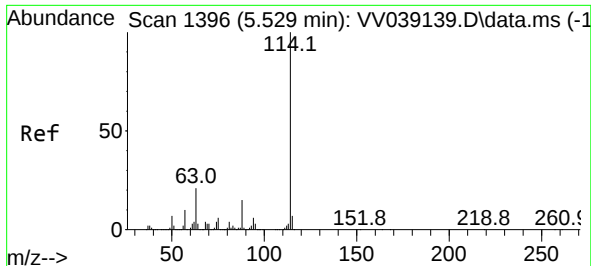
Tgt Ion: 56 Resp: 6016
Ion Ratio Lower Upper
56 100
69 203.2 26.2 39.2#
84 161.7 70.3 105.5#



#33
1,2-Dichloroethane-d4
Concen: 58.685 ug/l
RT: 4.944 min Scan# 1214
Delta R.T. 0.006 min
Lab File: VV039253.D
Acq: 03 Oct 2025 16:34

Tgt Ion: 65 Resp: 262159
Ion Ratio Lower Upper
65 100
67 54.3 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: VV039253.D

Acq: 03 Oct 2025 16:34

Instrument :

MSVOA_V

ClientSampleId :

MW-2

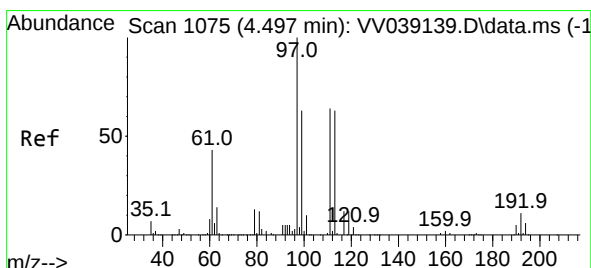
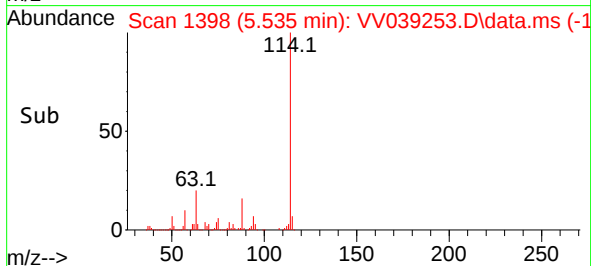
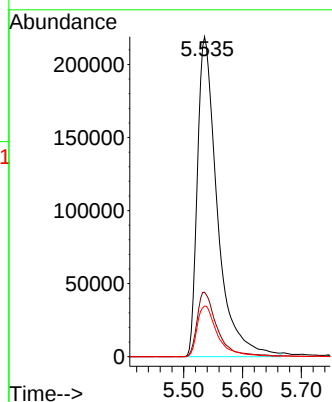
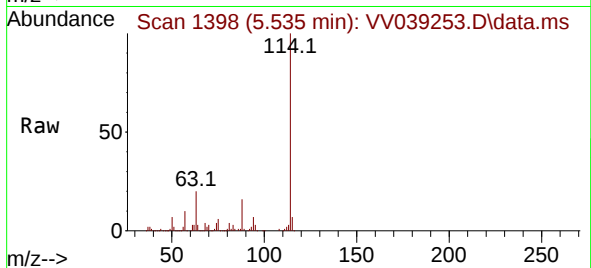
Tgt Ion:114 Resp: 515390

Ion Ratio Lower Upper

114 100

63 20.2 0.0 42.6

88 15.8 0.0 30.8



#35

Dibromofluoromethane

Concen: 61.369 ug/l

RT: 4.506 min Scan# 1078

Delta R.T. 0.010 min

Lab File: VV039253.D

Acq: 03 Oct 2025 16:34

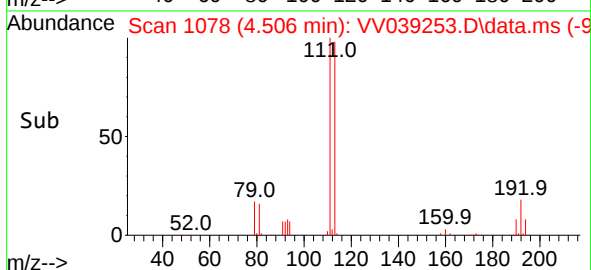
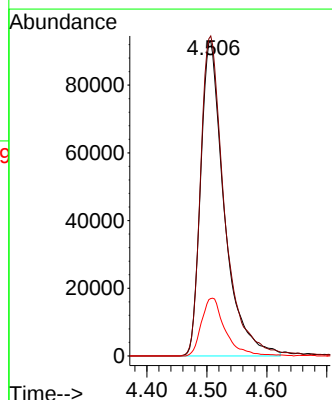
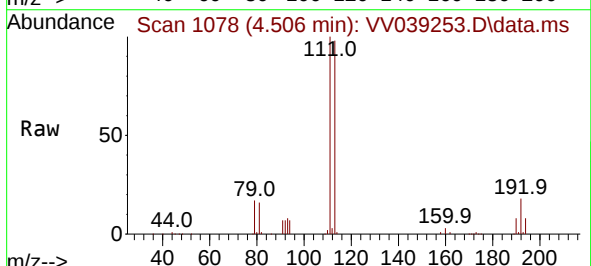
Tgt Ion:113 Resp: 254272

