

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092425\
 Data File : VV039161.D
 Acq On : 24 Sep 2025 18:30
 Operator : SY/MD
 Sample : Q3164-02
 Misc : 5.0mL/MSVOA_V/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 DA-2

Quant Time: Sep 25 08:21:49 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)

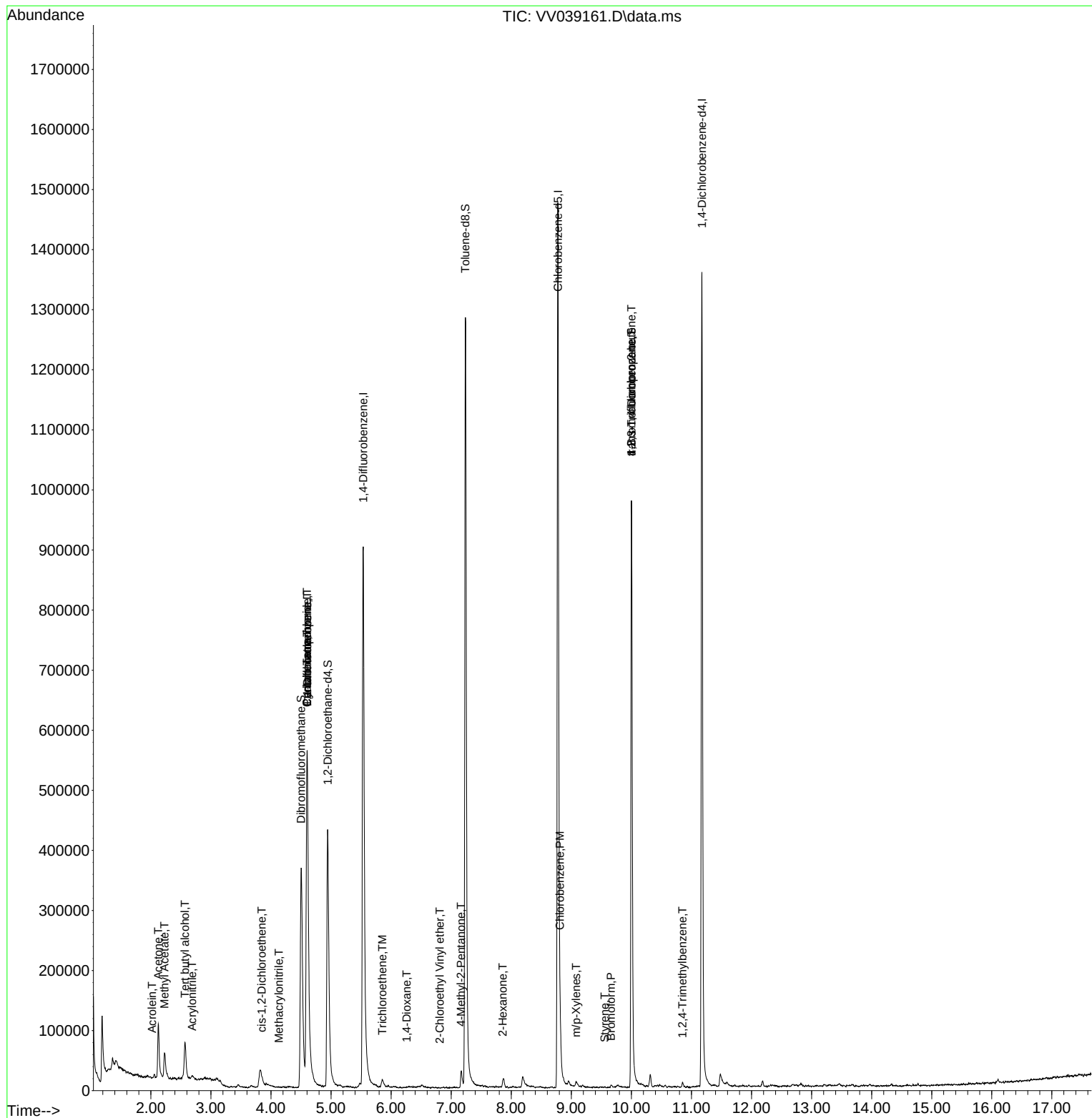
Internal Standards						
1) Pentafluorobenzene	4.603	168	478730	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	5.535	114	883874	50.000	ug/l	0.00
63) Chlorobenzene-d5	8.776	117	821619	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.175	152	362379	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.944	65	375112	54.139	ug/l	0.00
Spiked Amount 50.000	Range 81 - 118		Recovery = 108.280%			
35) Dibromofluoromethane	4.503	113	311942	43.901	ug/l	0.00
Spiked Amount 50.000	Range 80 - 119		Recovery = 87.800%			
50) Toluene-d8	7.236	98	945343	45.298	ug/l	0.00
Spiked Amount 50.000	Range 89 - 112		Recovery = 90.600%			
62) 4-Bromofluorobenzene	10.001	95	341312	39.728	ug/l	0.00
Spiked Amount 50.000	Range 85 - 114		Recovery = 79.460%#			
Target Compounds						Qvalue
6) Chloroethane	1.686	64	879	Below Cal	#	44
11) Tert butyl alcohol	2.567	59	46602	31.823	ug/l #	82
13) Acrolein	2.018	56	1042	4.101	ug/l #	47
15) Acrylonitrile	2.686	53	1810	0.386	ug/l #	68
16) Acetone	2.124	43	113854	21.152	ug/l	98
18) Methyl Acetate	2.227	43	15360	1.496	ug/l #	53
20) Methylene Chloride	2.452	84	1054	Below Cal	#	76
27) cis-1,2-Dichloroethene	3.847	96	1951	0.230	ug/l #	1
31) Cyclohexane	4.600	56	10591	0.857	ug/l #	1
36) 1,1-Dichloropropene	4.603	75	41981	3.908	ug/l #	41
38) Carbon Tetrachloride	4.600	117	52594	4.006	ug/l #	16
41) Methacrylonitrile	4.133	41	97	1.926	ug/l #	1
44) Trichloroethene	5.854	130	4057	0.503	ug/l	96
49) 1,4-Dioxane	6.259	88	47	0.361	ug/l #	1
51) 4-Methyl-2-Pentanone	7.165	43	21019	1.798	ug/l	95
58) 2-Chloroethyl Vinyl ether	6.808	63	61	9.632	ug/l #	47
59) 2-Hexanone	7.857	43	427	2.370	ug/l	65
65) Chlorobenzene	8.808	112	61163	2.673	ug/l	100
68) m/p-Xylenes	9.082	106	2992	0.224	ug/l	96
70) Styrene	9.558	104	184	1.569	ug/l #	34
71) Bromoform	9.660	173	1835	0.284	ug/l #	99
76) 1,2,3-Trichloropropane	10.001	75	172087	20.857	ug/l #	56
81) trans-1,4-Dichloro-2-b...	10.001	75	172087	50.071	ug/l #	13
84) 1,2,4-Trimethylbenzene	10.850	105	4247	0.200	ug/l	94
92) 1,2-Dibromo-3-Chloropr...	12.342	75	131	Below Cal	#	5

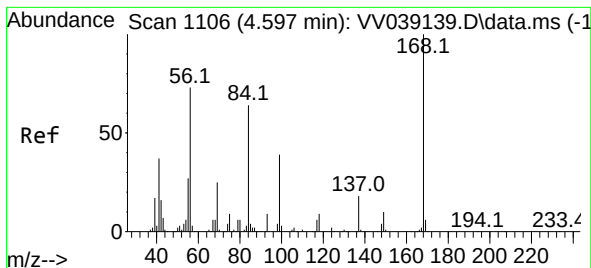
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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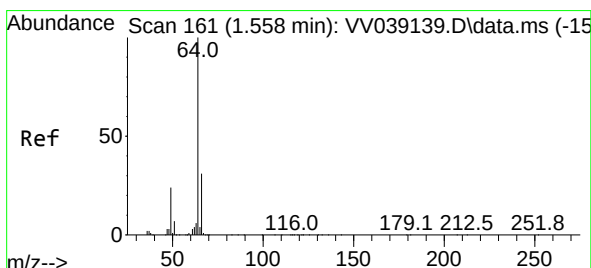
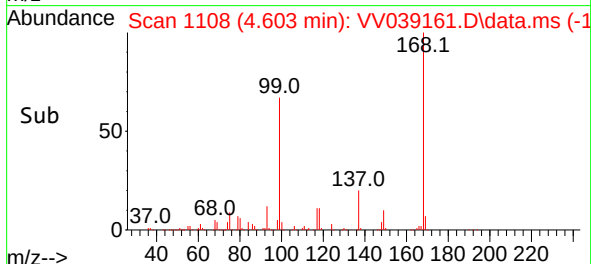
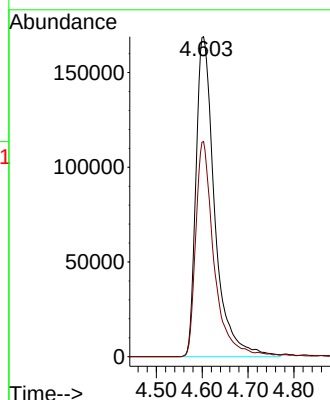
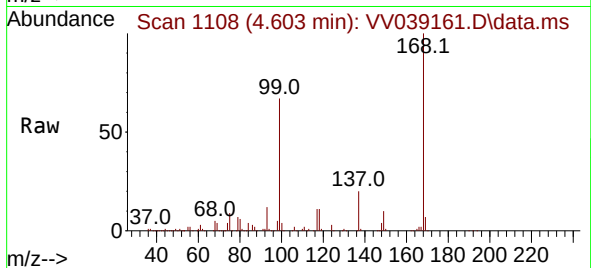




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 4.603 min Scan# 1106
Delta R.T. 0.006 min
Lab File: VV039161.D
Acq: 24 Sep 2025 18:30

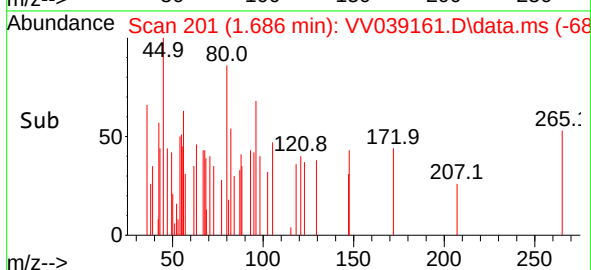
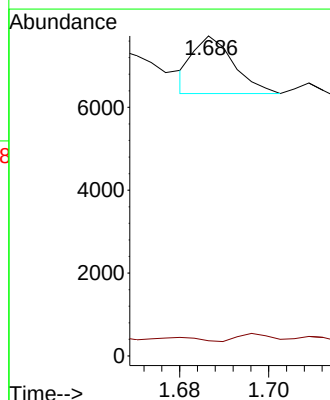
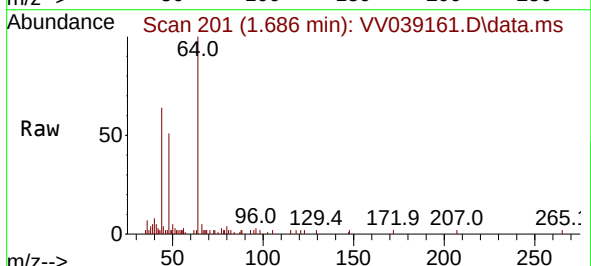
Instrument :
MSVOA_V
ClientSampleId :
DA-2

