

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092425\
 Data File : VV039156.D
 Acq On : 24 Sep 2025 16:38
 Operator : SY/MD
 Sample : VIBLK
 Misc : 5.0mL/MSVOA_V/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 VIBLK

Quant Time: Sep 25 08:18:21 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 24 08:08:08 2025
 Response via : Initial Calibration

Compound	R.T.	T.Q	Ion	Response	Conc	Units	Dev(Min)

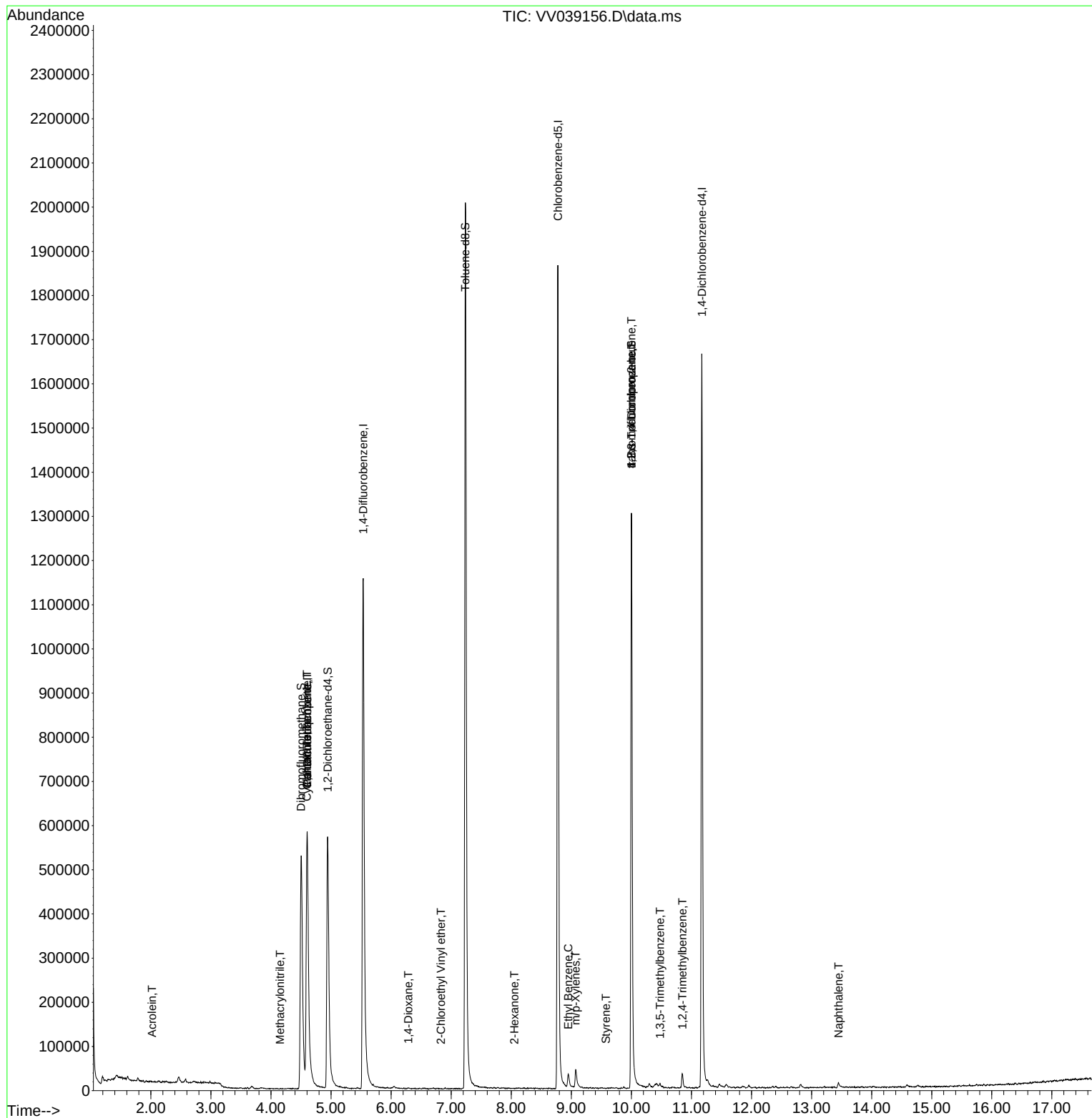
Internal Standards							
1) Pentafluorobenzene	4.603	168		478563	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	5.535	114		1112553	50.000	ug/l	0.00
63) Chlorobenzene-d5	8.776	117		1028443	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.175	152		423011	50.000	ug/l	0.00
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4	4.944	65		532790	76.924	ug/l	0.00
Spiked Amount	50.000	Range	81 - 118	Recovery	=	153.840%	#
35) Dibromofluoromethane	4.503	113		434749	48.608	ug/l	0.00
Spiked Amount	50.000	Range	80 - 119	Recovery	=	97.220%	
50) Toluene-d8	7.236	98		1414548	53.849	ug/l	0.00
Spiked Amount	50.000	Range	89 - 112	Recovery	=	107.700%	
62) 4-Bromofluorobenzene	10.001	95		442388	40.908	ug/l	0.00
Spiked Amount	50.000	Range	85 - 114	Recovery	=	81.820%	#
Target Compounds							Qvalue
6) Chloroethane	1.638	64		609	Below Cal	#	44
13) Acrolein	2.021	56		255	1.004	ug/l	# 15
16) Acetone	2.127	43		2101	Below Cal		89
20) Methylene Chloride	2.455	84		5332	Below Cal	#	92
31) Cyclohexane	4.596	56		11655	0.943	ug/l	# 1
36) 1,1-Dichloropropene	4.603	75		42455	3.140	ug/l	# 48
38) Carbon Tetrachloride	4.600	117		54004	3.268	ug/l	# 17
41) Methacrylonitrile	4.153	41		220	1.939	ug/l	# 44
49) 1,4-Dioxane	6.288	88		83	0.507	ug/l	# 25
58) 2-Chloroethyl Vinyl ether	6.831	63		77	9.632	ug/l	# 47
59) 2-Hexanone	8.053	43		114	2.335	ug/l	84
67) Ethyl Benzene	8.950	91		23591	0.544	ug/l	97
68) m/p-Xylenes	9.072	106		14537	0.869	ug/l	98
70) Styrene	9.577	104		98	1.564	ug/l	# 21
76) 1,2,3-Trichloropropane	10.001	75		235140	24.414	ug/l	# 55
80) 1,3,5-Trimethylbenzene	10.477	105		5183	0.203	ug/l	98
81) trans-1,4-Dichloro-2-b...	10.001	75		235140	58.611	ug/l	# 13
84) 1,2,4-Trimethylbenzene	10.850	105		19165	0.774	ug/l	96
92) 1,2-Dibromo-3-Chloropr...	12.358	75		100	Below Cal	#	5
95) Naphthalene	13.448	128		8154	0.292	ug/l	# 86

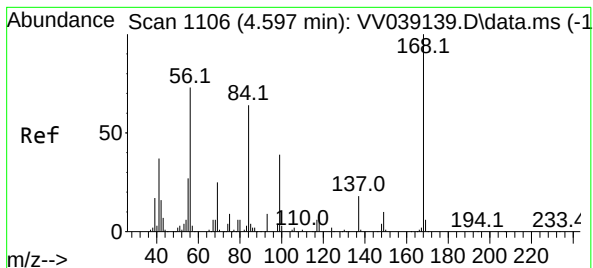
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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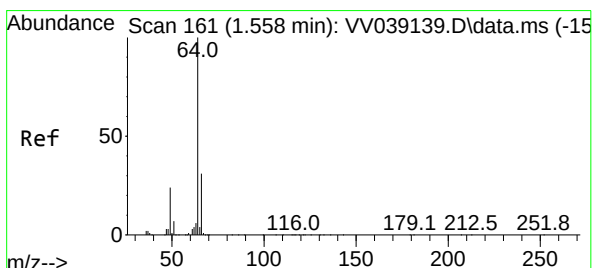
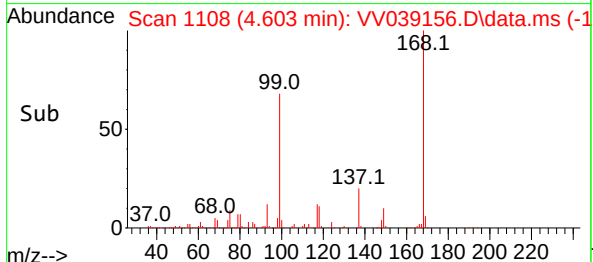
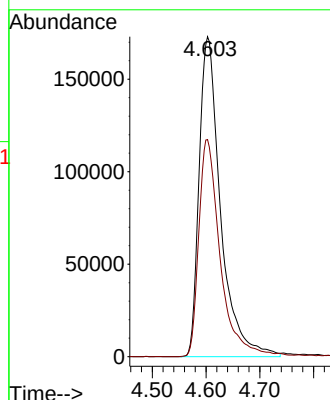
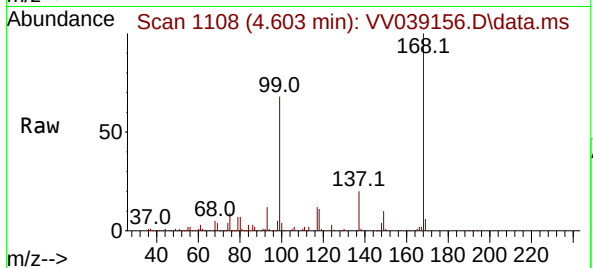




