

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN081225\
 Data File : VN087514.D
 Acq On : 12 Aug 2025 15:07
 Operator : JC\MD
 Sample : Q2816-06
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 1058-MW-11(15)

Quant Time: Aug 13 03:05:49 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N071625W.M
 Quant Title : SW846 8260
 QLast Update : Thu Jul 17 02:56:13 2025
 Response via : Initial Calibration

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

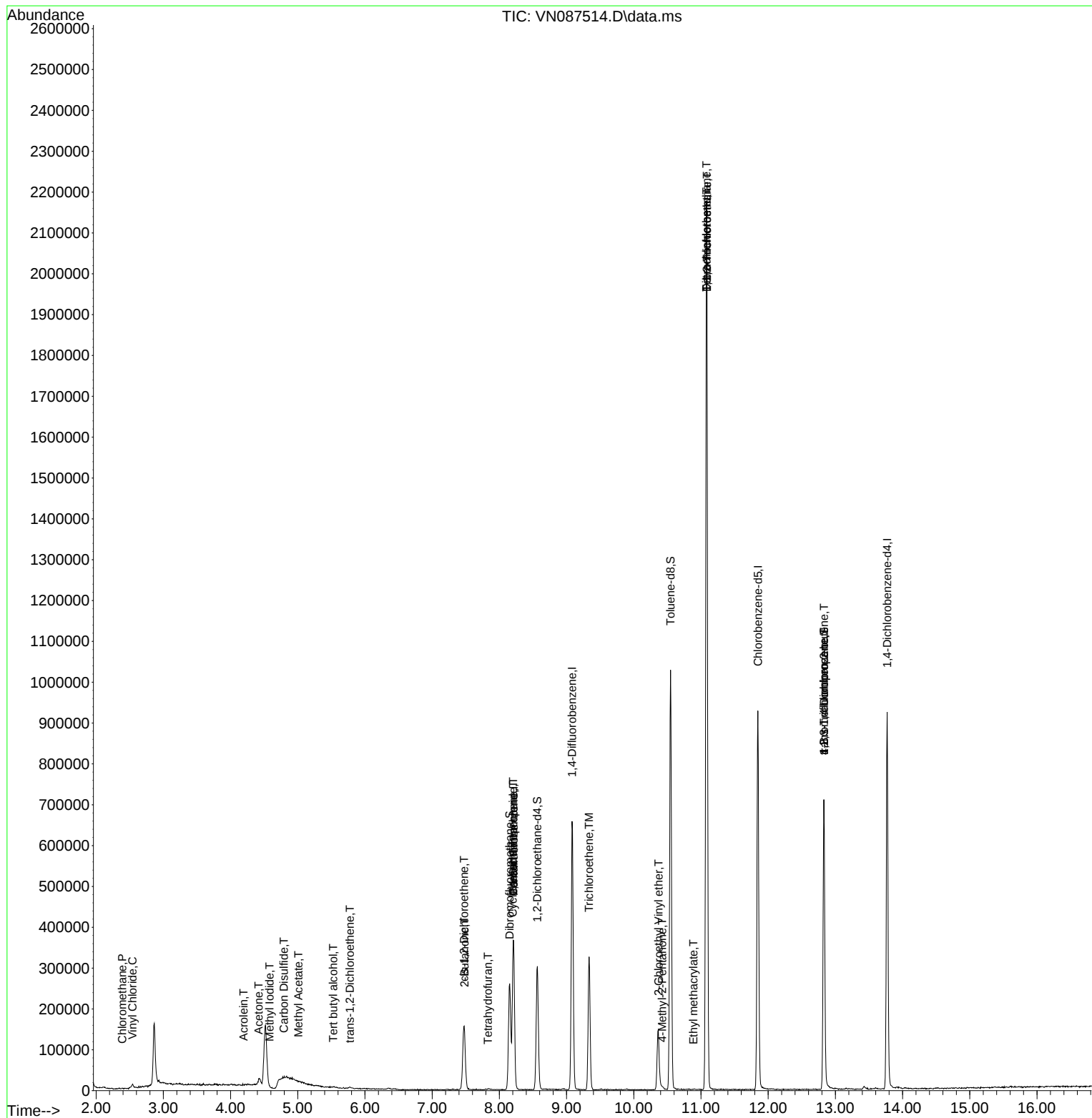
Internal Standards						
1) Pentafluorobenzene	8.212	168	245218	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.082	114	533590	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.847	117	497794	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.770	152	234425	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.565	65	255216	61.338	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	= 122.680%	
35) Dibromofluoromethane	8.153	113	183717	49.914	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 99.820%	
50) Toluene-d8	10.547	98	685529	52.213	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	= 104.420%	
62) 4-Bromofluorobenzene	12.829	95	253983	52.360	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	= 104.720%	
Target Compounds						
					Qvalue	
3) Chloromethane	2.389	50	1146	0.350	ug/l #	86
4) Vinyl Chloride	2.542	62	6862	2.108	ug/l	96
10) Methyl Iodide	4.583	142	223	5.709	ug/l #	84
11) Tert butyl alcohol	5.530	59	1763	2.232	ug/l	96
13) Acrolein	4.195	56	486	0.767	ug/l #	37
16) Acetone	4.418	43	33399	17.120	ug/l	99
17) Carbon Disulfide	4.795	76	122329	14.737	ug/l	95
18) Methyl Acetate	5.012	43	1724	0.352	ug/l #	62
20) Methylene Chloride	5.253	84	310	Below Cal	#	42
21) trans-1,2-Dichloroethene	5.777	96	1745	0.553	ug/l	90
25) 2-Butanone	7.483	43	8824	2.927	ug/l #	82
27) cis-1,2-Dichloroethene	7.477	96	88700	24.405	ug/l	92
29) Tetrahydrofuran	7.830	42	459	0.234	ug/l #	16
31) Cyclohexane	8.200	56	8390	1.640	ug/l #	46
36) 1,1-Dichloropropene	8.206	75	25250	5.192	ug/l #	52
38) Carbon Tetrachloride	8.206	117	28792	5.375	ug/l #	15
44) Trichloroethene	9.335	130	108002	29.082	ug/l	98
51) 4-Methyl-2-Pentanone	10.424	43	3226	0.468	ug/l #	75
55) 1,1,2-Trichloroethane	11.088	97	4693	1.213	ug/l #	11
56) Ethyl methacrylate	10.888	69	59	0.644	ug/l #	1
58) 2-Chloroethyl Vinyl ether	10.371	63	695	0.219	ug/l #	48
60) Dibromochloromethane	11.082	129	464336	105.275	ug/l #	10
64) Tetrachloroethene	11.082	164	457072	142.664	ug/l	96
76) 1,2,3-Trichloropropane	12.829	75	147690	28.095	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.829	75	147690	76.873	ug/l #	8

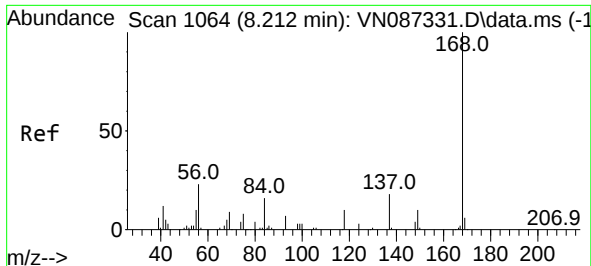
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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1058-MW-11(15)

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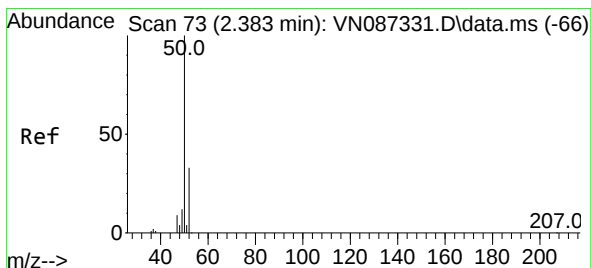
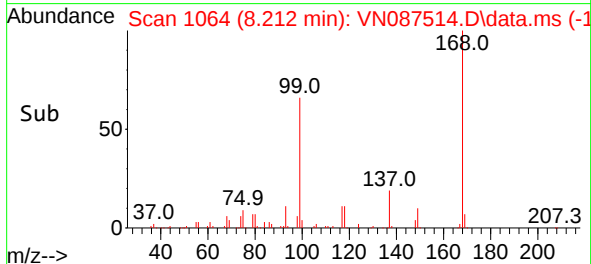
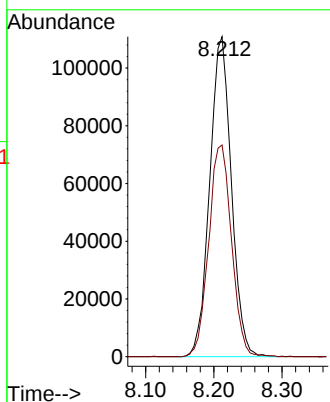
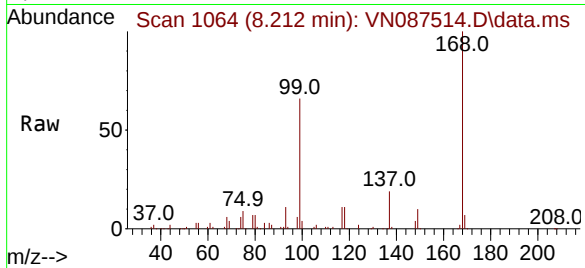




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.212 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087514.D
Acq: 12 Aug 2025 15:07