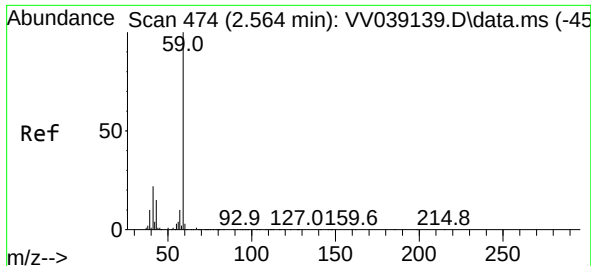
Tgt Ion:168 Resp: 478730
Ion Ratio Lower Upper
168 100
99 67.3 49.6 74.4



#6
Chloroethane
Concen: Below Cal
RT: 1.686 min Scan# 201
Delta R.T. 0.128 min
Lab File: VV039161.D
Acq: 24 Sep 2025 18:30

Tgt Ion: 64 Resp: 879
Ion Ratio Lower Upper
64 100
66 0.0 24.6 36.8#

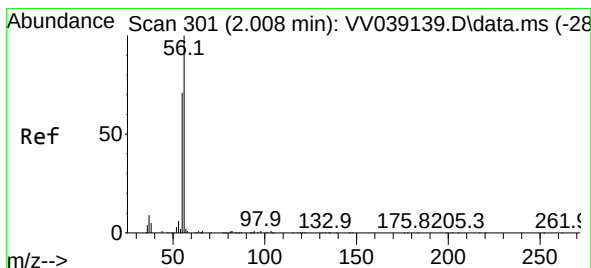
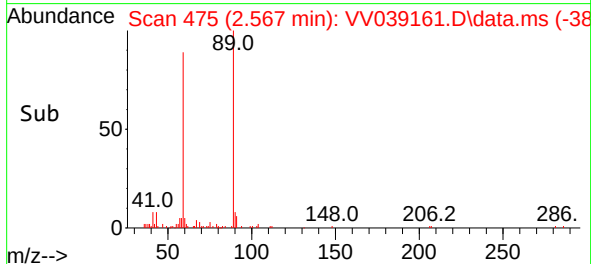
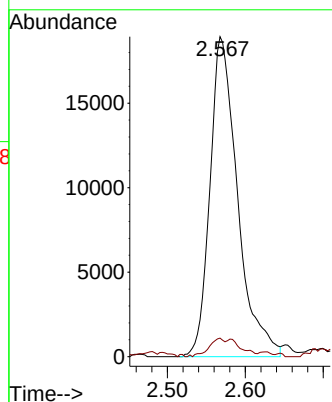
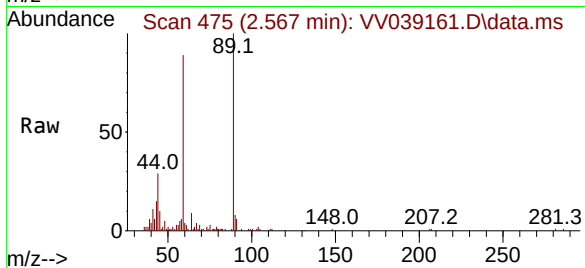




#11
Tert butyl alcohol
Concen: 31.823 ug/l
RT: 2.567 min Scan# 41
Delta R.T. 0.003 min
Lab File: VV039161.D
Acq: 24 Sep 2025 18:30

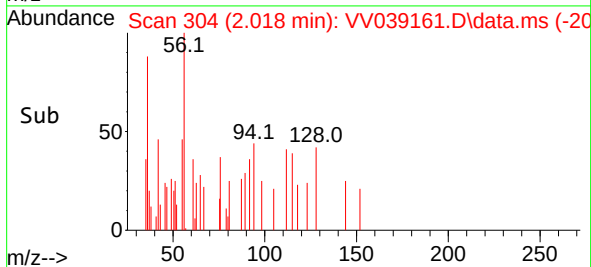
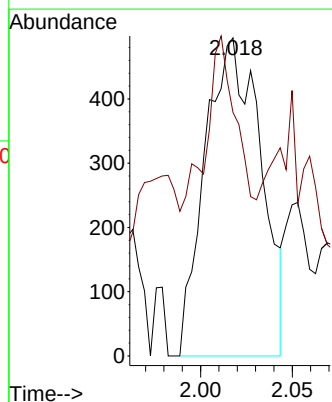
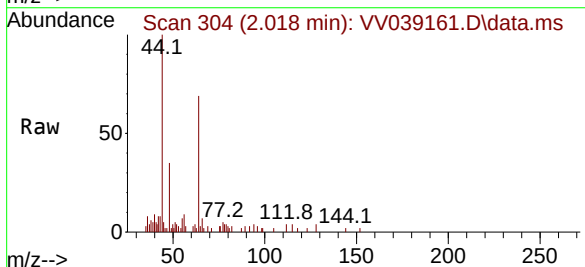
Instrument :
MSVOA_V
ClientSampleId :
DA-2

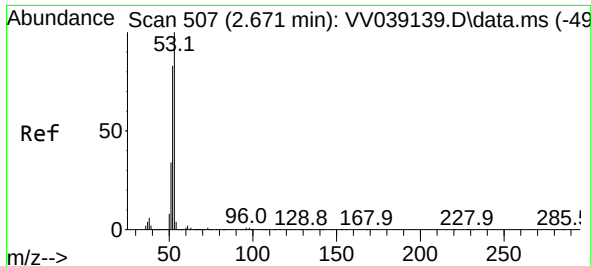
Tgt Ion: 59 Resp: 46602
Ion Ratio Lower Upper
59 100
57 3.3 7.8 11.8#



#13
Acrolein
Concen: 4.101 ug/l
RT: 2.018 min Scan# 304
Delta R.T. 0.009 min
Lab File: VV039161.D
Acq: 24 Sep 2025 18:30

Tgt Ion: 56 Resp: 1042
Ion Ratio Lower Upper
56 100
55 26.4 56.2 84.4#

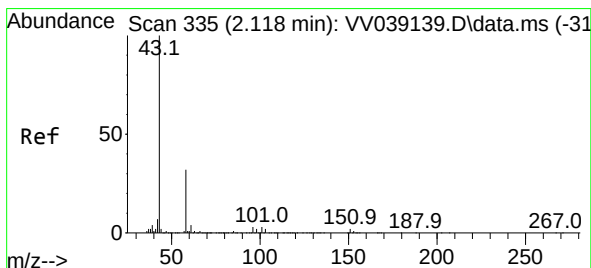
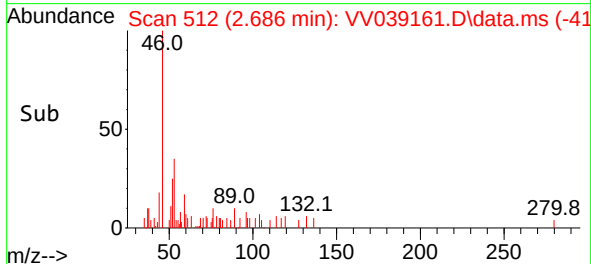
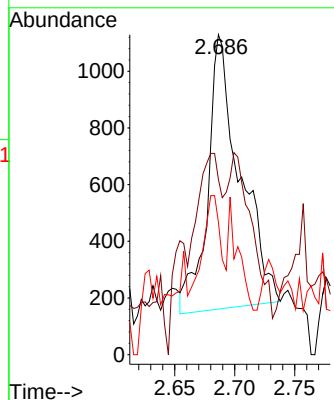
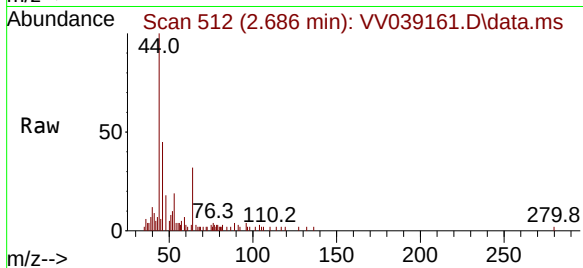




#15
Acrylonitrile
Concen: 0.386 ug/l
RT: 2.686 min Scan# 512
Delta R.T. 0.016 min
Lab File: VV039161.D
Acq: 24 Sep 2025 18:30

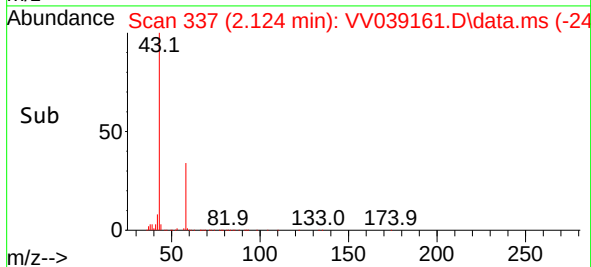
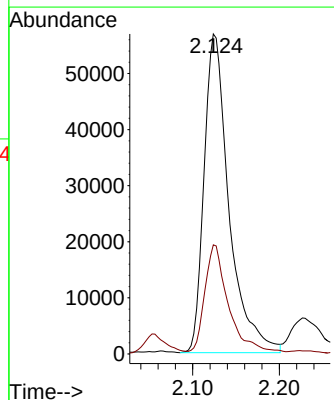
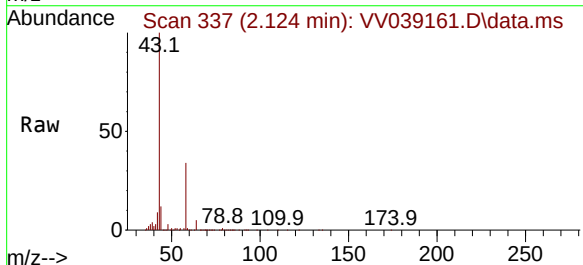
Instrument :
MSVOA_V
ClientSampleId :
DA-2

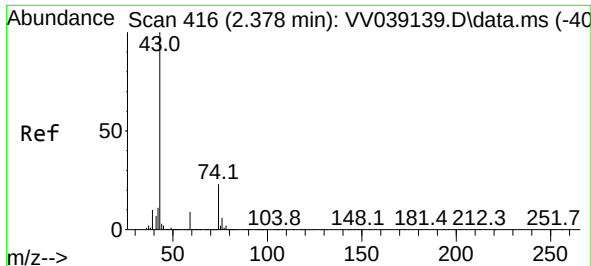
Tgt Ion: 53 Resp: 1810
Ion Ratio Lower Upper
53 100
52 51.0 66.1 99.1#
51 21.7 28.5 42.7#