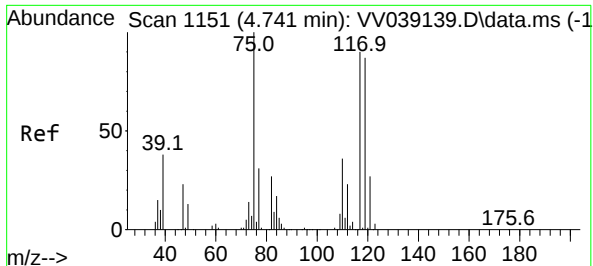
Ion Ratio Lower Upper

113 100

111 103.3 82.4 123.6

192 18.6 13.8 20.8





#36

1,1-Dichloropropene

Concen: 3.984 ug/l

RT: 4.603 min Scan# 1108

Delta R.T. -0.138 min

Lab File: VV039253.D

Acq: 03 Oct 2025 16:34

Instrument :

MSVOA_V

ClientSampleId :

MW-2

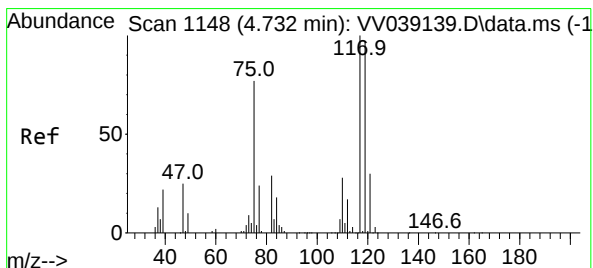
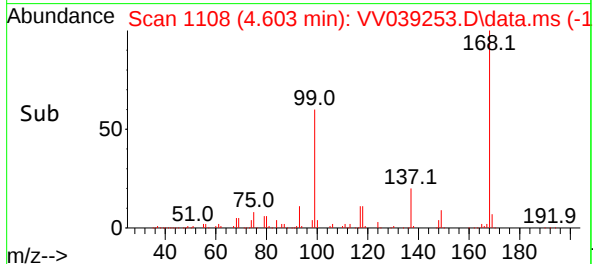
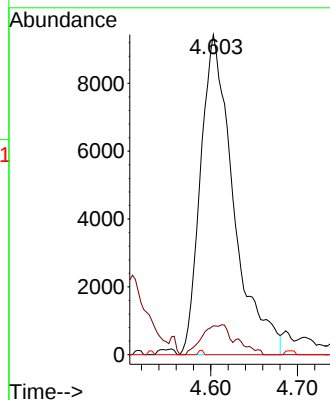
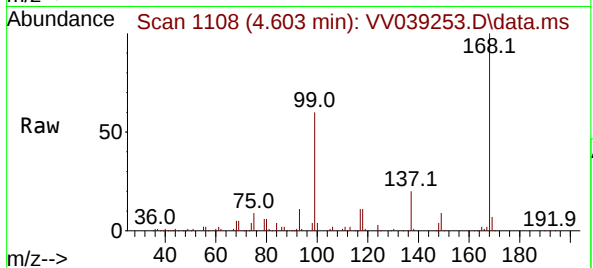
Tgt Ion: 75 Resp: 24959

Ion Ratio Lower Upper

75 100

110 7.6 18.1 54.1#

77 0.0 24.8 37.2#



#38

Carbon Tetrachloride

Concen: 4.143 ug/l

RT: 4.603 min Scan# 1108

Delta R.T. -0.129 min

Lab File: VV039253.D

Acq: 03 Oct 2025 16:34

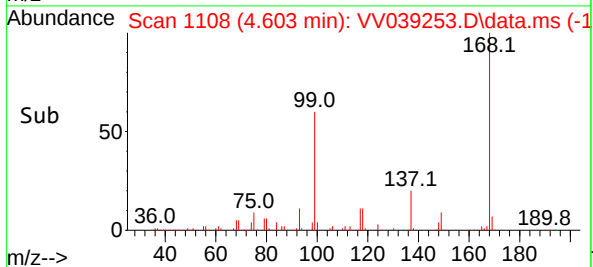
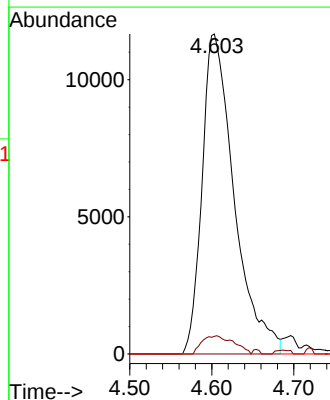
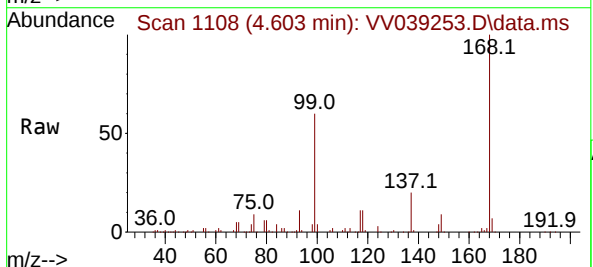
Tgt Ion: 117 Resp: 31716