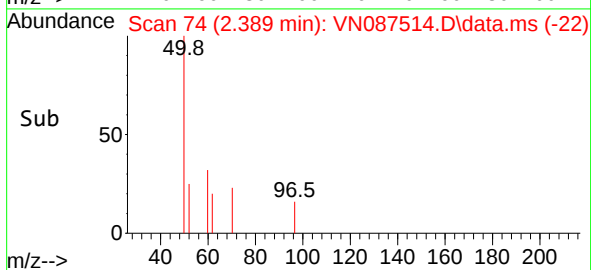
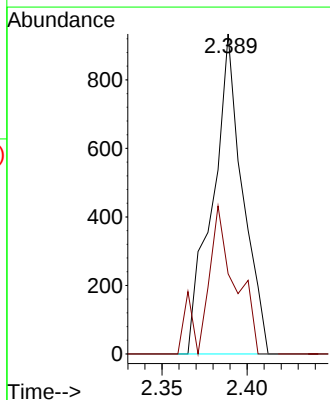
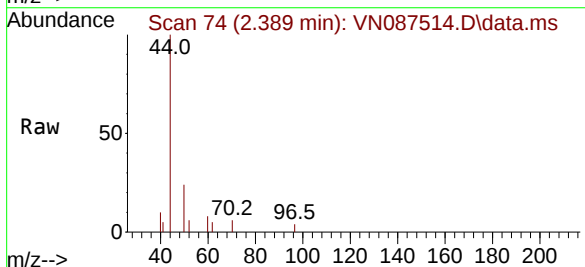
Instrument :
MSVOA_N
ClientSampleId :
1058-MW-11(15)

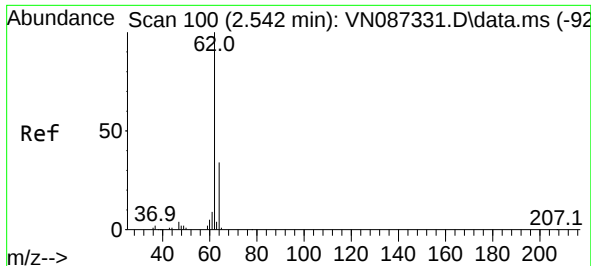
Tgt Ion:168 Resp: 245218
Ion Ratio Lower Upper
168 100
99 66.1 47.9 71.9



#3
Chloromethane
Concen: 0.350 ug/l
RT: 2.389 min Scan# 74
Delta R.T. 0.006 min
Lab File: VN087514.D
Acq: 12 Aug 2025 15:07

Tgt Ion: 50 Resp: 1146
Ion Ratio Lower Upper
50 100
52 25.1 26.3 39.5#

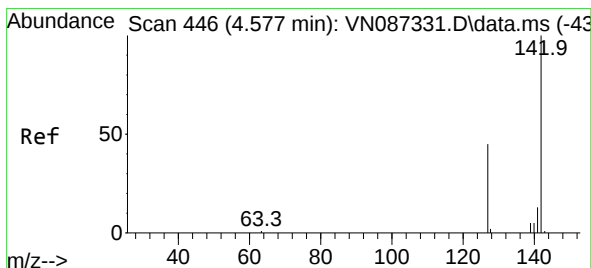
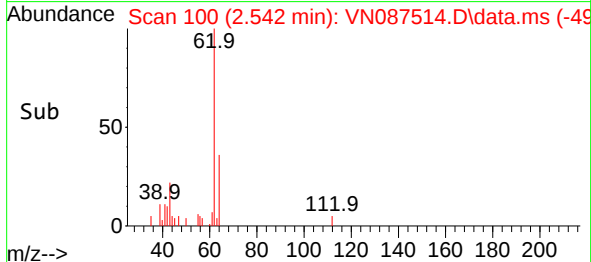
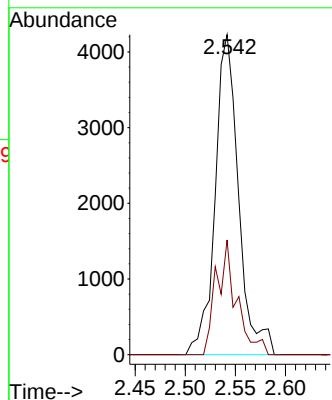
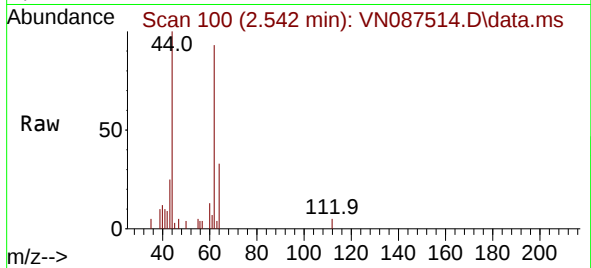




#4
 Vinyl Chloride
 Concen: 2.108 ug/l
 RT: 2.542 min Scan# 100
 Delta R.T. 0.000 min
 Lab File: VN087514.D
 Acq: 12 Aug 2025 15:07

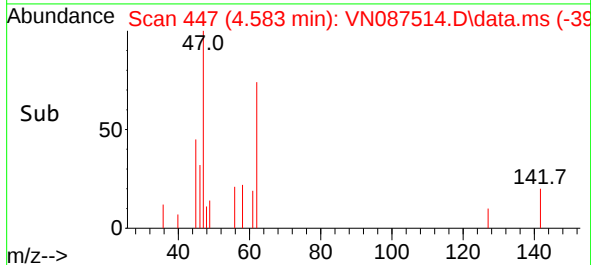
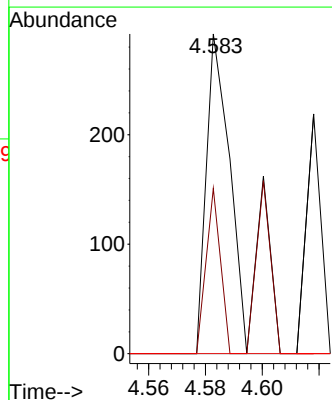
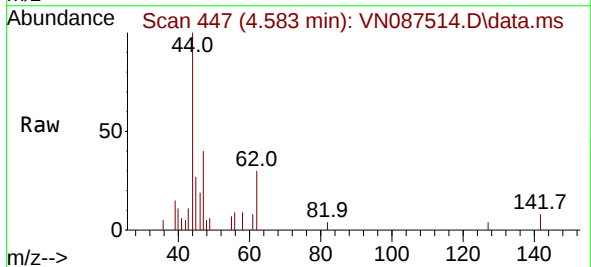
Instrument :
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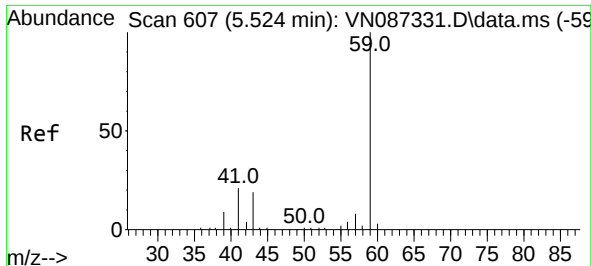
Tgt Ion: 62 Resp: 6862
 Ion Ratio Lower Upper
 62 100
 64 35.8 27.0 40.6



#10
 Methyl Iodide
 Concen: 5.709 ug/l
 RT: 4.583 min Scan# 447
 Delta R.T. 0.006 min
 Lab File: VN087514.D
 Acq: 12 Aug 2025 15:07

Tgt Ion: 142 Resp: 223
 Ion Ratio Lower Upper
 142 100
 127 51.7 35.7 53.5
 141 0.0 10.4 15.6#

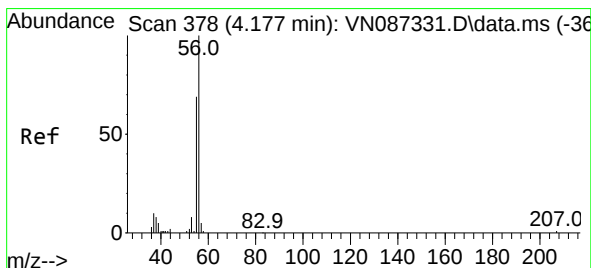
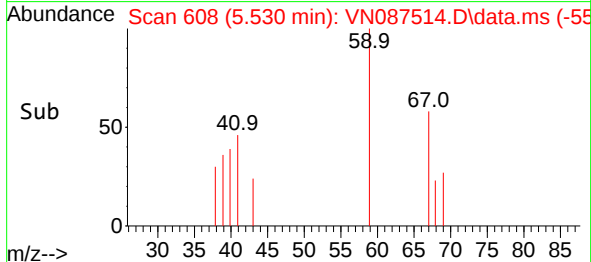
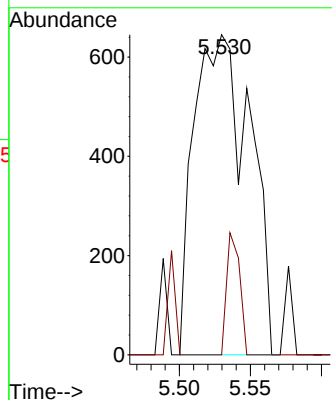
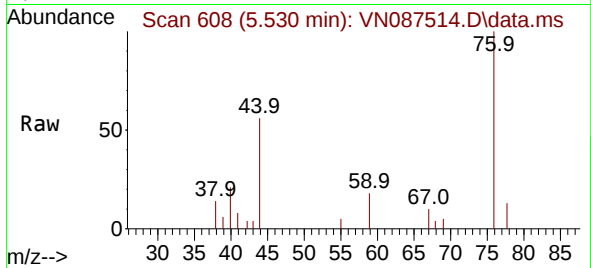




#11
Tert butyl alcohol
Concen: 2.232 ug/l
RT: 5.530 min Scan# 607
Delta R.T. 0.006 min
Lab File: VN087514.D
Acq: 12 Aug 2025 15:07