#16
Acetone
Concen: 21.152 ug/l
RT: 2.124 min Scan# 337
Delta R.T. 0.006 min
Lab File: VV039161.D
Acq: 24 Sep 2025 18:30

Tgt Ion: 43 Resp: 113854
Ion Ratio Lower Upper
43 100
58 33.2 25.8 38.6

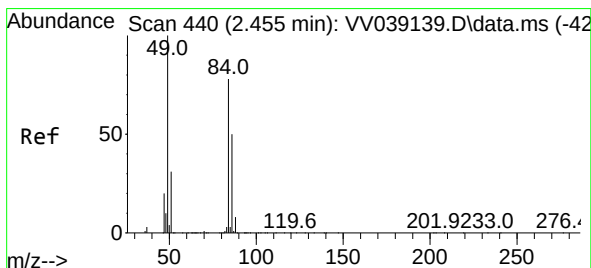
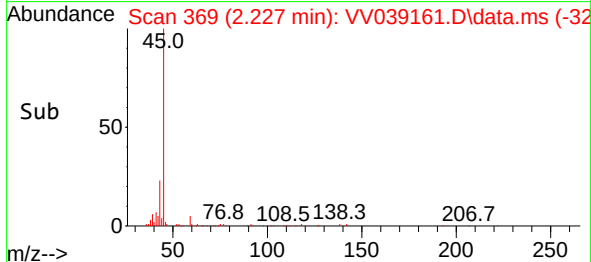
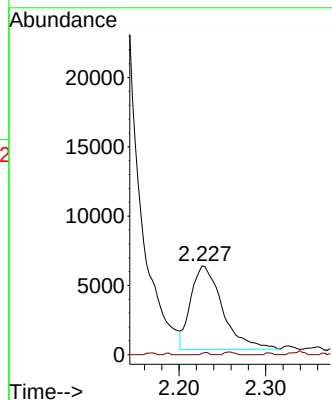
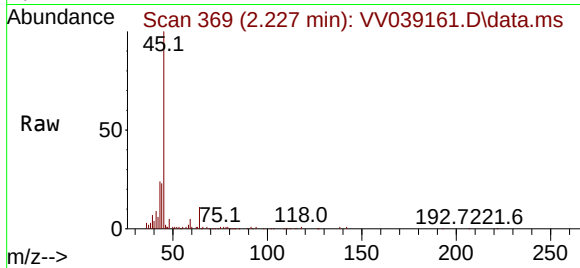




#18
Methyl Acetate
Concen: 1.496 ug/l
RT: 2.227 min Scan# 30
Delta R.T. -0.151 min
Lab File: VV039161.D
Acq: 24 Sep 2025 18:30

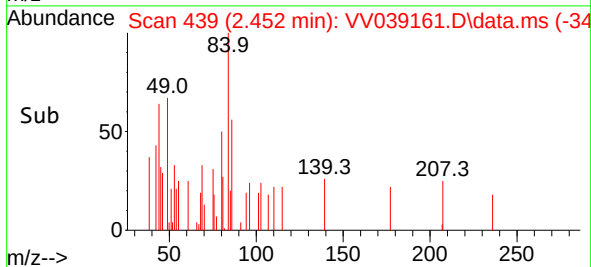
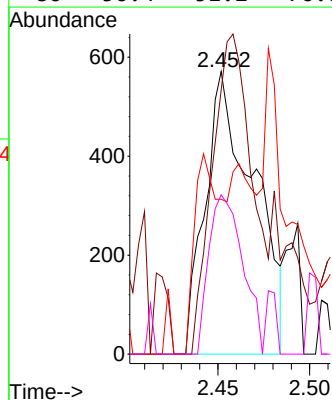
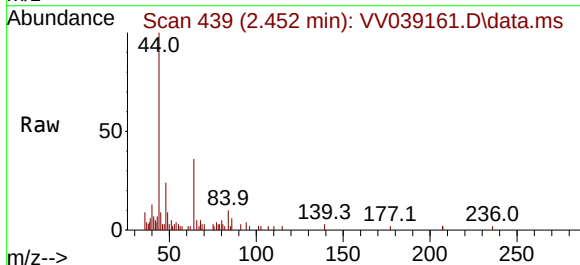
Instrument :
MSVOA_V
ClientSampleId :
DA-2

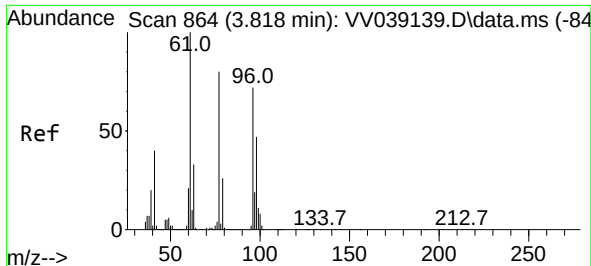
Tgt Ion: 43 Resp: 15360
Ion Ratio Lower Upper
43 100
74 0.5 18.6 27.8#



#20
Methylene Chloride
Concen: Below Cal
RT: 2.452 min Scan# 439
Delta R.T. -0.003 min
Lab File: VV039161.D
Acq: 24 Sep 2025 18:30

Tgt Ion: 84 Resp: 1054
Ion Ratio Lower Upper
84 100
49 93.5 102.8 154.2#
51 54.8 31.9 47.9#
86 56.4 51.2 76.8

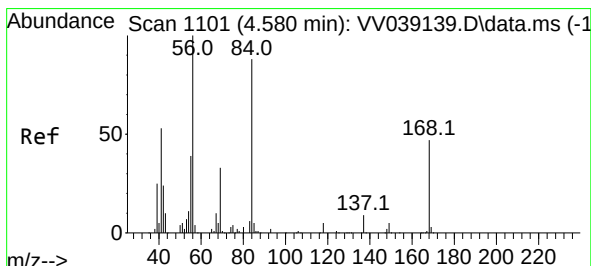
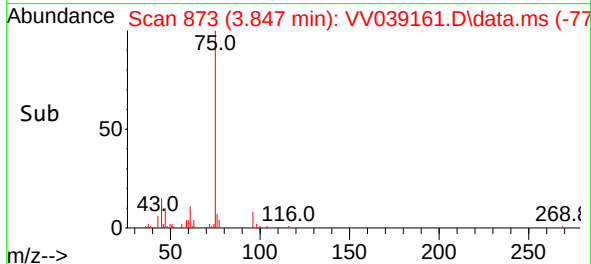
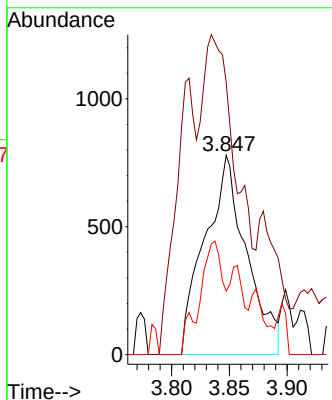
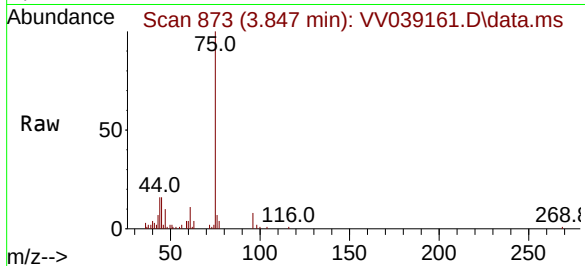




#27
 cis-1,2-Dichloroethene
 Concen: 0.230 ug/l
 RT: 3.847 min Scan# 81
 Delta R.T. 0.029 min
 Lab File: VV039161.D
 Acq: 24 Sep 2025 18:30

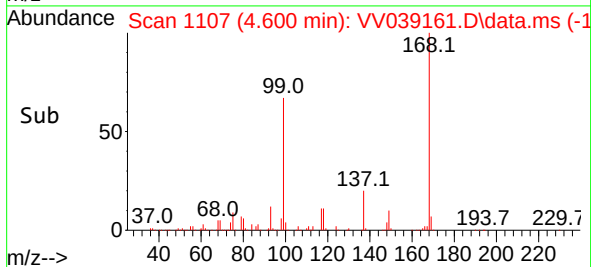
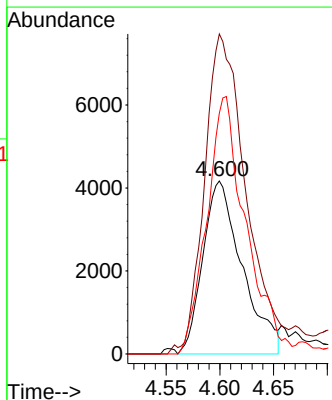
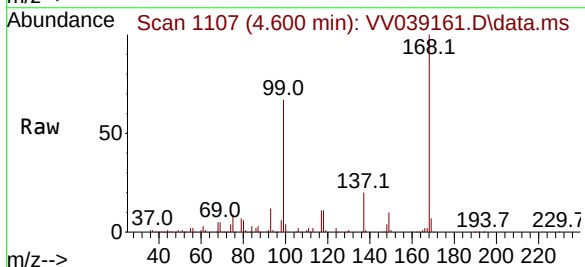
Instrument :
 MSVOA_V
 ClientSampleId :
 DA-2

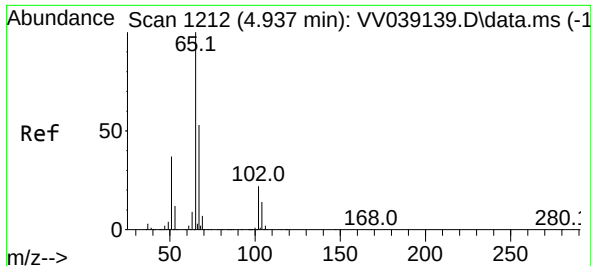
Tgt Ion:	96	Resp:	1951
Ion	Ratio	Lower	Upper
96	100		
61	0.0	0.0	286.4
98	15.7	0.0	126.6



#31
 Cyclohexane
 Concen: 0.857 ug/l
 RT: 4.600 min Scan# 1107
 Delta R.T. 0.019 min
 Lab File: VV039161.D
 Acq: 24 Sep 2025 18:30

Tgt Ion:	56	Resp:	10591
Ion	Ratio	Lower	Upper
56	100		
69	181.3	26.2	39.2#
84	139.2	70.3	105.5#





#33

1,2-Dichloroethane-d4

Concen: 54.139 ug/l

RT: 4.944 min Scan# 1

Delta R.T. 0.006 min

Lab File: VV039161.D

Acq: 24 Sep 2025 18:30

Instrument :

MSVOA_V

ClientSampleId :

