

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV100325\
 Data File : VV039256.D
 Acq On : 03 Oct 2025 17:41
 Operator : SY/MD
 Sample : Q3201-01
 Misc : 5.0mL/MSVOA_V/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 MW6

Quant Time: Oct 04 01:14:44 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)

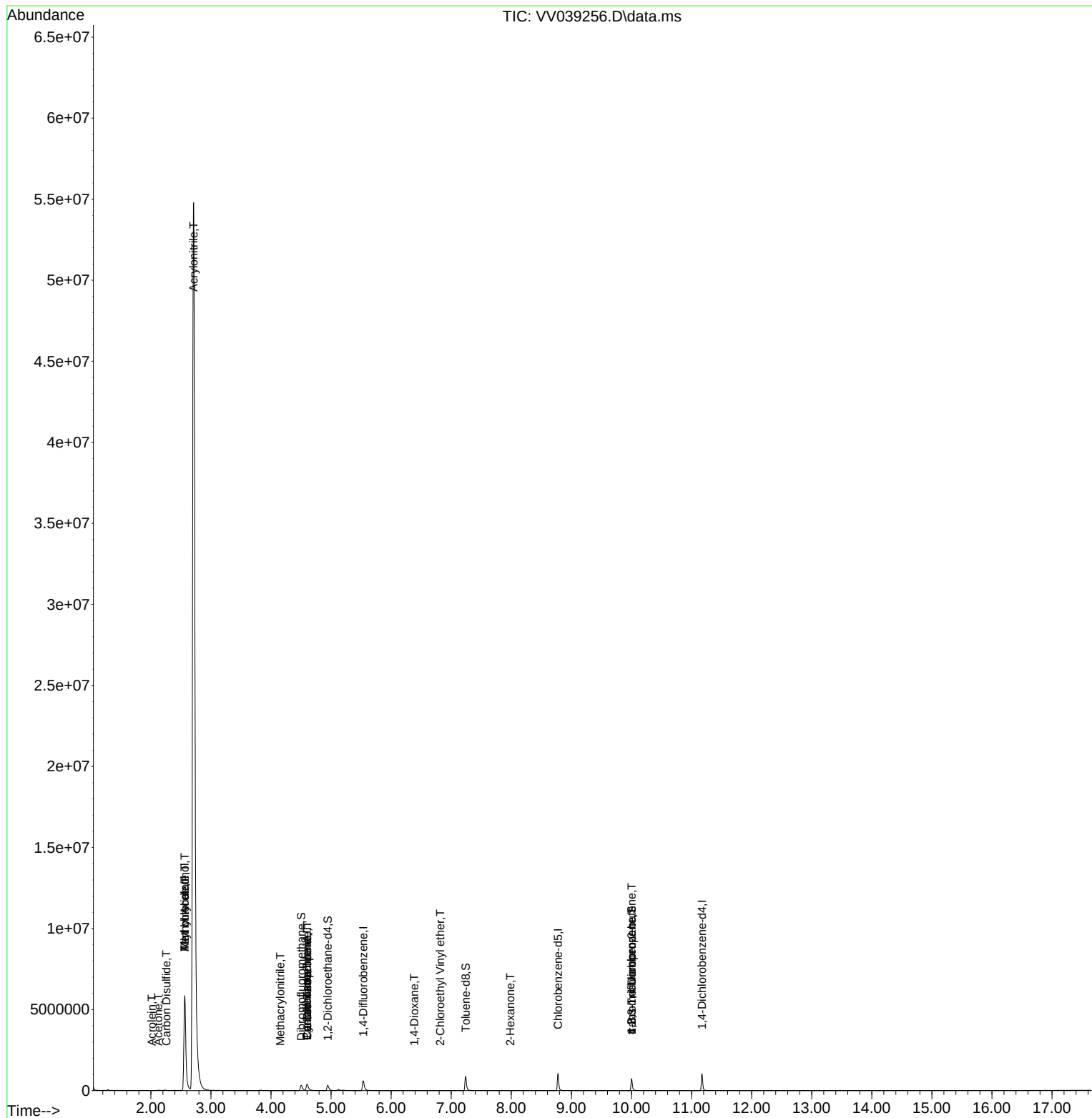
Internal Standards						
1) Pentafluorobenzene	4.600	168	338723	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	5.535	114	596501	50.000	ug/l	0.00
63) Chlorobenzene-d5	8.776	117	602719	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.175	152	285289	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.944	65	295630	60.304	ug/l	0.00
Spiked Amount	50.000	Range	81 - 118	Recovery	=	120.600%#
35) Dibromofluoromethane	4.503	113	276319	57.622	ug/l	0.00
Spiked Amount	50.000	Range	80 - 119	Recovery	=	115.240%
50) Toluene-d8	7.240	98	631507	44.838	ug/l	0.00
Spiked Amount	50.000	Range	89 - 112	Recovery	=	89.680%
62) 4-Bromofluorobenzene	10.002	95	253846	43.781	ug/l	0.00
Spiked Amount	50.000	Range	85 - 114	Recovery	=	87.560%
Target Compounds						
						Qvalue
6) Chloroethane	1.558	64	131	Below Cal	#	5
11) Tert butyl alcohol	2.564	59	7717590	7448.531	ug/l	99
13) Acrolein	2.015	56	197	1.096	ug/l #	15
14) Allyl chloride	2.564	41	1613181	176.833	ug/l #	60
15) Acrylonitrile	2.712	53	946471	284.957	ug/l #	30
16) Acetone	2.124	43	24177	3.247	ug/l	99
17) Carbon Disulfide	2.256	76	4570	0.293	ug/l	95
18) Methyl Acetate	2.564	43	1045291	143.909	ug/l #	52
20) Methylene Chloride	2.465	84	846	Below Cal	#	75
31) Cyclohexane	4.597	56	3552	0.406	ug/l #	1
36) 1,1-Dichloropropene	4.603	75	25630	3.535	ug/l #	45
38) Carbon Tetrachloride	4.603	117	36778	4.151	ug/l #	16
41) Methacrylonitrile	4.156	41	135	1.943	ug/l #	31
49) 1,4-Dioxane	6.384	88	40	0.456	ug/l #	1
58) 2-Chloroethyl Vinyl ether	6.815	63	86	9.643	ug/l #	47
59) 2-Hexanone	7.986	43	103	2.342	ug/l	88
76) 1,2,3-Trichloropropane	10.002	75	121525	18.709	ug/l #	57
81) trans-1,4-Dichloro-2-b...	10.002	75	121525	44.914	ug/l #	13
92) 1,2-Dibromo-3-Chloropr...	12.352	75	140	Below Cal	#	5

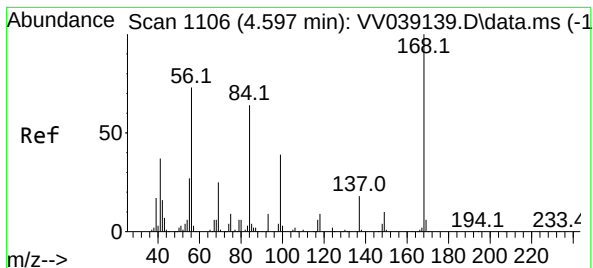
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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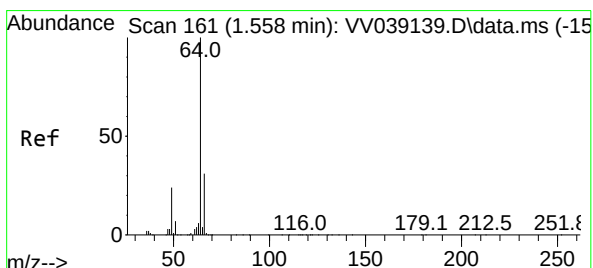
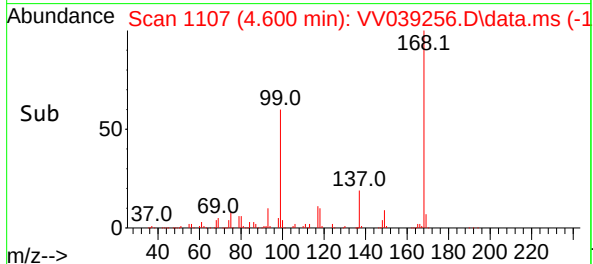
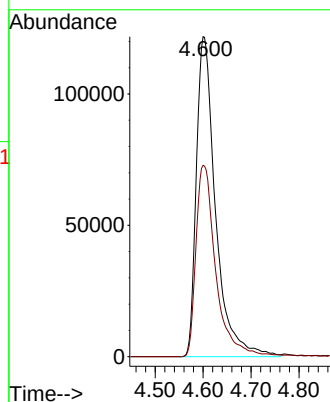
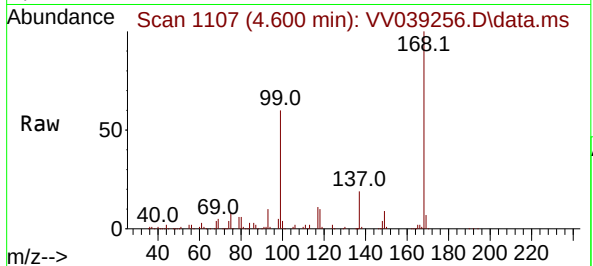




