

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061125\
 Data File : VN086955.D
 Acq On : 11 Jun 2025 17:41
 Operator : JC\MD
 Sample : Q2231-03
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-15-20250604

Quant Time: Jun 12 01:37:13 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)

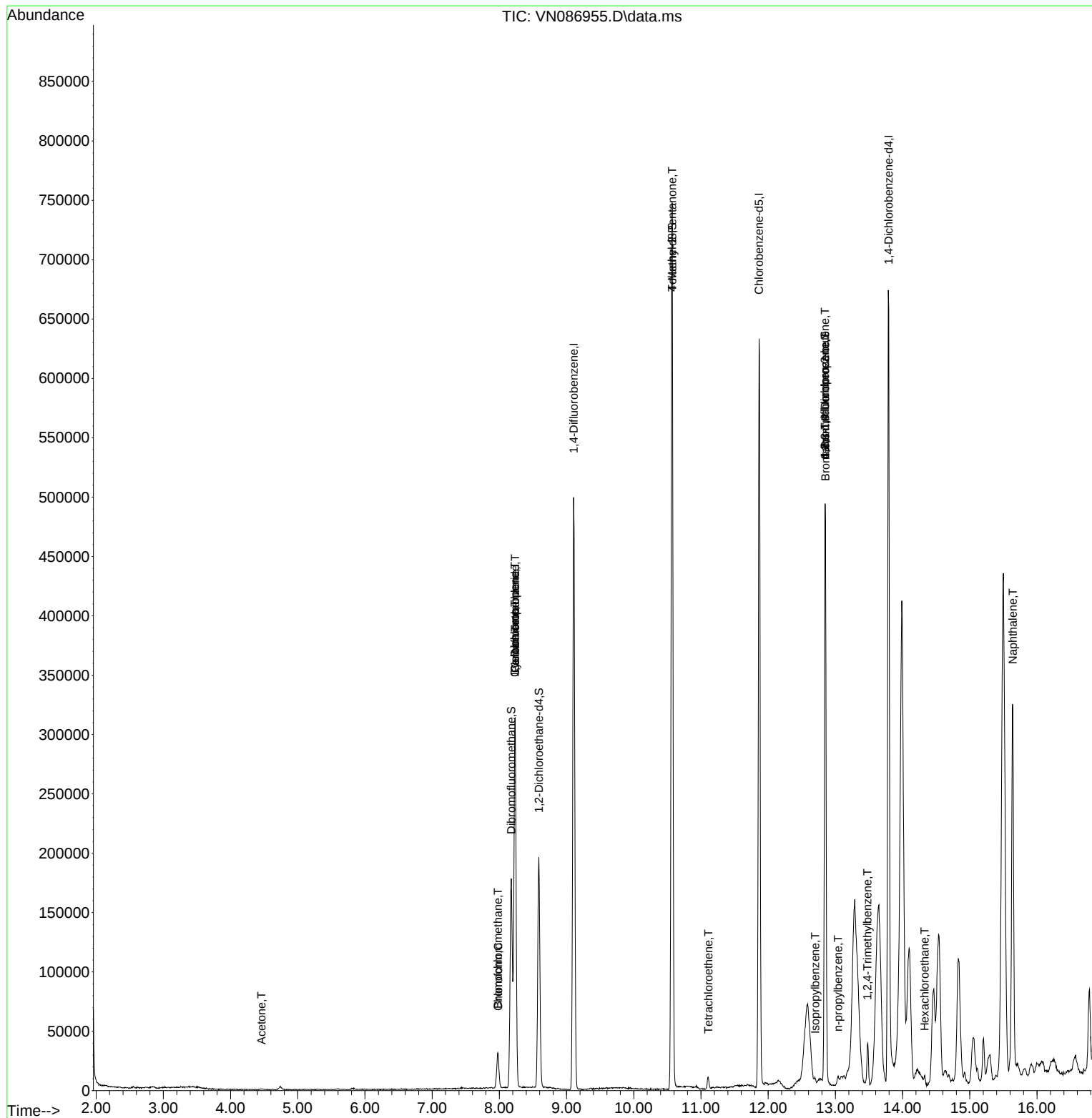
Internal Standards						
1) Pentafluorobenzene	8.235	168	256900	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	474084	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	406220	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	209580	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.588	65	154402	44.889	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	89.780%		
35) Dibromofluoromethane	8.177	113	136616	48.626	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	97.260%		
50) Toluene-d8	10.571	98	560070	50.356	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	100.720%		
62) 4-Bromofluorobenzene	12.847	95	200714	48.573	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	97.140%		
Target Compounds					Qvalue	
16) Acetone	4.459	43	1868	1.024	ug/l #	40
28) Bromochloromethane	7.977	49	1902	0.672	ug/l #	13
30) Chloroform	7.983	83	29938	5.211	ug/l	96
31) Cyclohexane	8.230	56	3954	0.709	ug/l #	1
36) 1,1-Dichloropropene	8.230	75	18967	4.531	ug/l #	48
38) Carbon Tetrachloride	8.235	117	24577	5.980	ug/l #	16
51) 4-Methyl-2-Pentanone	10.571	43	1978	0.384	ug/l #	1
64) Tetrachloroethene	11.112	164	2566	0.998	ug/l #	82
71) Bromoform	12.853	173	1041	0.488	ug/l #	1
73) Isopropylbenzene	12.700	105	4218	0.276	ug/l	99
76) 1,2,3-Trichloropropane	12.847	75	91398	18.346	ug/l #	1
78) n-propylbenzene	13.041	91	4805	0.259	ug/l	98
81) trans-1,4-Dichloro-2-b...	12.847	75	91398	42.233	ug/l #	16
84) 1,2,4-Trimethylbenzene	13.476	105	21687	1.716	ug/l	99
90) Hexachloroethane	14.329	117	728	0.310	ug/l #	17
95) Naphthalene	15.641	128	319050	20.281	ug/l	99

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

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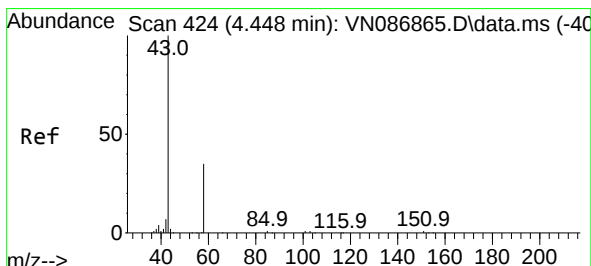
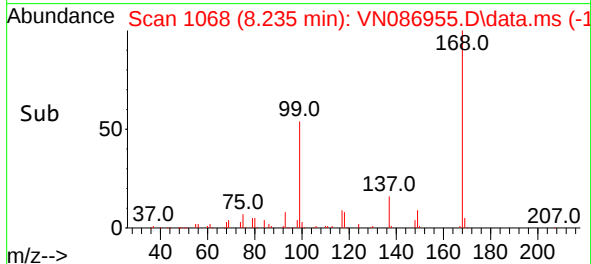
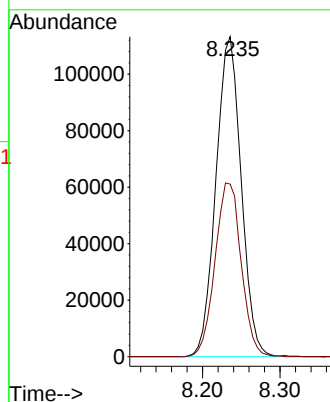
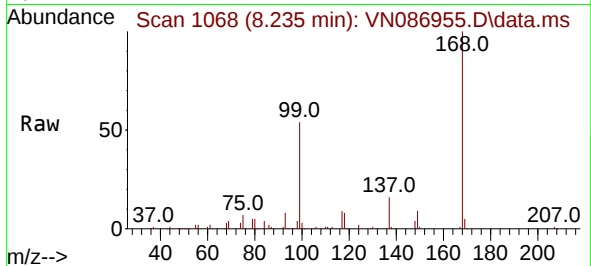




