

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV100325\
 Data File : VV039257.D
 Acq On : 03 Oct 2025 18:04
 Operator : SY/MD
 Sample : Q3201-02
 Misc : 5.0mL/MSVOA_V/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 MW14

Quant Time: Oct 04 01:15:12 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)

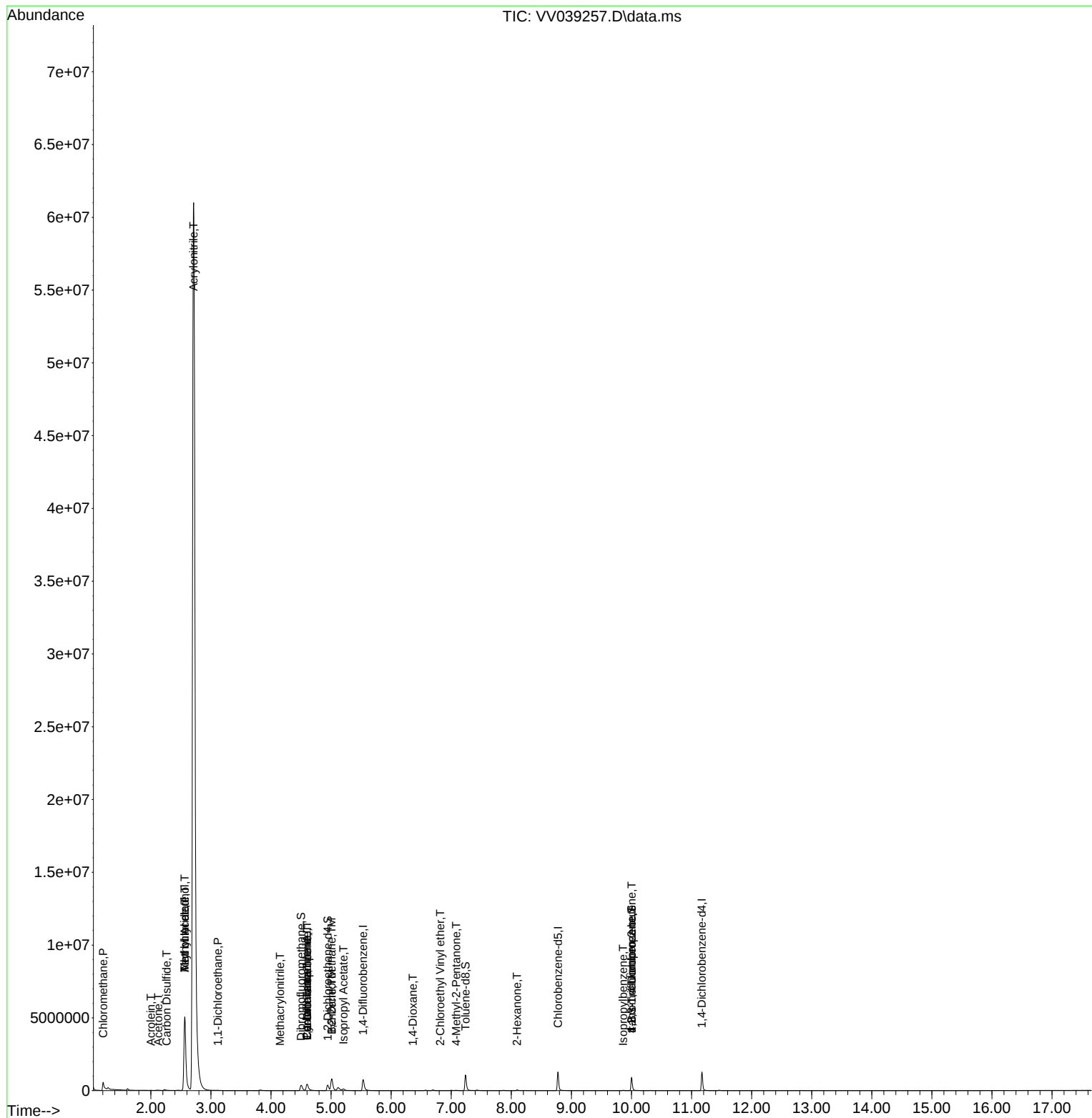
Internal Standards						
1) Pentafluorobenzene	4.600	168	381402	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	5.532	114	742495	50.000	ug/l	0.00
63) Chlorobenzene-d5	8.776	117	731184	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.172	152	341647	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.944	65	332978	60.322	ug/l	0.00
Spiked Amount	50.000	Range	81 - 118	Recovery	= 120.640%#	
35) Dibromofluoromethane	4.500	113	316752	53.066	ug/l	0.00
Spiked Amount	50.000	Range	80 - 119	Recovery	= 106.140%	
50) Toluene-d8	7.236	98	781078	44.554	ug/l	0.00
Spiked Amount	50.000	Range	89 - 112	Recovery	= 89.100%	
62) 4-Bromofluorobenzene	10.001	95	308485	42.744	ug/l	0.00
Spiked Amount	50.000	Range	85 - 114	Recovery	= 85.480%	
Target Compounds						
					Qvalue	
3) Chloromethane	1.208	50	18099	2.792	ug/l #	52
11) Tert butyl alcohol	2.564	59	6739313	5776.520	ug/l	99
13) Acrolein	2.002	56	146	0.721	ug/l #	1
14) Allyl chloride	2.564	41	1407779	137.049	ug/l #	60
15) Acrylonitrile	2.712	53	1154637	308.730	ug/l #	29
16) Acetone	2.124	43	20013	1.223	ug/l	97
17) Carbon Disulfide	2.262	76	15123	0.860	ug/l #	94
18) Methyl Acetate	2.564	43	913737	111.720	ug/l #	52
20) Methylene Chloride	2.458	84	1538	Below Cal	#	69
24) 1,1-Dichloroethane	3.117	63	3734	0.311	ug/l #	83
31) Cyclohexane	4.600	56	8504	0.864	ug/l #	1
36) 1,1-Dichloropropene	4.603	75	32095	3.556	ug/l #	47
38) Carbon Tetrachloride	4.600	117	42034	3.811	ug/l #	16
40) Benzene	5.011	78	934249	31.791	ug/l	98
41) Methacrylonitrile	4.150	41	284	1.966	ug/l #	35
42) 1,2-Dichloroethane	5.008	62	8312	0.807	ug/l #	74
43) Isopropyl Acetate	5.204	43	32850	2.200	ug/l #	15
49) 1,4-Dioxane	6.362	88	22	0.201	ug/l #	1
51) 4-Methyl-2-Pentanone	7.082	43	4712	0.480	ug/l	89
58) 2-Chloroethyl Vinyl ether	6.818	63	101	9.642	ug/l #	47
59) 2-Hexanone	8.095	43	2609	2.652	ug/l	66
73) Isopropylbenzene	9.860	105	14732	0.595	ug/l	99
76) 1,2,3-Trichloropropane	10.001	75	149194	19.180	ug/l #	56
81) trans-1,4-Dichloro-2-b...	10.001	75	149194	46.044	ug/l #	13
92) 1,2-Dibromo-3-Chloropr...	12.374	75	110	Below Cal	#	5

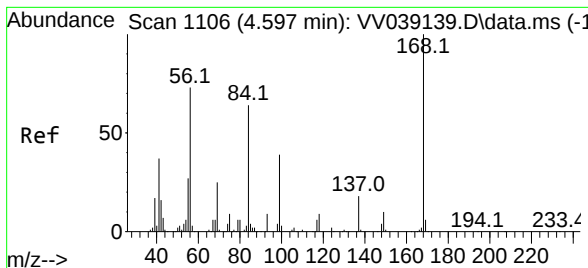
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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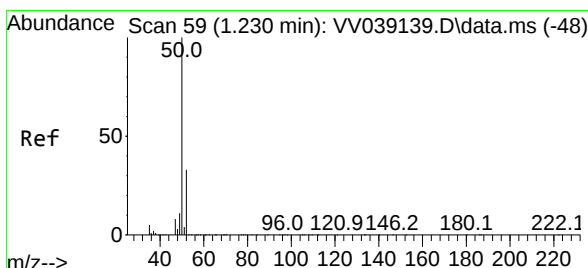
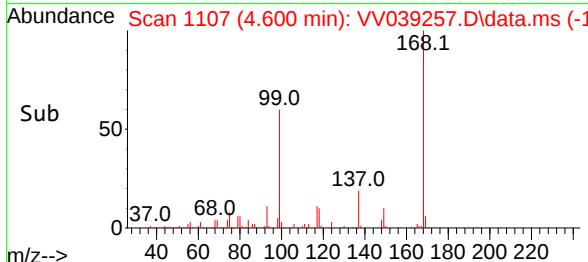
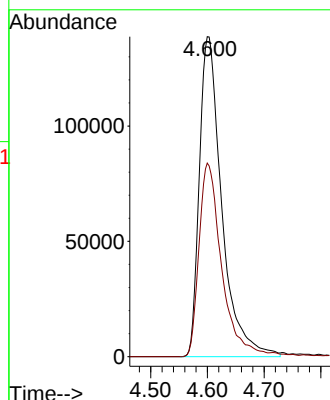
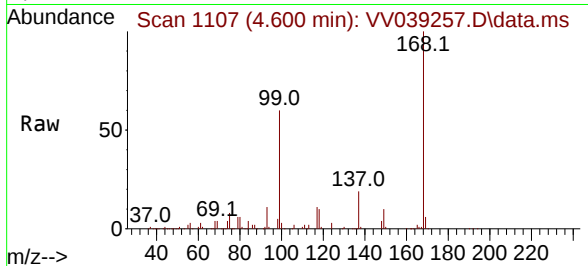




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 4.600 min Scan# 11
Delta R.T. 0.003 min
Lab File: VV039257.D
Acq: 03 Oct 2025 18:04

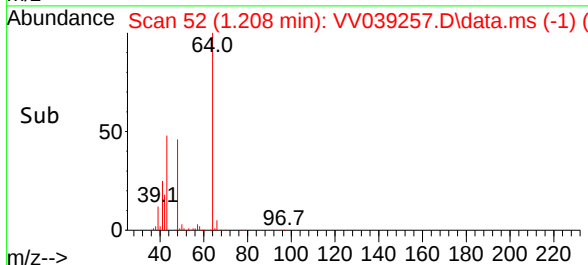
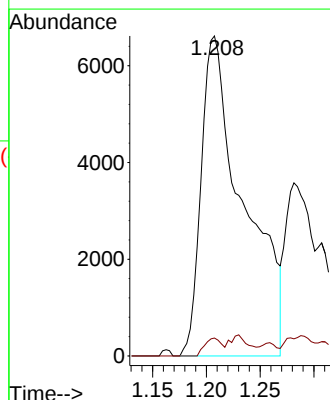
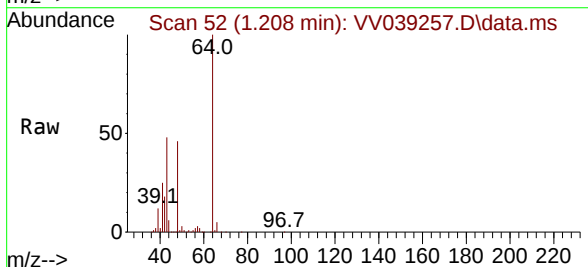
Instrument :
MSVOA_V
ClientSampleId :
MW14