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 4.600 min Scan# 1106
Delta R.T. 0.003 min
Lab File: VV039256.D
Acq: 03 Oct 2025 17:41

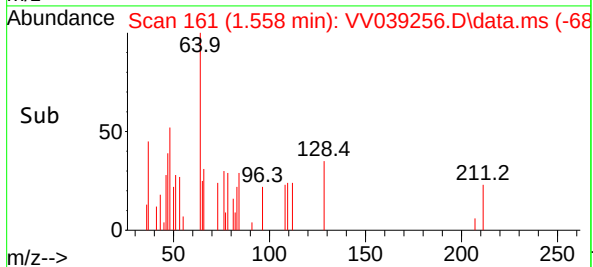
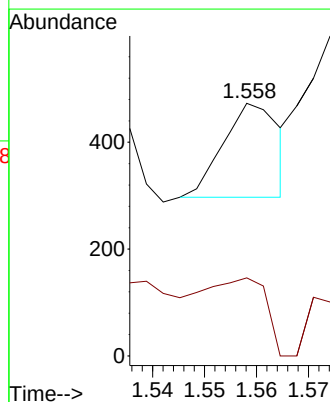
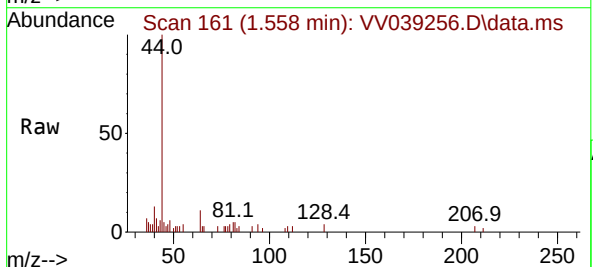
Instrument :
MSVOA_V
ClientSampleId :
MW6

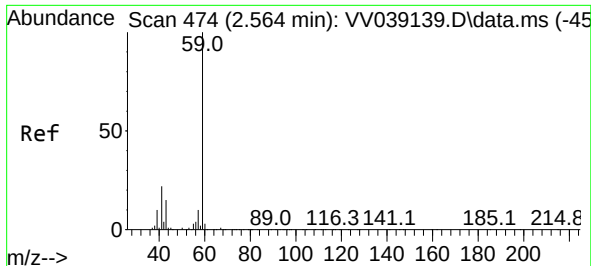
Tgt Ion:168 Resp: 338723
Ion Ratio Lower Upper
168 100
99 59.8 49.6 74.4



#6
Chloroethane
Concen: Below Cal
RT: 1.558 min Scan# 161
Delta R.T. 0.000 min
Lab File: VV039256.D
Acq: 03 Oct 2025 17:41

Tgt Ion: 64 Resp: 131
Ion Ratio Lower Upper
64 100
66 83.0 24.6 36.8#





#11

Tert butyl alcohol

Concen: 7448.531 ug/l

RT: 2.564 min Scan# 41

Delta R.T. 0.000 min

Lab File: VV039256.D

Acq: 03 Oct 2025 17:41

Instrument :

MSVOA_V

ClientSampleId :

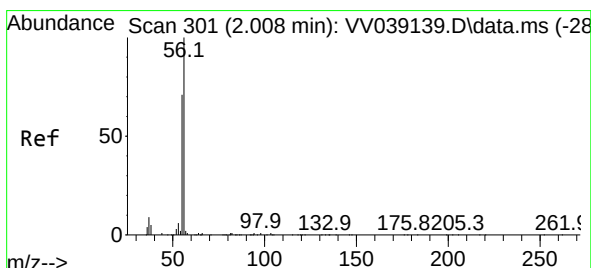
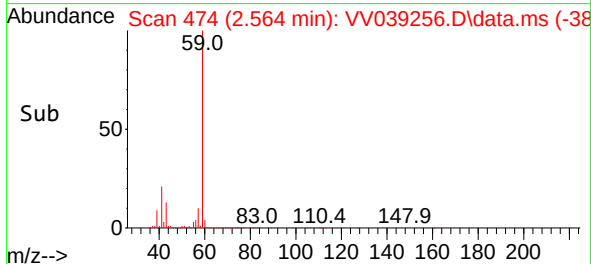
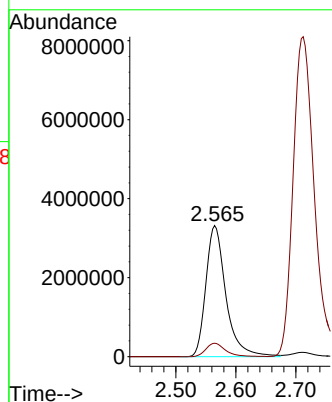
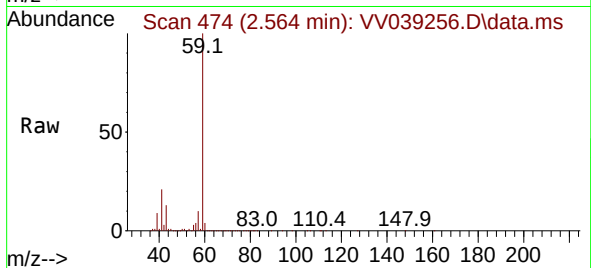
MW6

Tgt Ion: 59 Resp: 7717590

Ion Ratio Lower Upper

59 100

57 10.2 7.8 11.8



#13

Acrolein

Concen: 1.096 ug/l

RT: 2.015 min Scan# 303

Delta R.T. 0.006 min

Lab File: VV039256.D

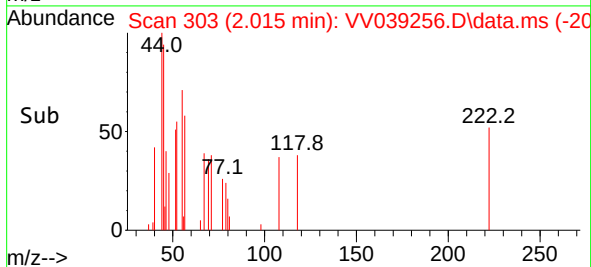
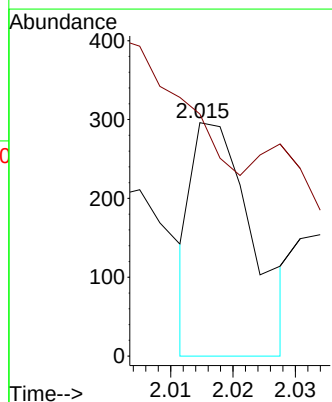
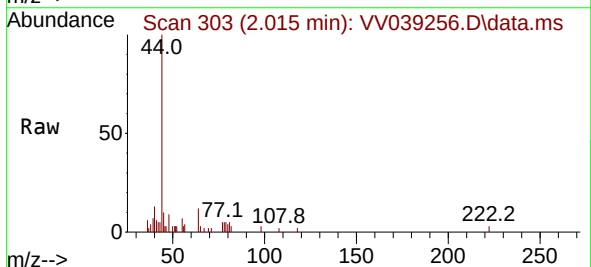
Acq: 03 Oct 2025 17:41

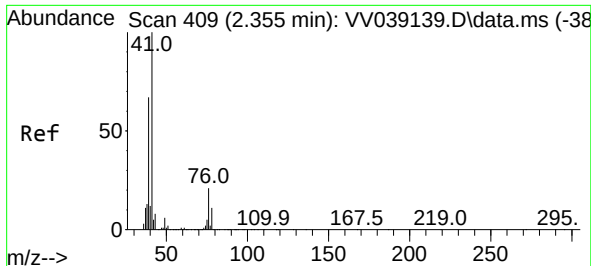
Tgt Ion: 56 Resp: 197

Ion Ratio Lower Upper

56 100

55 0.0 56.2 84.4#

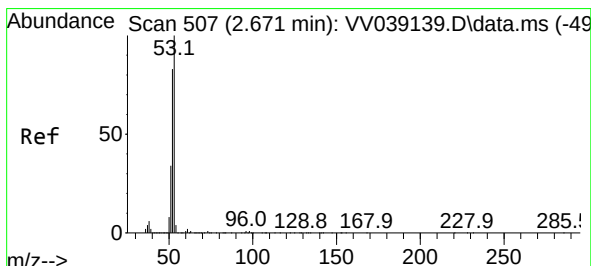
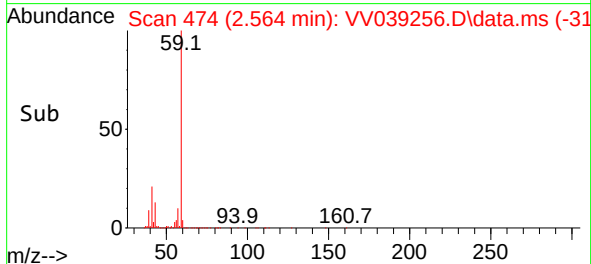
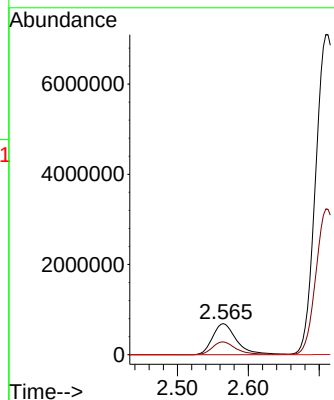
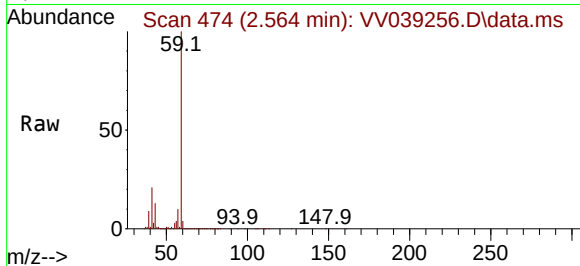