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.235 min Scan# 1068
Delta R.T. -0.001 min
Lab File: VN086955.D
Acq: 11 Jun 2025 17:41

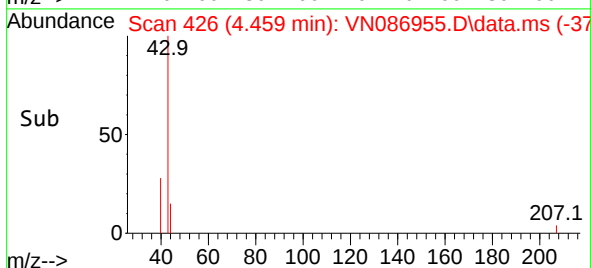
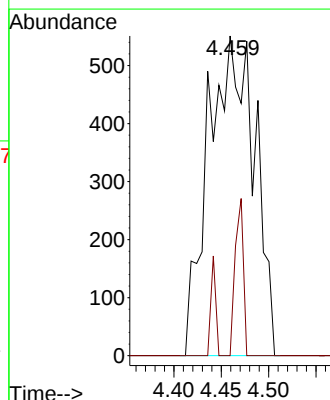
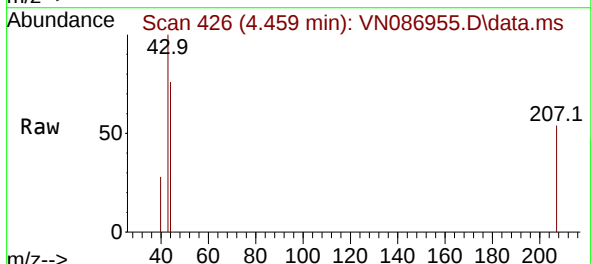
Instrument :
MSVOA_N
ClientSampleId :
MW-15-20250604

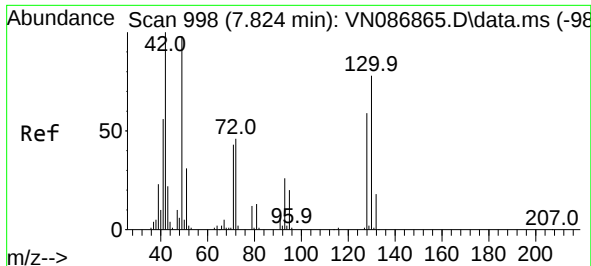
Tgt Ion:168 Resp: 256900
Ion Ratio Lower Upper
168 100
99 54.0 49.1 73.7



#16
Acetone
Concen: 1.024 ug/l
RT: 4.459 min Scan# 426
Delta R.T. 0.012 min
Lab File: VN086955.D
Acq: 11 Jun 2025 17:41

Tgt Ion: 43 Resp: 1868
Ion Ratio Lower Upper
43 100
58 0.0 28.0 42.0#

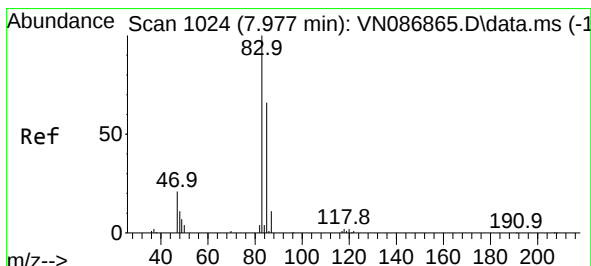
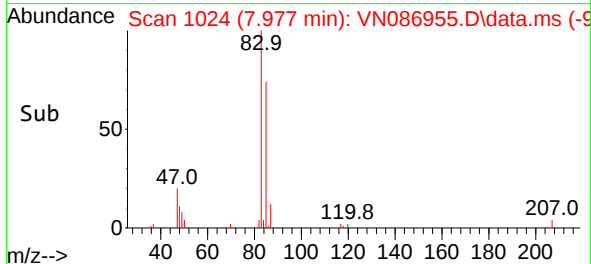
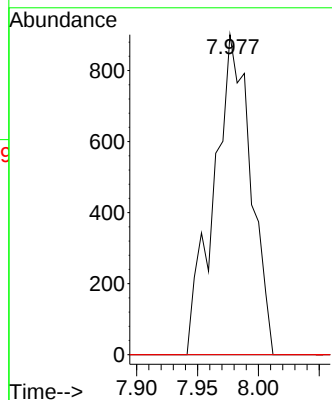
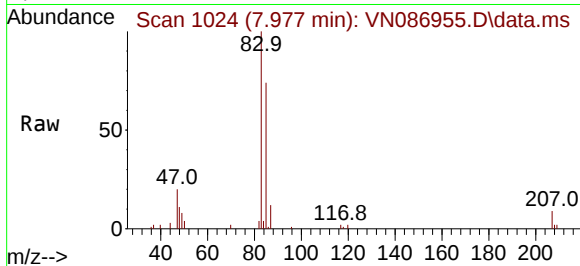




#28
Bromochloromethane
Concen: 0.672 ug/l
RT: 7.977 min Scan# 1024
Delta R.T. 0.153 min
Lab File: VN086955.D
Acq: 11 Jun 2025 17:41

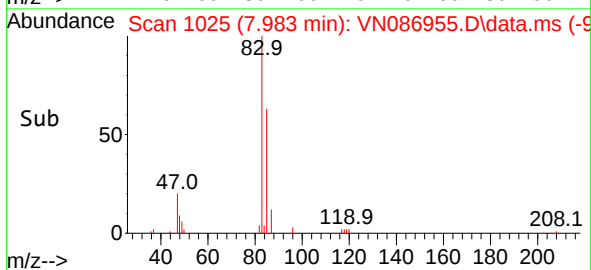
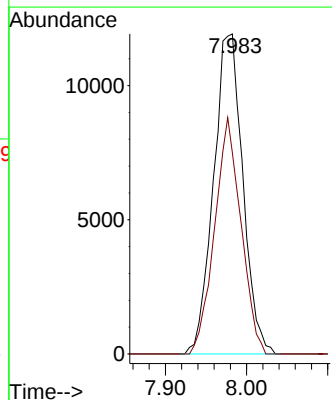
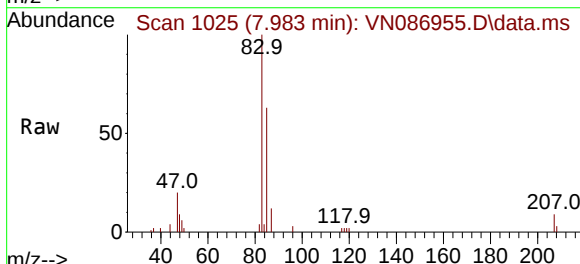
Instrument :
MSVOA_N
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MW-15-20250604

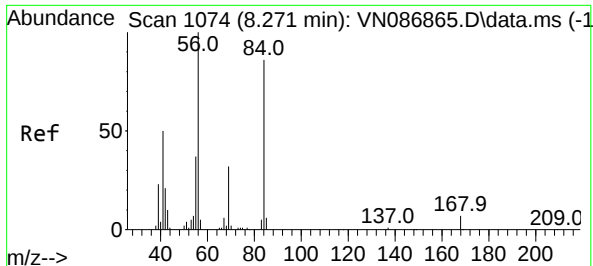
Tgt Ion: 49 Resp: 1902
Ion Ratio Lower Upper
49 100
129 0.0 0.0 3.8
130 0.0 62.2 93.2#



#30
Chloroform
Concen: 5.211 ug/l
RT: 7.983 min Scan# 1025
Delta R.T. 0.006 min
Lab File: VN086955.D
Acq: 11 Jun 2025 17:41

