

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092525\
 Data File : VV039189.D
 Acq On : 25 Sep 2025 18:10
 Operator : SY/MD
 Sample : Q3195-25
 Misc : 5.0mL/MSVOA_V/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 FB-01-091925

Quant Time: Sep 26 01:35:54 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)

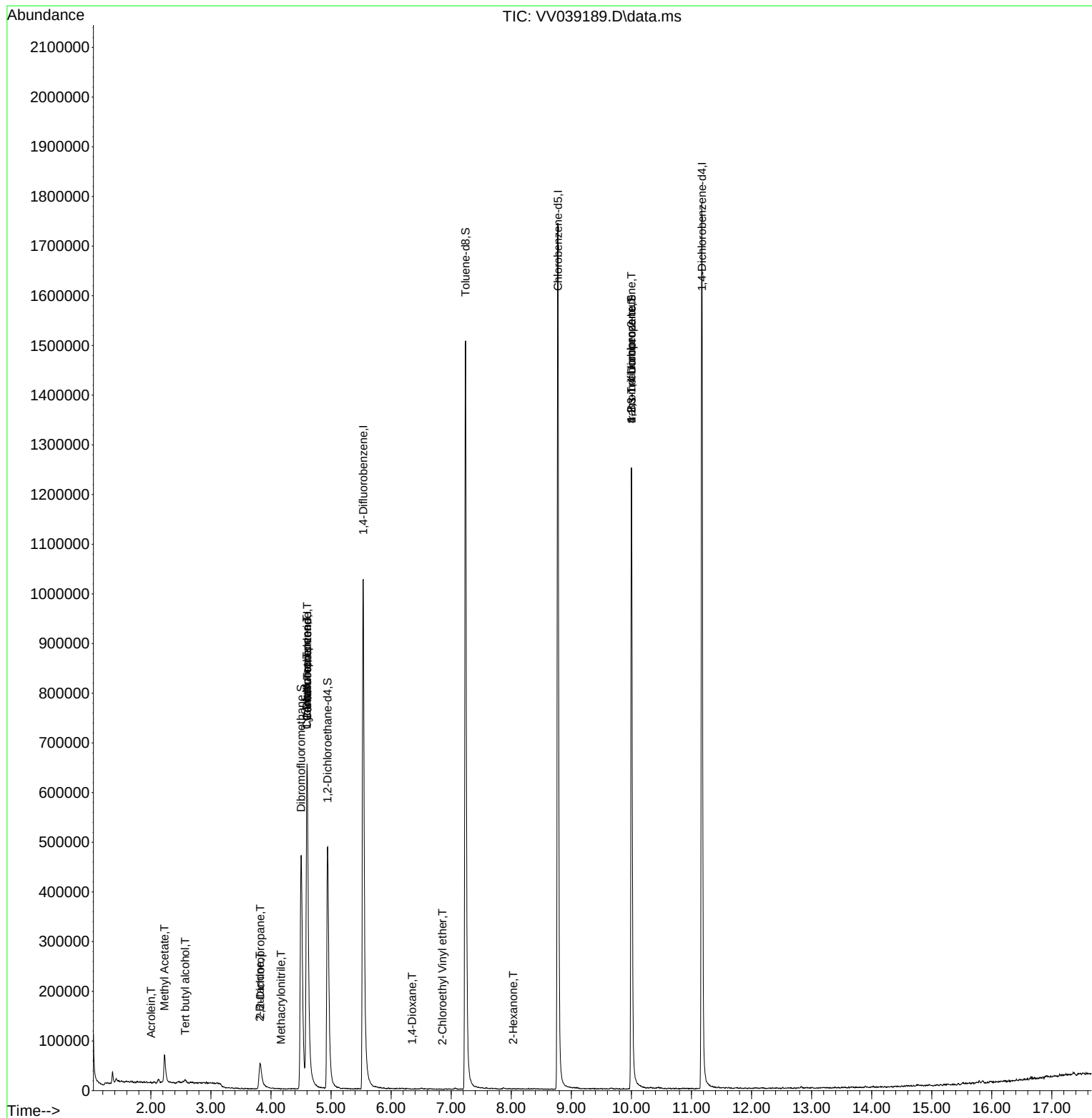
Internal Standards						
1) Pentafluorobenzene	4.603	168	562300	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	5.535	114	1002078	50.000	ug/l	0.00
63) Chlorobenzene-d5	8.776	117	977857	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.175	152	478832	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.941	65	439118	53.958	ug/l	0.00
Spiked Amount 50.000	Range 81 - 118		Recovery = 107.920%			
35) Dibromofluoromethane	4.500	113	402765	49.996	ug/l	0.00
Spiked Amount 50.000	Range 80 - 119		Recovery = 100.000%			
50) Toluene-d8	7.240	98	1091605	46.137	ug/l	0.00
Spiked Amount 50.000	Range 89 - 112		Recovery = 92.280%			
62) 4-Bromofluorobenzene	10.001	95	438151	44.983	ug/l	0.00
Spiked Amount 50.000	Range 85 - 114		Recovery = 89.960%			
Target Compounds						Qvalue
6) Chloroethane	1.606	64	410	Below Cal		89
11) Tert butyl alcohol	2.571	59	3027	1.760 ug/l #		89
13) Acrolein	2.005	56	358	1.199 ug/l #		47
16) Acetone	2.127	43	9216	Below Cal #		84
18) Methyl Acetate	2.227	43	15936	1.322 ug/l #		54
20) Methylene Chloride	2.455	84	1490	Below Cal #		72
25) 2-Butanone	3.812	43	1889	0.290 ug/l #		74
26) 2,2-Dichloropropane	3.822	77	4187	0.267 ug/l #		52
31) Cyclohexane	4.597	56	12376	0.853 ug/l #		1
36) 1,1-Dichloropropene	4.597	75	47741	3.920 ug/l #		47
38) Carbon Tetrachloride	4.603	117	59811	4.018 ug/l #		16
41) Methacrylonitrile	4.169	41	41	1.916 ug/l #		1
49) 1,4-Dioxane	6.349	88	77	0.522 ug/l #		40
58) 2-Chloroethyl Vinyl ether	6.854	63	56	9.631 ug/l #		47
59) 2-Hexanone	8.034	43	154	2.340 ug/l		65
76) 1,2,3-Trichloropropane	10.001	75	218625	20.053 ug/l #		56
81) trans-1,4-Dichloro-2-b...	10.001	75	218625	48.142 ug/l #		13
92) 1,2-Dibromo-3-Chloropr...	12.349	75	41	Below Cal #		5

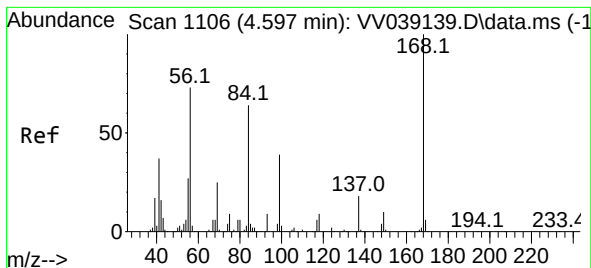
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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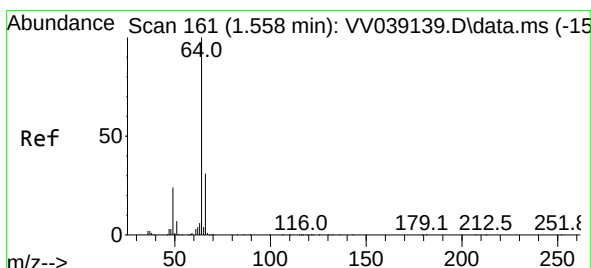
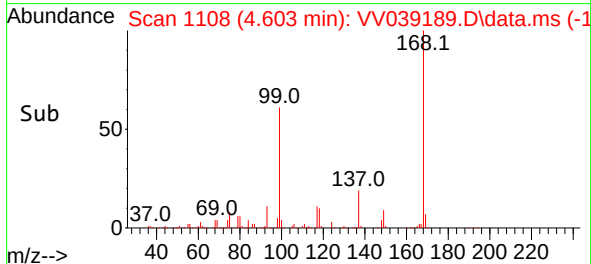
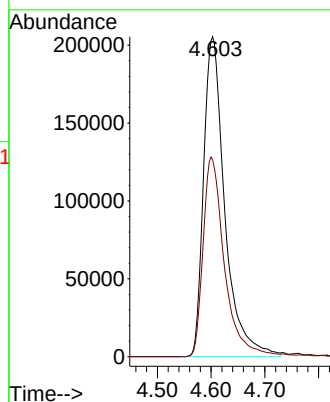
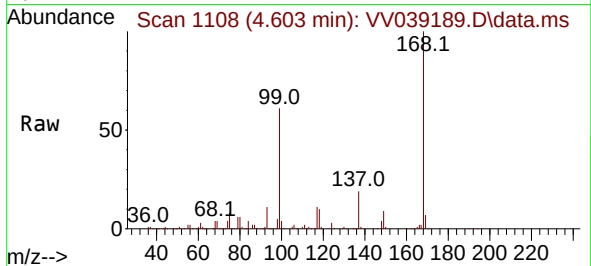




