

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061225\
 Data File : VN086987.D
 Acq On : 12 Jun 2025 18:56
 Operator : JC\MD
 Sample : Q2268-02
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-5-20250605

Quant Time: Jun 13 01:32:38 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)

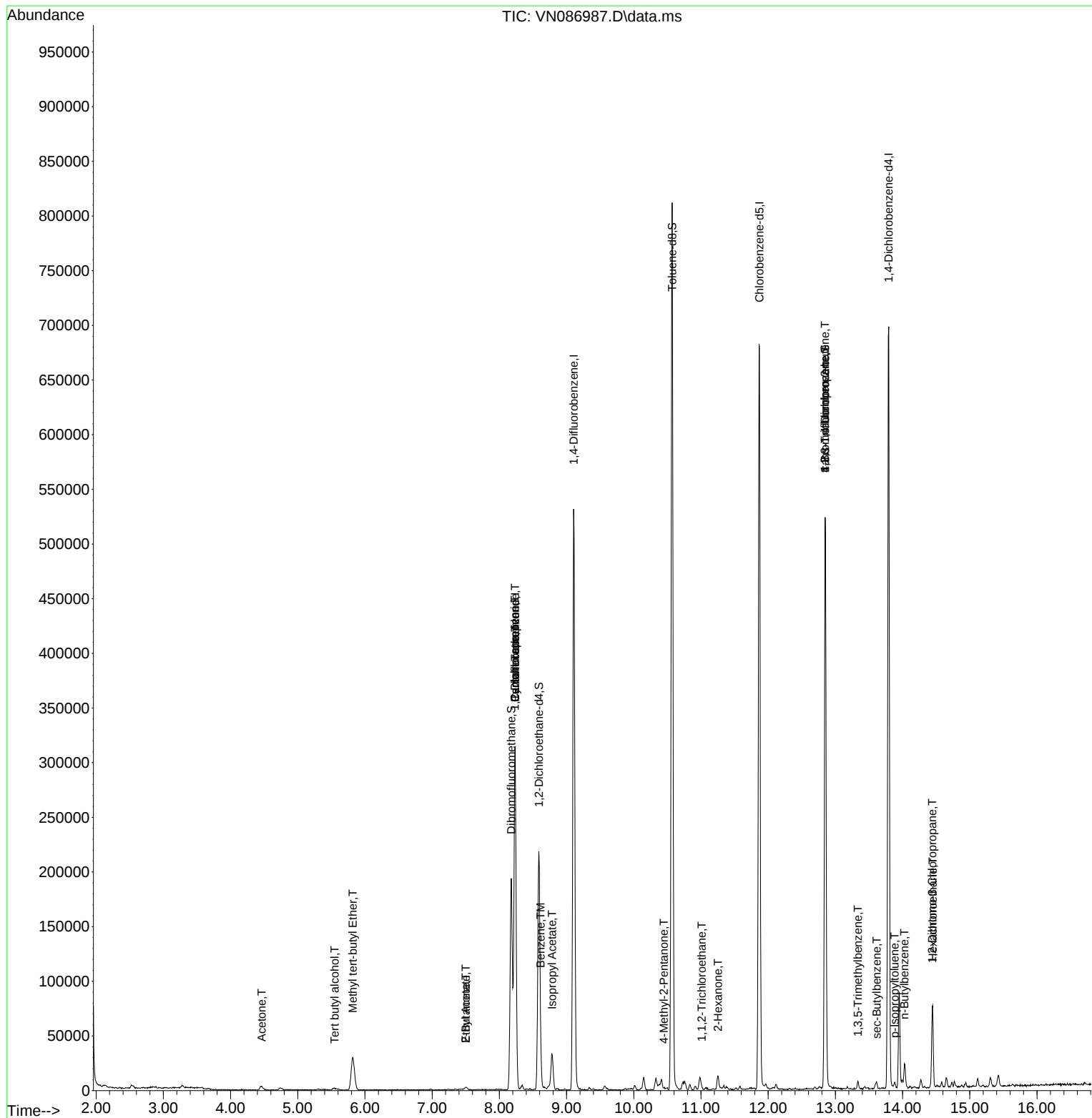
Internal Standards						
1) Pentafluorobenzene	8.235	168	244434	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	483373	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.870	117	434597	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	206986	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.588	65	178049	54.404	ug/l	0.00
Spiked Amount	50.000	Range 74 - 125	Recovery	= 108.800%		
35) Dibromofluoromethane	8.177	113	149029	52.025	ug/l	0.00
Spiked Amount	50.000	Range 75 - 124	Recovery	= 104.040%		
50) Toluene-d8	10.571	98	593715	52.355	ug/l	0.00
Spiked Amount	50.000	Range 86 - 113	Recovery	= 104.720%		
62) 4-Bromofluorobenzene	12.847	95	210546	49.973	ug/l	0.00
Spiked Amount	50.000	Range 77 - 121	Recovery	= 99.940%		
Target Compounds						
					Qvalue	
11) Tert butyl alcohol	5.547	59	3738	4.209	ug/l #	73
16) Acetone	4.465	43	7697	4.435	ug/l #	87
19) Methyl tert-butyl Ether	5.818	73	52132	5.292	ug/l	91
25) 2-Butanone	7.500	43	4941	1.751	ug/l	95
31) Cyclohexane	8.235	56	5307	1.000	ug/l #	1
36) 1,1-Dichloropropene	8.230	75	19257	4.511	ug/l #	47
37) Ethyl Acetate	7.500	43	4941	0.909	ug/l #	66
38) Carbon Tetrachloride	8.235	117	24025	5.733	ug/l #	17
40) Benzene	8.612	78	12784	0.916	ug/l	92
43) Isopropyl Acetate	8.782	43	9163	1.051	ug/l #	17
51) 4-Methyl-2-Pentanone	10.447	43	1258	0.240	ug/l #	33
55) 1,1,2-Trichloroethane	11.012	97	1518	0.462	ug/l #	14
59) 2-Hexanone	11.253	43	908	0.268	ug/l	84
76) 1,2,3-Trichloropropane	12.847	75	98213	19.961	ug/l #	1
80) 1,3,5-Trimethylbenzene	13.335	105	5350	0.430	ug/l	76
81) trans-1,4-Dichloro-2-b...	12.847	75	98213	45.950	ug/l #	16
85) sec-Butylbenzene	13.617	105	4201	0.254	ug/l	80
86) p-Isopropyltoluene	13.882	119	2793	0.204	ug/l	93
89) n-Butylbenzene	14.029	91	3584	0.270	ug/l #	1
90) Hexachloroethane	14.447	117	42580	18.362	ug/l #	17
92) 1,2-Dibromo-3-Chloropr...	14.441	75	634	0.519	ug/l #	2

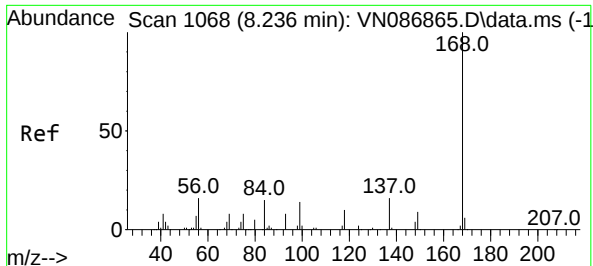
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Jun 13 01:32:38 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

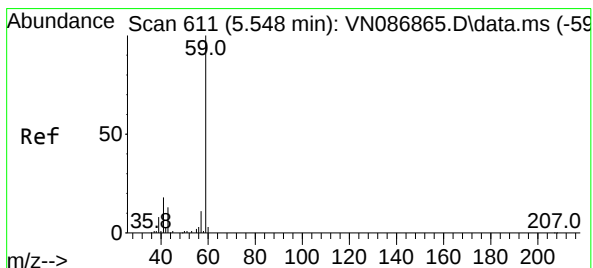
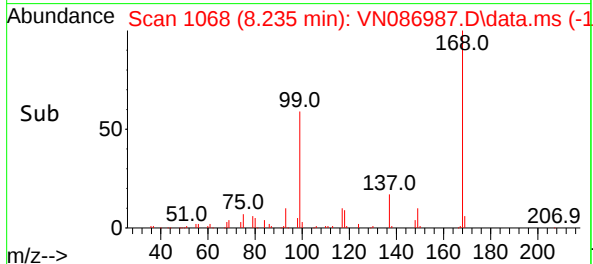
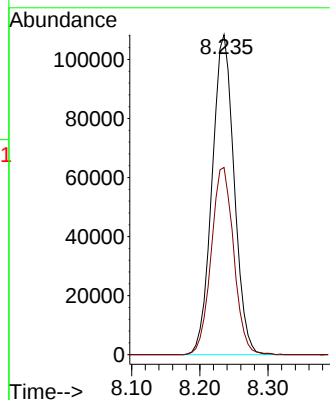
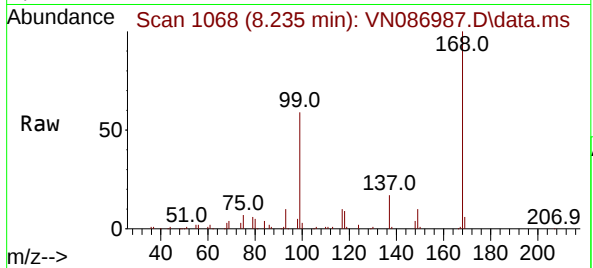




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.235 min Scan# 1068
Delta R.T. -0.001 min
Lab File: VN086987.D
Acq: 12 Jun 2025 18:56