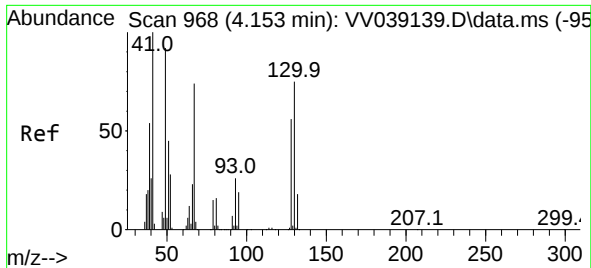
Ion Ratio Lower Upper

117 100

119 5.5 77.2 115.8#

121 0.0 24.2 36.2#

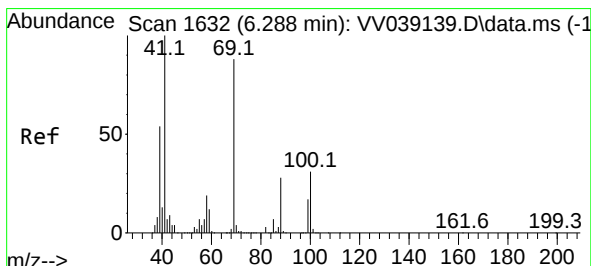
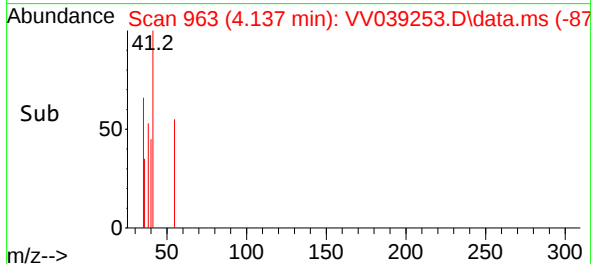
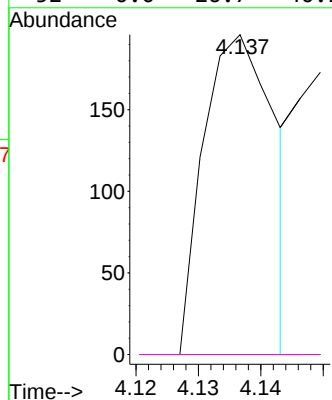
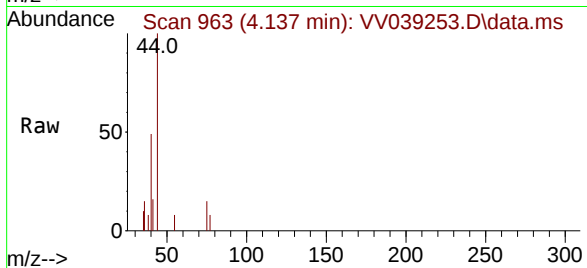




#41
Methacrylonitrile
Concen: 1.954 ug/l
RT: 4.137 min Scan# 963
Delta R.T. -0.016 min
Lab File: VV039253.D
Acq: 03 Oct 2025 16:34

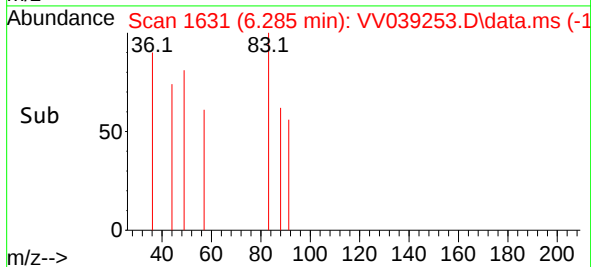
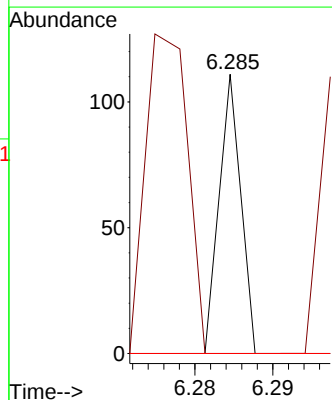
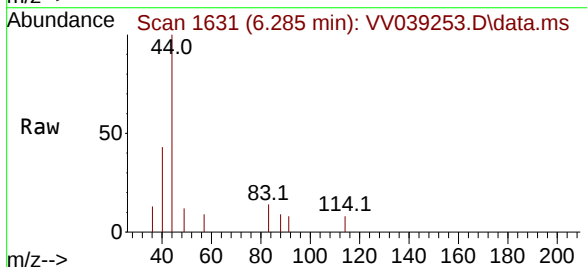
Instrument :
MSVOA_V
ClientSampleId :
MW-2

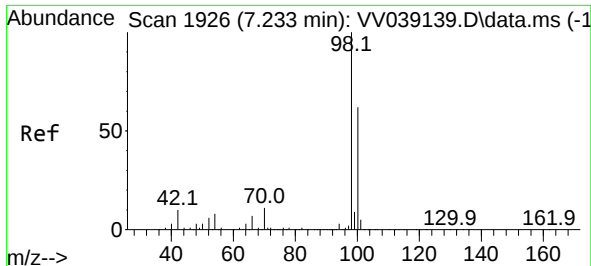
Tgt Ion:	41	Resp:	155
Ion	Ratio	Lower	Upper
41	100		
39	0.0	42.2	63.2#
67	0.0	67.9	101.9#
52	0.0	26.7	40.1#



