

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061725\
 Data File : VN087060.D
 Acq On : 17 Jun 2025 15:26
 Operator : JC\MD
 Sample : Q2319-04
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MH-B

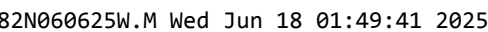
Quant Time: Jun 18 01:49:32 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 07 02:12:50 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	8.230	168	213420	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	420742	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	382712	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	183788	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.588	65	146641	51.319	ug/l	0.00
Spiked Amount	50.000	Range 74 - 125	Recovery	= 102.640%		
35) Dibromofluoromethane	8.177	113	126756	50.836	ug/l	0.00
Spiked Amount	50.000	Range 75 - 124	Recovery	= 101.680%		
50) Toluene-d8	10.565	98	518462	52.525	ug/l	0.00
Spiked Amount	50.000	Range 86 - 113	Recovery	= 105.040%		
62) 4-Bromofluorobenzene	12.847	95	183759	50.108	ug/l	0.00
Spiked Amount	50.000	Range 77 - 121	Recovery	= 100.220%		
Target Compounds						
						Qvalue
8) Diethyl Ether	3.983	74	1371	0.850	ug/l	92
11) Tert butyl alcohol	5.536	59	311	0.401	ug/l #	73
16) Acetone	4.459	43	37760	24.919	ug/l	93
18) Methyl Acetate	5.048	43	25058	5.674	ug/l	98
20) Methylene Chloride	5.300	84	17542	6.183	ug/l	91
25) 2-Butanone	7.506	43	4455	1.809	ug/l #	83
30) Chloroform	7.977	83	6454	1.352	ug/l	97
31) Cyclohexane	8.230	56	3470	0.749	ug/l #	1
36) 1,1-Dichloropropene	8.230	75	15833	4.261	ug/l #	48
37) Ethyl Acetate	7.571	43	17959	3.797	ug/l	99
38) Carbon Tetrachloride	8.230	117	20858	5.718	ug/l #	17
43) Isopropyl Acetate	8.700	43	11228	1.479	ug/l #	93
45) 1,2-Dichloropropane	9.747	63	1291	0.437	ug/l #	43
47) Bromodichloromethane	9.894	83	1318	0.326	ug/l #	90
48) Methyl methacrylate	9.747	41	84069	24.061	ug/l #	35
49) 1,4-Dioxane	9.753	88	61	0.960	ug/l #	1
51) 4-Methyl-2-Pentanone	10.359	43	95950	20.996	ug/l #	44
54) cis-1,3-Dichloropropene	10.359	75	60059	12.427	ug/l #	54
57) 1,3-Dichloropropane	11.212	76	4257	0.859	ug/l #	43
59) 2-Hexanone	11.212	43	53047	18.020	ug/l #	45
71) Bromoform	12.853	173	1043	0.519	ug/l #	1
76) 1,2,3-Trichloropropane	12.847	75	85364	19.540	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	85364	44.980	ug/l #	16
95) Naphthalene	15.635	128	3849	0.279	ug/l #	86

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

Quant Time: Jun 18 01:49:32 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration

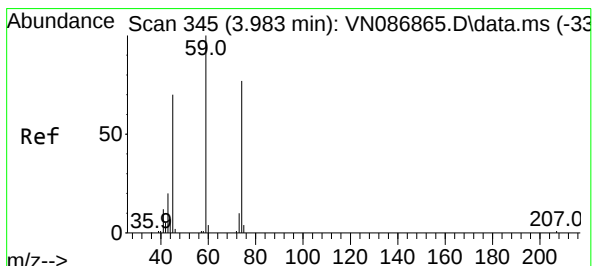
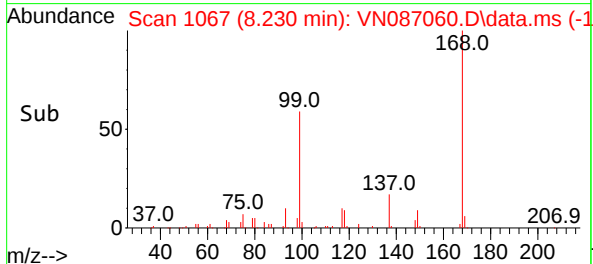
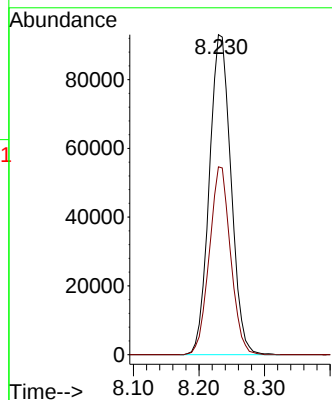
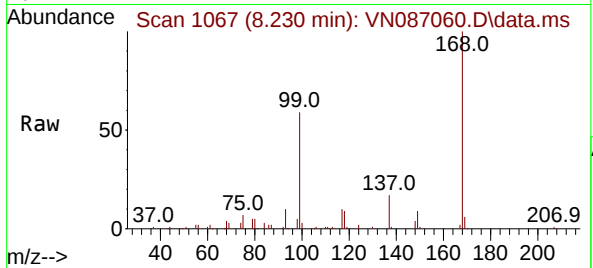




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.230 min Scan# 1067
Delta R.T. -0.006 min
Lab File: VN087060.D
Acq: 17 Jun 2025 15:26

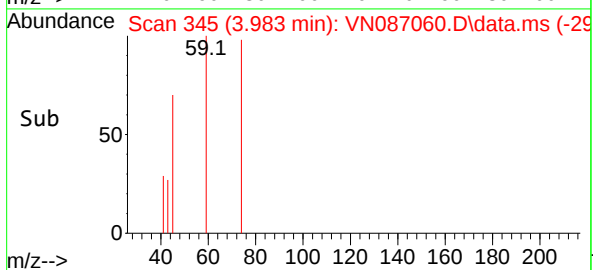
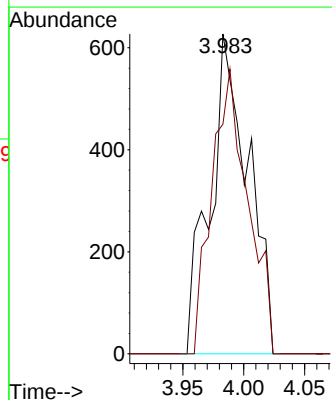
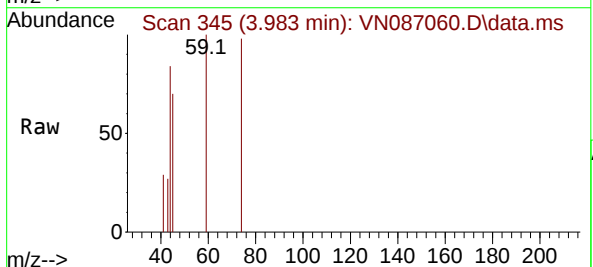
Instrument :
MSVOA_N
ClientSampleId :
MH-B

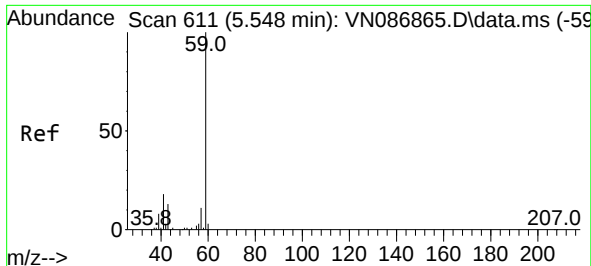
Tgt Ion:168 Resp: 213420
Ion Ratio Lower Upper
168 100
99 58.7 49.1 73.7



#8
Diethyl Ether
Concen: 0.850 ug/l
RT: 3.983 min Scan# 345
Delta R.T. -0.000 min
Lab File: VN087060.D
Acq: 17 Jun 2025 15:26

Tgt Ion: 74 Resp: 1371
Ion Ratio Lower Upper
74 100
45 83.9 45.5 136.5

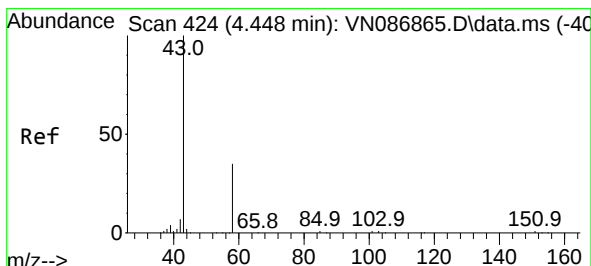
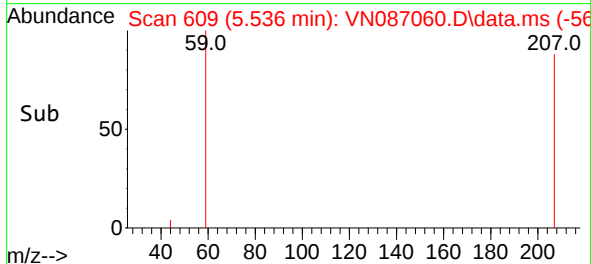
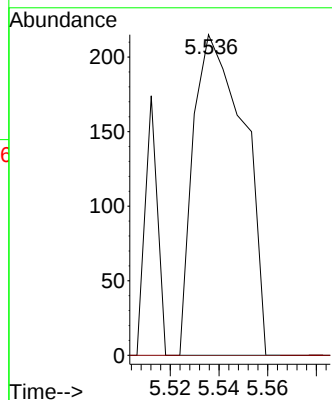
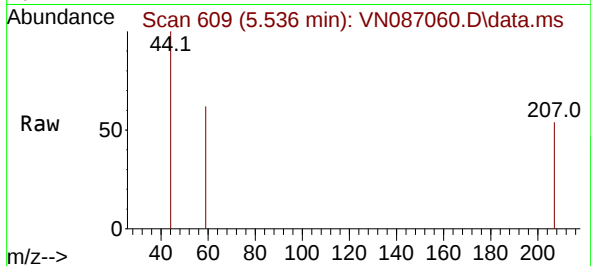