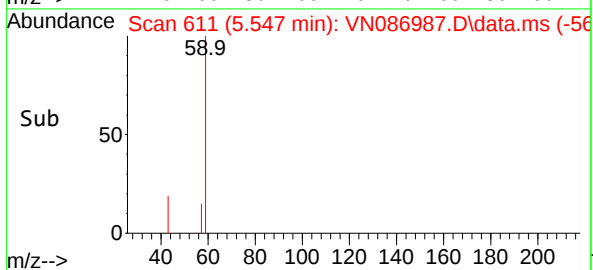
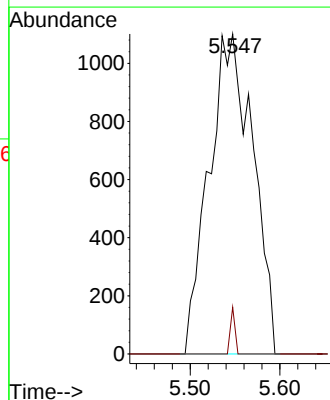
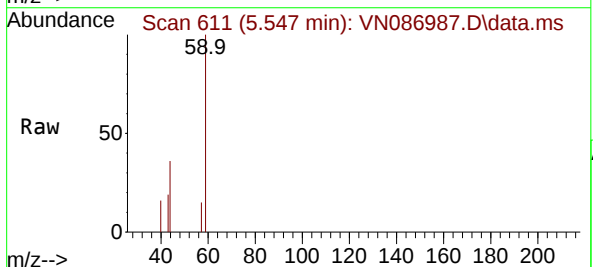
Instrument :
MSVOA_N
ClientSampleId :
MW-5-20250605

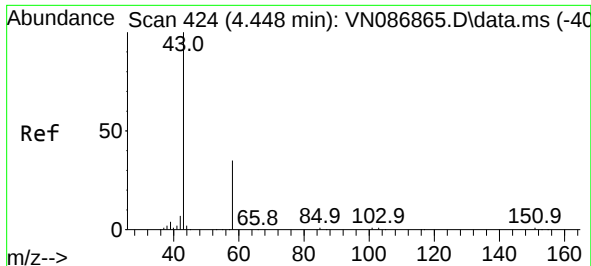
Tgt Ion:168 Resp: 244434
Ion Ratio Lower Upper
168 100
99 58.5 49.1 73.7



#11
Tert butyl alcohol
Concen: 4.209 ug/l
RT: 5.547 min Scan# 611
Delta R.T. -0.000 min
Lab File: VN086987.D
Acq: 12 Jun 2025 18:56

Tgt Ion: 59 Resp: 3738
Ion Ratio Lower Upper
59 100
57 0.0 8.1 12.1#

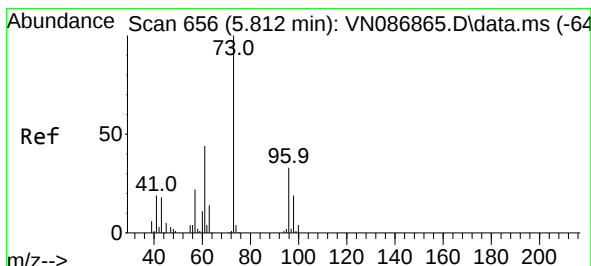
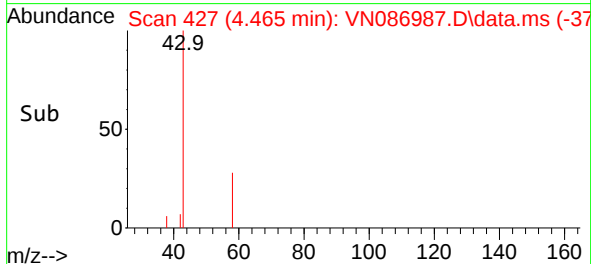
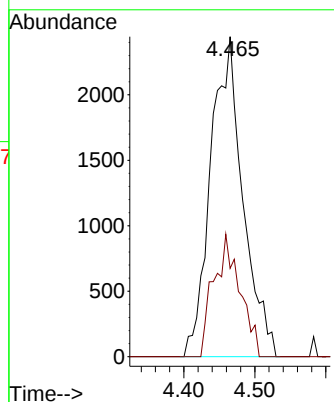
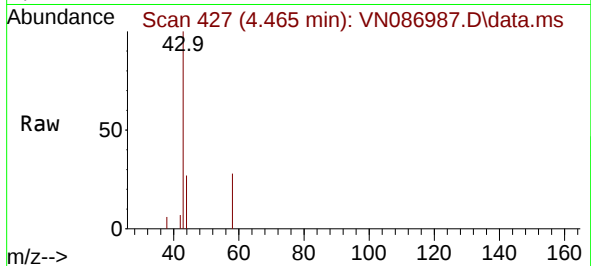




#16
Acetone
Concen: 4.435 ug/l
RT: 4.465 min Scan# 41
Delta R.T. 0.017 min
Lab File: VN086987.D
Acq: 12 Jun 2025 18:56

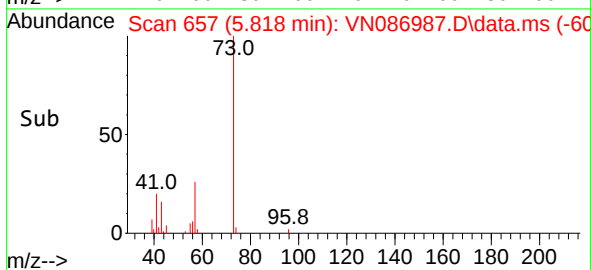
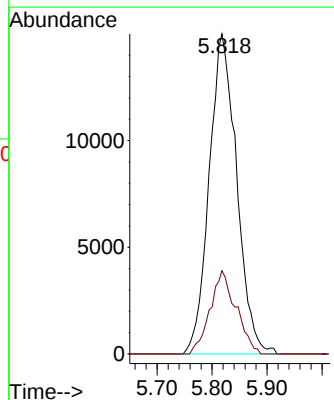
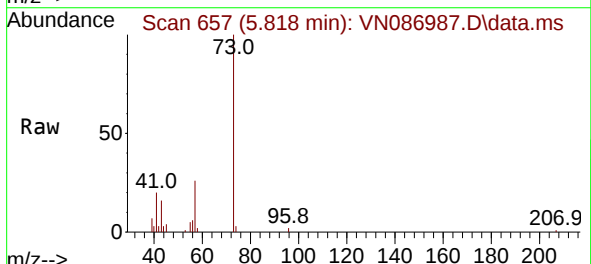
Instrument :
MSVOA_N
ClientSampleId :
MW-5-20250605

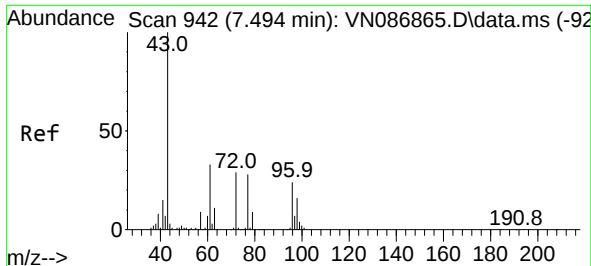
Tgt Ion: 43 Resp: 7697
Ion Ratio Lower Upper
43 100
58 27.6 28.0 42.0#



#19
Methyl tert-butyl Ether
Concen: 5.292 ug/l
RT: 5.818 min Scan# 657
Delta R.T. 0.006 min
Lab File: VN086987.D
Acq: 12 Jun 2025 18:56

Tgt Ion: 73 Resp: 52132
Ion Ratio Lower Upper
73 100
57 26.0 17.4 26.2

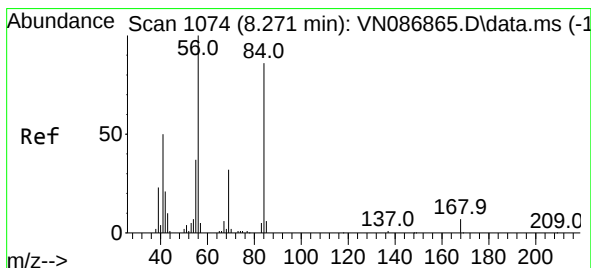
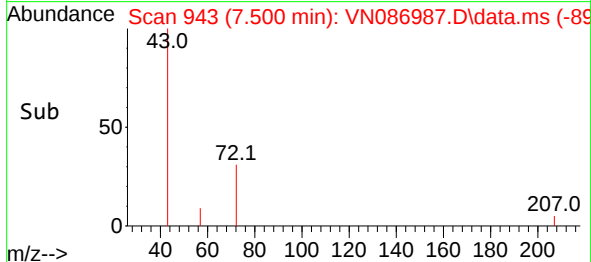
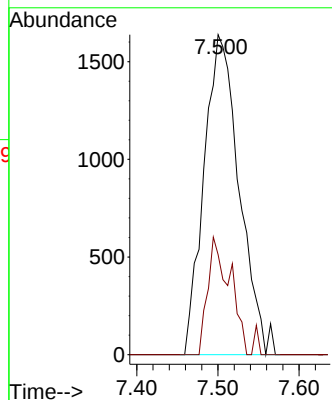
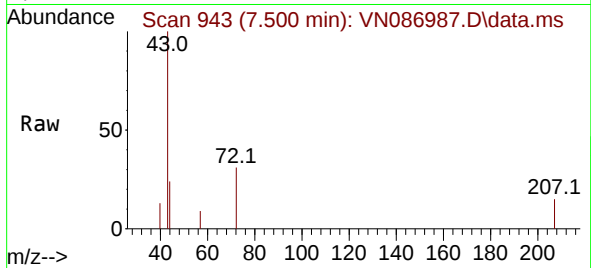




#25
2-Butanone
Concen: 1.751 ug/l
RT: 7.500 min Scan# 94
Delta R.T. 0.006 min
Lab File: VN086987.D
Acq: 12 Jun 2025 18:56