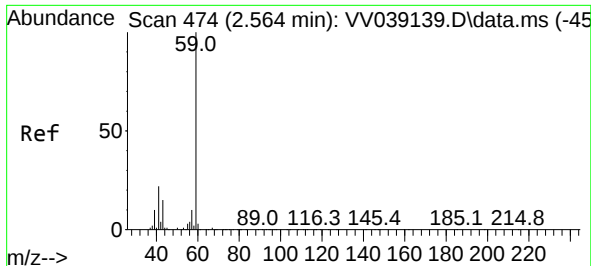
Tgt Ion:168 Resp: 381402
Ion Ratio Lower Upper
168 100
99 60.5 49.6 74.4



#3
Chloromethane
Concen: 2.792 ug/l
RT: 1.208 min Scan# 52
Delta R.T. -0.023 min
Lab File: VV039257.D
Acq: 03 Oct 2025 18:04

Tgt Ion: 50 Resp: 18099
Ion Ratio Lower Upper
50 100
52 5.6 26.0 39.0#

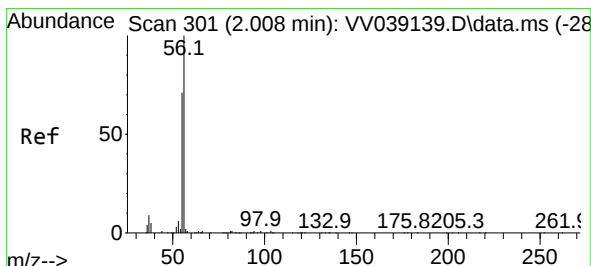
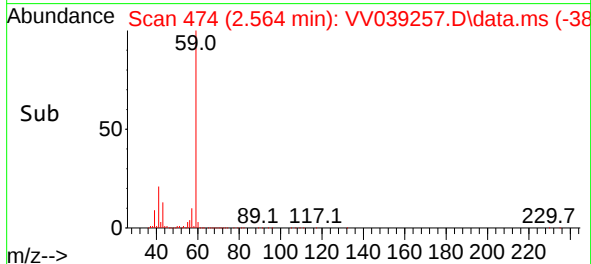
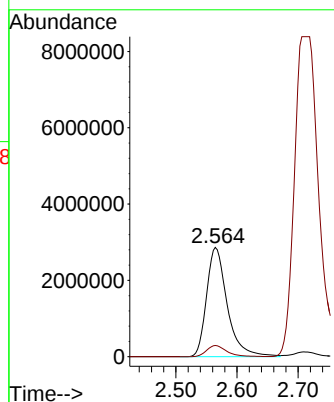
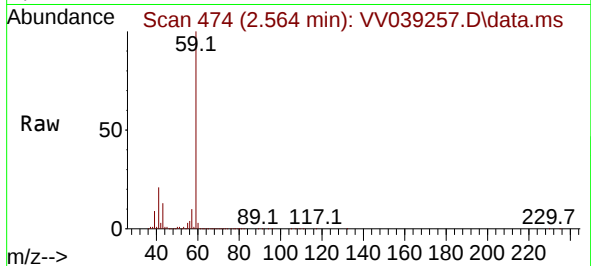




#11
Tert butyl alcohol
Concen: 5776.520 ug/l
RT: 2.564 min Scan# 41
Delta R.T. -0.000 min
Lab File: VV039257.D
Acq: 03 Oct 2025 18:04

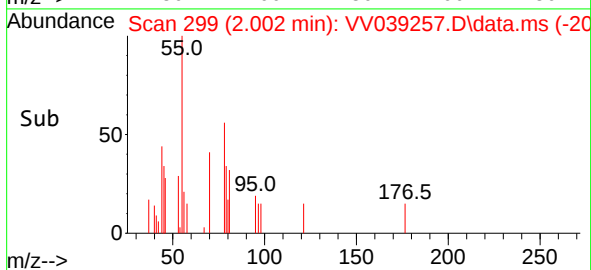
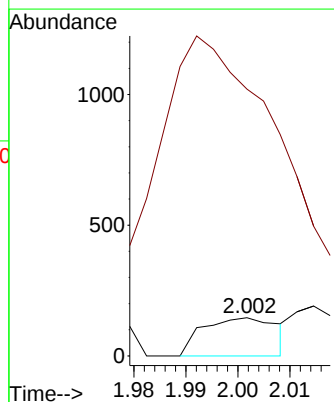
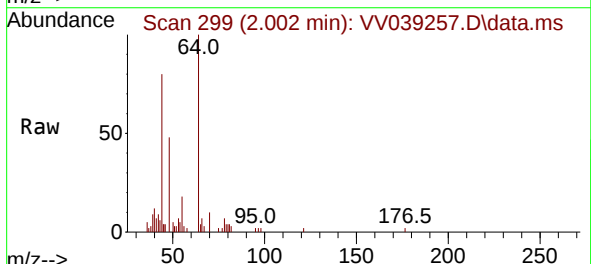
Instrument :
MSVOA_V
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MW14

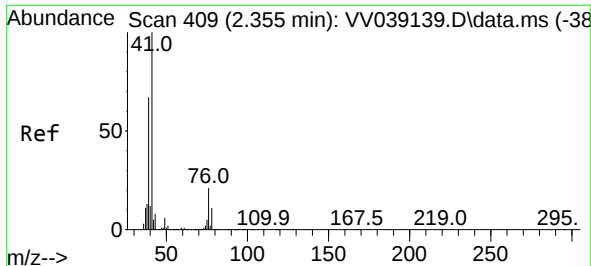
Tgt Ion: 59 Resp: 6739313
Ion Ratio Lower Upper
59 100
57 10.2 7.8 11.8



#13
Acrolein
Concen: 0.721 ug/l
RT: 2.002 min Scan# 299
Delta R.T. -0.006 min
Lab File: VV039257.D
Acq: 03 Oct 2025 18:04

Tgt Ion: 56 Resp: 146
Ion Ratio Lower Upper
56 100
55 1403.4 56.2 84.4#

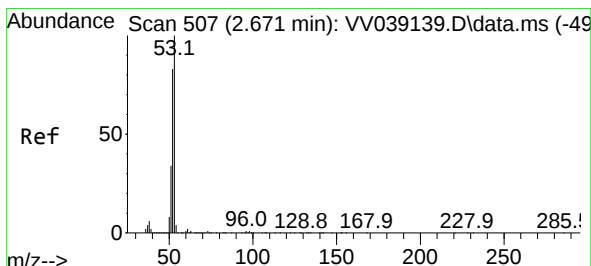
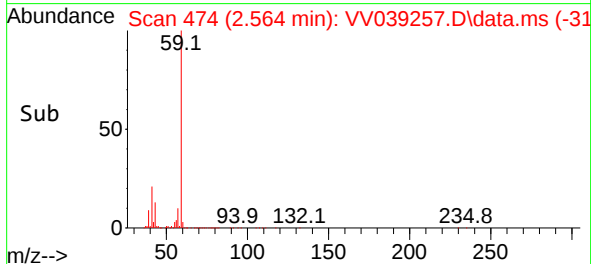
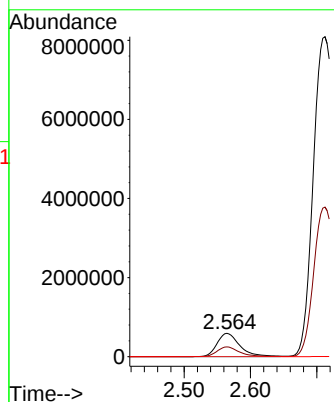
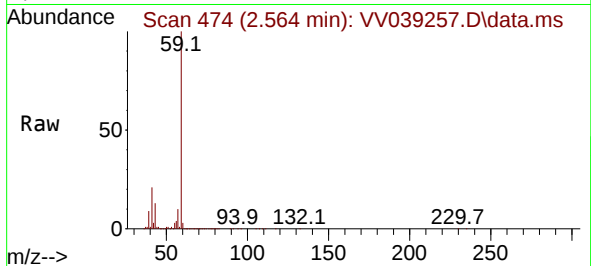




#14
Allyl chloride
Concen: 137.049 ug/l
RT: 2.564 min Scan# 41
Delta R.T. 0.209 min
Lab File: VV039257.D
Acq: 03 Oct 2025 18:04

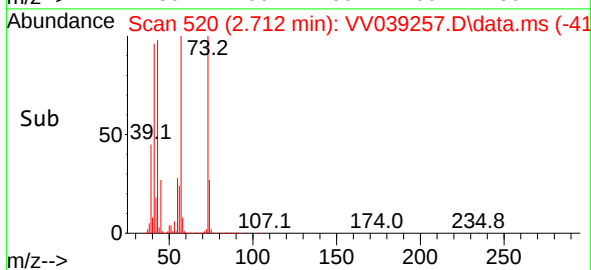
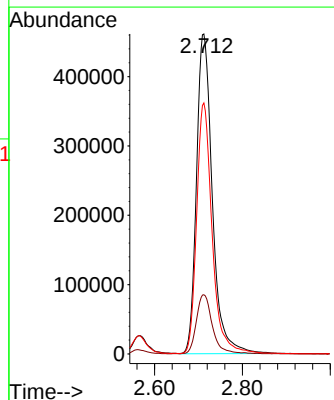
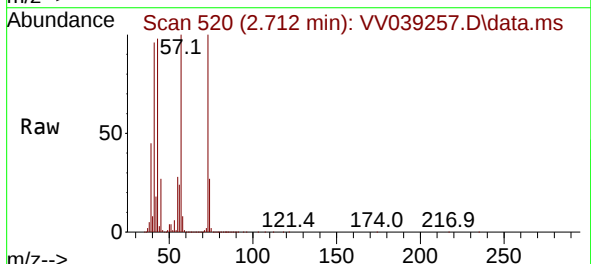
Instrument :
MSVOA_V
ClientSampleId :
MW14

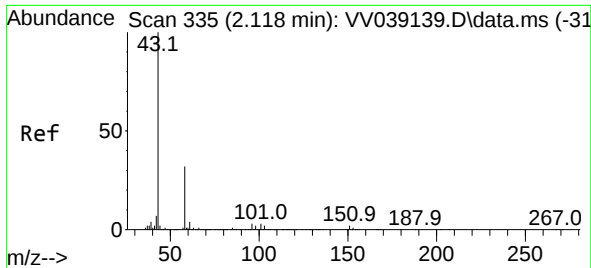
Tgt Ion: 41 Resp: 1407779
Ion Ratio Lower Upper
41 100
39 42.0 51.0 76.6#
76 0.0 28.2 42.4#