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 4.603 min Scan# 1108
Delta R.T. 0.006 min
Lab File: VV039189.D
Acq: 25 Sep 2025 18:10

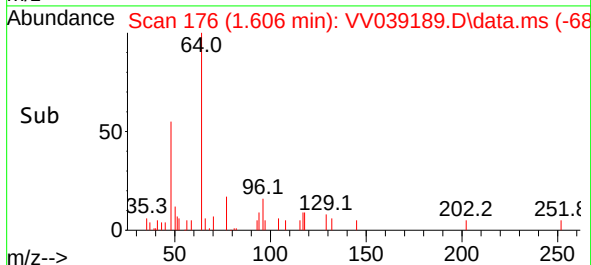
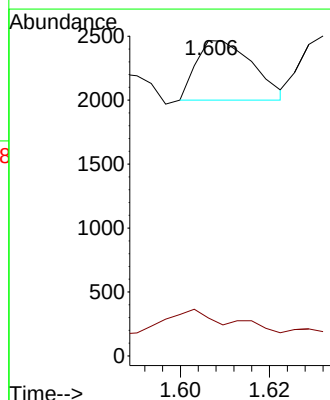
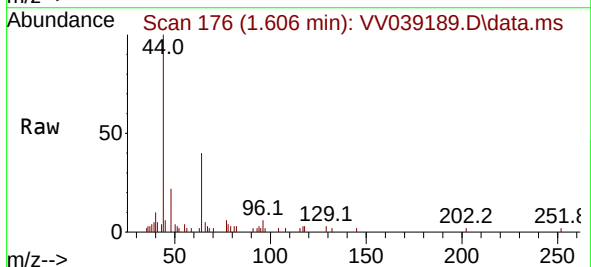
Instrument :
MSVOA_V
ClientSampleId :
FB-01-091925

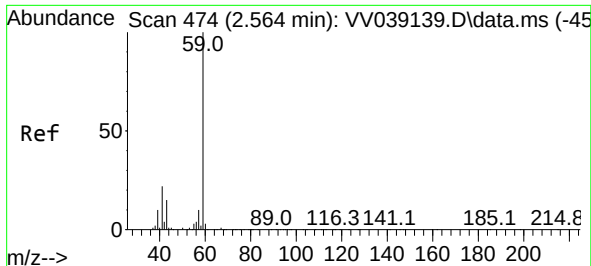
Tgt Ion:168 Resp: 562300
Ion Ratio Lower Upper
168 100
99 61.5 49.6 74.4



#6
Chloroethane
Concen: Below Cal
RT: 1.606 min Scan# 176
Delta R.T. 0.048 min
Lab File: VV039189.D
Acq: 25 Sep 2025 18:10

Tgt Ion: 64 Resp: 410
Ion Ratio Lower Upper
64 100
66 24.9 24.6 36.8

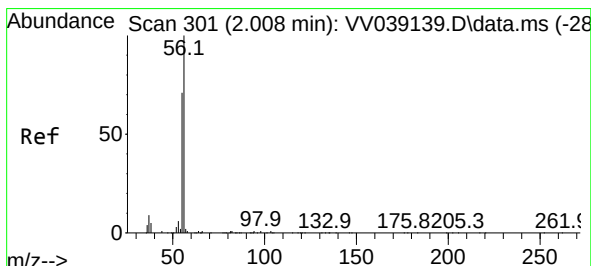
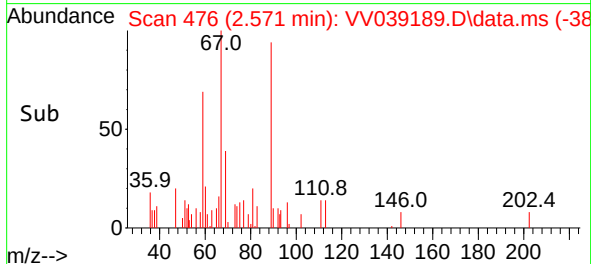
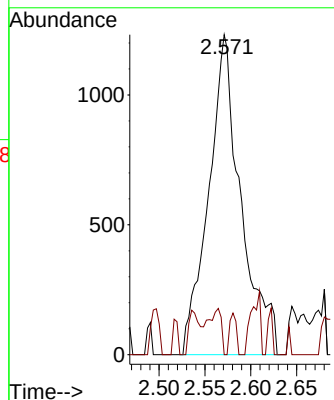
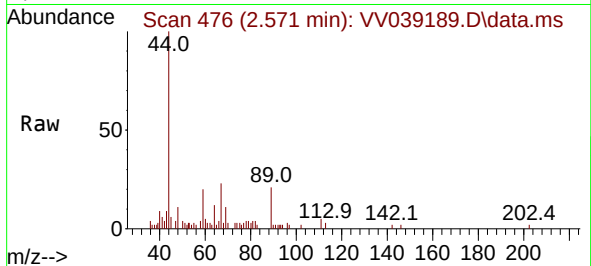




#11
Tert butyl alcohol
Concen: 1.760 ug/l
RT: 2.571 min Scan# 41
Delta R.T. 0.006 min
Lab File: VV039189.D
Acq: 25 Sep 2025 18:10

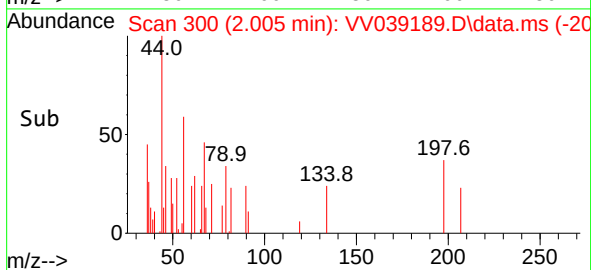
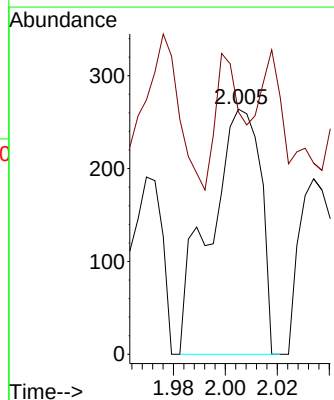
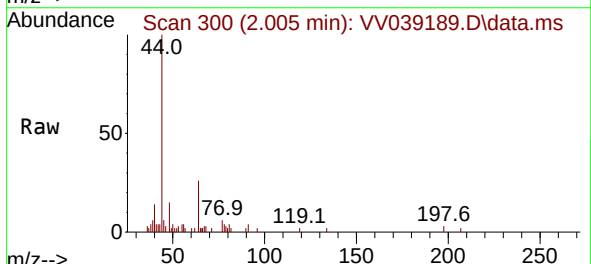
Instrument :
MSVOA_V
ClientSampleId :
FB-01-091925

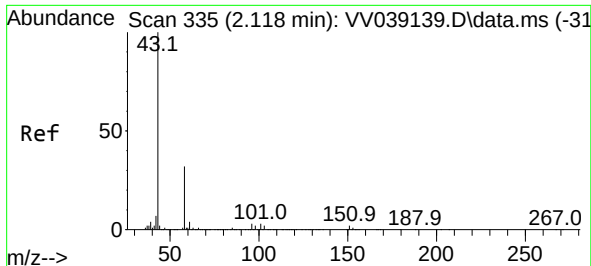
Tgt Ion: 59 Resp: 3027
Ion Ratio Lower Upper
59 100
57 5.6 7.8 11.8#



#13
Acrolein
Concen: 1.199 ug/l
RT: 2.005 min Scan# 300
Delta R.T. -0.003 min
Lab File: VV039189.D
Acq: 25 Sep 2025 18:10