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 4.603 min Scan# 1106
Delta R.T. 0.006 min
Lab File: VV039156.D
Acq: 24 Sep 2025 16:38

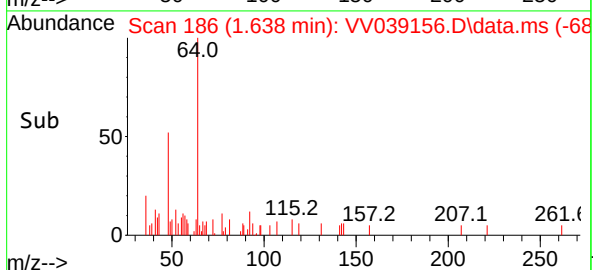
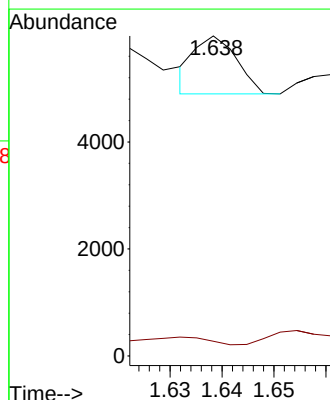
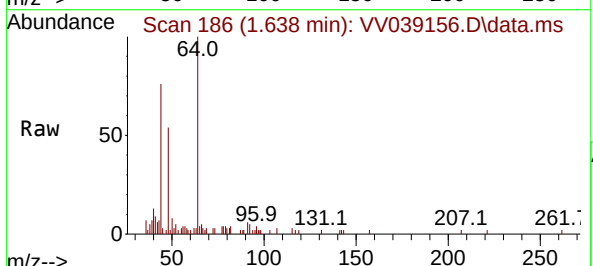
Instrument :
MSVOA_V
ClientSampleId :
VIBLK

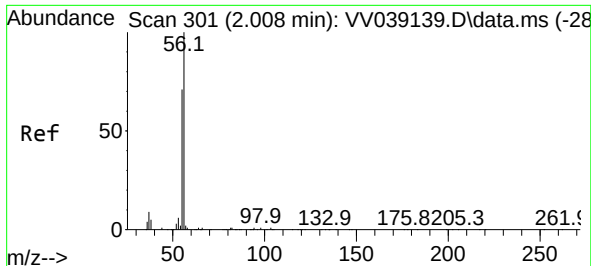
Tgt Ion:168 Resp: 478563
Ion Ratio Lower Upper
168 100
99 67.8 49.6 74.4



#6
Chloroethane
Concen: Below Cal
RT: 1.638 min Scan# 186
Delta R.T. 0.080 min
Lab File: VV039156.D
Acq: 24 Sep 2025 16:38

Tgt Ion: 64 Resp: 609
Ion Ratio Lower Upper
64 100
66 0.0 24.6 36.8#

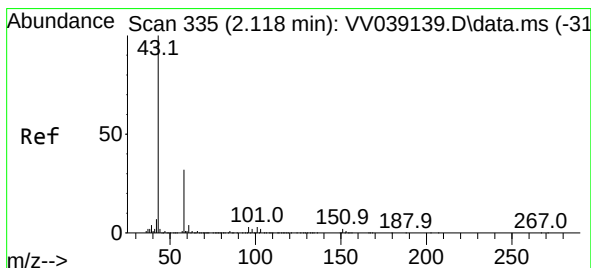
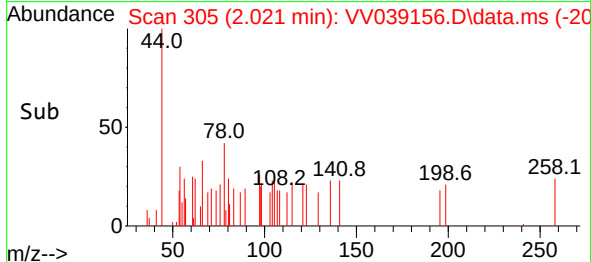
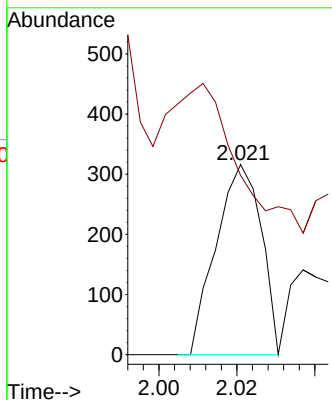
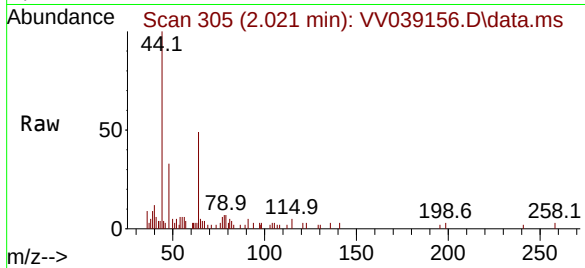




#13
Acrolein
Concen: 1.004 ug/l
RT: 2.021 min Scan# 301
Delta R.T. 0.013 min
Lab File: VV039156.D
Acq: 24 Sep 2025 16:38

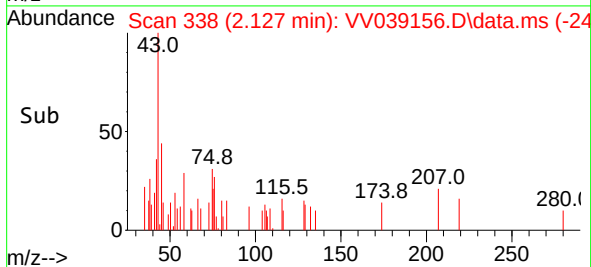
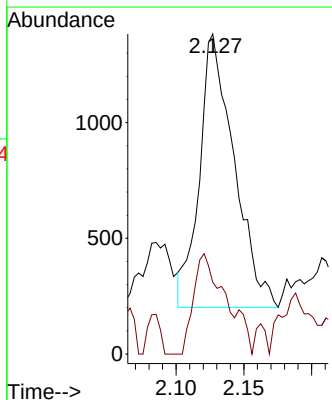
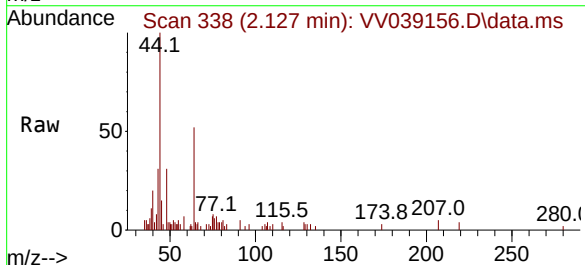
Instrument :
MSVOA_V
ClientSampleId :
VIBLK

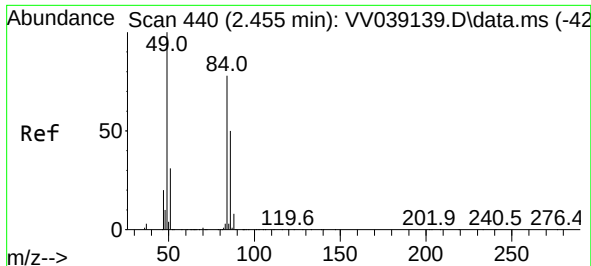
Tgt Ion: 56 Resp: 255
Ion Ratio Lower Upper
56 100
55 0.0 56.2 84.4#



#16
Acetone
Concen: Below Cal
RT: 2.127 min Scan# 338
Delta R.T. 0.009 min
Lab File: VV039156.D
Acq: 24 Sep 2025 16:38

Tgt Ion: 43 Resp: 2101
Ion Ratio Lower Upper
43 100
58 26.2 25.8 38.6

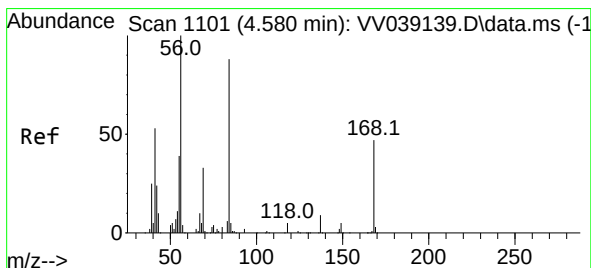
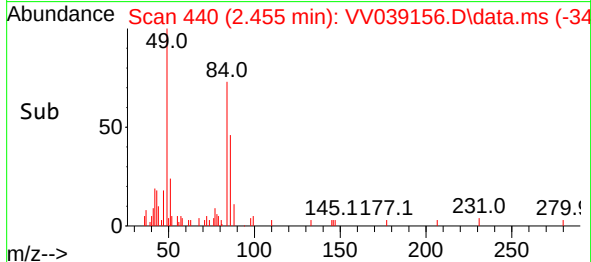
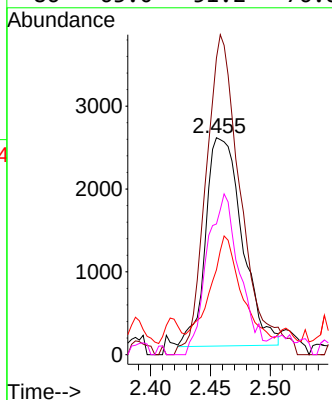
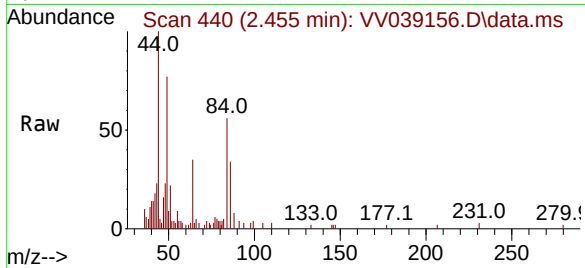