#11
Tert butyl alcohol
Concen: 0.401 ug/l
RT: 5.536 min Scan# 609
Delta R.T. -0.012 min
Lab File: VN087060.D
Acq: 17 Jun 2025 15:26

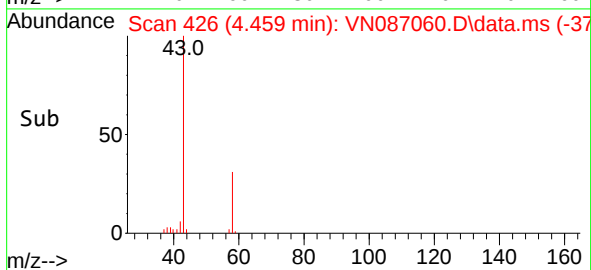
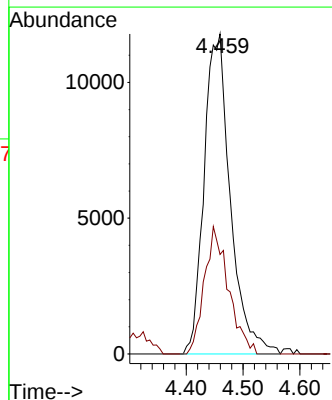
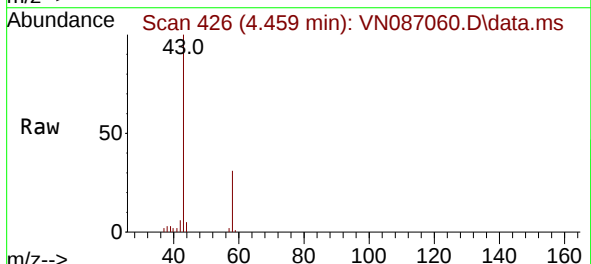
Instrument :
MSVOA_N
ClientSampleId :
MH-B

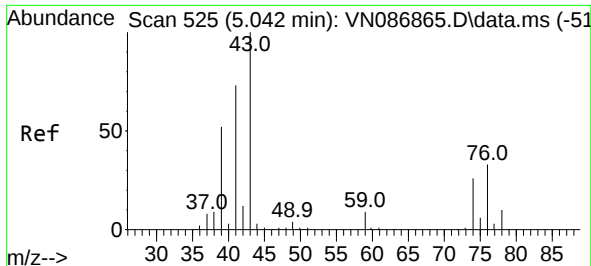
Tgt Ion: 59 Resp: 311
Ion Ratio Lower Upper
59 100
57 0.0 8.1 12.1#



#16
Acetone
Concen: 24.919 ug/l
RT: 4.459 min Scan# 426
Delta R.T. 0.012 min
Lab File: VN087060.D
Acq: 17 Jun 2025 15:26

Tgt Ion: 43 Resp: 37760
Ion Ratio Lower Upper
43 100
58 31.1 28.0 42.0

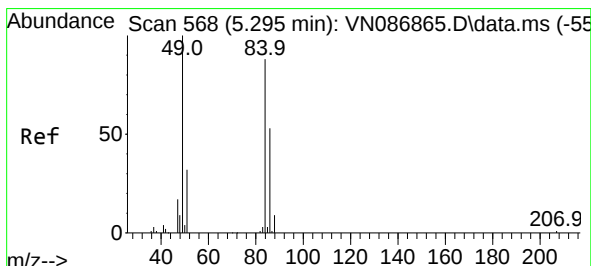
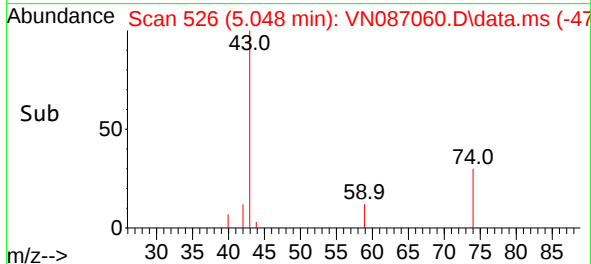
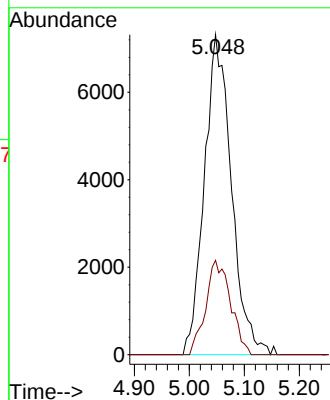
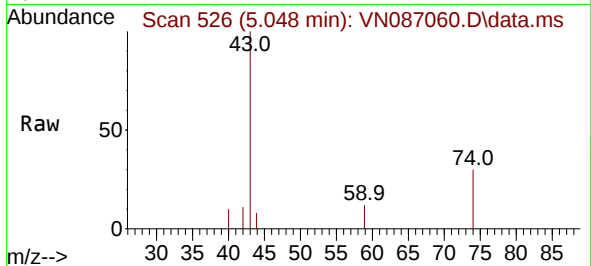




#18
Methyl Acetate
Concen: 5.674 ug/l
RT: 5.048 min Scan# 51
Delta R.T. 0.006 min
Lab File: VN087060.D
Acq: 17 Jun 2025 15:26

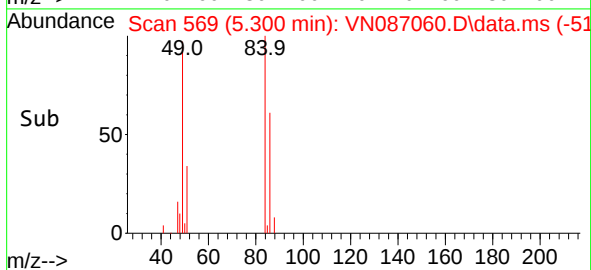
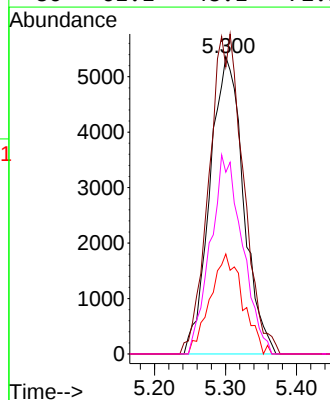
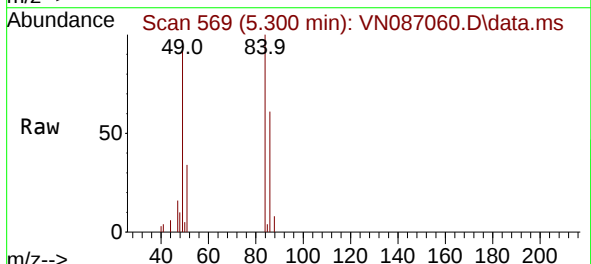
Instrument :
MSVOA_N
ClientSampleId :
MH-B

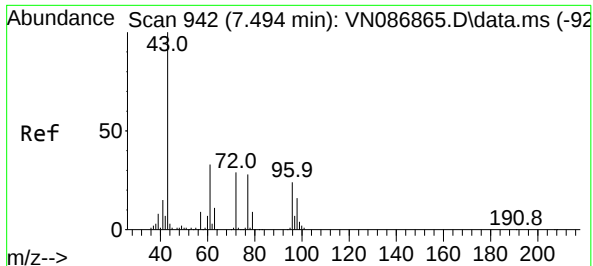
Tgt Ion: 43 Resp: 25058
Ion Ratio Lower Upper
43 100
74 27.0 20.7 31.1



#20
Methylene Chloride
Concen: 6.183 ug/l
RT: 5.300 min Scan# 569
Delta R.T. 0.006 min
Lab File: VN087060.D
Acq: 17 Jun 2025 15:26

Tgt Ion: 84 Resp: 17542
Ion Ratio Lower Upper
84 100
49 96.5 90.5 135.7
51 33.6 28.5 42.7
86 61.1 48.1 72.1

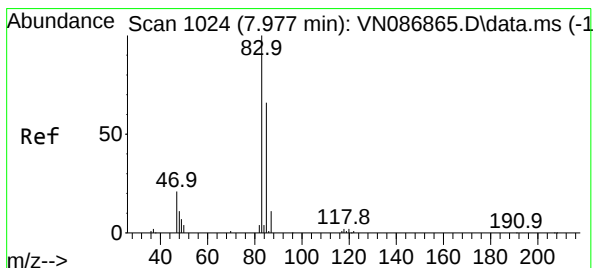
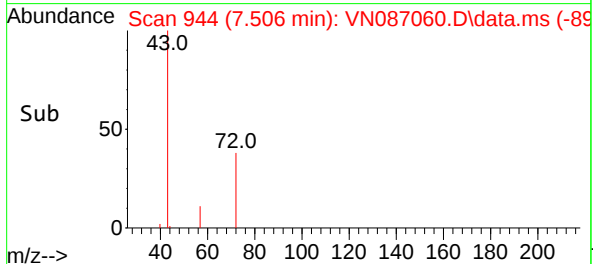
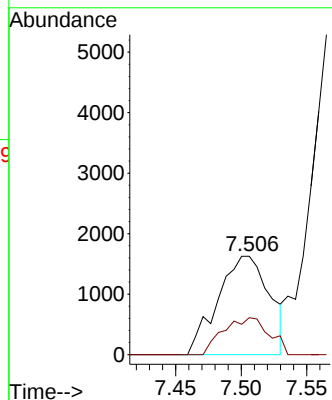
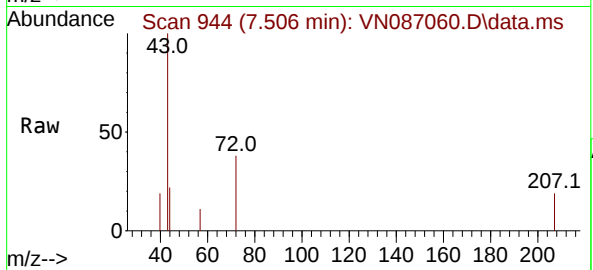