Tgt Ion: 83 Resp: 29938
Ion Ratio Lower Upper
83 100
85 62.9 52.9 79.3

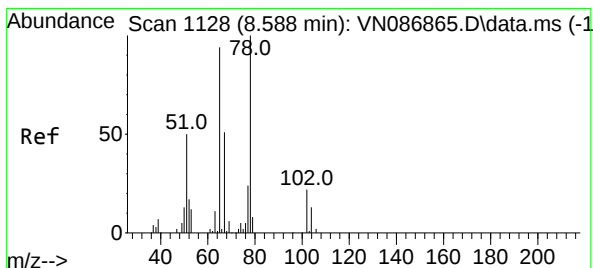
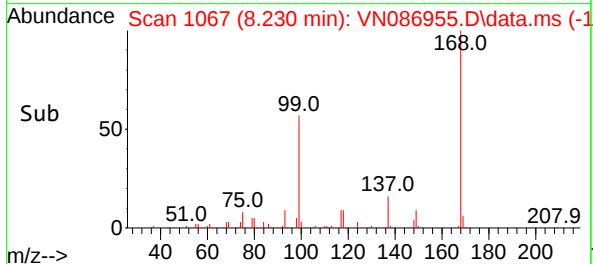
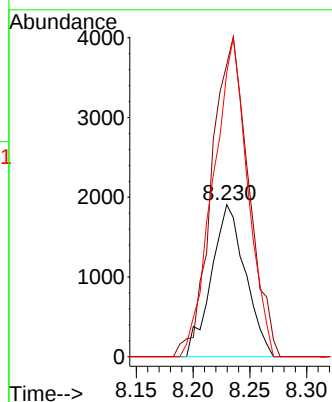
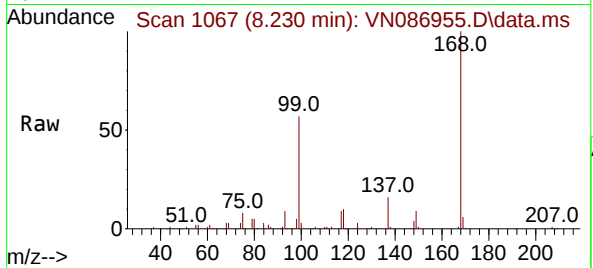




#31
Cyclohexane
Concen: 0.709 ug/l
RT: 8.230 min Scan# 1067
Delta R.T. -0.041 min
Lab File: VN086955.D
Acq: 11 Jun 2025 17:41

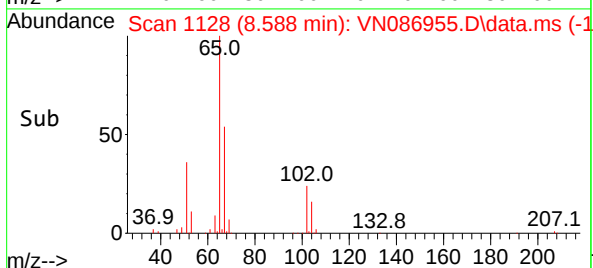
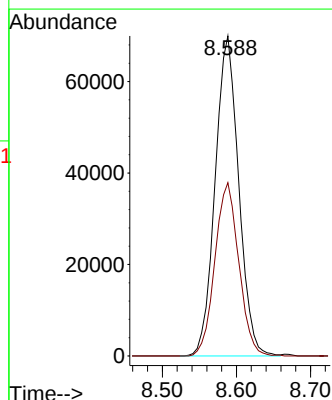
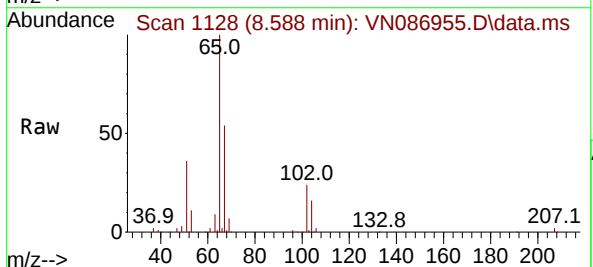
Instrument :
MSVOA_N
ClientSampleId :
MW-15-20250604

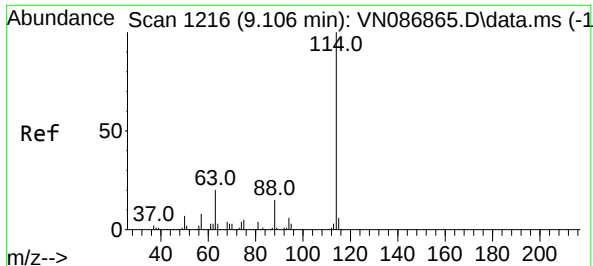
Tgt Ion: 56 Resp: 3954
Ion Ratio Lower Upper
56 100
69 192.2 25.4 38.0#
84 187.1 68.8 103.2#



#33
1,2-Dichloroethane-d4
Concen: 44.889 ug/l
RT: 8.588 min Scan# 1128
Delta R.T. -0.000 min
Lab File: VN086955.D
Acq: 11 Jun 2025 17:41

Tgt Ion: 65 Resp: 154402
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# 1

Delta R.T. -0.000 min

Lab File: VN086955.D

Acq: 11 Jun 2025 17:41

Instrument :

MSVOA_N

ClientSampleId :

MW-15-20250604

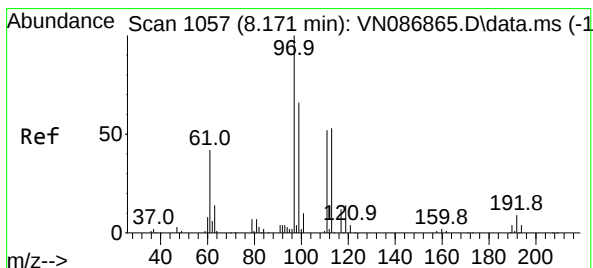
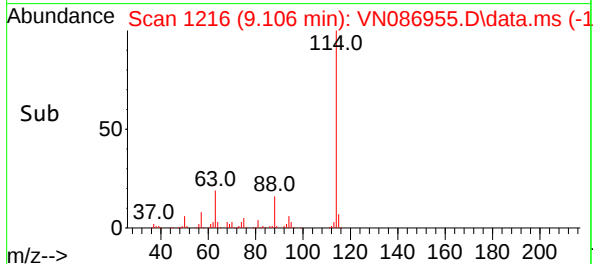
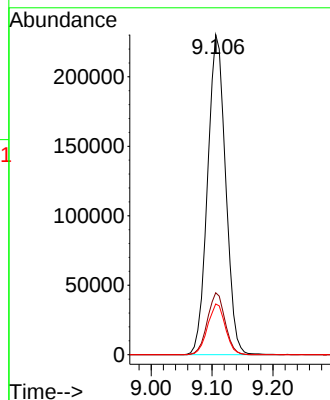
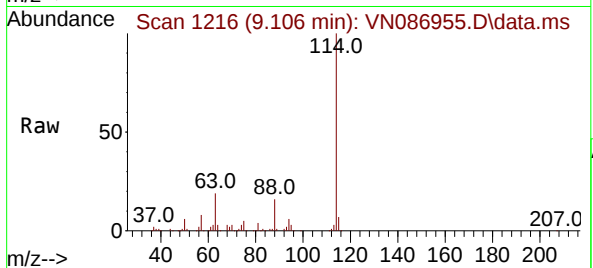
Tgt Ion:114 Resp: 474084