#20
Methylene Chloride
Concen: Below Cal
RT: 2.455 min Scan# 440
Delta R.T. 0.000 min
Lab File: VV039156.D
Acq: 24 Sep 2025 16:38

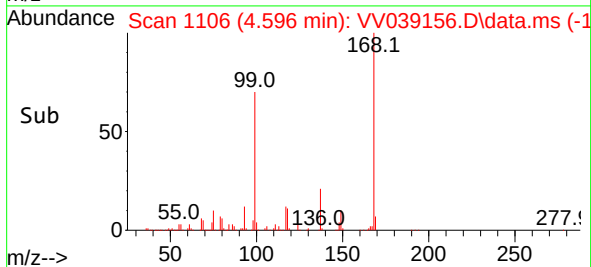
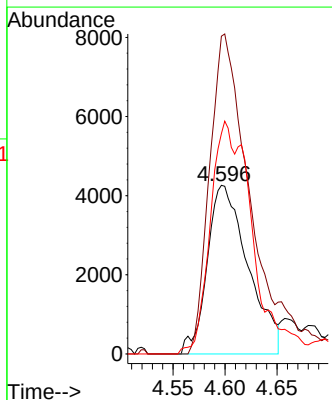
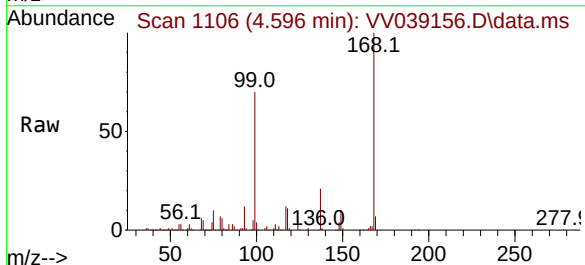
Instrument :
MSVOA_V
ClientSampleId :
VIBLK

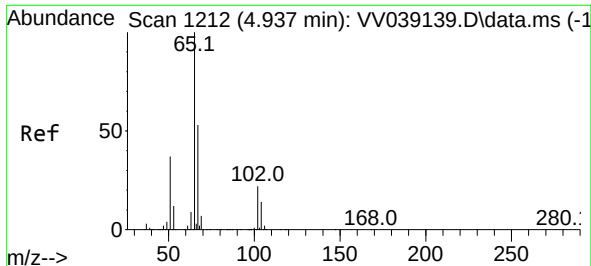
Tgt Ion:	84	Resp:	5332
Ion	Ratio	Lower	Upper
84	100		
49	139.0	102.8	154.2
51	31.1	31.9	47.9#
86	63.0	51.2	76.8



#31
Cyclohexane
Concen: 0.943 ug/l
RT: 4.596 min Scan# 1106
Delta R.T. 0.016 min
Lab File: VV039156.D
Acq: 24 Sep 2025 16:38

Tgt Ion:	56	Resp:	11655
Ion	Ratio	Lower	Upper
56	100		
69	188.5	26.2	39.2#
84	130.7	70.3	105.5#





#33

1,2-Dichloroethane-d4

Concen: 76.924 ug/l

RT: 4.944 min Scan# 1

Delta R.T. 0.006 min

Lab File: VV039156.D

Acq: 24 Sep 2025 16:38

Instrument :

MSVOA_V

ClientSampleId :

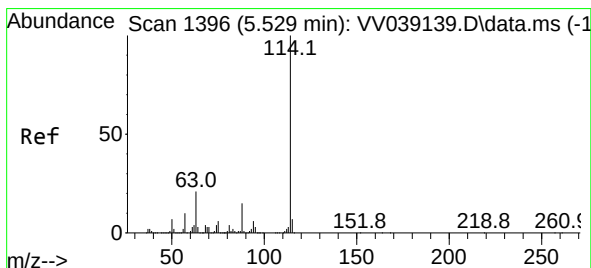
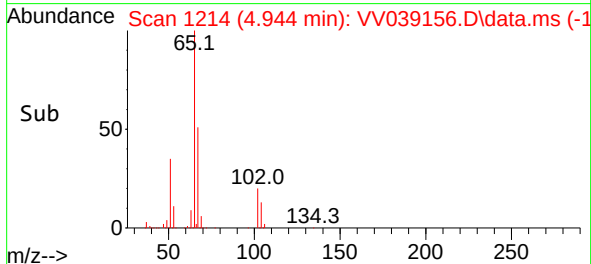
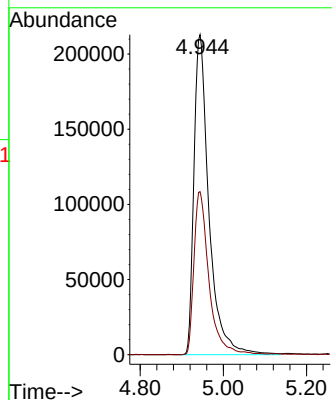
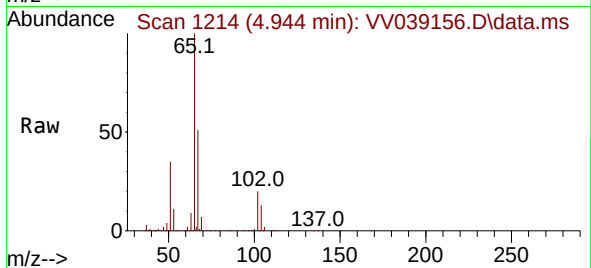
VIBLK

Tgt Ion: 65 Resp: 532790

Ion Ratio Lower Upper

65 100

67 50.3 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: VV039156.D

Acq: 24 Sep 2025 16:38

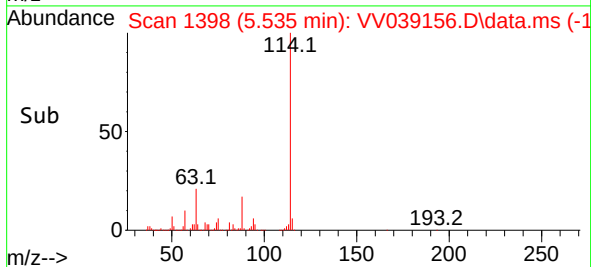
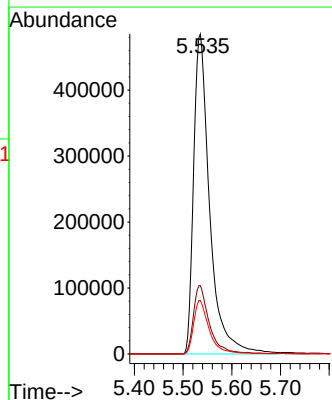
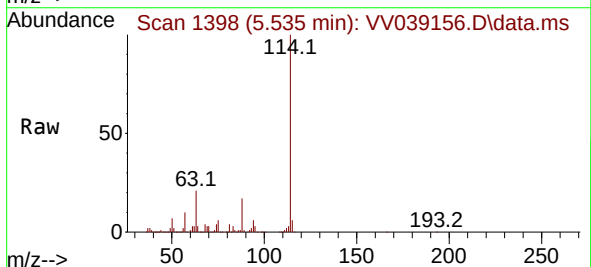
Tgt Ion: 114 Resp: 1112553

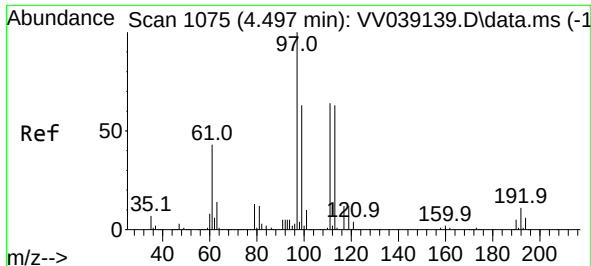
Ion Ratio Lower Upper

114 100

63 21.3 0.0 42.6

88 16.7 0.0 30.8

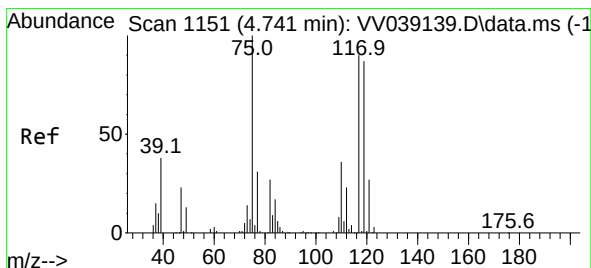
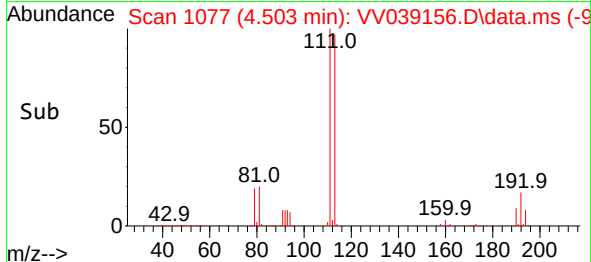
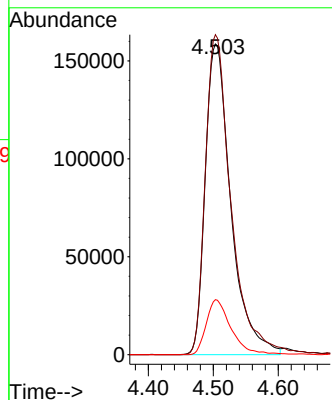
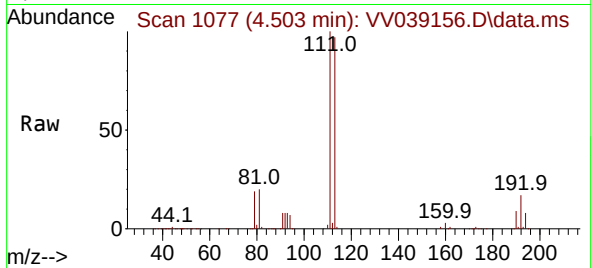