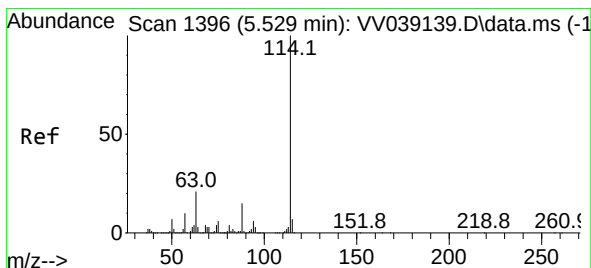
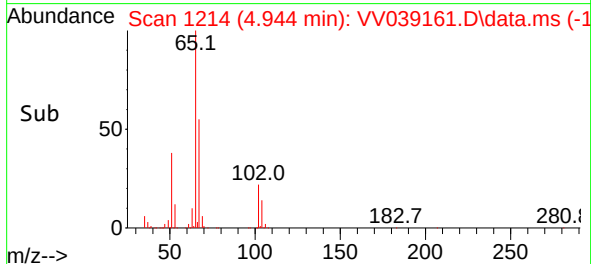
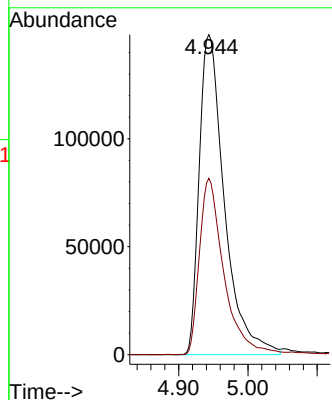
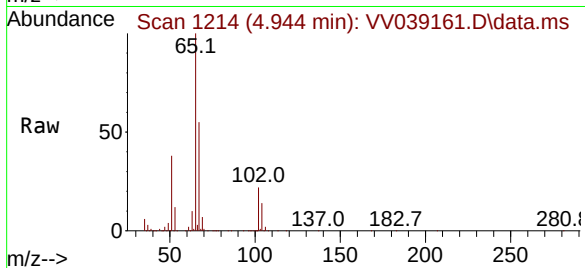
DA-2

Tgt Ion: 65 Resp: 375112

Ion Ratio Lower Upper

65 100

67 53.4 0.0 107.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.535 min Scan# 1398

Delta R.T. 0.006 min

Lab File: VV039161.D

Acq: 24 Sep 2025 18:30

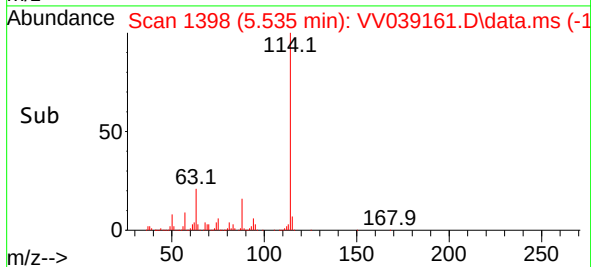
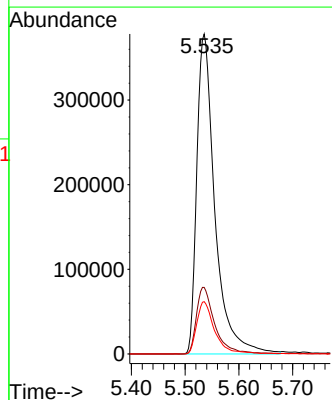
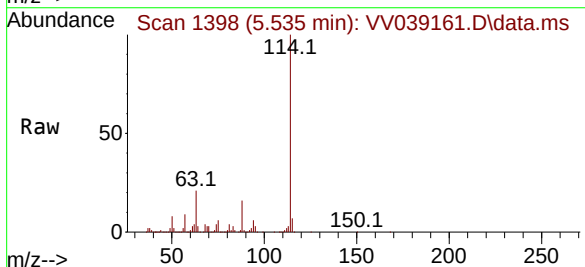
Tgt Ion: 114 Resp: 883874

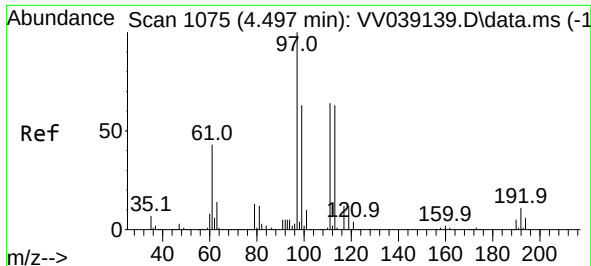
Ion Ratio Lower Upper

114 100

63 20.8 0.0 42.6

88 16.4 0.0 30.8

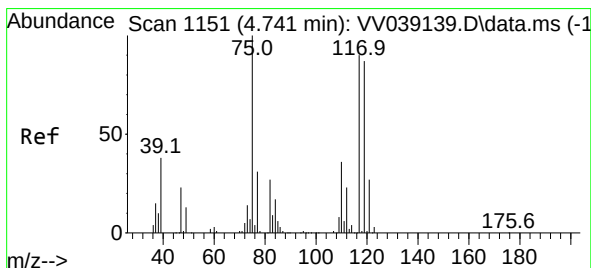
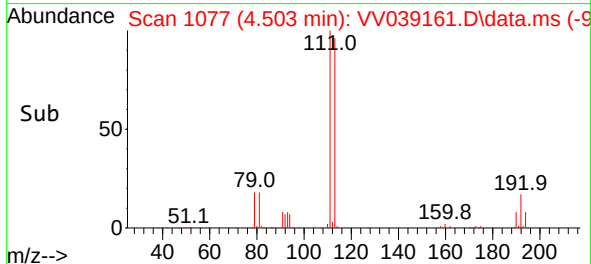
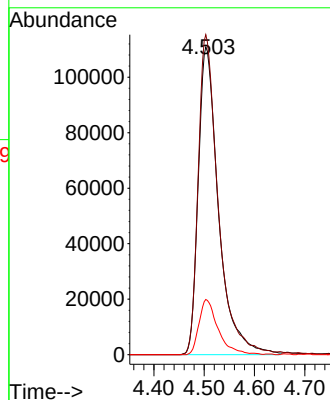
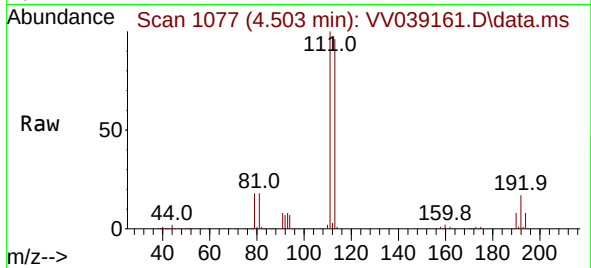




#35
Dibromofluoromethane
Concen: 43.901 ug/l
RT: 4.503 min Scan# 1108
Delta R.T. 0.006 min
Lab File: VV039161.D
Acq: 24 Sep 2025 18:30

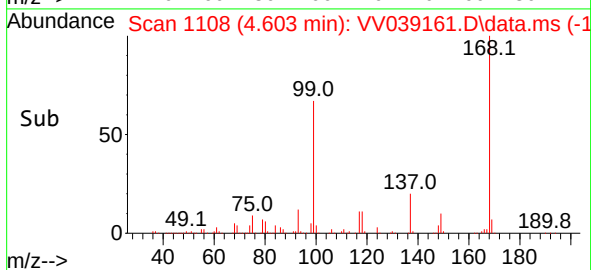
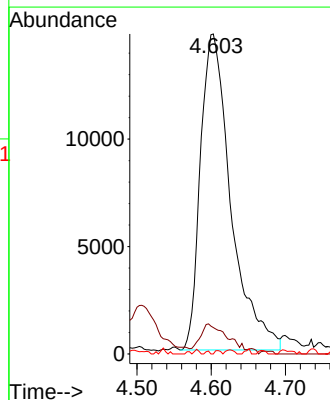
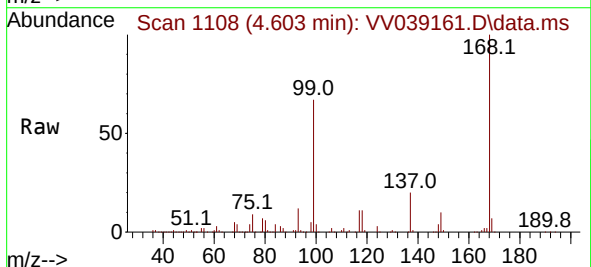
Instrument :
MSVOA_V
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DA-2

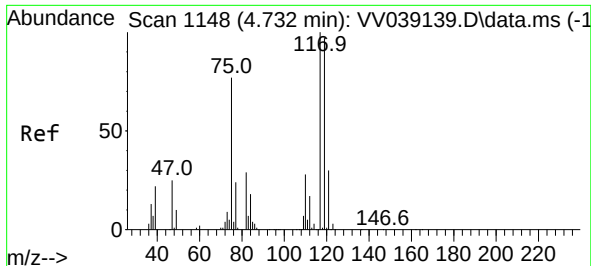
Tgt Ion:113 Resp: 311942
Ion Ratio Lower Upper
113 100
111 102.3 82.4 123.6
192 16.7 13.8 20.8



#36
1,1-Dichloropropene
Concen: 3.908 ug/l
RT: 4.603 min Scan# 1108
Delta R.T. -0.138 min
Lab File: VV039161.D
Acq: 24 Sep 2025 18:30

Tgt Ion: 75 Resp: 41981
Ion Ratio Lower Upper
75 100
110 0.0 18.1 54.1#
77 0.2 24.8 37.2#

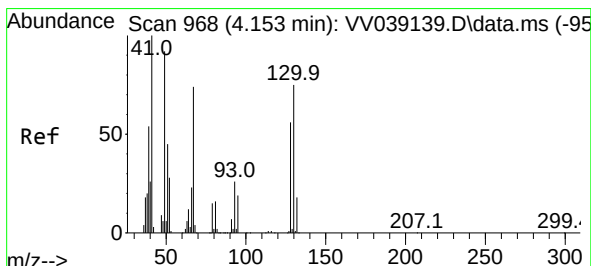
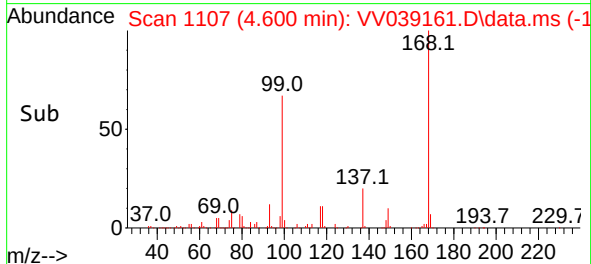
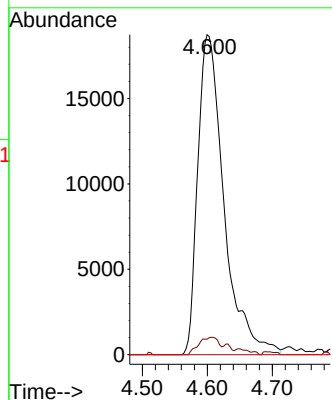
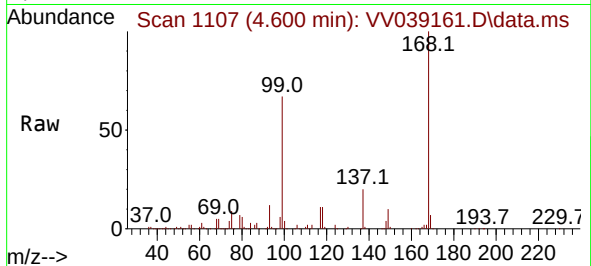




