

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092625\
 Data File : VV039212.D
 Acq On : 26 Sep 2025 14:58
 Operator : SY/MD
 Sample : Q3195-13
 Misc : 5.0mL/MSVOA_V/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 MW-26-091925-FD

Quant Time: Sep 27 02:57:25 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)

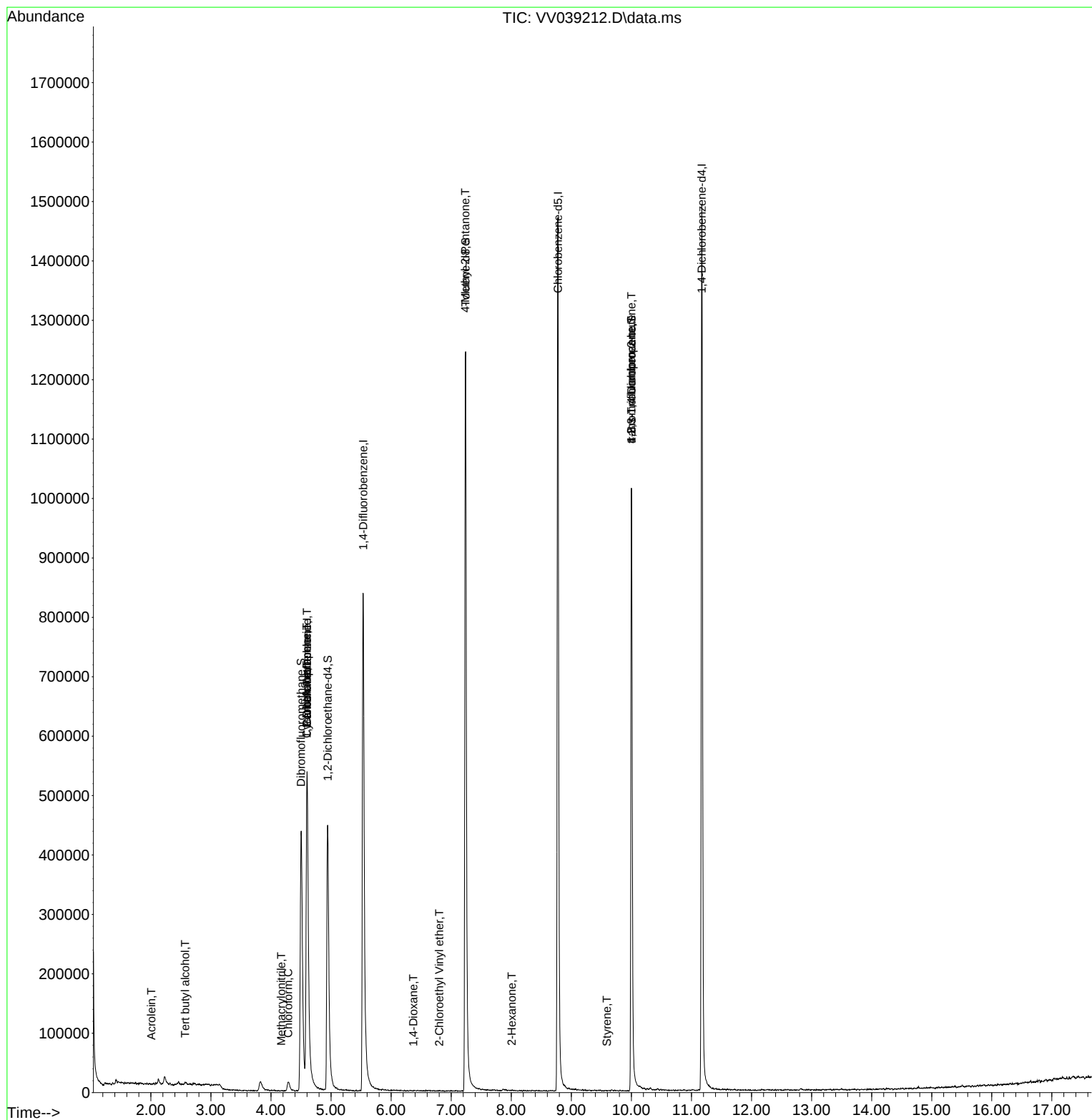
Internal Standards						
1) Pentafluorobenzene	4.600	168	454191	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	5.535	114	813227	50.000	ug/l	0.00
63) Chlorobenzene-d5	8.776	117	842320	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.172	152	398907	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.944	65	398953	60.691	ug/l	0.00
Spiked Amount	50.000	Range	81 - 118	Recovery	= 121.380%#	
35) Dibromofluoromethane	4.503	113	366722	56.094	ug/l	0.00
Spiked Amount	50.000	Range	80 - 119	Recovery	= 112.180%	
50) Toluene-d8	7.239	98	915207	47.664	ug/l	0.00
Spiked Amount	50.000	Range	89 - 112	Recovery	= 95.320%	
62) 4-Bromofluorobenzene	10.001	95	350373	44.325	ug/l	0.00
Spiked Amount	50.000	Range	85 - 114	Recovery	= 88.660%	
Target Compounds						
					Qvalue	
6) Chloroethane	1.536	64	399	Below Cal	#	85
11) Tert butyl alcohol	2.571	59	707	0.509	ug/l	99
13) Acrolein	2.008	56	128	0.531	ug/l #	1
16) Acetone	2.124	43	10320	Below Cal		100
20) Methylene Chloride	2.455	84	2500	Below Cal	#	90
30) Chloroform	4.288	83	17020	1.139	ug/l	89
31) Cyclohexane	4.597	56	9768	0.833	ug/l #	1
36) 1,1-Dichloropropene	4.597	75	39775	4.024	ug/l #	51
38) Carbon Tetrachloride	4.600	117	47882	3.964	ug/l #	17
41) Methacrylonitrile	4.172	41	110	1.930	ug/l #	6
49) 1,4-Dioxane	6.371	88	93	0.777	ug/l #	1
51) 4-Methyl-2-Pentanone	7.236	43	3544	0.329	ug/l #	1
58) 2-Chloroethyl Vinyl ether	6.802	63	82	9.637	ug/l #	47
59) 2-Hexanone	8.008	43	120	2.339	ug/l	93
70) Styrene	9.593	104	42	1.563	ug/l	97
76) 1,2,3-Trichloropropane	10.001	75	171194	18.849	ug/l #	57
81) trans-1,4-Dichloro-2-b...	10.001	75	171194	45.250	ug/l #	13
92) 1,2-Dibromo-3-Chloropr...	12.320	75	101	Below Cal	#	5

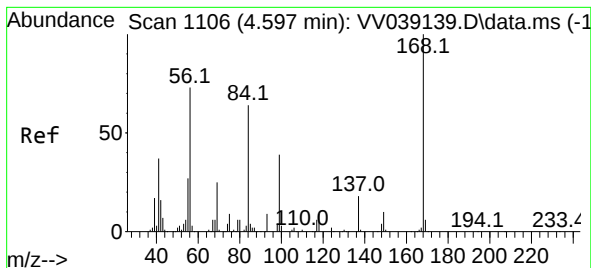
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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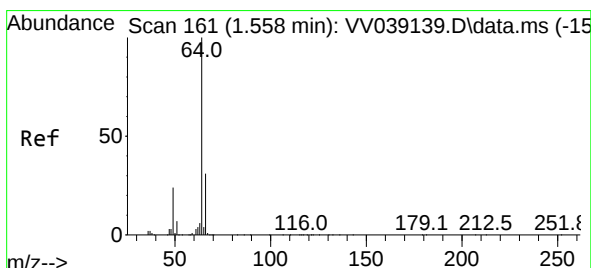
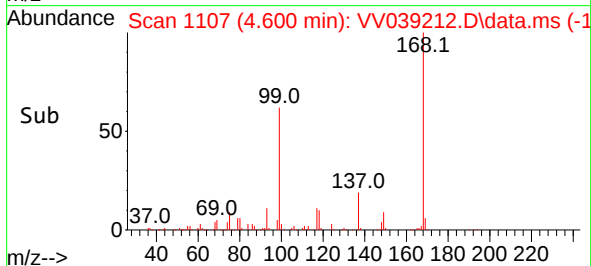
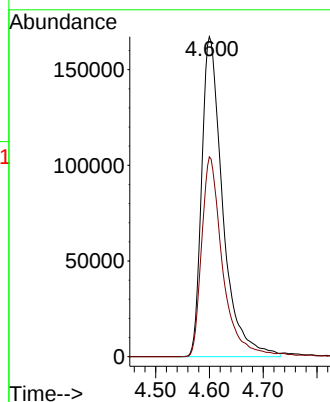
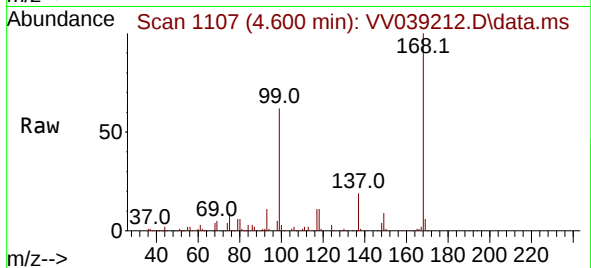