#35
Dibromofluoromethane
Concen: 48.608 ug/l
RT: 4.503 min Scan# 1108
Delta R.T. 0.006 min
Lab File: VV039156.D
Acq: 24 Sep 2025 16:38

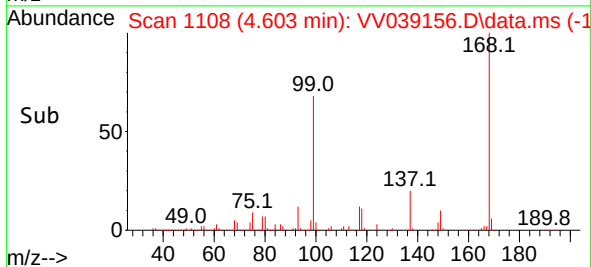
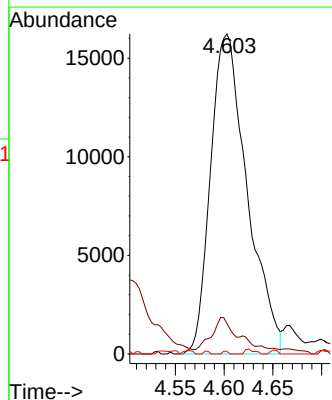
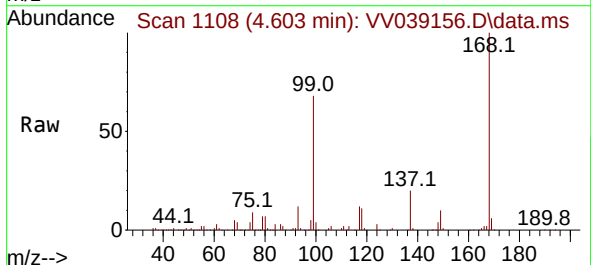
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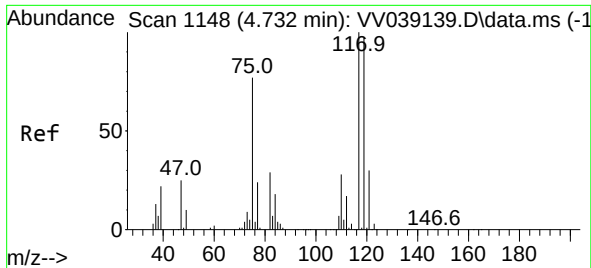
Tgt Ion:113 Resp: 434749
Ion Ratio Lower Upper
113 100
111 103.7 82.4 123.6
192 17.2 13.8 20.8



#36
1,1-Dichloropropene
Concen: 3.140 ug/l
RT: 4.603 min Scan# 1108
Delta R.T. -0.138 min
Lab File: VV039156.D
Acq: 24 Sep 2025 16:38

Tgt Ion: 75 Resp: 42455
Ion Ratio Lower Upper
75 100
110 7.4 18.1 54.1#
77 0.1 24.8 37.2#

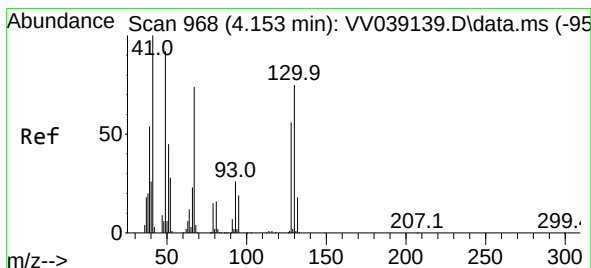
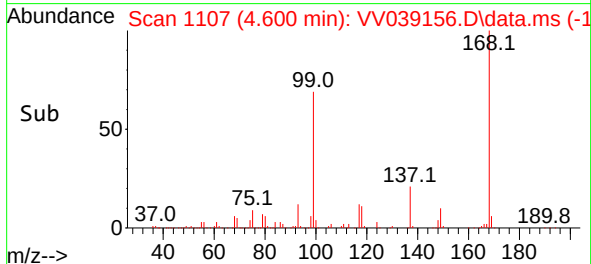
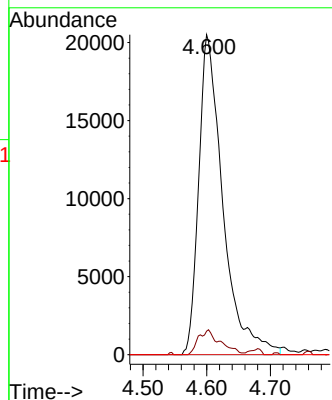
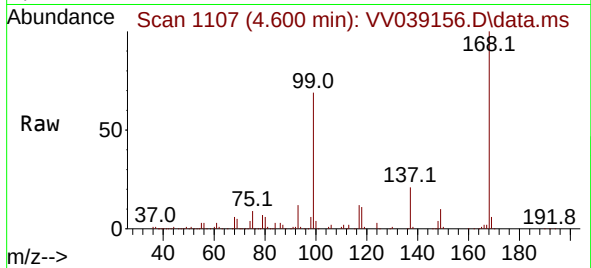




#38
Carbon Tetrachloride
Concen: 3.268 ug/l
RT: 4.600 min Scan# 1148
Delta R.T. -0.132 min
Lab File: VV039156.D
Acq: 24 Sep 2025 16:38

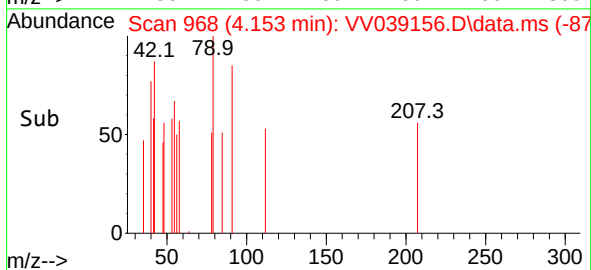
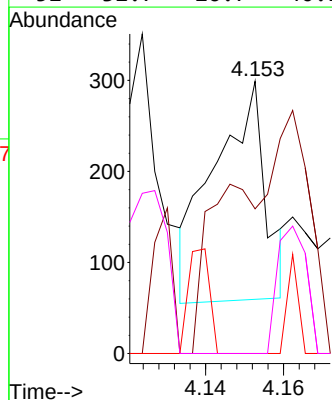
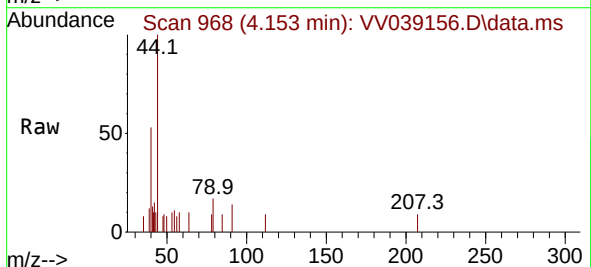
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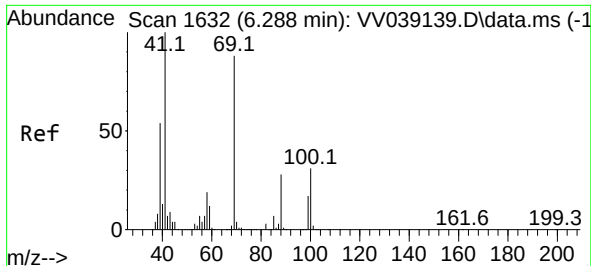
Tgt Ion:117 Resp: 54004
Ion Ratio Lower Upper
117 100
119 7.3 77.2 115.8#
121 0.0 24.2 36.2#



#41
Methacrylonitrile
Concen: 1.939 ug/l
RT: 4.153 min Scan# 968
Delta R.T. -0.000 min
Lab File: VV039156.D
Acq: 24 Sep 2025 16:38

Tgt Ion: 41 Resp: 220
Ion Ratio Lower Upper
41 100
39 87.3 42.2 63.2#
67 9.5 67.9 101.9#
52 32.7 26.7 40.1





#49

1,4-Dioxane

Concen: 0.507 ug/l

RT: 6.288 min Scan# 1

Delta R.T. -0.000 min

Lab File: VV039156.D

Acq: 24 Sep 2025 16:38

Instrument :

MSVOA_V

ClientSampleId :

