

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092925\
 Data File : VV039229.D
 Acq On : 29 Sep 2025 14:16
 Operator : SY/MD
 Sample : Q3195-07
 Misc : 5.0mL/MSVOA_V/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: Sep 30 01:25:55 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	4.600	168	435615	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	5.535	114	743567	50.000	ug/l	0.00
63) Chlorobenzene-d5	8.776	117	762813	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.175	152	378816	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.944	65	350302	55.563	ug/l	0.00
Spiked Amount	50.000	Range	81 - 118	Recovery	= 111.120%	
35) Dibromofluoromethane	4.503	113	336205	56.243	ug/l	0.00
Spiked Amount	50.000	Range	80 - 119	Recovery	= 112.480%	
50) Toluene-d8	7.239	98	807620	46.001	ug/l	0.00
Spiked Amount	50.000	Range	89 - 112	Recovery	= 92.000%	
62) 4-Bromofluorobenzene	10.001	95	325181	44.992	ug/l	0.00
Spiked Amount	50.000	Range	85 - 114	Recovery	= 89.980%	

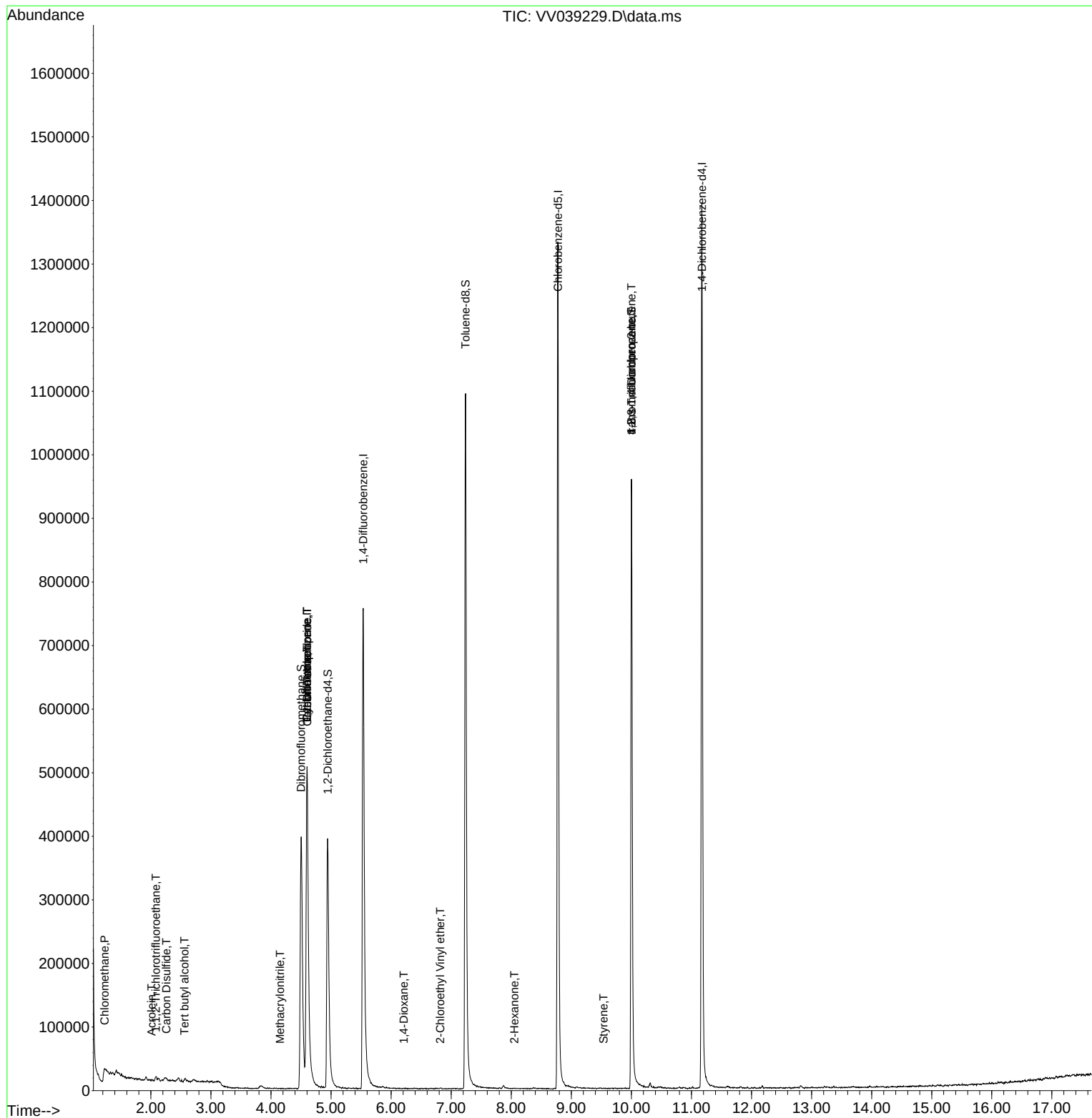
Target Compounds			Qvalue			
3) Chloromethane	1.230	50	1759	0.238	ug/l #	75
6) Chloroethane	1.510	64	1701	Below Cal	#	63
9) 1,1,2-Trichlorotrifluo...	2.085	101	1855	0.272	ug/l	96
11) Tert butyl alcohol	2.561	59	321	0.241	ug/l #	73
13) Acrolein	2.011	56	283	1.224	ug/l #	7
16) Acetone	2.127	43	4737	Below Cal	#	82
17) Carbon Disulfide	2.256	76	4552	0.227	ug/l	99
20) Methylene Chloride	2.461	84	2562	Below Cal	#	86
31) Cyclohexane	4.600	56	9470	0.842	ug/l #	1
36) 1,1-Dichloropropene	4.600	75	33667	3.725	ug/l #	47
38) Carbon Tetrachloride	4.603	117	46878	4.244	ug/l #	16
41) Methacrylonitrile	4.149	41	103	1.930	ug/l #	26
49) 1,4-Dioxane	6.210	88	70	0.640	ug/l #	1
58) 2-Chloroethyl Vinyl ether	6.818	63	1026	9.815	ug/l #	55
59) 2-Hexanone	8.053	43	69	2.334	ug/l	92
70) Styrene	9.535	104	43	1.563	ug/l #	26
76) 1,2,3-Trichloropropane	10.001	75	161469	18.721	ug/l #	56
81) trans-1,4-Dichloro-2-b...	10.001	75	161469	44.943	ug/l #	13
92) 1,2-Dibromo-3-Chloropr...	12.361	75	55	Below Cal	#	5

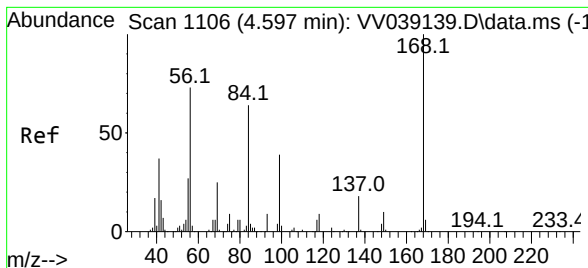
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.600 min Scan# 1106

Delta R.T. 0.003 min

Lab File: VV039229.D

Acq: 29 Sep 2025 14:16

Instrument :

MSVOA_V

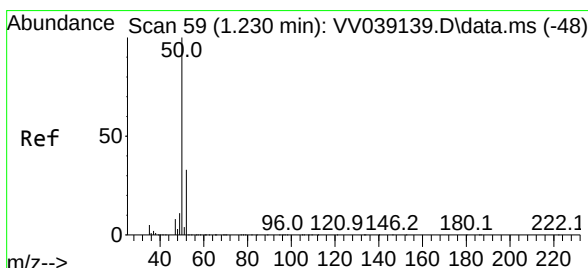
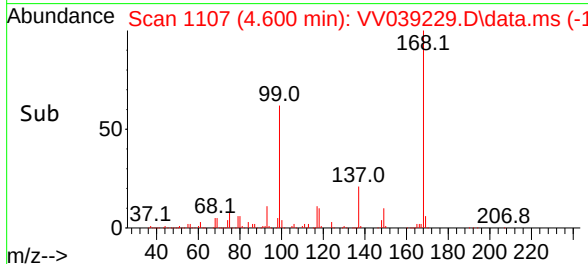
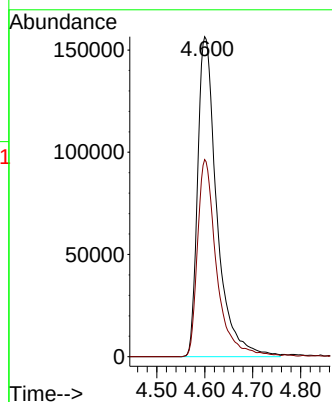
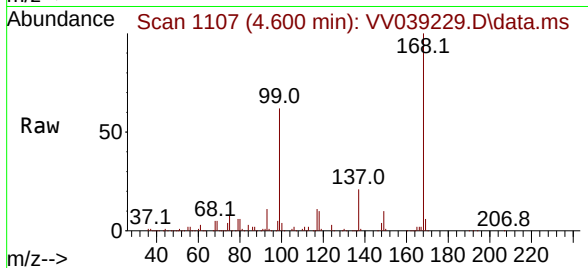
ClientSampleId :