#15
Acrylonitrile
Concen: 308.730 ug/l
RT: 2.712 min Scan# 520
Delta R.T. 0.042 min
Lab File: VV039257.D
Acq: 03 Oct 2025 18:04

Tgt Ion: 53 Resp: 1154637
Ion Ratio Lower Upper
53 100
52 18.4 66.1 99.1#
51 76.4 28.5 42.7#

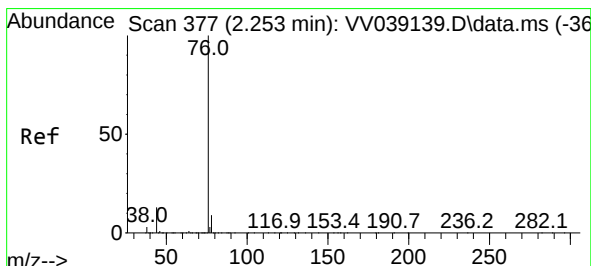
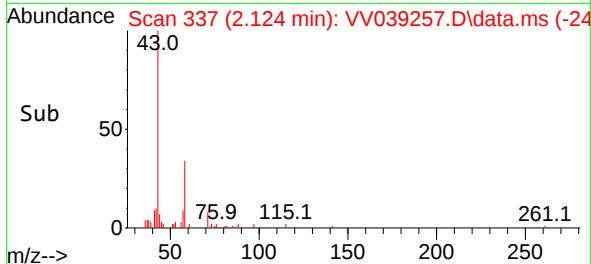
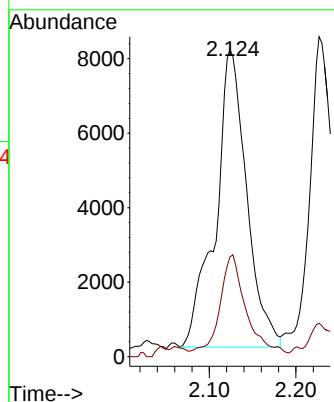
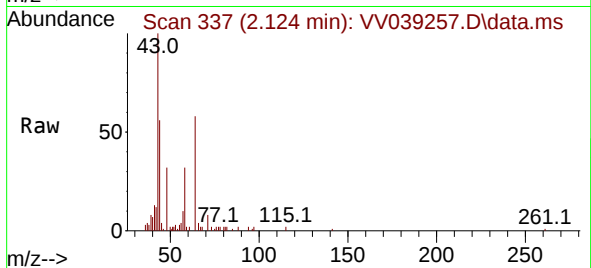




#16
Acetone
Concen: 1.223 ug/l
RT: 2.124 min Scan# 31
Delta R.T. 0.006 min
Lab File: VV039257.D
Acq: 03 Oct 2025 18:04

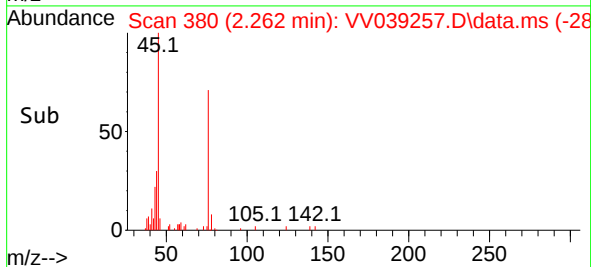
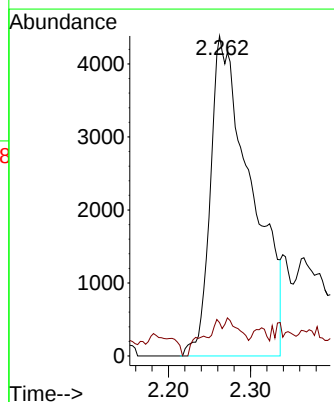
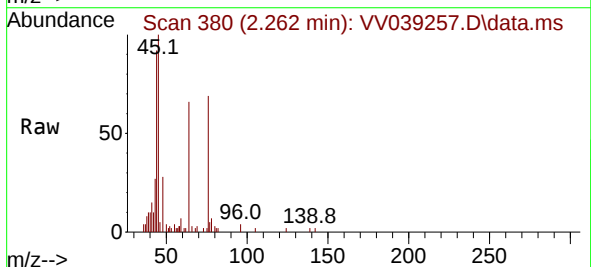
Instrument :
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ClientSampleId :
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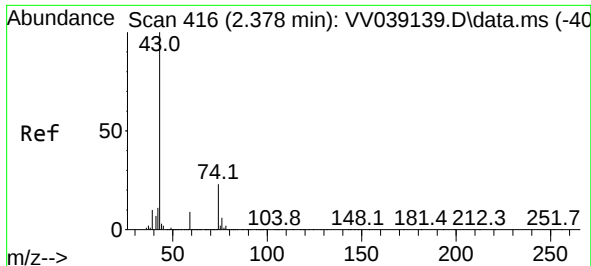
Tgt Ion: 43 Resp: 20013
Ion Ratio Lower Upper
43 100
58 30.6 25.8 38.6



#17
Carbon Disulfide
Concen: 0.860 ug/l
RT: 2.262 min Scan# 380
Delta R.T. 0.010 min
Lab File: VV039257.D
Acq: 03 Oct 2025 18:04

Tgt Ion: 76 Resp: 15123
Ion Ratio Lower Upper
76 100
78 7.1 7.4 11.0#

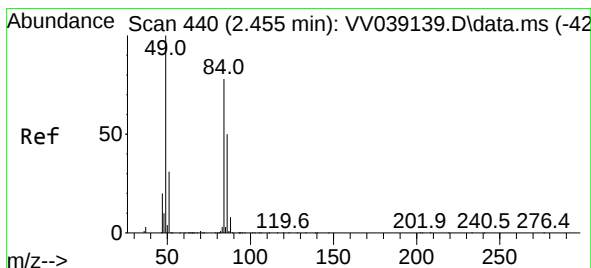
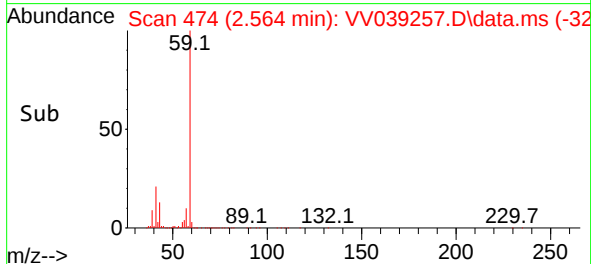
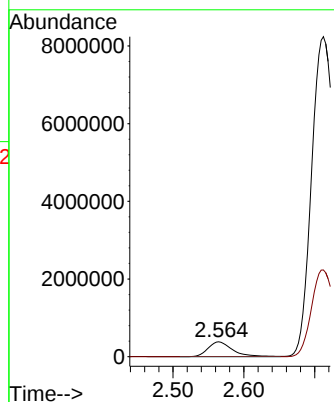
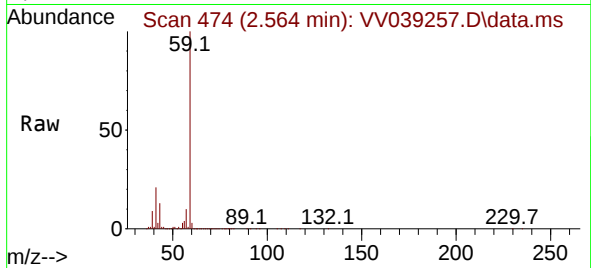




#18
Methyl Acetate
Concen: 111.720 ug/l
RT: 2.564 min Scan# 41
Delta R.T. 0.186 min
Lab File: VV039257.D
Acq: 03 Oct 2025 18:04

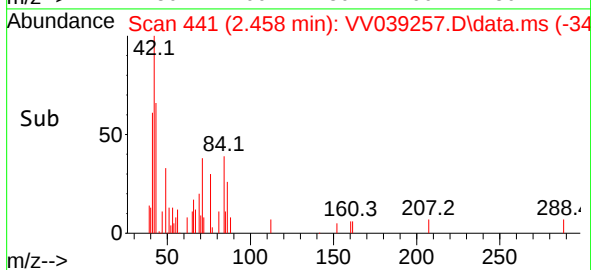
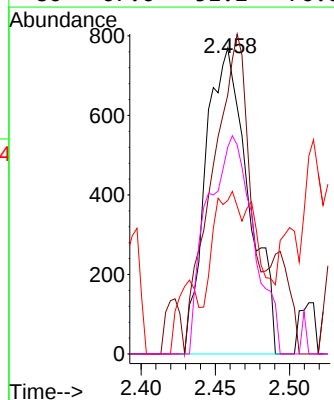
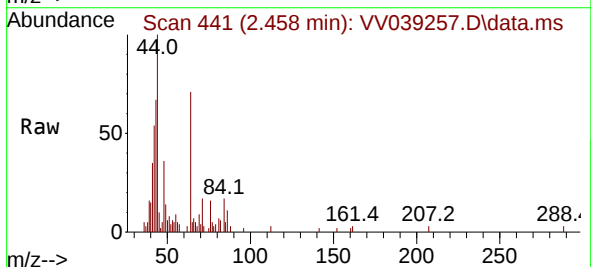
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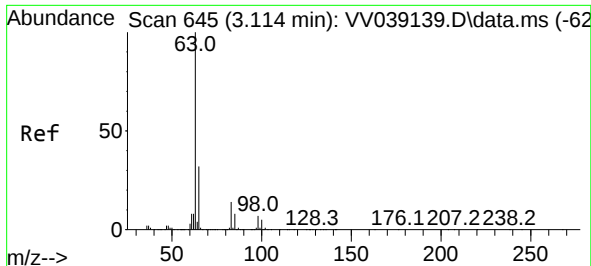
Tgt Ion: 43 Resp: 913737
Ion Ratio Lower Upper
43 100
74 0.0 18.6 27.8#



#20
Methylene Chloride
Concen: Below Cal
RT: 2.458 min Scan# 441
Delta R.T. 0.003 min
Lab File: VV039257.D
Acq: 03 Oct 2025 18:04

Tgt Ion: 84 Resp: 1538
Ion Ratio Lower Upper
84 100
49 71.4 102.8 154.2#
51 31.3 31.9 47.9#
86 67.6 51.2 76.8