#49
1,4-Dioxane
Concen: 0.277 ug/l
RT: 6.285 min Scan# 1631
Delta R.T. -0.003 min
Lab File: VV039253.D
Acq: 03 Oct 2025 16:34

Tgt Ion:	88	Resp:	21
Ion	Ratio	Lower	Upper
88	100		
43	228.6	25.1	37.7#
58	0.0	53.6	80.4#

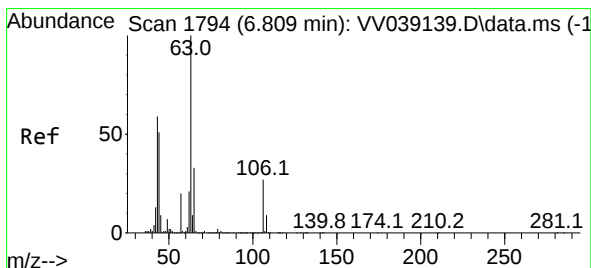
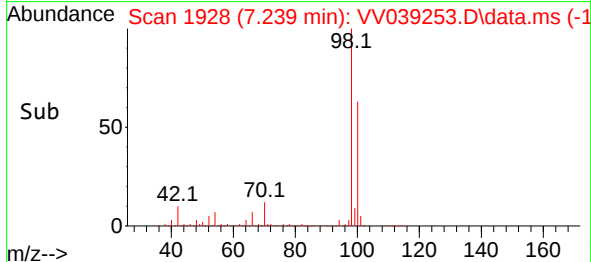
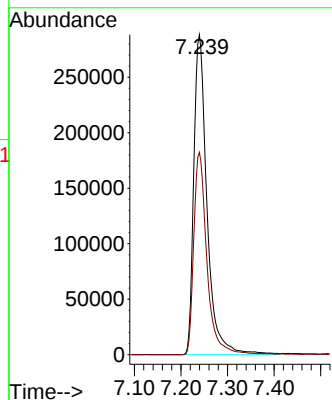
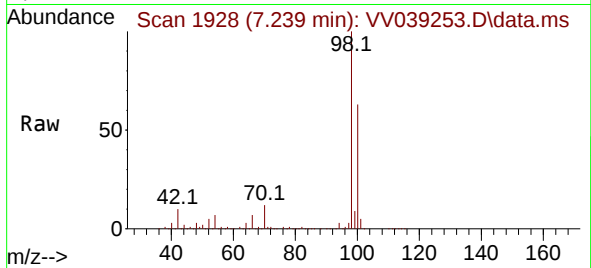




#50
Toluene-d8
Concen: 46.741 ug/l
RT: 7.239 min Scan# 1926
Delta R.T. 0.006 min
Lab File: VV039253.D
Acq: 03 Oct 2025 16:34

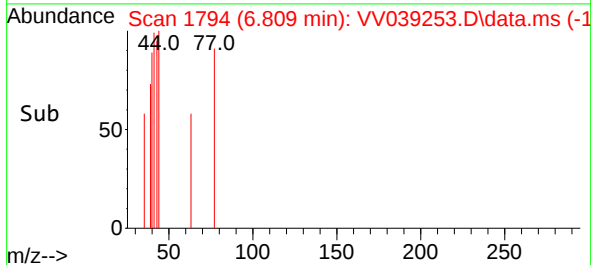
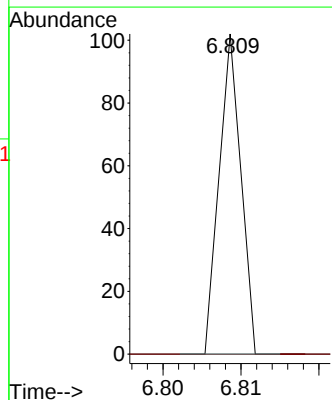
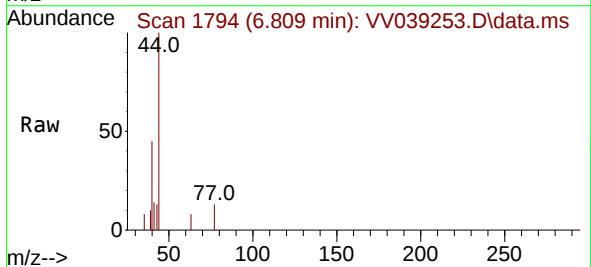
Instrument :
MSVOA_V
ClientSampleId :
MW-2

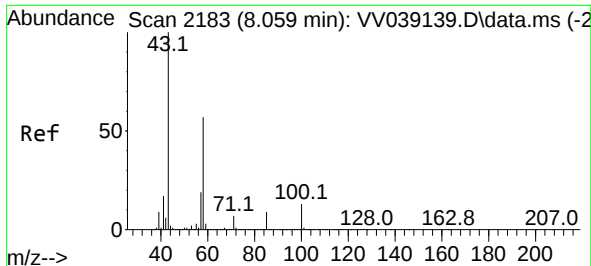
Tgt Ion: 98 Resp: 568796
Ion Ratio Lower Upper
98 100
100 62.7 52.2 78.2



#58
2-Chloroethyl Vinyl ether
Concen: 9.628 ug/l
RT: 6.809 min Scan# 1794
Delta R.T. -0.000 min
Lab File: VV039253.D
Acq: 03 Oct 2025 16:34