Ion Ratio Lower Upper

114 100

63 19.3 0.0 39.6

88 15.8 0.0 30.2



#35

Dibromofluoromethane

Concen: 48.626 ug/l

RT: 8.177 min Scan# 1058

Delta R.T. 0.006 min

Lab File: VN086955.D

Acq: 11 Jun 2025 17:41

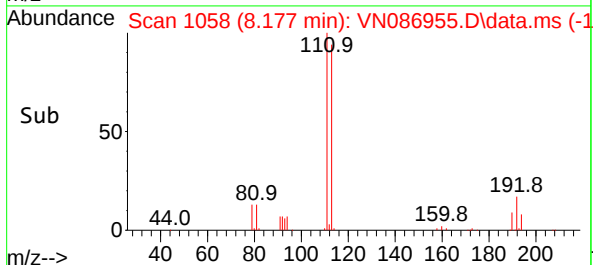
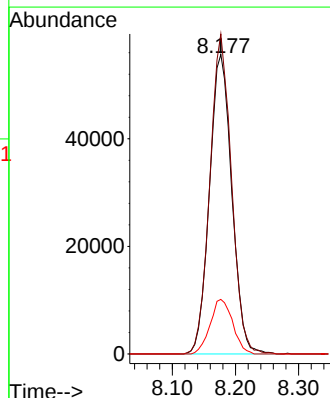
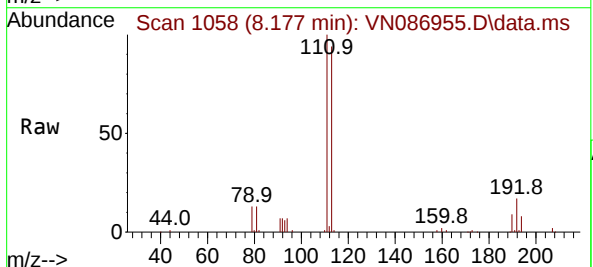
Tgt Ion:113 Resp: 136616

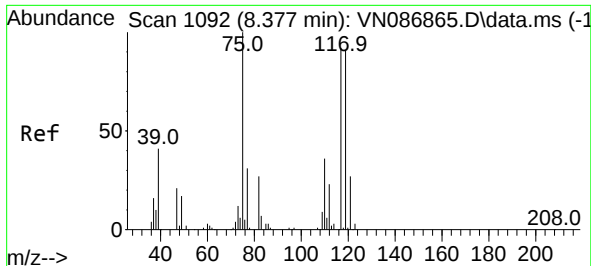
Ion Ratio Lower Upper

113 100

111 103.2 84.2 126.2

192 18.4 14.2 21.4

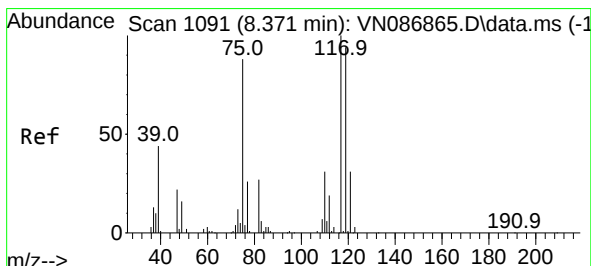
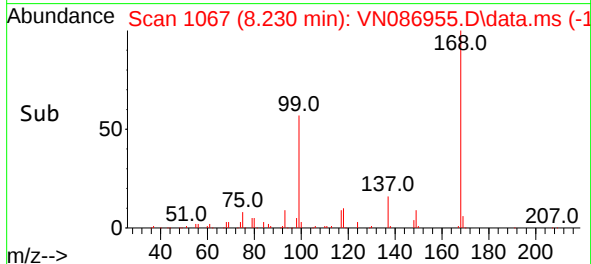
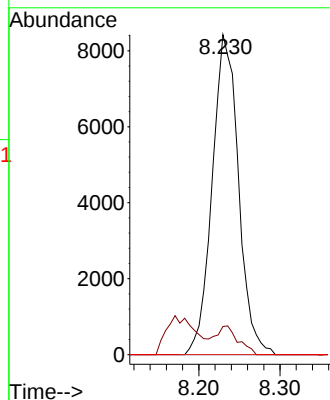
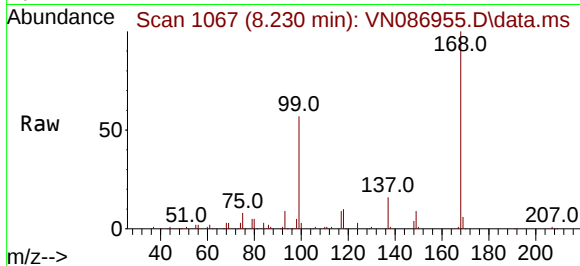




#36
 1,1-Dichloropropene
 Concen: 4.531 ug/l
 RT: 8.230 min Scan# 1067
 Delta R.T. -0.147 min
 Lab File: VN086955.D
 Acq: 11 Jun 2025 17:41

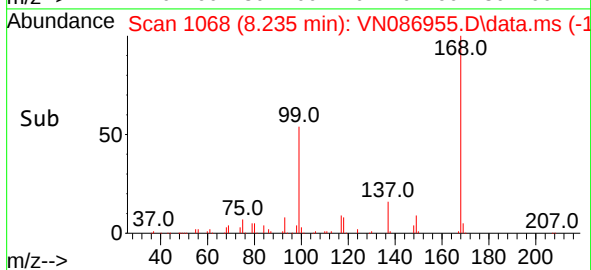
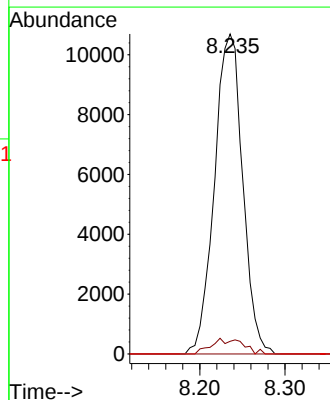
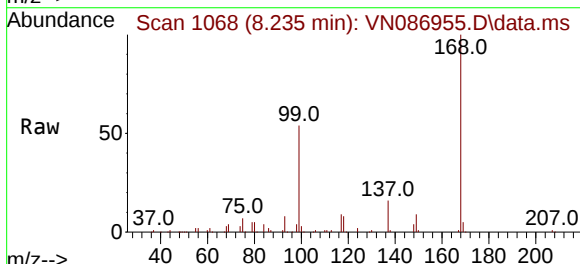
Instrument :
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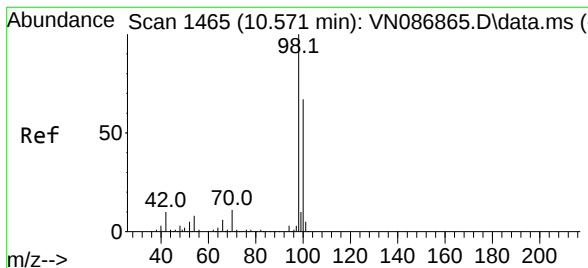
Tgt Ion: 75 Resp: 18967
 Ion Ratio Lower Upper
 75 100
 110 7.7 17.6 52.9#
 77 0.0 25.3 37.9#



#38
 Carbon Tetrachloride
 Concen: 5.980 ug/l
 RT: 8.235 min Scan# 1068
 Delta R.T. -0.135 min
 Lab File: VN086955.D
 Acq: 11 Jun 2025 17:41

Tgt Ion: 117 Resp: 24577
 Ion Ratio Lower Upper
 117 100
 119 3.9 75.0 112.6#
 121 0.0 24.9 37.3#





#50

Toluene-d8

Concen: 50.356 ug/l

RT: 10.571 min Scan# 1465

Delta R.T. -0.000 min

Lab File: VN086955.D

Acq: 11 Jun 2025 17:41

Instrument :

MSVOA_N

ClientSampleId :