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 4.600 min Scan# 11
Delta R.T. 0.003 min
Lab File: VV039212.D
Acq: 26 Sep 2025 14:58

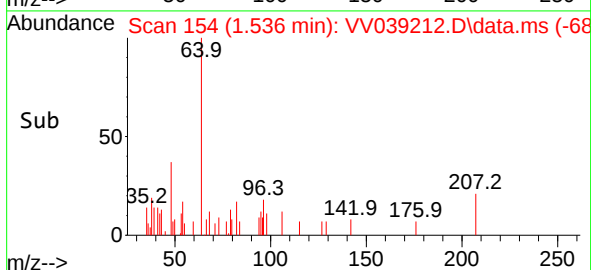
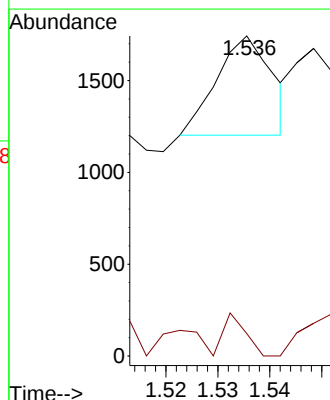
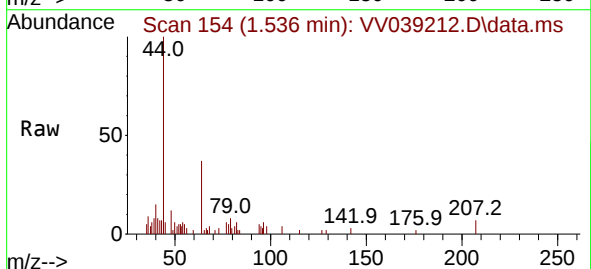
Instrument :
MSVOA_V
ClientSampleId :
MW-26-091925-FD

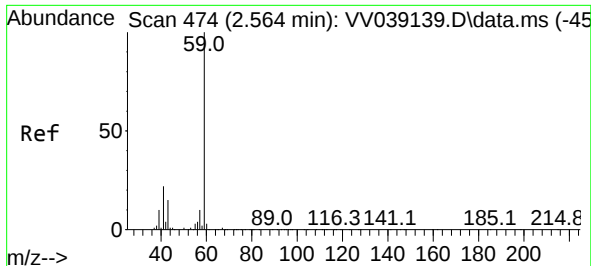
Tgt Ion:168 Resp: 454191
Ion Ratio Lower Upper
168 100
99 62.4 49.6 74.4



#6
Chloroethane
Concen: Below Cal
RT: 1.536 min Scan# 154
Delta R.T. -0.022 min
Lab File: VV039212.D
Acq: 26 Sep 2025 14:58

Tgt Ion: 64 Resp: 399
Ion Ratio Lower Upper
64 100
66 22.6 24.6 36.8#





#11

Tert butyl alcohol

Concen: 0.509 ug/l

RT: 2.571 min Scan# 41

Delta R.T. 0.006 min

Lab File: VV039212.D

Acq: 26 Sep 2025 14:58

Instrument :

MSVOA_V

ClientSampleId :

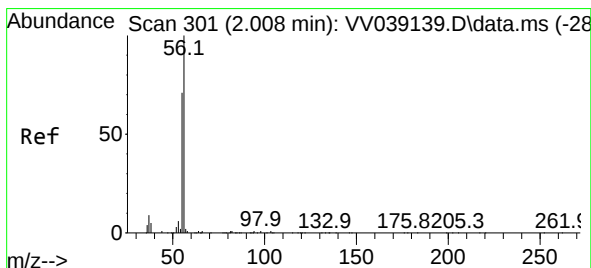
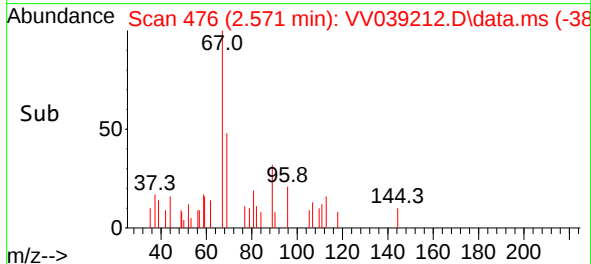
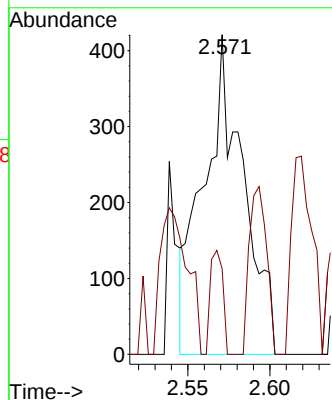
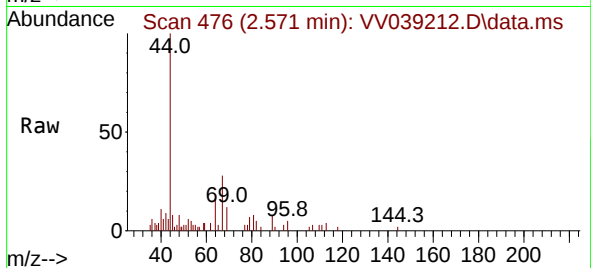
MW-26-091925-FD

Tgt Ion: 59 Resp: 707

Ion Ratio Lower Upper

59 100

57 10.2 7.8 11.8



#13

Acrolein

Concen: 0.531 ug/l

RT: 2.008 min Scan# 301

Delta R.T. 0.000 min

Lab File: VV039212.D

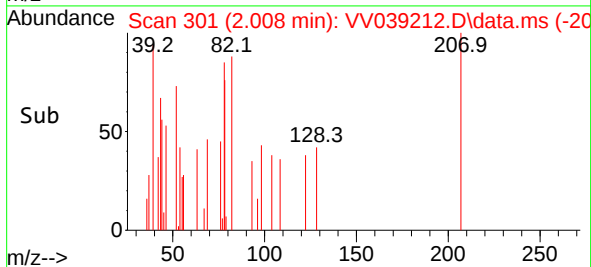
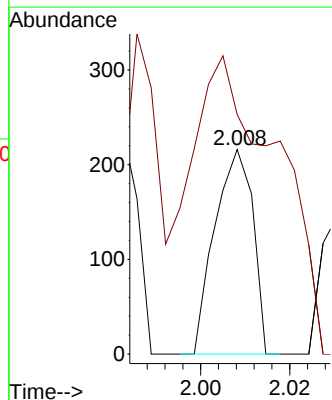
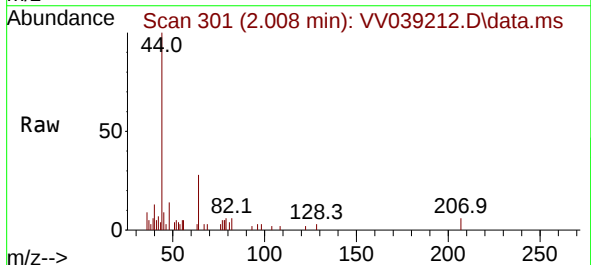
Acq: 26 Sep 2025 14:58

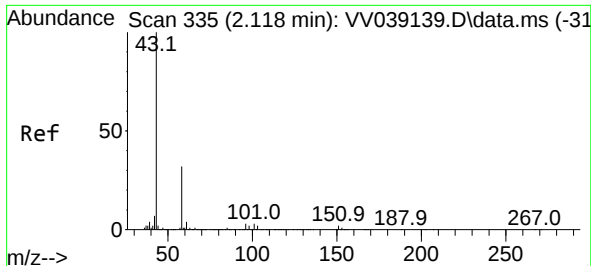
Tgt Ion: 56 Resp: 128

Ion Ratio Lower Upper

56 100

55 308.6 56.2 84.4#





#16

Acetone

Concen: Below Cal

RT: 2.124 min Scan# 31

Delta R.T. 0.006 min

Lab File: VV039212.D

Acq: 26 Sep 2025 14:58

Instrument :

MSVOA_V

ClientSampleId :