Tgt Ion: 63 Resp: 20
Ion Ratio Lower Upper
63 100
106 0.0 22.1 33.1#





#59

2-Hexanone

Concen: 2.366 ug/l

RT: 7.857 min Scan# 2183

Delta R.T. -0.202 min

Lab File: VV039253.D

Acq: 03 Oct 2025 16:34

Instrument :

MSVOA_V

ClientSampleId :

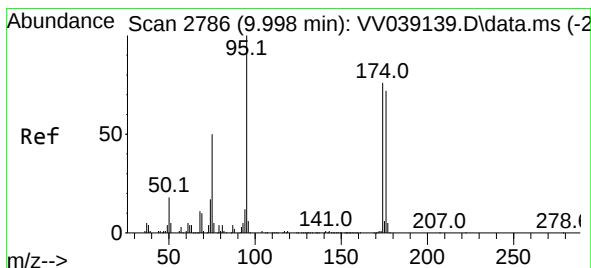
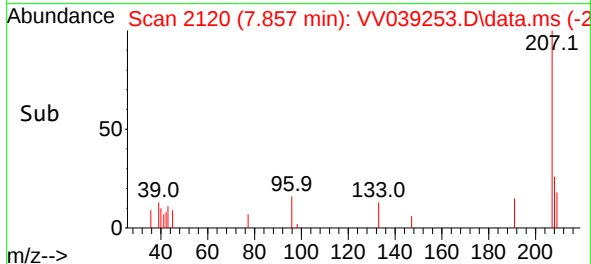
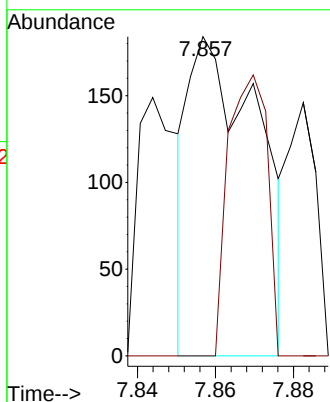
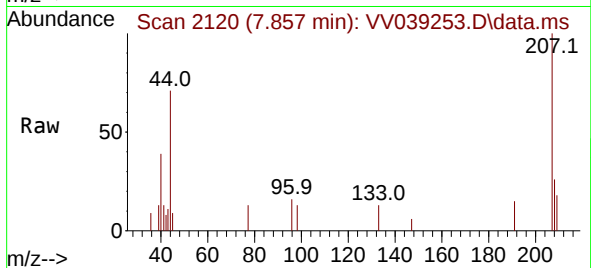
MW-2

Tgt Ion: 43 Resp: 227

Ion Ratio Lower Upper

43 100

58 49.3 28.3 85.0



#62

4-Bromofluorobenzene

Concen: 46.159 ug/l

RT: 10.001 min Scan# 2787

Delta R.T. 0.003 min

Lab File: VV039253.D

Acq: 03 Oct 2025 16:34

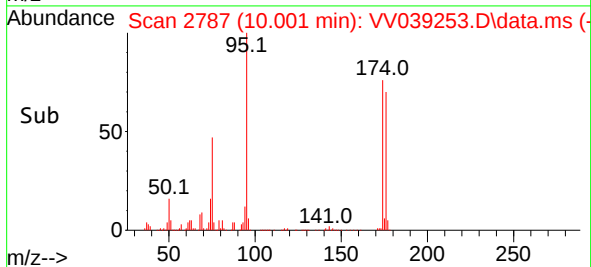
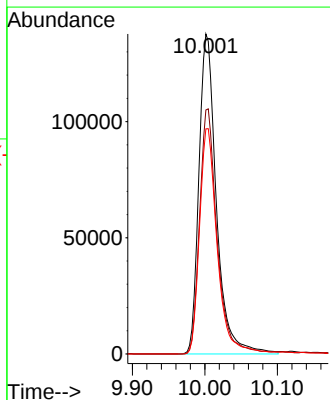
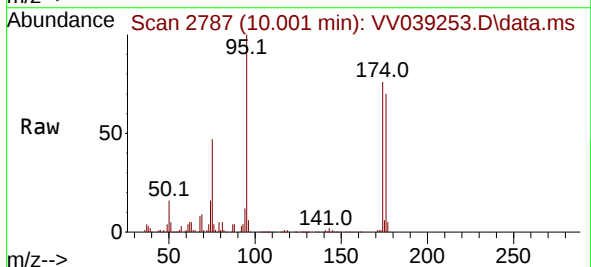
Tgt Ion: 95 Resp: 231239