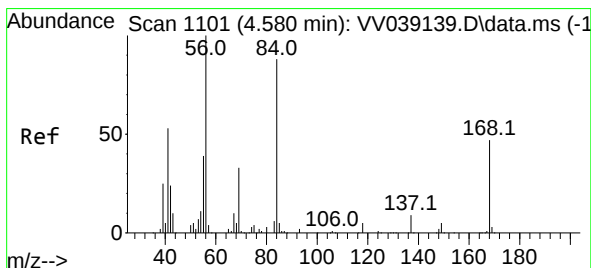
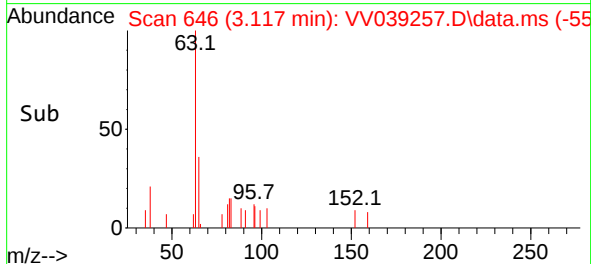
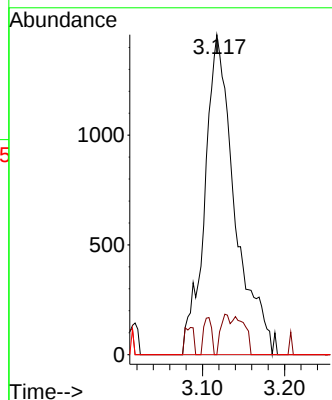
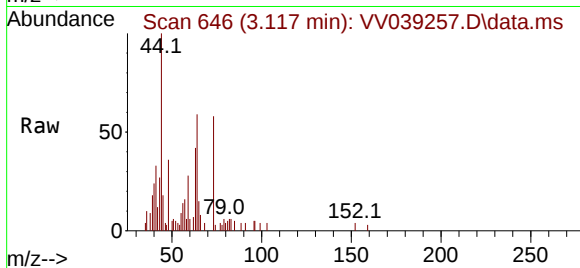




#24
1,1-Dichloroethane
Concen: 0.311 ug/l
RT: 3.117 min Scan# 64
Delta R.T. 0.003 min
Lab File: VV039257.D
Acq: 03 Oct 2025 18:04

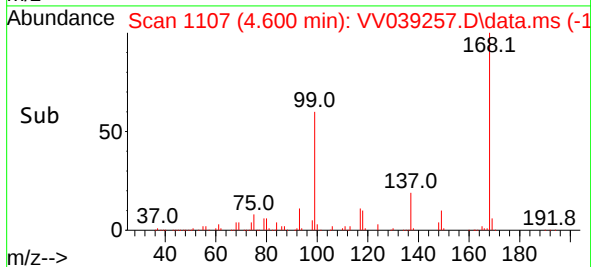
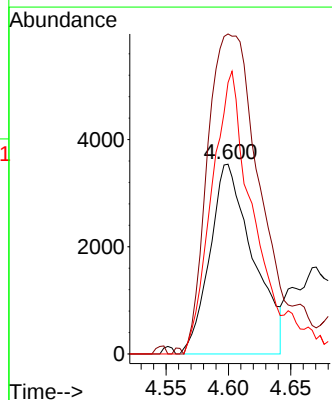
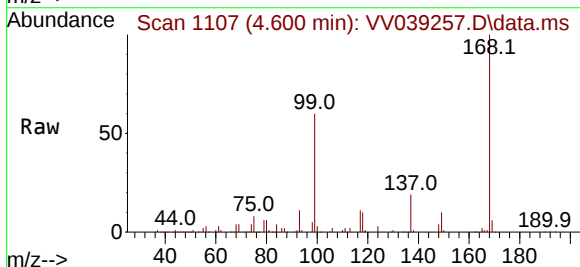
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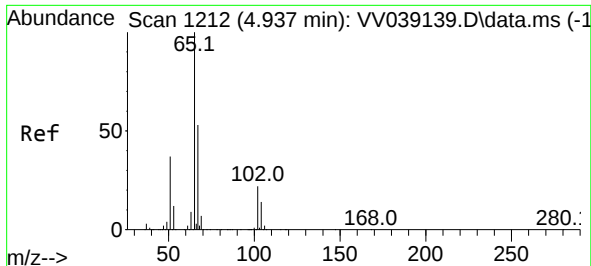
Tgt Ion: 63 Resp: 3734
Ion Ratio Lower Upper
63 100
98 0.0 3.4 10.2#
100 0.0 2.2 6.6#



#31
Cyclohexane
Concen: 0.864 ug/l
RT: 4.600 min Scan# 1107
Delta R.T. 0.019 min
Lab File: VV039257.D
Acq: 03 Oct 2025 18:04

Tgt Ion: 56 Resp: 8504
Ion Ratio Lower Upper
56 100
69 165.6 26.2 39.2#
84 143.0 70.3 105.5#





#33

1,2-Dichloroethane-d4

Concen: 60.322 ug/l

RT: 4.944 min Scan# 1214

Delta R.T. 0.006 min

Lab File: VV039257.D

Acq: 03 Oct 2025 18:04

Instrument :

MSVOA_V

ClientSampleId :

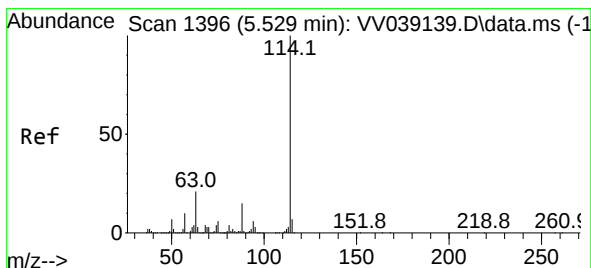
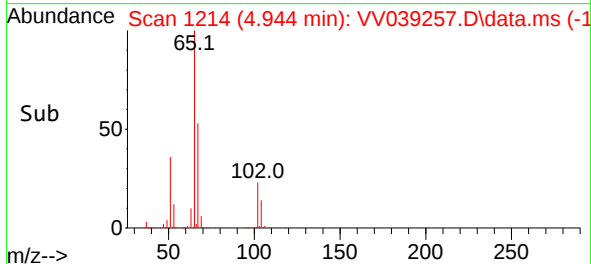
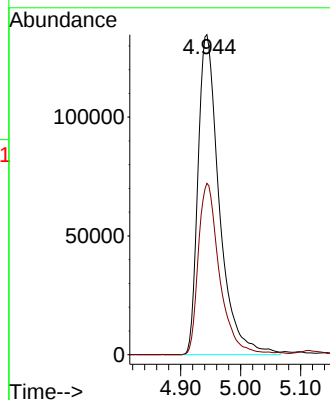
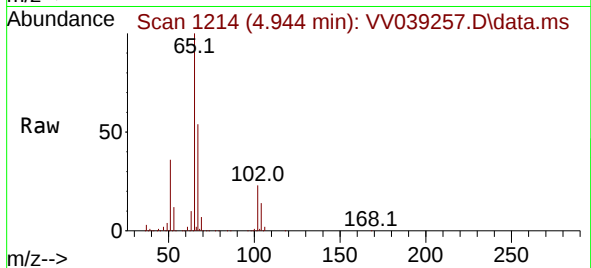
MW14

Tgt Ion: 65 Resp: 332978

Ion Ratio Lower Upper

65 100

67 53.1 0.0 107.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.532 min Scan# 1397

Delta R.T. 0.003 min

Lab File: VV039257.D

Acq: 03 Oct 2025 18:04

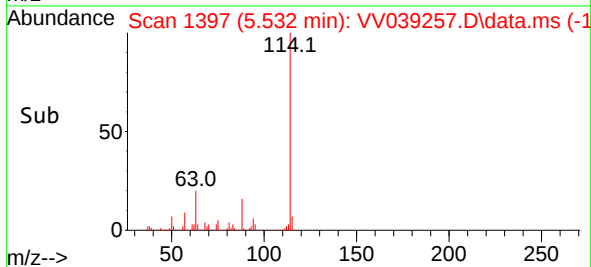
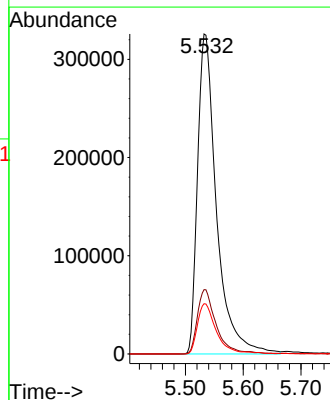
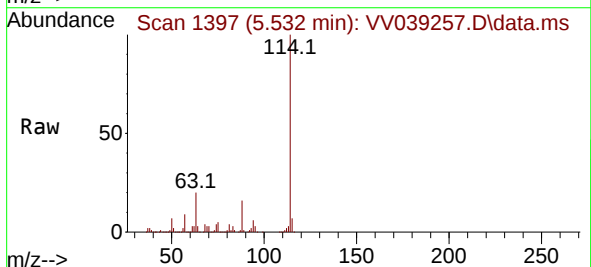
Tgt Ion: 114 Resp: 742495

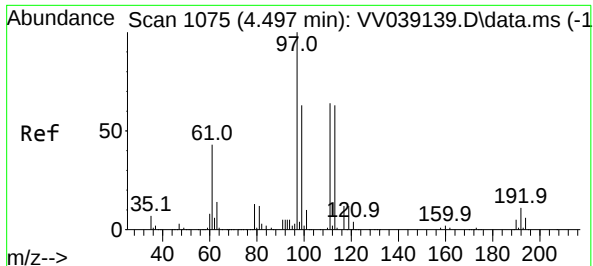
Ion Ratio Lower Upper

114 100

63 20.1 0.0 42.6

88 15.7 0.0 30.8

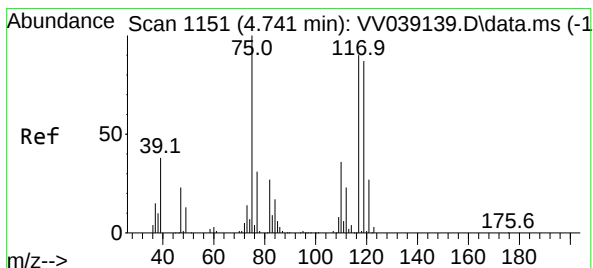
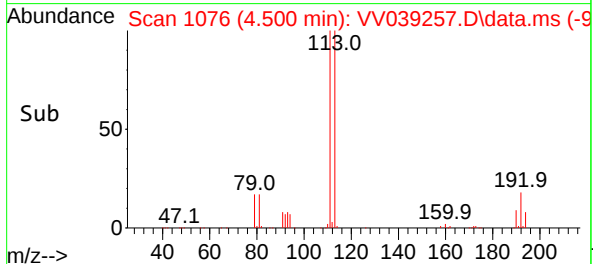
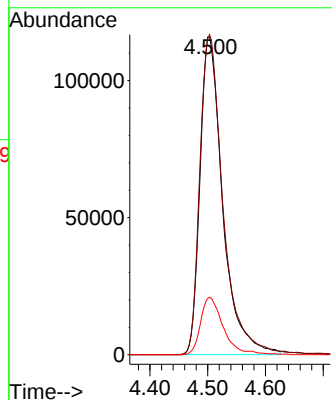
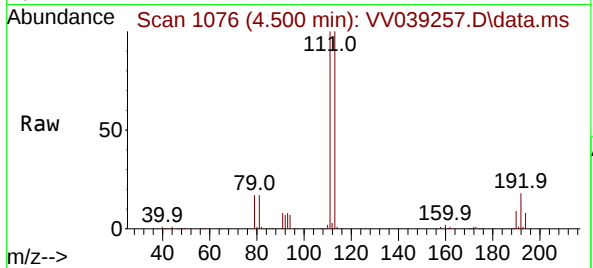