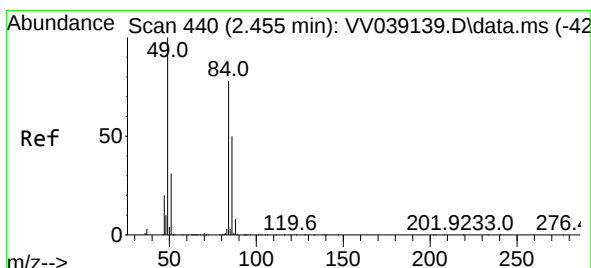
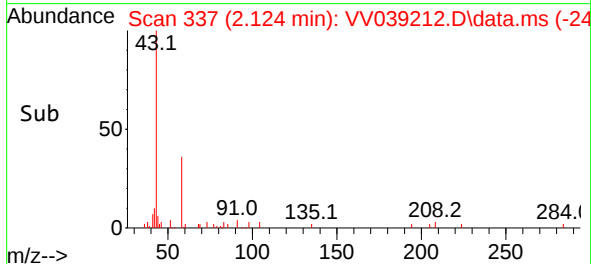
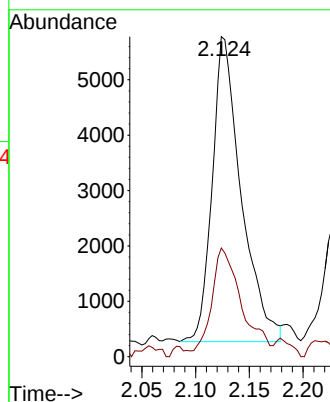
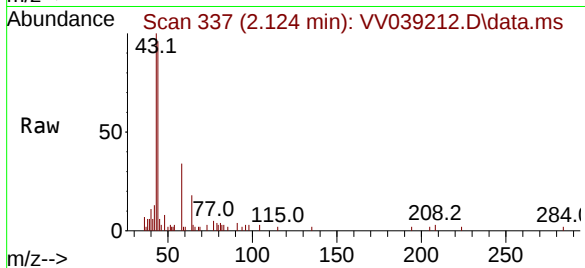
MW-26-091925-FD

Tgt Ion: 43 Resp: 10320

Ion Ratio Lower Upper

43 100

58 32.3 25.8 38.6



#20

Methylene Chloride

Concen: Below Cal

RT: 2.455 min Scan# 440

Delta R.T. 0.000 min

Lab File: VV039212.D

Acq: 26 Sep 2025 14:58

Tgt Ion: 84 Resp: 2500

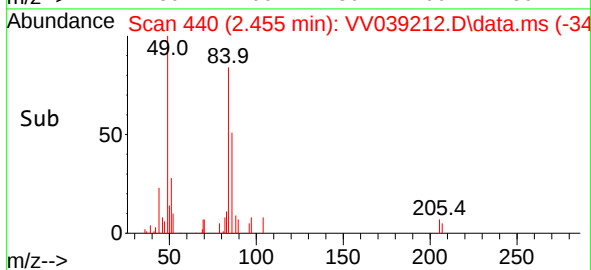
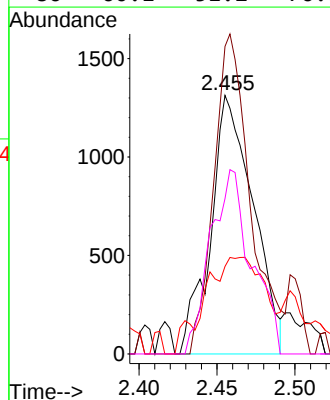
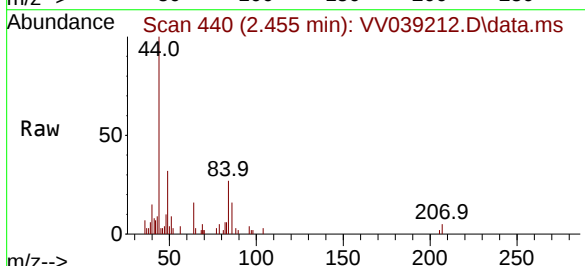
Ion Ratio Lower Upper

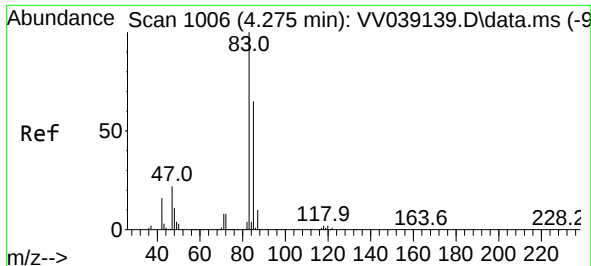
84 100

49 119.0 102.8 154.2

51 23.7 31.9 47.9#

86 60.1 51.2 76.8





#30

Chloroform

Concen: 1.139 ug/l

RT: 4.288 min Scan# 1106

Delta R.T. 0.013 min

Lab File: VV039212.D

Acq: 26 Sep 2025 14:58

Instrument :

MSVOA_V

ClientSampleId :

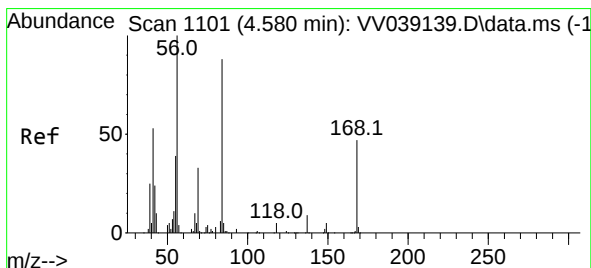
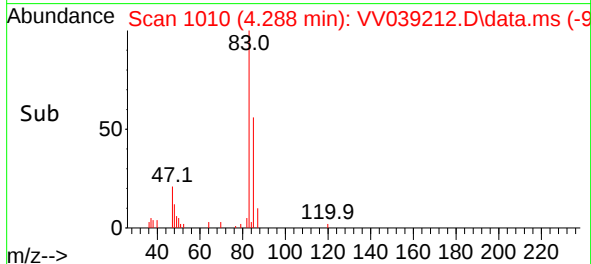
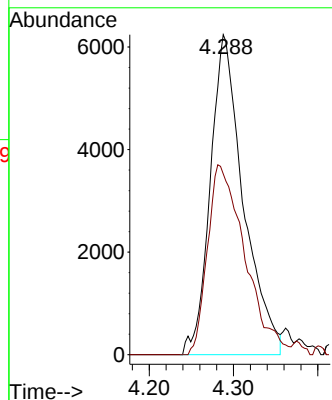
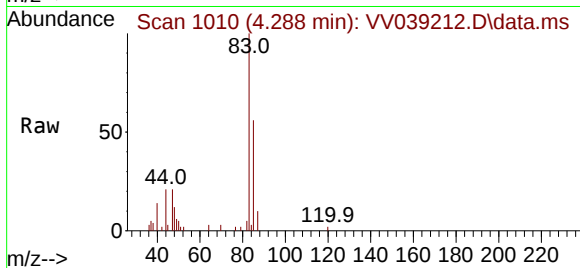
MW-26-091925-FD

Tgt Ion: 83 Resp: 17020

Ion Ratio Lower Upper

83 100

85 56.5 52.1 78.1



#31

Cyclohexane

Concen: 0.833 ug/l

RT: 4.597 min Scan# 1106

Delta R.T. 0.016 min

Lab File: VV039212.D

Acq: 26 Sep 2025 14:58

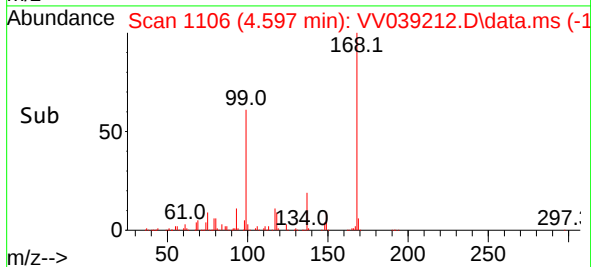
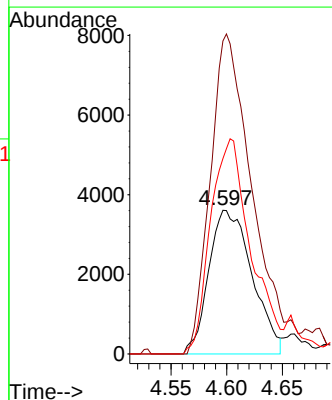
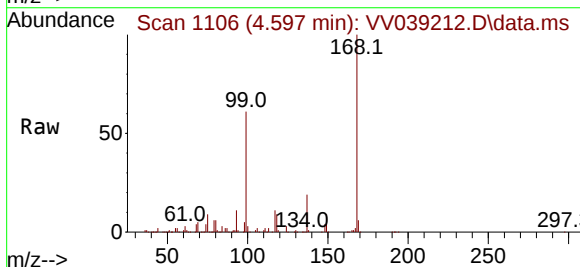
Tgt Ion: 56 Resp: 9768