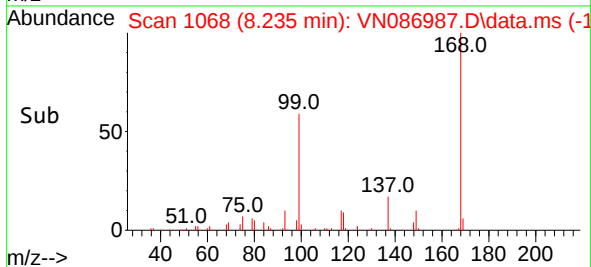
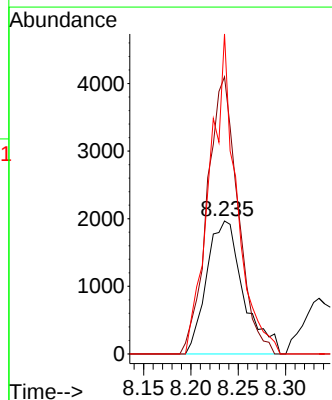
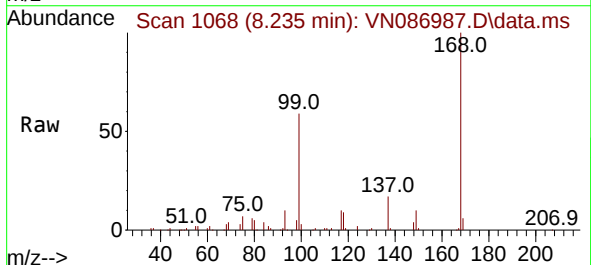
Instrument :
MSVOA_N
ClientSampleId :
MW-5-20250605

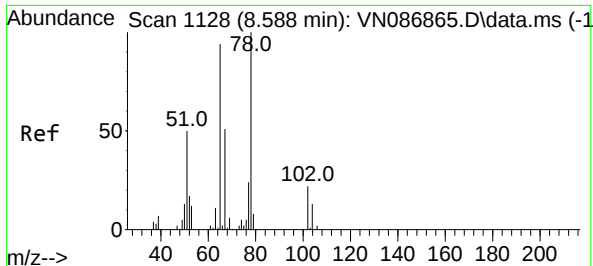
Tgt Ion: 43 Resp: 4941
Ion Ratio Lower Upper
43 100
72 31.3 23.0 34.6



#31
Cyclohexane
Concen: 1.000 ug/l
RT: 8.235 min Scan# 1068
Delta R.T. -0.035 min
Lab File: VN086987.D
Acq: 12 Jun 2025 18:56

Tgt Ion: 56 Resp: 5307
Ion Ratio Lower Upper
56 100
69 208.4 25.4 38.0#
84 240.6 68.8 103.2#





#33

1,2-Dichloroethane-d4

Concen: 54.404 ug/l

RT: 8.588 min Scan# 1128

Delta R.T. -0.000 min

Lab File: VN086987.D

Acq: 12 Jun 2025 18:56

Instrument :

MSVOA_N

ClientSampleId :

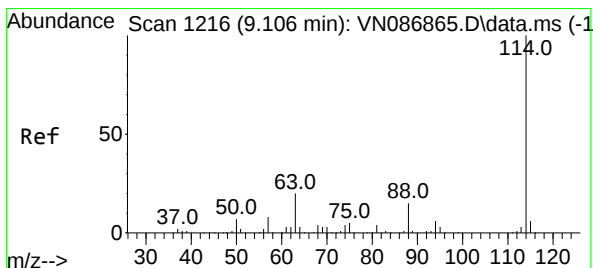
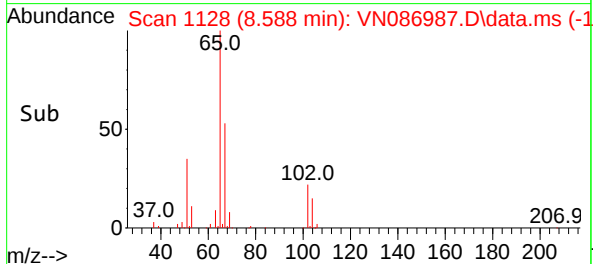
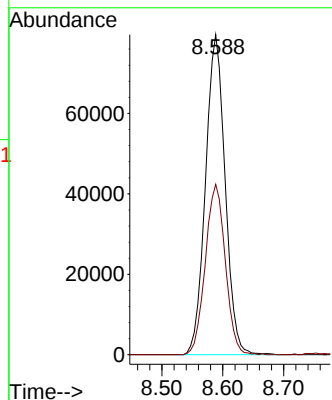
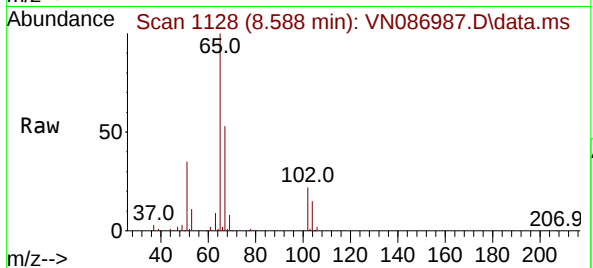
MW-5-20250605

Tgt Ion: 65 Resp: 178049

Ion Ratio Lower Upper

65 100

67 54.2 0.0 105.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 1216

Delta R.T. -0.000 min

Lab File: VN086987.D

Acq: 12 Jun 2025 18:56

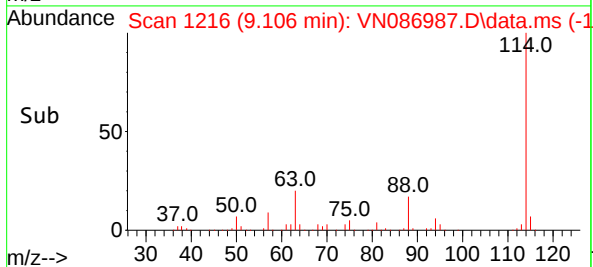
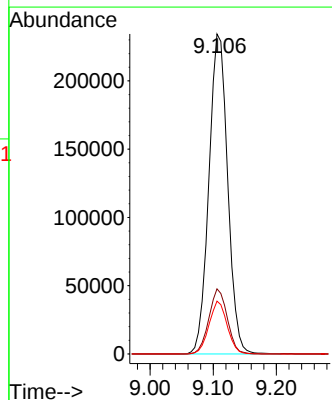
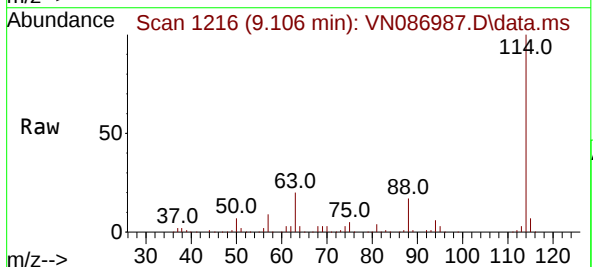
Tgt Ion: 114 Resp: 483373

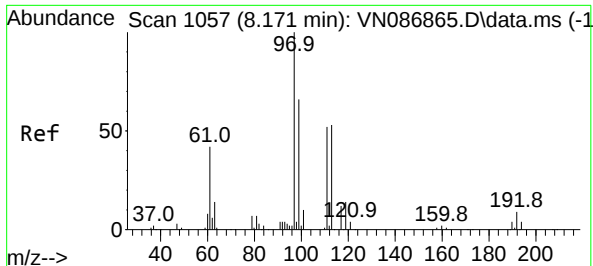
Ion Ratio Lower Upper

114 100

63 20.4 0.0 39.6

88 16.5 0.0 30.2

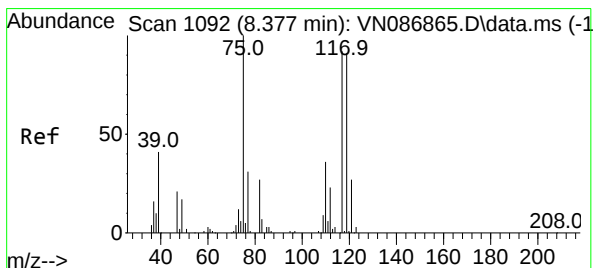
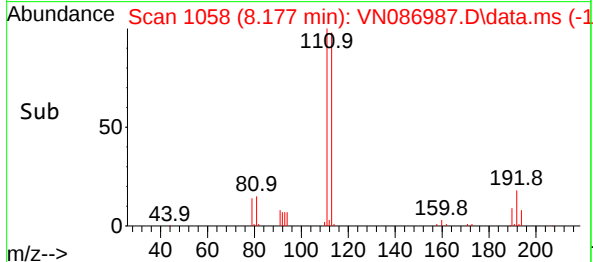
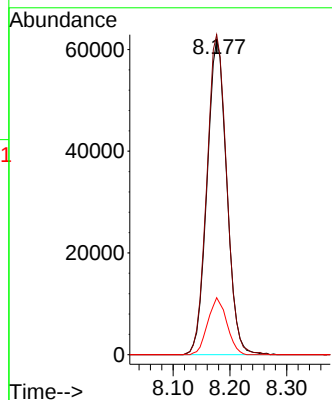
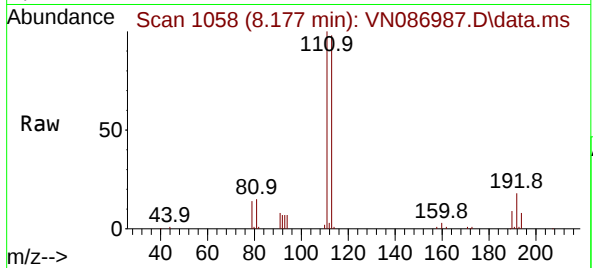