#35
Dibromofluoromethane
Concen: 53.066 ug/l
RT: 4.500 min Scan# 1108
Delta R.T. 0.003 min
Lab File: VV039257.D
Acq: 03 Oct 2025 18:04

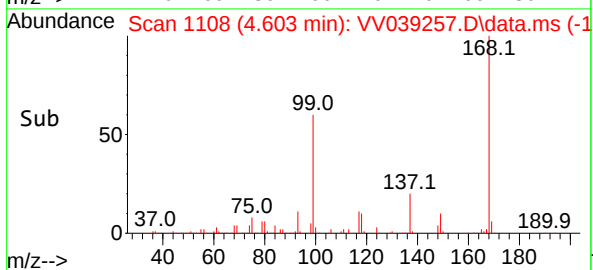
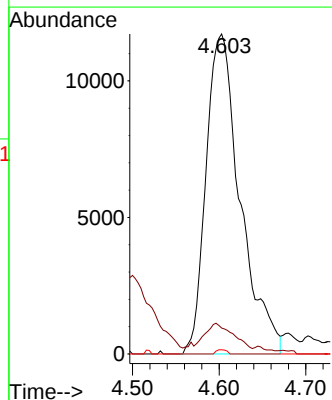
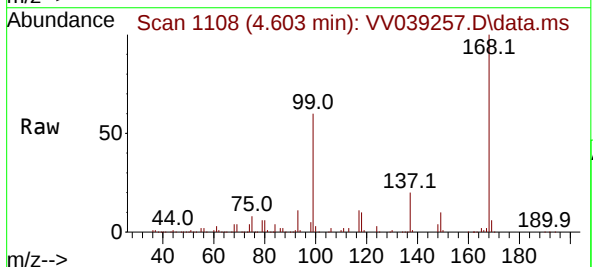
Instrument :
MSVOA_V
ClientSampleId :
MW14

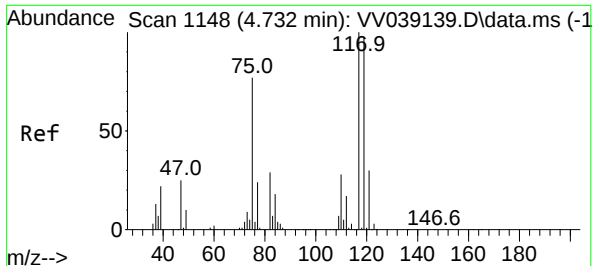
Tgt Ion:113 Resp: 316752
Ion Ratio Lower Upper
113 100
111 102.9 82.4 123.6
192 17.4 13.8 20.8



#36
1,1-Dichloropropene
Concen: 3.556 ug/l
RT: 4.603 min Scan# 1108
Delta R.T. -0.138 min
Lab File: VV039257.D
Acq: 03 Oct 2025 18:04

Tgt Ion: 75 Resp: 32095
Ion Ratio Lower Upper
75 100
110 7.1 18.1 54.1#
77 0.0 24.8 37.2#

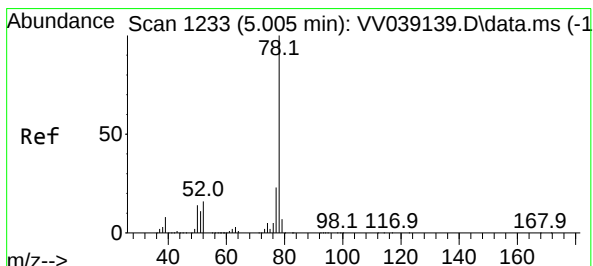
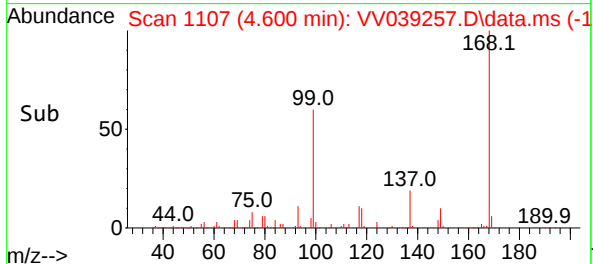
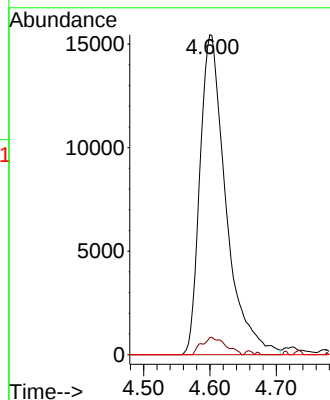
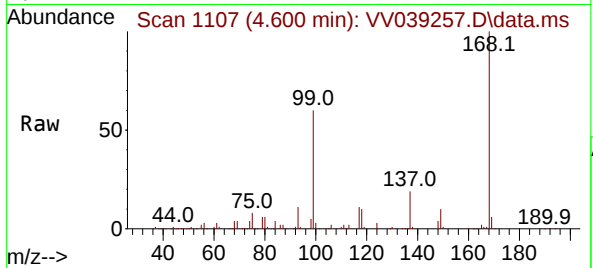




#38
Carbon Tetrachloride
Concen: 3.811 ug/l
RT: 4.600 min Scan# 1148
Delta R.T. -0.132 min
Lab File: VV039257.D
Acq: 03 Oct 2025 18:04

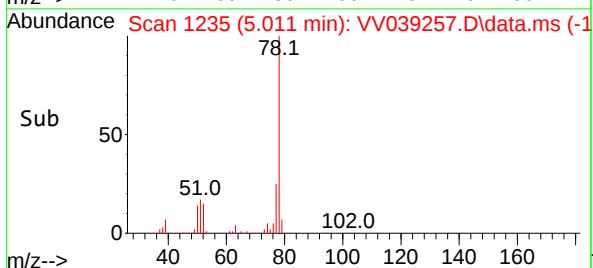
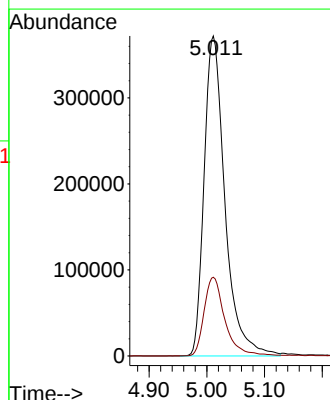
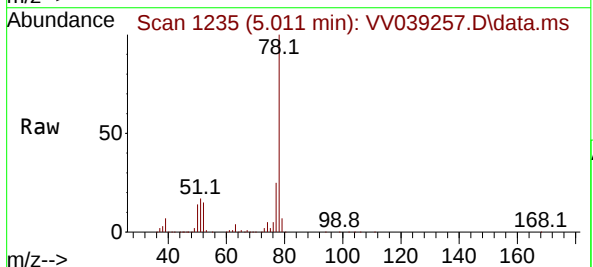
Instrument :
MSVOA_V
ClientSampleId :
MW14

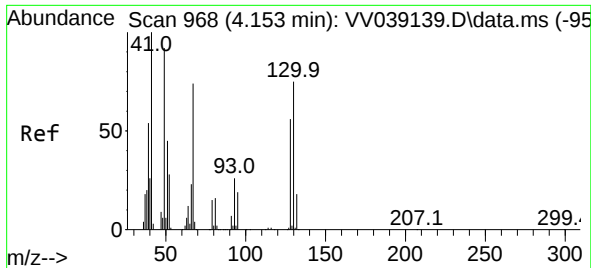
Tgt Ion:117 Resp: 42034
Ion Ratio Lower Upper
117 100
119 5.3 77.2 115.8#
121 0.0 24.2 36.2#



#40
Benzene
Concen: 31.791 ug/l
RT: 5.011 min Scan# 1235
Delta R.T. 0.006 min
Lab File: VV039257.D
Acq: 03 Oct 2025 18:04

Tgt Ion: 78 Resp: 934249
Ion Ratio Lower Upper
78 100
77 24.6 18.7 28.1

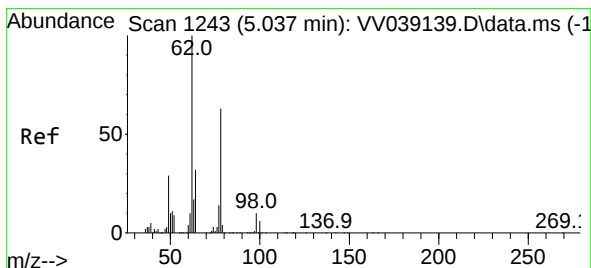
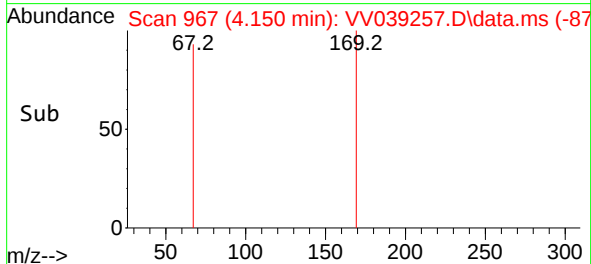
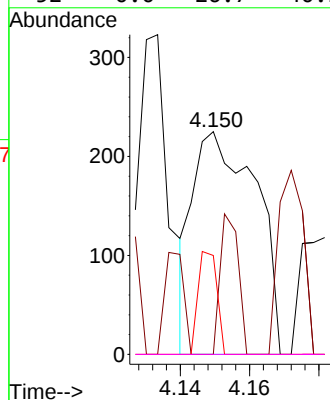
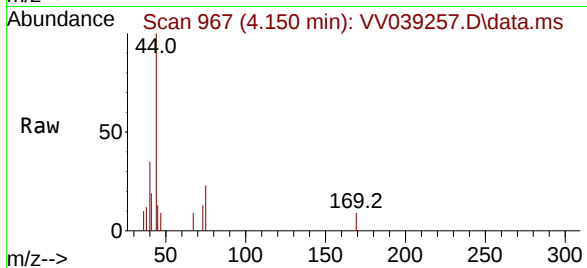




#41
Methacrylonitrile
Concen: 1.966 ug/l
RT: 4.150 min Scan# 90
Delta R.T. -0.003 min
Lab File: VV039257.D
Acq: 03 Oct 2025 18:04