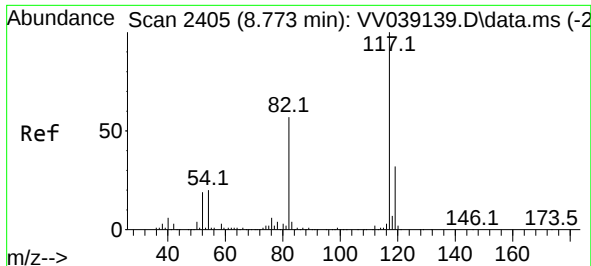
Ion Ratio Lower Upper

95 100

174 76.8 0.0 150.4

176 71.2 0.0 144.2

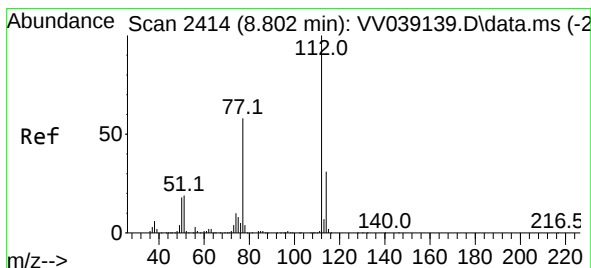
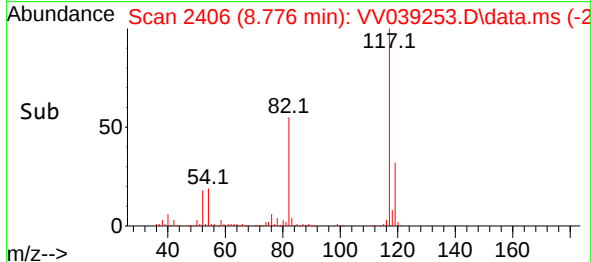
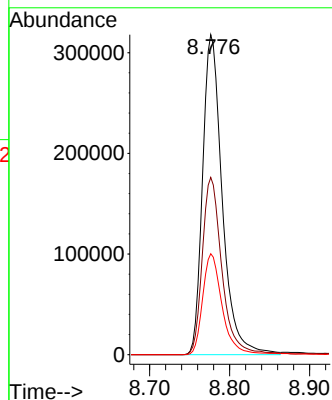
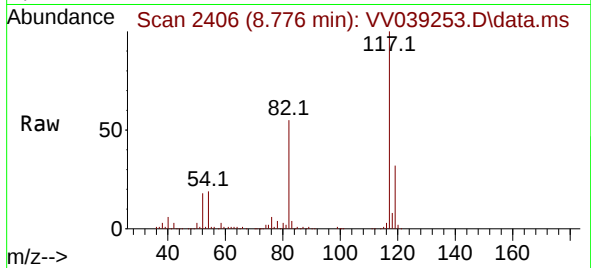




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 8.776 min Scan# 2406
Delta R.T. 0.003 min
Lab File: VV039253.D
Acq: 03 Oct 2025 16:34

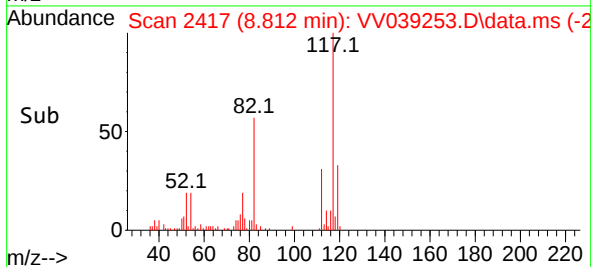
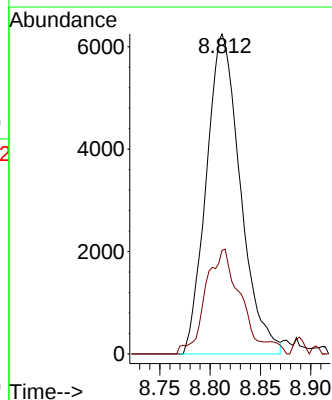
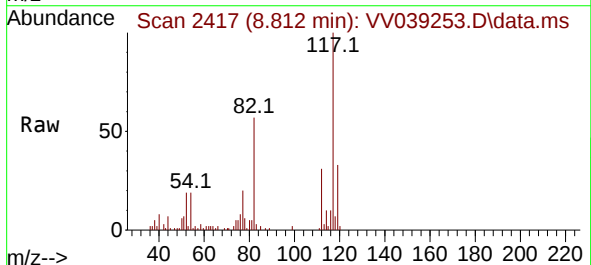
Instrument :
MSVOA_V
ClientSampleId :
MW-2

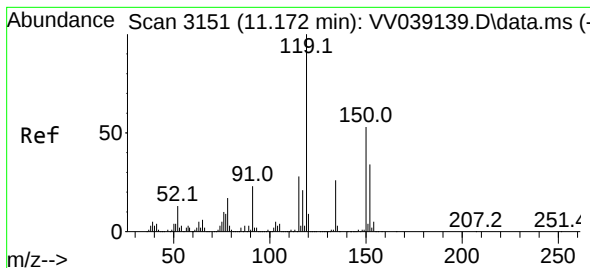
Tgt Ion:117 Resp: 544820
Ion Ratio Lower Upper
117 100
82 55.4 45.4 68.2
119 31.6 25.6 38.4



#65
Chlorobenzene
Concen: 0.971 ug/l
RT: 8.812 min Scan# 2417
Delta R.T. 0.010 min
Lab File: VV039253.D
Acq: 03 Oct 2025 16:34

Tgt Ion:112 Resp: 14731
Ion Ratio Lower Upper
112 100
114 29.9 24.6 37.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 11.172 min Scan# 3151

Delta R.T. -0.000 min

Lab File: VV039253.D

Acq: 03 Oct 2025 16:34

Instrument :

MSVOA_V

ClientSampleId :