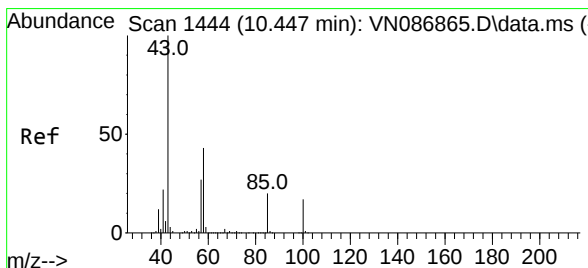
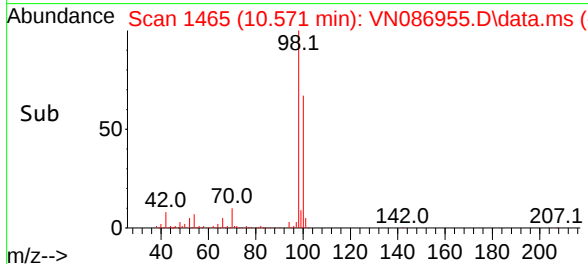
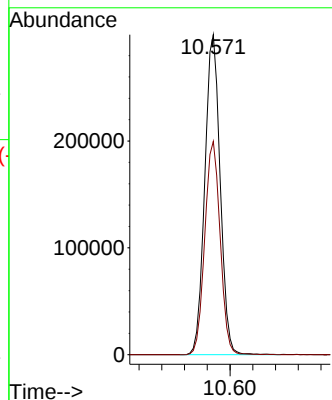
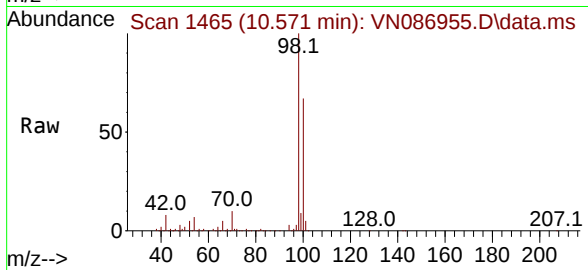
MW-15-20250604

Tgt Ion: 98 Resp: 560070

Ion Ratio Lower Upper

98 100

100 66.7 53.4 80.0



#51

4-Methyl-2-Pentanone

Concen: 0.384 ug/l

RT: 10.571 min Scan# 1465

Delta R.T. 0.123 min

Lab File: VN086955.D

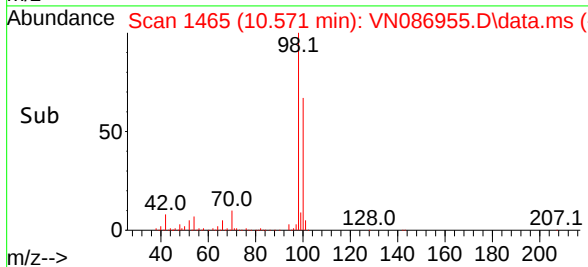
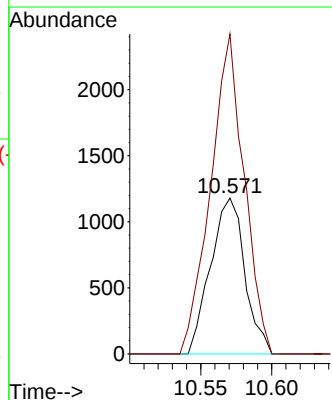
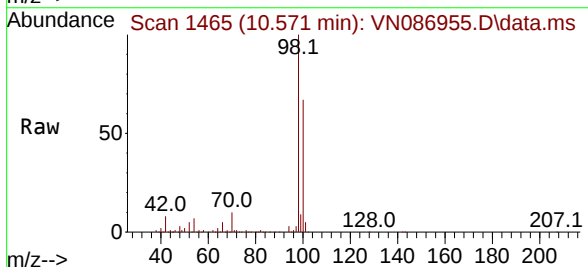
Acq: 11 Jun 2025 17:41

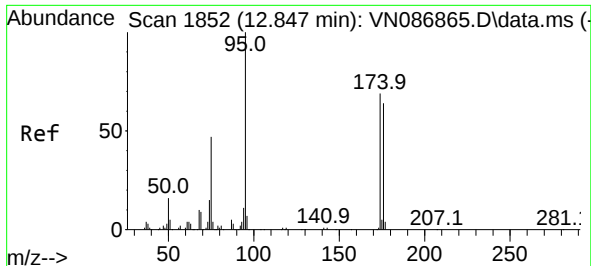
Tgt Ion: 43 Resp: 1978

Ion Ratio Lower Upper

43 100

58 201.2 34.2 51.4#

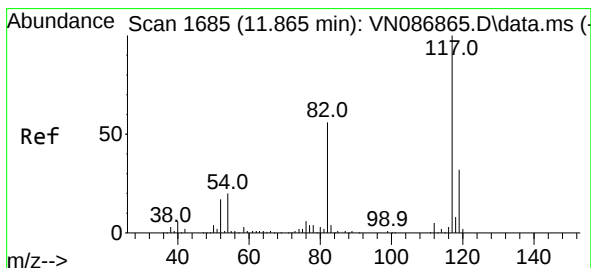
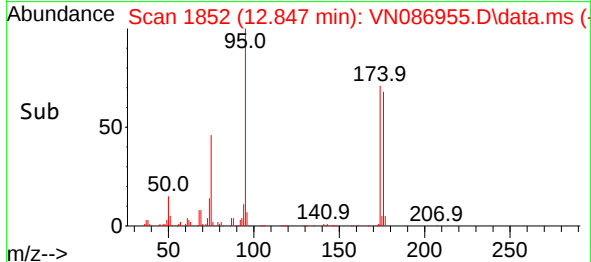
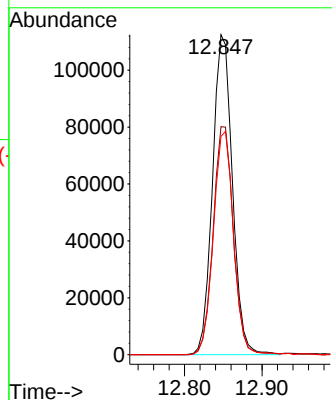
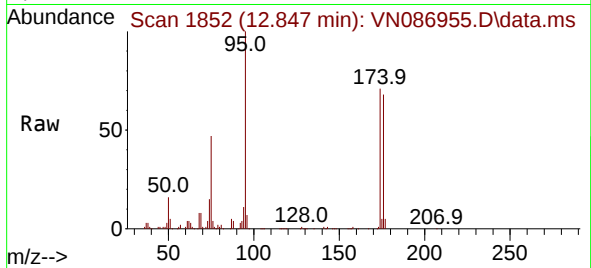




#62
4-Bromofluorobenzene
Concen: 48.573 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN086955.D
Acq: 11 Jun 2025 17:41

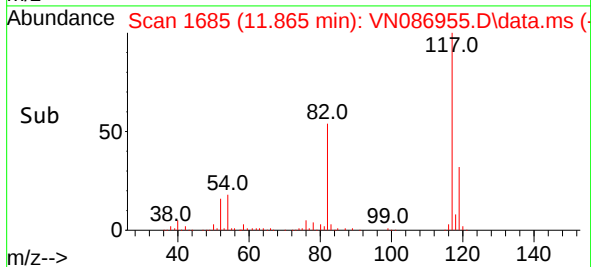
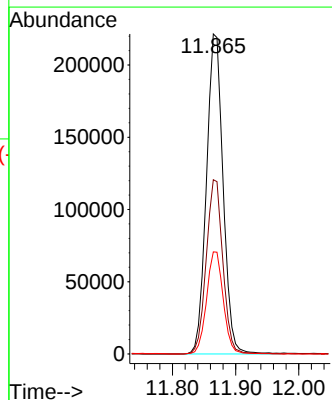
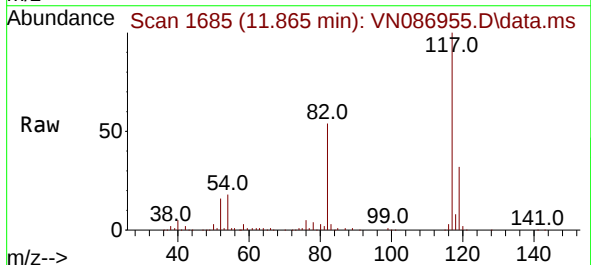
Instrument :
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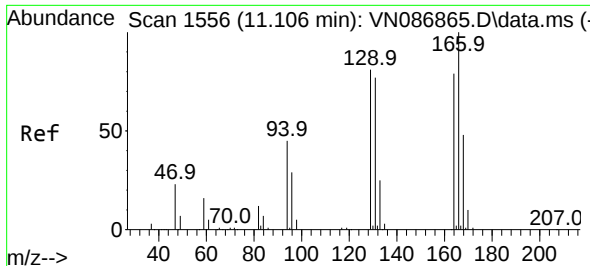
Tgt Ion: 95 Resp: 200714
Ion Ratio Lower Upper
95 100
174 72.3 0.0 141.8
176 70.6 0.0 132.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. -0.000 min
Lab File: VN086955.D
Acq: 11 Jun 2025 17:41