#25
2-Butanone
Concen: 1.809 ug/l
RT: 7.506 min Scan# 942
Delta R.T. 0.012 min
Lab File: VN087060.D
Acq: 17 Jun 2025 15:26

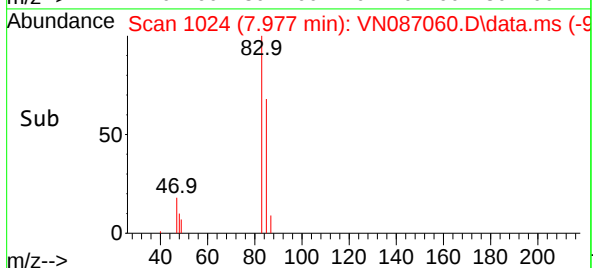
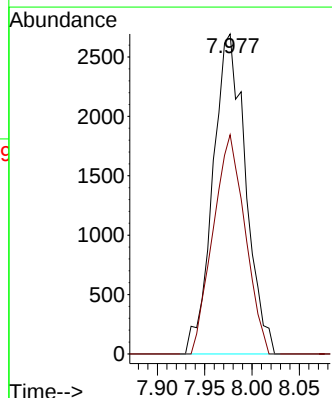
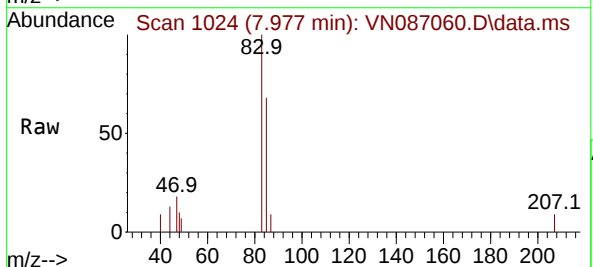
Instrument :
MSVOA_N
ClientSampleId :
MH-B

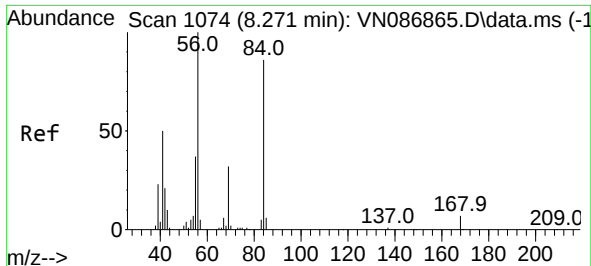
Tgt Ion: 43 Resp: 4455
Ion Ratio Lower Upper
43 100
72 37.6 23.0 34.6#



#30
Chloroform
Concen: 1.352 ug/l
RT: 7.977 min Scan# 1024
Delta R.T. -0.000 min
Lab File: VN087060.D
Acq: 17 Jun 2025 15:26

Tgt Ion: 83 Resp: 6454
Ion Ratio Lower Upper
83 100
85 68.5 52.9 79.3

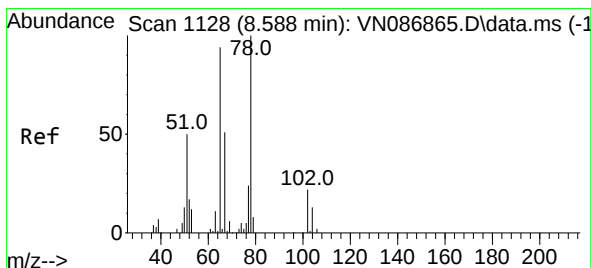
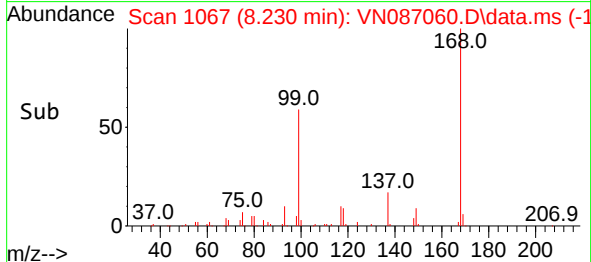
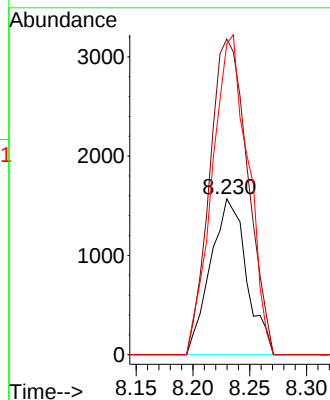
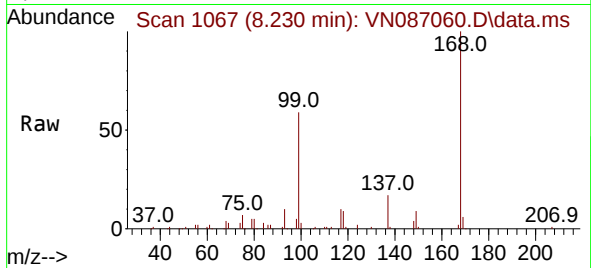




#31
Cyclohexane
Concen: 0.749 ug/l
RT: 8.230 min Scan# 1067
Delta R.T. -0.041 min
Lab File: VN087060.D
Acq: 17 Jun 2025 15:26

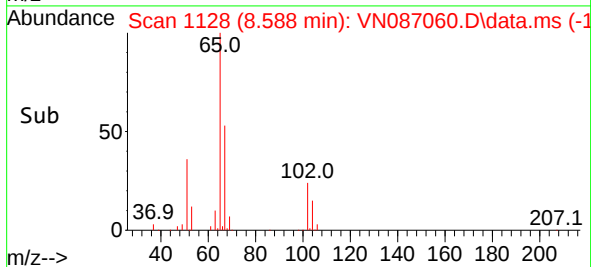
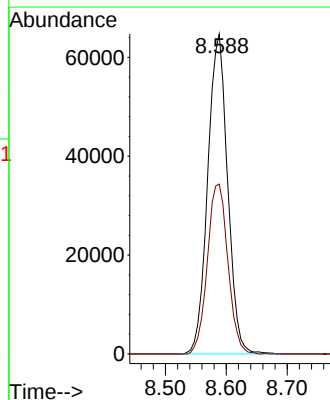
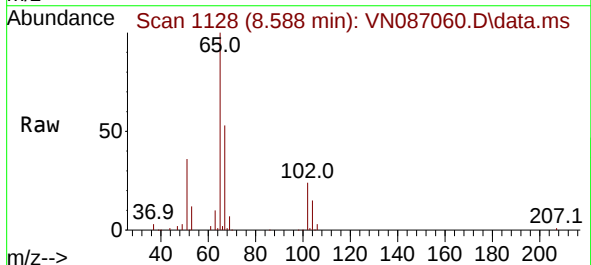
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MSVOA_N
ClientSampleId :
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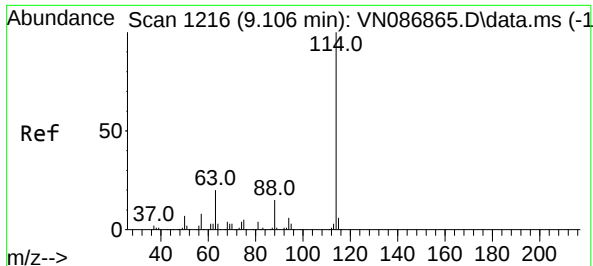
Tgt Ion: 56 Resp: 3470
Ion Ratio Lower Upper
56 100
69 202.6 25.4 38.0#
84 199.4 68.8 103.2#



#33
1,2-Dichloroethane-d4
Concen: 51.319 ug/l
RT: 8.588 min Scan# 1128
Delta R.T. -0.000 min
Lab File: VN087060.D
Acq: 17 Jun 2025 15:26

Tgt Ion: 65 Resp: 146641
Ion Ratio Lower Upper
65 100
67 54.9 0.0 105.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 11

Delta R.T. -0.000 min

Lab File: VN087060.D

Acq: 17 Jun 2025 15:26

Instrument :

MSVOA_N

ClientSampleId :

MH-B

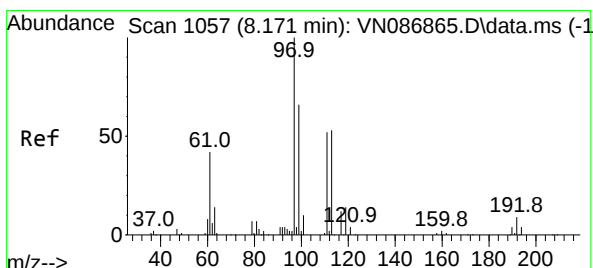
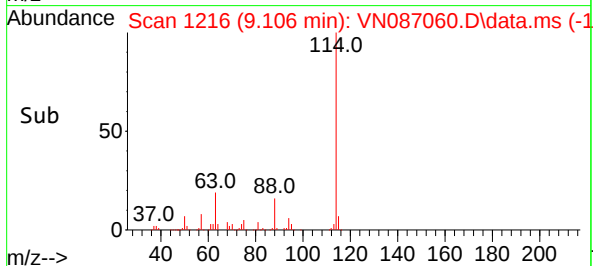
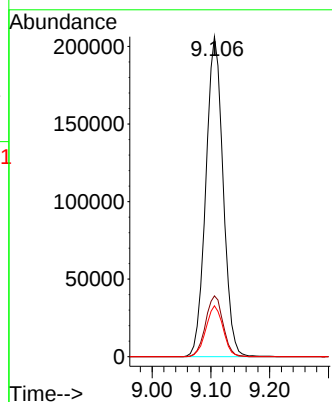
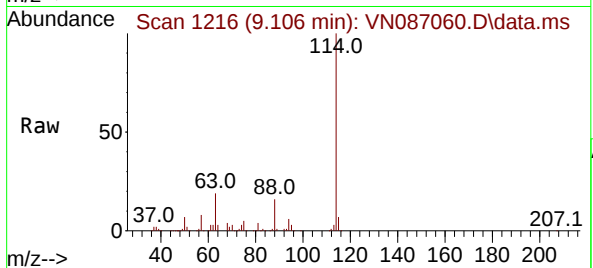
Tgt Ion:114 Resp: 420742