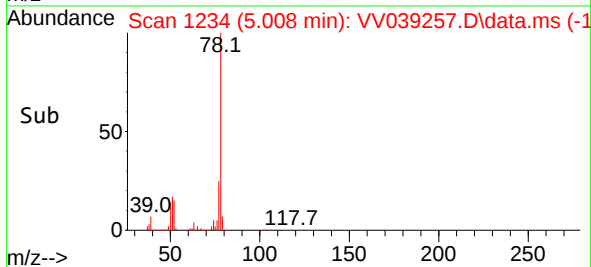
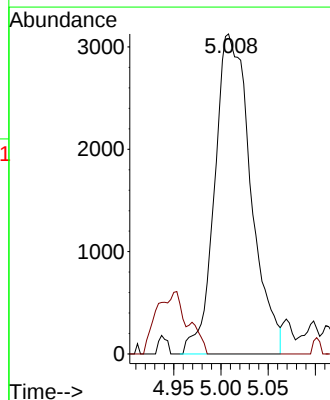
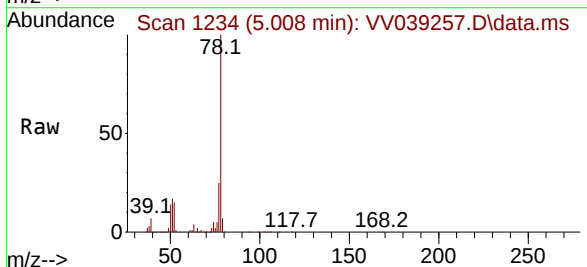
Instrument :
MSVOA_V
ClientSampleId :
MW14

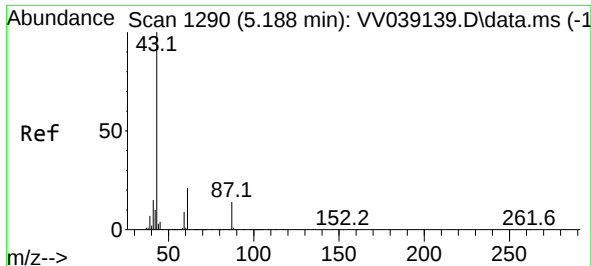
Tgt Ion: 41	Resp: 284
Ion Ratio	Lower Upper
41 100	
39 18.0	42.2 63.2#
67 13.7	67.9 101.9#
52 0.0	26.7 40.1#



#42
1,2-Dichloroethane
Concen: 0.807 ug/l
RT: 5.008 min Scan# 1234
Delta R.T. -0.029 min
Lab File: VV039257.D
Acq: 03 Oct 2025 18:04

Tgt Ion: 62	Resp: 8312
Ion Ratio	Lower Upper
62 100	
98 0.0	0.0 19.2

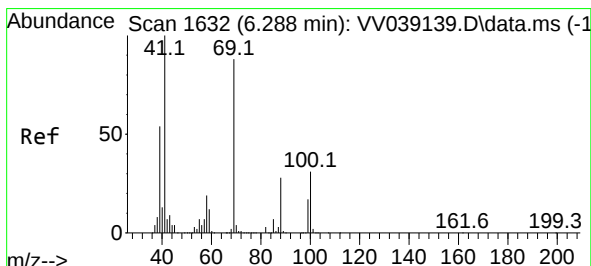
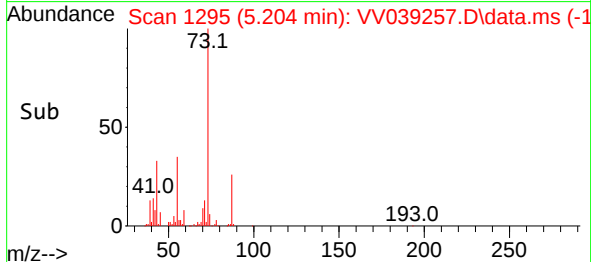
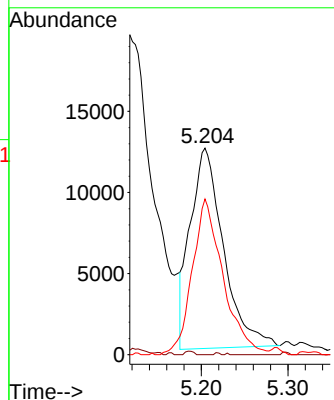
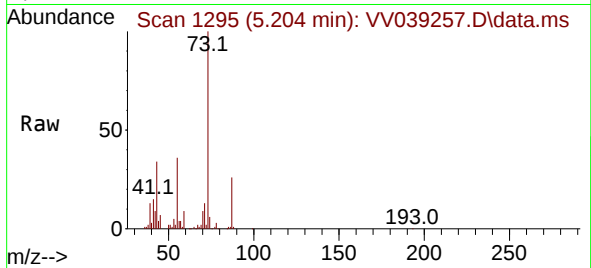




#43
Isopropyl Acetate
Concen: 2.200 ug/l
RT: 5.204 min Scan# 11
Delta R.T. 0.016 min
Lab File: VV039257.D
Acq: 03 Oct 2025 18:04

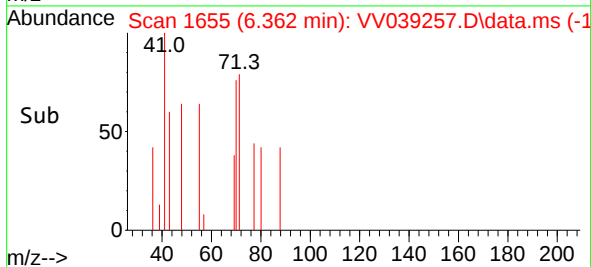
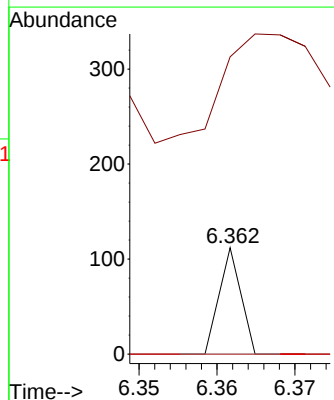
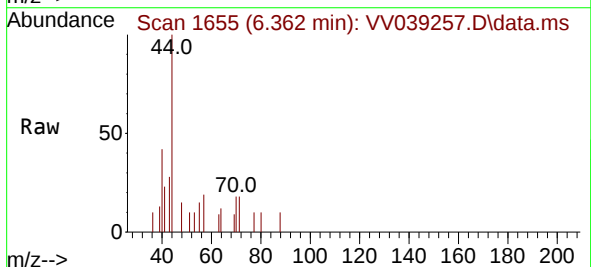
Instrument :
MSVOA_V
ClientSampleId :
MW14

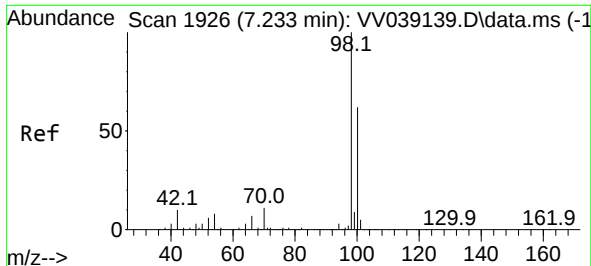
Tgt Ion: 43 Resp: 32850
Ion Ratio Lower Upper
43 100
61 0.0 15.9 23.9#
87 72.3 11.0 16.6#



#49
1,4-Dioxane
Concen: 0.201 ug/l
RT: 6.362 min Scan# 1655
Delta R.T. 0.074 min
Lab File: VV039257.D
Acq: 03 Oct 2025 18:04

Tgt Ion: 88 Resp: 22
Ion Ratio Lower Upper
88 100
43 1681.8 25.1 37.7#
58 0.0 53.6 80.4#

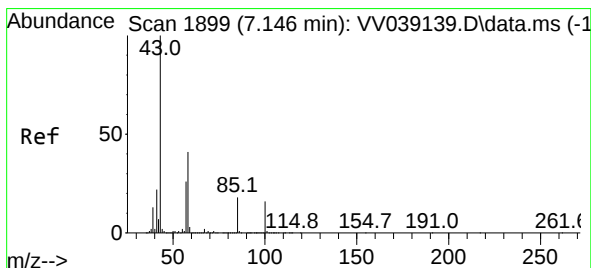
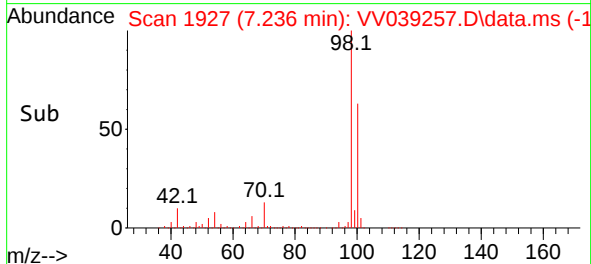
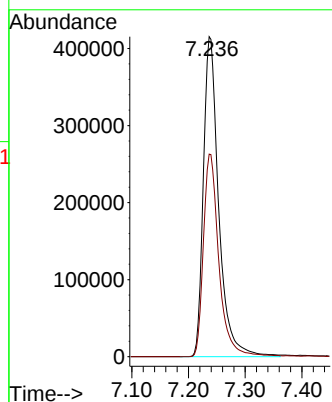
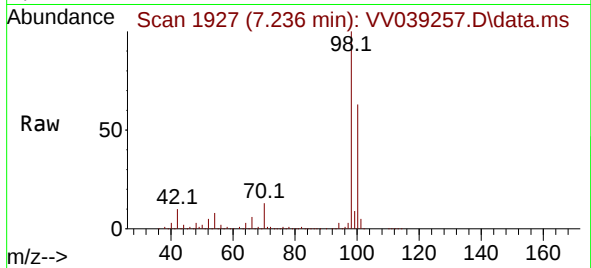




#50
Toluene-d8
Concen: 44.554 ug/l
RT: 7.236 min Scan# 1926
Delta R.T. 0.003 min
Lab File: VV039257.D
Acq: 03 Oct 2025 18:04

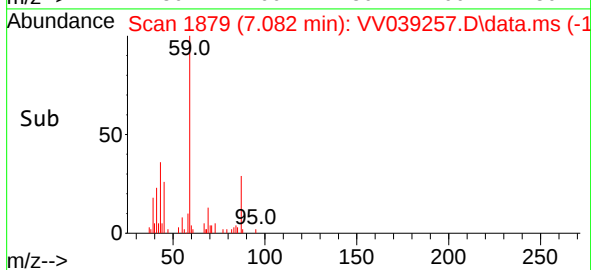
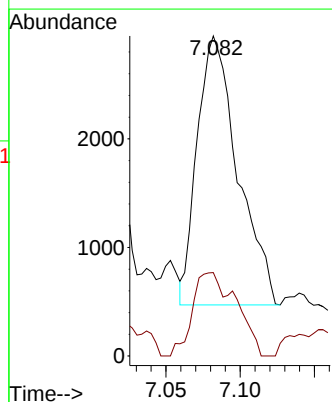
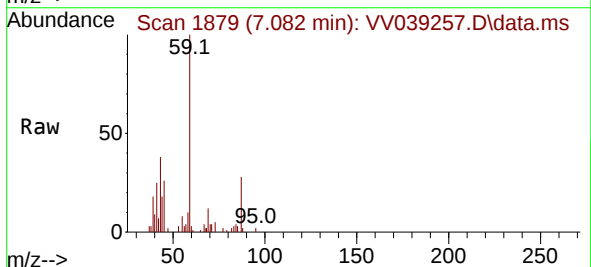
Instrument :
MSVOA_V
ClientSampleId :
MW14