VIBLK

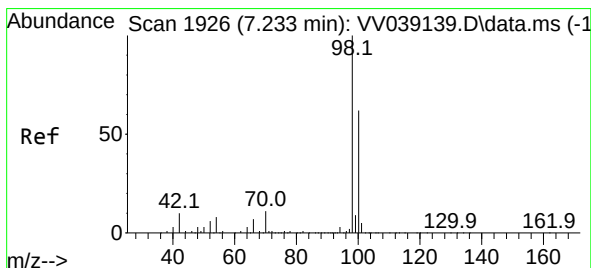
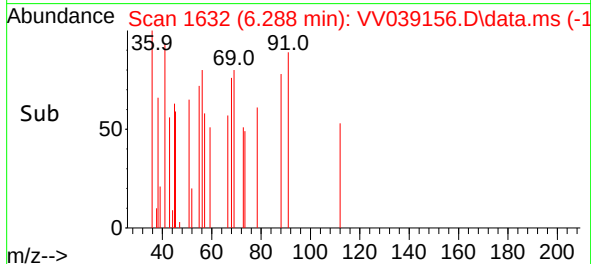
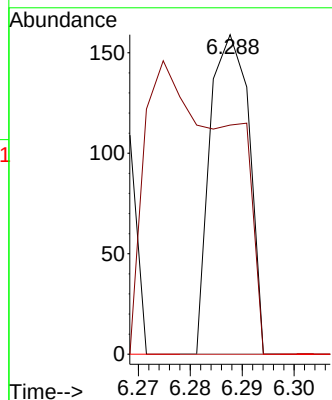
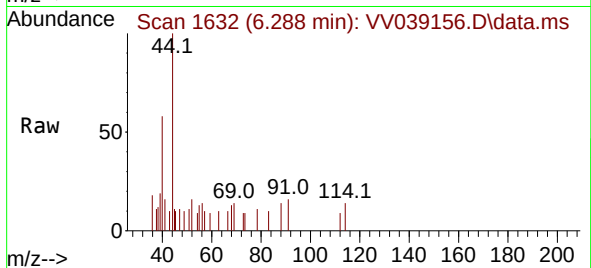
Tgt Ion: 88 Resp: 83

Ion Ratio Lower Upper

88 100

43 0.0 25.1 37.7#

58 0.0 53.6 80.4#



#50

Toluene-d8

Concen: 53.849 ug/l

RT: 7.236 min Scan# 1927

Delta R.T. 0.003 min

Lab File: VV039156.D

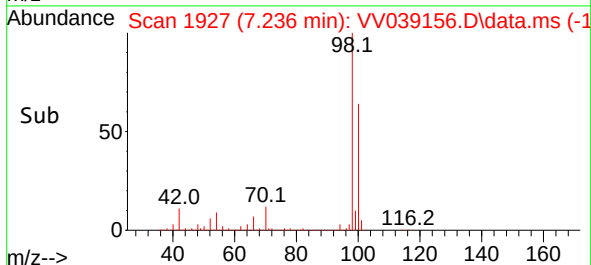
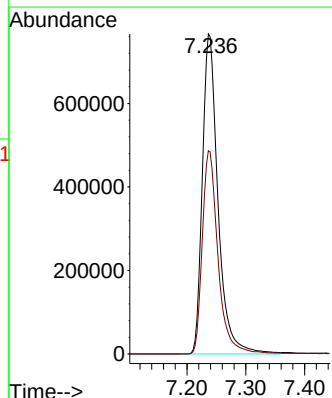
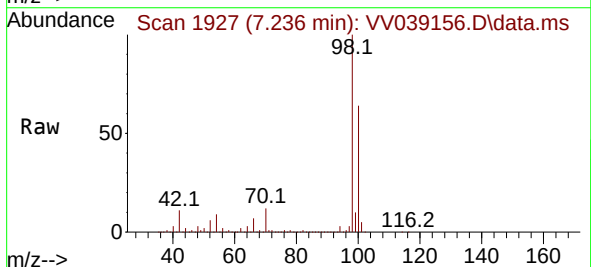
Acq: 24 Sep 2025 16:38

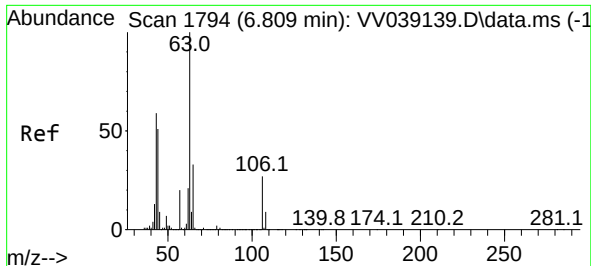
Tgt Ion: 98 Resp: 1414548

Ion Ratio Lower Upper

98 100

100 63.9 52.2 78.2

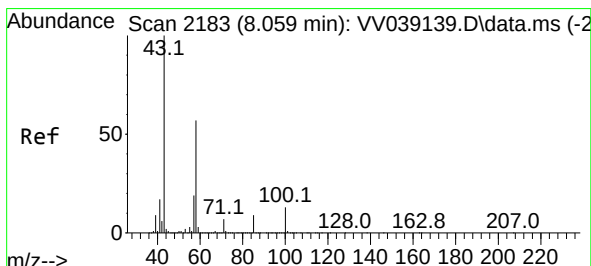
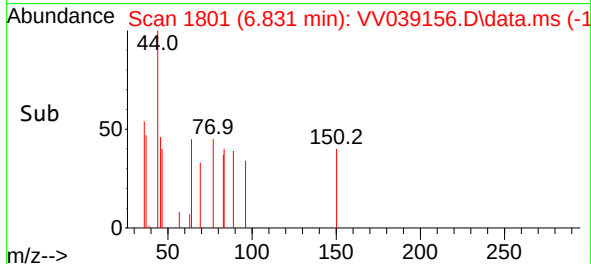
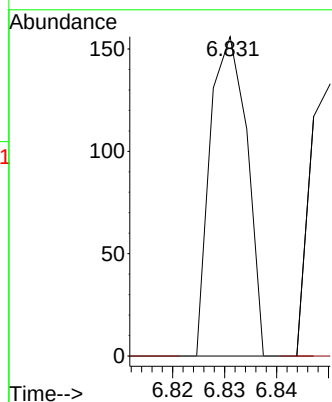
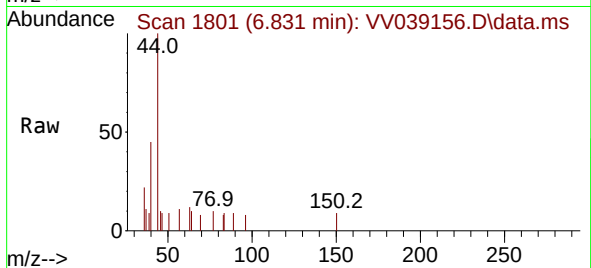




#58
2-Chloroethyl Vinyl ether
Concen: 9.632 ug/l
RT: 6.831 min Scan# 11
Delta R.T. 0.022 min
Lab File: VV039156.D
Acq: 24 Sep 2025 16:38

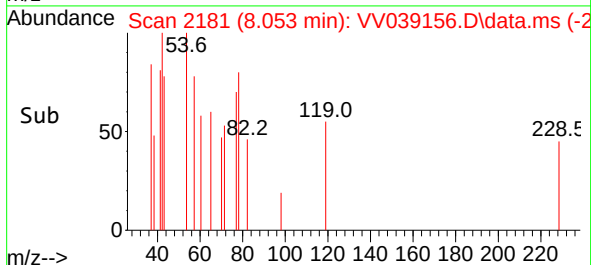
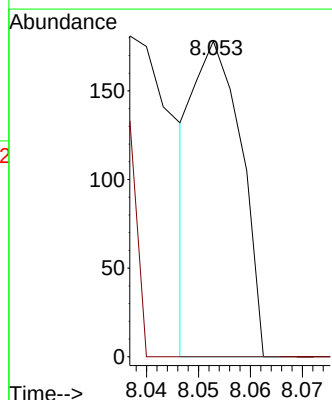
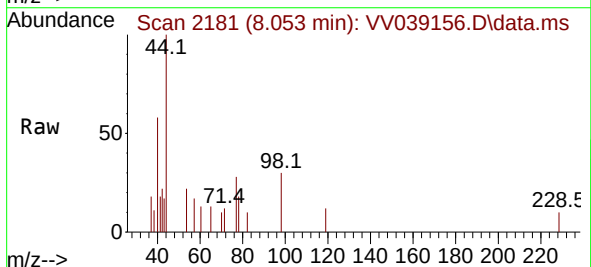
Instrument :
MSVOA_V
ClientSampleId :
VIBLK

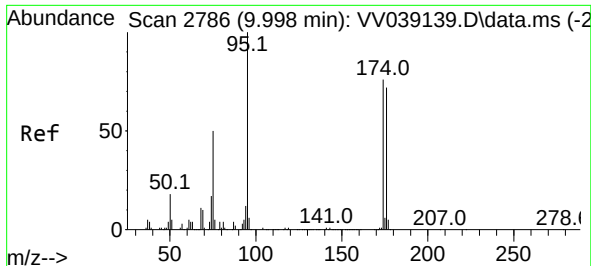
Tgt Ion: 63 Resp: 77
Ion Ratio Lower Upper
63 100
106 0.0 22.1 33.1#