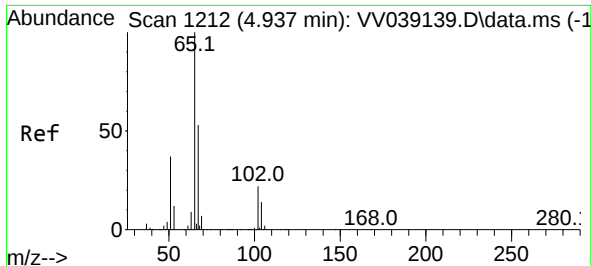
Ion Ratio Lower Upper

56 100

69 217.8 26.2 39.2#

84 135.9 70.3 105.5#





#33

1,2-Dichloroethane-d4

Concen: 60.691 ug/l

RT: 4.944 min Scan# 1

Delta R.T. 0.006 min

Lab File: VV039212.D

Acq: 26 Sep 2025 14:58

Instrument :

MSVOA_V

ClientSampleId :

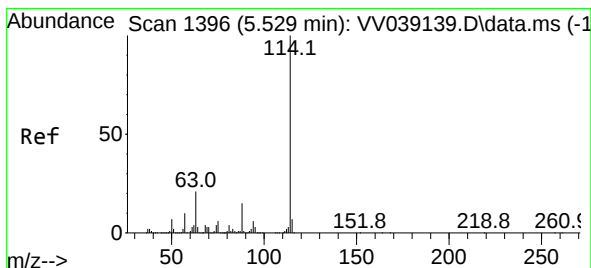
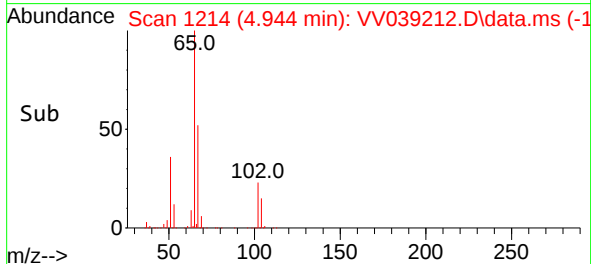
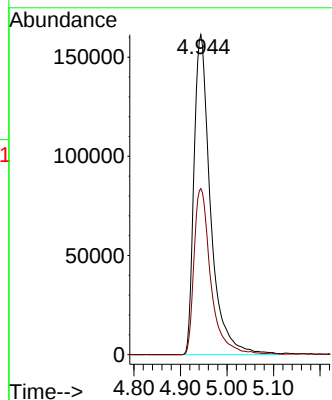
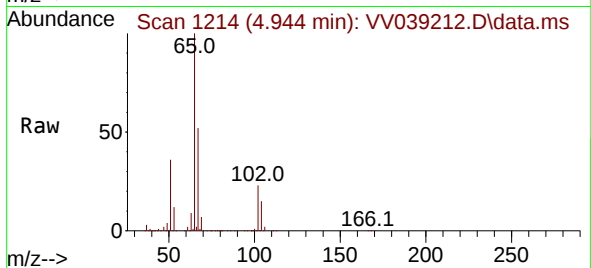
MW-26-091925-FD

Tgt Ion: 65 Resp: 398953

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: VV039212.D

Acq: 26 Sep 2025 14:58

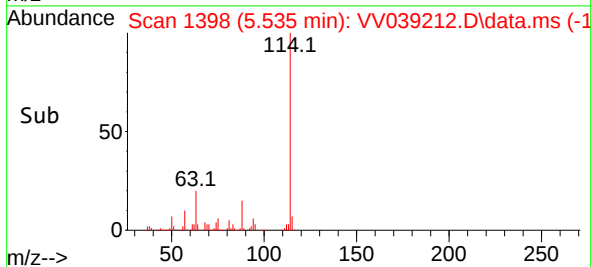
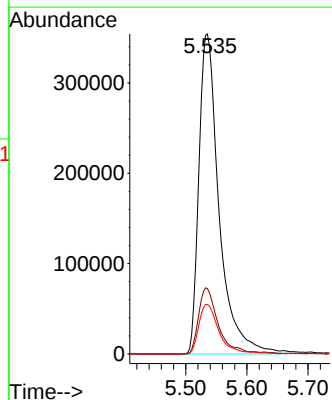
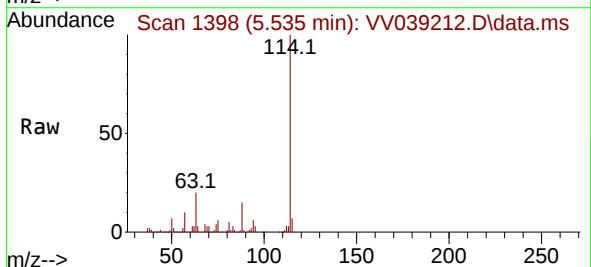
Tgt Ion: 114 Resp: 813227

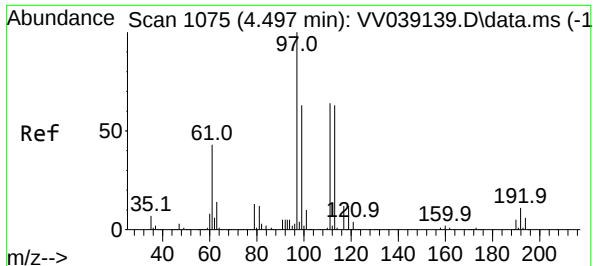
Ion Ratio Lower Upper

114 100

63 20.4 0.0 42.6

88 15.5 0.0 30.8

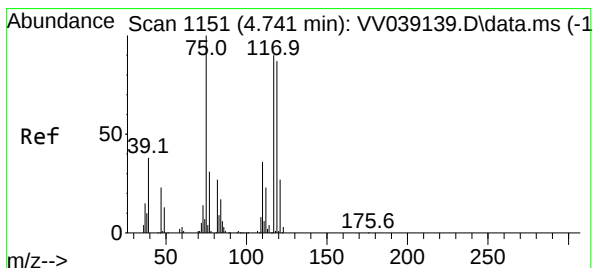
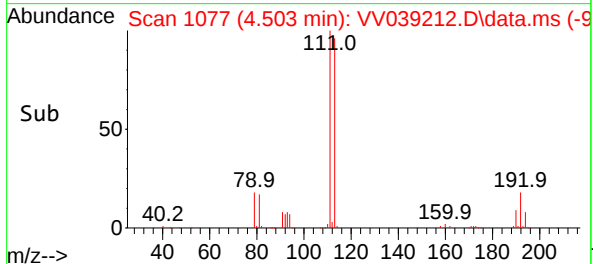
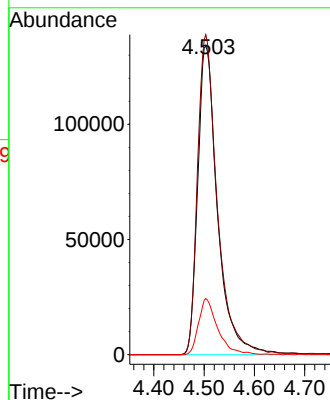
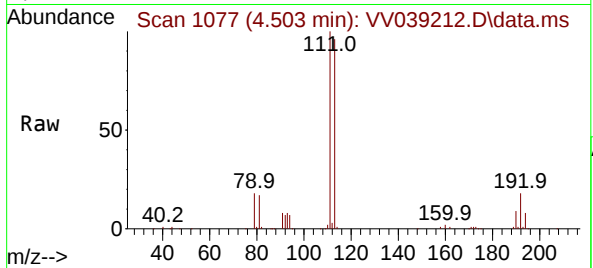




#35
Dibromofluoromethane
Concen: 56.094 ug/l
RT: 4.503 min Scan# 1106
Delta R.T. 0.006 min
Lab File: VV039212.D
Acq: 26 Sep 2025 14:58