#35
Dibromofluoromethane
Concen: 52.025 ug/l
RT: 8.177 min Scan# 1057
Delta R.T. 0.006 min
Lab File: VN086987.D
Acq: 12 Jun 2025 18:56

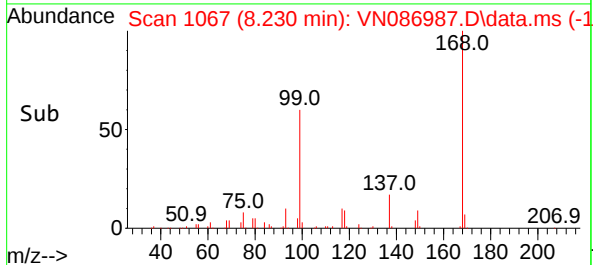
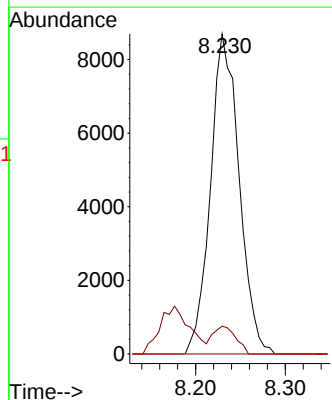
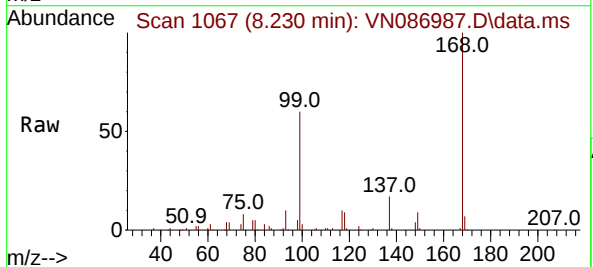
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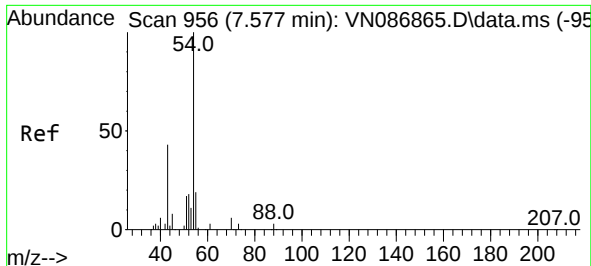
Tgt Ion:113 Resp: 149029
Ion Ratio Lower Upper
113 100
111 102.4 84.2 126.2
192 17.5 14.2 21.4



#36
1,1-Dichloropropene
Concen: 4.511 ug/l
RT: 8.230 min Scan# 1067
Delta R.T. -0.147 min
Lab File: VN086987.D
Acq: 12 Jun 2025 18:56

Tgt Ion: 75 Resp: 19257
Ion Ratio Lower Upper
75 100
110 7.0 17.6 52.9#
77 0.0 25.3 37.9#





#37

Ethyl Acetate

Concen: 0.909 ug/l

RT: 7.500 min Scan# 943

Delta R.T. -0.077 min

Lab File: VN086987.D

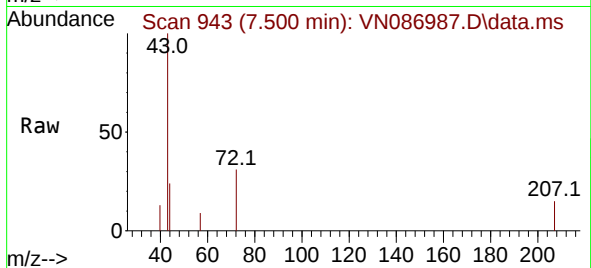
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Instrument :

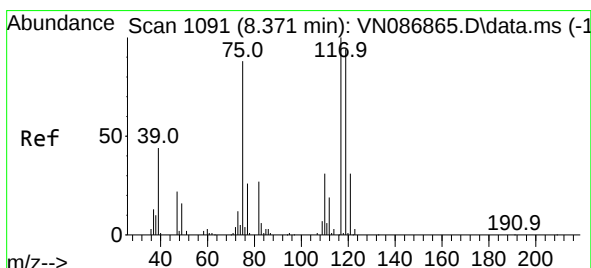
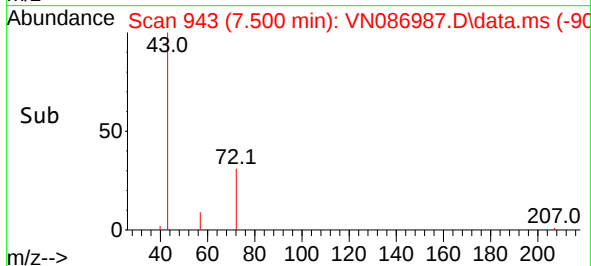
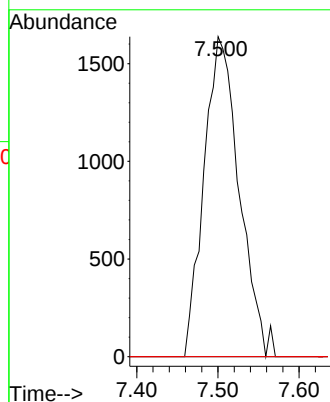
MSVOA_N

ClientSampleId :

MW-5-20250605



Tgt Ion:	43	Resp:	4941
Ion	Ratio	Lower	Upper
43	100		
61	0.0	12.1	18.1#
70	0.0	9.8	14.6#



#38

Carbon Tetrachloride

Concen: 5.733 ug/l

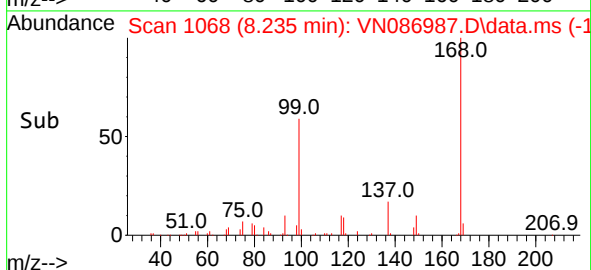
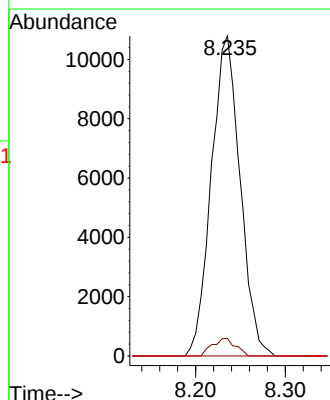
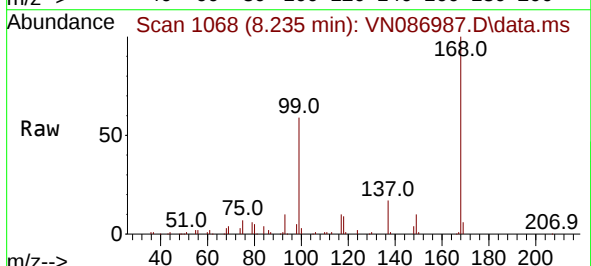
RT: 8.235 min Scan# 1068

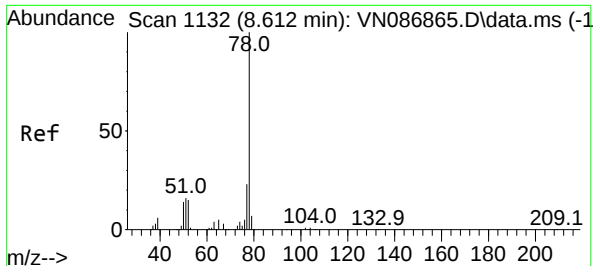
Delta R.T. -0.135 min

Lab File: VN086987.D

Acq: 12 Jun 2025 18:56

Tgt Ion:	117	Resp:	24025
Ion	Ratio	Lower	Upper
117	100		
119	5.5	75.0	112.6#
121	0.0	24.9	37.3#

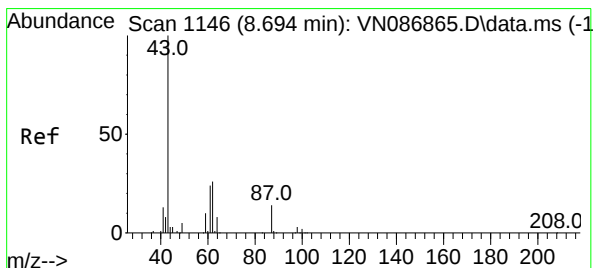
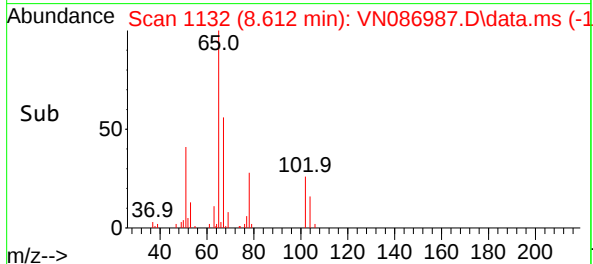
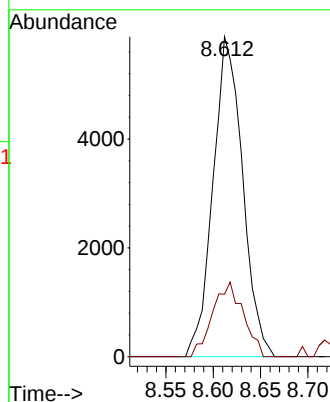
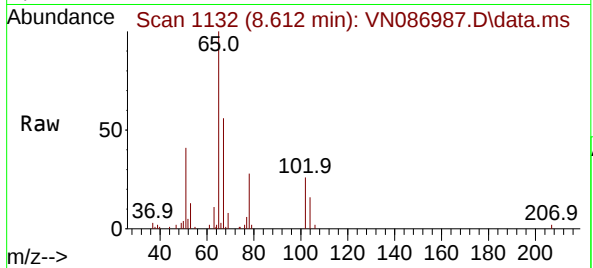