Tgt Ion: 56 Resp: 358
Ion Ratio Lower Upper
56 100
55 26.8 56.2 84.4#

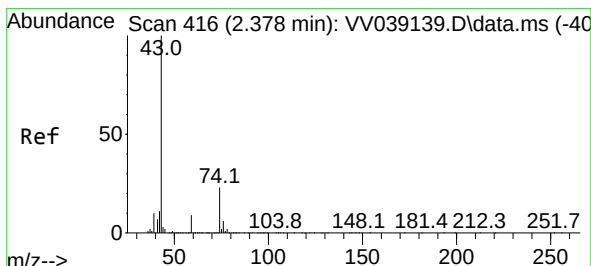
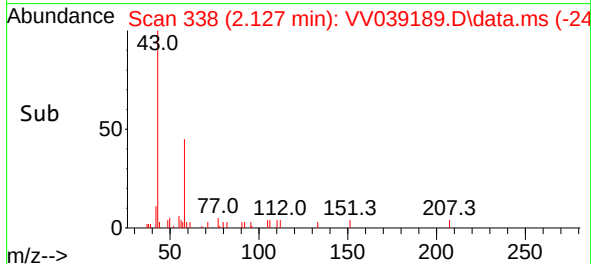
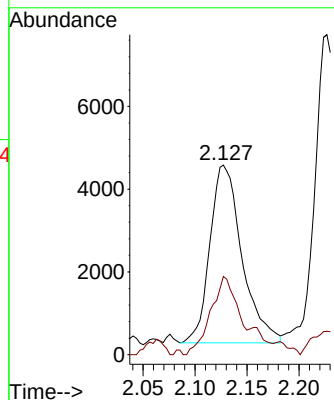
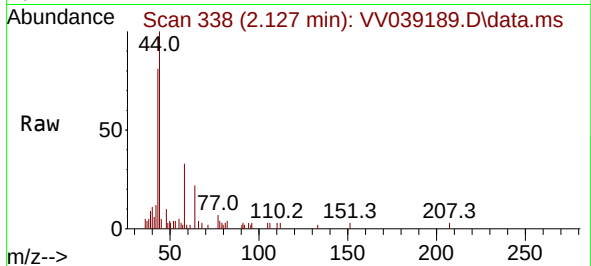




#16
Acetone
Concen: Below Cal
RT: 2.127 min Scan# 311
Delta R.T. 0.009 min
Lab File: VV039189.D
Acq: 25 Sep 2025 18:10

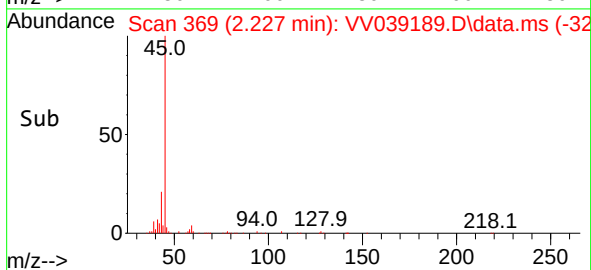
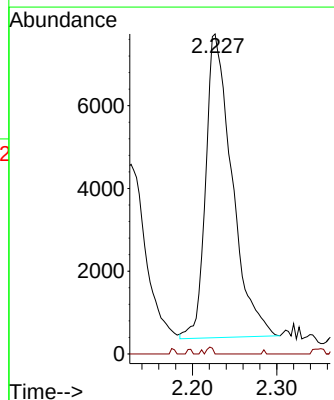
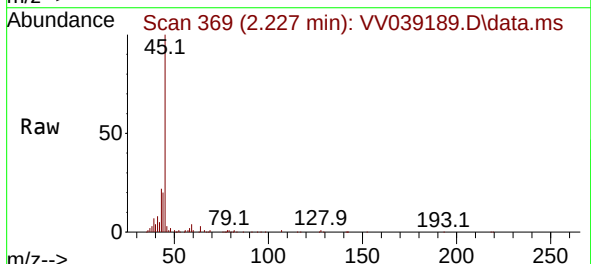
Instrument :
MSVOA_V
ClientSampleId :
FB-01-091925

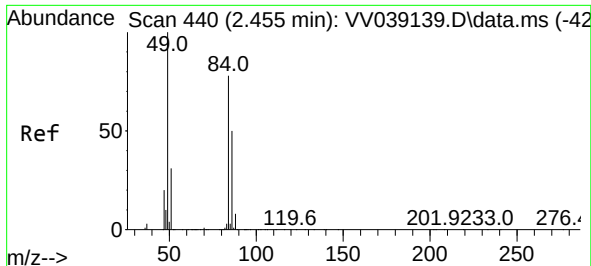
Tgt Ion: 43 Resp: 9216
Ion Ratio Lower Upper
43 100
58 41.4 25.8 38.6#



#18
Methyl Acetate
Concen: 1.322 ug/l
RT: 2.227 min Scan# 369
Delta R.T. -0.151 min
Lab File: VV039189.D
Acq: 25 Sep 2025 18:10

Tgt Ion: 43 Resp: 15936
Ion Ratio Lower Upper
43 100
74 0.6 18.6 27.8#

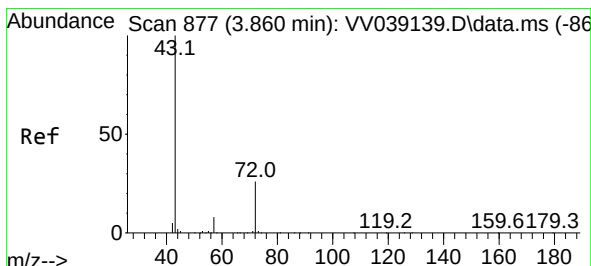
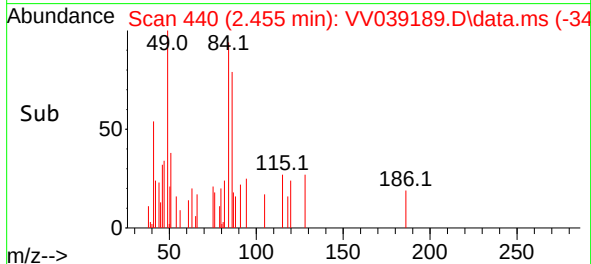
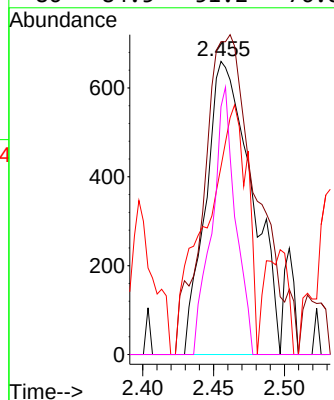
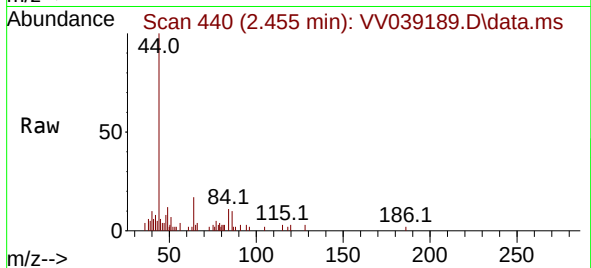




#20
Methylene Chloride
Concen: Below Cal
RT: 2.455 min Scan# 440
Delta R.T. 0.000 min
Lab File: VV039189.D
Acq: 25 Sep 2025 18:10

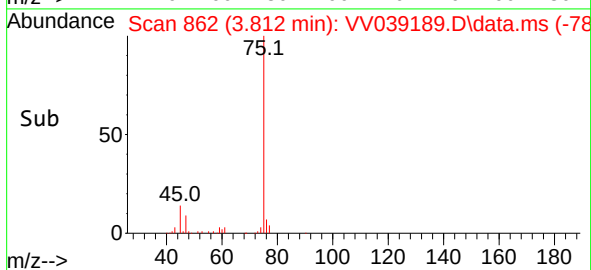
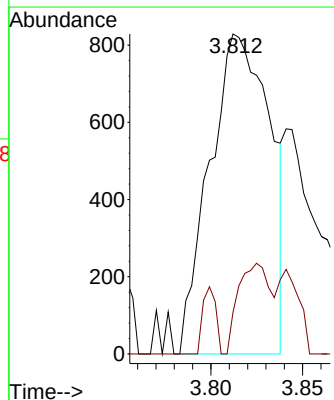
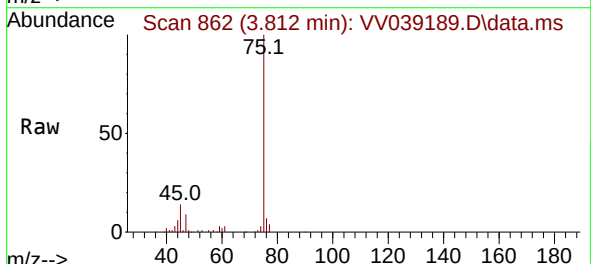
Instrument :
MSVOA_V
ClientSampleId :
FB-01-091925