Ion Ratio Lower Upper

114 100

63 19.0 0.0 39.6

88 15.9 0.0 30.2



#35

Dibromofluoromethane

Concen: 50.836 ug/l

RT: 8.177 min Scan# 1058

Delta R.T. 0.006 min

Lab File: VN087060.D

Acq: 17 Jun 2025 15:26

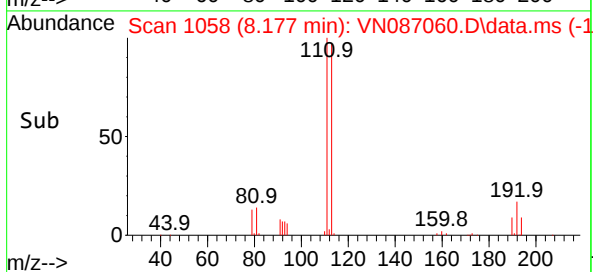
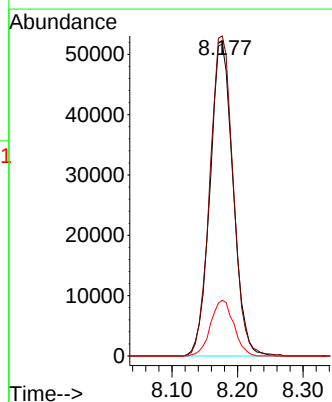
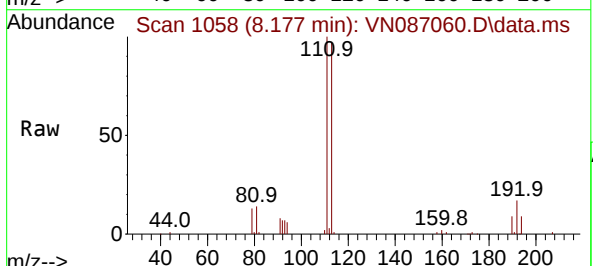
Tgt Ion:113 Resp: 126756

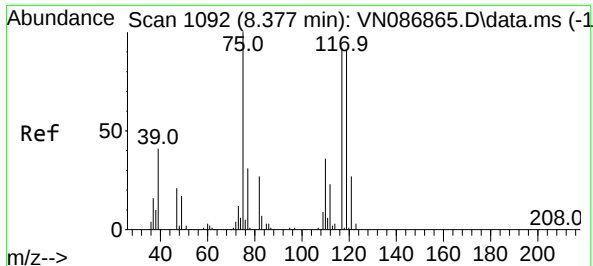
Ion Ratio Lower Upper

113 100

111 103.0 84.2 126.2

192 17.8 14.2 21.4





#36

1,1-Dichloropropene

Concen: 4.261 ug/l

RT: 8.230 min Scan# 1067

Delta R.T. -0.147 min

Lab File: VN087060.D

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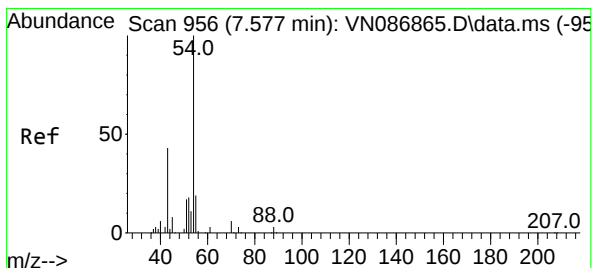
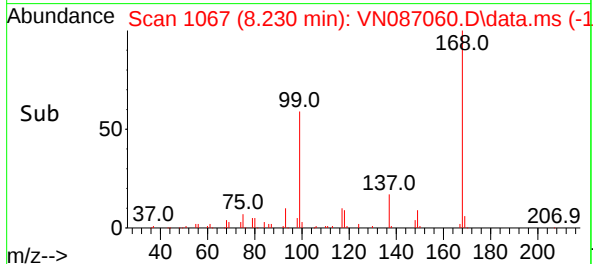
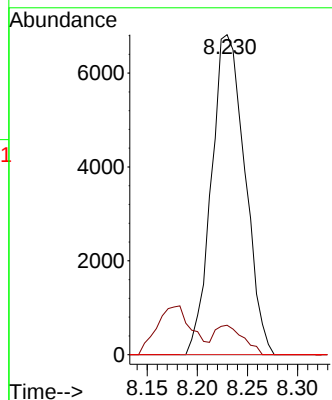
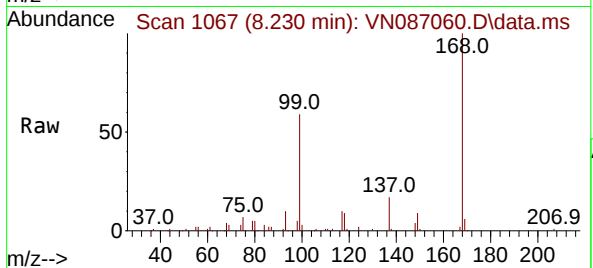
Tgt Ion: 75 Resp: 15833

Ion Ratio Lower Upper

75 100

110 7.7 17.6 52.9#

77 0.0 25.3 37.9#



#37

Ethyl Acetate

Concen: 3.797 ug/l

RT: 7.571 min Scan# 955

Delta R.T. -0.006 min

Lab File: VN087060.D

Acq: 17 Jun 2025 15:26

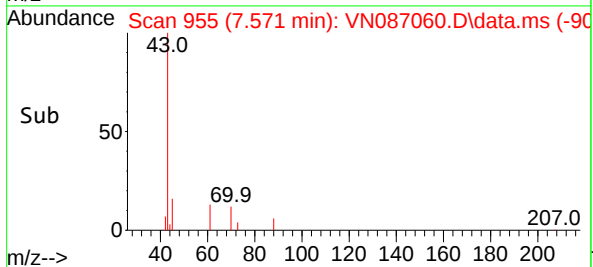
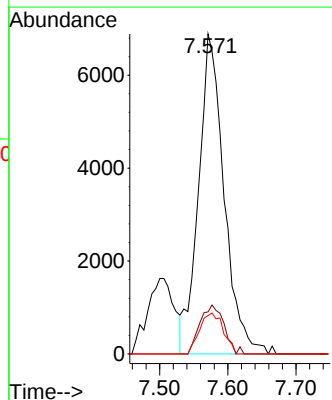
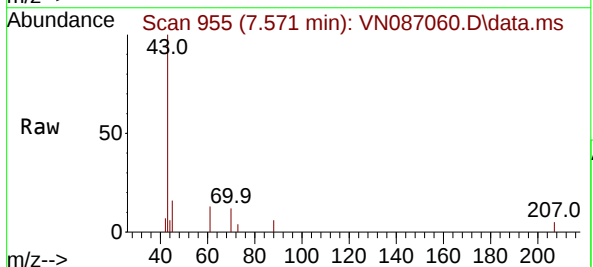
Tgt Ion: 43 Resp: 17959

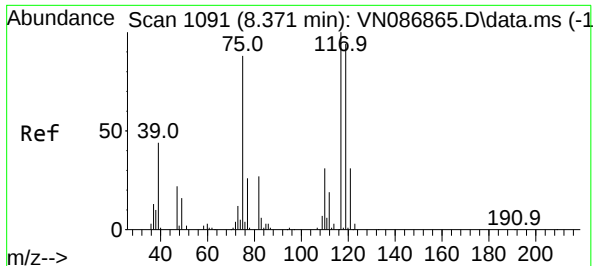
Ion Ratio Lower Upper

43 100

61 14.4 12.1 18.1

70 11.8 9.8 14.6

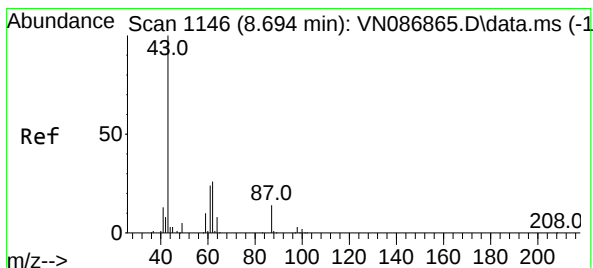
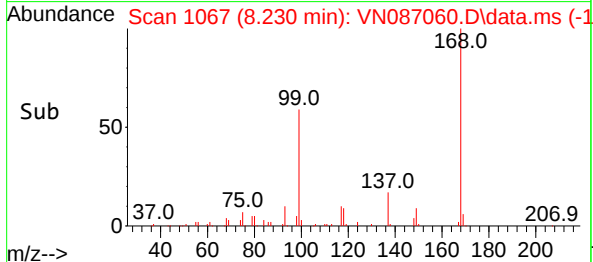
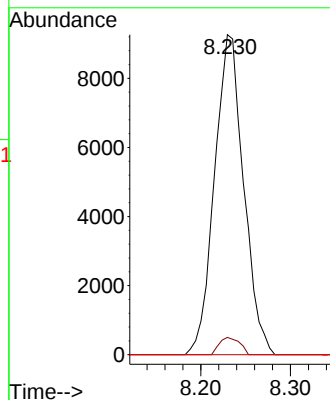
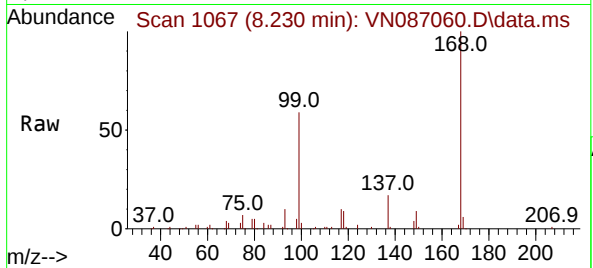




#38
Carbon Tetrachloride
Concen: 5.718 ug/l
RT: 8.230 min Scan# 1107
Delta R.T. -0.141 min
Lab File: VN087060.D
Acq: 17 Jun 2025 15:26