#40
Benzene
Concen: 0.916 ug/l
RT: 8.612 min Scan# 1132
Delta R.T. -0.000 min
Lab File: VN086987.D
Acq: 12 Jun 2025 18:56

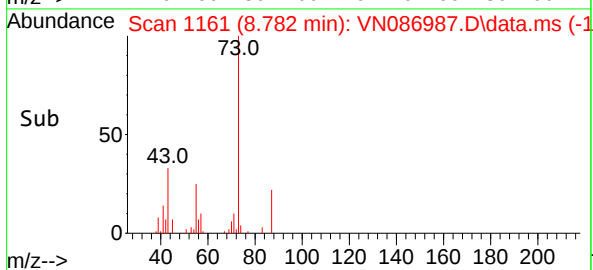
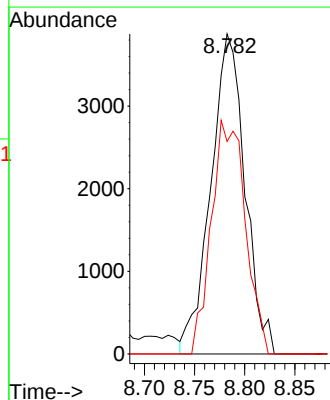
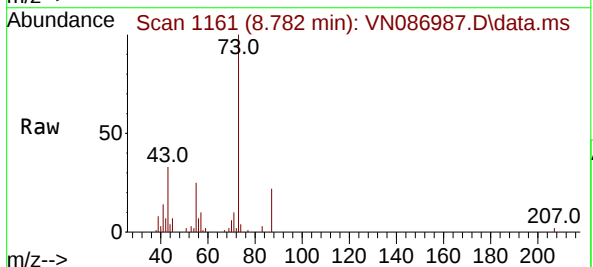
Instrument :
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MW-5-20250605

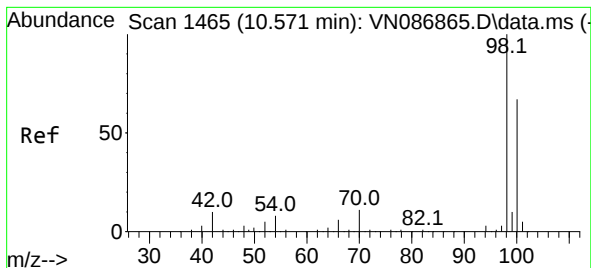
Tgt Ion: 78 Resp: 12784
Ion Ratio Lower Upper
78 100
77 19.5 18.7 28.1



#43
Isopropyl Acetate
Concen: 1.051 ug/l
RT: 8.782 min Scan# 1161
Delta R.T. 0.088 min
Lab File: VN086987.D
Acq: 12 Jun 2025 18:56

Tgt Ion: 43 Resp: 9163
Ion Ratio Lower Upper
43 100
61 0.0 22.1 33.1#
87 72.4 11.8 17.6#

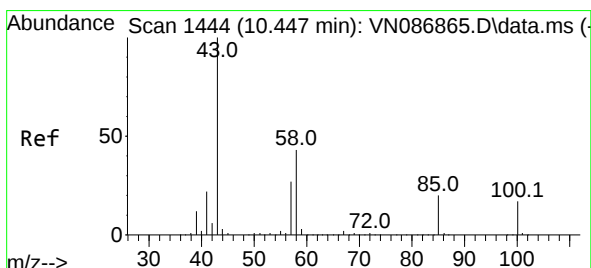
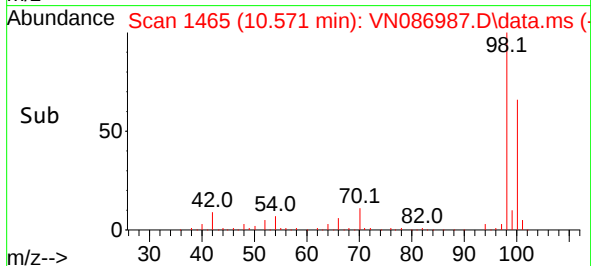
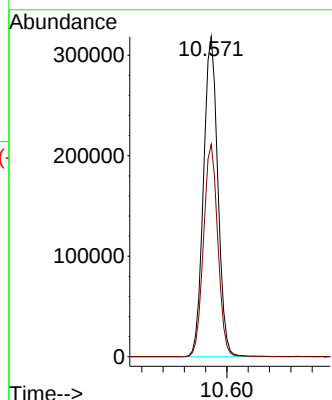
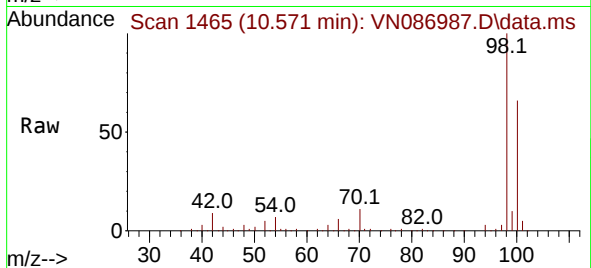




#50
Toluene-d8
Concen: 52.355 ug/l
RT: 10.571 min Scan# 1465
Delta R.T. -0.000 min
Lab File: VN086987.D
Acq: 12 Jun 2025 18:56

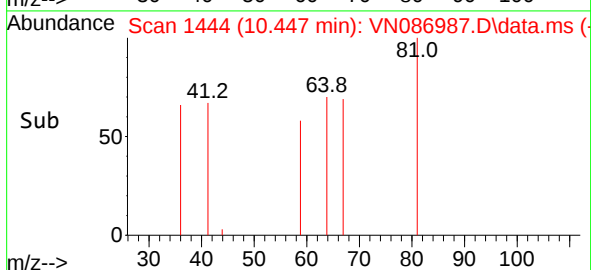
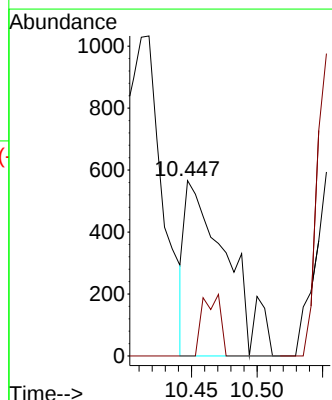
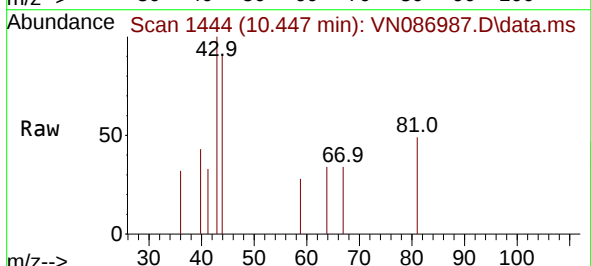
Instrument :
MSVOA_N
ClientSampleId :
MW-5-20250605

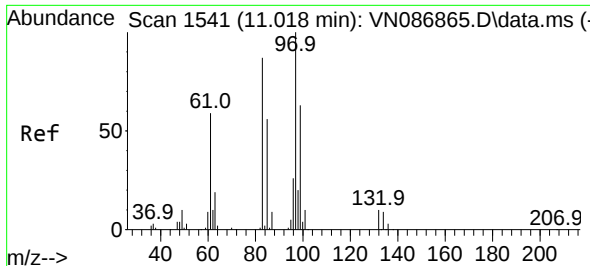
Tgt Ion: 98 Resp: 593715
Ion Ratio Lower Upper
98 100
100 66.2 53.4 80.0



#51
4-Methyl-2-Pentanone
Concen: 0.240 ug/l
RT: 10.447 min Scan# 1444
Delta R.T. -0.000 min
Lab File: VN086987.D
Acq: 12 Jun 2025 18:56

Tgt Ion: 43 Resp: 1258
Ion Ratio Lower Upper
43 100
58 0.0 34.2 51.4#

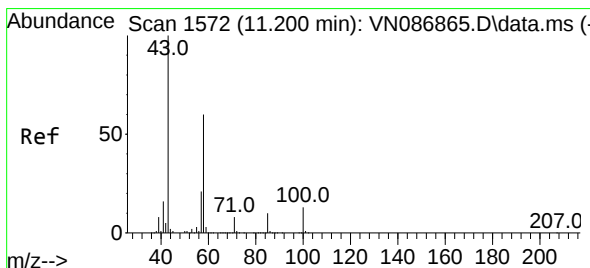
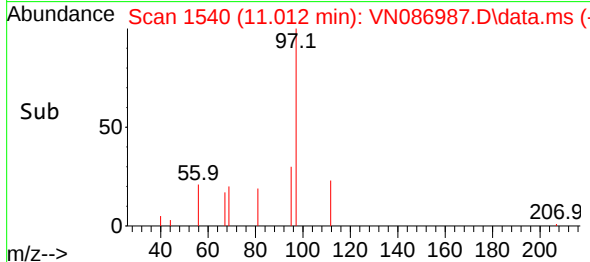
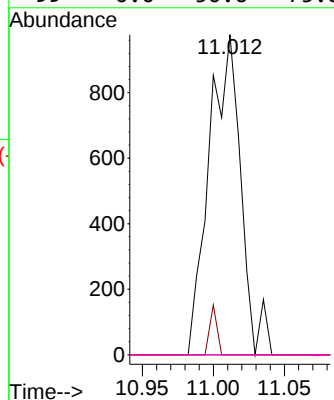
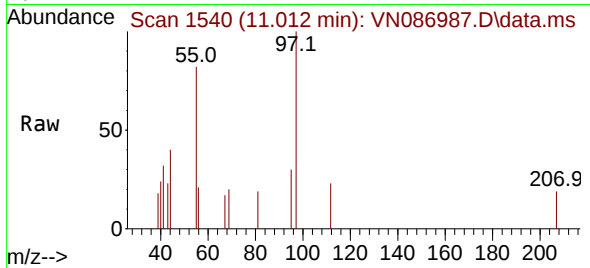