Tgt Ion: 117 Resp: 406220
Ion Ratio Lower Upper
117 100
82 54.5 44.6 67.0
119 31.9 25.5 38.3

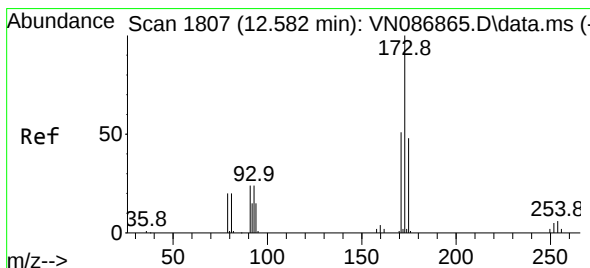
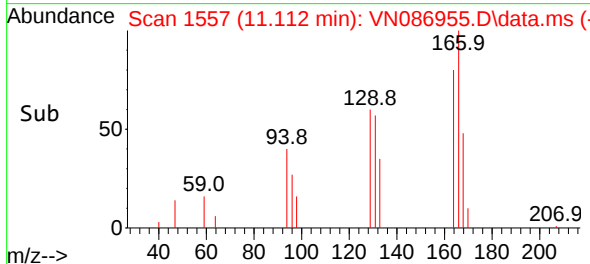
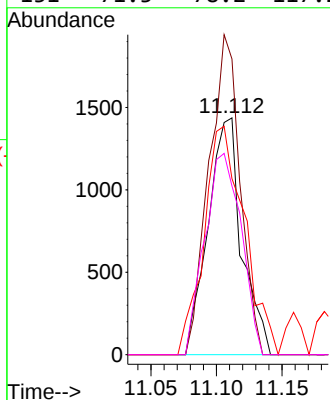
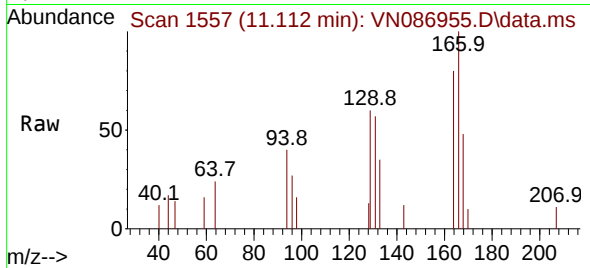




#64
Tetrachloroethene
Concen: 0.998 ug/l
RT: 11.112 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN086955.D
Acq: 11 Jun 2025 17:41

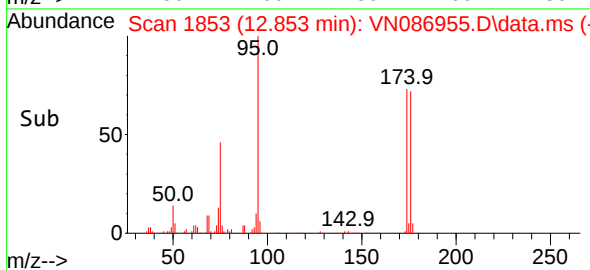
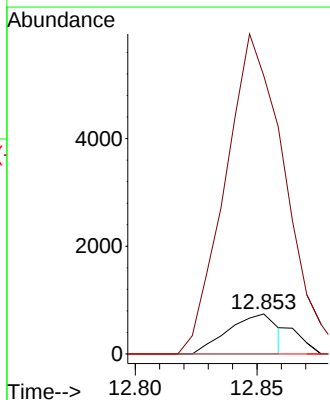
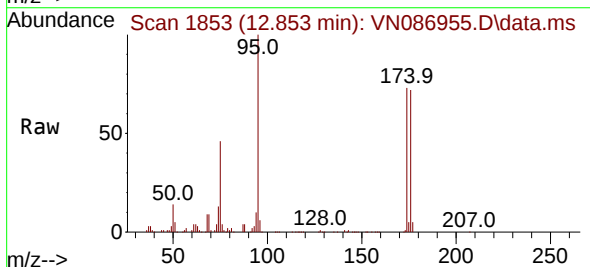
Instrument :
MSVOA_N
ClientSampleId :
MW-15-20250604

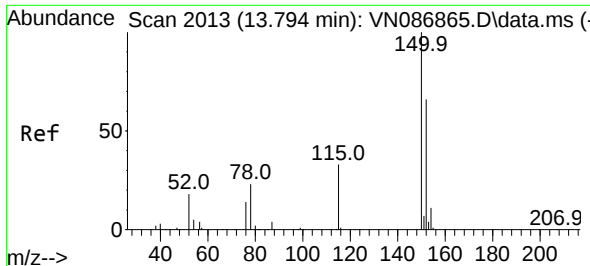
Tgt Ion:164 Resp: 2566
Ion Ratio Lower Upper
164 100
166 124.8 101.8 152.8
129 74.3 83.0 124.4#
131 71.3 78.2 117.2#



#71
Bromoform
Concen: 0.488 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.270 min
Lab File: VN086955.D
Acq: 11 Jun 2025 17:41

Tgt Ion:173 Resp: 1041
Ion Ratio Lower Upper
173 100
175 822.6 24.1 72.4#
254 0.0 0.0 0.0

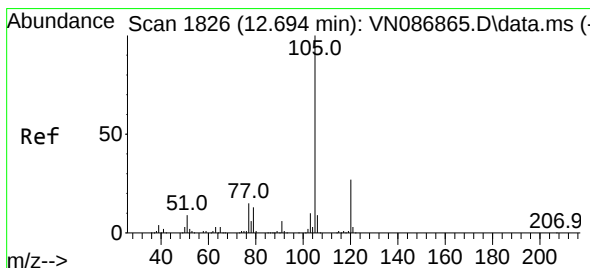
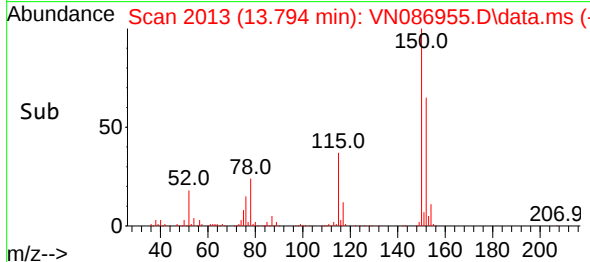
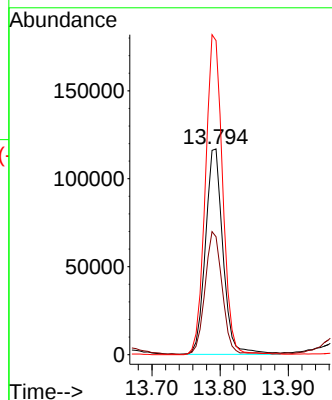
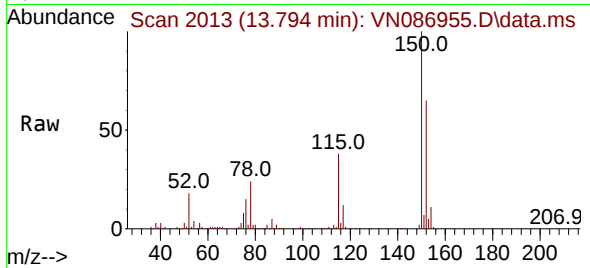