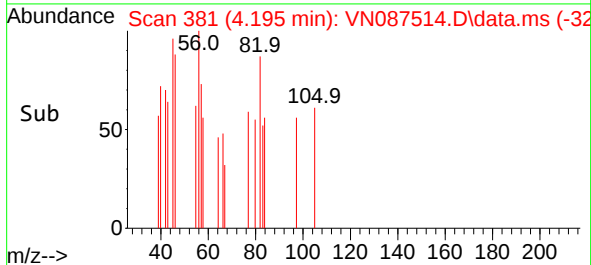
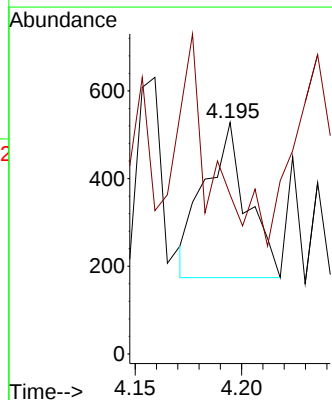
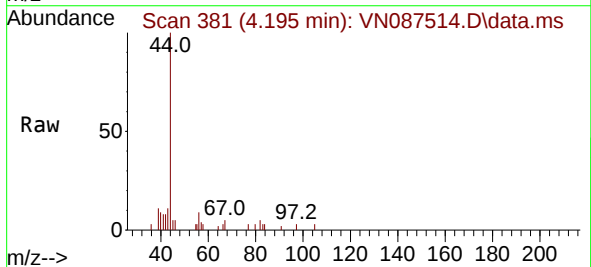
Instrument :
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ClientSampleId :
1058-MW-11(15)

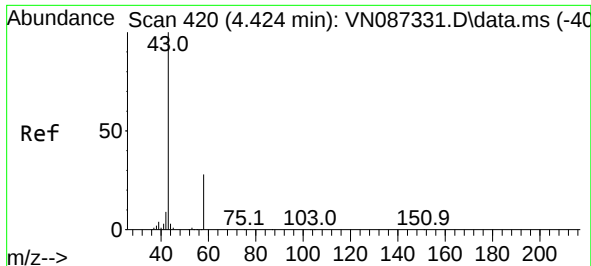
Tgt Ion: 59 Resp: 1763
Ion Ratio Lower Upper
59 100
57 8.8 8.3 12.5



#13
Acrolein
Concen: 0.767 ug/l
RT: 4.195 min Scan# 381
Delta R.T. 0.018 min
Lab File: VN087514.D
Acq: 12 Aug 2025 15:07

Tgt Ion: 56 Resp: 486
Ion Ratio Lower Upper
56 100
55 122.0 56.2 84.4#

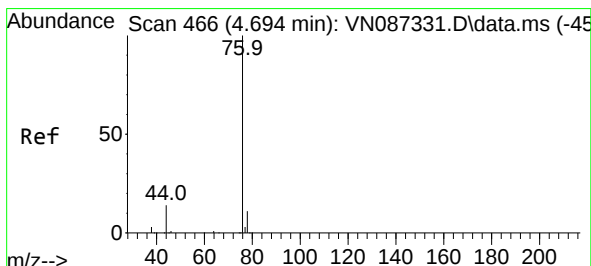
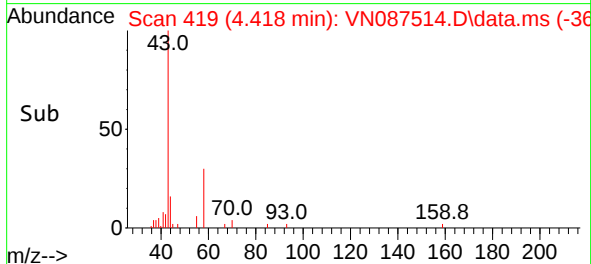
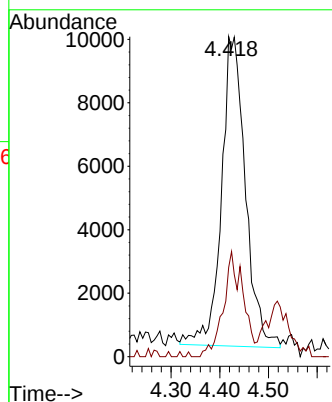
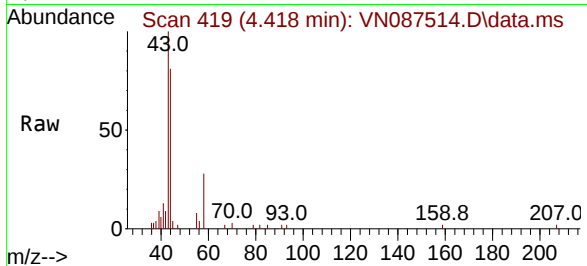




#16
Acetone
Concen: 17.120 ug/l
RT: 4.418 min Scan# 418
Delta R.T. -0.006 min
Lab File: VN087514.D
Acq: 12 Aug 2025 15:07

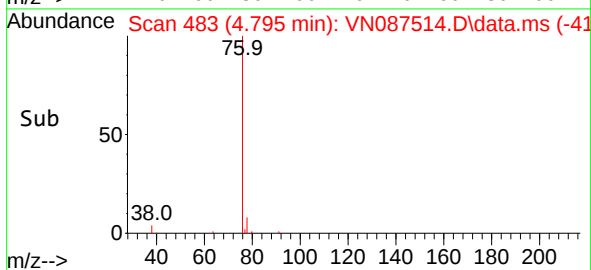
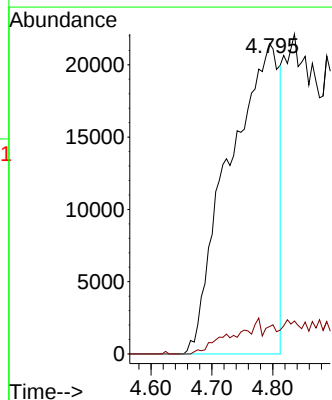
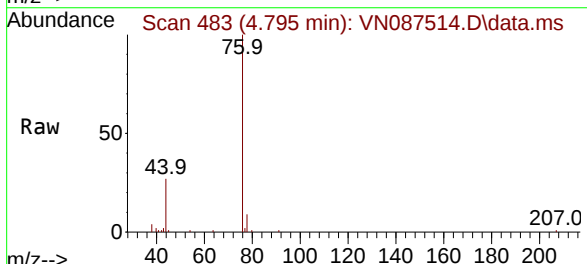
Instrument :
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1058-MW-11(15)

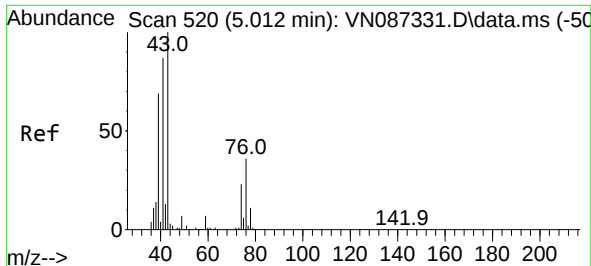
Tgt Ion: 43 Resp: 33399
Ion Ratio Lower Upper
43 100
58 27.3 22.3 33.5



#17
Carbon Disulfide
Concen: 14.737 ug/l
RT: 4.795 min Scan# 483
Delta R.T. 0.101 min
Lab File: VN087514.D
Acq: 12 Aug 2025 15:07

Tgt Ion: 76 Resp: 122329
Ion Ratio Lower Upper
76 100
78 8.8 8.6 13.0

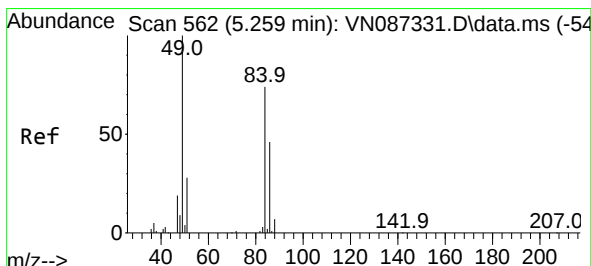
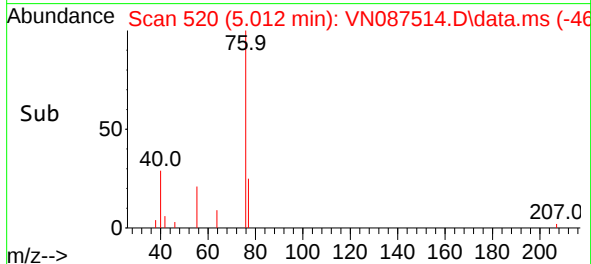
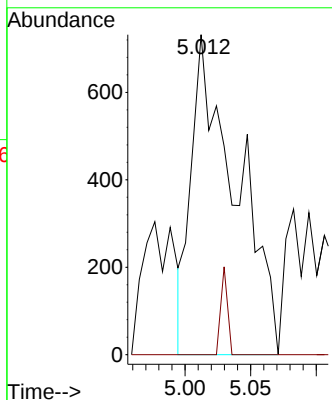
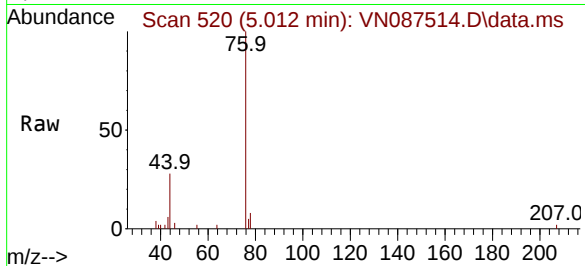




#18
Methyl Acetate
Concen: 0.352 ug/l
RT: 5.012 min Scan# 51
Delta R.T. 0.000 min
Lab File: VN087514.D
Acq: 12 Aug 2025 15:07