#59
2-Hexanone
Concen: 2.335 ug/l
RT: 8.053 min Scan# 2181
Delta R.T. -0.006 min
Lab File: VV039156.D
Acq: 24 Sep 2025 16:38

Tgt Ion: 43 Resp: 114
Ion Ratio Lower Upper
43 100
58 44.7 28.3 85.0

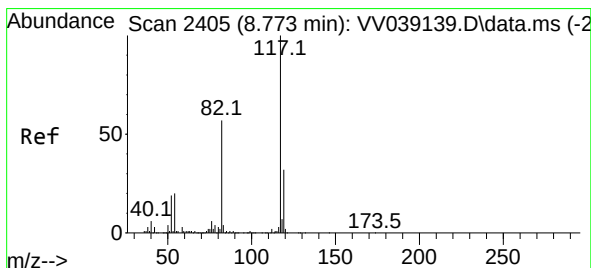
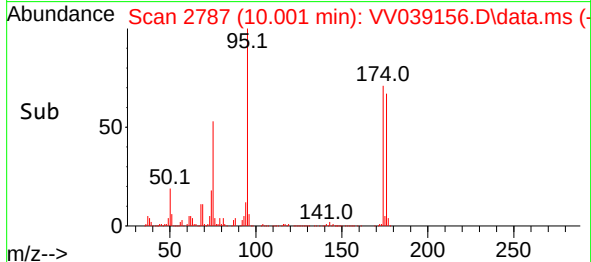
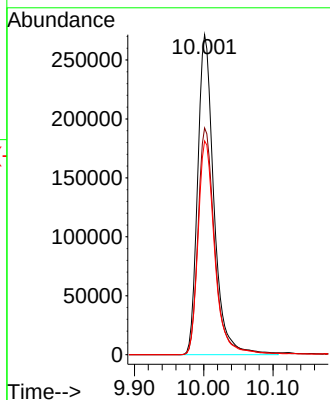
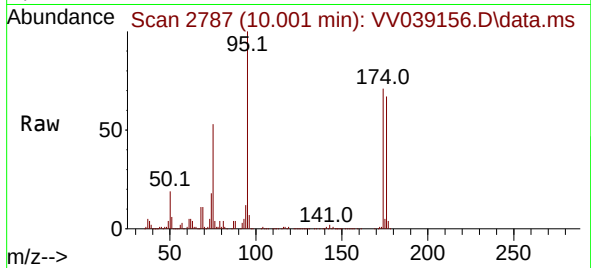




#62
4-Bromofluorobenzene
Concen: 40.908 ug/l
RT: 10.001 min Scan# 21
Delta R.T. 0.003 min
Lab File: VV039156.D
Acq: 24 Sep 2025 16:38

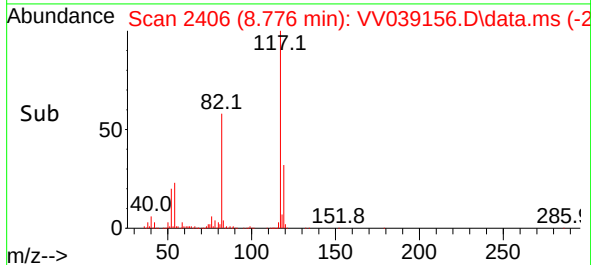
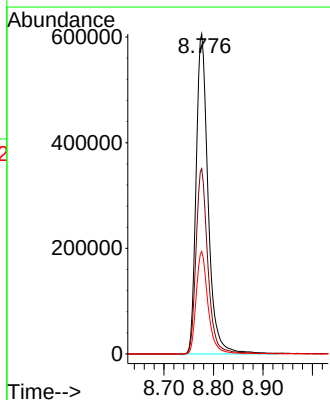
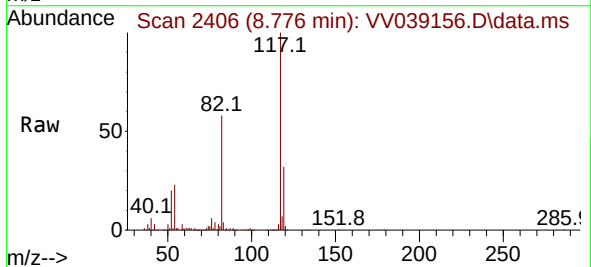
Instrument :
MSVOA_V
ClientSampleId :
VIBLK

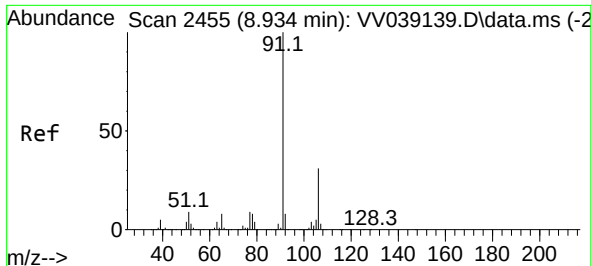
Tgt Ion: 95 Resp: 442388
Ion Ratio Lower Upper
95 100
174 72.7 0.0 150.4
176 68.9 0.0 144.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 8.776 min Scan# 2406
Delta R.T. 0.003 min
Lab File: VV039156.D
Acq: 24 Sep 2025 16:38

Tgt Ion: 117 Resp: 1028443
Ion Ratio Lower Upper
117 100
82 57.9 45.4 68.2
119 32.0 25.6 38.4





#67

Ethyl Benzene

Concen: 0.544 ug/l

RT: 8.950 min Scan# 2455

Delta R.T. 0.016 min

Lab File: VV039156.D

Acq: 24 Sep 2025 16:38

Instrument :

MSVOA_V

ClientSampleId :

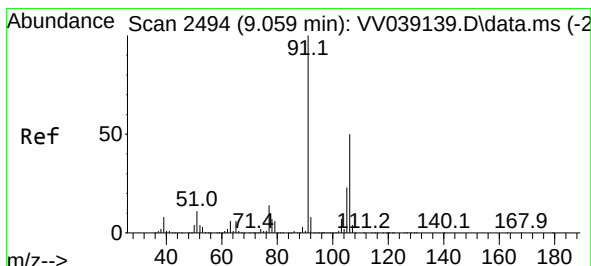
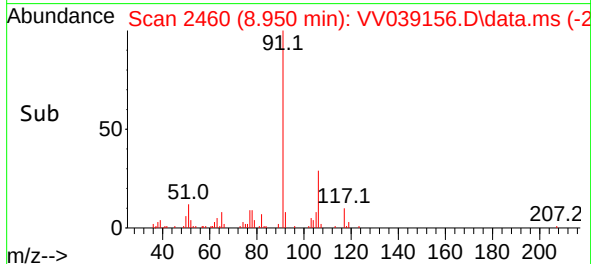
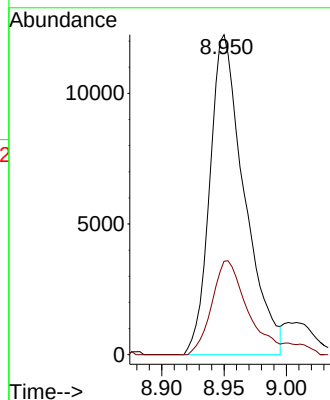
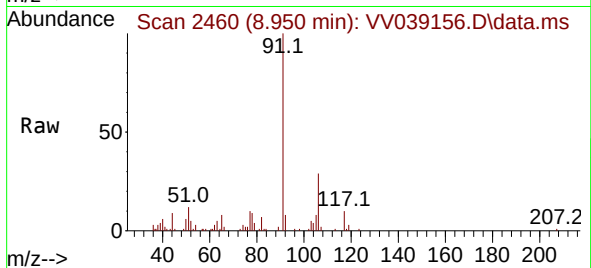
VIBLK

Tgt Ion: 91 Resp: 23591

Ion Ratio Lower Upper

91 100

106 29.2 24.6 37.0



#68

m/p-Xylenes

Concen: 0.869 ug/l

RT: 9.072 min Scan# 2498

Delta R.T. 0.013 min

Lab File: VV039156.D

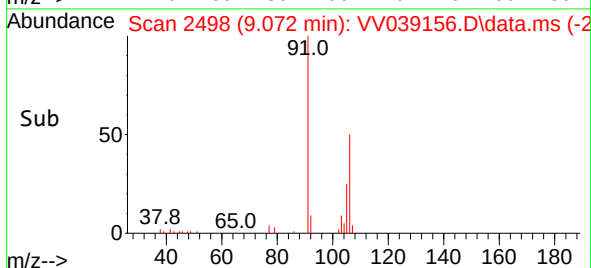
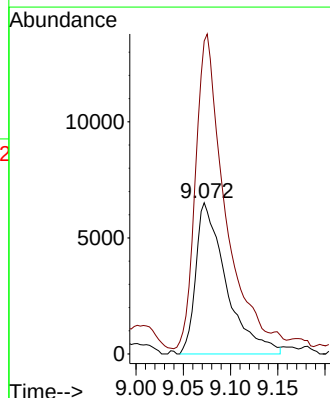
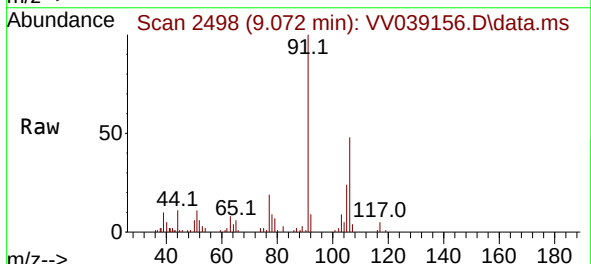
Acq: 24 Sep 2025 16:38