#14
 Allyl chloride
 Concen: 176.833 ug/l
 RT: 2.564 min Scan# 41
 Delta R.T. 0.209 min
 Lab File: VV039256.D
 Acq: 03 Oct 2025 17:41

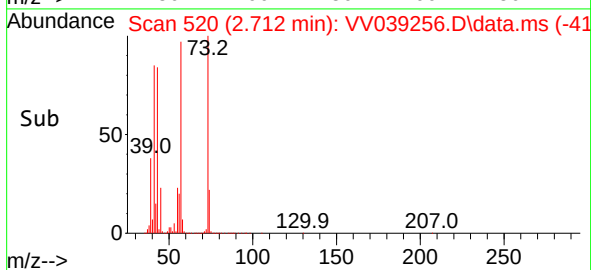
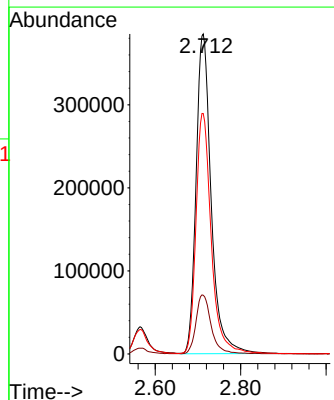
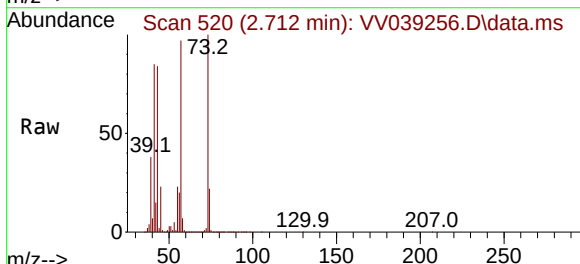
Instrument :
 MSVOA_V
 ClientSampleId :
 MW6

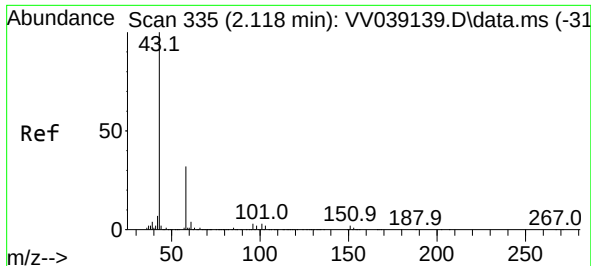
Tgt Ion: 41 Resp: 1613181
 Ion Ratio Lower Upper
 41 100
 39 41.4 51.0 76.6#
 76 0.0 28.2 42.4#



#15
 Acrylonitrile
 Concen: 284.957 ug/l
 RT: 2.712 min Scan# 520
 Delta R.T. 0.042 min
 Lab File: VV039256.D
 Acq: 03 Oct 2025 17:41

Tgt Ion: 53 Resp: 946471
 Ion Ratio Lower Upper
 53 100
 52 18.4 66.1 99.1#
 51 75.3 28.5 42.7#

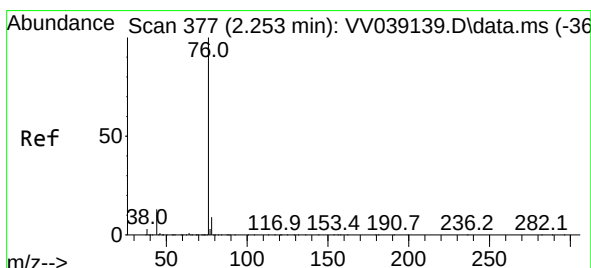
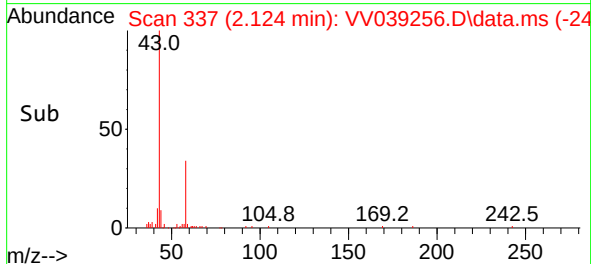
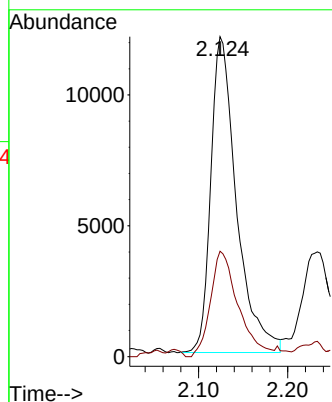
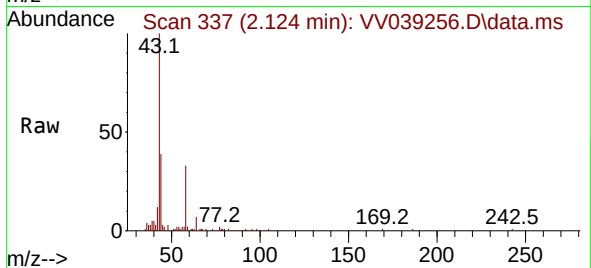




#16
Acetone
Concen: 3.247 ug/l
RT: 2.124 min Scan# 31
Delta R.T. 0.006 min
Lab File: VV039256.D
Acq: 03 Oct 2025 17:41

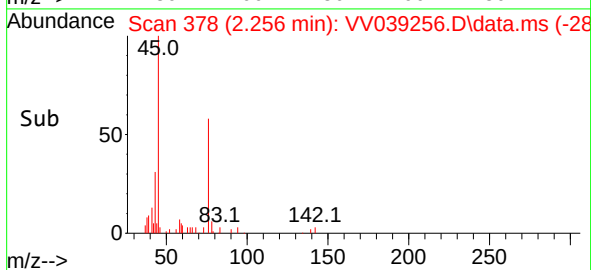
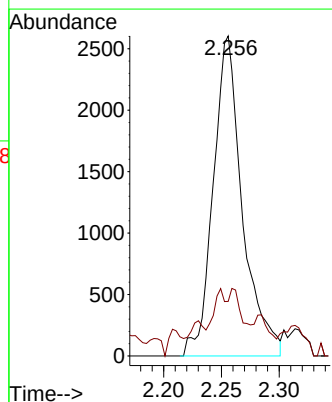
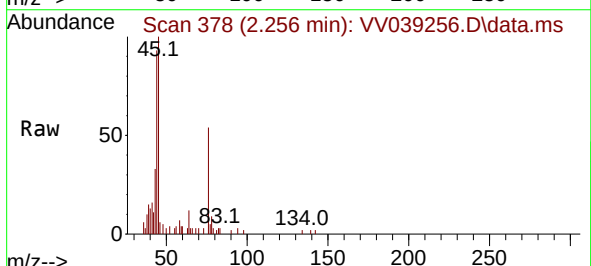
Instrument :
MSVOA_V
ClientSampleId :
MW6

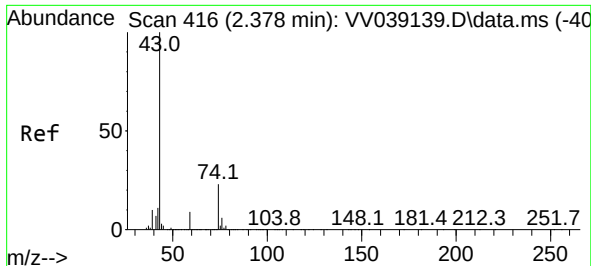
Tgt Ion: 43 Resp: 24177
Ion Ratio Lower Upper
43 100
58 31.7 25.8 38.6



#17
Carbon Disulfide
Concen: 0.293 ug/l
RT: 2.256 min Scan# 378
Delta R.T. 0.003 min
Lab File: VV039256.D
Acq: 03 Oct 2025 17:41