#55
1,1,2-Trichloroethane
Concen: 0.462 ug/l
RT: 11.012 min Scan# 1540
Delta R.T. -0.006 min
Lab File: VN086987.D
Acq: 12 Jun 2025 18:56

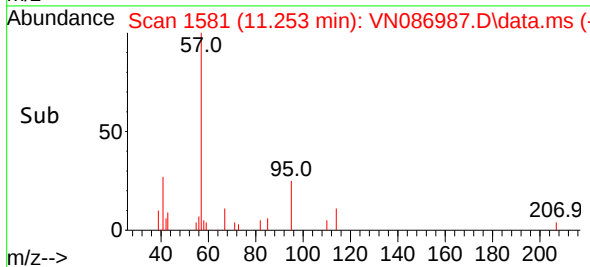
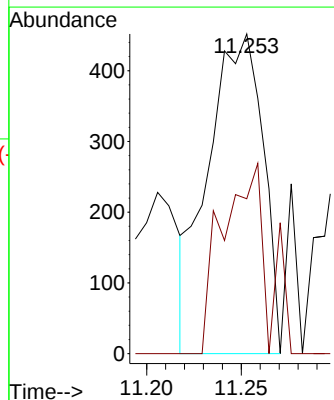
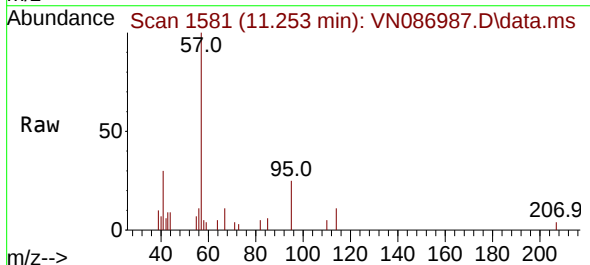
Instrument :
MSVOA_N
ClientSampleId :
MW-5-20250605

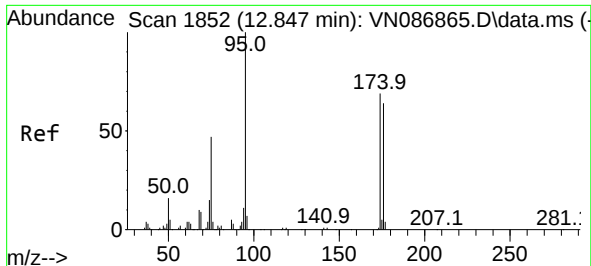
Tgt Ion:	97	Resp:	1518
Ion	Ratio	Lower	Upper
97	100		
83	0.0	69.7	104.5#
85	0.0	45.1	67.7#
99	0.0	50.6	75.8#



#59
2-Hexanone
Concen: 0.268 ug/l
RT: 11.253 min Scan# 1581
Delta R.T. 0.053 min
Lab File: VN086987.D
Acq: 12 Jun 2025 18:56

Tgt Ion:	43	Resp:	908
Ion	Ratio	Lower	Upper
43	100		
58	49.0	30.4	91.3

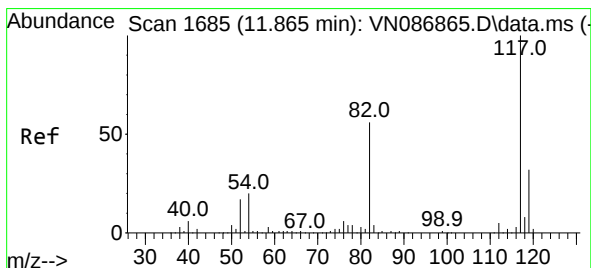
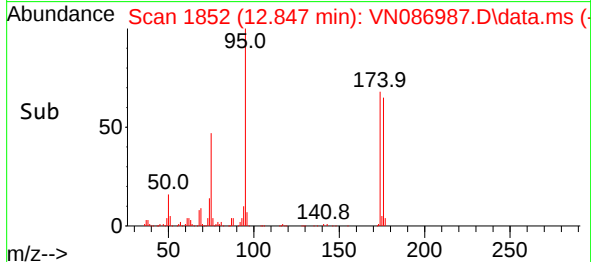
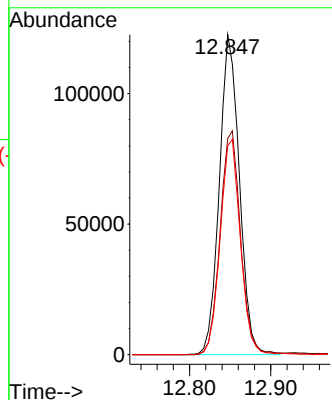
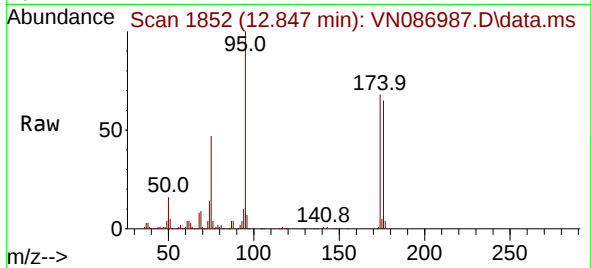




#62
4-Bromofluorobenzene
Concen: 49.973 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN086987.D
Acq: 12 Jun 2025 18:56

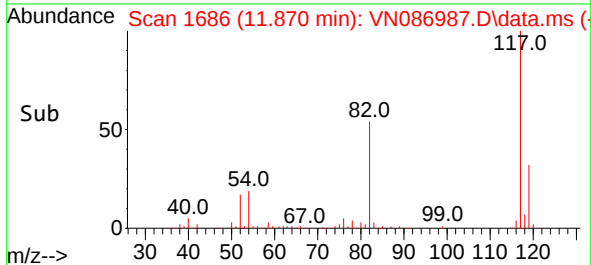
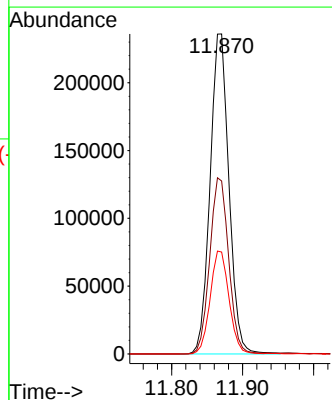
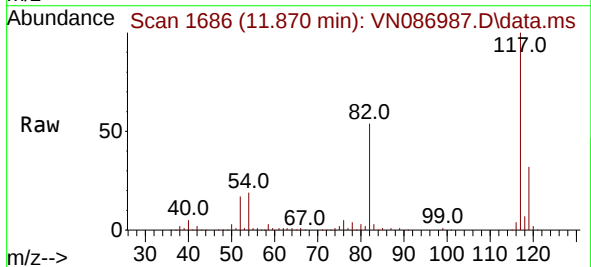
Instrument :
MSVOA_N
ClientSampleId :
MW-5-20250605

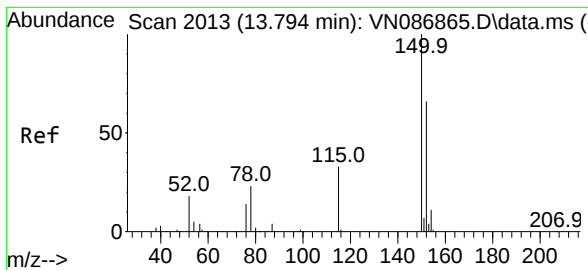
Tgt Ion: 95 Resp: 210546
Ion Ratio Lower Upper
95 100
174 71.9 0.0 141.8
176 68.2 0.0 132.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.870 min Scan# 1686
Delta R.T. 0.006 min
Lab File: VN086987.D
Acq: 12 Jun 2025 18:56

Tgt Ion: 117 Resp: 434597
Ion Ratio Lower Upper
117 100
82 54.0 44.6 67.0
119 31.8 25.5 38.3

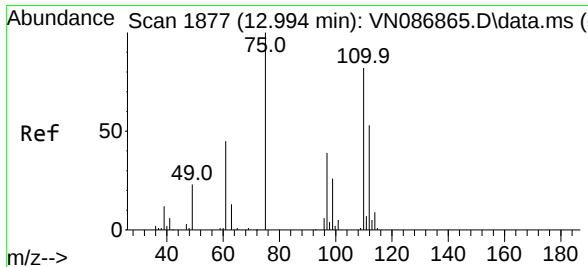
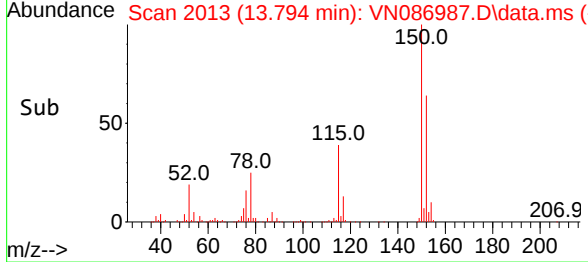
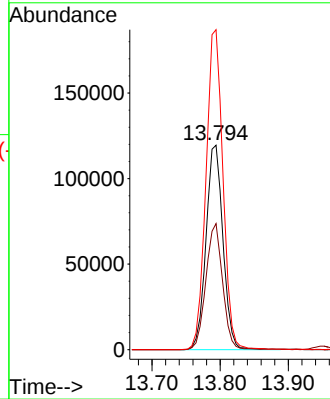
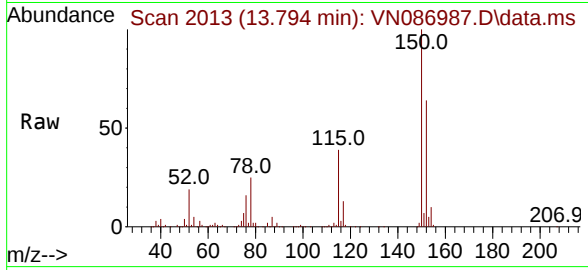