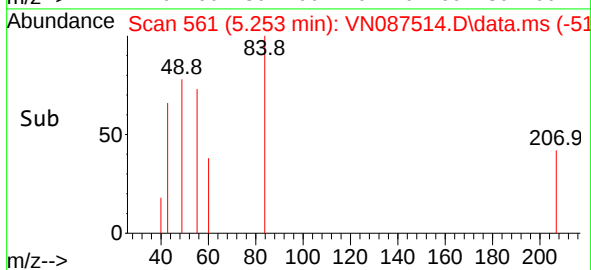
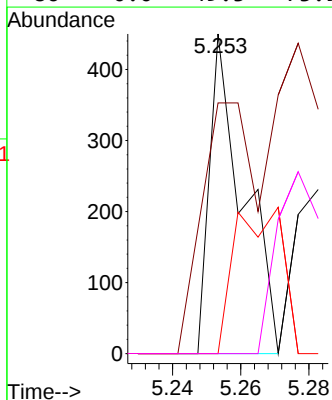
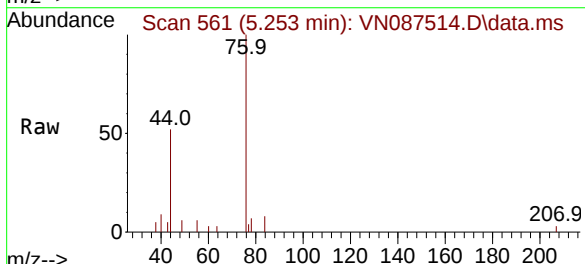
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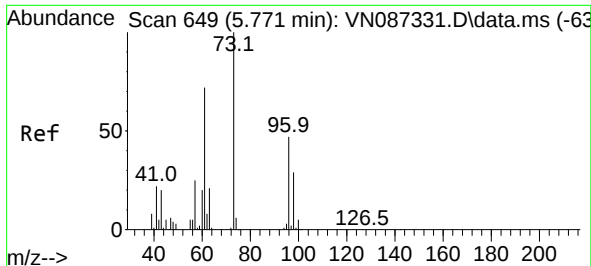
Tgt Ion: 43 Resp: 1724
Ion Ratio Lower Upper
43 100
74 4.1 17.8 26.6#



#20
Methylene Chloride
Concen: Below Cal
RT: 5.253 min Scan# 561
Delta R.T. -0.006 min
Lab File: VN087514.D
Acq: 12 Aug 2025 15:07

Tgt Ion: 84 Resp: 310
Ion Ratio Lower Upper
84 100
49 78.4 107.5 161.3#
51 0.0 30.2 45.2#
86 0.0 49.3 73.9#

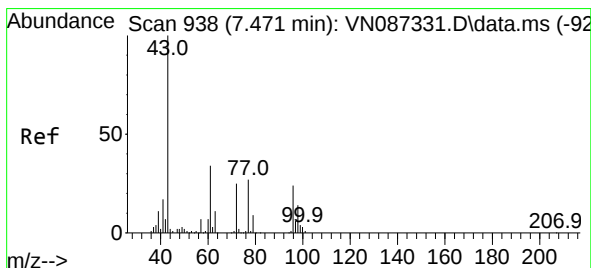
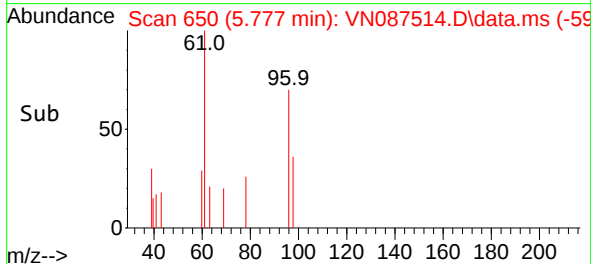
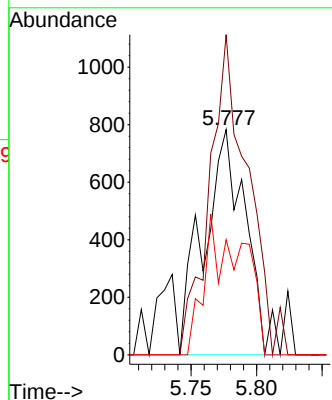
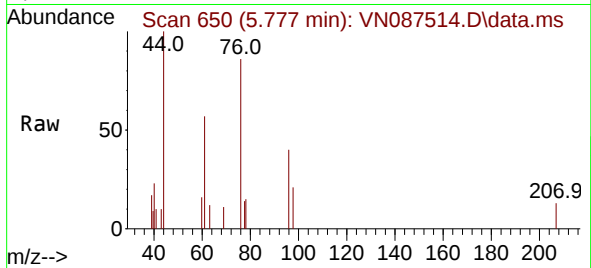




#21
trans-1,2-Dichloroethene
Concen: 0.553 ug/l
RT: 5.777 min Scan# 61
Delta R.T. 0.006 min
Lab File: VN087514.D
Acq: 12 Aug 2025 15:07

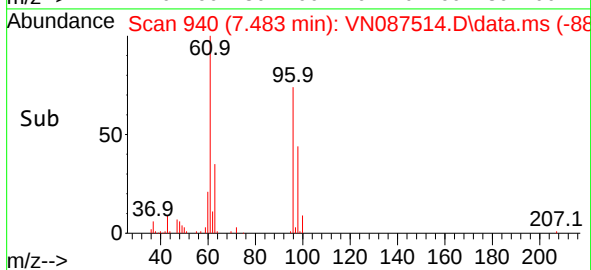
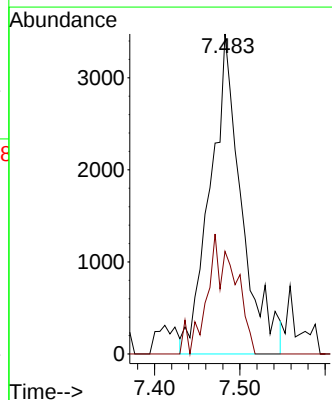
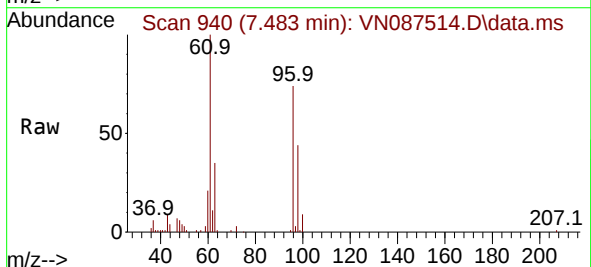
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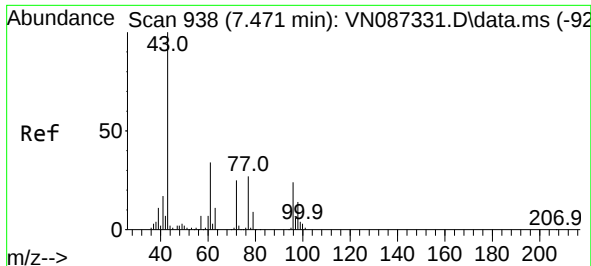
Tgt Ion: 96 Resp: 1745
Ion Ratio Lower Upper
96 100
61 142.1 122.0 183.0
98 51.1 50.0 75.0



#25
2-Butanone
Concen: 2.927 ug/l
RT: 7.483 min Scan# 940
Delta R.T. 0.012 min
Lab File: VN087514.D
Acq: 12 Aug 2025 15:07

Tgt Ion: 43 Resp: 8824
Ion Ratio Lower Upper
43 100
72 33.6 19.6 29.4#

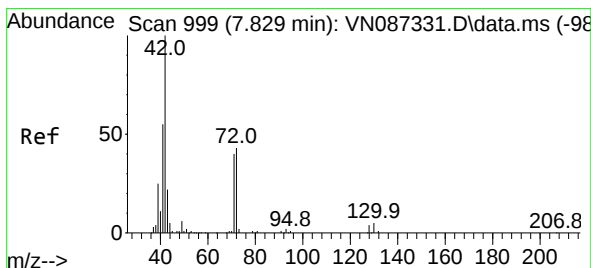
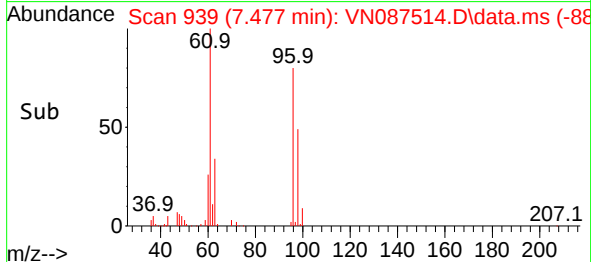
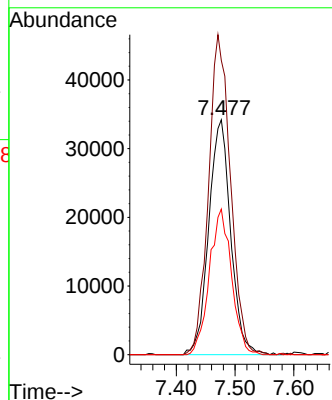
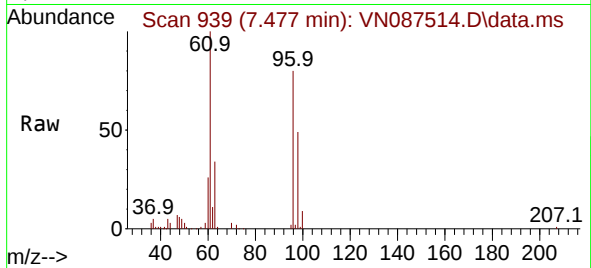




#27
 cis-1,2-Dichloroethene
 Concen: 24.405 ug/l
 RT: 7.477 min Scan# 91
 Delta R.T. 0.006 min
 Lab File: VN087514.D
 Acq: 12 Aug 2025 15:07