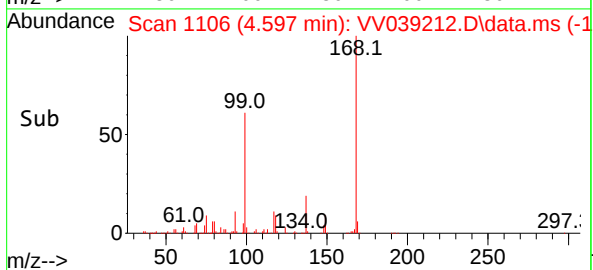
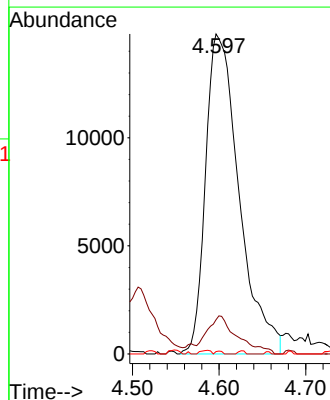
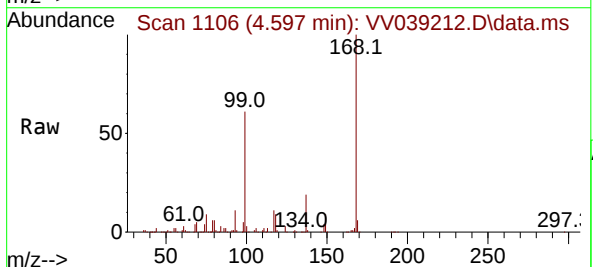
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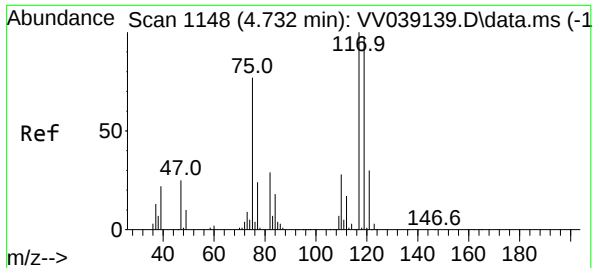
Tgt Ion:113 Resp: 366722
Ion Ratio Lower Upper
113 100
111 103.4 82.4 123.6
192 17.3 13.8 20.8



#36
1,1-Dichloropropene
Concen: 4.024 ug/l
RT: 4.597 min Scan# 1106
Delta R.T. -0.144 min
Lab File: VV039212.D
Acq: 26 Sep 2025 14:58

Tgt Ion: 75 Resp: 39775
Ion Ratio Lower Upper
75 100
110 10.7 18.1 54.1#
77 0.2 24.8 37.2#

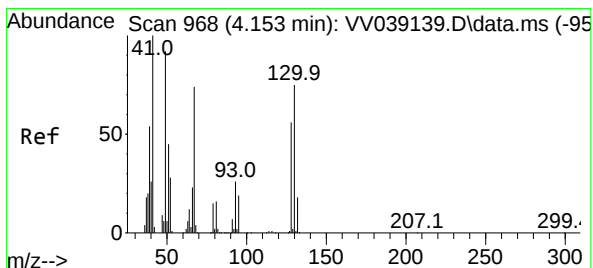
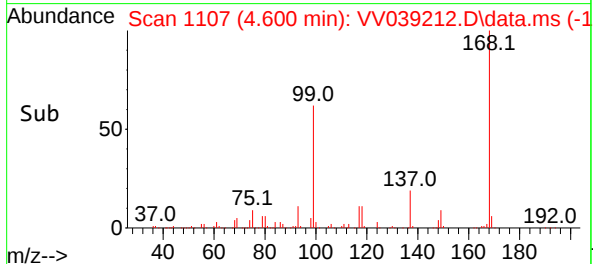
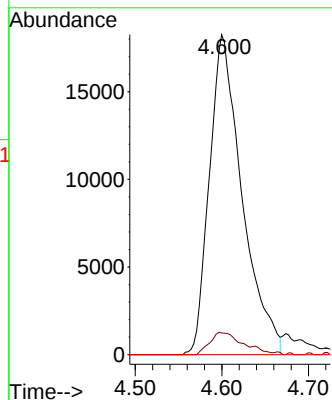
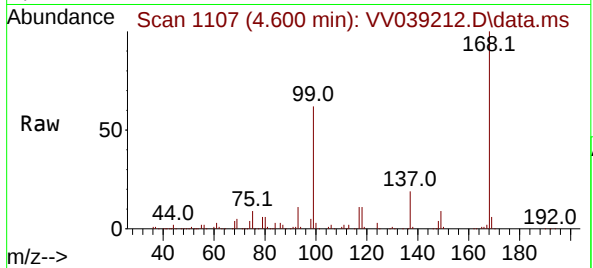




#38
Carbon Tetrachloride
Concen: 3.964 ug/l
RT: 4.600 min Scan# 1148
Delta R.T. -0.132 min
Lab File: VV039212.D
Acq: 26 Sep 2025 14:58

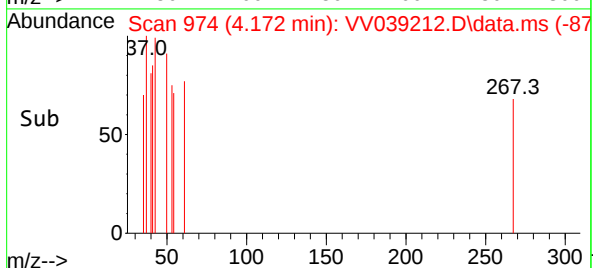
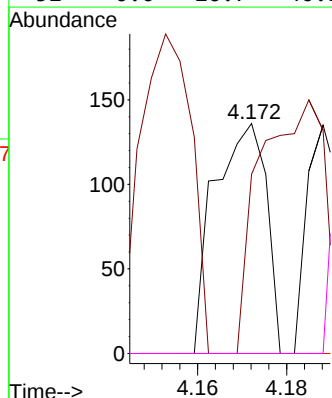
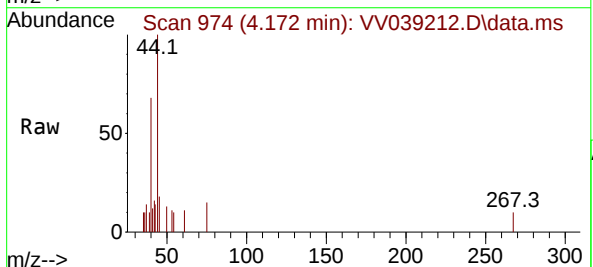
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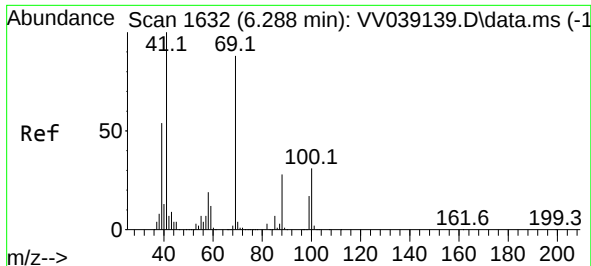
Tgt Ion:117 Resp: 47882
Ion Ratio Lower Upper
117 100
119 6.8 77.2 115.8#
121 0.0 24.2 36.2#



#41
Methacrylonitrile
Concen: 1.930 ug/l
RT: 4.172 min Scan# 974
Delta R.T. 0.019 min
Lab File: VV039212.D
Acq: 26 Sep 2025 14:58

Tgt Ion: 41 Resp: 110
Ion Ratio Lower Upper
41 100
39 135.5 42.2 63.2#
67 0.0 67.9 101.9#
52 0.0 26.7 40.1#





#49

1,4-Dioxane

Concen: 0.777 ug/l

RT: 6.371 min Scan# 1

Delta R.T. 0.084 min

Lab File: VV039212.D

Acq: 26 Sep 2025 14:58

Instrument :

MSVOA_V

ClientSampleId :

MW-26-091925-FD

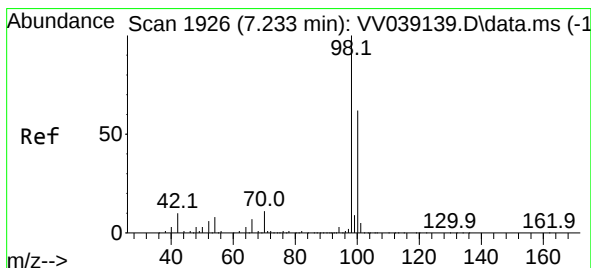
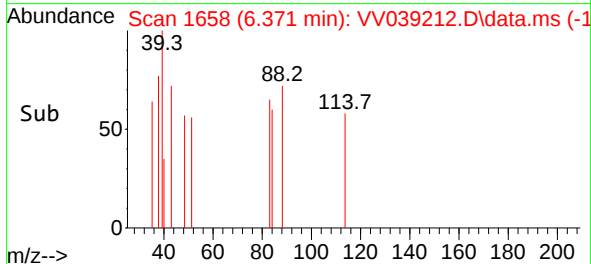
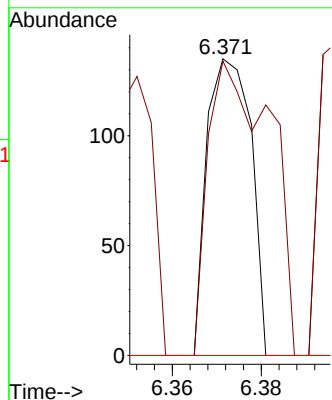
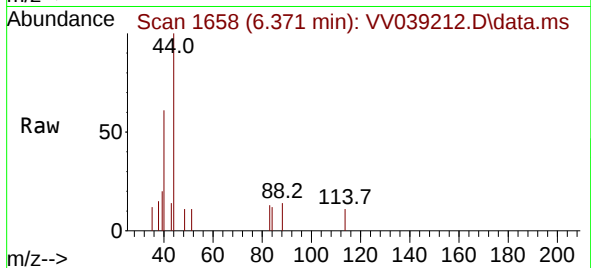
Tgt Ion: 88 Resp: 93