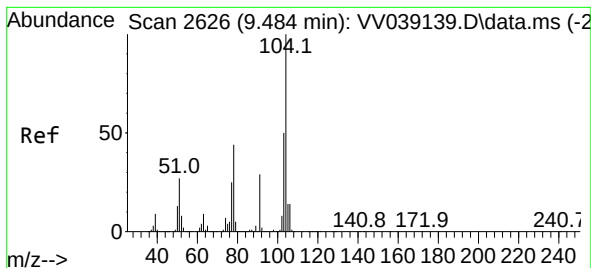
Tgt Ion: 106 Resp: 14537

Ion Ratio Lower Upper

106 100

91 199.6 162.5 243.7





#70

Styrene

Concen: 1.564 ug/l

RT: 9.577 min Scan# 2

Delta R.T. 0.093 min

Lab File: VV039156.D

Acq: 24 Sep 2025 16:38

Instrument :

MSVOA_V

ClientSampleId :

VIBLK

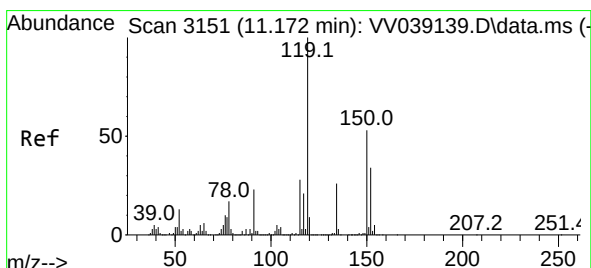
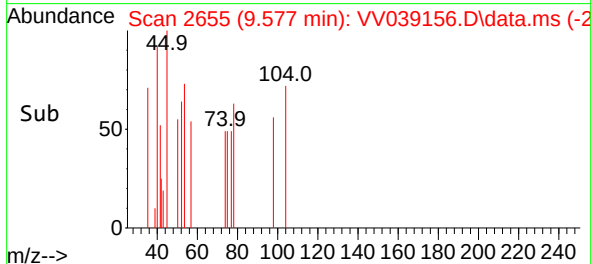
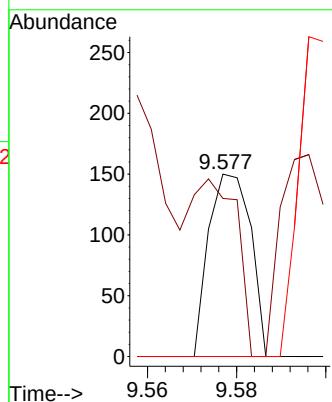
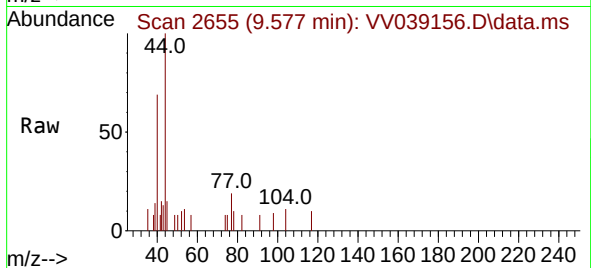
Tgt Ion:104 Resp: 98

Ion Ratio Lower Upper

104 100

78 106.1 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: VV039156.D

Acq: 24 Sep 2025 16:38

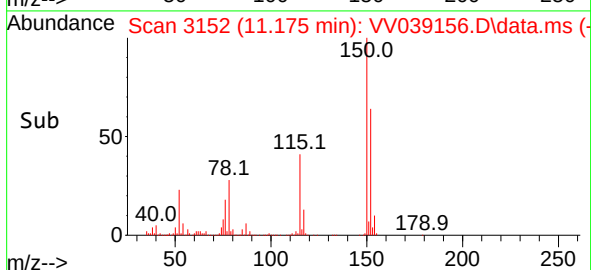
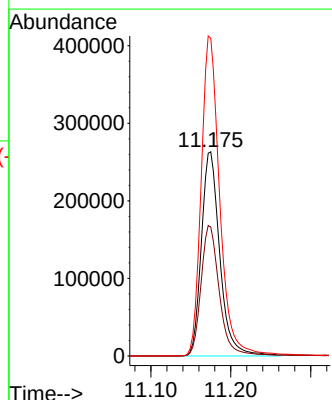
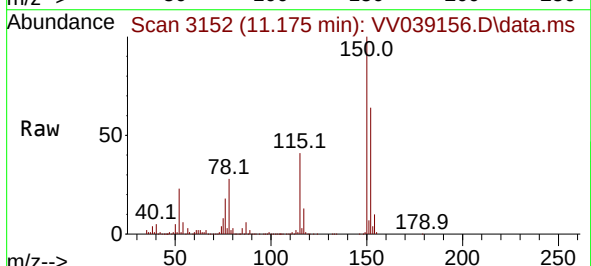
Tgt Ion:152 Resp: 423011

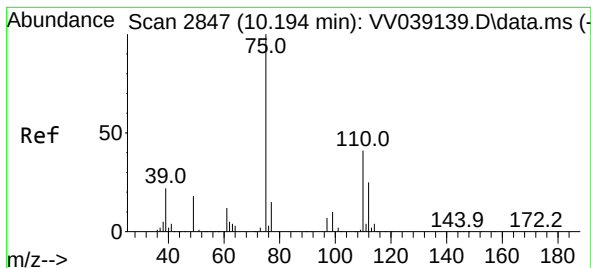
Ion Ratio Lower Upper

152 100

115 63.3 44.8 134.4

150 158.4 0.0 353.8





#76

1,2,3-Trichloropropane

Concen: 24.414 ug/l

RT: 10.001 min Scan# 21

Delta R.T. -0.193 min

Lab File: VV039156.D

Acq: 24 Sep 2025 16:38

Instrument :

MSVOA_V

ClientSampleId :

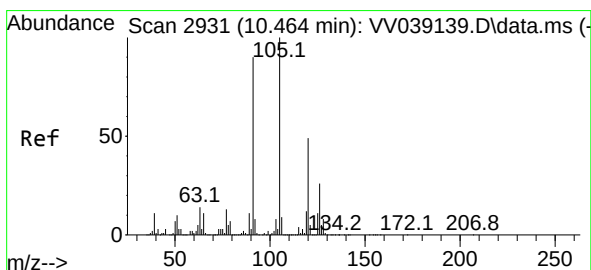
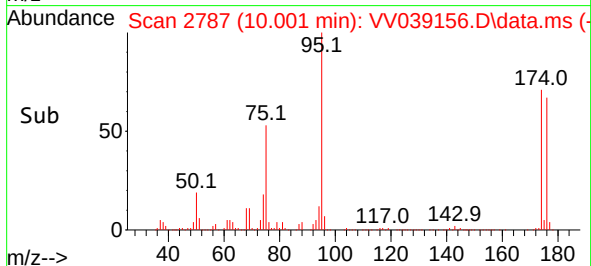
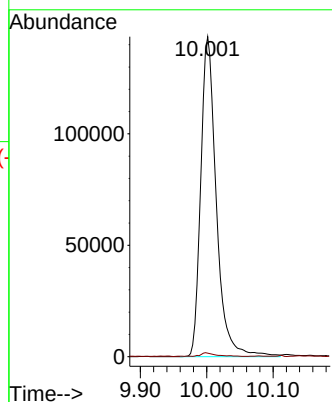
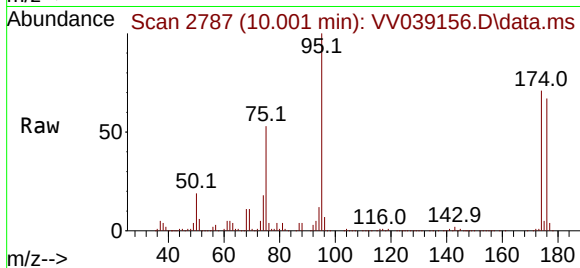
VIBLK

Tgt Ion: 75 Resp: 235140

Ion Ratio Lower Upper

75 100

77 0.9 11.3 33.8#



#80

1,3,5-Trimethylbenzene

Concen: 0.203 ug/l

RT: 10.477 min Scan# 2935

Delta R.T. 0.013 min

Lab File: VV039156.D

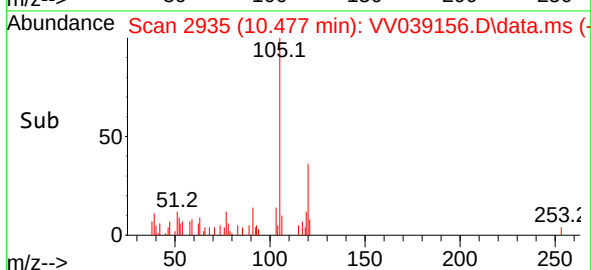
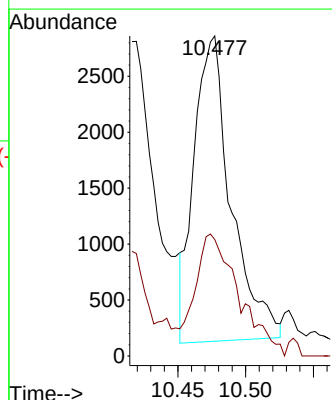
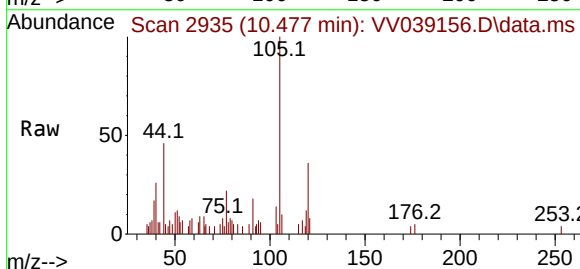
Acq: 24 Sep 2025 16:38