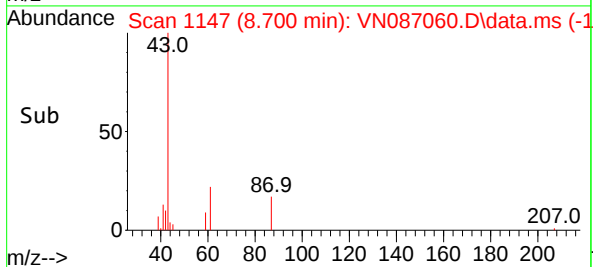
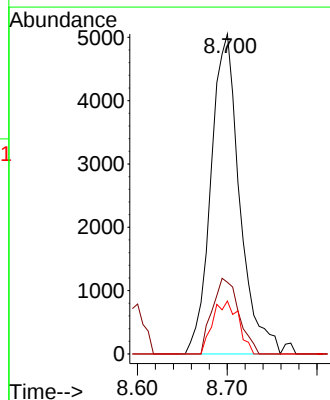
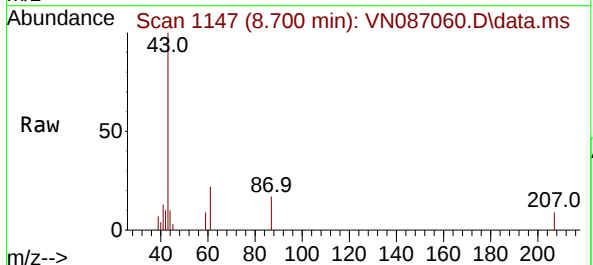
Instrument :
MSVOA_N
ClientSampleId :
MH-B

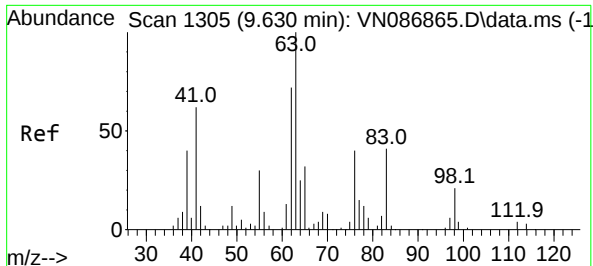
Tgt Ion:117 Resp: 20858
Ion Ratio Lower Upper
117 100
119 5.4 75.0 112.6#
121 0.0 24.9 37.3#



#43
Isopropyl Acetate
Concen: 1.479 ug/l
RT: 8.700 min Scan# 1147
Delta R.T. 0.006 min
Lab File: VN087060.D
Acq: 17 Jun 2025 15:26

Tgt Ion: 43 Resp: 11228
Ion Ratio Lower Upper
43 100
61 21.8 22.1 33.1#
87 14.8 11.8 17.6





#45

1,2-Dichloropropane

Concen: 0.437 ug/l

RT: 9.747 min Scan# 1

Delta R.T. 0.118 min

Lab File: VN087060.D

Acq: 17 Jun 2025 15:26

Instrument :

MSVOA_N

ClientSampleId :

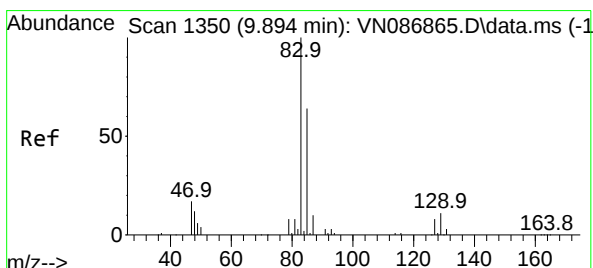
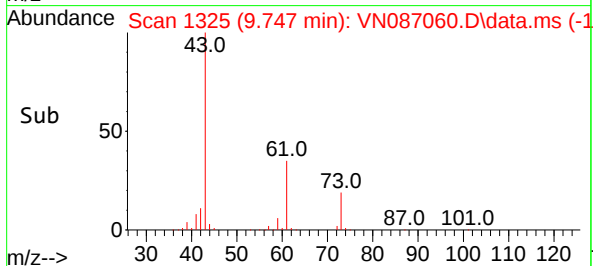
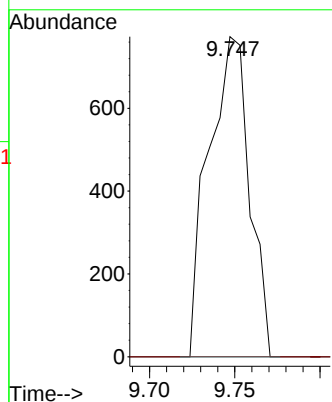
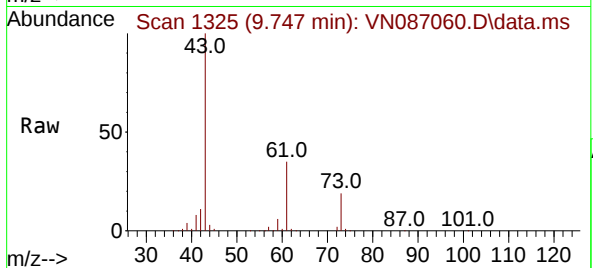
MH-B

Tgt Ion: 63 Resp: 1291

Ion Ratio Lower Upper

63 100

65 0.0 25.5 38.3#



#47

Bromodichloromethane

Concen: 0.326 ug/l

RT: 9.894 min Scan# 1350

Delta R.T. -0.000 min

Lab File: VN087060.D

Acq: 17 Jun 2025 15:26

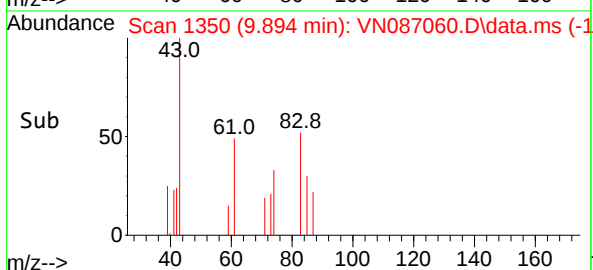
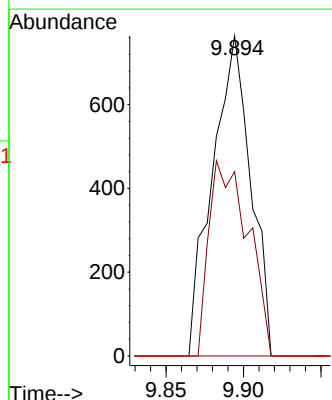
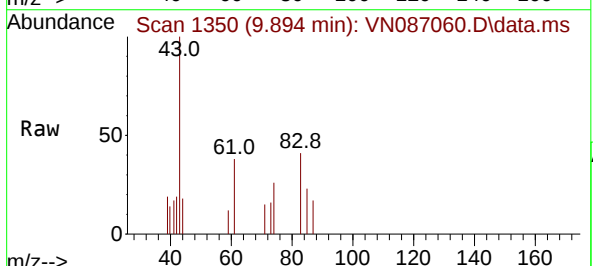
Tgt Ion: 83 Resp: 1318

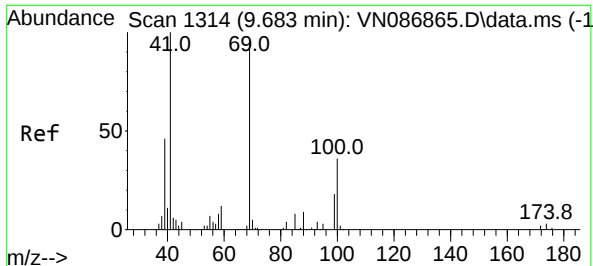
Ion Ratio Lower Upper

83 100

85 57.6 50.9 76.3

127 0.0 6.6 10.0#

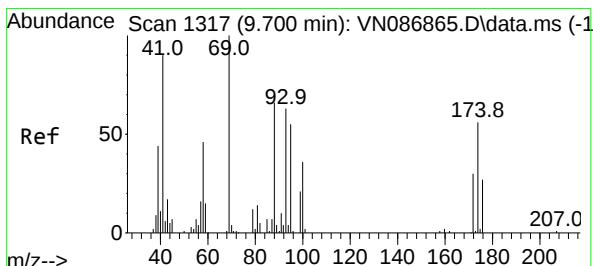
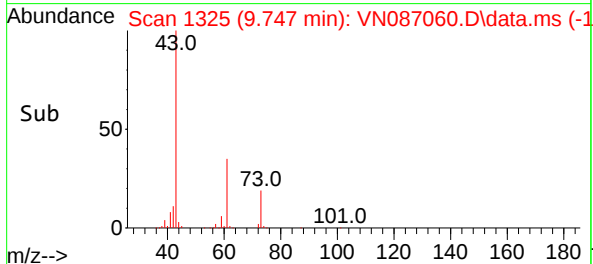
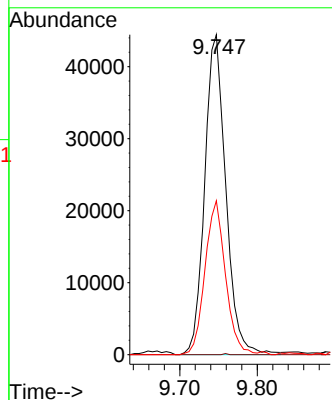
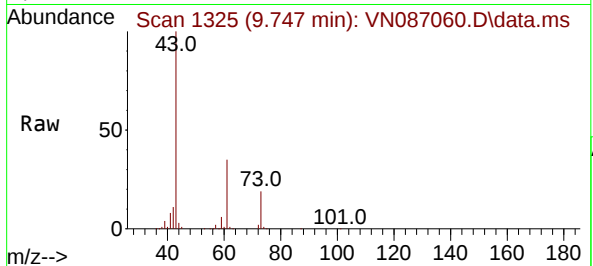




#48
Methyl methacrylate
Concen: 24.061 ug/l
RT: 9.747 min Scan# 1325
Delta R.T. 0.065 min
Lab File: VN087060.D
Acq: 17 Jun 2025 15:26