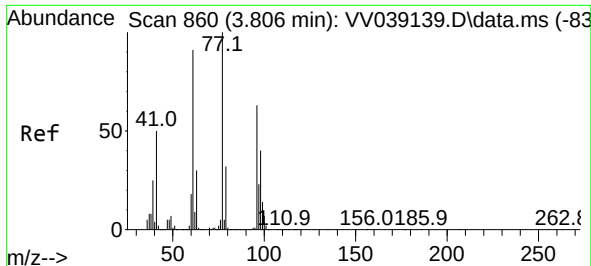
Tgt Ion:	84	Resp:	1490
Ion	Ratio	Lower	Upper
84	100		
49	87.0	102.8	154.2#
51	43.5	31.9	47.9
86	84.5	51.2	76.8#



#25
2-Butanone
Concen: 0.290 ug/l
RT: 3.812 min Scan# 862
Delta R.T. -0.048 min
Lab File: VV039189.D
Acq: 25 Sep 2025 18:10

Tgt Ion:	43	Resp:	1889
Ion	Ratio	Lower	Upper
43	100		
72	13.0	21.0	31.6#





#26

2,2-Dichloropropane

Concen: 0.267 ug/l

RT: 3.822 min Scan# 80

Delta R.T. 0.016 min

Lab File: VV039189.D

Acq: 25 Sep 2025 18:10

Instrument :

MSVOA_V

ClientSampleId :

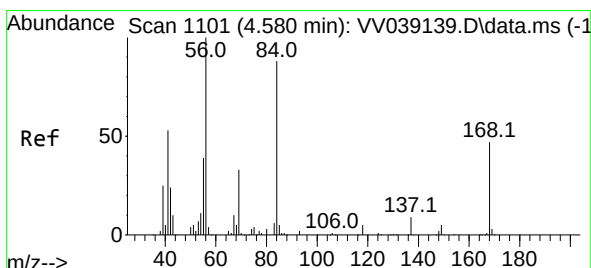
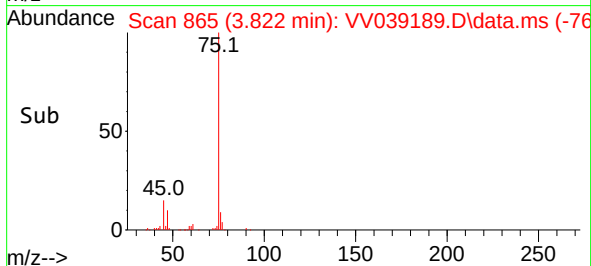
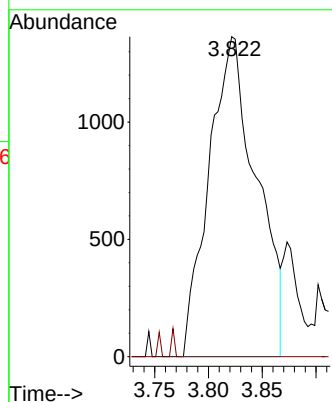
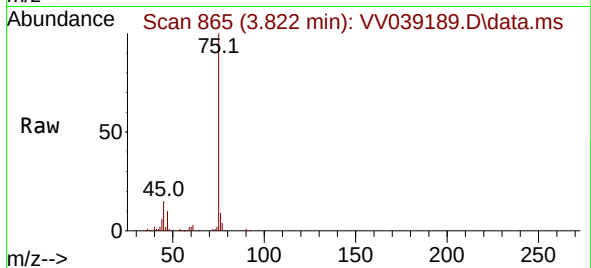
FB-01-091925

Tgt Ion: 77 Resp: 4187

Ion Ratio Lower Upper

77 100

97 0.0 11.6 34.7#



#31

Cyclohexane

Concen: 0.853 ug/l

RT: 4.597 min Scan# 1106

Delta R.T. 0.016 min

Lab File: VV039189.D

Acq: 25 Sep 2025 18:10

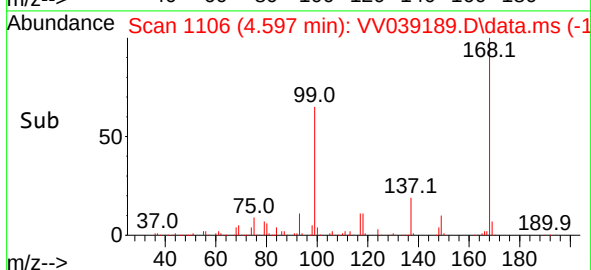
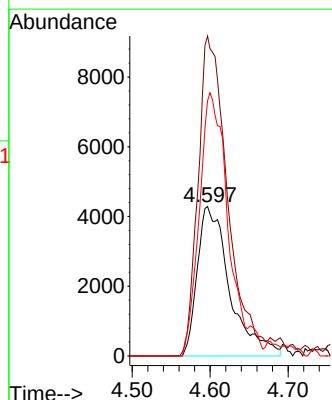
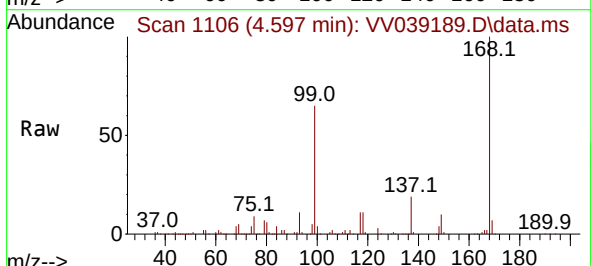
Tgt Ion: 56 Resp: 12376

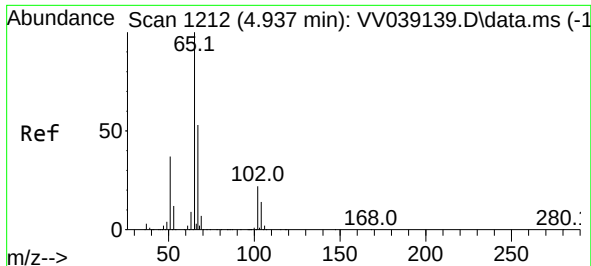
Ion Ratio Lower Upper

56 100

69 214.2 26.2 39.2#

84 170.8 70.3 105.5#





#33

1,2-Dichloroethane-d4

Concen: 53.958 ug/l

RT: 4.941 min Scan# 11

Delta R.T. 0.003 min

Lab File: VV039189.D

Acq: 25 Sep 2025 18:10

Instrument :

MSVOA_V

ClientSampleId :

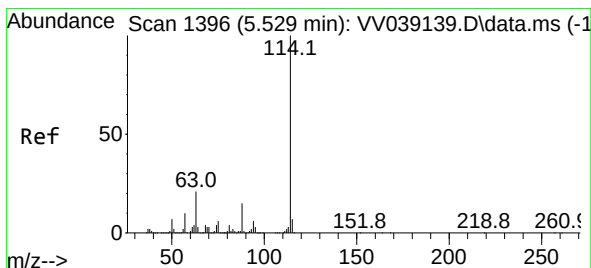
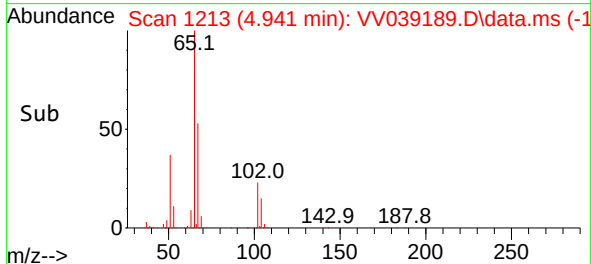
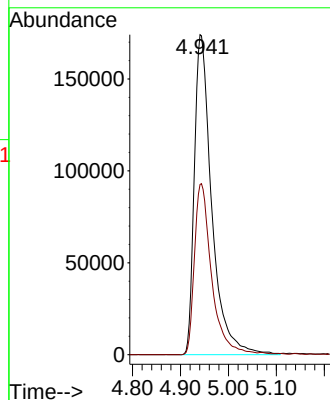
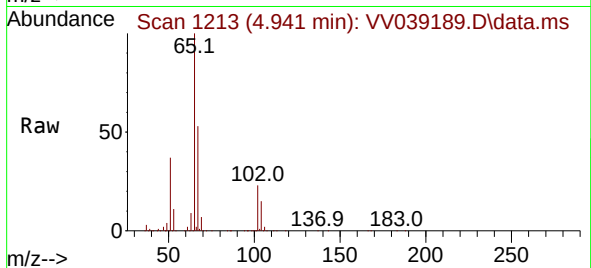
FB-01-091925