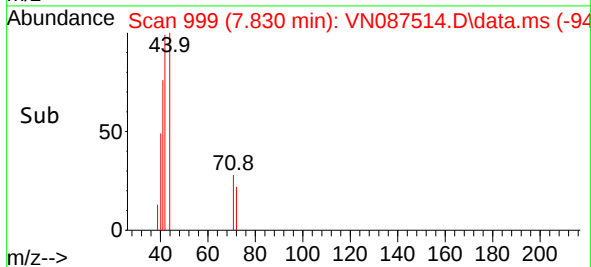
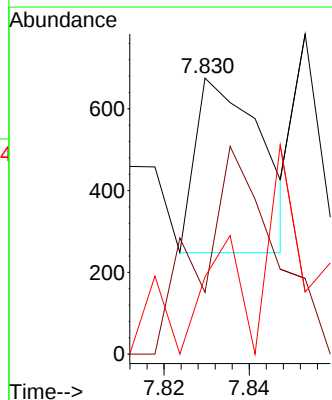
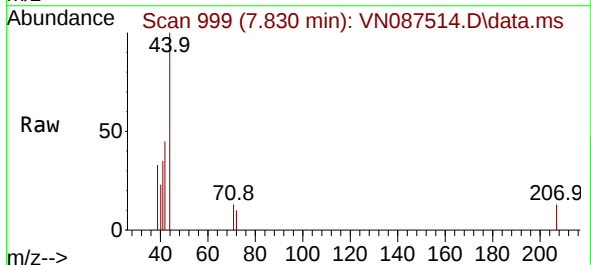
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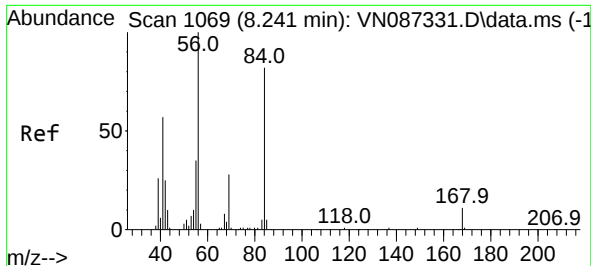
Tgt Ion: 96 Resp: 88700
 Ion Ratio Lower Upper
 96 100
 61 136.8 0.0 297.8
 98 62.6 0.0 132.4



#29
 Tetrahydrofuran
 Concen: 0.234 ug/l
 RT: 7.830 min Scan# 999
 Delta R.T. 0.000 min
 Lab File: VN087514.D
 Acq: 12 Aug 2025 15:07

Tgt Ion: 42 Resp: 459
 Ion Ratio Lower Upper
 42 100
 72 131.8 33.4 50.0#
 71 51.4 31.2 46.8#

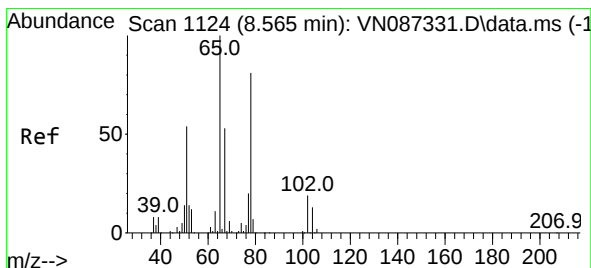
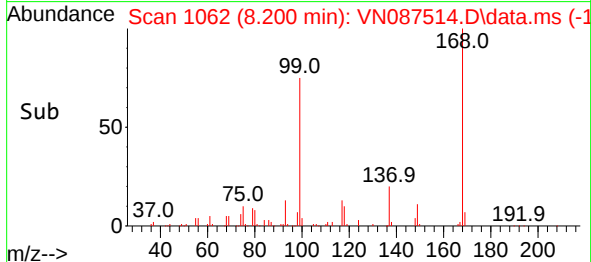
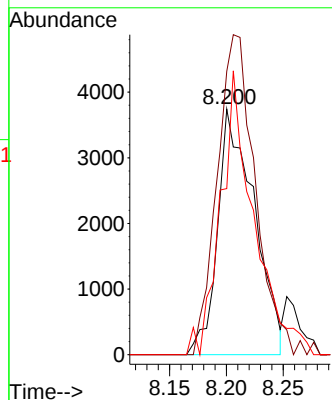
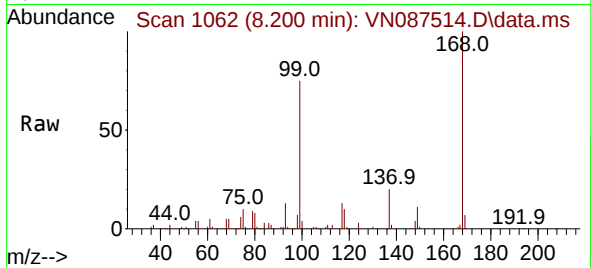




#31
Cyclohexane
Concen: 1.640 ug/l
RT: 8.200 min Scan# 1062
Delta R.T. -0.041 min
Lab File: VN087514.D
Acq: 12 Aug 2025 15:07

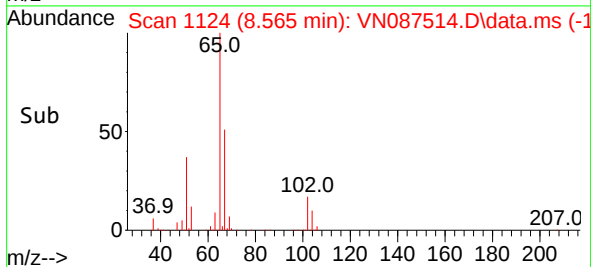
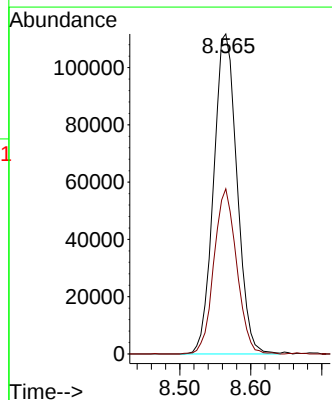
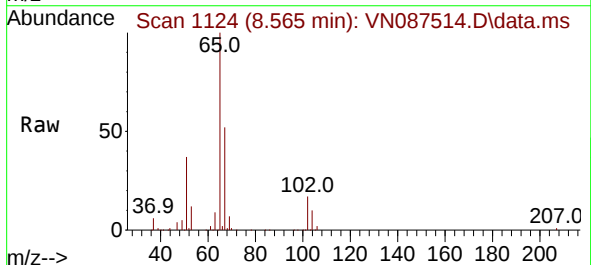
Instrument :
MSVOA_N
ClientSampleId :
1058-MW-11(15)

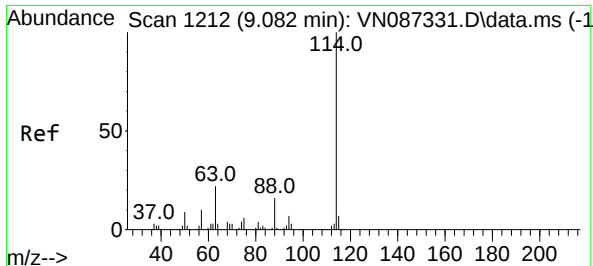
Tgt Ion: 56 Resp: 8390
Ion Ratio Lower Upper
56 100
69 115.4 22.7 34.1#
84 67.7 65.8 98.6



#33
1,2-Dichloroethane-d4
Concen: 61.338 ug/l
RT: 8.565 min Scan# 1124
Delta R.T. 0.000 min
Lab File: VN087514.D
Acq: 12 Aug 2025 15:07

Tgt Ion: 65 Resp: 255216
Ion Ratio Lower Upper
65 100
67 50.2 0.0 104.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.082 min Scan# 11

Delta R.T. 0.000 min

Lab File: VN087514.D

Acq: 12 Aug 2025 15:07

Instrument :

MSVOA_N

ClientSampleId :

1058-MW-11(15)

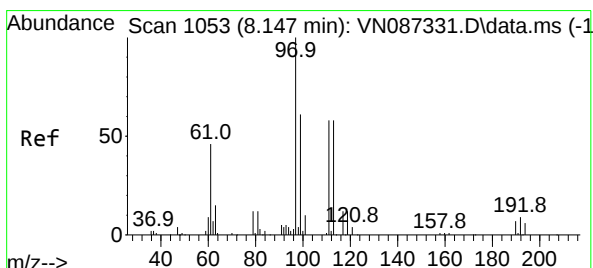
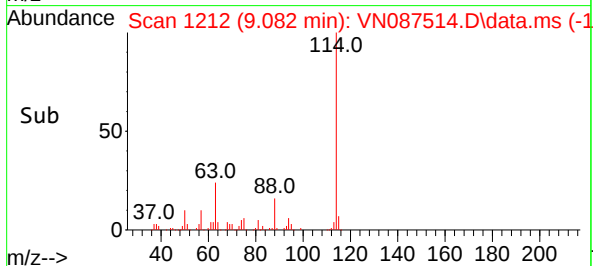
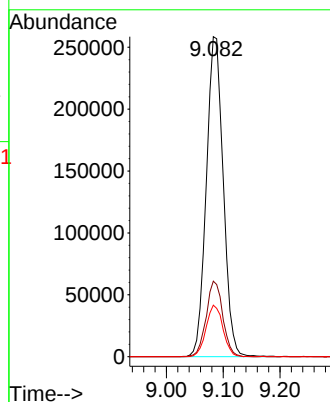
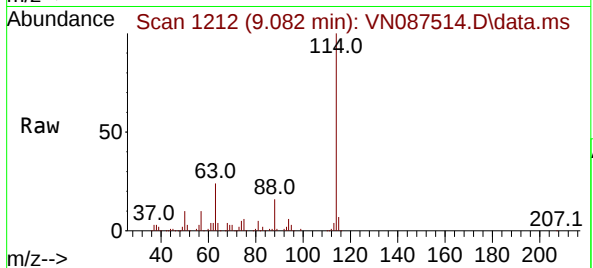
Tgt Ion:114 Resp: 533590