Tgt Ion: 76 Resp: 4570
Ion Ratio Lower Upper
76 100
78 11.0 7.4 11.0

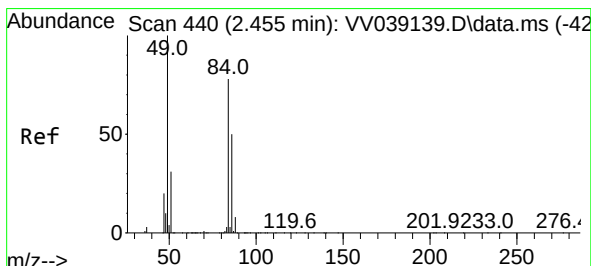
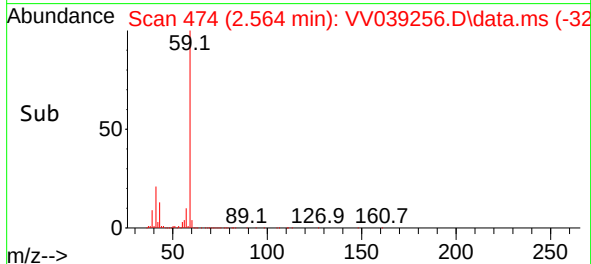
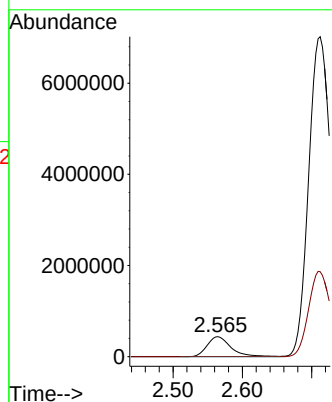
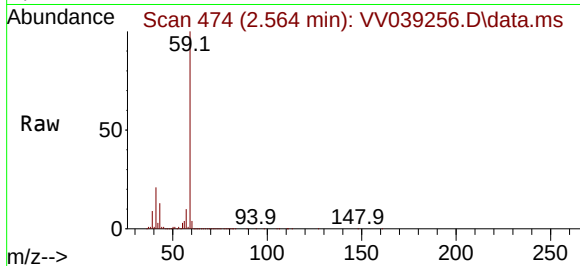




#18
Methyl Acetate
Concen: 143.909 ug/l
RT: 2.564 min Scan# 416
Delta R.T. 0.187 min
Lab File: VV039256.D
Acq: 03 Oct 2025 17:41

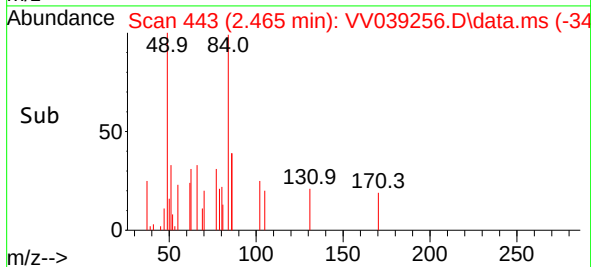
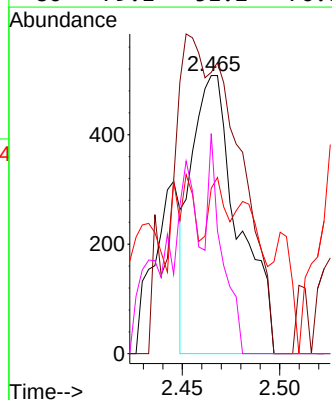
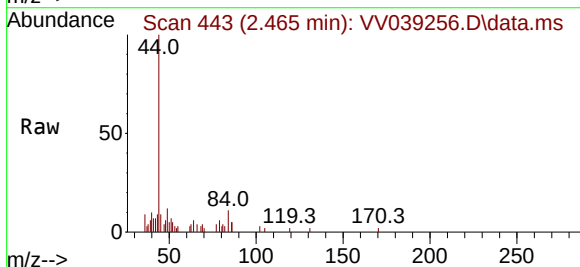
Instrument :
MSVOA_V
ClientSampleId :
MW6

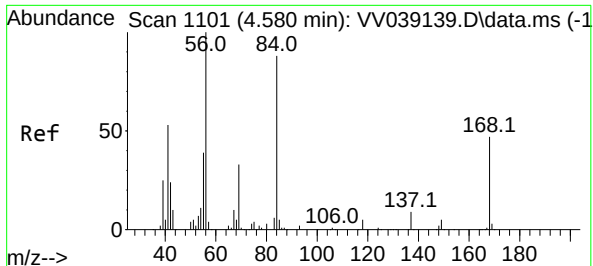
Tgt Ion: 43 Resp: 1045291
Ion Ratio Lower Upper
43 100
74 0.0 18.6 27.8#



#20
Methylene Chloride
Concen: Below Cal
RT: 2.465 min Scan# 443
Delta R.T. 0.010 min
Lab File: VV039256.D
Acq: 03 Oct 2025 17:41

Tgt Ion: 84 Resp: 846
Ion Ratio Lower Upper
84 100
49 101.2 102.8 154.2#
51 15.7 31.9 47.9#
86 79.1 51.2 76.8#





#31

Cyclohexane

Concen: 0.406 ug/l

RT: 4.597 min Scan# 1106

Delta R.T. 0.016 min

Lab File: VV039256.D

Acq: 03 Oct 2025 17:41

Instrument :

MSVOA_V

ClientSampleId :

MW6

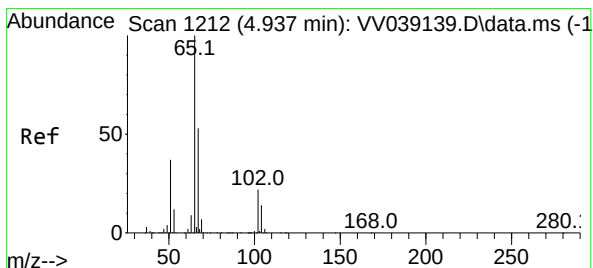
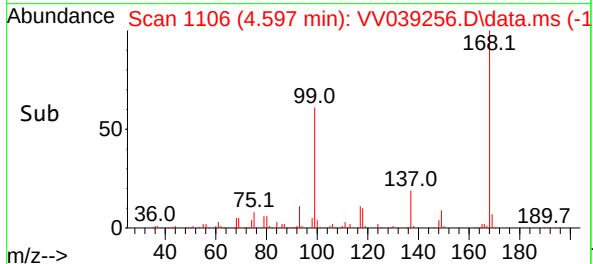
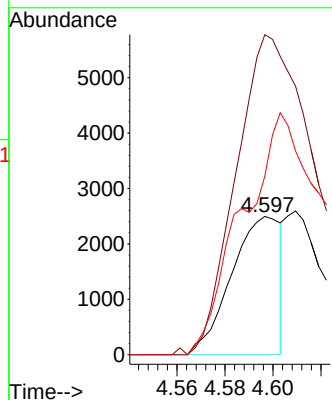
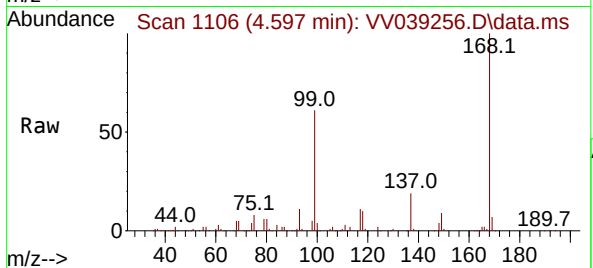
Tgt Ion: 56 Resp: 3552

Ion Ratio Lower Upper

56 100

69 226.7 26.2 39.2#

84 129.3 70.3 105.5#



#33

1,2-Dichloroethane-d4

Concen: 60.304 ug/l

RT: 4.944 min Scan# 1214

Delta R.T. 0.006 min

Lab File: VV039256.D

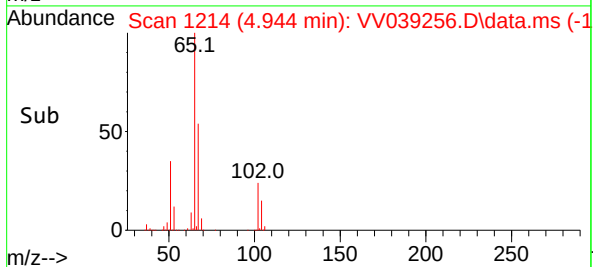
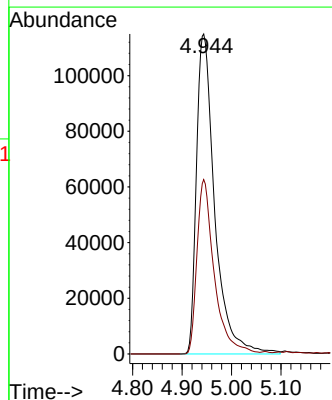
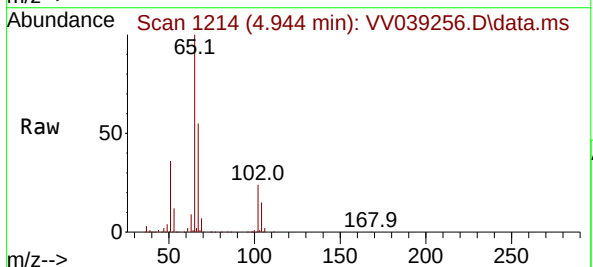
Acq: 03 Oct 2025 17:41