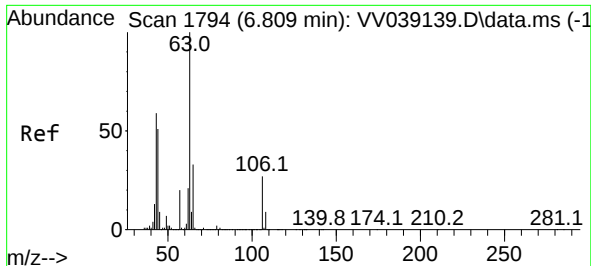
Tgt Ion: 98 Resp: 781078
Ion Ratio Lower Upper
98 100
100 64.0 52.2 78.2



#51
4-Methyl-2-Pentanone
Concen: 0.480 ug/l
RT: 7.082 min Scan# 1879
Delta R.T. -0.064 min
Lab File: VV039257.D
Acq: 03 Oct 2025 18:04

Tgt Ion: 43 Resp: 4712
Ion Ratio Lower Upper
43 100
58 33.4 32.3 48.5

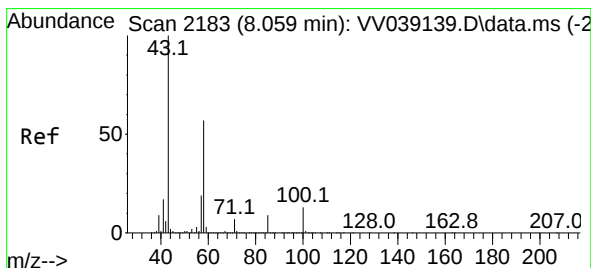
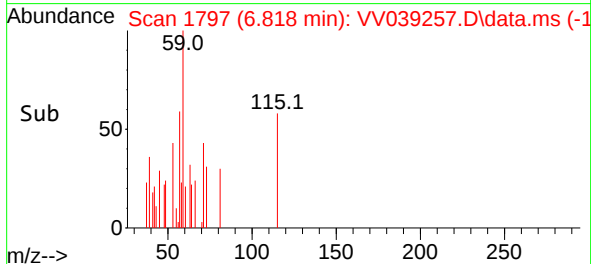
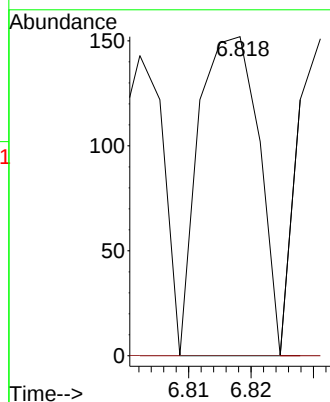
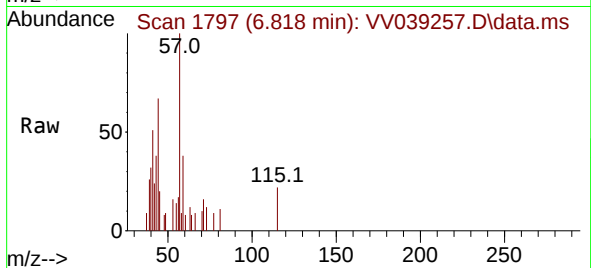




#58
2-Chloroethyl Vinyl ether
Concen: 9.642 ug/l
RT: 6.818 min Scan# 11
Delta R.T. 0.009 min
Lab File: VV039257.D
Acq: 03 Oct 2025 18:04

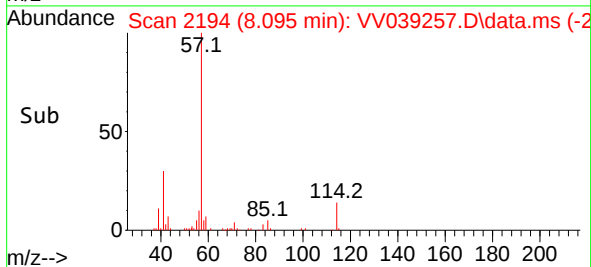
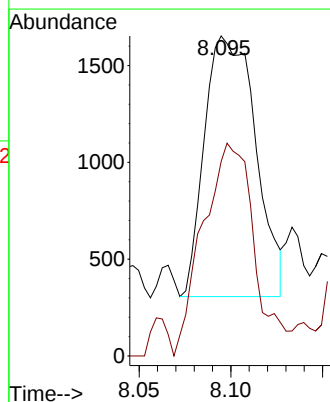
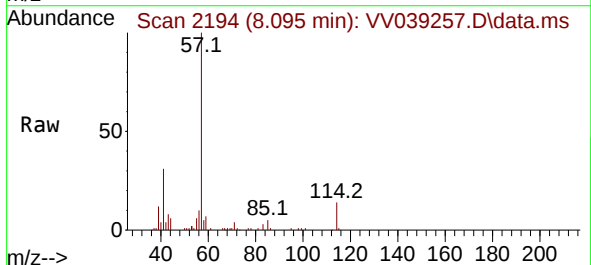
Instrument :
MSVOA_V
ClientSampleId :
MW14

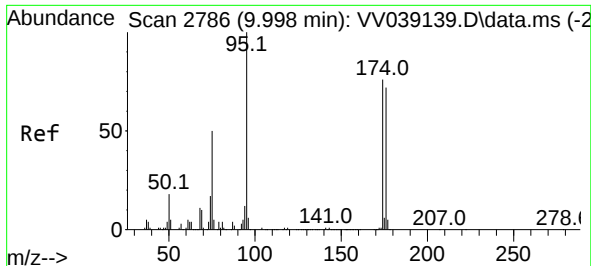
Tgt Ion: 63 Resp: 101
Ion Ratio Lower Upper
63 100
106 0.0 22.1 33.1#



#59
2-Hexanone
Concen: 2.652 ug/l
RT: 8.095 min Scan# 2194
Delta R.T. 0.036 min
Lab File: VV039257.D
Acq: 03 Oct 2025 18:04

Tgt Ion: 43 Resp: 2609
Ion Ratio Lower Upper
43 100
58 81.4 28.3 85.0

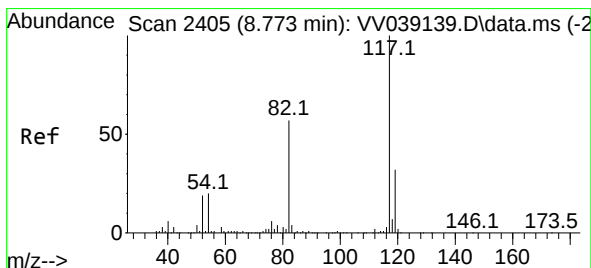
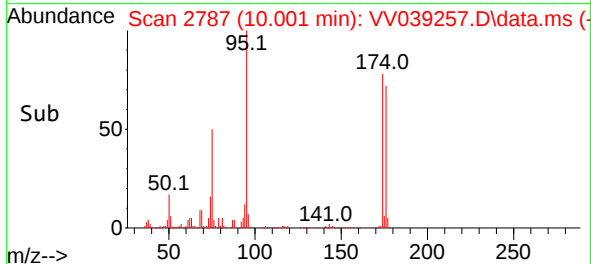
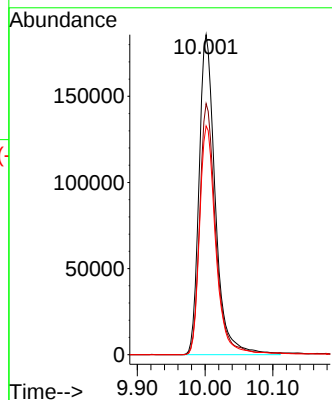
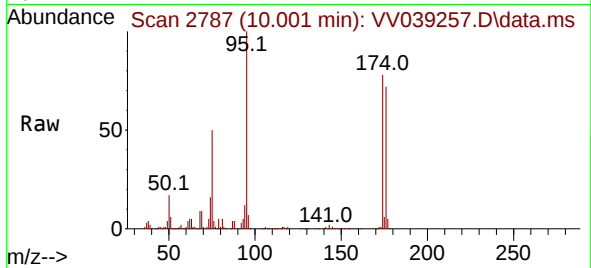




#62
4-Bromofluorobenzene
Concen: 42.744 ug/l
RT: 10.001 min Scan# 21
Delta R.T. 0.003 min
Lab File: VV039257.D
Acq: 03 Oct 2025 18:04

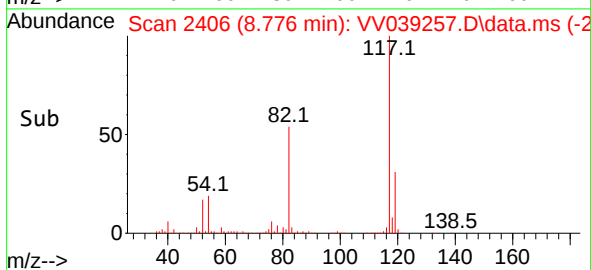
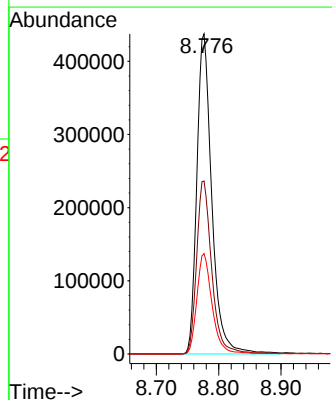
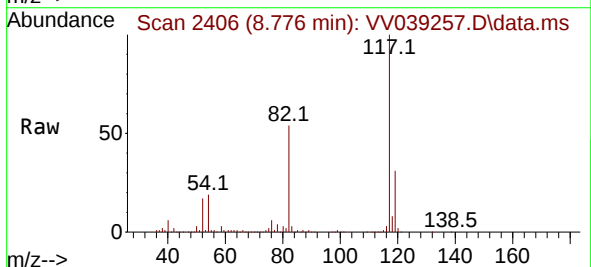
Instrument :
MSVOA_V
ClientSampleId :
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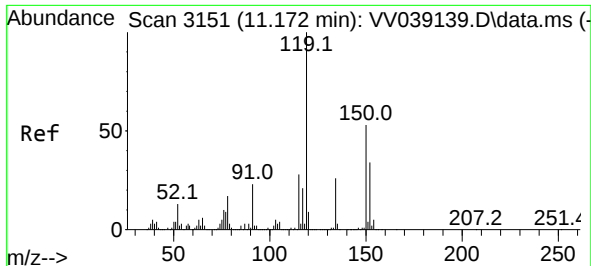
Tgt Ion: 95 Resp: 308485
Ion Ratio Lower Upper
95 100
174 77.9 0.0 150.4
176 71.2 0.0 144.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 8.776 min Scan# 2406
Delta R.T. 0.003 min
Lab File: VV039257.D
Acq: 03 Oct 2025 18:04