Ion Ratio Lower Upper

88 100

43 139.8 25.1 37.7#

58 0.0 53.6 80.4#



#50

Toluene-d8

Concen: 47.664 ug/l

RT: 7.239 min Scan# 1928

Delta R.T. 0.006 min

Lab File: VV039212.D

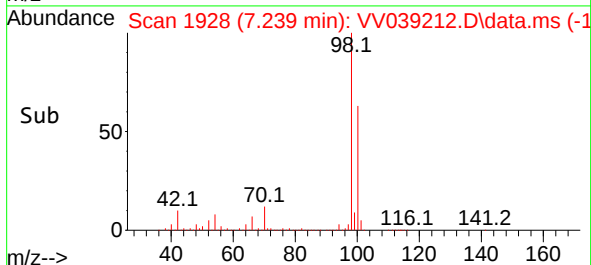
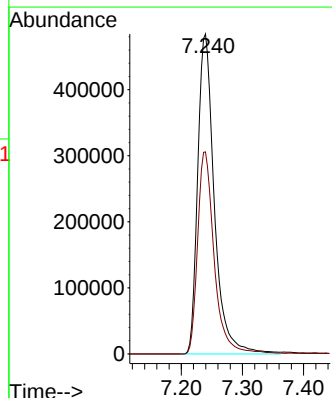
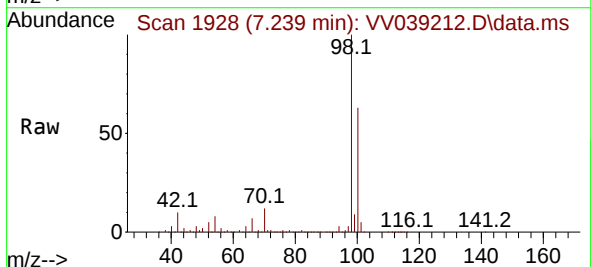
Acq: 26 Sep 2025 14:58

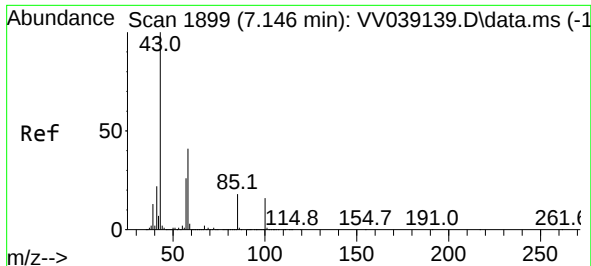
Tgt Ion: 98 Resp: 915207

Ion Ratio Lower Upper

98 100

100 63.1 52.2 78.2





#51

4-Methyl-2-Pentanone

Concen: 0.329 ug/l

RT: 7.236 min Scan# 1927

Delta R.T. 0.090 min

Lab File: VV039212.D

Acq: 26 Sep 2025 14:58

Instrument :

MSVOA_V

ClientSampleId :

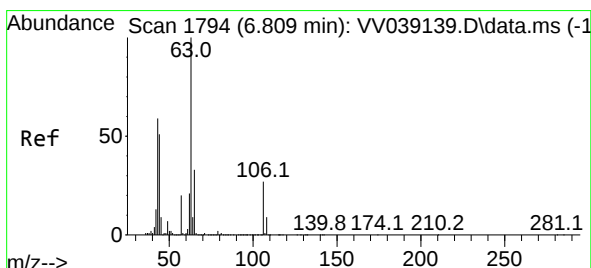
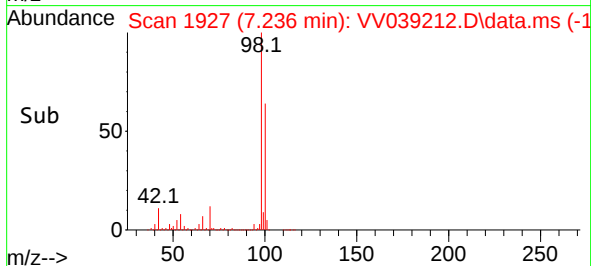
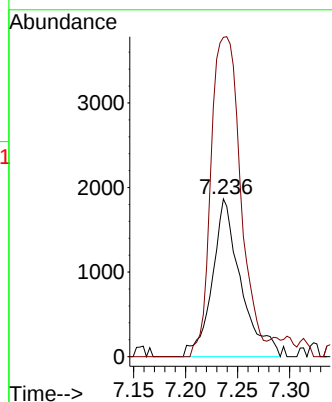
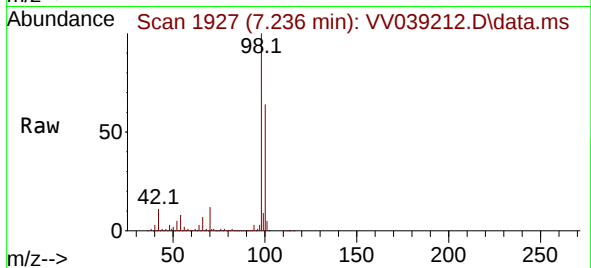
MW-26-091925-FD

Tgt Ion: 43 Resp: 3544

Ion Ratio Lower Upper

43 100

58 212.3 32.3 48.5#



#58

2-Chloroethyl Vinyl ether

Concen: 9.637 ug/l

RT: 6.802 min Scan# 1792

Delta R.T. -0.007 min

Lab File: VV039212.D

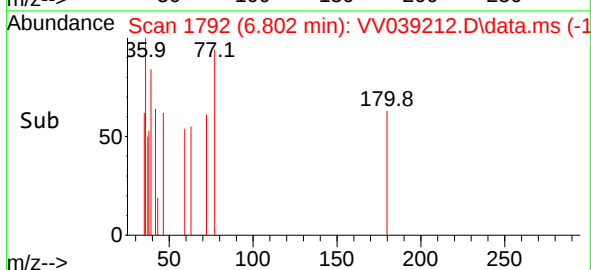
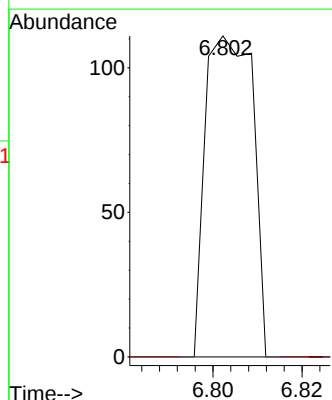
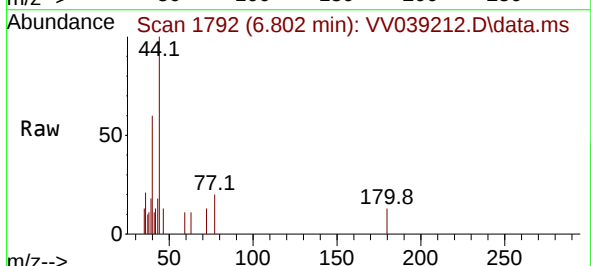
Acq: 26 Sep 2025 14:58