MW-2

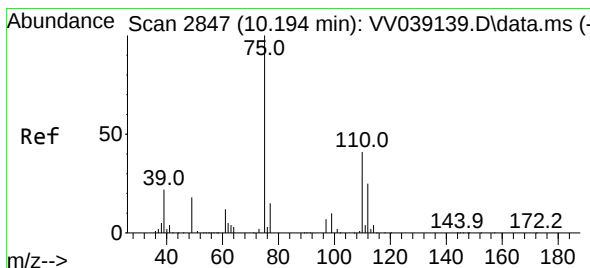
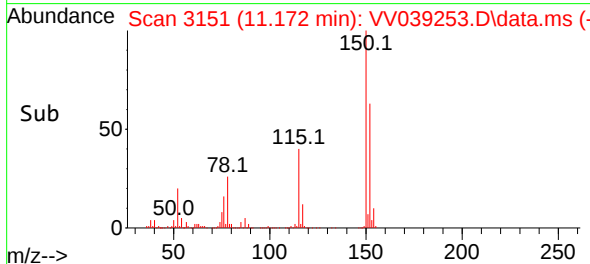
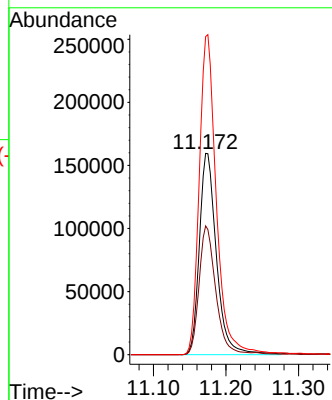
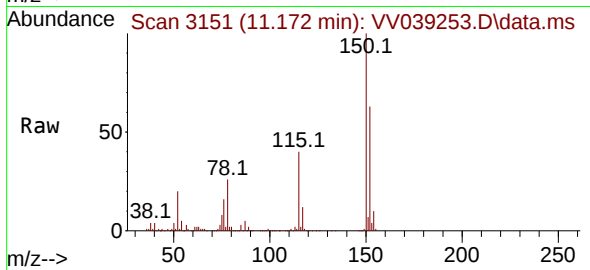
Tgt Ion:152 Resp: 261173

Ion Ratio Lower Upper

152 100

115 62.2 44.8 134.4

150 159.8 0.0 353.8



#76

1,2,3-Trichloropropane

Concen: 18.138 ug/l

RT: 10.001 min Scan# 2787

Delta R.T. -0.193 min

Lab File: VV039253.D

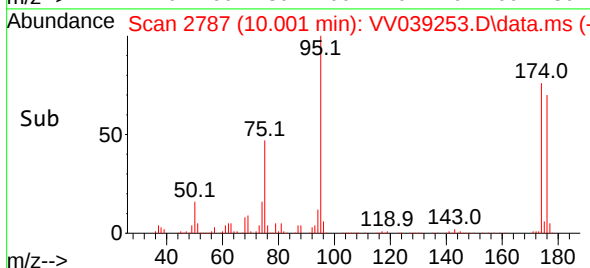
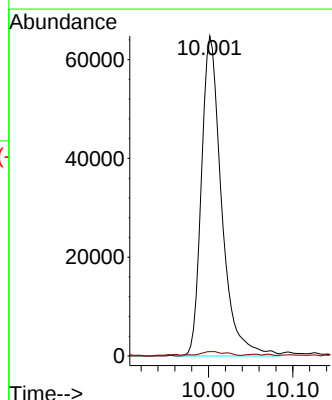
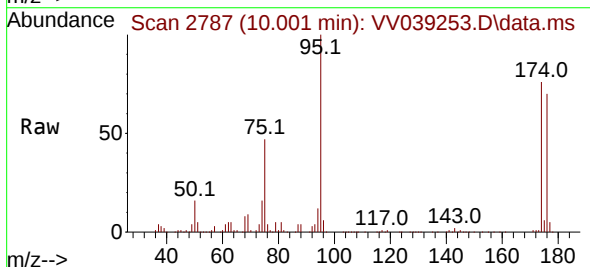
Acq: 03 Oct 2025 16:34