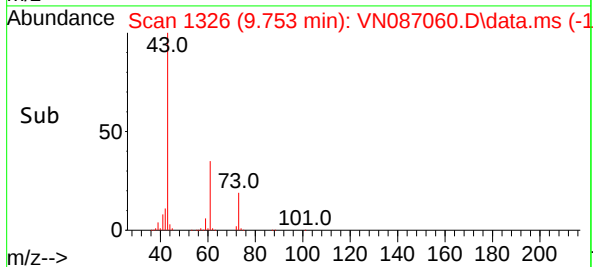
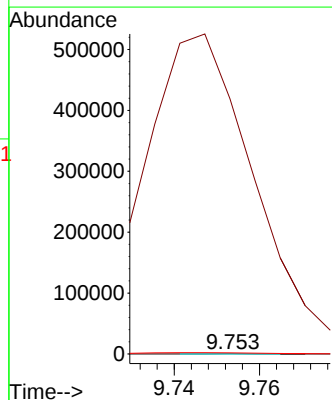
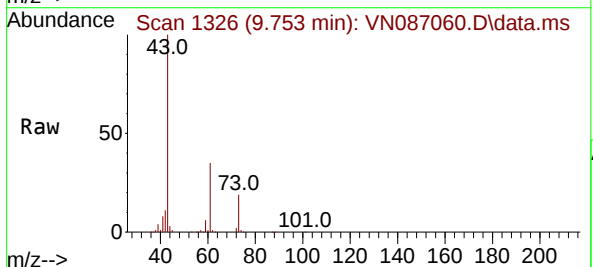
Instrument :
MSVOA_N
ClientSampleId :
MH-B

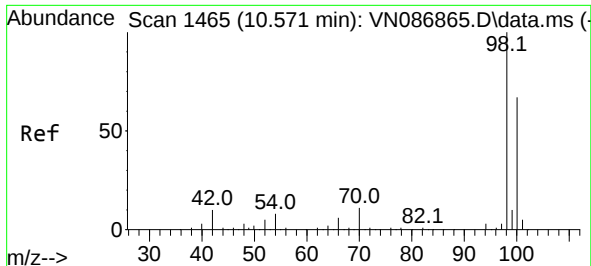
Tgt Ion: 41 Resp: 84069
Ion Ratio Lower Upper
41 100
69 0.1 74.6 112.0#
39 46.8 40.2 60.4



#49
1,4-Dioxane
Concen: 0.960 ug/l
RT: 9.753 min Scan# 1326
Delta R.T. 0.053 min
Lab File: VN087060.D
Acq: 17 Jun 2025 15:26

Tgt Ion: 88 Resp: 61
Ion Ratio Lower Upper
88 100
43 1643931.1 0.0 0.0#
58 7144.3 57.7 86.5#

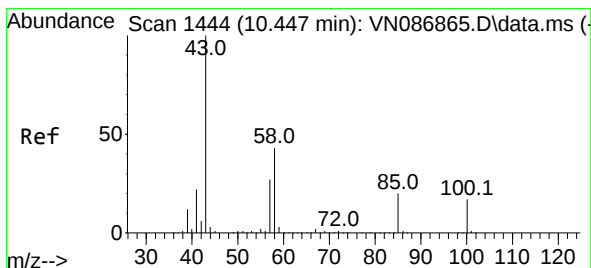
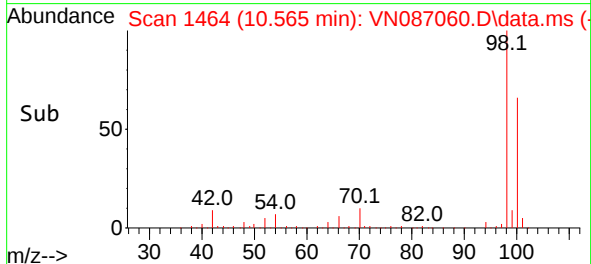
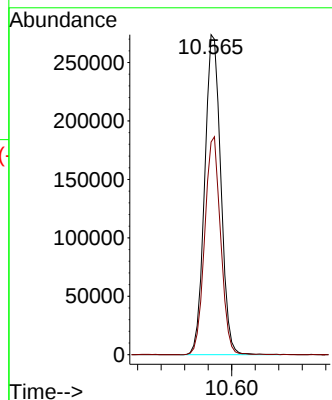
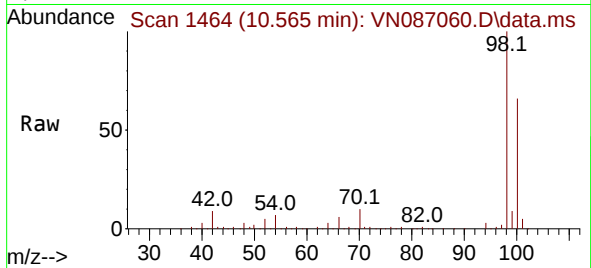




#50
Toluene-d8
Concen: 52.525 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.006 min
Lab File: VN087060.D
Acq: 17 Jun 2025 15:26

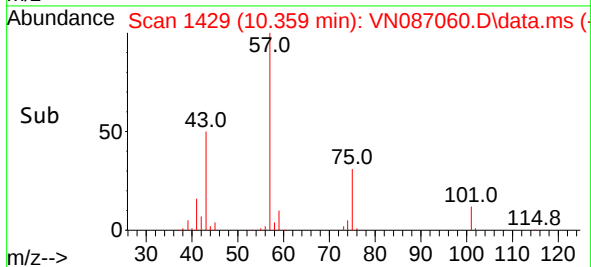
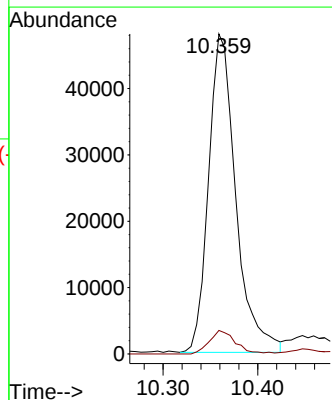
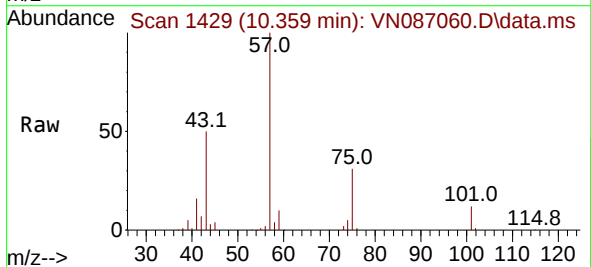
Instrument :
MSVOA_N
ClientSampleId :
MH-B

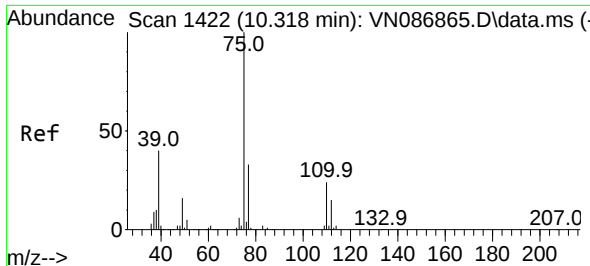
Tgt Ion: 98 Resp: 518462
Ion Ratio Lower Upper
98 100
100 67.4 53.4 80.0



#51
4-Methyl-2-Pentanone
Concen: 20.996 ug/l
RT: 10.359 min Scan# 1429
Delta R.T. -0.088 min
Lab File: VN087060.D
Acq: 17 Jun 2025 15:26

Tgt Ion: 43 Resp: 95950
Ion Ratio Lower Upper
43 100
58 7.2 34.2 51.4#

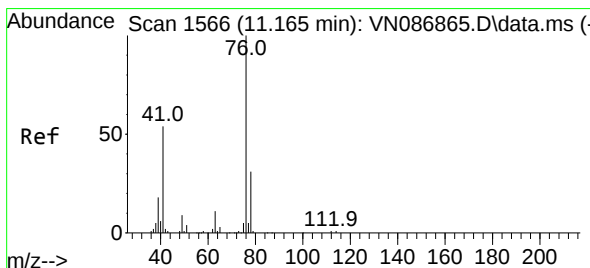
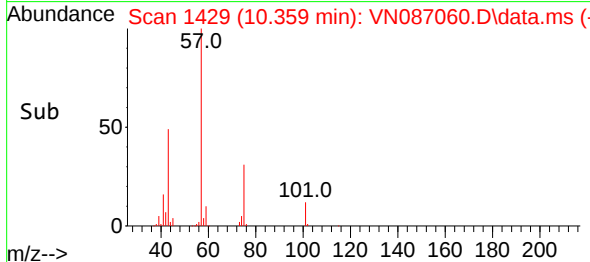
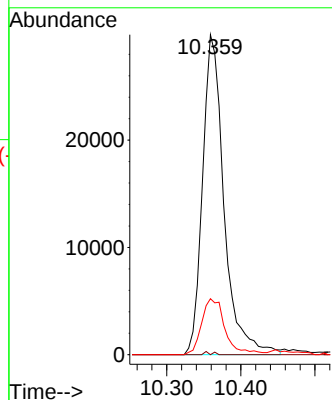
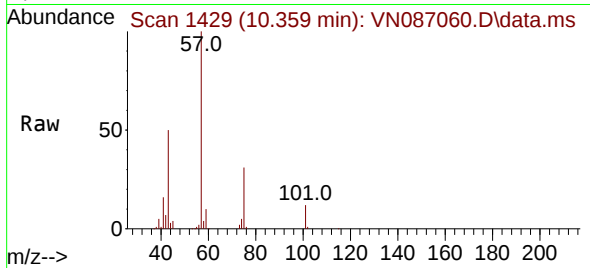




#54
 cis-1,3-Dichloropropene
 Concen: 12.427 ug/l
 RT: 10.359 min Scan# 1429
 Delta R.T. 0.041 min
 Lab File: VN087060.D
 Acq: 17 Jun 2025 15:26