Tgt Ion:168 Resp: 435615

Ion Ratio Lower Upper

168 100

99 61.6 49.6 74.4



#3

Chloromethane

Concen: 0.238 ug/l

RT: 1.230 min Scan# 59

Delta R.T. -0.000 min

Lab File: VV039229.D

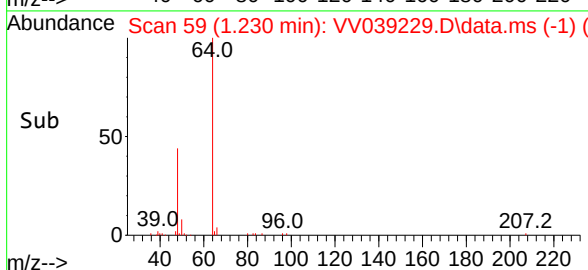
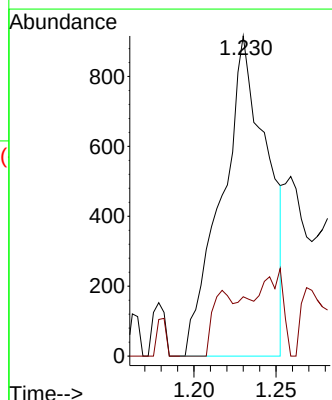
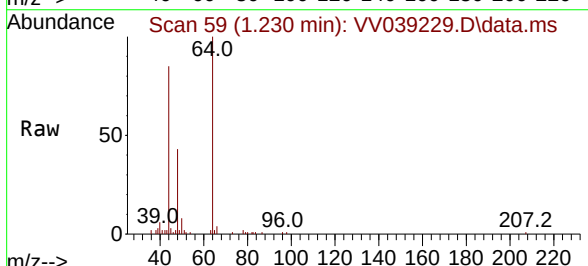
Acq: 29 Sep 2025 14:16

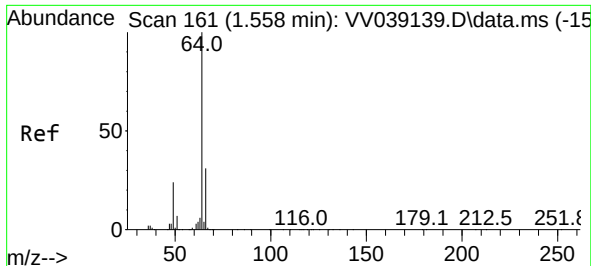
Tgt Ion: 50 Resp: 1759

Ion Ratio Lower Upper

50 100

52 18.6 26.0 39.0#

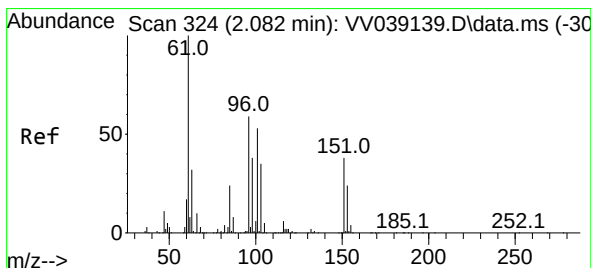
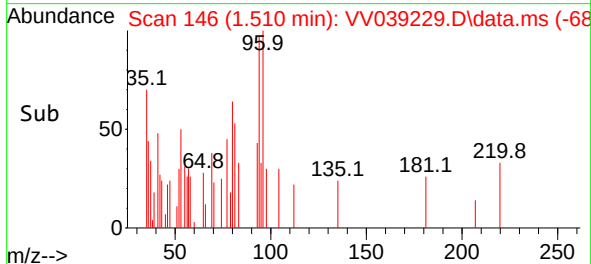
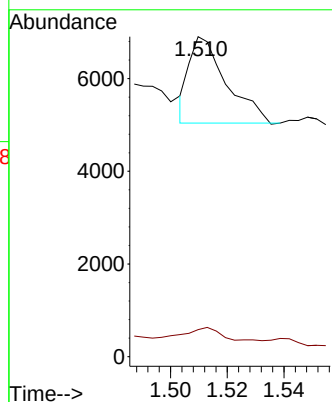
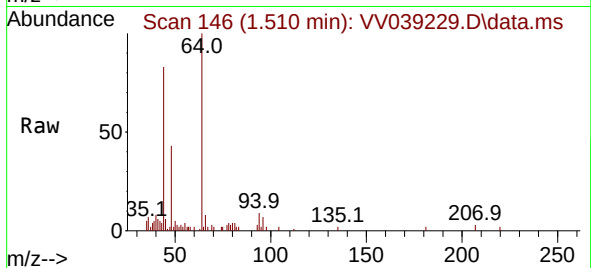




#6
Chloroethane
Concen: Below Cal
RT: 1.510 min Scan# 14
Delta R.T. -0.048 min
Lab File: VV039229.D
Acq: 29 Sep 2025 14:16

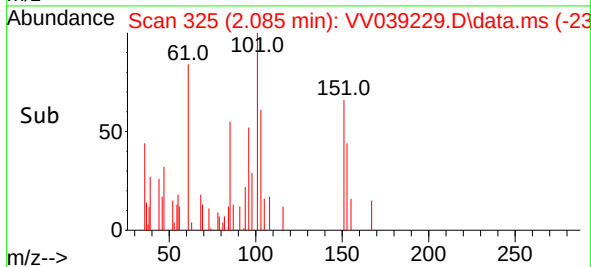
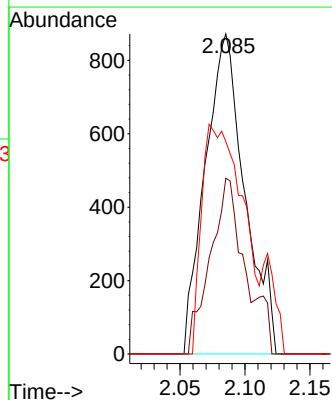
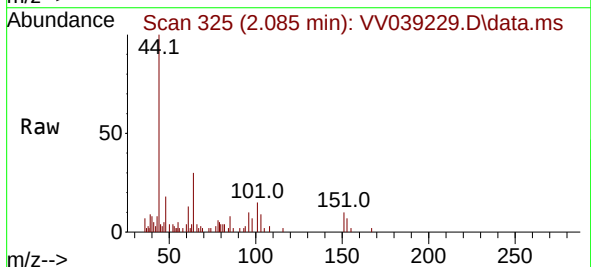
Instrument :
MSVOA_V
ClientSampleId :

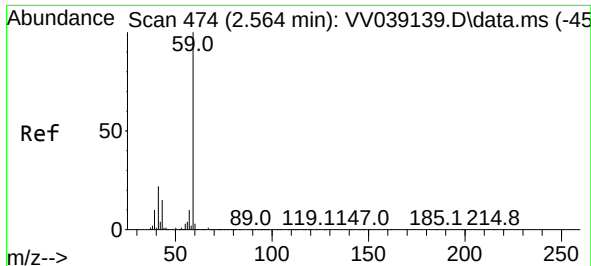
Tgt Ion: 64 Resp: 1701
Ion Ratio Lower Upper
64 100
66 10.2 24.6 36.8#



#9
1,1,2-Trichlorotrifluoroethane
Concen: 0.272 ug/l
RT: 2.085 min Scan# 325
Delta R.T. 0.003 min
Lab File: VV039229.D
Acq: 29 Sep 2025 14:16

Tgt Ion:101 Resp: 1855
Ion Ratio Lower Upper
101 100
85 43.9 36.2 54.2
151 74.4 56.3 84.5

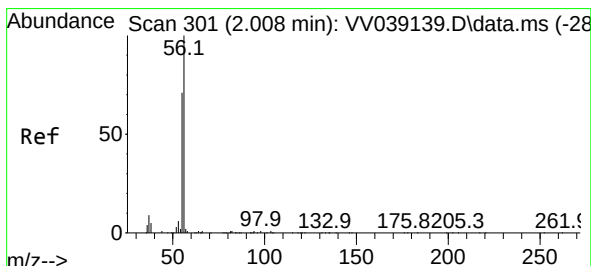
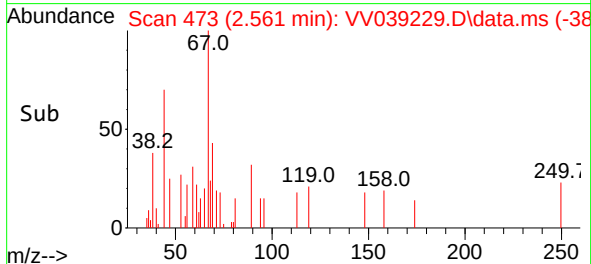
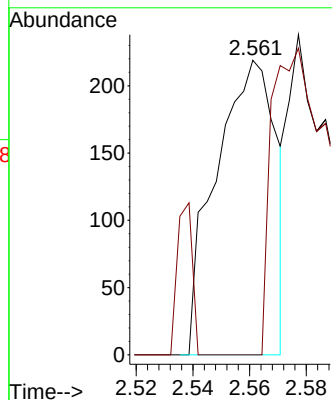
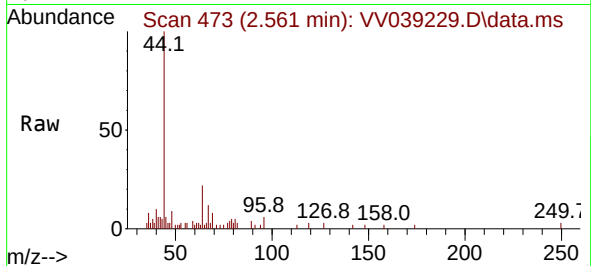