Tgt Ion: 65 Resp: 439118

Ion Ratio Lower Upper

65 100

67 52.6 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: VV039189.D

Acq: 25 Sep 2025 18:10

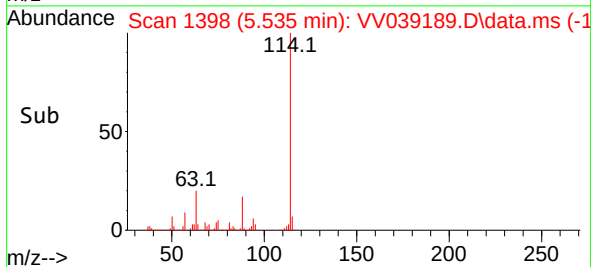
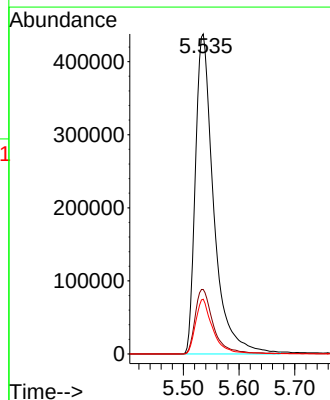
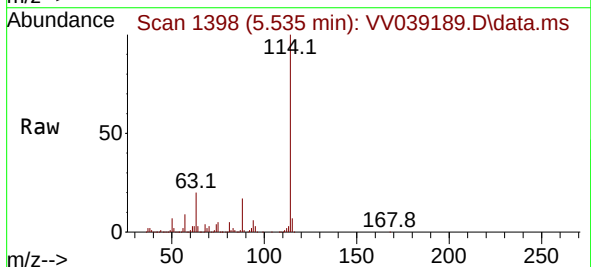
Tgt Ion: 114 Resp: 1002078

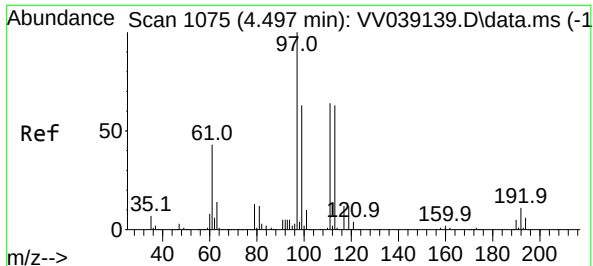
Ion Ratio Lower Upper

114 100

63 20.2 0.0 42.6

88 17.1 0.0 30.8

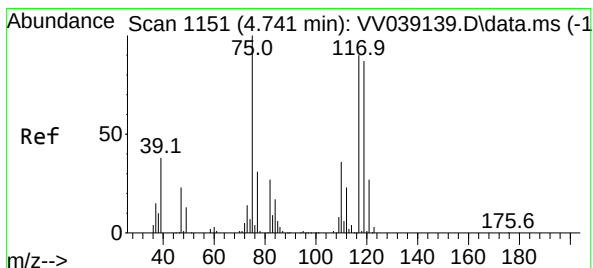
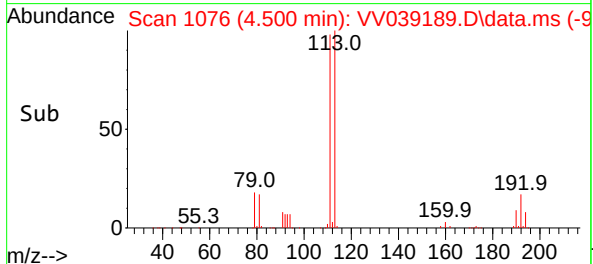
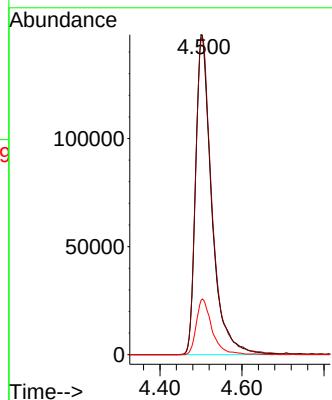
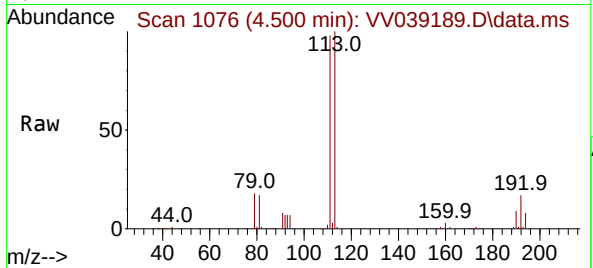




#35
Dibromofluoromethane
Concen: 49.996 ug/l
RT: 4.500 min Scan# 1106
Delta R.T. 0.003 min
Lab File: VV039189.D
Acq: 25 Sep 2025 18:10

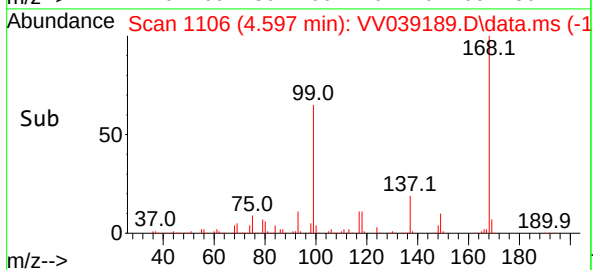
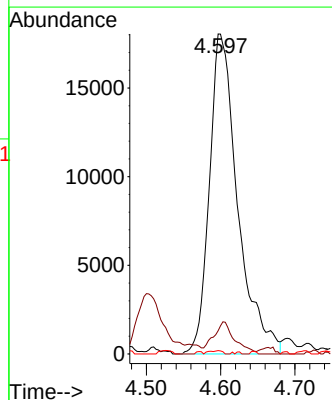
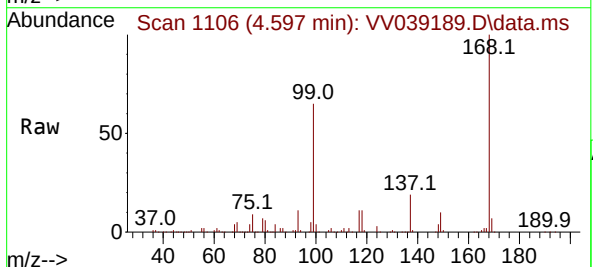
Instrument :
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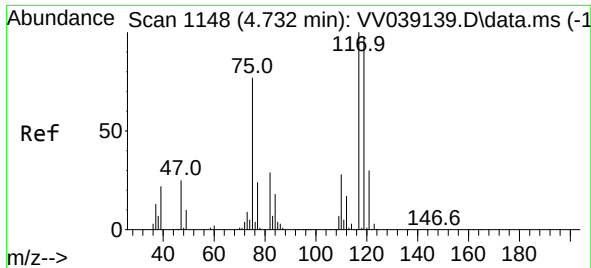
Tgt Ion:113 Resp: 402765
Ion Ratio Lower Upper
113 100
111 101.1 82.4 123.6
192 16.9 13.8 20.8



#36
1,1-Dichloropropene
Concen: 3.920 ug/l
RT: 4.597 min Scan# 1106
Delta R.T. -0.144 min
Lab File: VV039189.D
Acq: 25 Sep 2025 18:10

Tgt Ion: 75 Resp: 47741
Ion Ratio Lower Upper
75 100
110 6.4 18.1 54.1#
77 0.5 24.8 37.2#

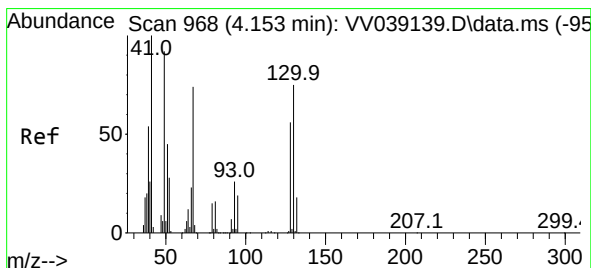
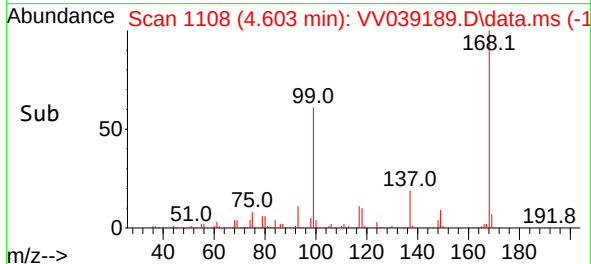
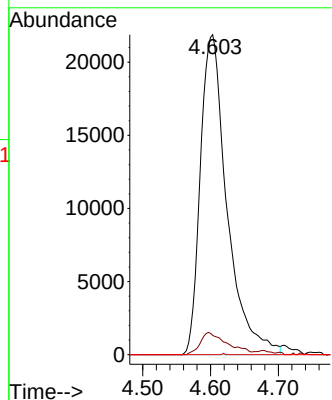
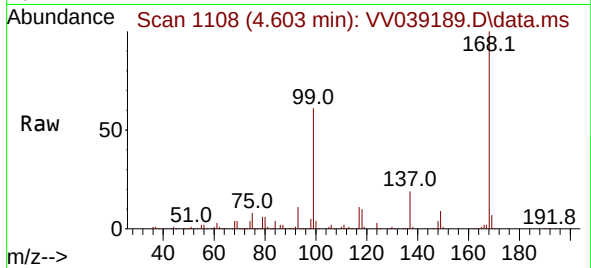