Tgt Ion: 117 Resp: 731184
Ion Ratio Lower Upper
117 100
82 54.1 45.4 68.2
119 31.4 25.6 38.4

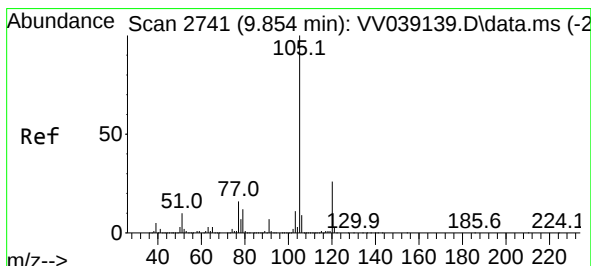
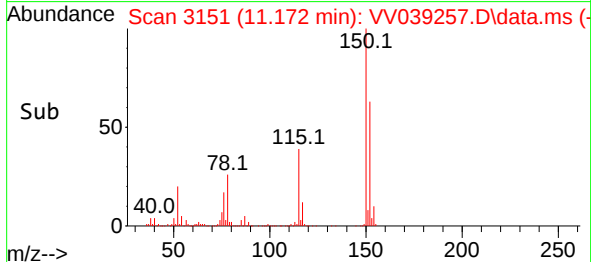
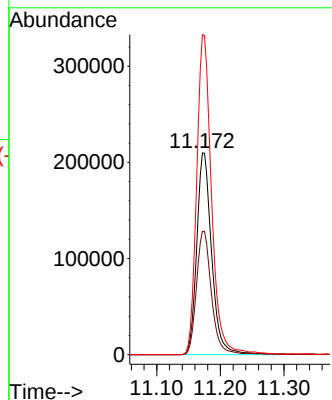
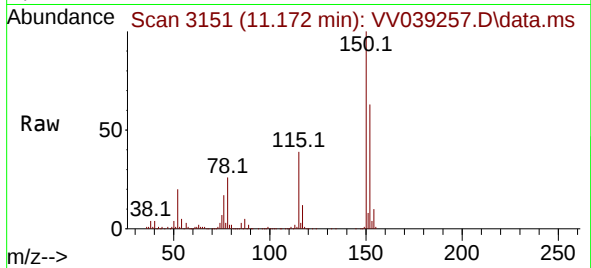




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 11.172 min Scan# 3151
 Delta R.T. -0.000 min
 Lab File: VV039257.D
 Acq: 03 Oct 2025 18:04

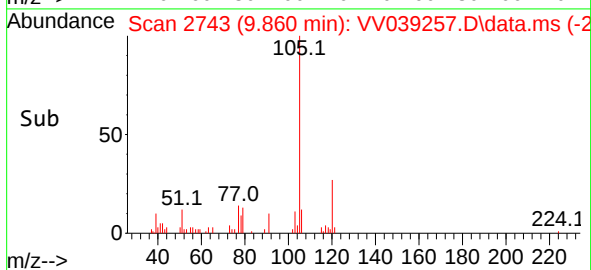
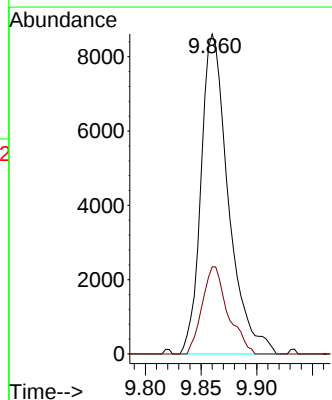
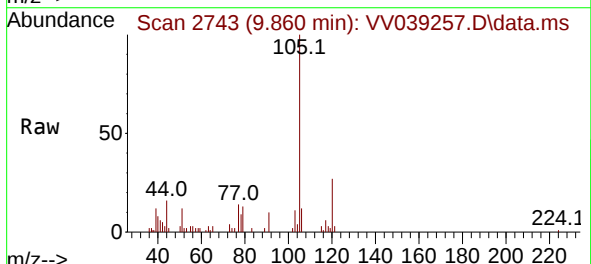
Instrument :
 MSVOA_V
 ClientSampleId :
 MW14

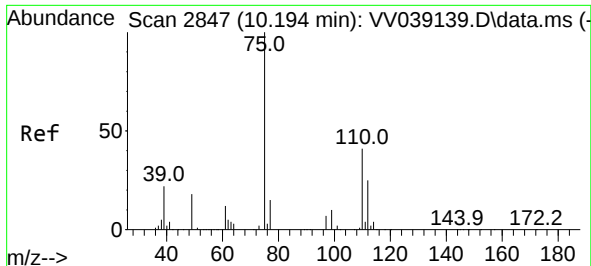
Tgt Ion:152 Resp: 341647
 Ion Ratio Lower Upper
 152 100
 115 61.1 44.8 134.4
 150 158.6 0.0 353.8



#73
 Isopropylbenzene
 Concen: 0.595 ug/l
 RT: 9.860 min Scan# 2743
 Delta R.T. 0.006 min
 Lab File: VV039257.D
 Acq: 03 Oct 2025 18:04

Tgt Ion:105 Resp: 14732
 Ion Ratio Lower Upper
 105 100
 120 25.6 13.1 39.1

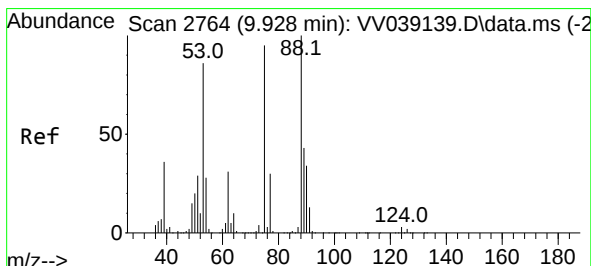
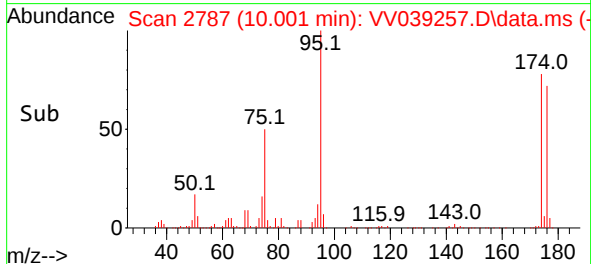
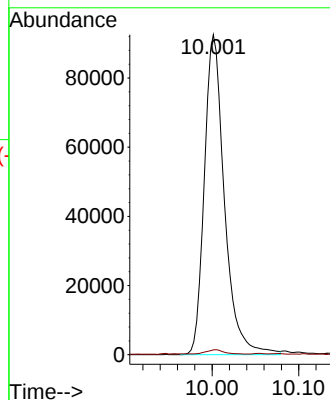
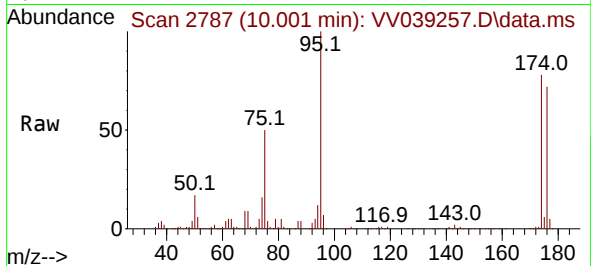




#76
1,2,3-Trichloropropane
Concen: 19.180 ug/l
RT: 10.001 min Scan# 2787
Delta R.T. -0.193 min
Lab File: VV039257.D
Acq: 03 Oct 2025 18:04

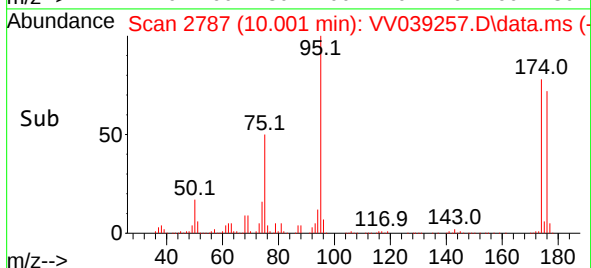
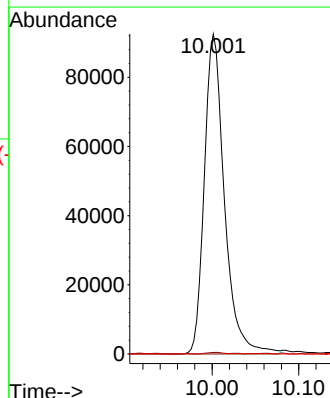
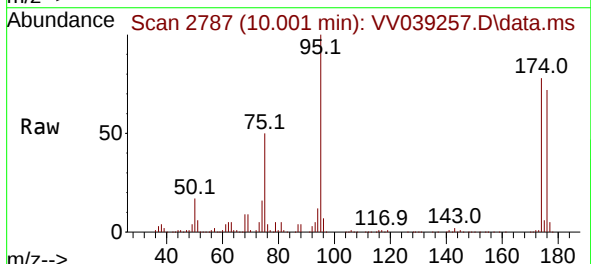
Instrument : MSVOA_V
ClientSampleId : MW14

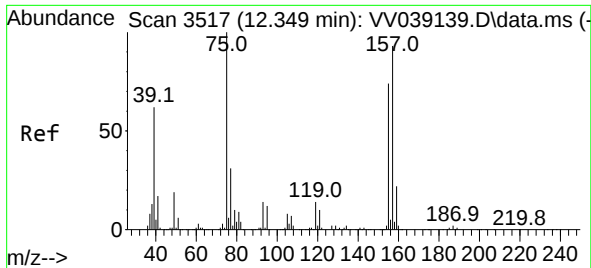
Tgt Ion: 75 Resp: 149194
Ion Ratio Lower Upper
75 100
77 1.1 11.3 33.8#



#81
trans-1,4-Dichloro-2-butene
Concen: 46.044 ug/l
RT: 10.001 min Scan# 2787
Delta R.T. 0.074 min
Lab File: VV039257.D
Acq: 03 Oct 2025 18:04

Tgt Ion: 75 Resp: 149194
Ion Ratio Lower Upper
75 100
53 0.4 72.5 108.7#
89 0.0 37.2 55.8#





#92
 1,2-Dibromo-3-Chloropropane
 Concen: Below Cal
 RT: 12.374 min Scan# 31
 Delta R.T. 0.025 min
 Lab File: VV039257.D
 Acq: 03 Oct 2025 18:04

Instrument :
 MSVOA_V
 ClientSampleId :
 MW14

Tgt Ion: 75 Resp: 110
 Ion Ratio Lower Upper
 75 100
 155 0.0 38.6 115.8#
 157 0.0 49.5 148.3#