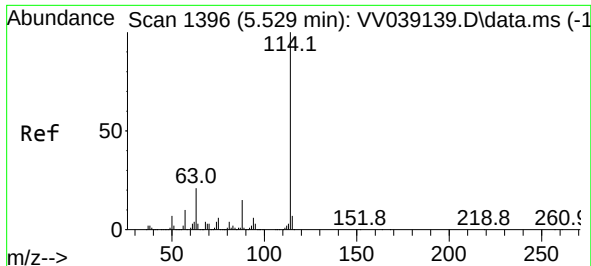
Tgt Ion: 65 Resp: 295630

Ion Ratio Lower Upper

65 100

67 51.8 0.0 107.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.535 min Scan# 11

Delta R.T. 0.006 min

Lab File: VV039256.D

Acq: 03 Oct 2025 17:41

Instrument :

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ClientSampleId :

MW6

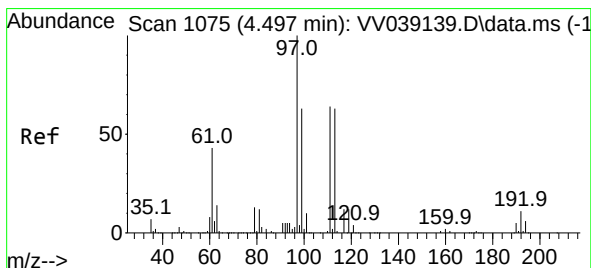
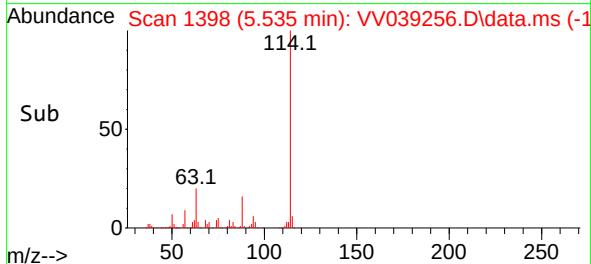
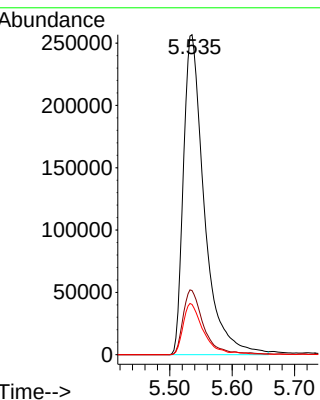
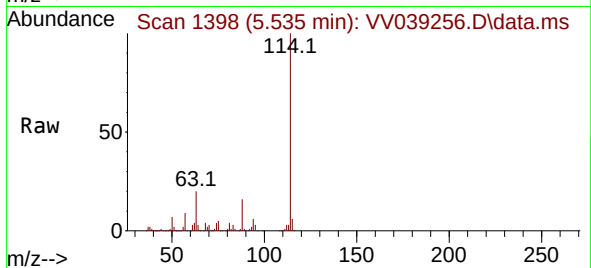
Tgt Ion:114 Resp: 596501

Ion Ratio Lower Upper

114 100

63 20.1 0.0 42.6

88 15.7 0.0 30.8



#35

Dibromofluoromethane

Concen: 57.622 ug/l

RT: 4.503 min Scan# 1077

Delta R.T. 0.006 min

Lab File: VV039256.D

Acq: 03 Oct 2025 17:41

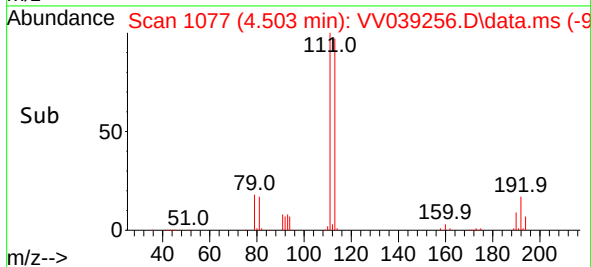
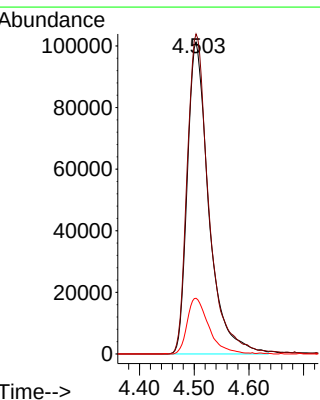
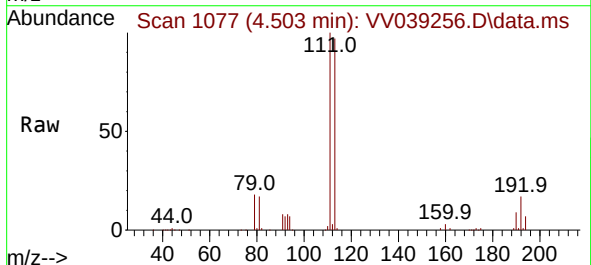
Tgt Ion:113 Resp: 276319

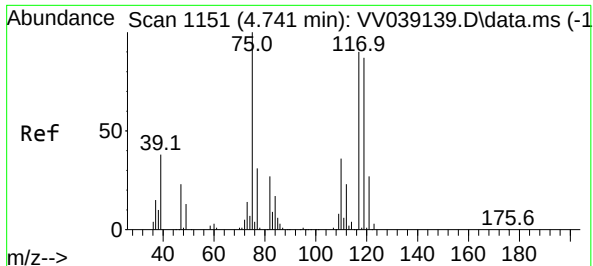
Ion Ratio Lower Upper

113 100

111 103.7 82.4 123.6

192 18.1 13.8 20.8





#36

1,1-Dichloropropene

Concen: 3.535 ug/l

RT: 4.603 min Scan# 1108

Delta R.T. -0.138 min

Lab File: VV039256.D

Acq: 03 Oct 2025 17:41

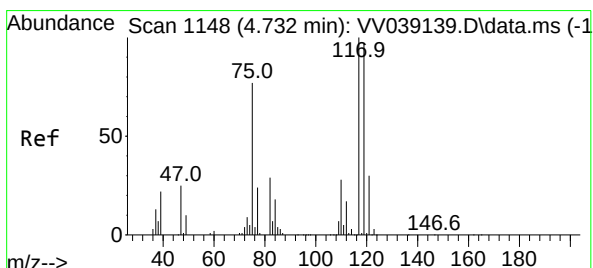
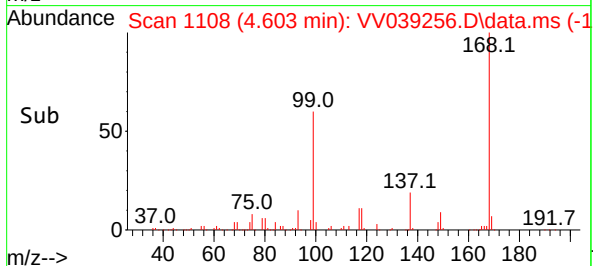
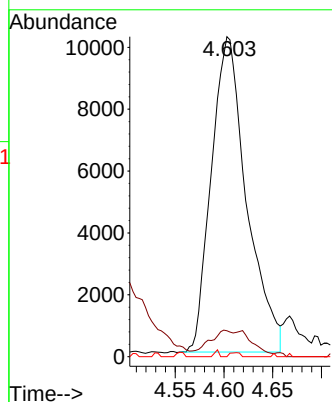
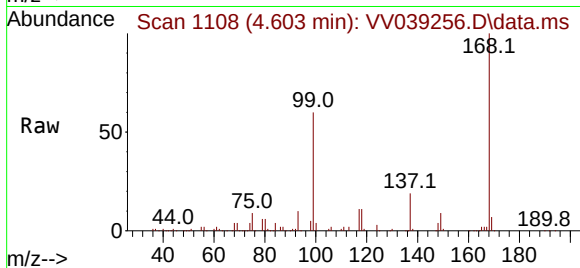
Instrument :

MSVOA_V

ClientSampleId :

MW6

Tgt Ion:	75	Resp:	25630
Ion	Ratio	Lower	Upper
75	100		
110	3.9	18.1	54.1#
77	0.3	24.8	37.2#



#38

Carbon Tetrachloride

Concen: 4.151 ug/l

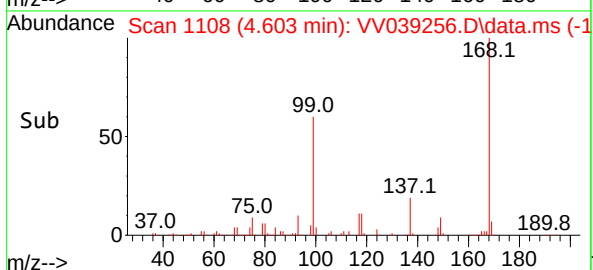
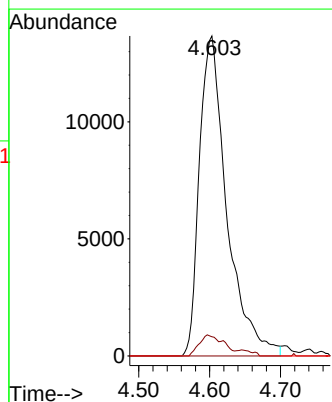
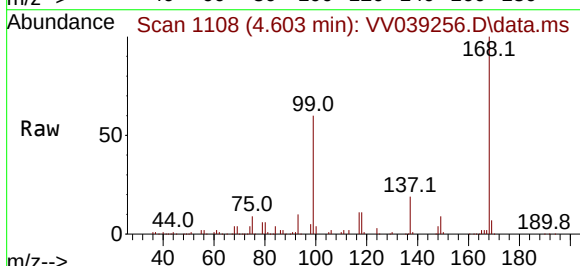
RT: 4.603 min Scan# 1108