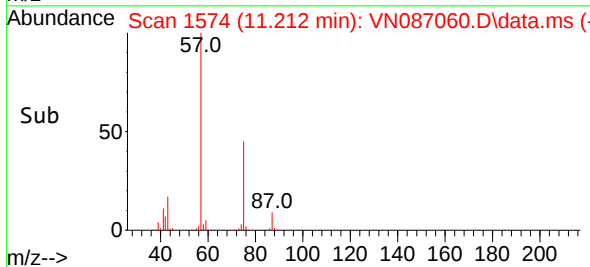
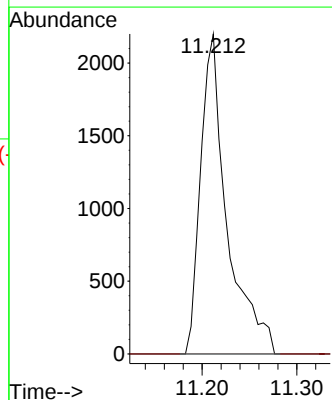
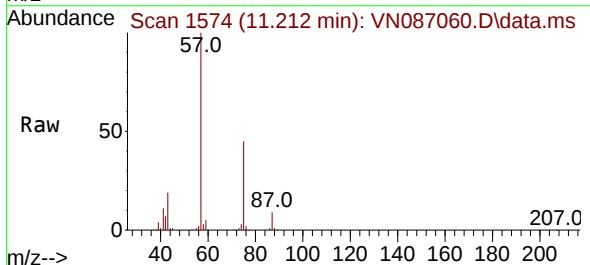
Instrument :
 MSVOA_N
 ClientSampleId :
 MH-B

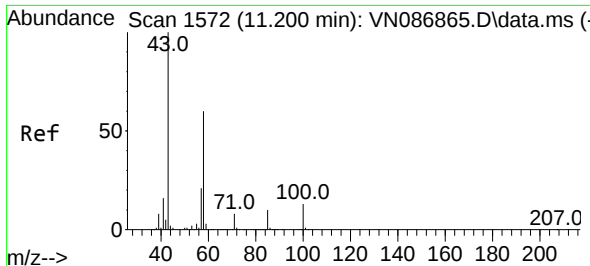
Tgt Ion: 75 Resp: 60059
 Ion Ratio Lower Upper
 75 100
 77 0.0 26.2 39.4#
 39 17.5 32.3 48.5#



#57
 1,3-Dichloropropane
 Concen: 0.859 ug/l
 RT: 11.212 min Scan# 1574
 Delta R.T. 0.047 min
 Lab File: VN087060.D
 Acq: 17 Jun 2025 15:26

Tgt Ion: 76 Resp: 4257
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.3 37.9#

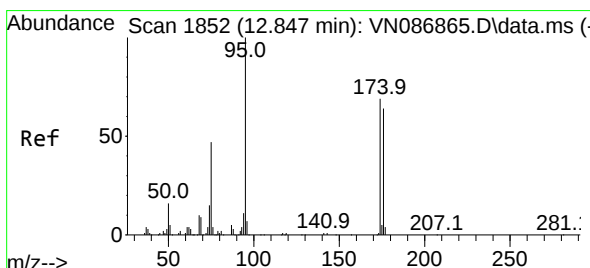
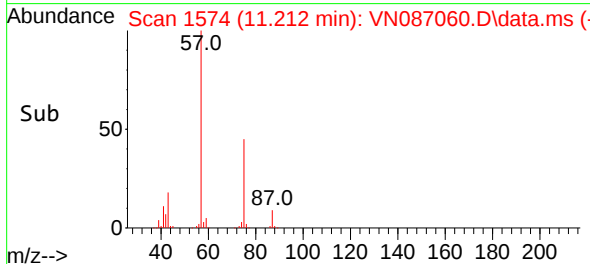
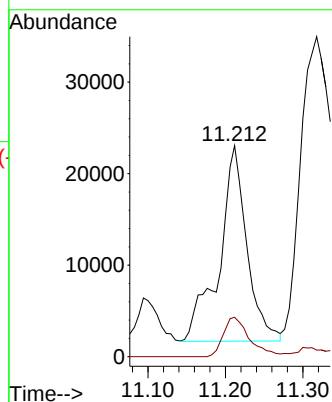
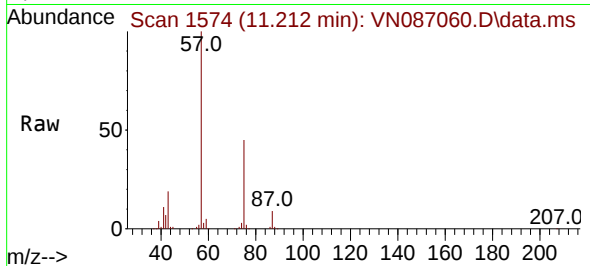




#59
2-Hexanone
Concen: 18.020 ug/l
RT: 11.212 min Scan# 11
Delta R.T. 0.012 min
Lab File: VN087060.D
Acq: 17 Jun 2025 15:26

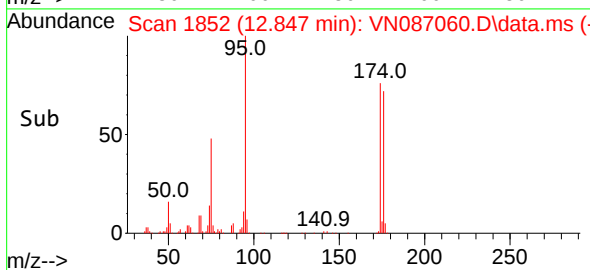
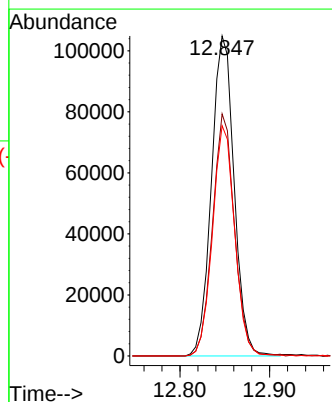
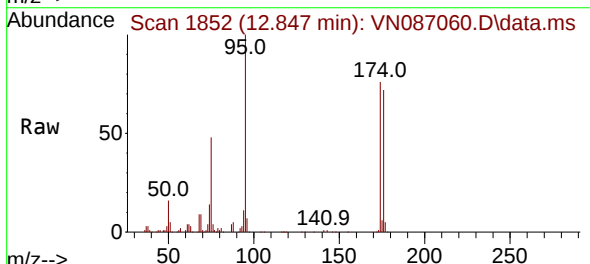
Instrument :
MSVOA_N
ClientSampleId :
MH-B

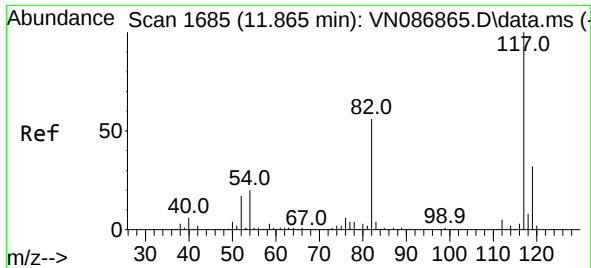
Tgt Ion: 43 Resp: 53047
Ion Ratio Lower Upper
43 100
58 19.1 30.4 91.3#



#62
4-Bromofluorobenzene
Concen: 50.108 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN087060.D
Acq: 17 Jun 2025 15:26

Tgt Ion: 95 Resp: 183759
Ion Ratio Lower Upper
95 100
174 73.2 0.0 141.8
176 70.6 0.0 132.6

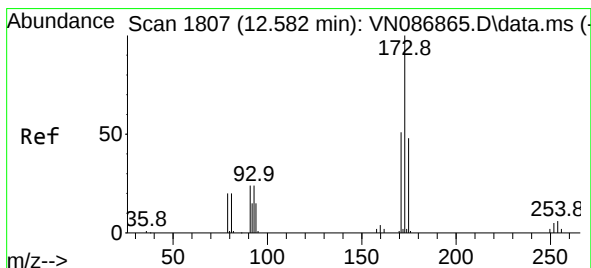
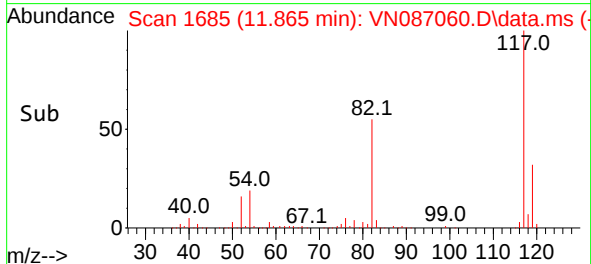
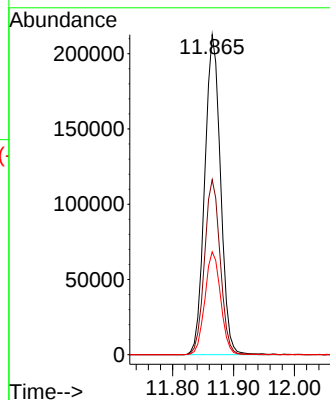
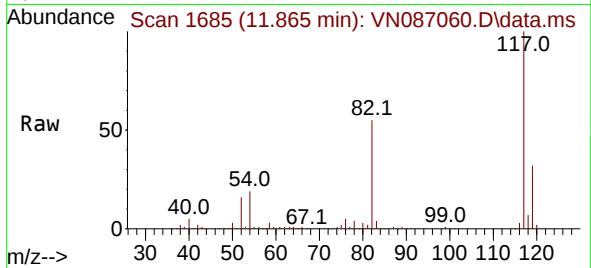




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 117
Delta R.T. -0.000 min
Lab File: VN087060.D
Acq: 17 Jun 2025 15:26