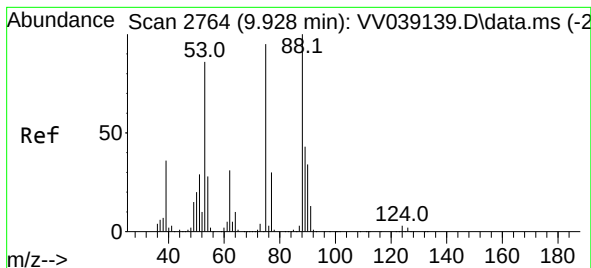
Tgt Ion:105 Resp: 5183

Ion Ratio Lower Upper

105 100

120 47.0 24.3 72.8





#81

trans-1,4-Dichloro-2-butene

Concen: 58.611 ug/l

RT: 10.001 min Scan# 21

Delta R.T. 0.074 min

Lab File: VV039156.D

Acq: 24 Sep 2025 16:38

Instrument :

MSVOA_V

ClientSampleId :

VIBLK

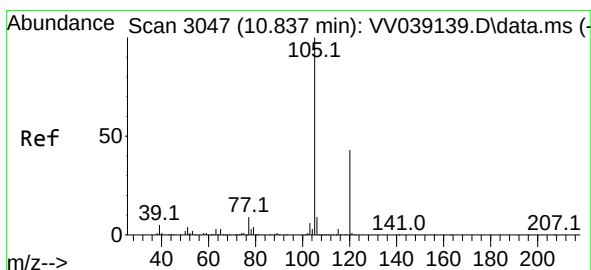
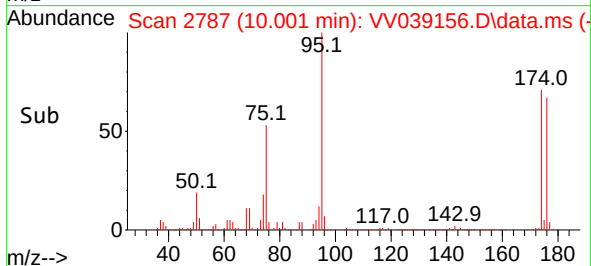
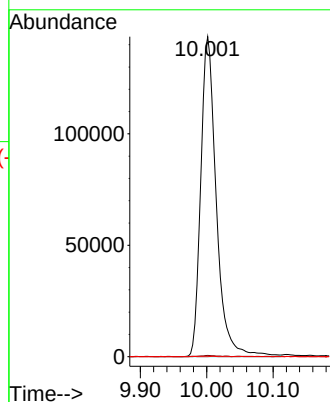
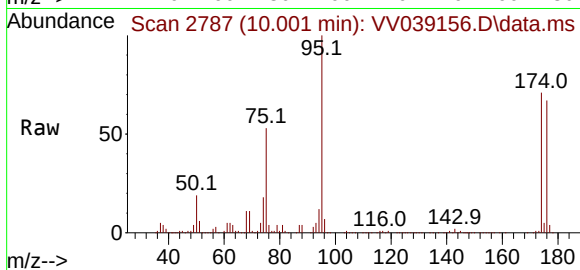
Tgt Ion: 75 Resp: 235140

Ion Ratio Lower Upper

75 100

53 0.4 72.5 108.7#

89 0.0 37.2 55.8#



#84

1,2,4-Trimethylbenzene

Concen: 0.774 ug/l

RT: 10.850 min Scan# 3051

Delta R.T. 0.013 min

Lab File: VV039156.D

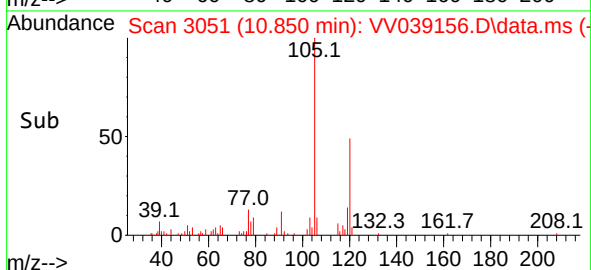
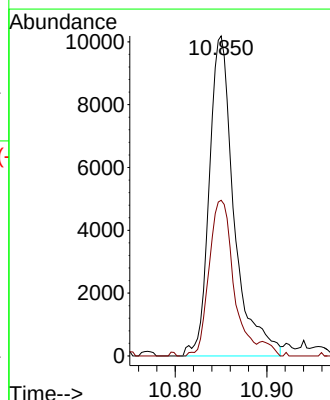
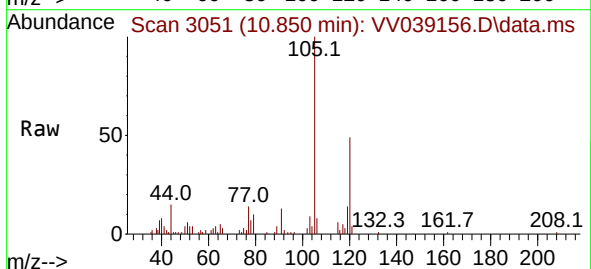
Acq: 24 Sep 2025 16:38

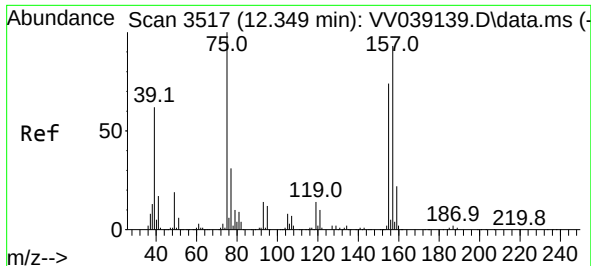
Tgt Ion: 105 Resp: 19165

Ion Ratio Lower Upper

105 100

120 47.6 22.4 67.2





#92

1,2-Dibromo-3-Chloropropane

Concen: Below Cal

RT: 12.358 min Scan# 3520

Delta R.T. 0.009 min

Lab File: VV039156.D

Acq: 24 Sep 2025 16:38

Instrument :

MSVOA_V

ClientSampleId :

VIBLK

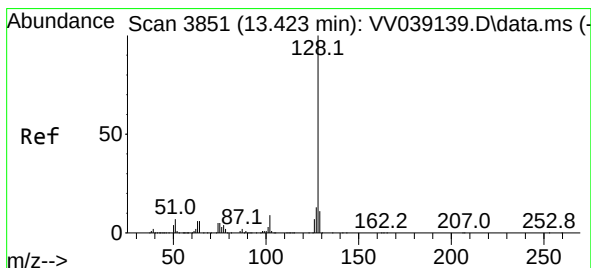
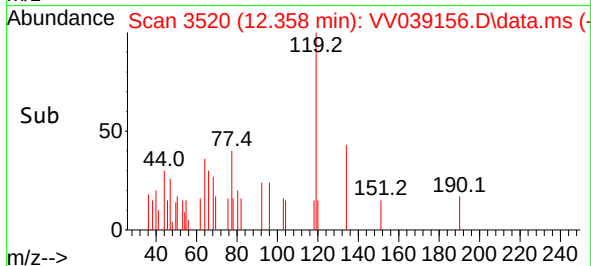
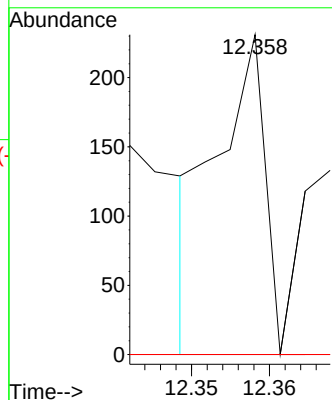
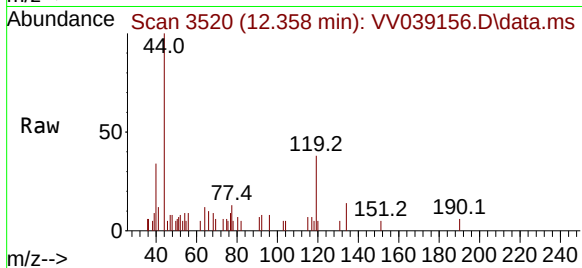
Tgt Ion: 75 Resp: 100

Ion Ratio Lower Upper

75 100

155 0.0 38.6 115.8#

157 0.0 49.5 148.3#



#95

Naphthalene

Concen: 0.292 ug/l

RT: 13.448 min Scan# 3859

Delta R.T. 0.025 min

Lab File: VV039156.D

Acq: 24 Sep 2025 16:38

Tgt Ion: 128 Resp: 8154

Ion Ratio Lower Upper

128 100

127 16.8 10.3 15.5#

129 17.6 8.6 13.0#