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.794 min Scan# 2013
Delta R.T. -0.000 min
Lab File: VN086955.D
Acq: 11 Jun 2025 17:41

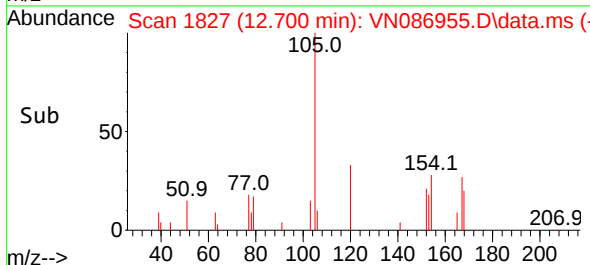
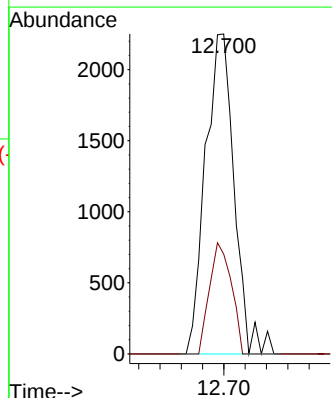
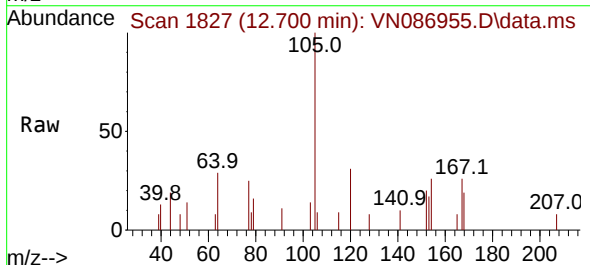
Instrument :
MSVOA_N
ClientSampleId :
MW-15-20250604

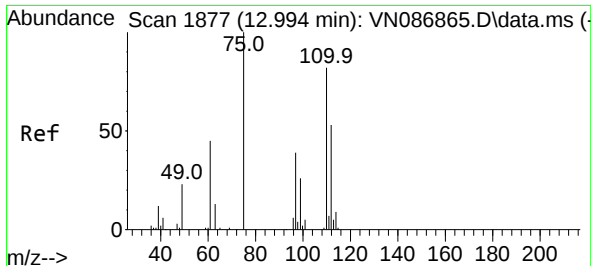
Tgt Ion:152 Resp: 209580
Ion Ratio Lower Upper
152 100
115 57.6 30.1 90.5
150 152.7 0.0 345.0



#73
Isopropylbenzene
Concen: 0.276 ug/l
RT: 12.700 min Scan# 1827
Delta R.T. 0.006 min
Lab File: VN086955.D
Acq: 11 Jun 2025 17:41

Tgt Ion:105 Resp: 4218
Ion Ratio Lower Upper
105 100
120 26.5 13.5 40.4

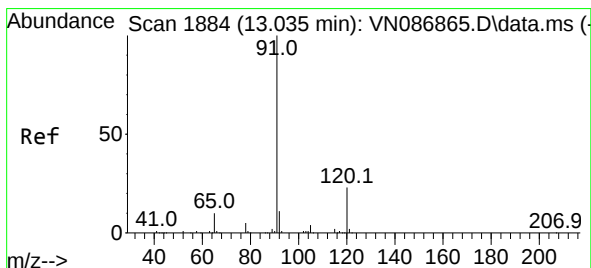
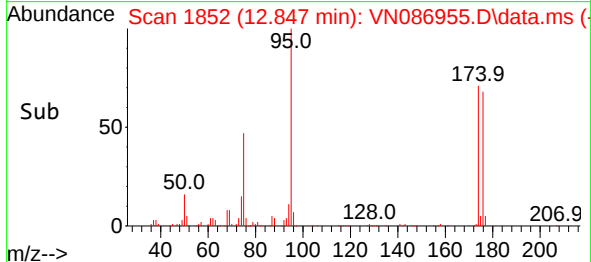
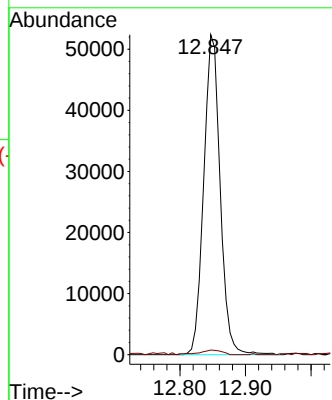
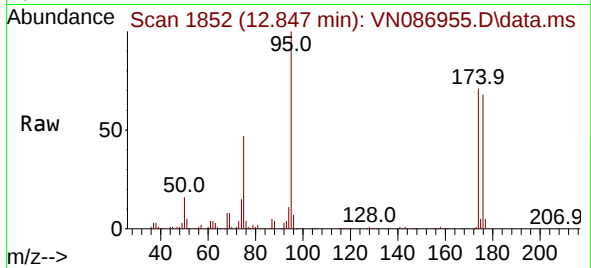




#76
1,2,3-Trichloropropane
Concen: 18.346 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.147 min
Lab File: VN086955.D
Acq: 11 Jun 2025 17:41

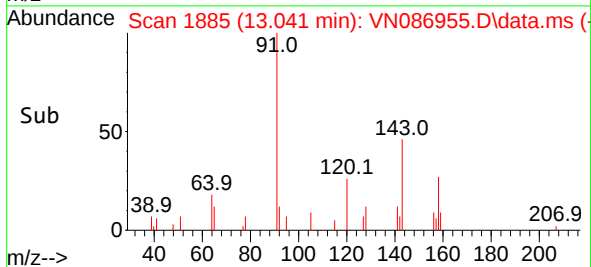
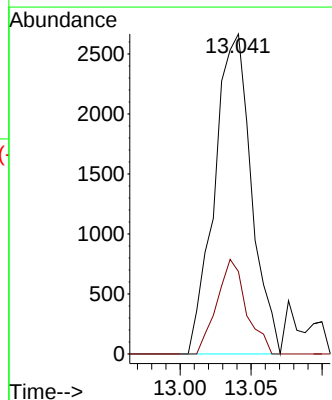
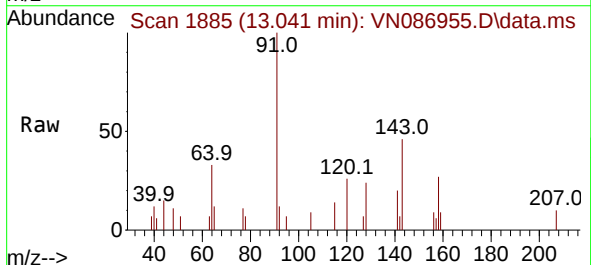
Instrument :
MSVOA_N
ClientSampleId :
MW-15-20250604

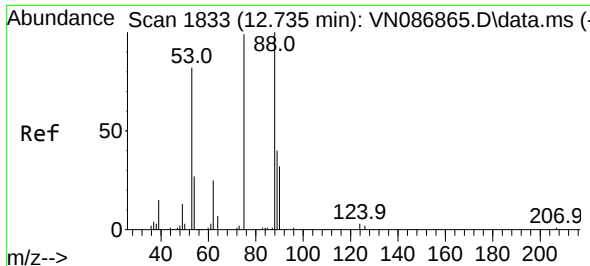
Tgt Ion: 75 Resp: 91398
Ion Ratio Lower Upper
75 100
77 2.0 79.3 237.9#



#78
n-propylbenzene
Concen: 0.259 ug/l
RT: 13.041 min Scan# 1885
Delta R.T. 0.006 min
Lab File: VN086955.D
Acq: 11 Jun 2025 17:41