#38
Carbon Tetrachloride
Concen: 4.006 ug/l
RT: 4.600 min Scan# 1148
Delta R.T. -0.132 min
Lab File: VV039161.D
Acq: 24 Sep 2025 18:30

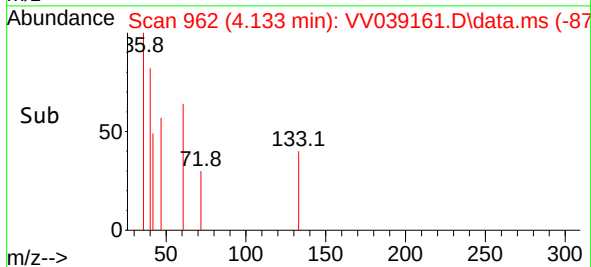
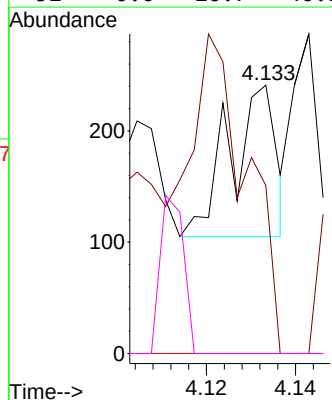
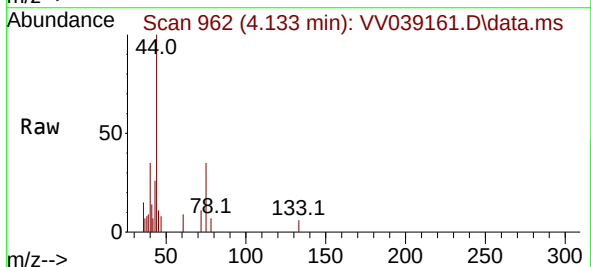
Instrument :
MSVOA_V
ClientSampleId :
DA-2

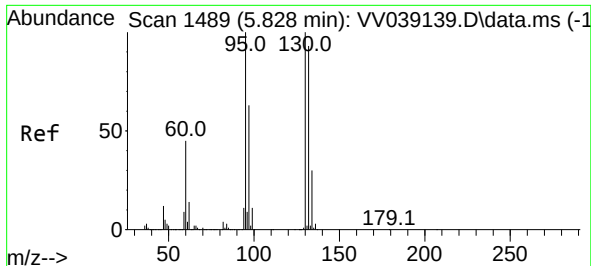
Tgt Ion:117 Resp: 52594
Ion Ratio Lower Upper
117 100
119 4.8 77.2 115.8#
121 0.0 24.2 36.2#



#41
Methacrylonitrile
Concen: 1.926 ug/l
RT: 4.133 min Scan# 962
Delta R.T. -0.020 min
Lab File: VV039161.D
Acq: 24 Sep 2025 18:30

Tgt Ion: 41 Resp: 97
Ion Ratio Lower Upper
41 100
39 270.1 42.2 63.2#
67 0.0 67.9 101.9#
52 0.0 26.7 40.1#





#44

Trichloroethene

Concen: 0.503 ug/l

RT: 5.854 min Scan# 1489

Delta R.T. 0.026 min

Lab File: VV039161.D

Acq: 24 Sep 2025 18:30

Instrument :

MSVOA_V

ClientSampleId :

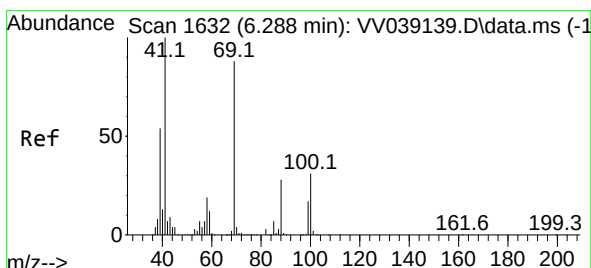
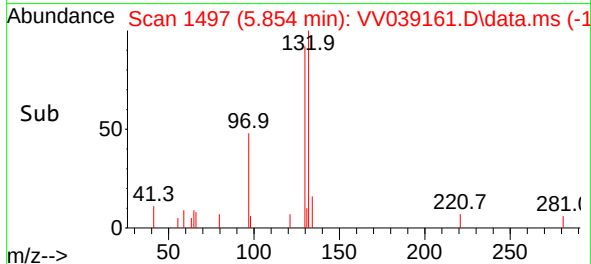
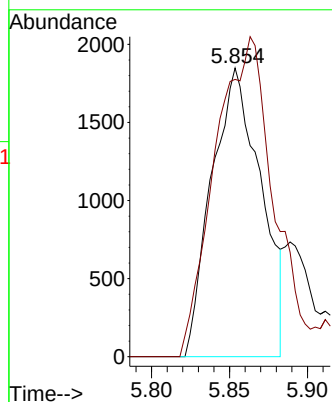
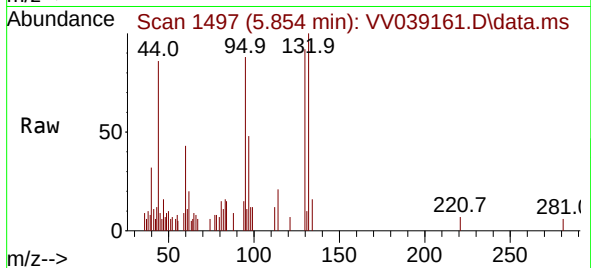
DA-2

Tgt Ion:130 Resp: 4057

Ion Ratio Lower Upper

130 100

95 96.1 0.0 199.2



#49

1,4-Dioxane

Concen: 0.361 ug/l

RT: 6.259 min Scan# 1623

Delta R.T. -0.029 min

Lab File: VV039161.D

Acq: 24 Sep 2025 18:30

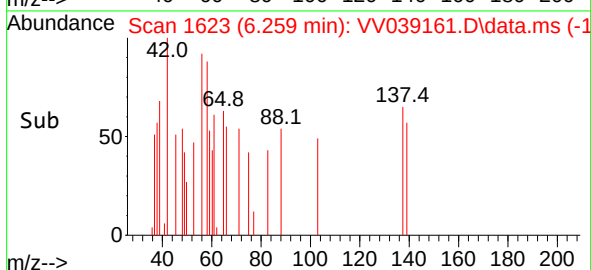
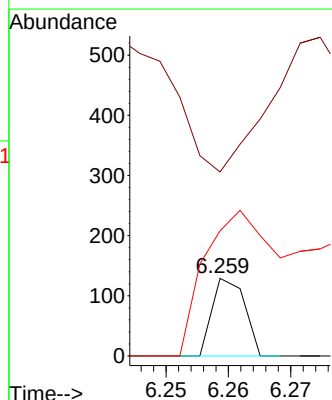
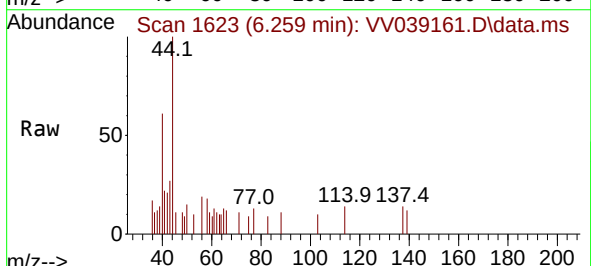
Tgt Ion: 88 Resp: 47

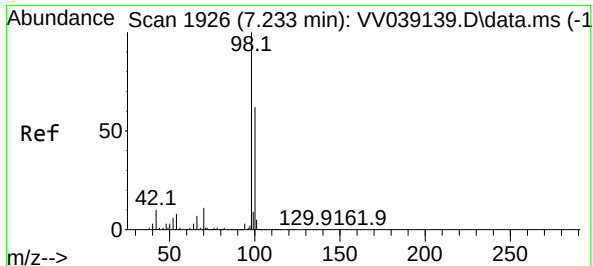
Ion Ratio Lower Upper

88 100

43 0.0 25.1 37.7#

58 395.7 53.6 80.4#

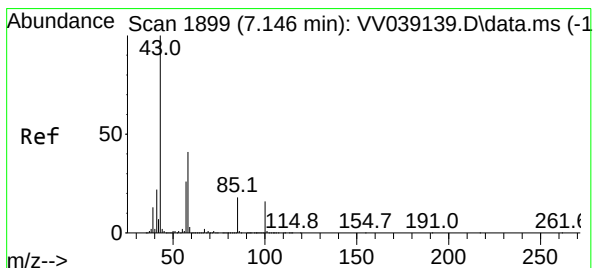
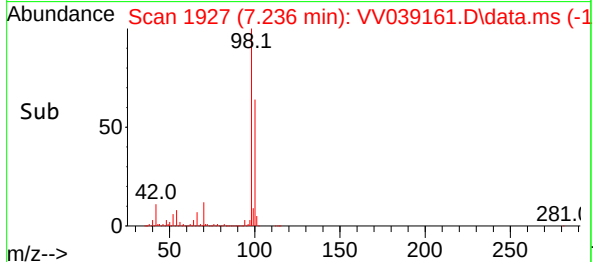
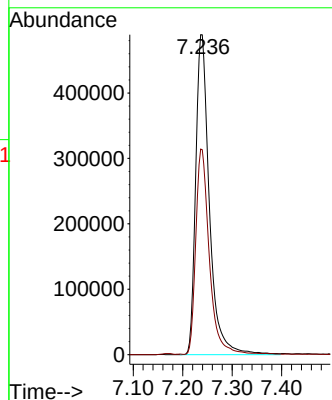
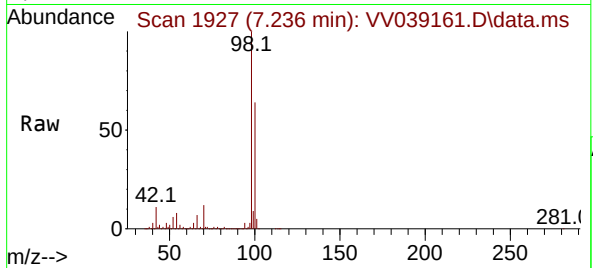




#50
Toluene-d8
Concen: 45.298 ug/l
RT: 7.236 min Scan# 1926
Delta R.T. 0.003 min
Lab File: VV039161.D
Acq: 24 Sep 2025 18:30