Ion Ratio Lower Upper

114 100

63 23.6 0.0 44.6

88 16.1 0.0 32.8



#35

Dibromofluoromethane

Concen: 49.914 ug/l

RT: 8.153 min Scan# 1054

Delta R.T. 0.006 min

Lab File: VN087514.D

Acq: 12 Aug 2025 15:07

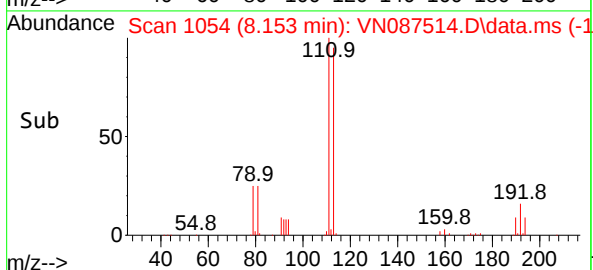
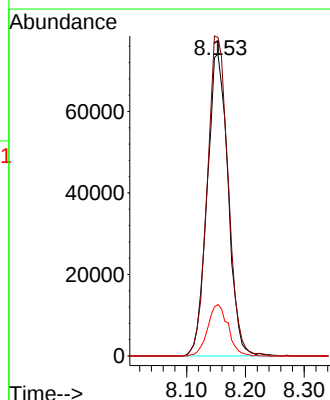
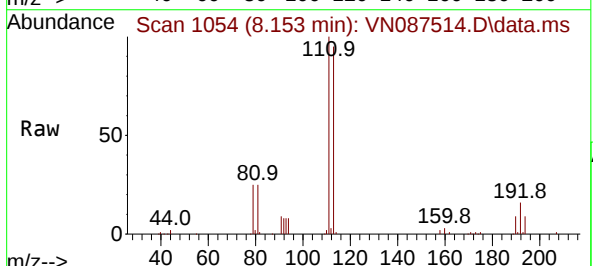
Tgt Ion:113 Resp: 183717

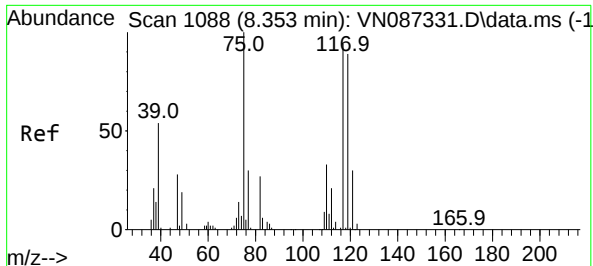
Ion Ratio Lower Upper

113 100

111 105.0 82.5 123.7

192 16.6 13.7 20.5





#36

1,1-Dichloropropene

Concen: 5.192 ug/l

RT: 8.206 min Scan# 1063

Delta R.T. -0.147 min

Lab File: VN087514.D

Acq: 12 Aug 2025 15:07

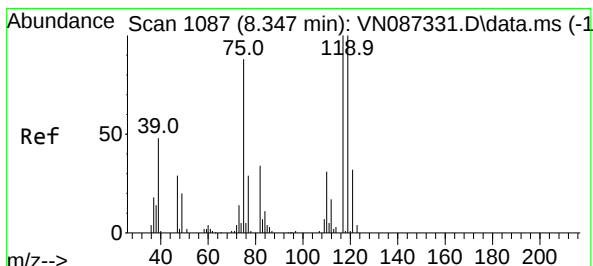
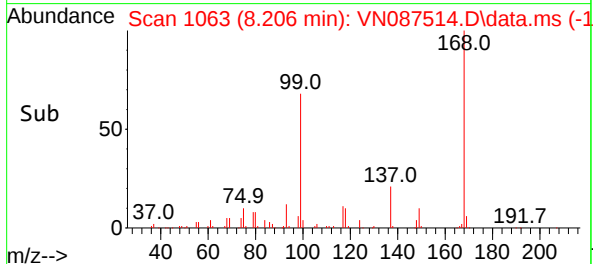
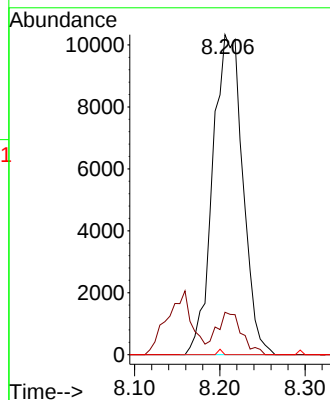
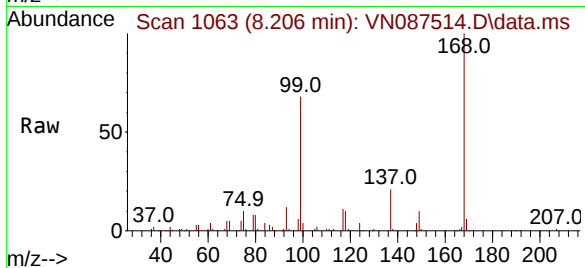
Instrument :

MSVOA_N

ClientSampleId :

1058-MW-11(15)

Tgt Ion: 75	Resp: 25250
Ion Ratio	Lower Upper
75	100
110	11.2 16.7 50.1#
77	0.2 25.2 37.8#



#38

Carbon Tetrachloride

Concen: 5.375 ug/l

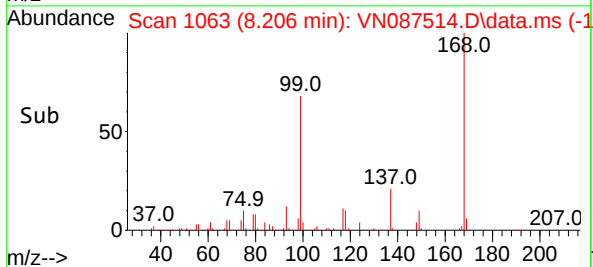
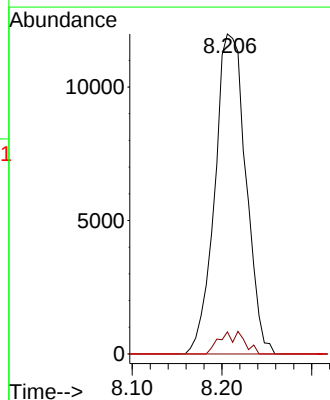
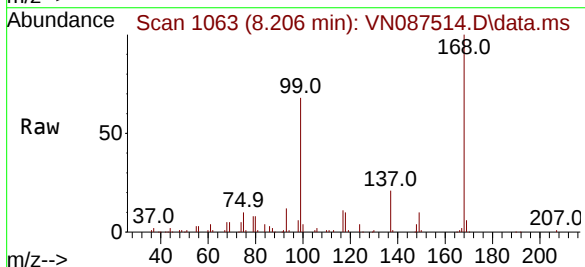
RT: 8.206 min Scan# 1063

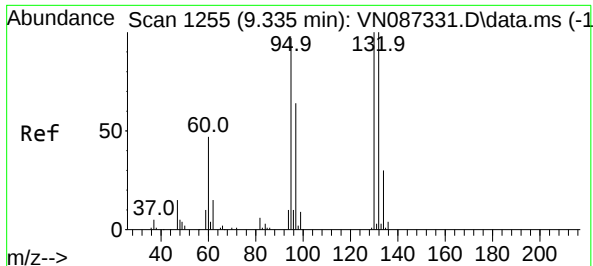
Delta R.T. -0.141 min

Lab File: VN087514.D

Acq: 12 Aug 2025 15:07

Tgt Ion: 117	Resp: 28792
Ion Ratio	Lower Upper
117	100
119	6.9 80.2 120.2#
121	0.0 25.4 38.2#

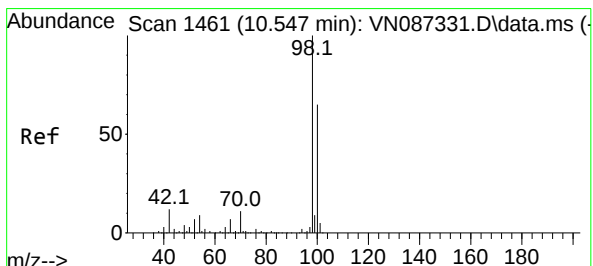
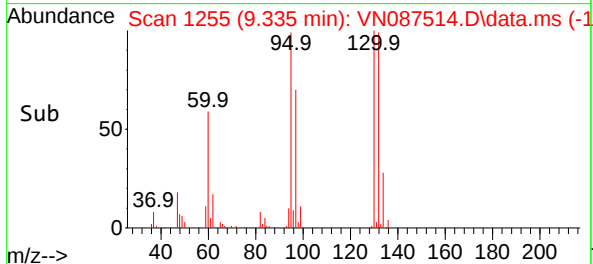
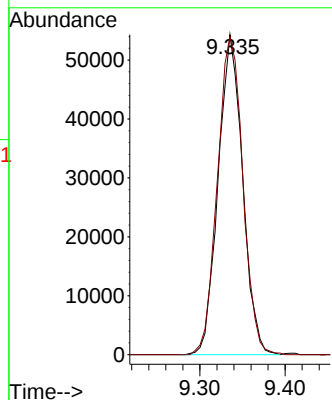
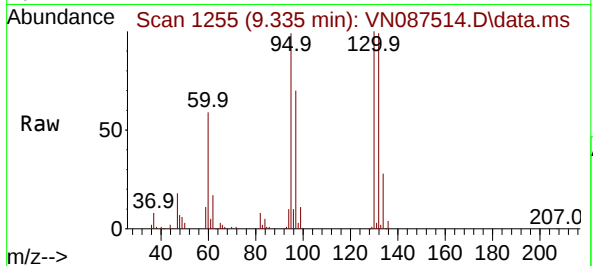




#44
Trichloroethene
Concen: 29.082 ug/l
RT: 9.335 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN087514.D
Acq: 12 Aug 2025 15:07