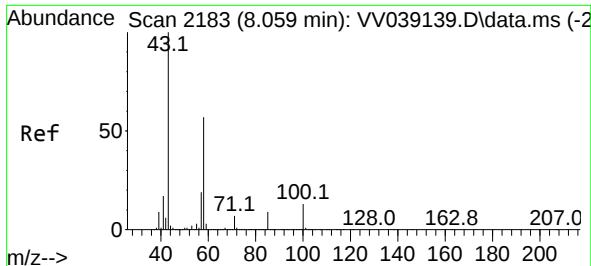
Tgt Ion: 63 Resp: 82

Ion Ratio Lower Upper

63 100

106 0.0 22.1 33.1#

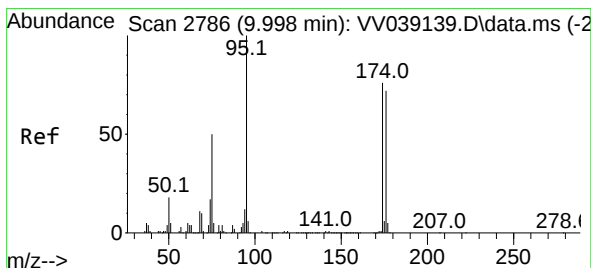
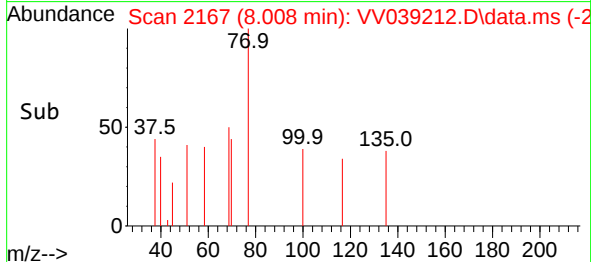
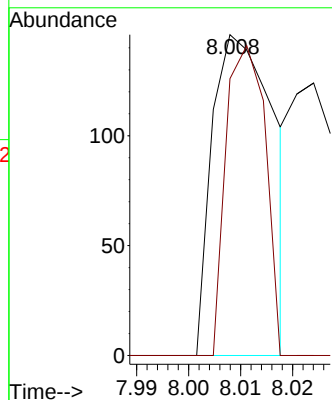
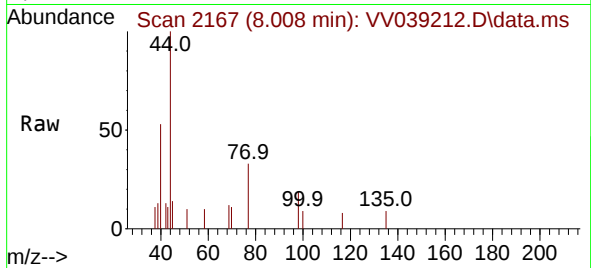




#59
2-Hexanone
Concen: 2.339 ug/l
RT: 8.008 min Scan# 2183
Delta R.T. -0.051 min
Lab File: VV039212.D
Acq: 26 Sep 2025 14:58

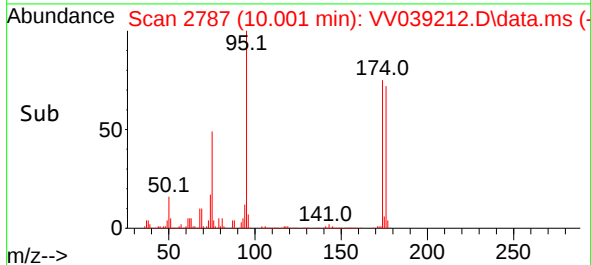
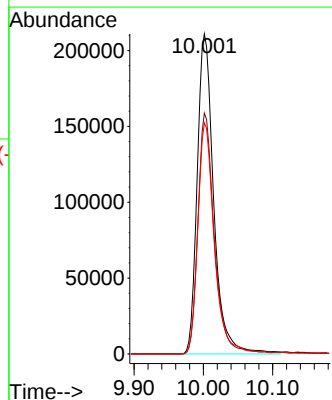
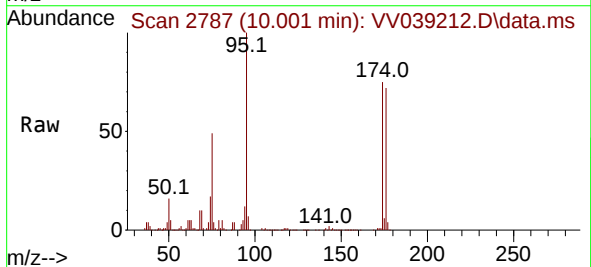
Instrument :
MSVOA_V
ClientSampleId :
MW-26-091925-FD

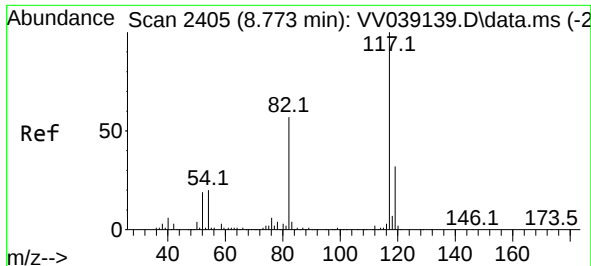
Tgt Ion: 43 Resp: 120
Ion Ratio Lower Upper
43 100
58 61.7 28.3 85.0



#62
4-Bromofluorobenzene
Concen: 44.325 ug/l
RT: 10.001 min Scan# 2787
Delta R.T. 0.003 min
Lab File: VV039212.D
Acq: 26 Sep 2025 14:58

Tgt Ion: 95 Resp: 350373
Ion Ratio Lower Upper
95 100
174 74.4 0.0 150.4
176 72.0 0.0 144.2

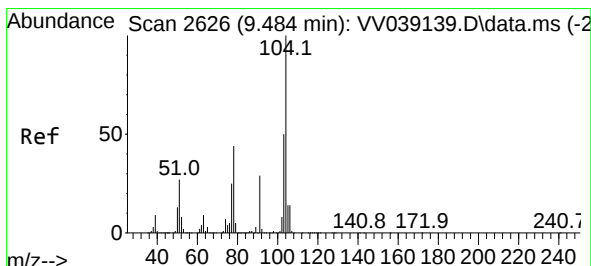
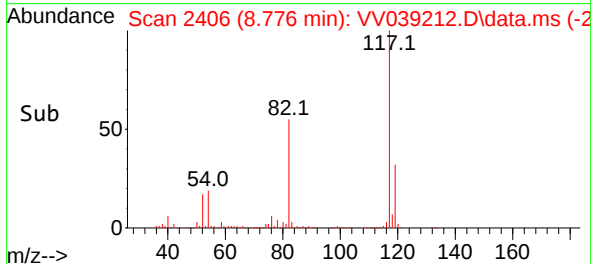
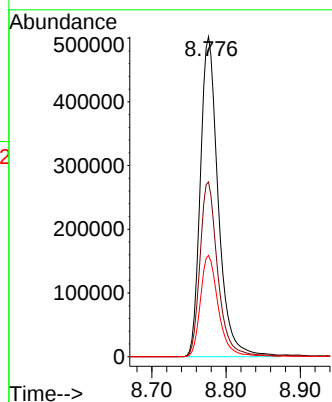
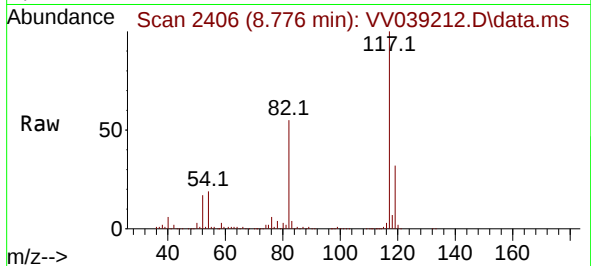




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 8.776 min Scan# 24
Delta R.T. 0.003 min
Lab File: VV039212.D
Acq: 26 Sep 2025 14:58

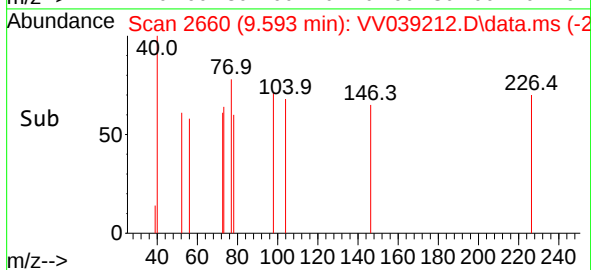
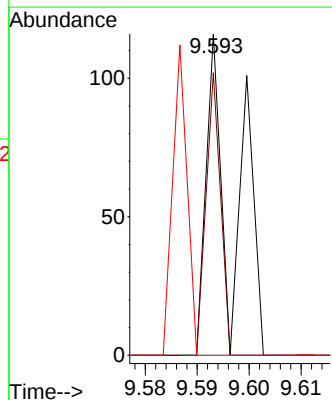
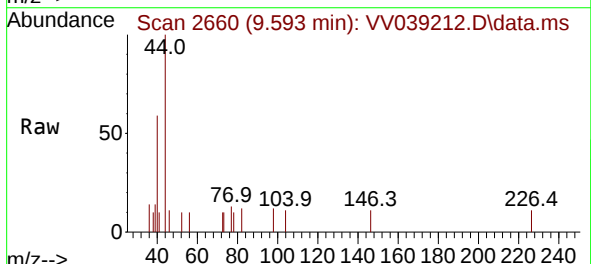
Instrument :
MSVOA_V
ClientSampleId :
MW-26-091925-FD