#11
Tert butyl alcohol
Concen: 0.241 ug/l
RT: 2.561 min Scan# 41
Delta R.T. -0.003 min
Lab File: VV039229.D
Acq: 29 Sep 2025 14:16

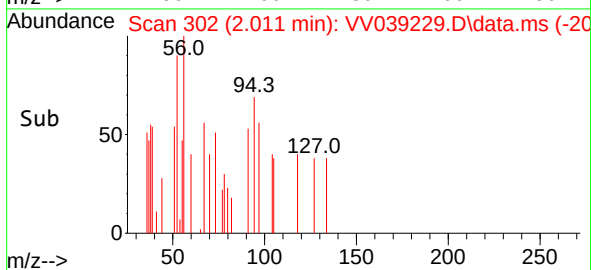
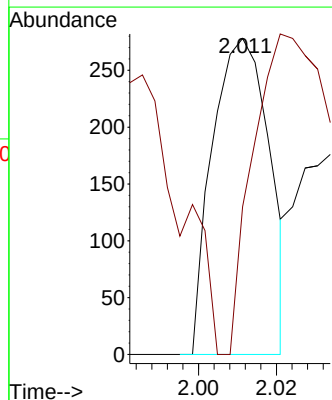
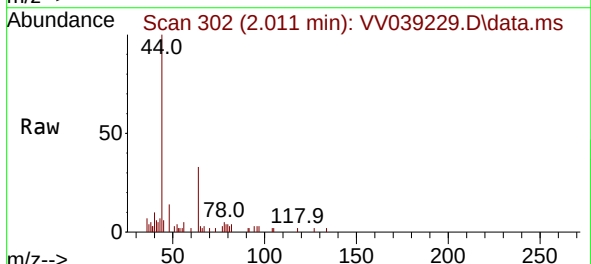
Instrument :
MSVOA_V
ClientSampleId :

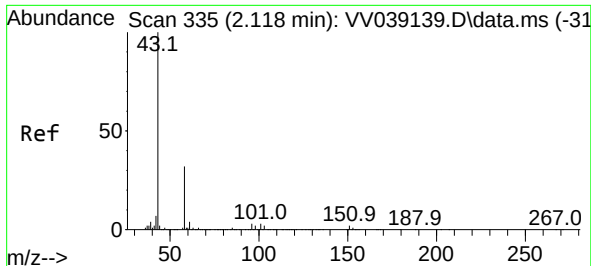
Tgt Ion: 59 Resp: 321
Ion Ratio Lower Upper
59 100
57 0.0 7.8 11.8#



#13
Acrolein
Concen: 1.224 ug/l
RT: 2.011 min Scan# 302
Delta R.T. 0.003 min
Lab File: VV039229.D
Acq: 29 Sep 2025 14:16

Tgt Ion: 56 Resp: 283
Ion Ratio Lower Upper
56 100
55 147.0 56.2 84.4#

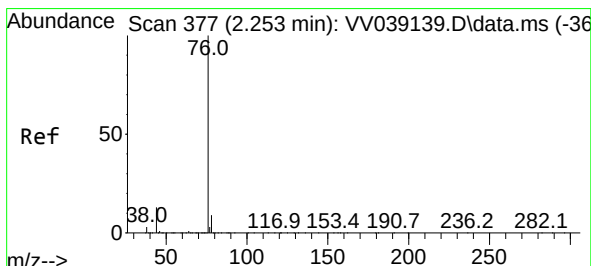
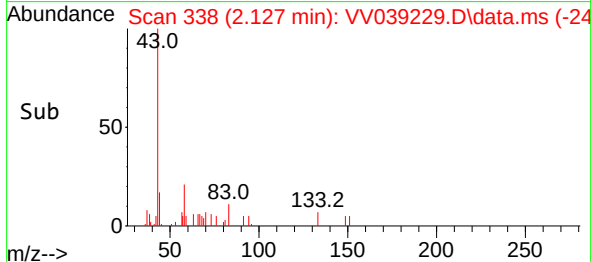
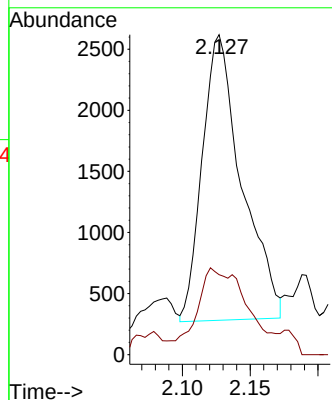
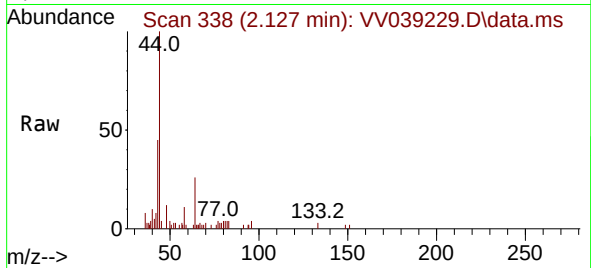




#16
Acetone
Concen: Below Cal
RT: 2.127 min Scan# 31
Delta R.T. 0.009 min
Lab File: VV039229.D
Acq: 29 Sep 2025 14:16

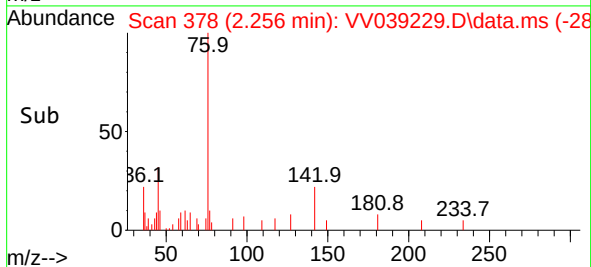
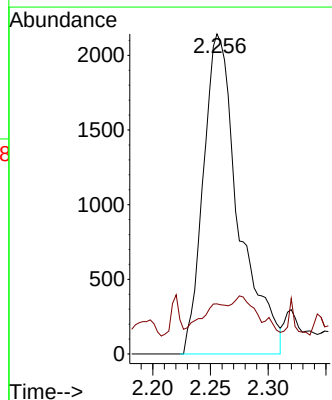
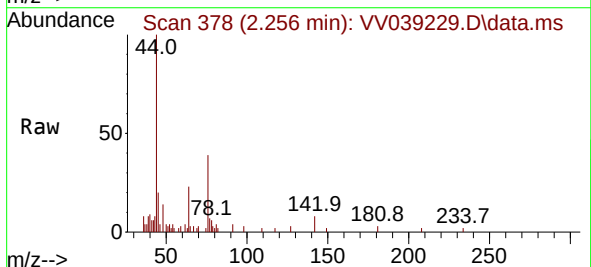
Instrument :
MSVOA_V
ClientSampleId :

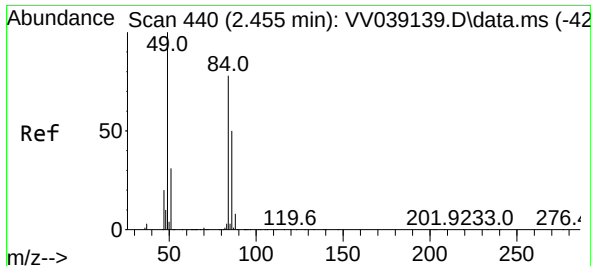
Tgt Ion: 43 Resp: 4737
Ion Ratio Lower Upper
43 100
58 21.9 25.8 38.6#



#17
Carbon Disulfide
Concen: 0.227 ug/l
RT: 2.256 min Scan# 378
Delta R.T. 0.003 min
Lab File: VV039229.D
Acq: 29 Sep 2025 14:16