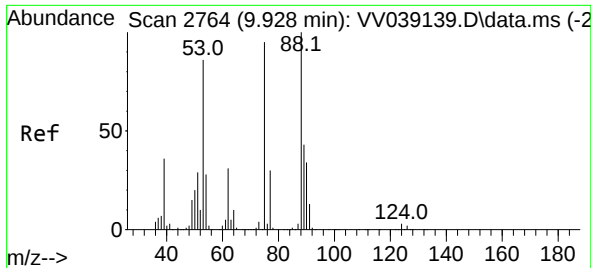
Tgt Ion: 75 Resp: 107860

Ion Ratio Lower Upper

75 100

77 0.9 11.3 33.8#

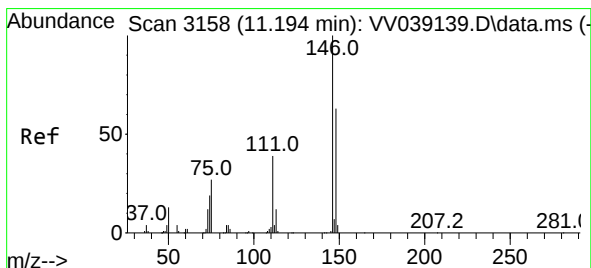
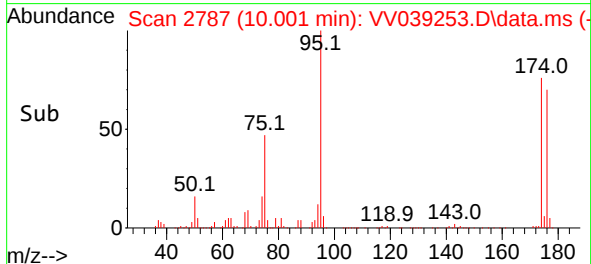
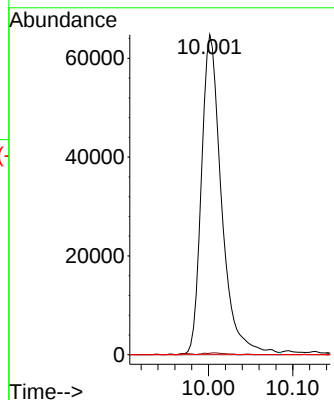
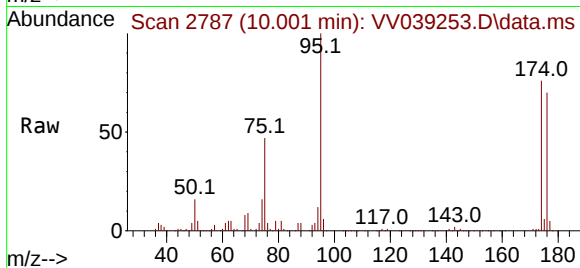




#81
trans-1,4-Dichloro-2-butene
Concen: 43.545 ug/l
RT: 10.001 min Scan# 21
Delta R.T. 0.074 min
Lab File: VV039253.D
Acq: 03 Oct 2025 16:34

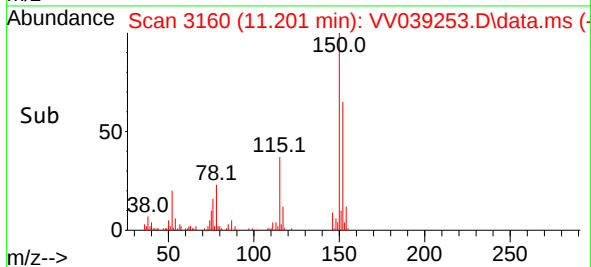
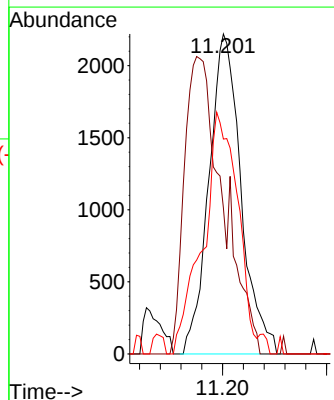
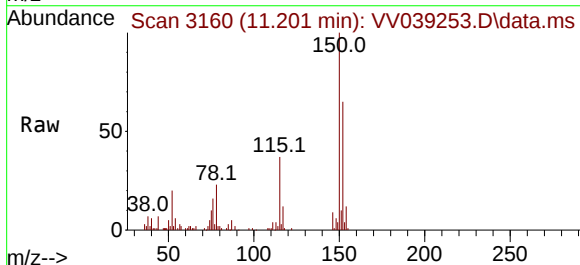
Instrument :
MSVOA_V
ClientSampleId :
MW-2

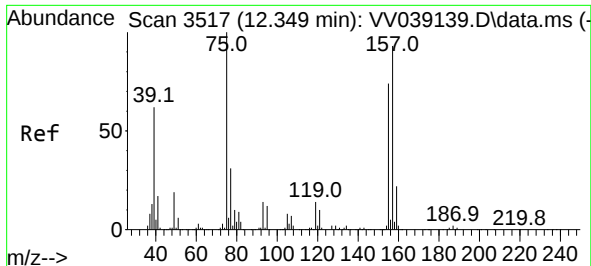
Tgt Ion: 75 Resp: 107860
Ion Ratio Lower Upper
75 100
53 0.6 72.5 108.7#
89 0.0 37.2 55.8#



#88
1,4-Dichlorobenzene
Concen: 0.436 ug/l
RT: 11.201 min Scan# 3160
Delta R.T. 0.006 min
Lab File: VV039253.D
Acq: 03 Oct 2025 16:34

Tgt Ion: 146 Resp: 4753
Ion Ratio Lower Upper
146 100
111 0.0 20.3 60.8#
148 82.2 31.4 94.2





#92

1,2-Dibromo-3-Chloropropane

Concen: Below Cal

RT: 12.336 min Scan# 31

Delta R.T. -0.013 min

Lab File: VV039253.D

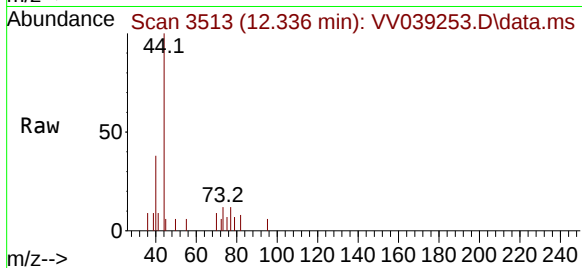
Acq: 03 Oct 2025 16:34

Instrument :

MSVOA_V

ClientSampleId :

MW-2



Tgt Ion:	75	Resp:	45
Ion	Ratio	Lower	Upper
75	100		
155	0.0	38.6	115.8#
157	0.0	49.5	148.3#