#38
Carbon Tetrachloride
Concen: 4.018 ug/l
RT: 4.603 min Scan# 1148
Delta R.T. -0.129 min
Lab File: VV039189.D
Acq: 25 Sep 2025 18:10

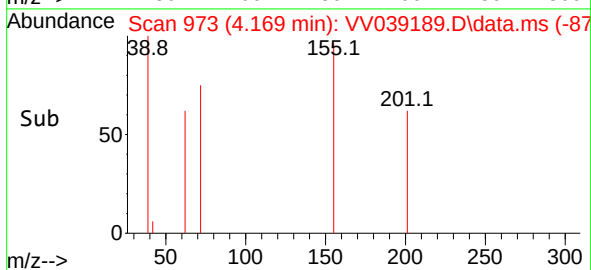
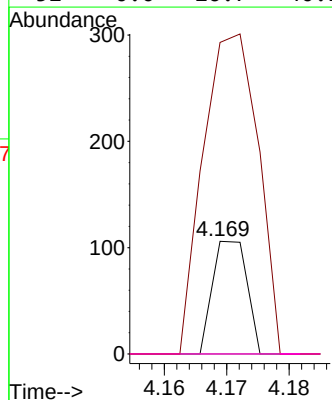
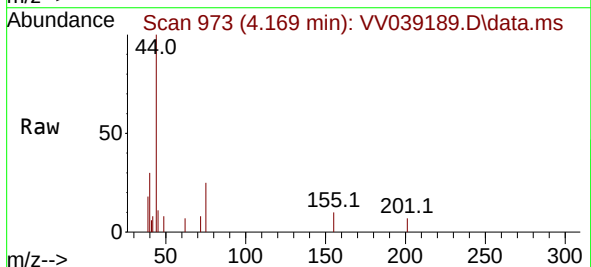
Instrument :
MSVOA_V
ClientSampleId :
FB-01-091925

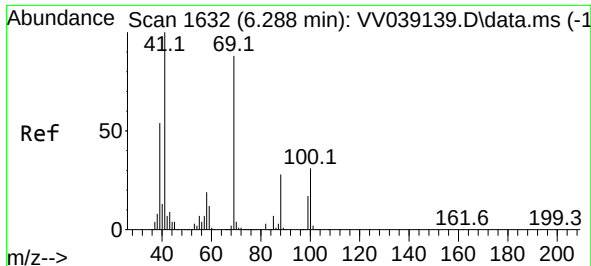
Tgt Ion:117 Resp: 59811
Ion Ratio Lower Upper
117 100
119 6.1 77.2 115.8#
121 0.0 24.2 36.2#



#41
Methacrylonitrile
Concen: 1.916 ug/l
RT: 4.169 min Scan# 973
Delta R.T. 0.016 min
Lab File: VV039189.D
Acq: 25 Sep 2025 18:10

Tgt Ion: 41 Resp: 41
Ion Ratio Lower Upper
41 100
39 448.8 42.2 63.2#
67 0.0 67.9 101.9#
52 0.0 26.7 40.1#





#49

1,4-Dioxane

Concen: 0.522 ug/l

RT: 6.349 min Scan# 1

Delta R.T. 0.061 min

Lab File: VV039189.D

Acq: 25 Sep 2025 18:10

Instrument :

MSVOA_V

ClientSampleId :

FB-01-091925

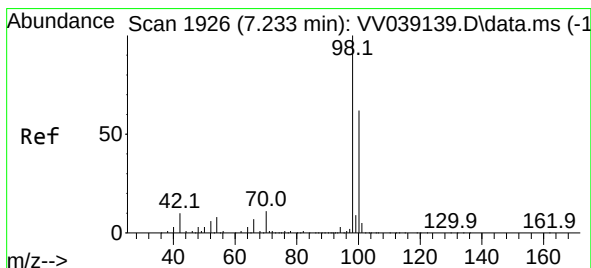
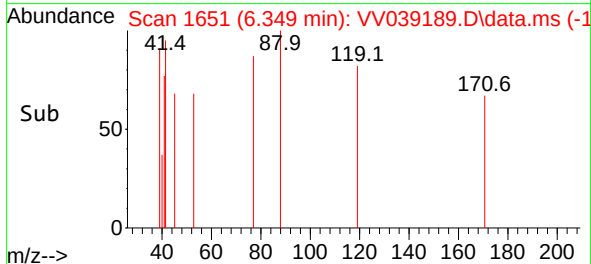
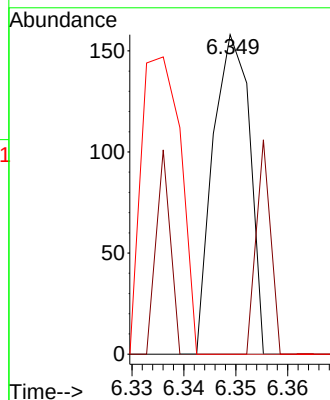
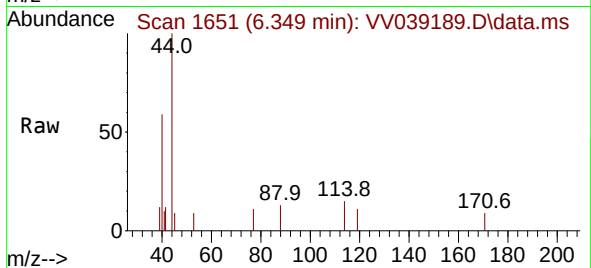
Tgt Ion: 88 Resp: 77

Ion Ratio Lower Upper

88 100

43 26.0 25.1 37.7

58 0.0 53.6 80.4#



#50

Toluene-d8

Concen: 46.137 ug/l

RT: 7.240 min Scan# 1928

Delta R.T. 0.006 min

Lab File: VV039189.D

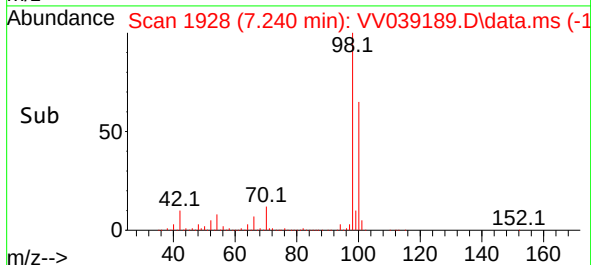
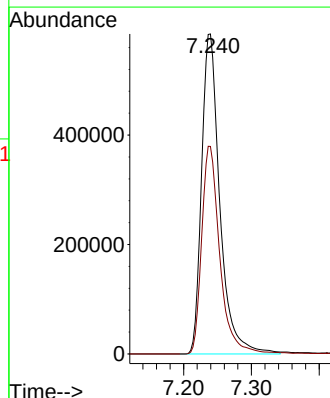
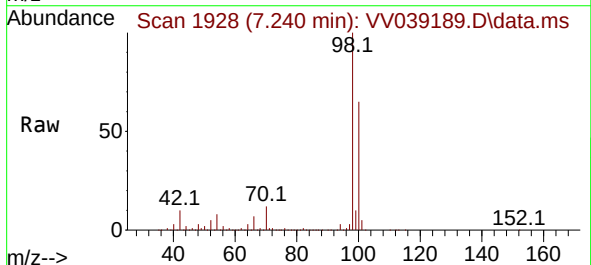
Acq: 25 Sep 2025 18:10