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.794 min Scan# 2013
 Delta R.T. -0.000 min
 Lab File: VN086987.D
 Acq: 12 Jun 2025 18:56

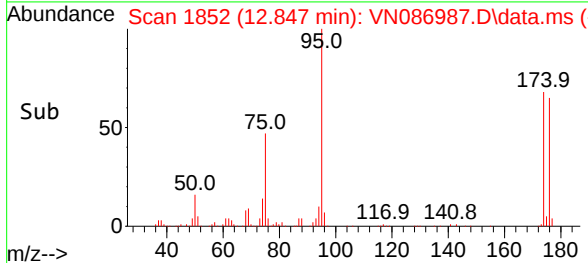
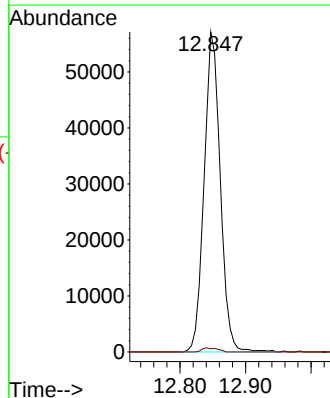
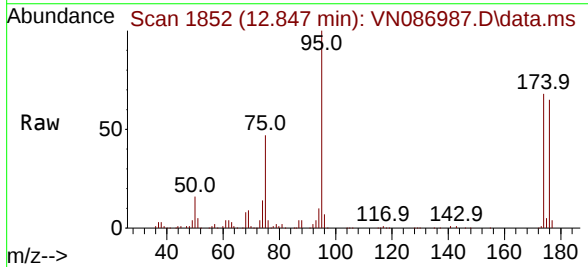
Instrument :
 MSVOA_N
 ClientSampleId :
 MW-5-20250605

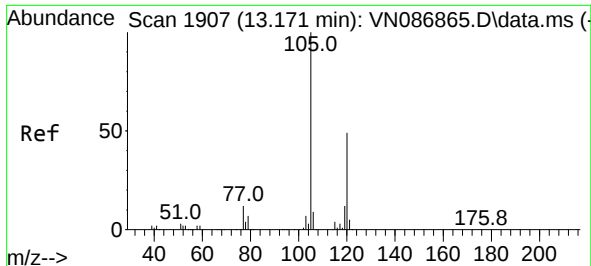
Tgt Ion:152 Resp: 206986
 Ion Ratio Lower Upper
 152 100
 115 60.7 30.1 90.5
 150 156.6 0.0 345.0



#76
 1,2,3-Trichloropropane
 Concen: 19.961 ug/l
 RT: 12.847 min Scan# 1852
 Delta R.T. -0.147 min
 Lab File: VN086987.D
 Acq: 12 Jun 2025 18:56

Tgt Ion: 75 Resp: 98213
 Ion Ratio Lower Upper
 75 100
 77 1.2 79.3 237.9#

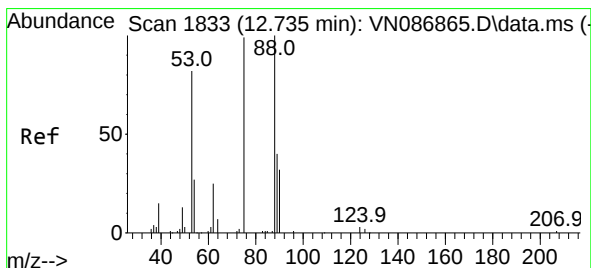
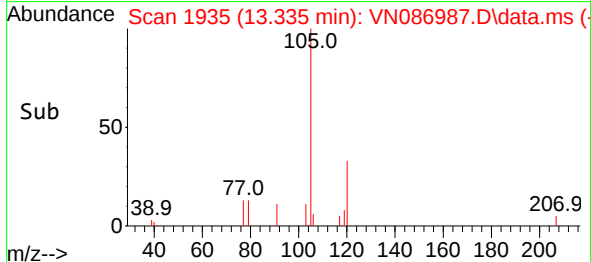
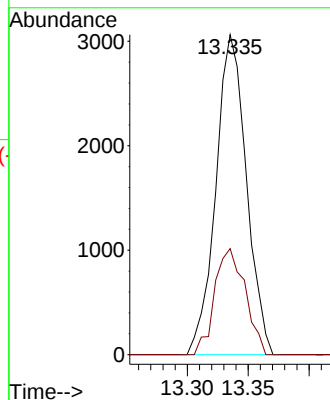
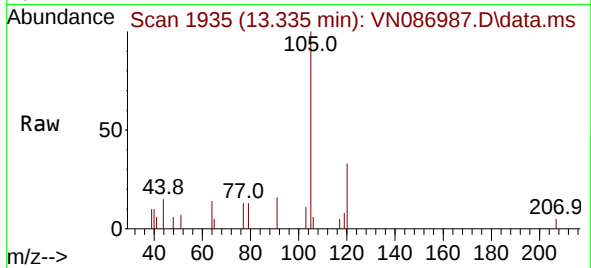




#80
 1,3,5-Trimethylbenzene
 Concen: 0.430 ug/l
 RT: 13.335 min Scan# 1907
 Delta R.T. 0.165 min
 Lab File: VN086987.D
 Acq: 12 Jun 2025 18:56

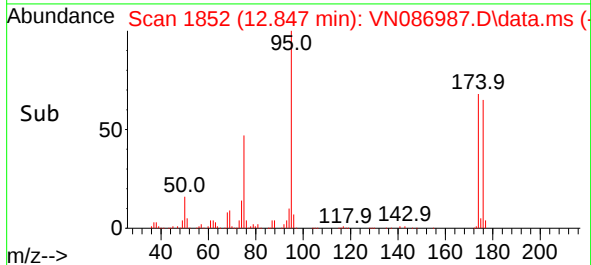
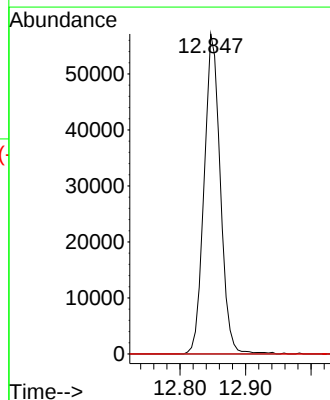
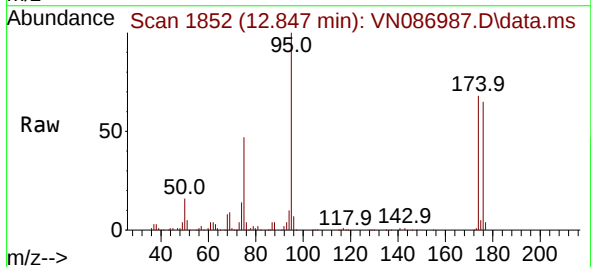
Instrument :
 MSVOA_N
 ClientSampleId :
 MW-5-20250605

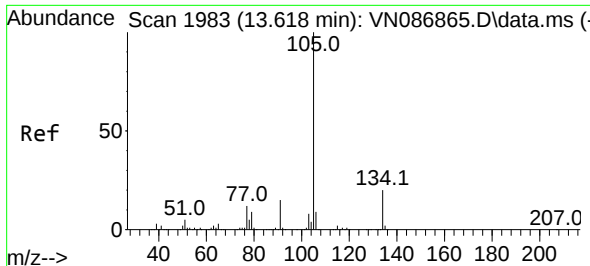
Tgt Ion:105 Resp: 5350
 Ion Ratio Lower Upper
 105 100
 120 33.0 24.9 74.6



#81
 trans-1,4-Dichloro-2-butene
 Concen: 45.950 ug/l
 RT: 12.847 min Scan# 1852
 Delta R.T. 0.112 min
 Lab File: VN086987.D
 Acq: 12 Jun 2025 18:56

Tgt Ion: 75 Resp: 98213
 Ion Ratio Lower Upper
 75 100
 53 0.0 66.6 99.8#
 89 0.0 36.7 55.1#

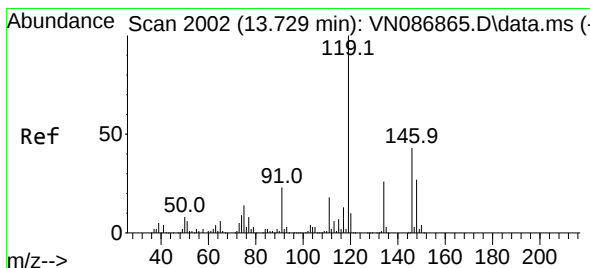
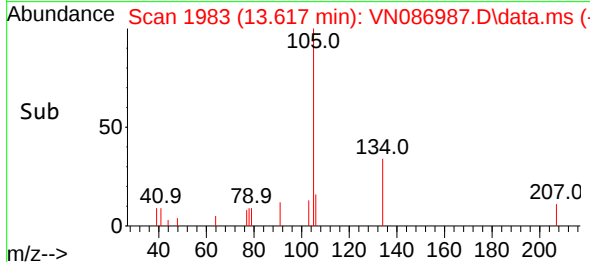
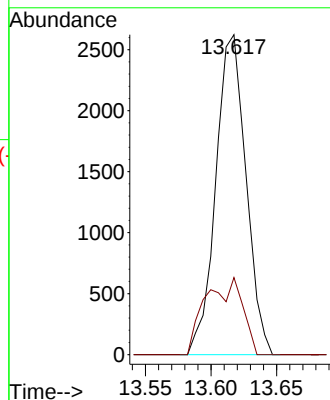
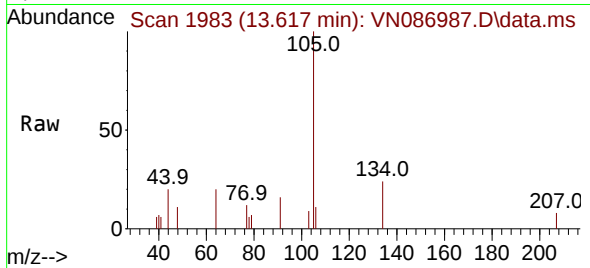