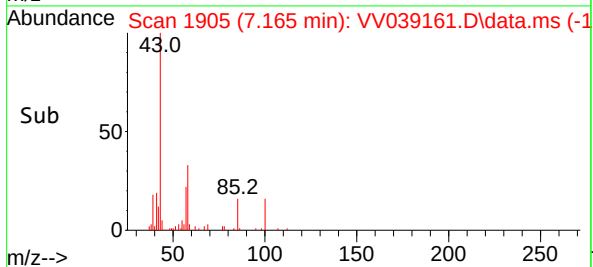
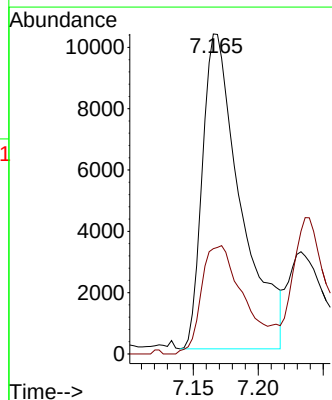
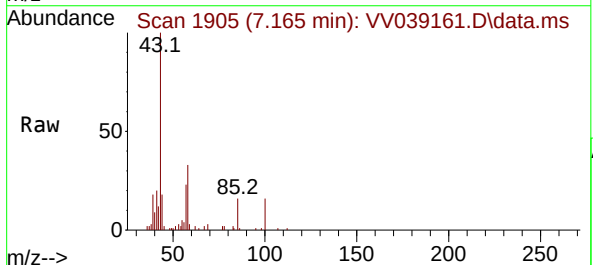
Instrument :
MSVOA_V
ClientSampleId :
DA-2

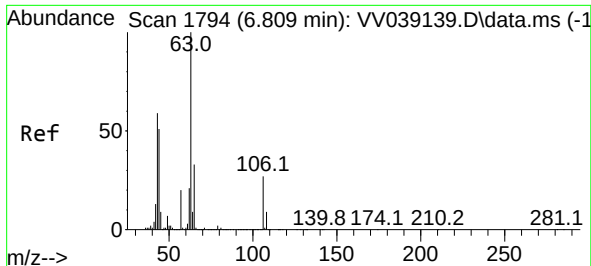
Tgt Ion: 98 Resp: 945343
Ion Ratio Lower Upper
98 100
100 63.2 52.2 78.2



#51
4-Methyl-2-Pentanone
Concen: 1.798 ug/l
RT: 7.165 min Scan# 1905
Delta R.T. 0.019 min
Lab File: VV039161.D
Acq: 24 Sep 2025 18:30

Tgt Ion: 43 Resp: 21019
Ion Ratio Lower Upper
43 100
58 37.3 32.3 48.5

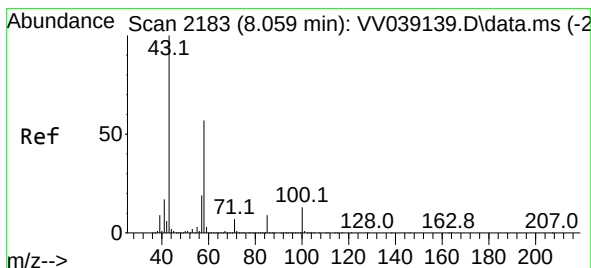
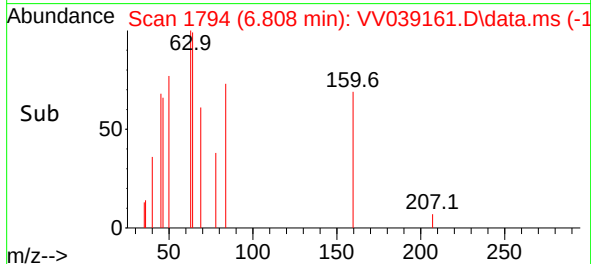
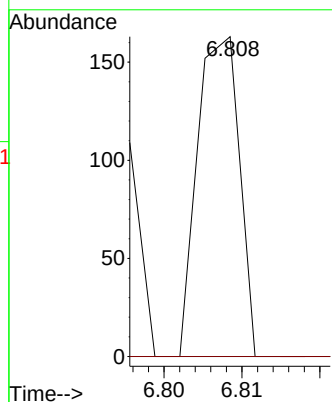
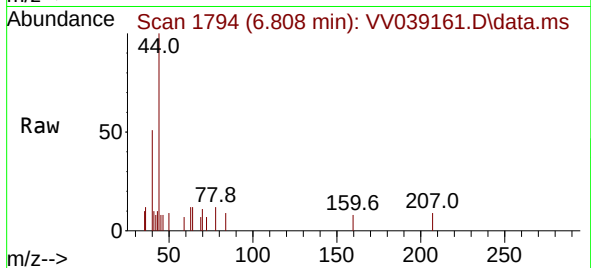




#58
2-Chloroethyl Vinyl ether
Concen: 9.632 ug/l
RT: 6.808 min Scan# 11
Delta R.T. -0.001 min
Lab File: VV039161.D
Acq: 24 Sep 2025 18:30

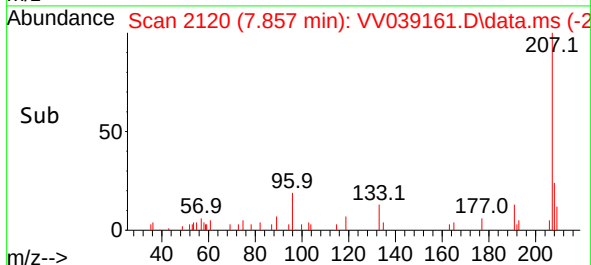
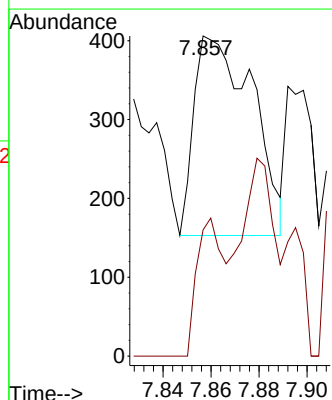
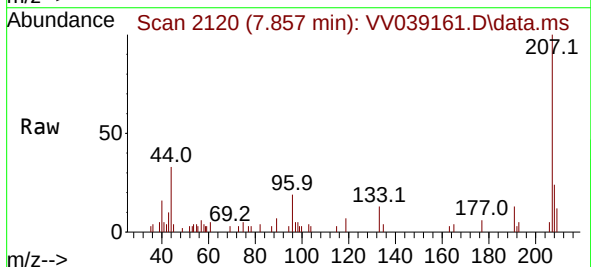
Instrument :
MSVOA_V
ClientSampleId :
DA-2

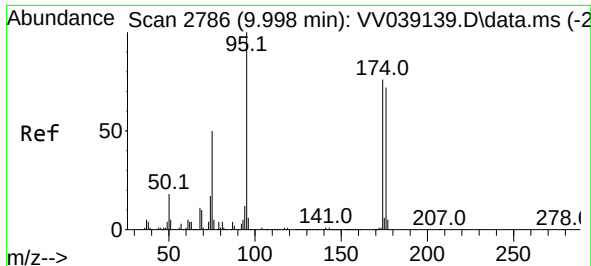
Tgt Ion: 63 Resp: 61
Ion Ratio Lower Upper
63 100
106 0.0 22.1 33.1#



#59
2-Hexanone
Concen: 2.370 ug/l
RT: 7.857 min Scan# 2120
Delta R.T. -0.202 min
Lab File: VV039161.D
Acq: 24 Sep 2025 18:30

Tgt Ion: 43 Resp: 427
Ion Ratio Lower Upper
43 100
58 31.1 28.3 85.0

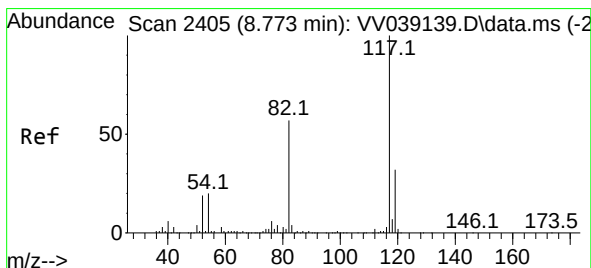
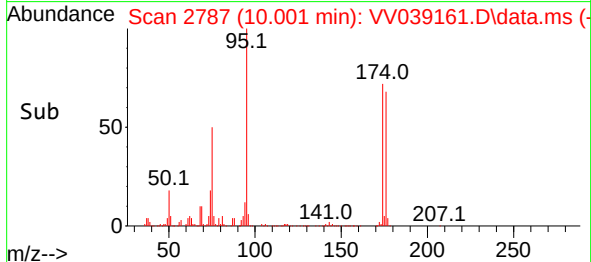
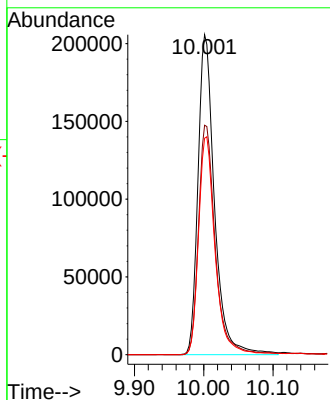
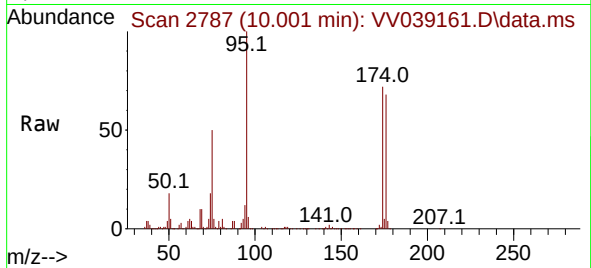




#62
4-Bromofluorobenzene
Concen: 39.728 ug/l
RT: 10.001 min Scan# 21
Delta R.T. 0.003 min
Lab File: VV039161.D
Acq: 24 Sep 2025 18:30

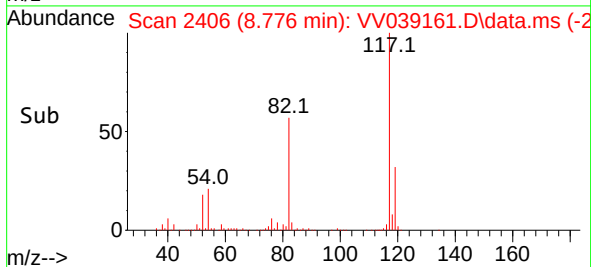
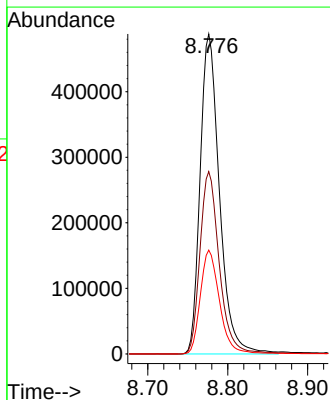
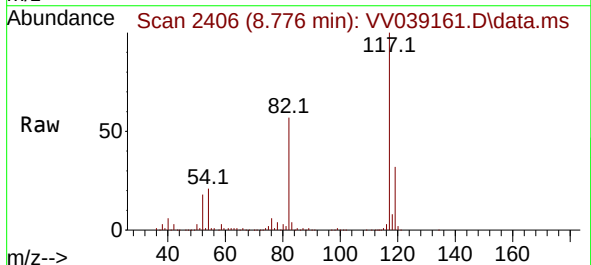
Instrument :
MSVOA_V
ClientSampleId :
DA-2