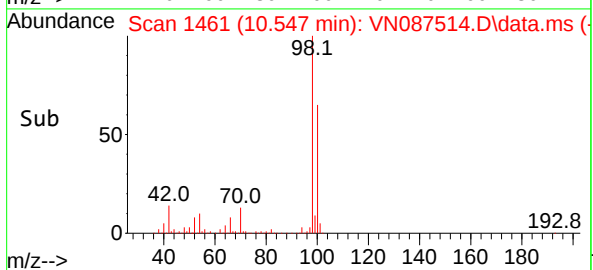
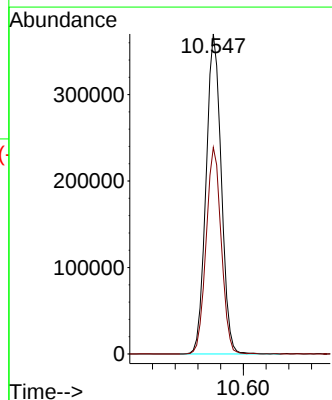
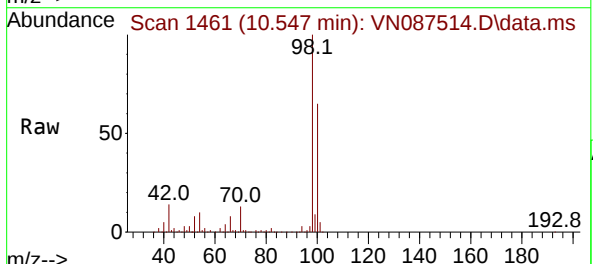
Instrument :
MSVOA_N
ClientSampleId :
1058-MW-11(15)

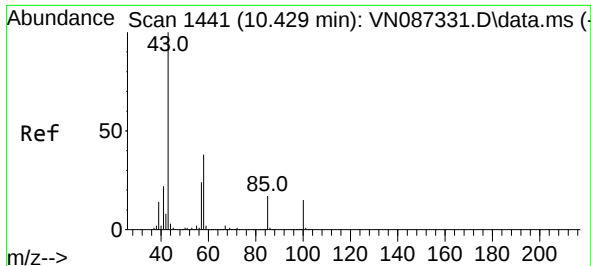
Tgt Ion:130 Resp: 108002
Ion Ratio Lower Upper
130 100
95 99.3 0.0 195.2



#50
Toluene-d8
Concen: 52.213 ug/l
RT: 10.547 min Scan# 1461
Delta R.T. 0.000 min
Lab File: VN087514.D
Acq: 12 Aug 2025 15:07

Tgt Ion: 98 Resp: 685529
Ion Ratio Lower Upper
98 100
100 64.0 52.1 78.1

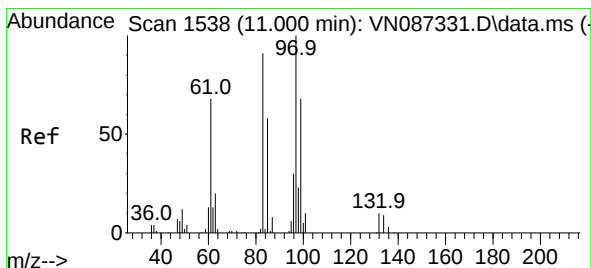
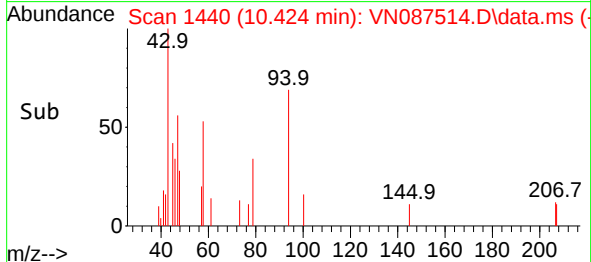
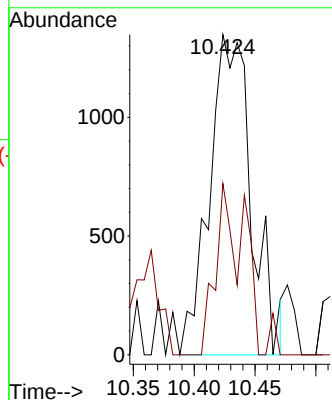
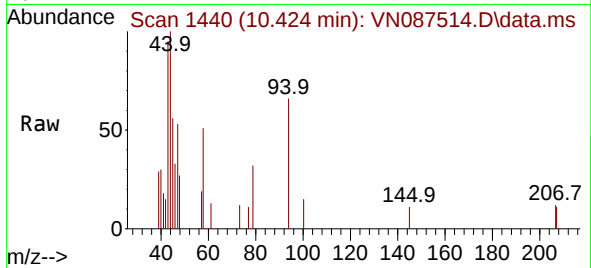




#51
4-Methyl-2-Pentanone
Concen: 0.468 ug/l
RT: 10.424 min Scan# 1440
Delta R.T. -0.005 min
Lab File: VN087514.D
Acq: 12 Aug 2025 15:07

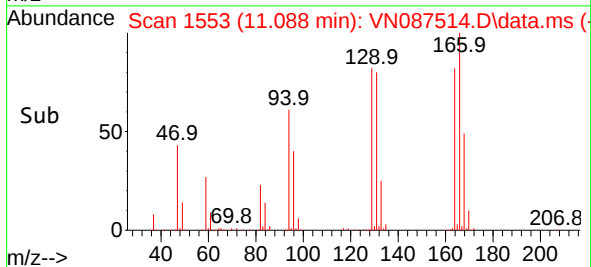
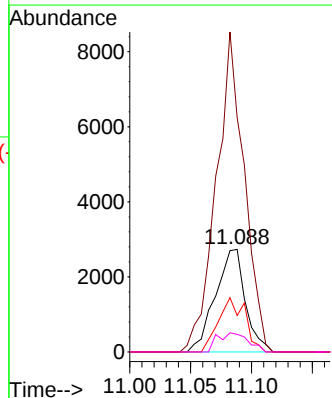
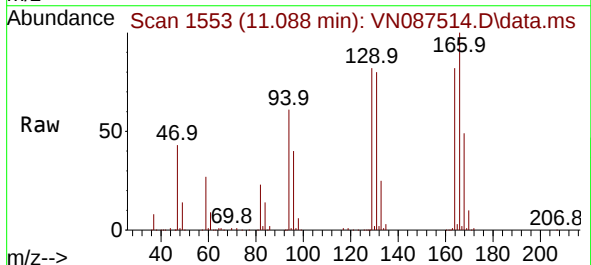
Instrument :
MSVOA_N
ClientSampleId :
1058-MW-11(15)

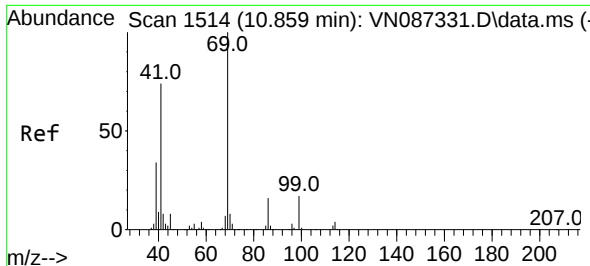
Tgt Ion: 43 Resp: 3226
Ion Ratio Lower Upper
43 100
58 23.1 30.8 46.2#



#55
1,1,2-Trichloroethane
Concen: 1.213 ug/l
RT: 11.088 min Scan# 1553
Delta R.T. 0.088 min
Lab File: VN087514.D
Acq: 12 Aug 2025 15:07

Tgt Ion: 97 Resp: 4693
Ion Ratio Lower Upper
97 100
83 228.5 72.6 109.0#
85 35.6 46.7 70.1#
99 17.1 54.1 81.1#

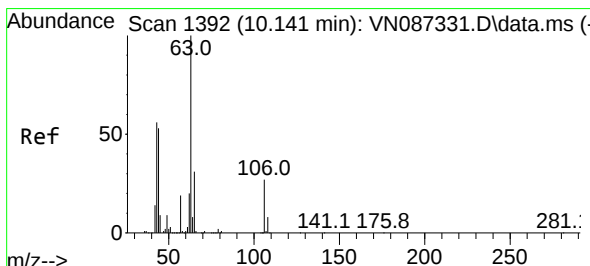
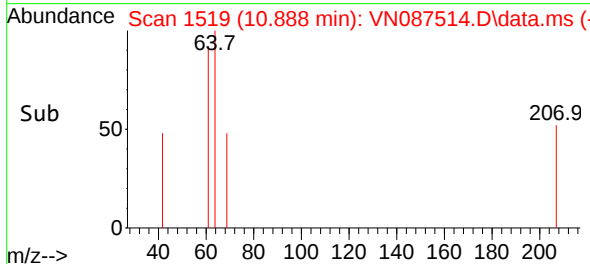
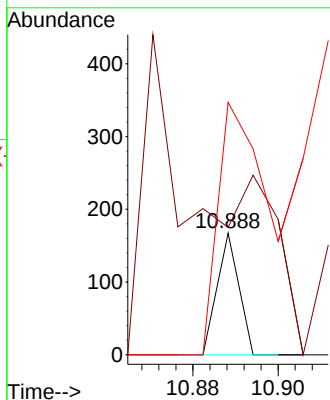
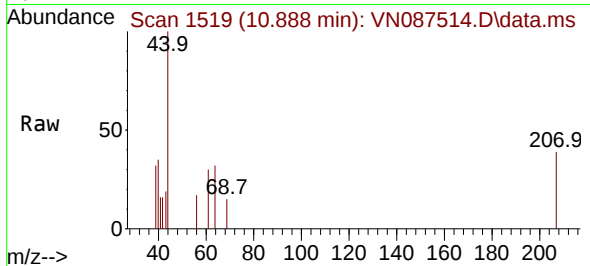




#56
Ethyl methacrylate
Concen: 0.644 ug/l
RT: 10.888 min Scan# 11
Delta R.T. 0.029 min
Lab File: VN087514.D
Acq: 12 Aug 2025 15:07