#85
 sec-Butylbenzene
 Concen: 0.254 ug/l
 RT: 13.617 min Scan# 1983
 Delta R.T. -0.000 min
 Lab File: VN086987.D
 Acq: 12 Jun 2025 18:56

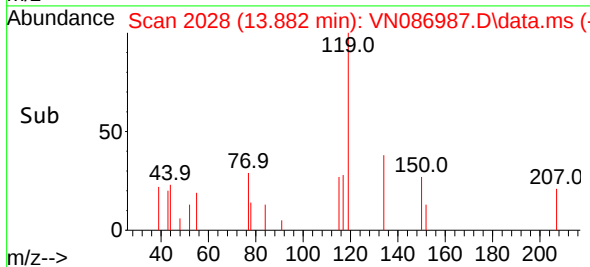
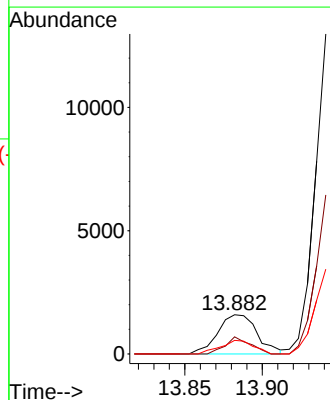
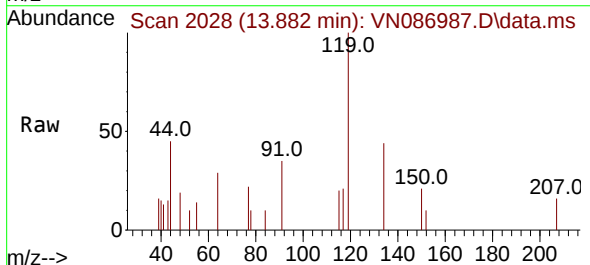
Instrument :
 MSVOA_N
 ClientSampleId :
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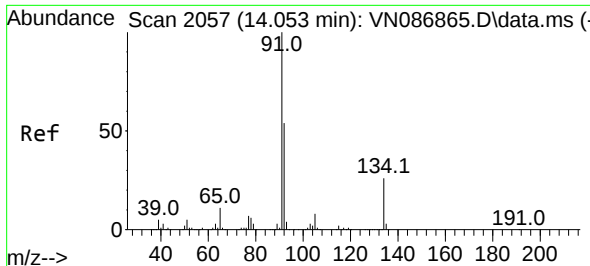
Tgt Ion:105 Resp: 4201
 Ion Ratio Lower Upper
 105 100
 134 29.3 10.0 30.0



#86
 p-Isopropyltoluene
 Concen: 0.204 ug/l
 RT: 13.882 min Scan# 2028
 Delta R.T. 0.153 min
 Lab File: VN086987.D
 Acq: 12 Jun 2025 18:56

Tgt Ion:119 Resp: 2793
 Ion Ratio Lower Upper
 119 100
 134 28.0 13.5 40.4
 91 29.1 11.5 34.4

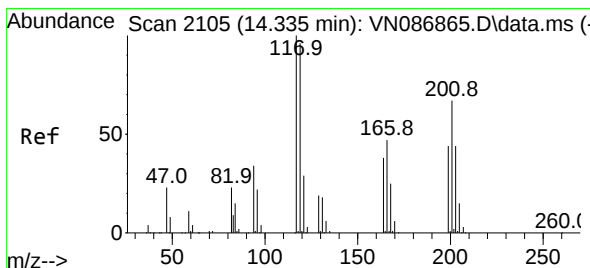
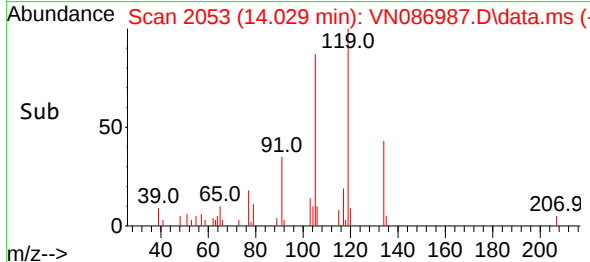
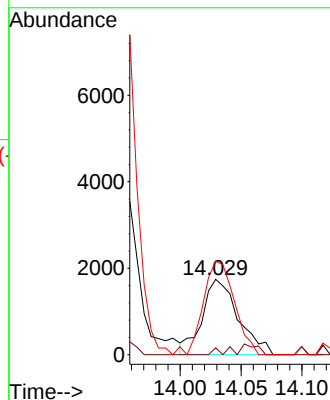
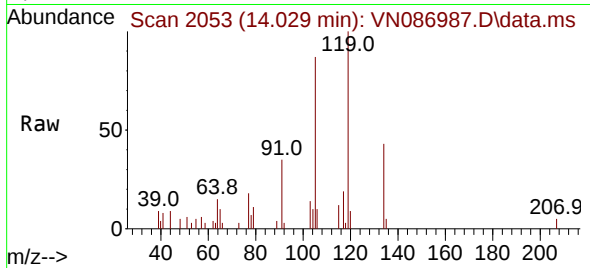




#89
n-Butylbenzene
Concen: 0.270 ug/l
RT: 14.029 min Scan# 2053
Delta R.T. -0.024 min
Lab File: VN086987.D
Acq: 12 Jun 2025 18:56

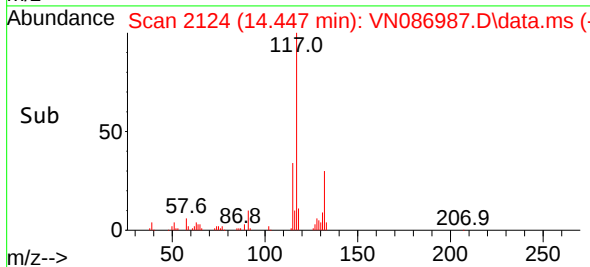
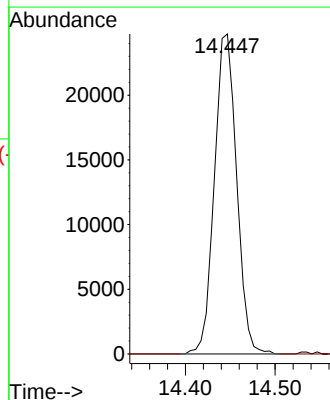
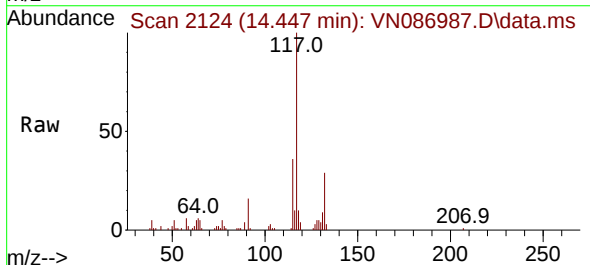
Instrument :
MSVOA_N
ClientSampleId :
MW-5-20250605

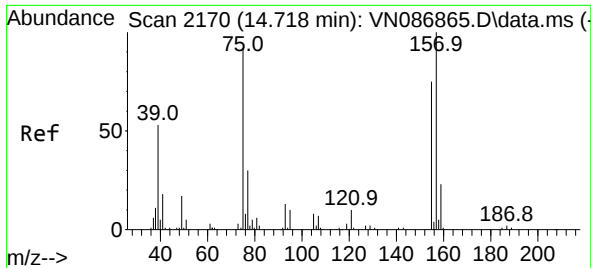
Tgt Ion: 91 Resp: 3584
Ion Ratio Lower Upper
91 100
92 1.6 27.5 82.4#
134 107.8 13.0 39.0#



#90
Hexachloroethane
Concen: 18.362 ug/l
RT: 14.447 min Scan# 2124
Delta R.T. 0.112 min
Lab File: VN086987.D
Acq: 12 Jun 2025 18:56

Tgt Ion: 117 Resp: 42580
Ion Ratio Lower Upper
117 100
201 0.0 33.2 99.6#





#92

1,2-Dibromo-3-Chloropropane

Concen: 0.519 ug/l

RT: 14.441 min Scan# 21

Delta R.T. -0.277 min

Lab File: VN086987.D

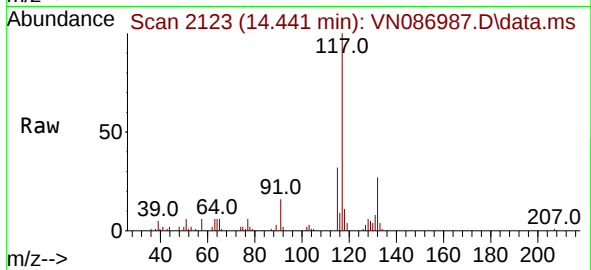
Acq: 12 Jun 2025 18:56

Instrument :

MSVOA_N

ClientSampleId :

MW-5-20250605



Tgt Ion: 75 Resp: 634

Ion Ratio Lower Upper

75 100

155 0.0 41.1 123.4#

157 0.0 52.7 158.1#