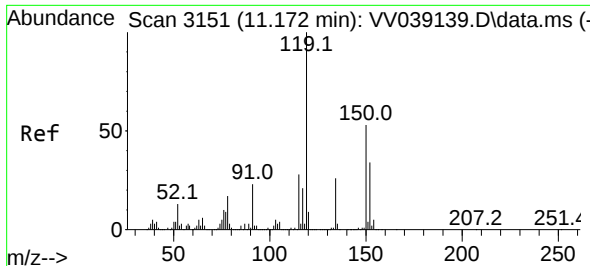
Tgt Ion:	117	Resp:	842320
Ion	Ratio	Lower	Upper
117	100		
82	54.6	45.4	68.2
119	31.6	25.6	38.4



#70
Styrene
Concen: 1.563 ug/l
RT: 9.593 min Scan# 2660
Delta R.T. 0.109 min
Lab File: VV039212.D
Acq: 26 Sep 2025 14:58

Tgt Ion:	104	Resp:	42
Ion	Ratio	Lower	Upper
104	100		
78	47.6	39.8	59.6
103	52.4	43.4	65.2



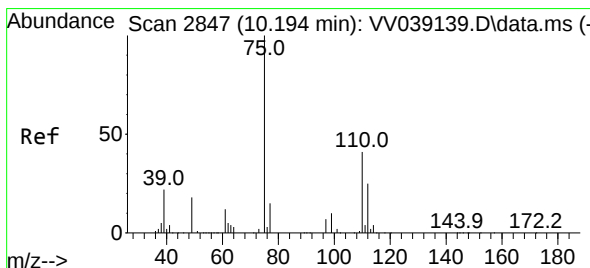
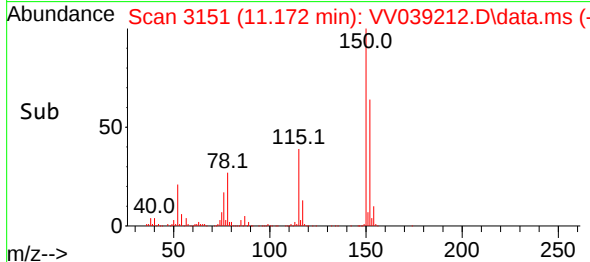
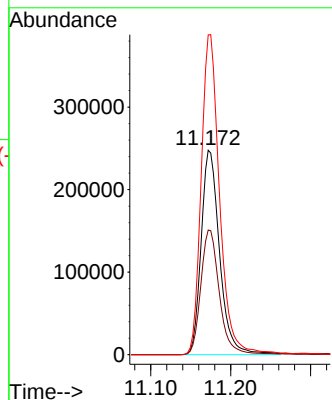
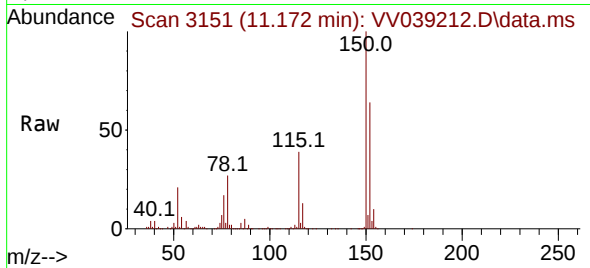


#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 11.172 min Scan# 3151
 Delta R.T. -0.000 min
 Lab File: VV039212.D
 Acq: 26 Sep 2025 14:58

Instrument :
 MSVOA_V
 ClientSampleId :
 MW-26-091925-FD

Tgt Ion:152 Resp: 398907

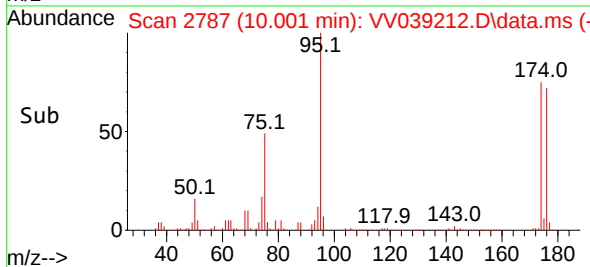
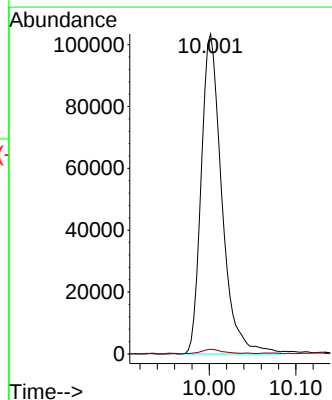
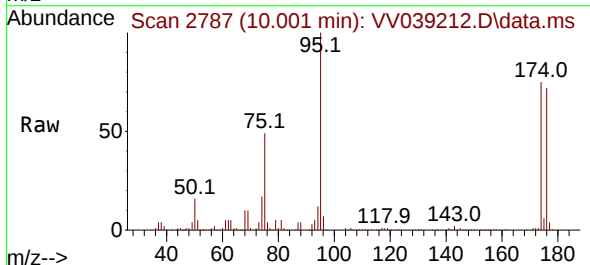
Ion	Ratio	Lower	Upper
152	100		
115	61.7	44.8	134.4
150	156.4	0.0	353.8

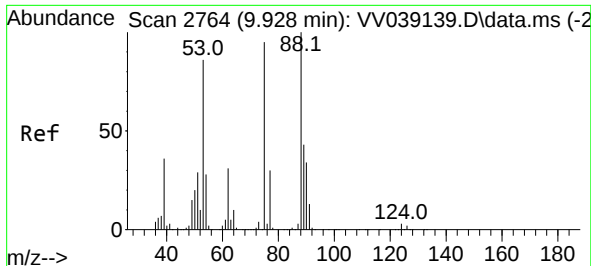


#76
 1,2,3-Trichloropropane
 Concen: 18.849 ug/l
 RT: 10.001 min Scan# 2787
 Delta R.T. -0.193 min
 Lab File: VV039212.D
 Acq: 26 Sep 2025 14:58

Tgt Ion: 75 Resp: 171194

Ion	Ratio	Lower	Upper
75	100		
77	1.6	11.3	33.8#

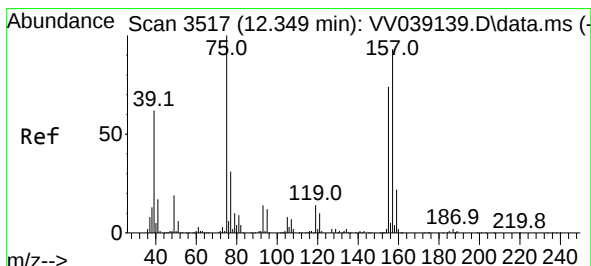
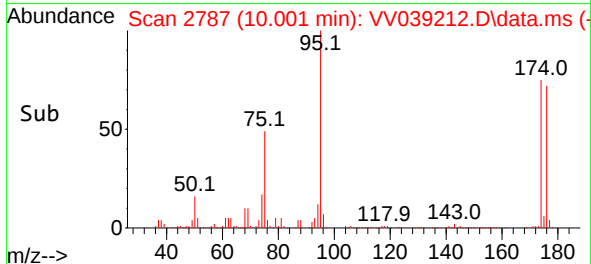
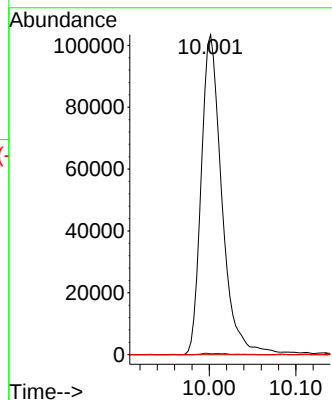
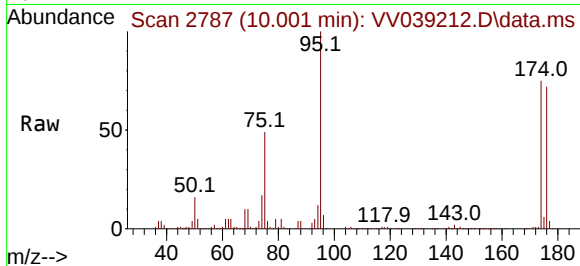




#81
trans-1,4-Dichloro-2-butene
Concen: 45.250 ug/l
RT: 10.001 min Scan# 21
Delta R.T. 0.074 min
Lab File: VV039212.D
Acq: 26 Sep 2025 14:58

Instrument :
MSVOA_V
ClientSampleId :
MW-26-091925-FD

Tgt Ion: 75 Resp: 171194
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: 12.320 min Scan# 3508
Delta R.T. -0.029 min
Lab File: VV039212.D
Acq: 26 Sep 2025 14:58

Tgt Ion: 75 Resp: 101
Ion Ratio Lower Upper
75 100
155 0.0 38.6 115.8#
157 0.0 49.5 148.3#