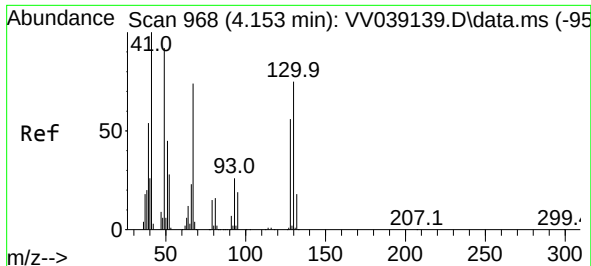
Delta R.T. -0.129 min

Lab File: VV039256.D

Acq: 03 Oct 2025 17:41

Tgt Ion:	117	Resp:	36778
Ion	Ratio	Lower	Upper
117	100		
119	6.0	77.2	115.8#
121	0.0	24.2	36.2#

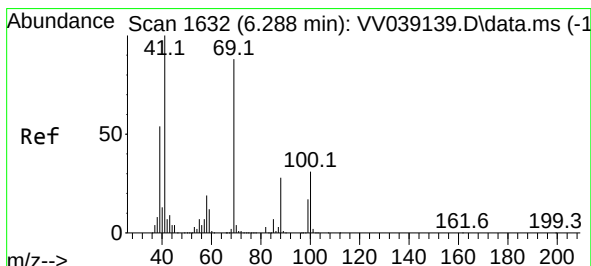
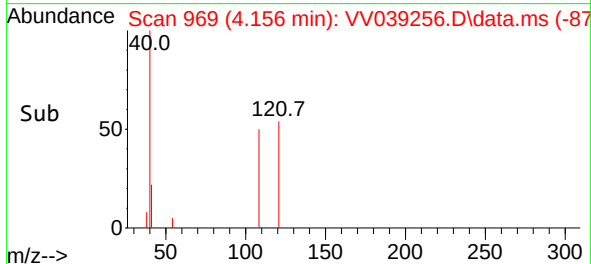
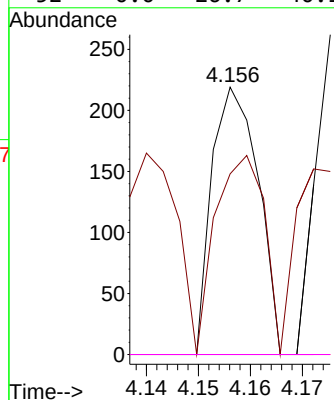
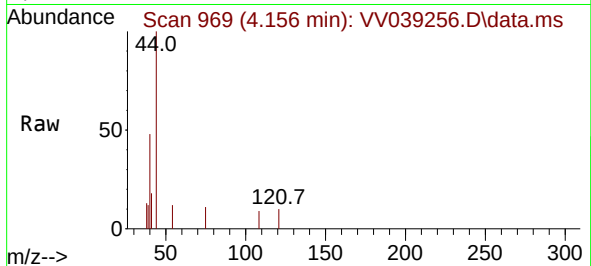




#41
Methacrylonitrile
Concen: 1.943 ug/l
RT: 4.156 min Scan# 968
Delta R.T. 0.003 min
Lab File: VV039256.D
Acq: 03 Oct 2025 17:41

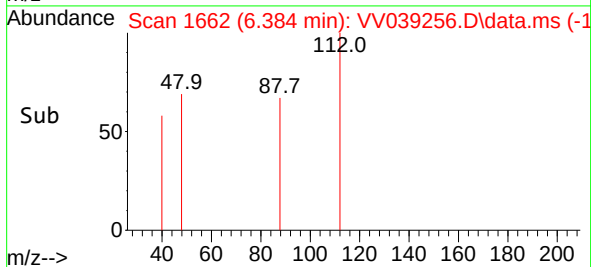
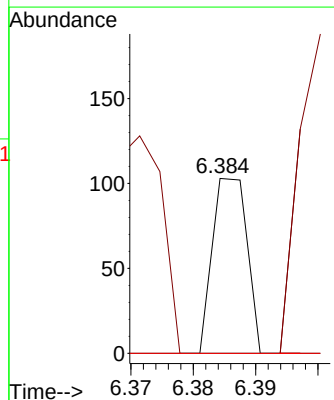
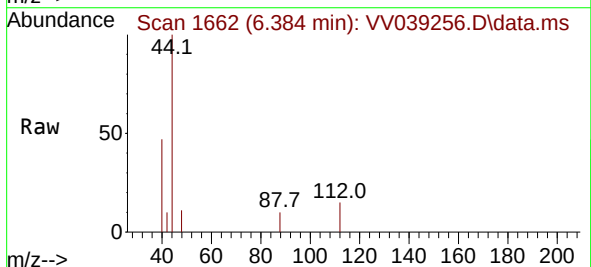
Instrument :
MSVOA_V
ClientSampleId :
MW6

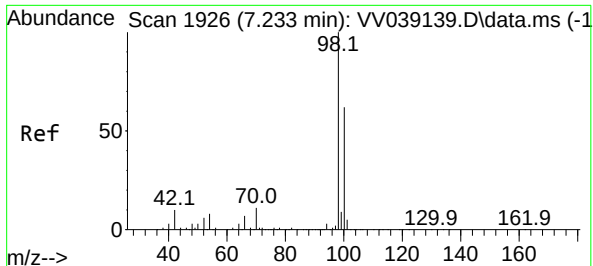
Tgt Ion:	41	Resp:	135
Ion	Ratio	Lower	Upper
41	100		
39	78.5	42.2	63.2#
67	0.0	67.9	101.9#
52	0.0	26.7	40.1#



#49
1,4-Dioxane
Concen: 0.456 ug/l
RT: 6.384 min Scan# 1662
Delta R.T. 0.097 min
Lab File: VV039256.D
Acq: 03 Oct 2025 17:41

Tgt Ion:	88	Resp:	40
Ion	Ratio	Lower	Upper
88	100		
43	170.0	25.1	37.7#
58	0.0	53.6	80.4#





#50

Toluene-d8

Concen: 44.838 ug/l

RT: 7.240 min Scan# 1926

Delta R.T. 0.006 min

Lab File: VV039256.D

Acq: 03 Oct 2025 17:41

Instrument :

MSVOA_V

ClientSampleId :

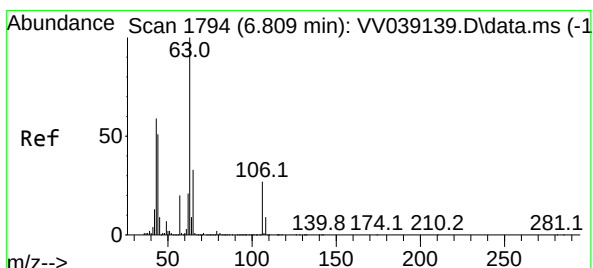
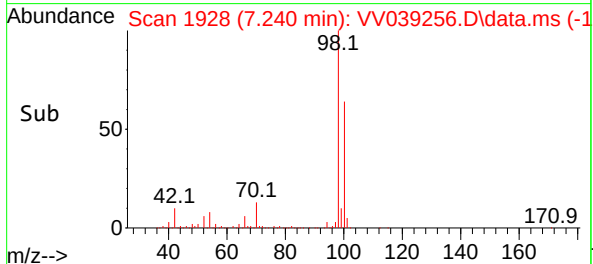
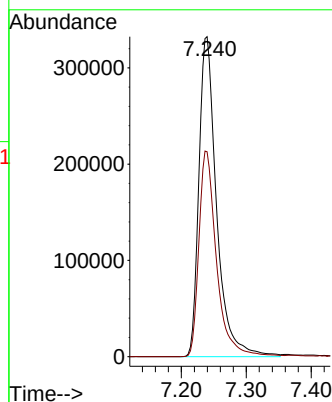
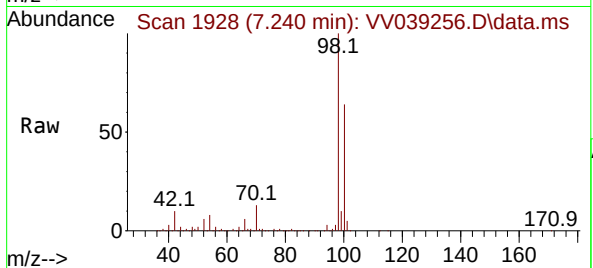
MW6