Tgt Ion: 76 Resp: 4552
Ion Ratio Lower Upper
76 100
78 8.9 7.4 11.0

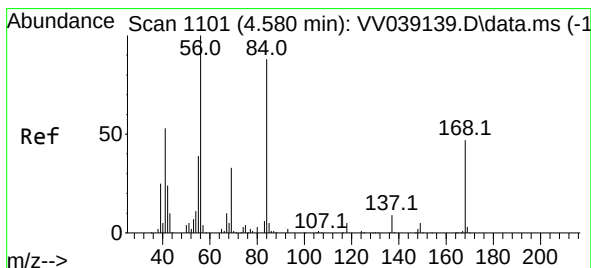
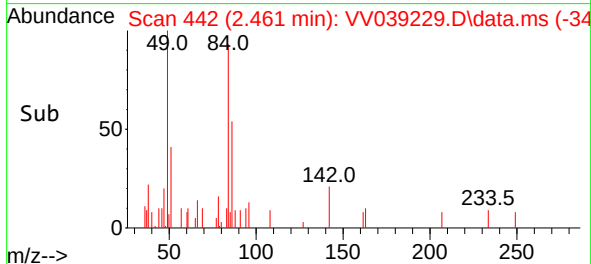
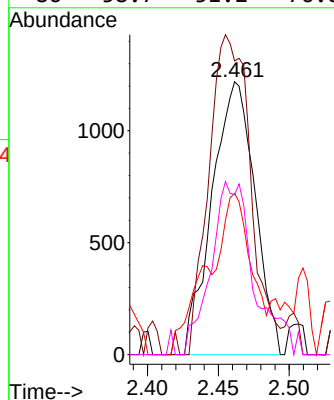
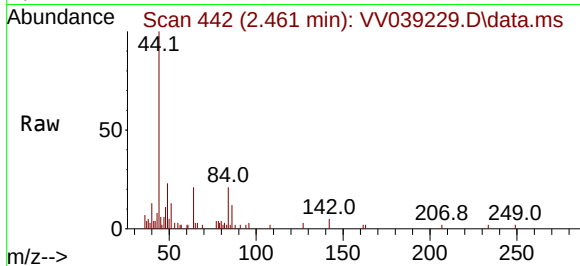




#20
Methylene Chloride
Concen: Below Cal
RT: 2.461 min Scan# 440
Delta R.T. 0.006 min
Lab File: VV039229.D
Acq: 29 Sep 2025 14:16

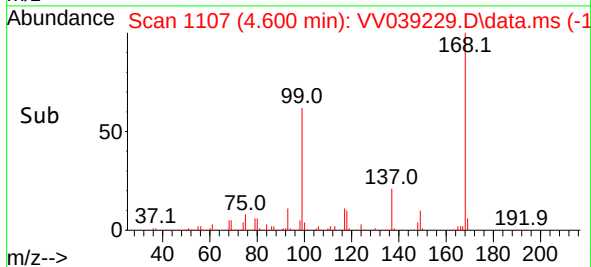
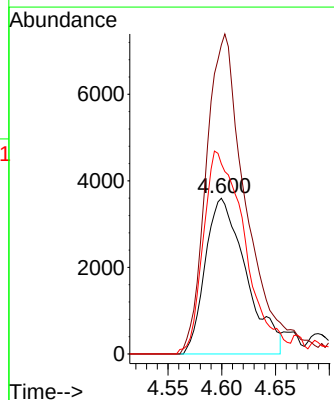
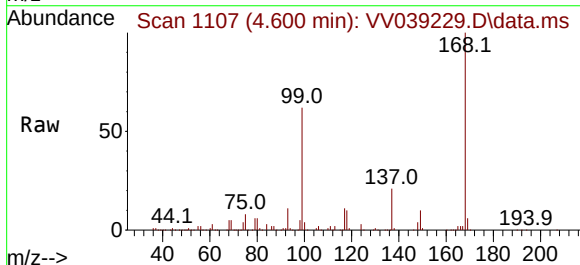
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MSVOA_V
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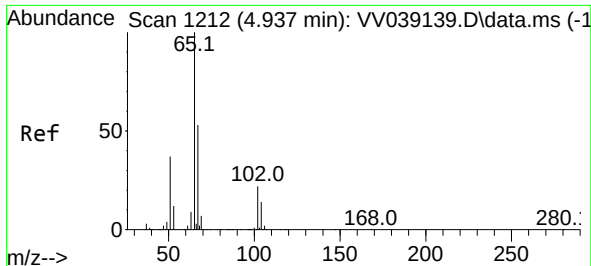
Tgt Ion:	84	Resp:	2562
Ion	Ratio	Lower	Upper
84	100		
49	107.6	102.8	154.2
51	49.4	31.9	47.9#
86	58.7	51.2	76.8



#31
Cyclohexane
Concen: 0.842 ug/l
RT: 4.600 min Scan# 1107
Delta R.T. 0.019 min
Lab File: VV039229.D
Acq: 29 Sep 2025 14:16

Tgt Ion:	56	Resp:	9470
Ion	Ratio	Lower	Upper
56	100		
69	198.5	26.2	39.2#
84	119.4	70.3	105.5#





#33

1,2-Dichloroethane-d4

Concen: 55.563 ug/l

RT: 4.944 min Scan# 11

Delta R.T. 0.006 min

Lab File: VV039229.D

Acq: 29 Sep 2025 14:16

Instrument :

MSVOA_V

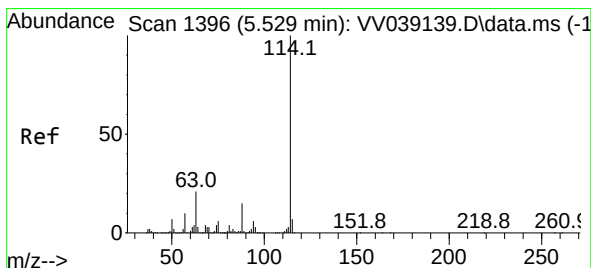
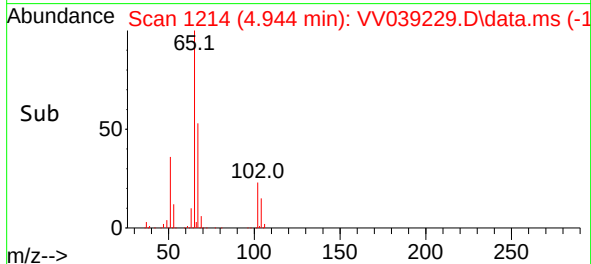
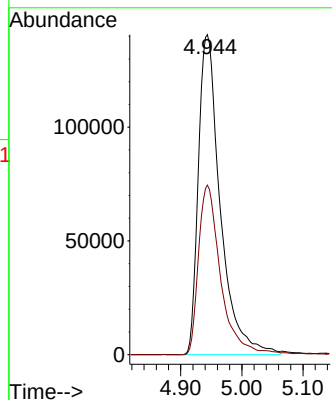
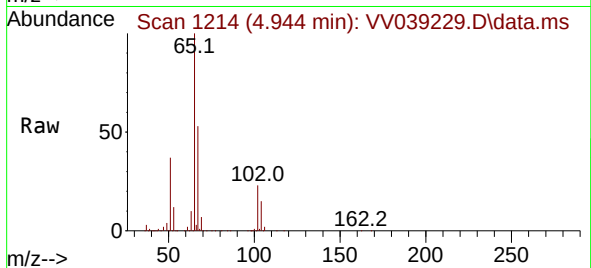
ClientSampleId :

Tgt Ion: 65 Resp: 350302

Ion Ratio Lower Upper

65 100

67 53.7 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: VV039229.D

Acq: 29 Sep 2025 14:16

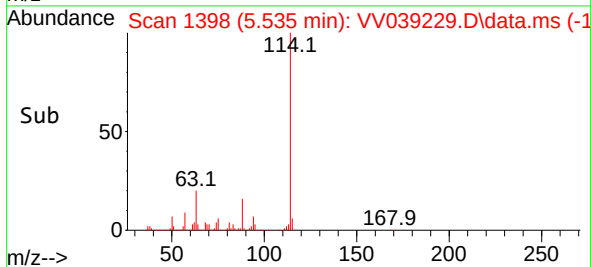
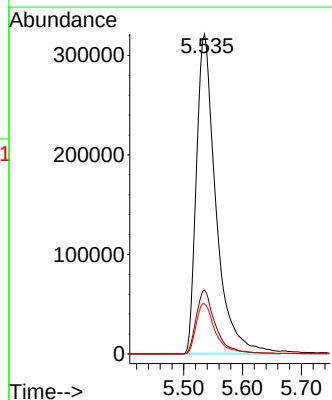
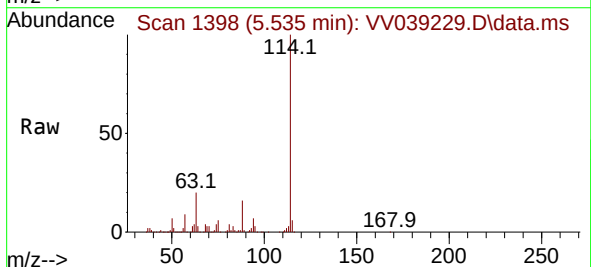
Tgt Ion: 114 Resp: 743567