Tgt Ion: 91 Resp: 4805
Ion Ratio Lower Upper
91 100
120 23.7 11.4 34.2

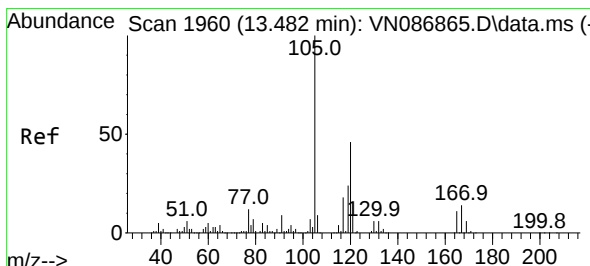
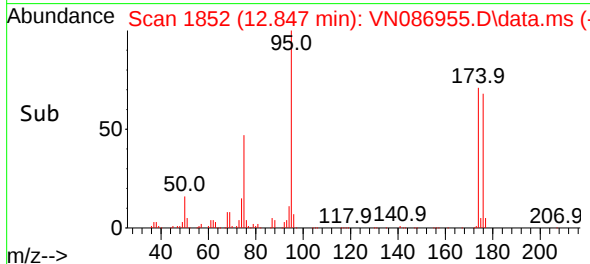
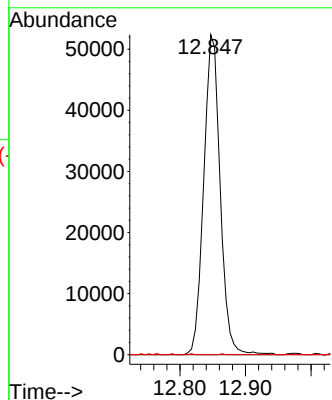
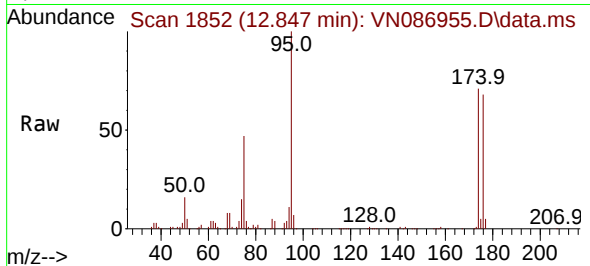




#81
trans-1,4-Dichloro-2-butene
Concen: 42.233 ug/l
RT: 12.847 min Scan# 1833
Delta R.T. 0.112 min
Lab File: VN086955.D
Acq: 11 Jun 2025 17:41

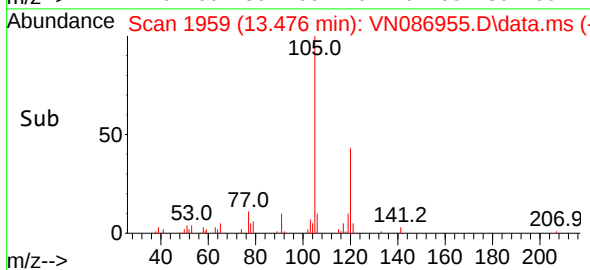
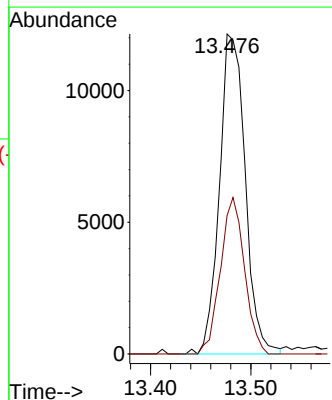
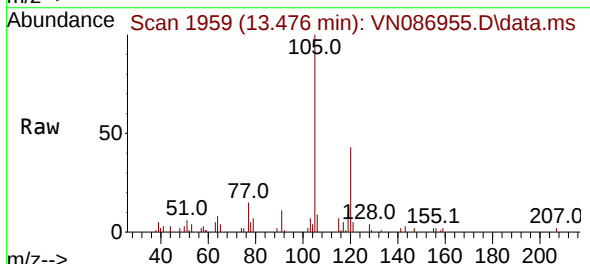
Instrument :
MSVOA_N
ClientSampleId :
MW-15-20250604

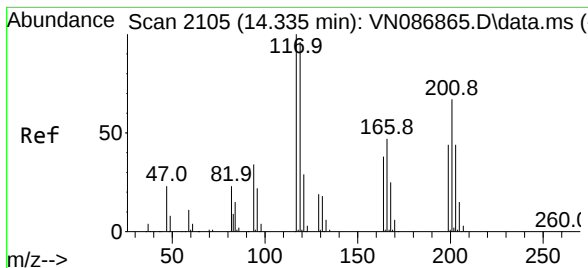
Tgt Ion: 75 Resp: 91398
Ion Ratio Lower Upper
75 100
53 0.0 66.6 99.8#
89 0.1 36.7 55.1#



#84
1,2,4-Trimethylbenzene
Concen: 1.716 ug/l
RT: 13.476 min Scan# 1959
Delta R.T. -0.006 min
Lab File: VN086955.D
Acq: 11 Jun 2025 17:41

Tgt Ion: 105 Resp: 21687
Ion Ratio Lower Upper
105 100
120 45.6 23.2 69.6





#90

Hexachloroethane

Concen: 0.310 ug/l

RT: 14.329 min Scan# 2104

Delta R.T. -0.006 min

Lab File: VN086955.D

Acq: 11 Jun 2025 17:41

Instrument :

MSVOA_N

ClientSampleId :

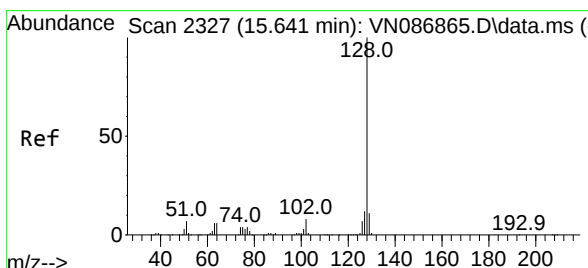
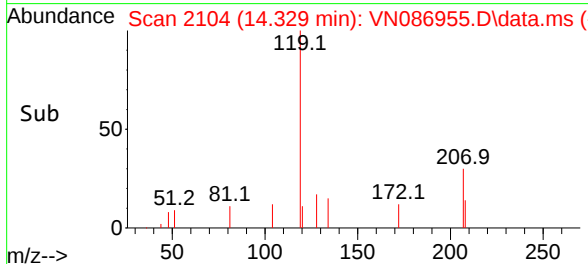
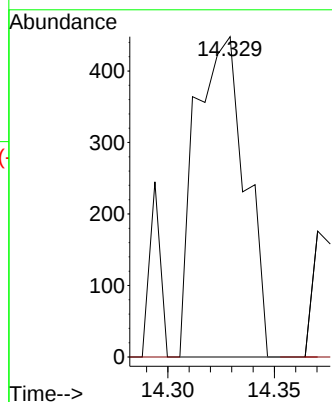
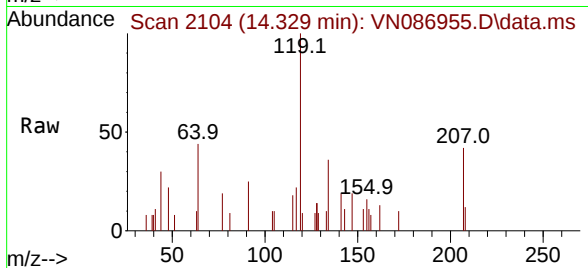
MW-15-20250604

Tgt Ion:117 Resp: 728

Ion Ratio Lower Upper

117 100

201 0.0 33.2 99.6#



#95

Naphthalene

Concen: 20.281 ug/l

RT: 15.641 min Scan# 2327

Delta R.T. -0.000 min

Lab File: VN086955.D

Acq: 11 Jun 2025 17:41

Tgt Ion:128 Resp: 319050

Ion Ratio Lower Upper

128 100

127 12.9 10.2 15.2

129 10.6 8.8 13.2