Tgt Ion: 98 Resp: 631507

Ion Ratio Lower Upper

98 100

100 64.0 52.2 78.2



#58

2-Chloroethyl Vinyl ether

Concen: 9.643 ug/l

RT: 6.815 min Scan# 1796

Delta R.T. 0.006 min

Lab File: VV039256.D

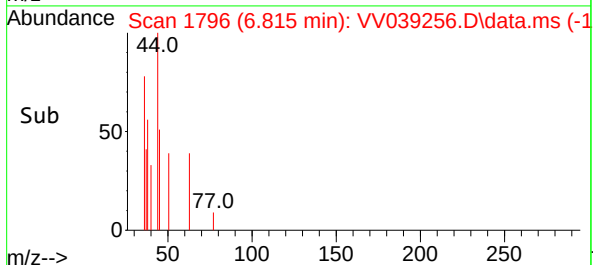
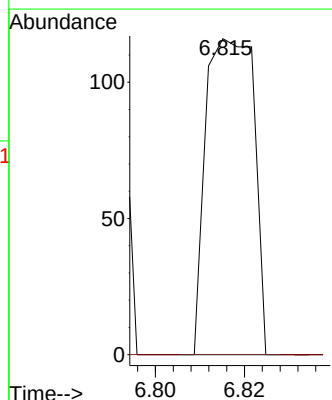
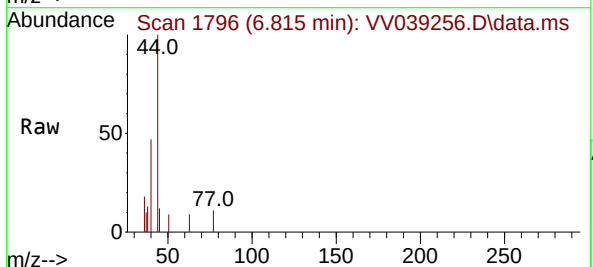
Acq: 03 Oct 2025 17:41

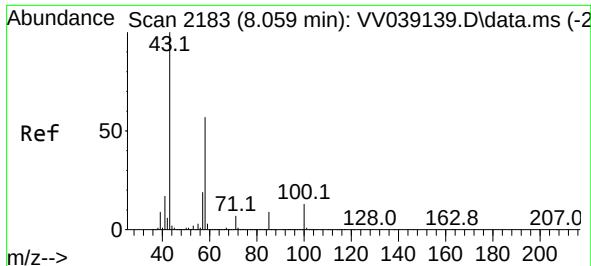
Tgt Ion: 63 Resp: 86

Ion Ratio Lower Upper

63 100

106 0.0 22.1 33.1#

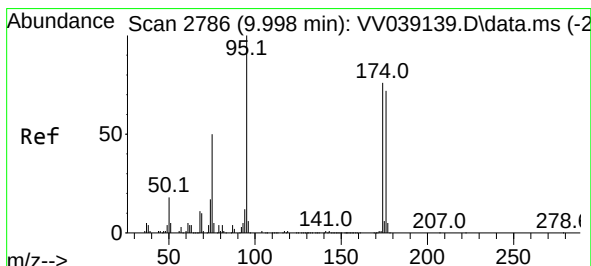
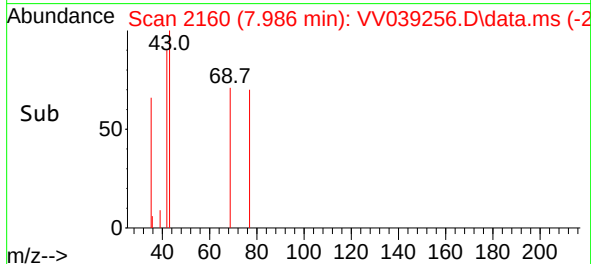
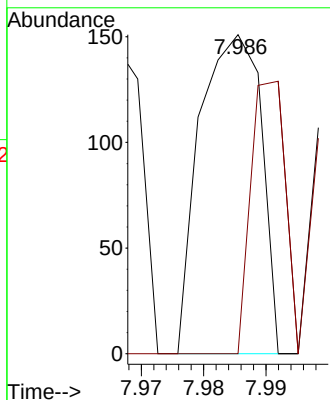
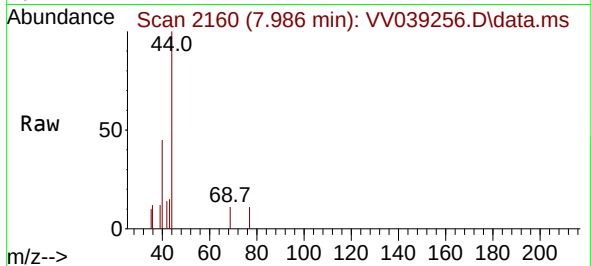




#59
2-Hexanone
Concen: 2.342 ug/l
RT: 7.986 min Scan# 2183
Delta R.T. -0.073 min
Lab File: VV039256.D
Acq: 03 Oct 2025 17:41

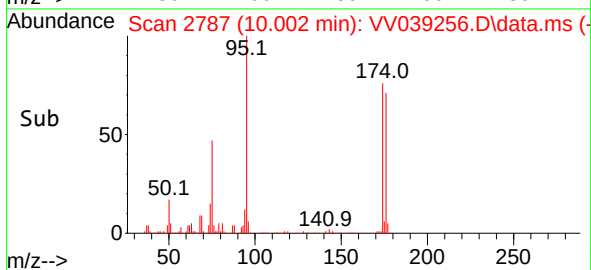
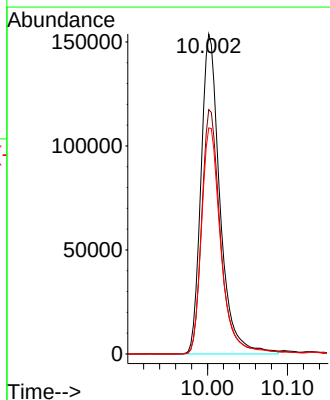
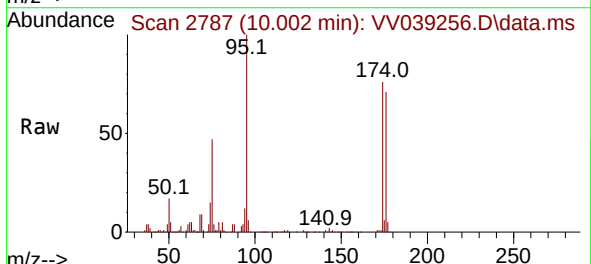
Instrument :
MSVOA_V
ClientSampleId :
MW6

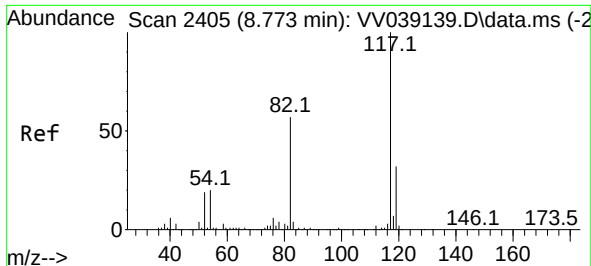
Tgt Ion: 43 Resp: 103
Ion Ratio Lower Upper
43 100
58 47.6 28.3 85.0



#62
4-Bromofluorobenzene
Concen: 43.781 ug/l
RT: 10.002 min Scan# 2787
Delta R.T. 0.003 min
Lab File: VV039256.D
Acq: 03 Oct 2025 17:41

Tgt Ion: 95 Resp: 253846
Ion Ratio Lower Upper
95 100
174 76.6 0.0 150.4
176 72.3 0.0 144.2

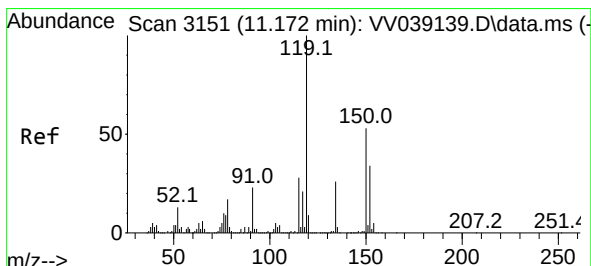
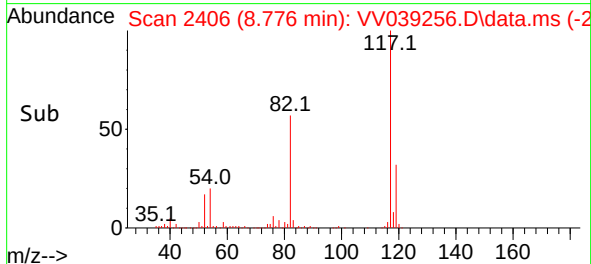
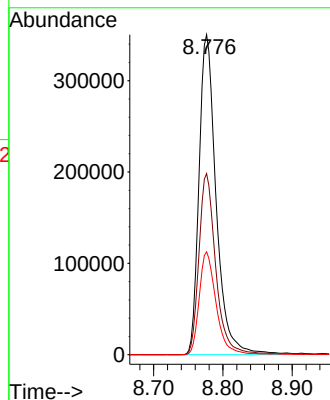
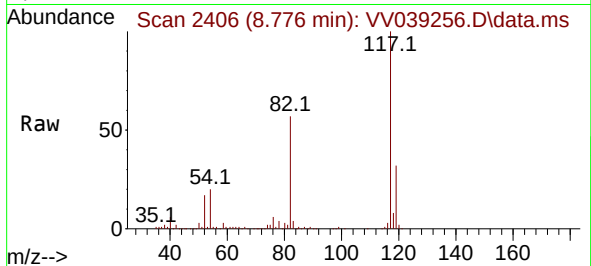