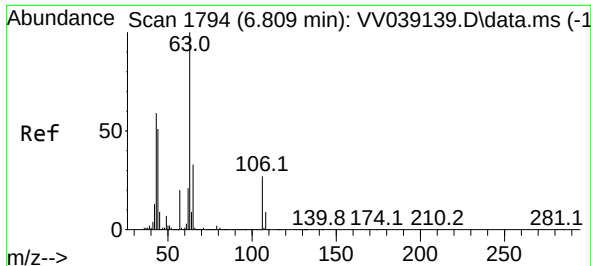
Tgt Ion: 98 Resp: 1091605

Ion Ratio Lower Upper

98 100

100 64.6 52.2 78.2

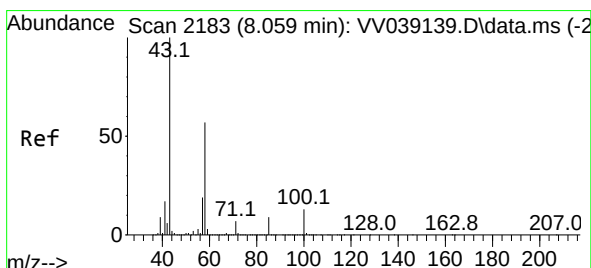
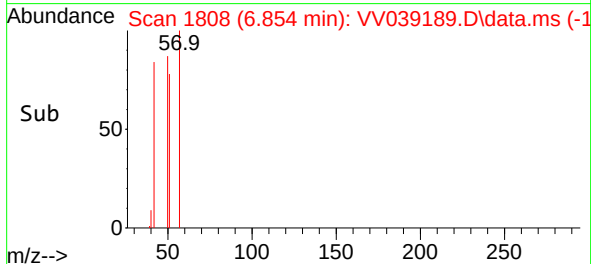
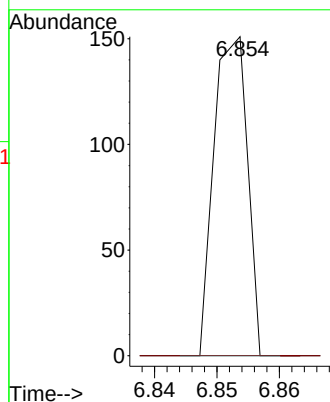
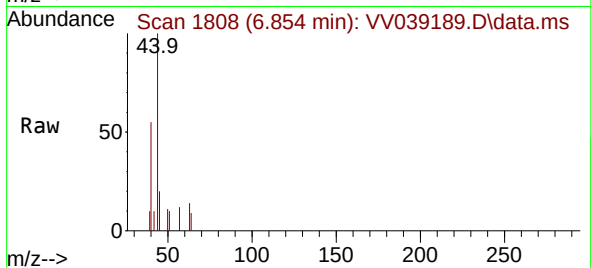




#58
2-Chloroethyl Vinyl ether
Concen: 9.631 ug/l
RT: 6.854 min Scan# 11
Delta R.T. 0.045 min
Lab File: VV039189.D
Acq: 25 Sep 2025 18:10

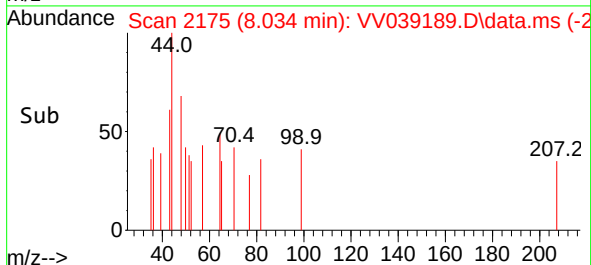
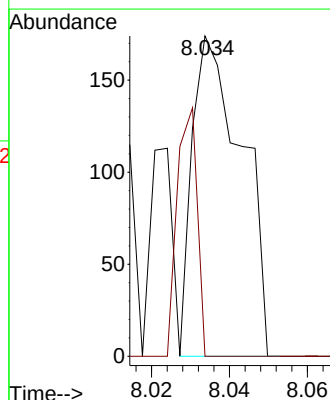
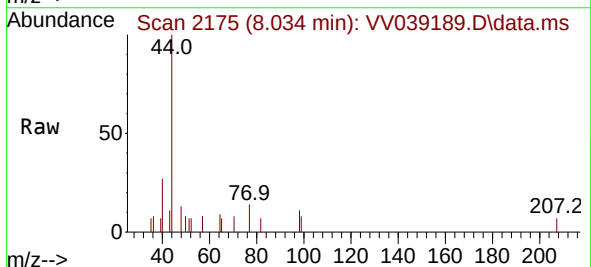
Instrument :
MSVOA_V
ClientSampleId :
FB-01-091925

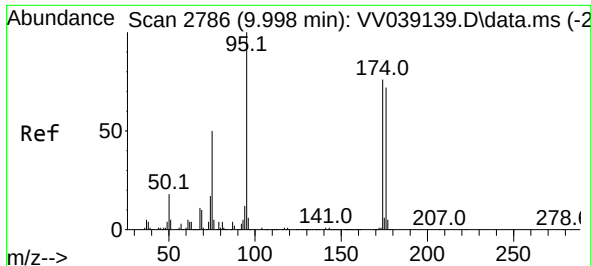
Tgt Ion: 63 Resp: 56
Ion Ratio Lower Upper
63 100
106 0.0 22.1 33.1#



#59
2-Hexanone
Concen: 2.340 ug/l
RT: 8.034 min Scan# 2175
Delta R.T. -0.025 min
Lab File: VV039189.D
Acq: 25 Sep 2025 18:10

Tgt Ion: 43 Resp: 154
Ion Ratio Lower Upper
43 100
58 31.2 28.3 85.0

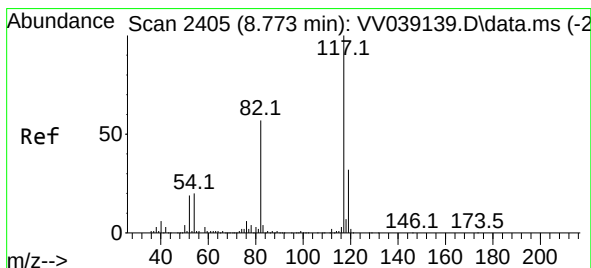
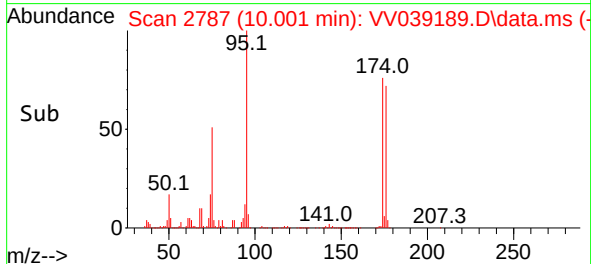
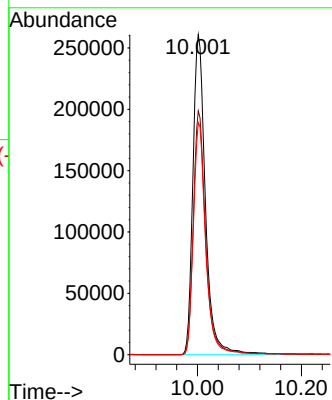
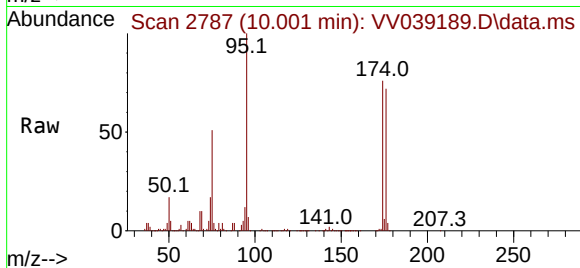




#62
4-Bromofluorobenzene
Concen: 44.983 ug/l
RT: 10.001 min Scan# 21
Delta R.T. 0.003 min
Lab File: VV039189.D
Acq: 25 Sep 2025 18:10

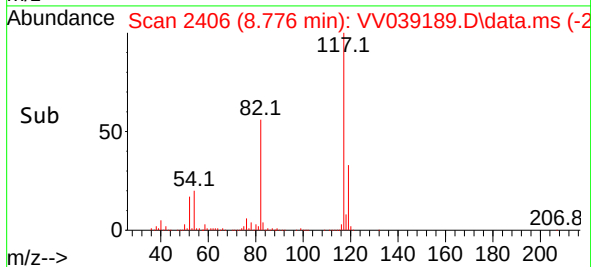
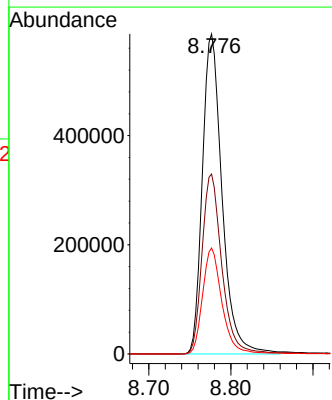
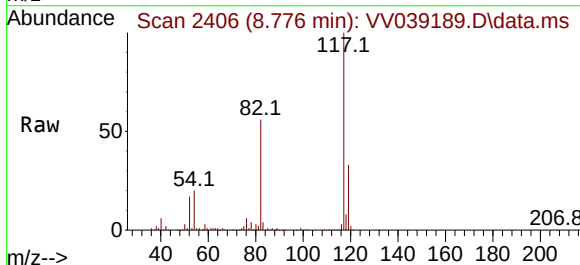
Instrument :
MSVOA_V
ClientSampleId :
FB-01-091925