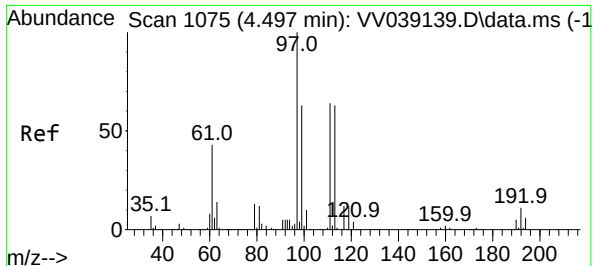
Ion Ratio Lower Upper

114 100

63 20.0 0.0 42.6

88 15.7 0.0 30.8



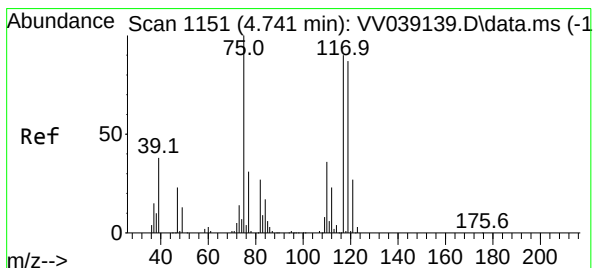
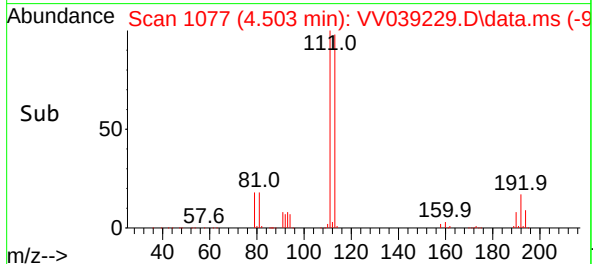
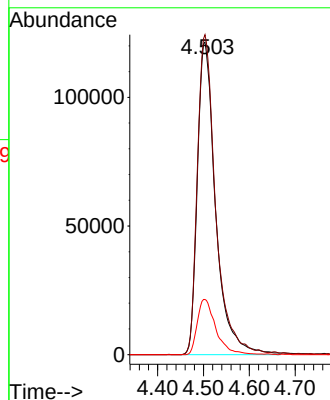
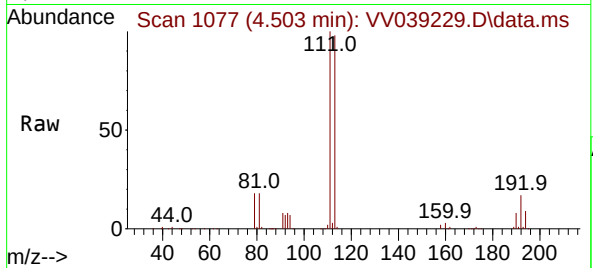


#35
 Dibromofluoromethane
 Concen: 56.243 ug/l
 RT: 4.503 min Scan# 1107
 Delta R.T. 0.006 min
 Lab File: VV039229.D
 Acq: 29 Sep 2025 14:16

Instrument :
 MSVOA_V
 ClientSampleId :

Tgt Ion:113 Resp: 336205

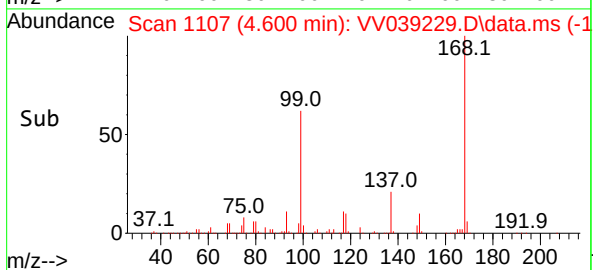
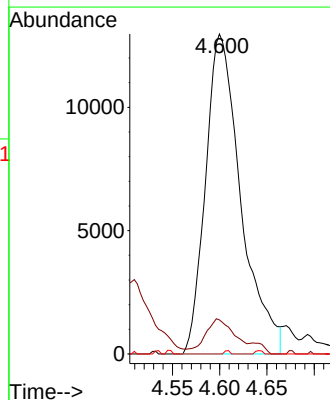
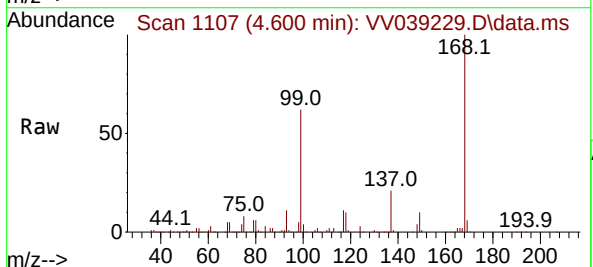
Ion	Ratio	Lower	Upper
113	100		
111	101.8	82.4	123.6
192	18.0	13.8	20.8

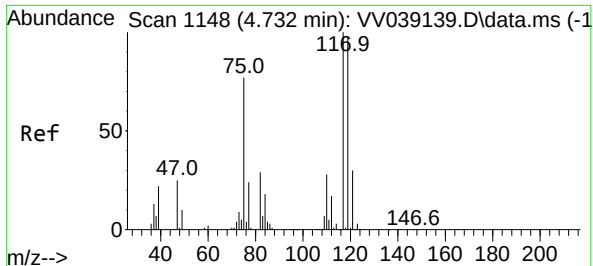


#36
 1,1-Dichloropropene
 Concen: 3.725 ug/l
 RT: 4.600 min Scan# 1107
 Delta R.T. -0.141 min
 Lab File: VV039229.D
 Acq: 29 Sep 2025 14:16

Tgt Ion: 75 Resp: 33667

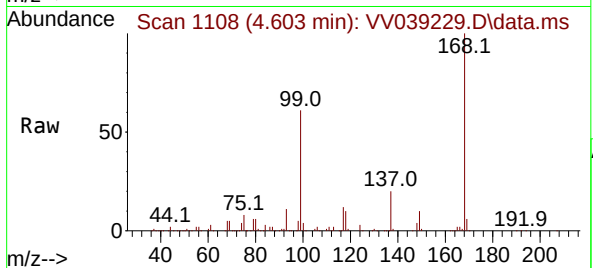
Ion	Ratio	Lower	Upper
75	100		
110	6.8	18.1	54.1#
77	0.1	24.8	37.2#



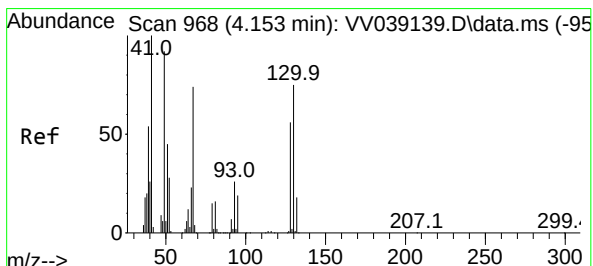
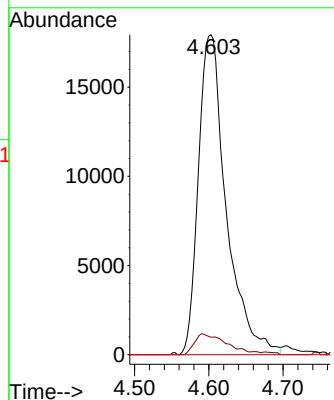
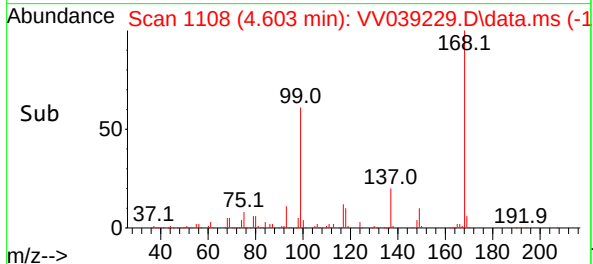


#38
Carbon Tetrachloride
Concen: 4.244 ug/l
RT: 4.603 min Scan# 1148
Delta R.T. -0.129 min
Lab File: VV039229.D
Acq: 29 Sep 2025 14:16

Instrument :
MSVOA_V
ClientSampleId :

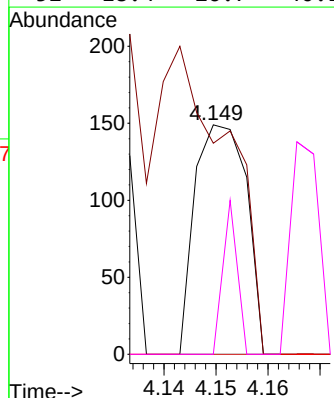
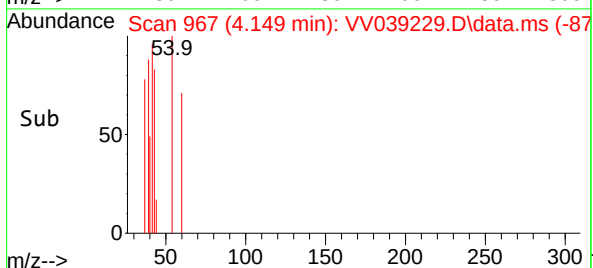
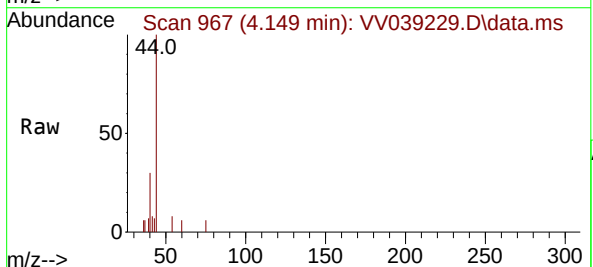