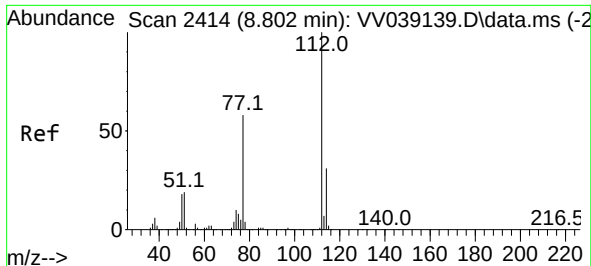
Tgt Ion: 95 Resp: 341312
Ion Ratio Lower Upper
95 100
174 72.2 0.0 150.4
176 68.5 0.0 144.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 8.776 min Scan# 2406
Delta R.T. 0.003 min
Lab File: VV039161.D
Acq: 24 Sep 2025 18:30

Tgt Ion: 117 Resp: 821619
Ion Ratio Lower Upper
117 100
82 57.0 45.4 68.2
119 32.4 25.6 38.4

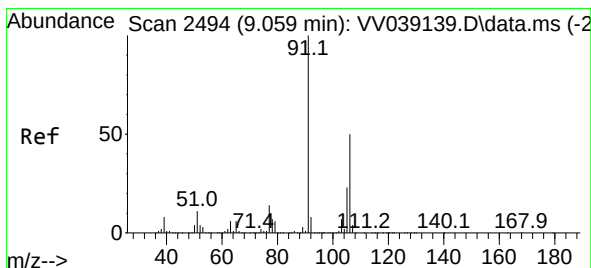
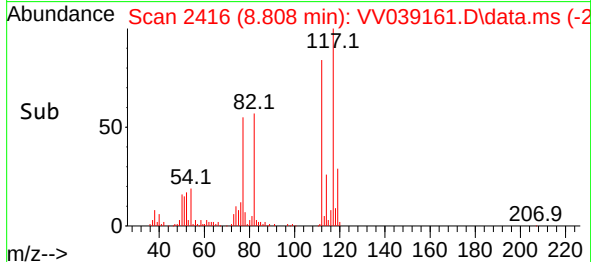
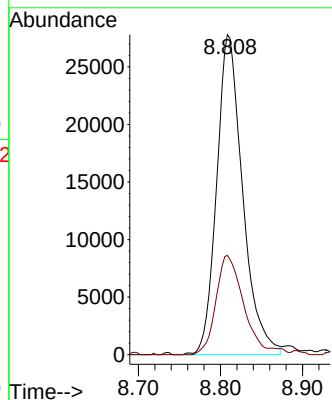
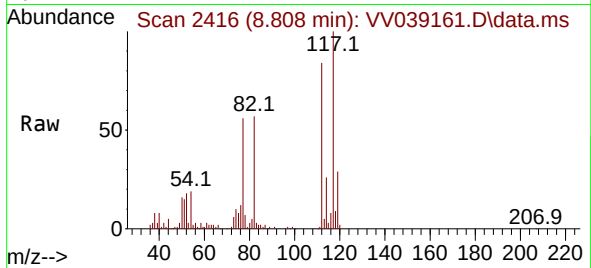




#65
Chlorobenzene
Concen: 2.673 ug/l
RT: 8.808 min Scan# 2414
Delta R.T. 0.006 min
Lab File: VV039161.D
Acq: 24 Sep 2025 18:30

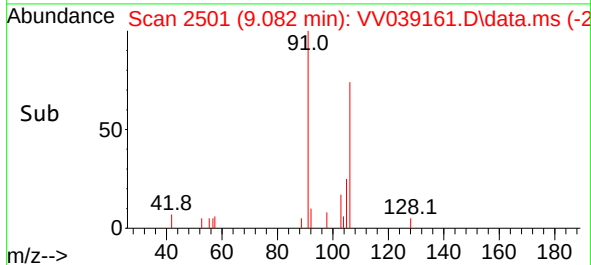
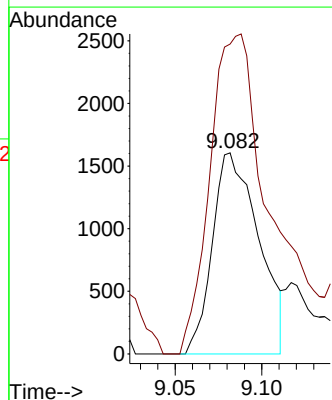
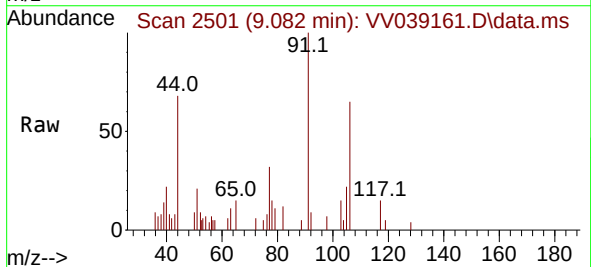
Instrument :
MSVOA_V
ClientSampleId :
DA-2

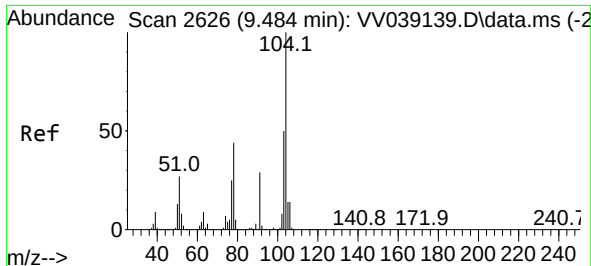
Tgt Ion:112 Resp: 61163
Ion Ratio Lower Upper
112 100
114 31.0 24.6 37.0



#68
m/p-Xylenes
Concen: 0.224 ug/l
RT: 9.082 min Scan# 2501
Delta R.T. 0.023 min
Lab File: VV039161.D
Acq: 24 Sep 2025 18:30

Tgt Ion:106 Resp: 2992
Ion Ratio Lower Upper
106 100
91 209.4 162.5 243.7





#70

Styrene

Concen: 1.569 ug/l

RT: 9.558 min Scan# 2649

Delta R.T. 0.074 min

Lab File: VV039161.D

Acq: 24 Sep 2025 18:30

Instrument :

MSVOA_V

ClientSampleId :

DA-2

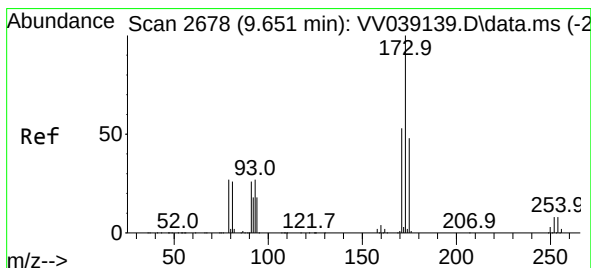
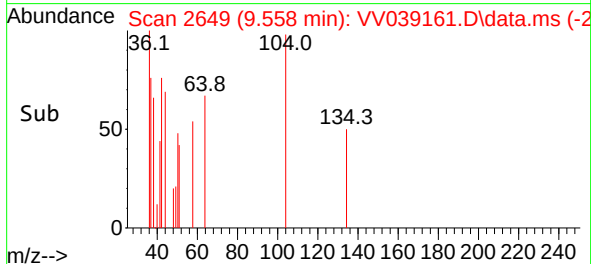
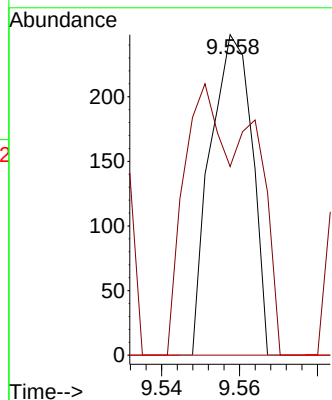
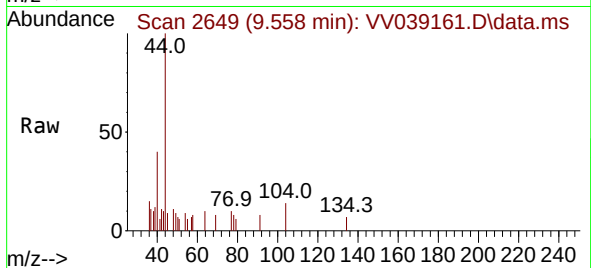
Tgt Ion:104 Resp: 184

Ion Ratio Lower Upper

104 100

78 87.5 39.8 59.6#

103 0.0 43.4 65.2#



#71

Bromoform

Concen: 0.284 ug/l

RT: 9.660 min Scan# 2681

Delta R.T. 0.009 min

Lab File: VV039161.D

Acq: 24 Sep 2025 18:30

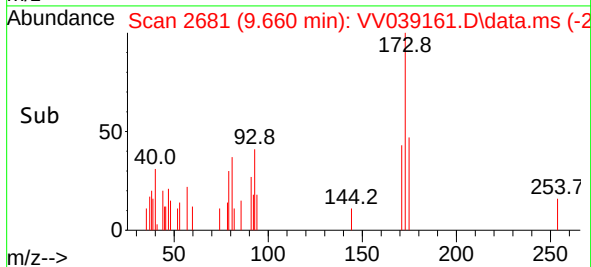
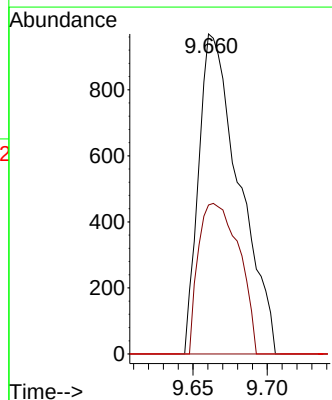
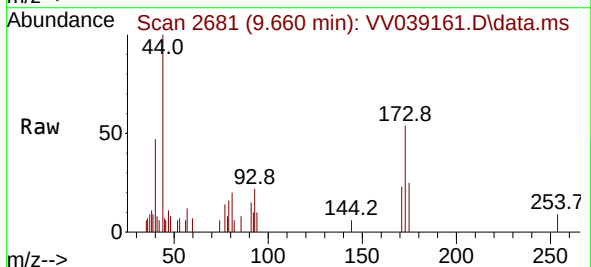
Tgt Ion:173 Resp: 1835

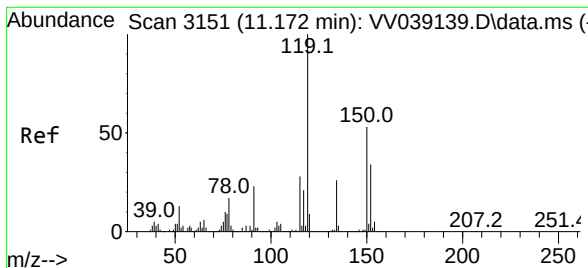
Ion Ratio Lower Upper

173 100

175 47.2 23.9 71.7

254 0.0 0.1 0.1#





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 11.175 min Scan# 3151

Delta R.T. 0.003 min

Lab File: VV039161.D

Acq: 24 Sep 2025 18:30

Instrument :