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 8.776 min Scan# 2406
Delta R.T. 0.003 min
Lab File: VV039256.D
Acq: 03 Oct 2025 17:41

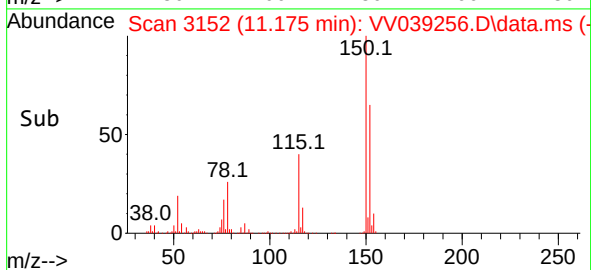
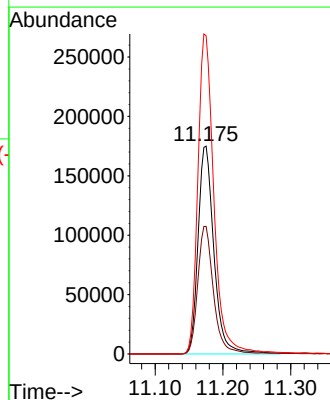
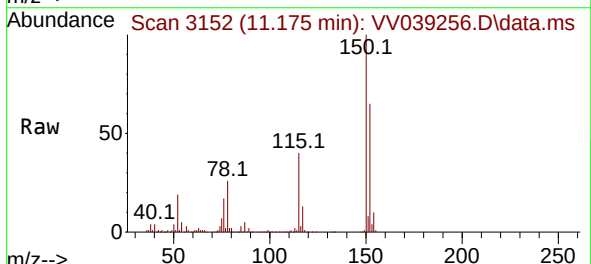
Instrument :
MSVOA_V
ClientSampleId :
MW6

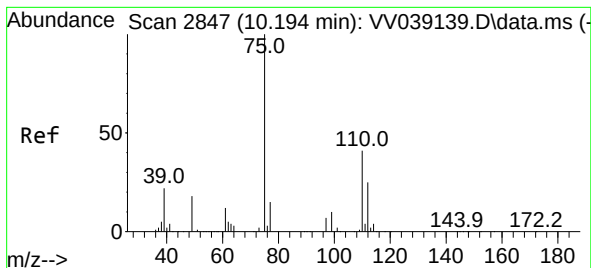
Tgt Ion:117 Resp: 602719
Ion Ratio Lower Upper
117 100
82 56.6 45.4 68.2
119 32.2 25.6 38.4



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.175 min Scan# 3152
Delta R.T. 0.003 min
Lab File: VV039256.D
Acq: 03 Oct 2025 17:41

Tgt Ion:152 Resp: 285289
Ion Ratio Lower Upper
152 100
115 60.6 44.8 134.4
150 156.1 0.0 353.8





#76

1,2,3-Trichloropropane

Concen: 18.709 ug/l

RT: 10.002 min Scan# 21

Delta R.T. -0.193 min

Lab File: VV039256.D

Acq: 03 Oct 2025 17:41

Instrument :

MSVOA_V

ClientSampleId :

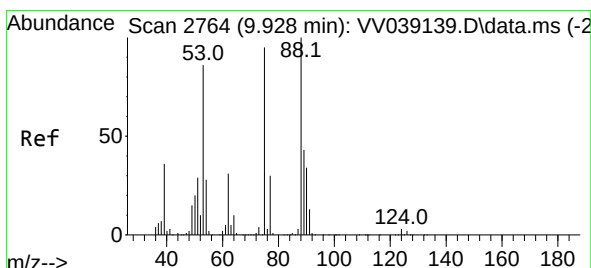
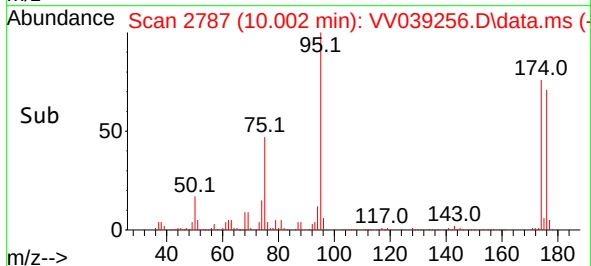
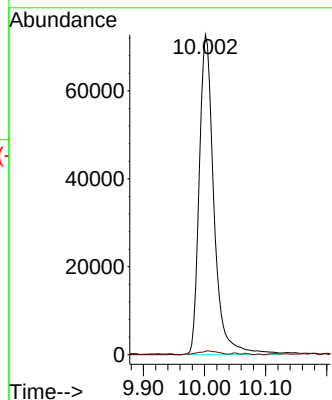
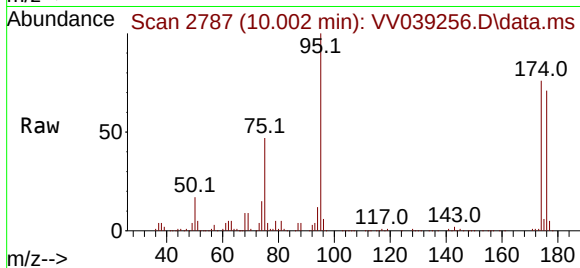
MW6

Tgt Ion: 75 Resp: 121525

Ion Ratio Lower Upper

75 100

77 1.6 11.3 33.8#



#81

trans-1,4-Dichloro-2-butene

Concen: 44.914 ug/l

RT: 10.002 min Scan# 2787

Delta R.T. 0.074 min

Lab File: VV039256.D

Acq: 03 Oct 2025 17:41

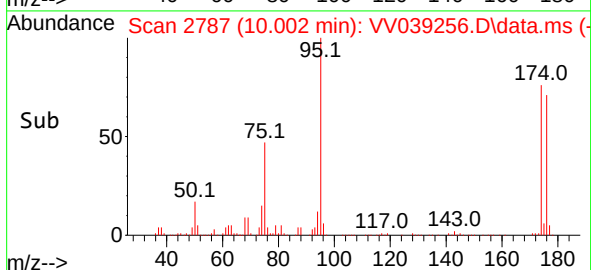
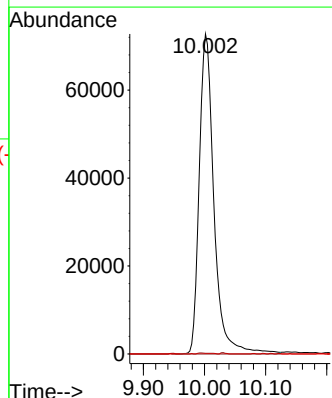
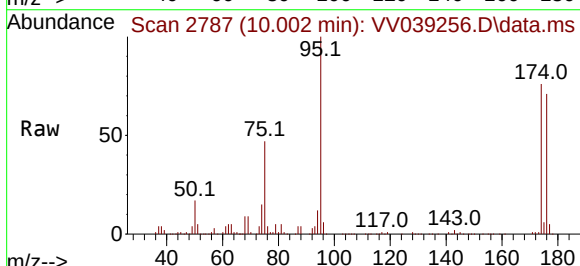
Tgt Ion: 75 Resp: 121525

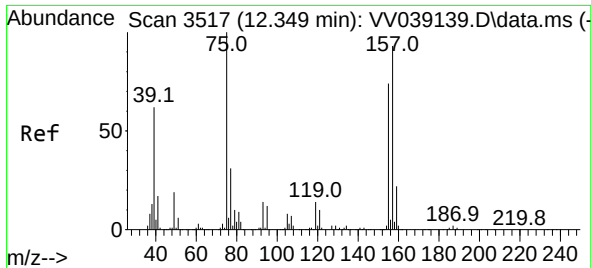
Ion Ratio Lower Upper

75 100

53 0.2 72.5 108.7#

89 0.0 37.2 55.8#





#92

1,2-Dibromo-3-Chloropropane

Concen: Below Cal

RT: 12.352 min Scan# 3

Delta R.T. 0.003 min

Lab File: VV039256.D

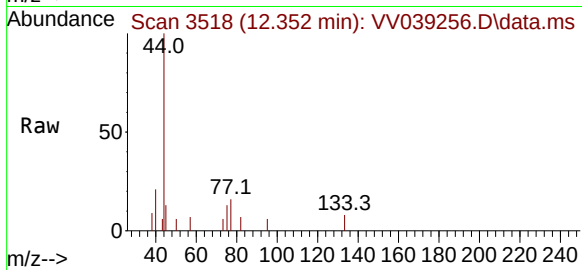
Acq: 03 Oct 2025 17:41

Instrument :

MSVOA_V

ClientSampleId :

MW6



Tgt Ion: 75 Resp: 140

Ion Ratio Lower Upper

75 100

155 0.0 38.6 115.8#

157 0.0 49.5 148.3#