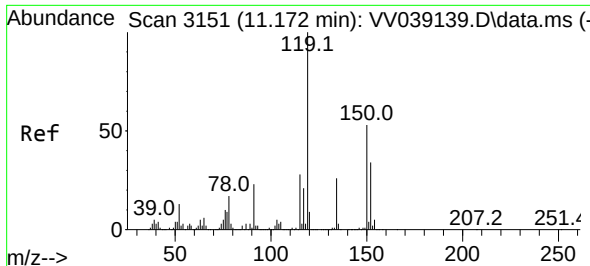
Tgt Ion: 95 Resp: 438151
Ion Ratio Lower Upper
95 100
174 75.2 0.0 150.4
176 70.8 0.0 144.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 8.776 min Scan# 2406
Delta R.T. 0.003 min
Lab File: VV039189.D
Acq: 25 Sep 2025 18:10

Tgt Ion: 117 Resp: 977857
Ion Ratio Lower Upper
117 100
82 56.2 45.4 68.2
119 33.1 25.6 38.4

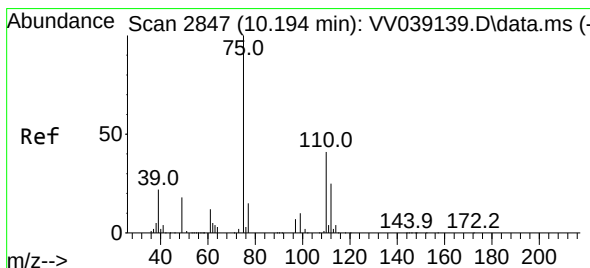
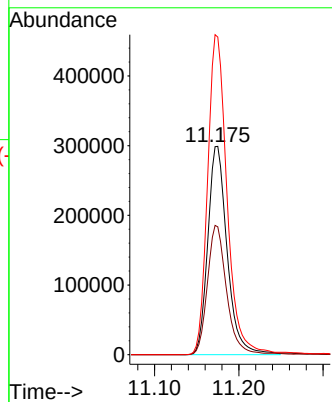
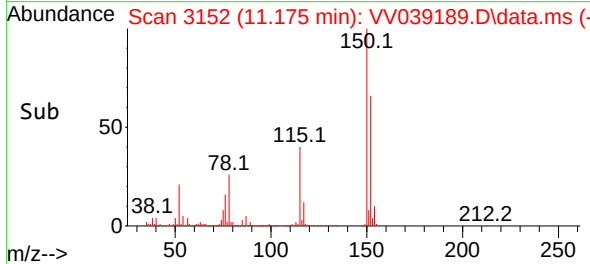
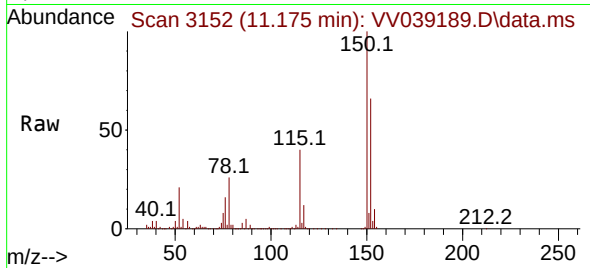




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 11.175 min Scan# 3151
 Delta R.T. 0.003 min
 Lab File: VV039189.D
 Acq: 25 Sep 2025 18:10

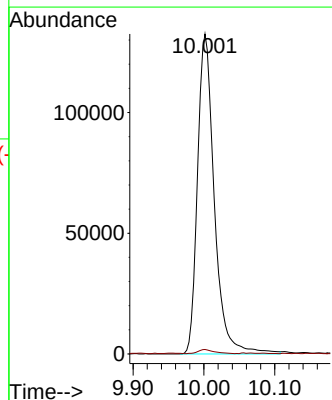
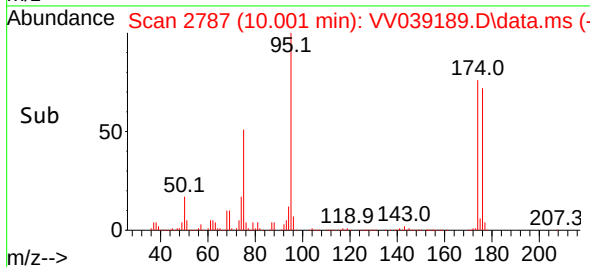
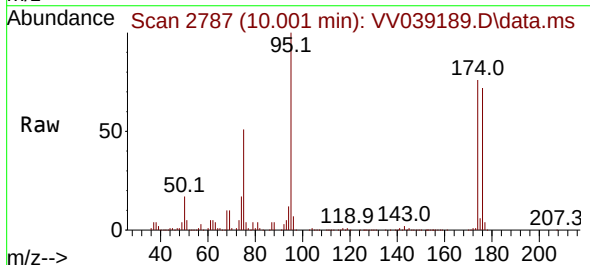
Instrument :
 MSVOA_V
 ClientSampleId :
 FB-01-091925

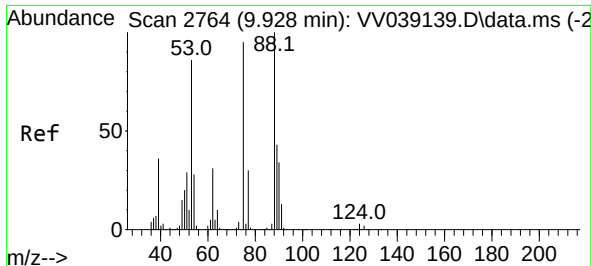
Tgt Ion:152 Resp: 478832
 Ion Ratio Lower Upper
 152 100
 115 61.1 44.8 134.4
 150 153.6 0.0 353.8



#76
 1,2,3-Trichloropropane
 Concen: 20.053 ug/l
 RT: 10.001 min Scan# 2787
 Delta R.T. -0.193 min
 Lab File: VV039189.D
 Acq: 25 Sep 2025 18:10

Tgt Ion: 75 Resp: 218625
 Ion Ratio Lower Upper
 75 100
 77 1.3 11.3 33.8#

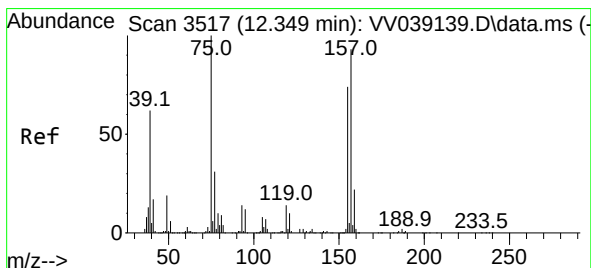
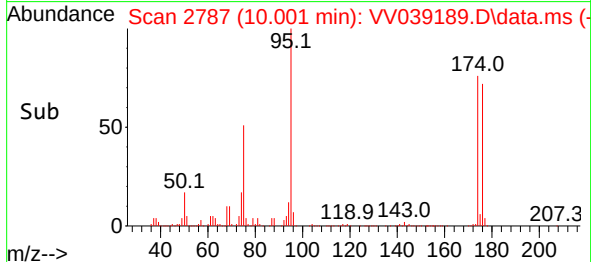
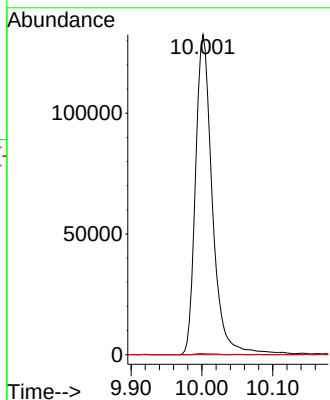
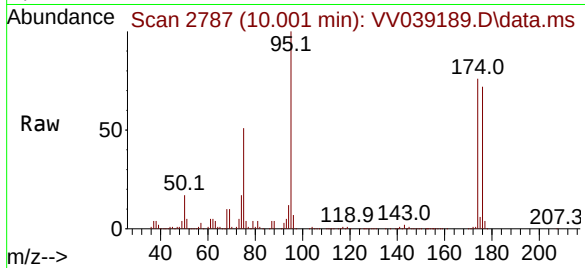




#81
trans-1,4-Dichloro-2-butene
Concen: 48.142 ug/l
RT: 10.001 min Scan# 21
Delta R.T. 0.074 min
Lab File: VV039189.D
Acq: 25 Sep 2025 18:10

Instrument :
MSVOA_V
ClientSampleId :
FB-01-091925

Tgt Ion: 75 Resp: 218625
Ion Ratio Lower Upper
75 100
53 0.4 72.5 108.7#
89 0.0 37.2 55.8#



#92
1,2-Dibromo-3-Chloropropane
Concen: Below Cal
RT: 12.349 min Scan# 3517
Delta R.T. -0.000 min
Lab File: VV039189.D
Acq: 25 Sep 2025 18:10

Tgt Ion: 75 Resp: 41
Ion Ratio Lower Upper
75 100
155 0.0 38.6 115.8#
157 0.0 49.5 148.3#