MSVOA_V

ClientSampleId :

DA-2

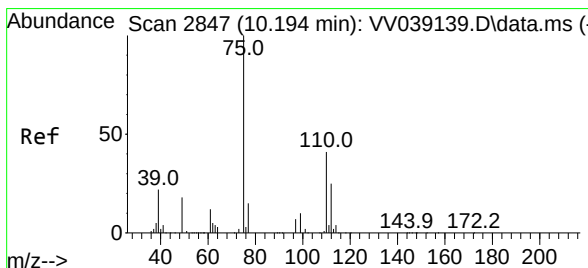
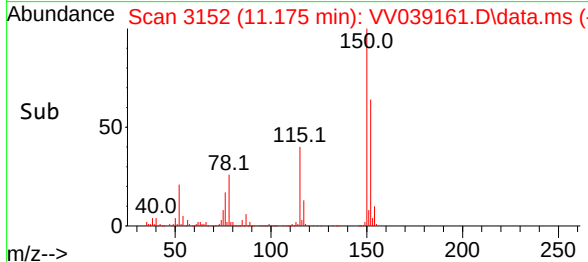
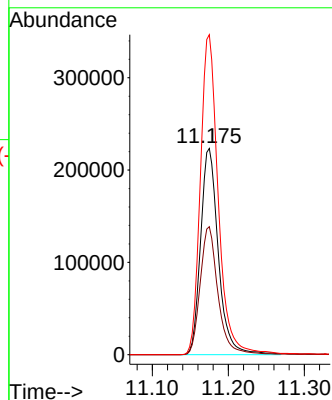
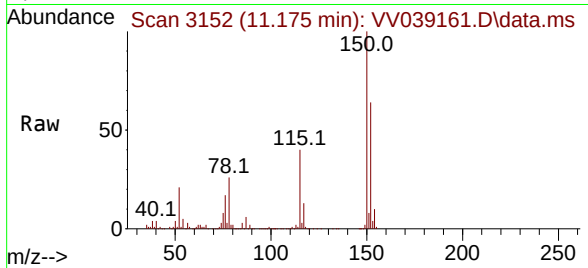
Tgt Ion:152 Resp: 362379

Ion Ratio Lower Upper

152 100

115 62.6 44.8 134.4

150 156.6 0.0 353.8



#76

1,2,3-Trichloropropane

Concen: 20.857 ug/l

RT: 10.001 min Scan# 2787

Delta R.T. -0.193 min

Lab File: VV039161.D

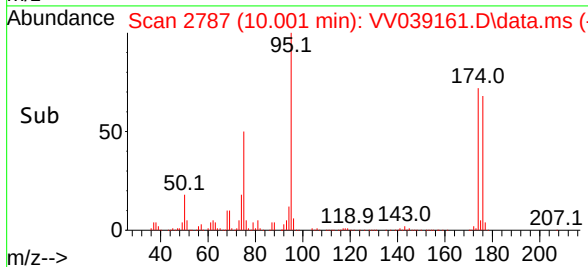
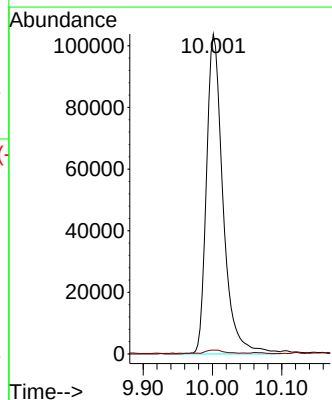
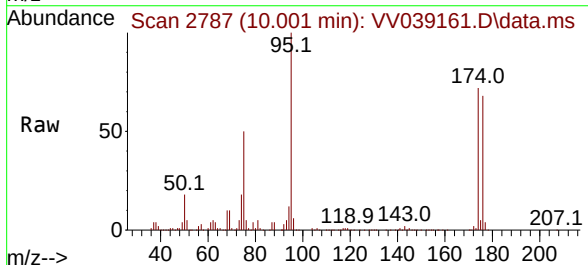
Acq: 24 Sep 2025 18:30

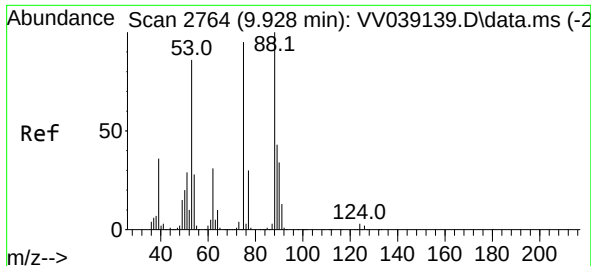
Tgt Ion: 75 Resp: 172087

Ion Ratio Lower Upper

75 100

77 1.2 11.3 33.8#

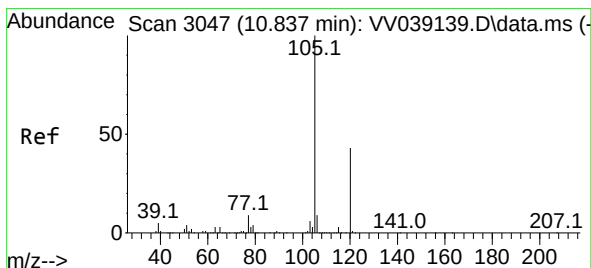
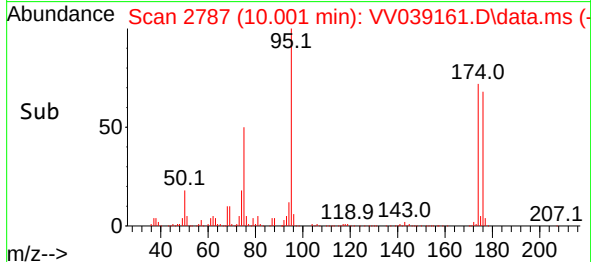
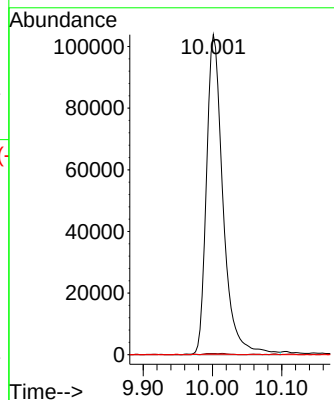
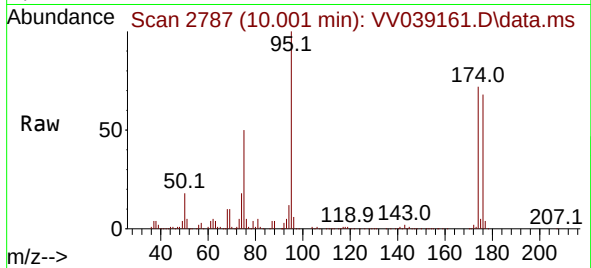




#81
trans-1,4-Dichloro-2-butene
Concen: 50.071 ug/l
RT: 10.001 min Scan# 21
Delta R.T. 0.074 min
Lab File: VV039161.D
Acq: 24 Sep 2025 18:30

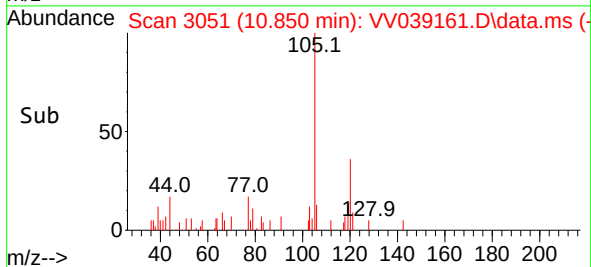
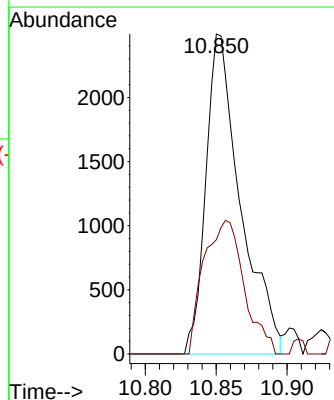
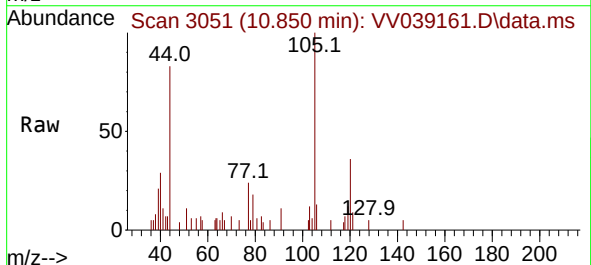
Instrument :
MSVOA_V
ClientSampleId :
DA-2

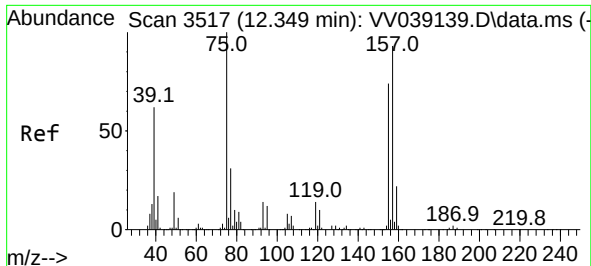
Tgt Ion: 75 Resp: 172087
Ion Ratio Lower Upper
75 100
53 0.3 72.5 108.7#
89 0.0 37.2 55.8#



#84
1,2,4-Trimethylbenzene
Concen: 0.200 ug/l
RT: 10.850 min Scan# 3051
Delta R.T. 0.013 min
Lab File: VV039161.D
Acq: 24 Sep 2025 18:30

Tgt Ion: 105 Resp: 4247
Ion Ratio Lower Upper
105 100
120 48.5 22.4 67.2





#92

1,2-Dibromo-3-Chloropropane

Concen: Below Cal

RT: 12.342 min Scan# 31

Delta R.T. -0.007 min

Lab File: VV039161.D

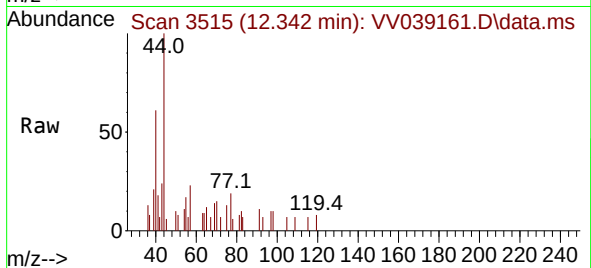
Acq: 24 Sep 2025 18:30

Instrument :

MSVOA_V

ClientSampleId :

DA-2



Tgt Ion:	75	Resp:	131
Ion	Ratio	Lower	Upper
75	100		
155	0.0	38.6	115.8#
157	0.0	49.5	148.3#