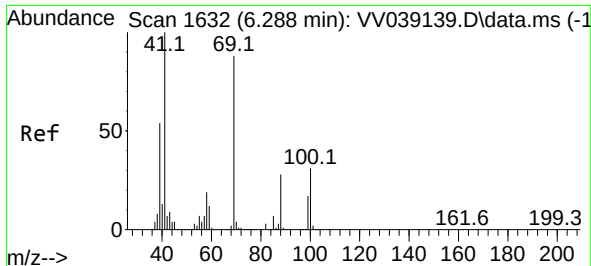
Tgt Ion:117 Resp: 46878
Ion Ratio Lower Upper
117 100
119 5.4 77.2 115.8#
121 0.0 24.2 36.2#



#41
Methacrylonitrile
Concen: 1.930 ug/l
RT: 4.149 min Scan# 967
Delta R.T. -0.004 min
Lab File: VV039229.D
Acq: 29 Sep 2025 14:16

Tgt Ion: 41 Resp: 103
Ion Ratio Lower Upper
41 100
39 0.0 42.2 63.2#
67 0.0 67.9 101.9#
52 18.4 26.7 40.1#





#49

1,4-Dioxane

Concen: 0.640 ug/l

RT: 6.210 min Scan# 1

Delta R.T. -0.077 min

Lab File: VV039229.D

Acq: 29 Sep 2025 14:16

Instrument :

MSVOA_V

ClientSampleId :

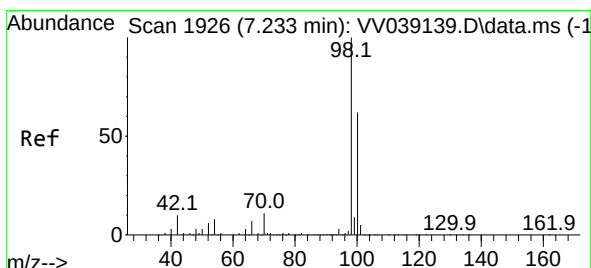
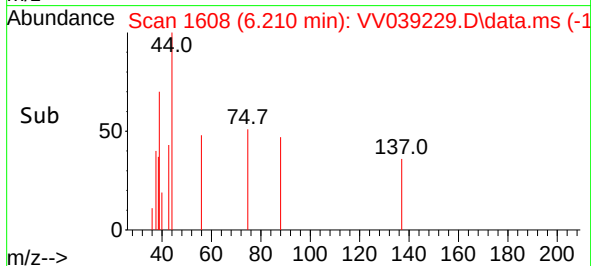
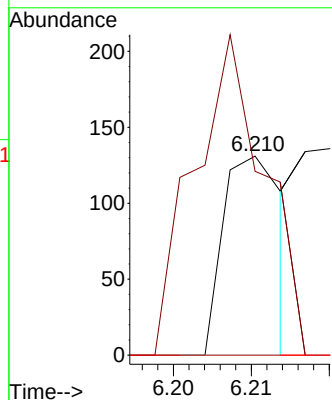
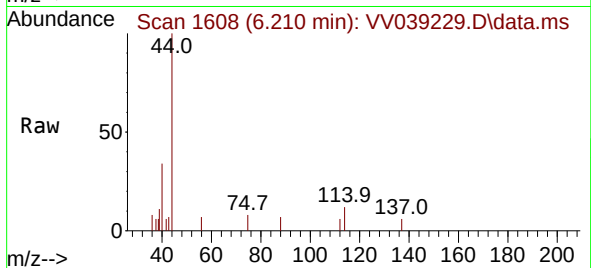
Tgt Ion: 88 Resp: 70

Ion Ratio Lower Upper

88 100

43 190.0 25.1 37.7#

58 0.0 53.6 80.4#



#50

Toluene-d8

Concen: 46.001 ug/l

RT: 7.239 min Scan# 1928

Delta R.T. 0.006 min

Lab File: VV039229.D

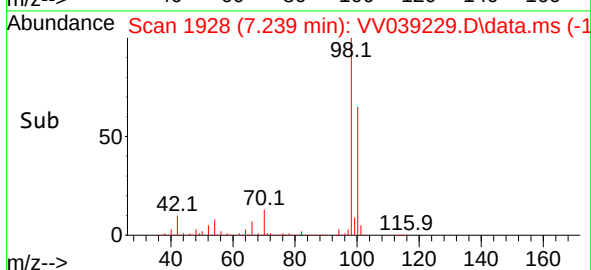
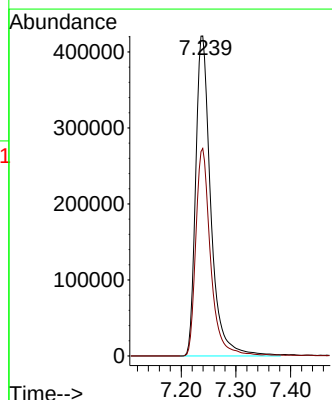
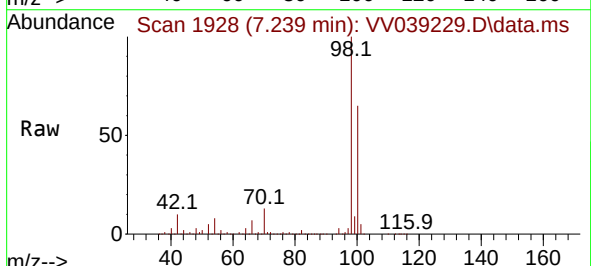
Acq: 29 Sep 2025 14:16

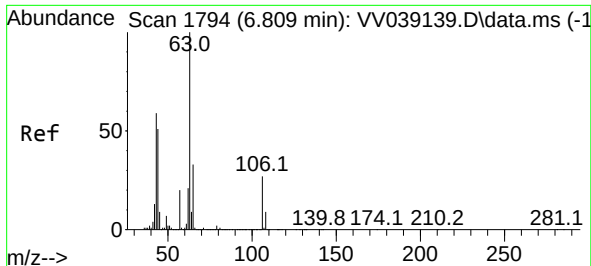
Tgt Ion: 98 Resp: 807620

Ion Ratio Lower Upper

98 100

100 63.3 52.2 78.2

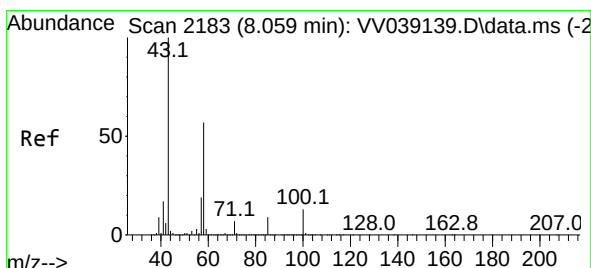
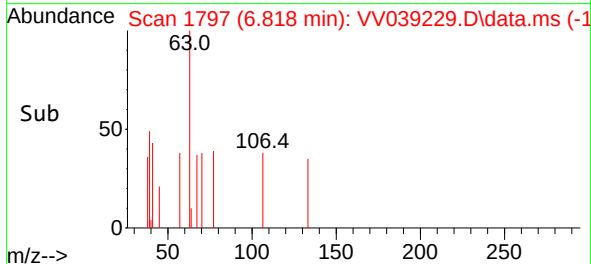
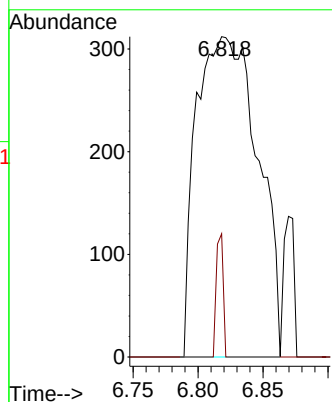
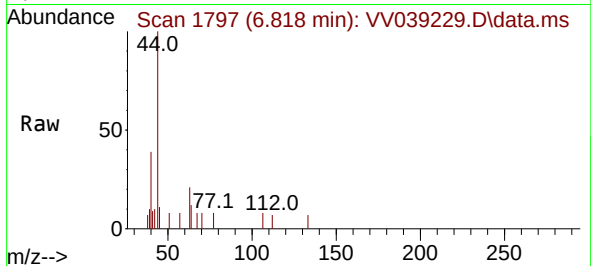




#58
2-Chloroethyl Vinyl ether
Concen: 9.815 ug/l
RT: 6.818 min Scan# 11
Delta R.T. 0.009 min
Lab File: VV039229.D
Acq: 29 Sep 2025 14:16