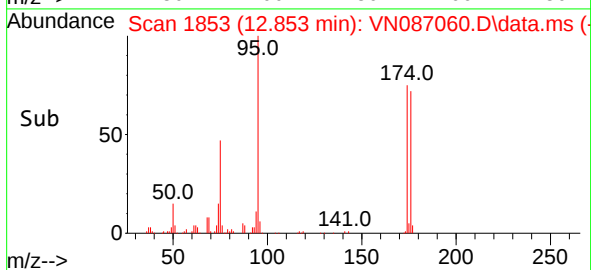
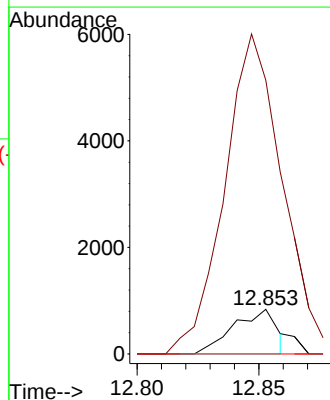
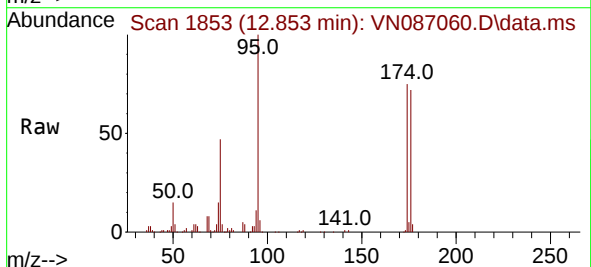
Instrument :
MSVOA_N
ClientSampleId :
MH-B

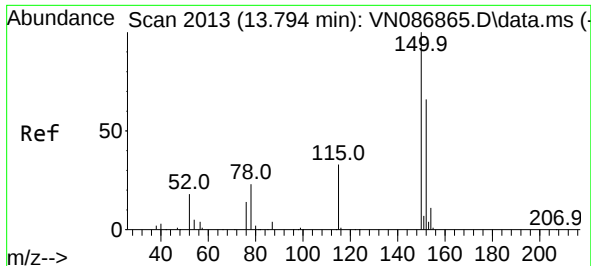
Tgt Ion:117 Resp: 382712
Ion Ratio Lower Upper
117 100
82 54.7 44.6 67.0
119 32.2 25.5 38.3



#71
Bromoform
Concen: 0.519 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.271 min
Lab File: VN087060.D
Acq: 17 Jun 2025 15:26

Tgt Ion:173 Resp: 1043
Ion Ratio Lower Upper
173 100
175 834.0 24.1 72.4#
254 0.0 0.0 0.0

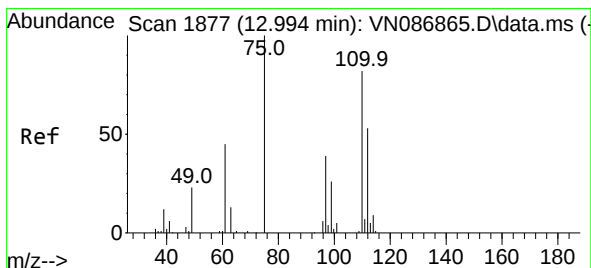
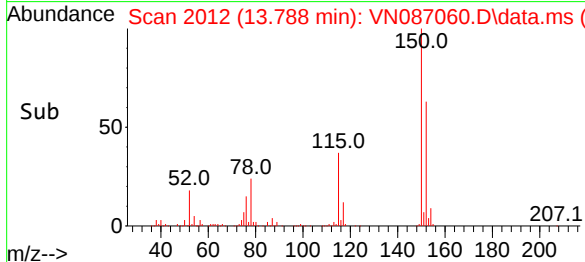
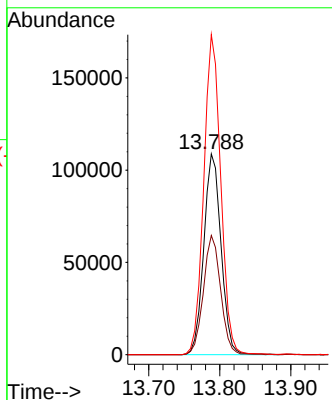
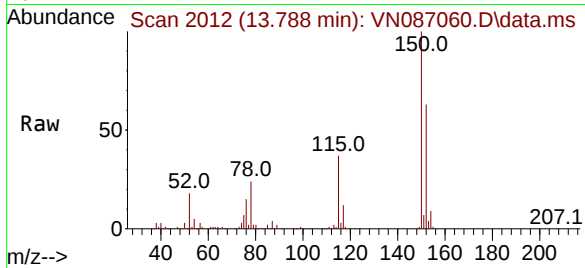




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 20
Delta R.T. -0.006 min
Lab File: VN087060.D
Acq: 17 Jun 2025 15:26

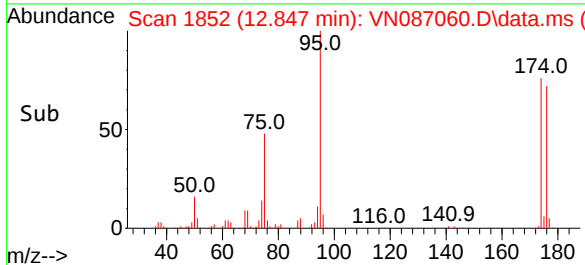
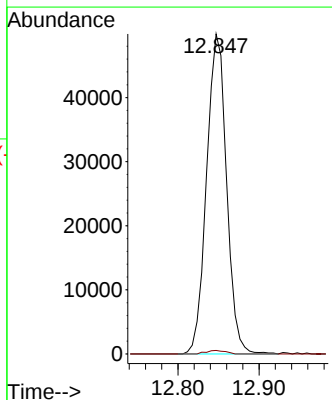
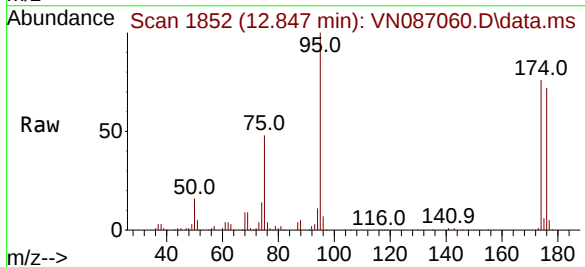
Instrument :
MSVOA_N
ClientSampleId :
MH-B

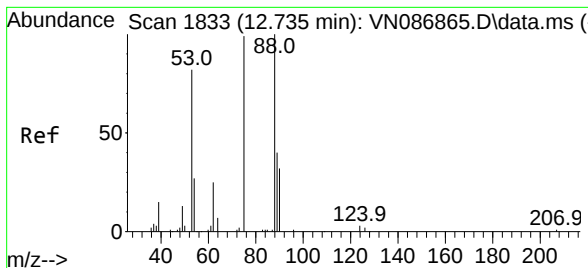
Tgt Ion:152 Resp: 183788
Ion Ratio Lower Upper
152 100
115 59.5 30.1 90.5
150 157.1 0.0 345.0



#76
1,2,3-Trichloropropane
Concen: 19.540 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.147 min
Lab File: VN087060.D
Acq: 17 Jun 2025 15:26

Tgt Ion: 75 Resp: 85364
Ion Ratio Lower Upper
75 100
77 1.1 79.3 237.9#

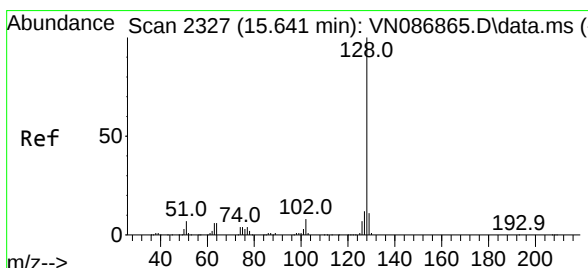
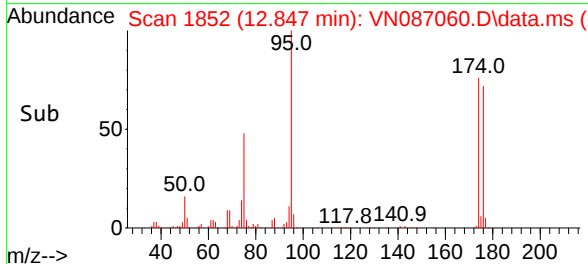
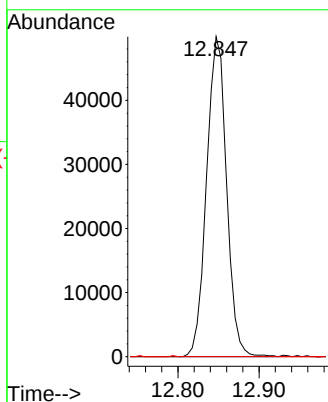
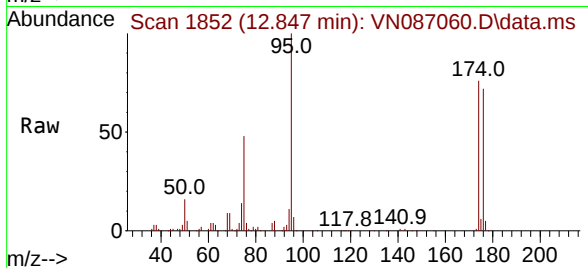




#81
trans-1,4-Dichloro-2-butene
Concen: 44.980 ug/l
RT: 12.847 min Scan# 1833
Delta R.T. 0.112 min
Lab File: VN087060.D
Acq: 17 Jun 2025 15:26

Instrument :
MSVOA_N
ClientSampleId :
MH-B

Tgt Ion:	75	Resp:	85364
Ion Ratio	Lower	Upper	
75	100		
53	0.0	66.6	99.8#
89	0.0	36.7	55.1#



#95
Naphthalene
Concen: 0.279 ug/l
RT: 15.635 min Scan# 2326
Delta R.T. -0.006 min
Lab File: VN087060.D
Acq: 17 Jun 2025 15:26

Tgt Ion:	128	Resp:	3849
Ion Ratio	Lower	Upper	
128	100		
127	5.1	10.2	15.2#
129	8.2	8.8	13.2#