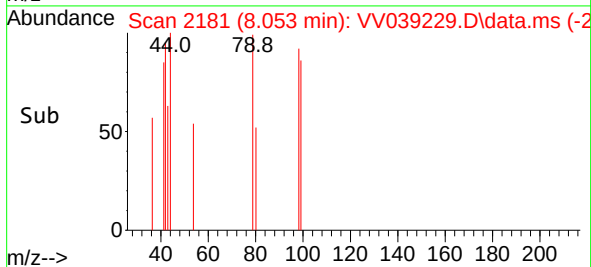
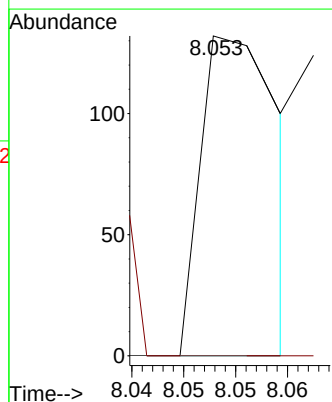
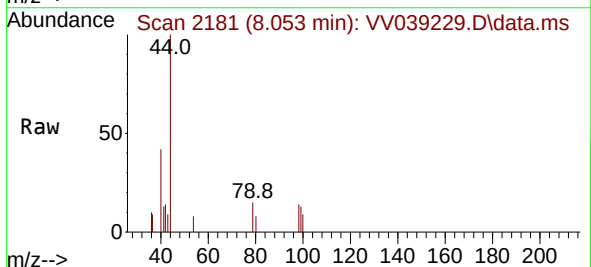
Instrument :
MSVOA_V
ClientSampleId :

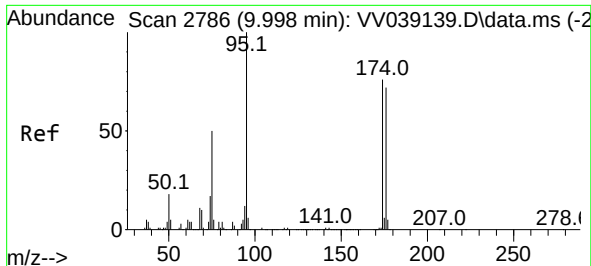
Tgt Ion: 63 Resp: 1026
Ion Ratio Lower Upper
63 100
106 4.3 22.1 33.1#



#59
2-Hexanone
Concen: 2.334 ug/l
RT: 8.053 min Scan# 2181
Delta R.T. -0.006 min
Lab File: VV039229.D
Acq: 29 Sep 2025 14:16

Tgt Ion: 43 Resp: 69
Ion Ratio Lower Upper
43 100
58 62.3 28.3 85.0





#62

4-Bromofluorobenzene

Concen: 44.992 ug/l

RT: 10.001 min Scan# 21

Delta R.T. 0.003 min

Lab File: VV039229.D

Acq: 29 Sep 2025 14:16

Instrument :

MSVOA_V

ClientSampleId :

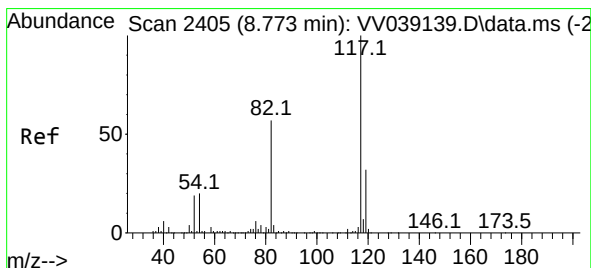
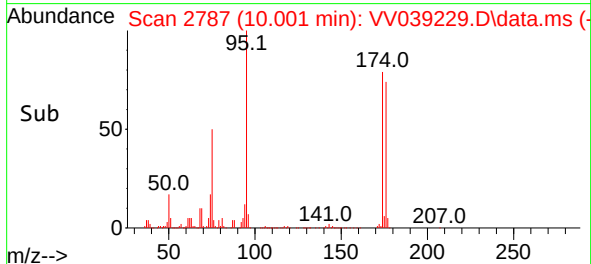
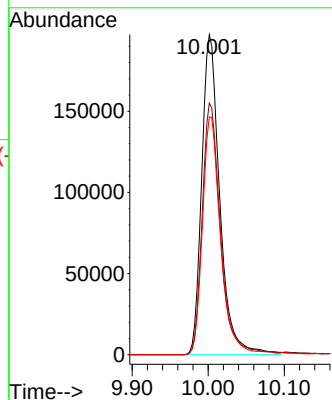
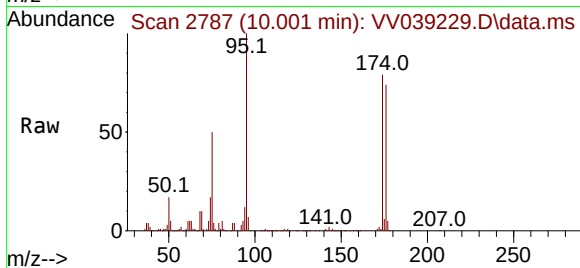
Tgt Ion: 95 Resp: 325181

Ion Ratio Lower Upper

95 100

174 80.1 0.0 150.4

176 74.6 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: VV039229.D

Acq: 29 Sep 2025 14:16

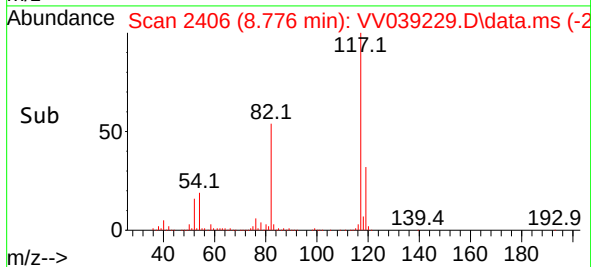
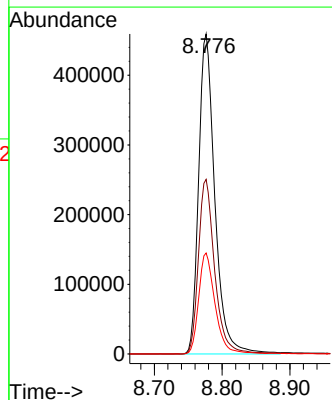
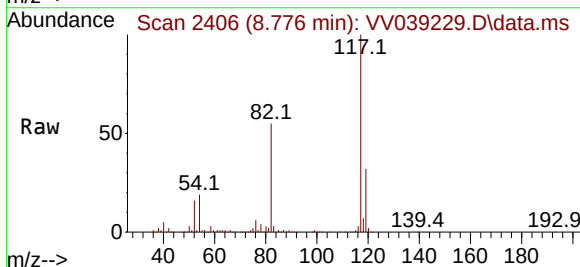
Tgt Ion: 117 Resp: 762813

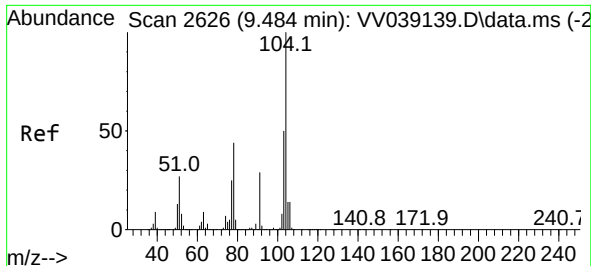
Ion Ratio Lower Upper

117 100

82 54.5 45.4 68.2

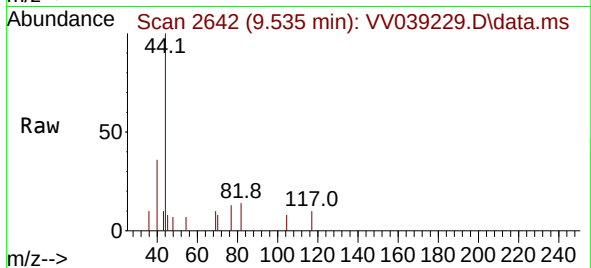
119 31.6 25.6 38.4



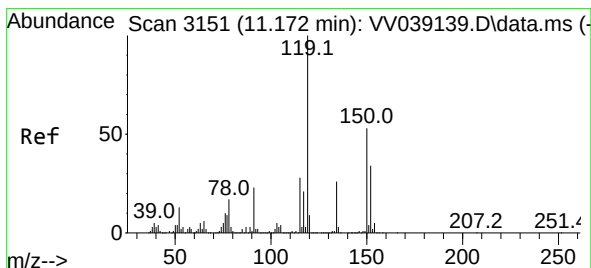
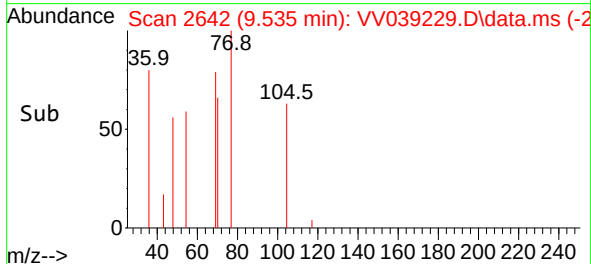
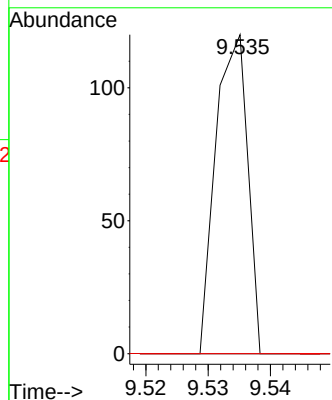


#70
Styrene
Concen: 1.563 ug/l
RT: 9.535 min Scan# 21
Delta R.T. 0.051 min
Lab File: VV039229.D
Acq: 29 Sep 2025 14:16

Instrument :
MSVOA_V
ClientSampleId :

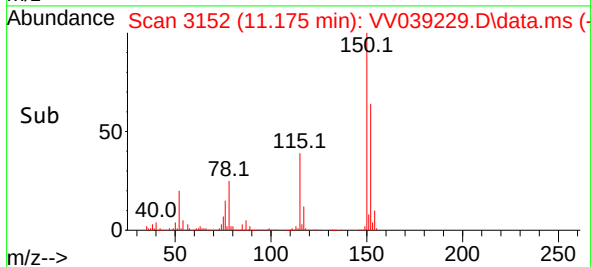
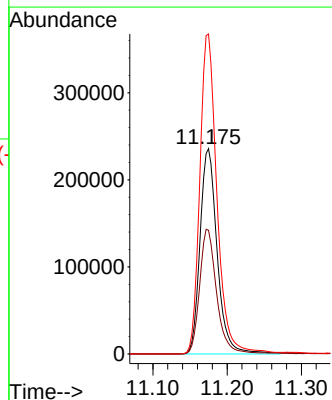
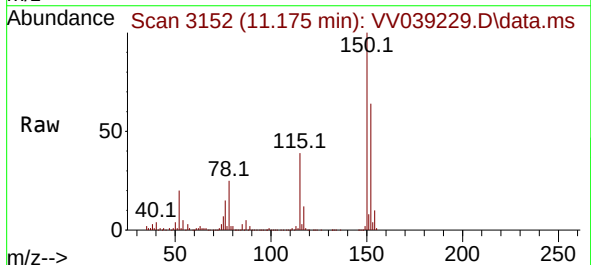


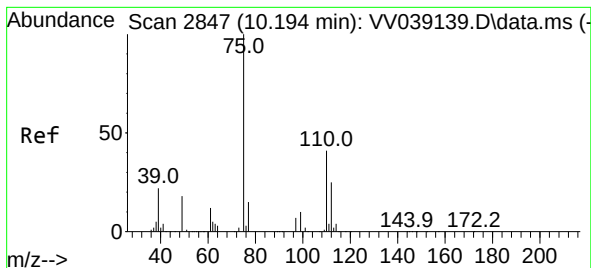
Tgt Ion:104 Resp: 43
Ion Ratio Lower Upper
104 100
78 0.0 39.8 59.6#
103 0.0 43.4 65.2#



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.175 min Scan# 3152
Delta R.T. 0.003 min
Lab File: VV039229.D
Acq: 29 Sep 2025 14:16

Tgt Ion:152 Resp: 378816
Ion Ratio Lower Upper
152 100
115 60.7 44.8 134.4
150 155.9 0.0 353.8





#76

1,2,3-Trichloropropane

Concen: 18.721 ug/l

RT: 10.001 min Scan# 2787

Delta R.T. -0.193 min

Lab File: VV039229.D

Acq: 29 Sep 2025 14:16

Instrument :

MSVOA_V

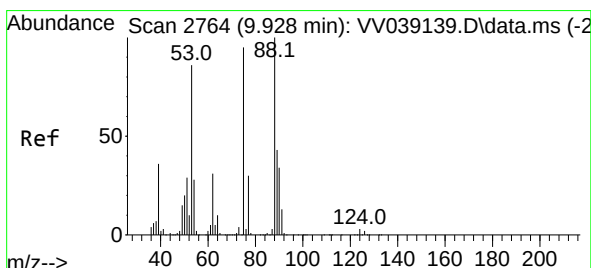
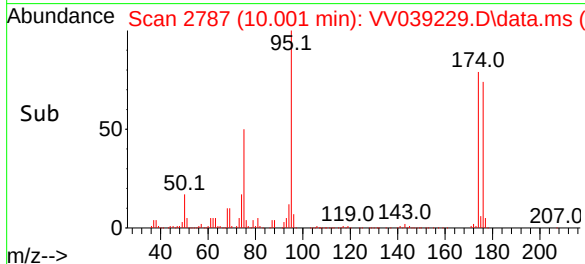
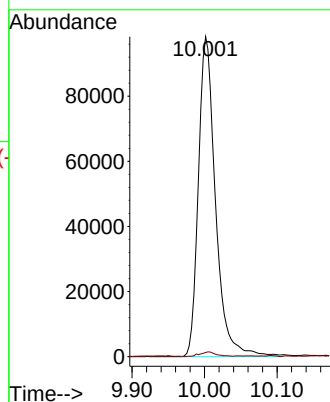
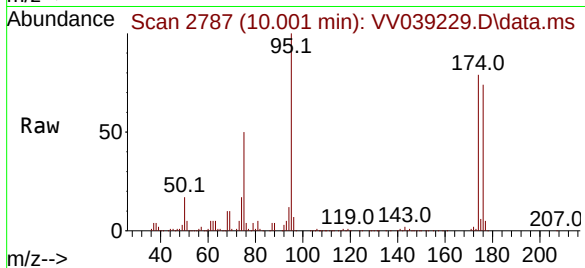
ClientSampleId :

Tgt Ion: 75 Resp: 161469

Ion Ratio Lower Upper

75 100

77 1.5 11.3 33.8#



#81

trans-1,4-Dichloro-2-butene

Concen: 44.943 ug/l

RT: 10.001 min Scan# 2787

Delta R.T. 0.074 min

Lab File: VV039229.D

Acq: 29 Sep 2025 14:16

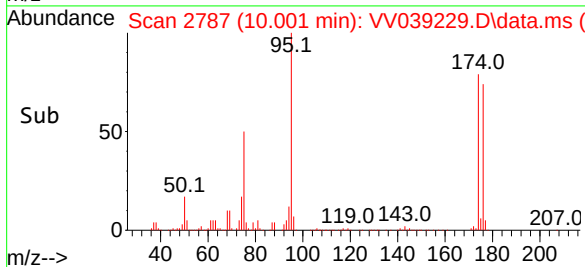
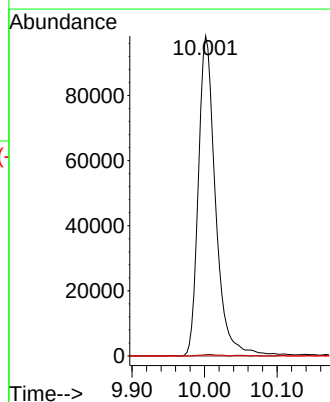
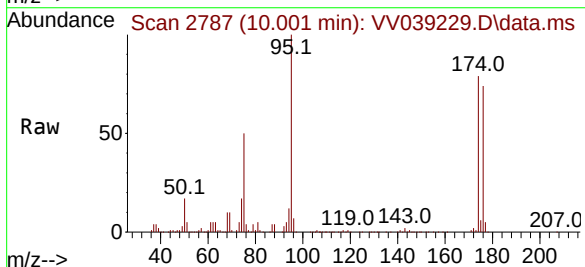
Tgt Ion: 75 Resp: 161469

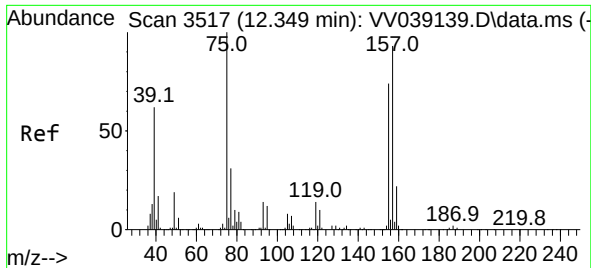
Ion Ratio Lower Upper

75 100

53 0.5 72.5 108.7#

89 0.0 37.2 55.8#





#92

1,2-Dibromo-3-Chloropropane

Concen: Below Cal

RT: 12.361 min Scan# 3517

Delta R.T. 0.012 min

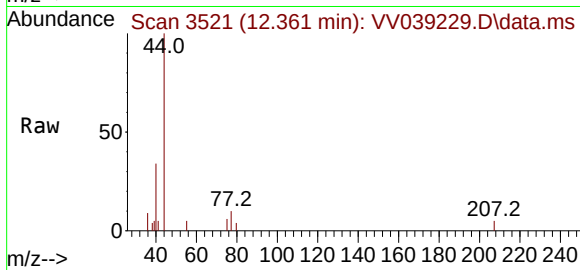
Lab File: VV039229.D

Acq: 29 Sep 2025 14:16

Instrument :

MSVOA_V

ClientSampleId :



Tgt Ion: 75 Resp: 55

Ion Ratio Lower Upper

75 100

155 0.0 38.6 115.8#

157 0.0 49.5 148.3#