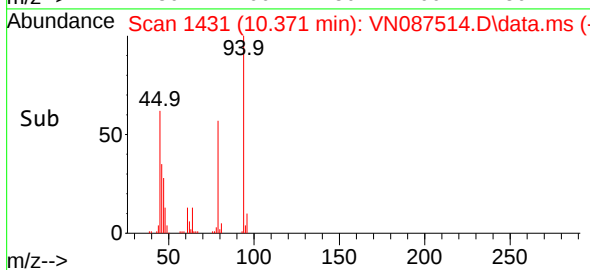
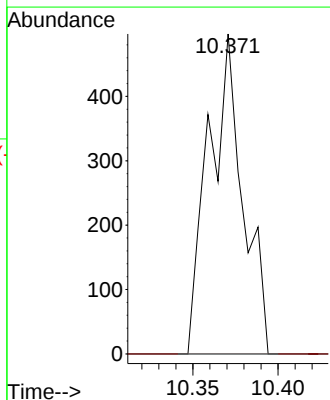
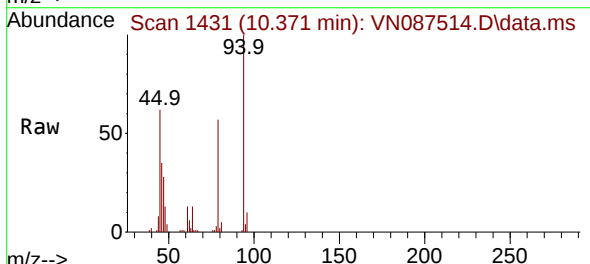
Instrument :
MSVOA_N
ClientSampleId :
1058-MW-11(15)

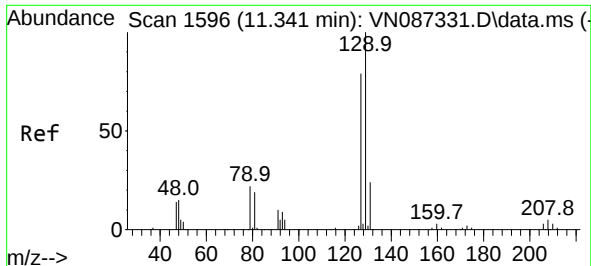
Tgt Ion: 69 Resp: 59
Ion Ratio Lower Upper
69 100
41 593.2 55.1 82.7#
39 469.5 27.9 41.9#



#58
2-Chloroethyl Vinyl ether
Concen: 0.219 ug/l
RT: 10.371 min Scan# 1431
Delta R.T. 0.230 min
Lab File: VN087514.D
Acq: 12 Aug 2025 15:07

Tgt Ion: 63 Resp: 695
Ion Ratio Lower Upper
63 100
106 0.0 21.7 32.5#

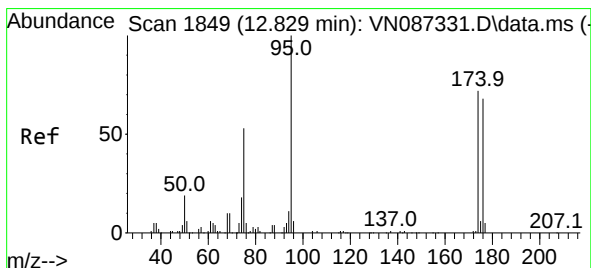
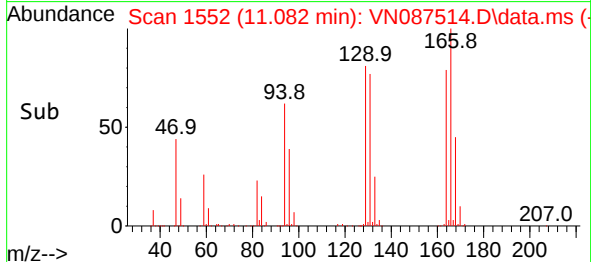
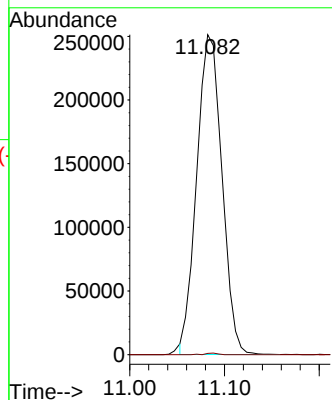
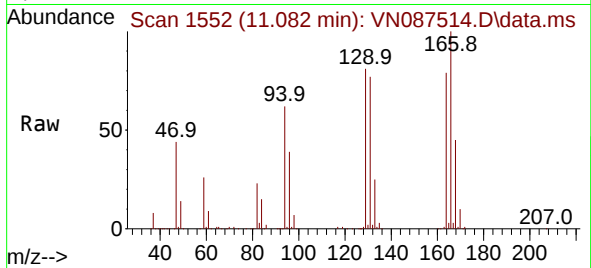




#60
Dibromochloromethane
Concen: 105.275 ug/l
RT: 11.082 min Scan# 11
Delta R.T. -0.259 min
Lab File: VN087514.D
Acq: 12 Aug 2025 15:07

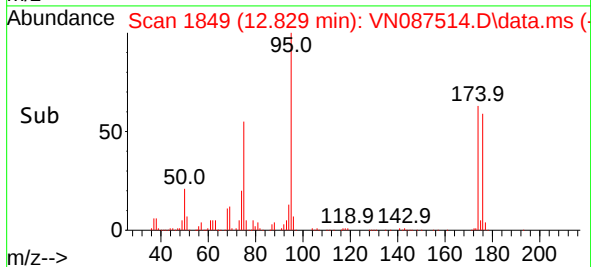
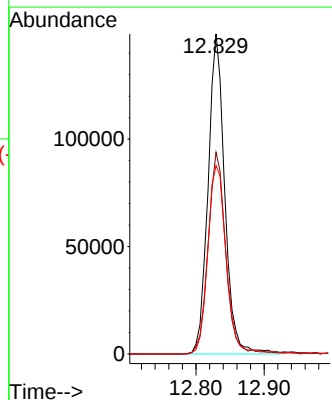
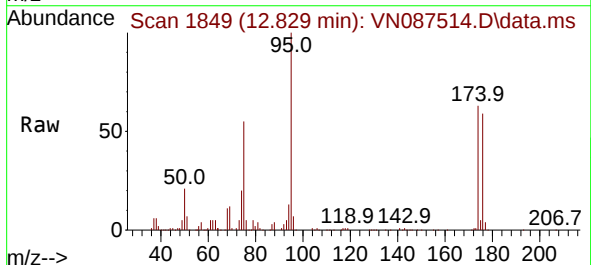
Instrument :
MSVOA_N
ClientSampleId :
1058-MW-11(15)

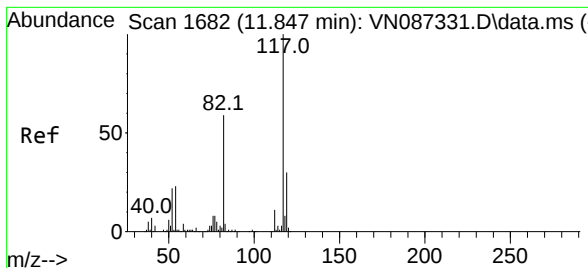
Tgt Ion:129 Resp: 464336
Ion Ratio Lower Upper
129 100
127 0.2 39.1 117.5#



#62
4-Bromofluorobenzene
Concen: 52.360 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.000 min
Lab File: VN087514.D
Acq: 12 Aug 2025 15:07

Tgt Ion: 95 Resp: 253983
Ion Ratio Lower Upper
95 100
174 66.1 0.0 149.4
176 64.8 0.0 141.2





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.847 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN087514.D

Acq: 12 Aug 2025 15:07

Instrument :

MSVOA_N

ClientSampleId :

1058-MW-11(15)

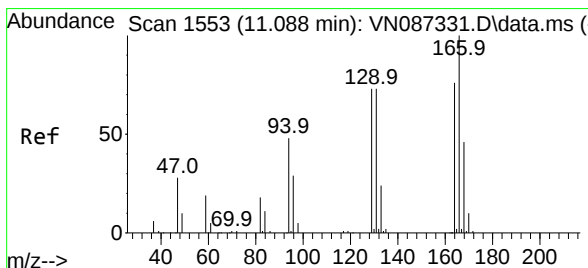
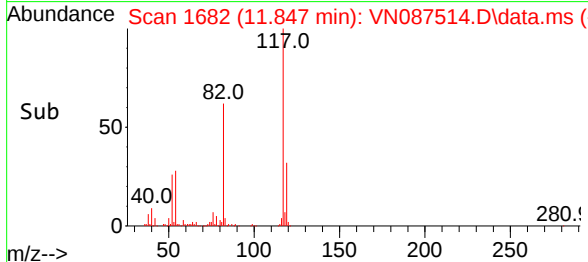
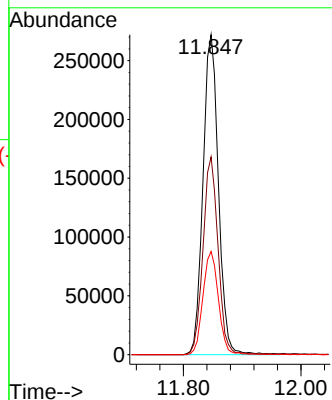
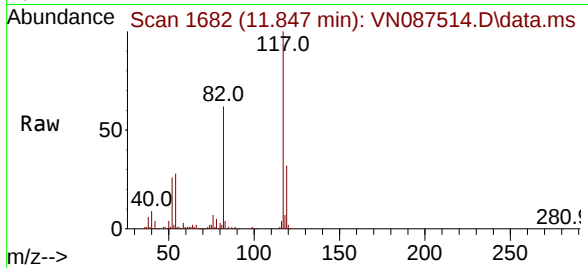
Tgt Ion:117 Resp: 497794

Ion Ratio Lower Upper

117 100

82 61.8 47.4 71.2

119 32.2 23.8 35.8



#64

Tetrachloroethene

Concen: 142.664 ug/l

RT: 11.082 min Scan# 1552

Delta R.T. -0.006 min

Lab File: VN087514.D

Acq: 12 Aug 2025 15:07

Tgt Ion:164 Resp: 457072

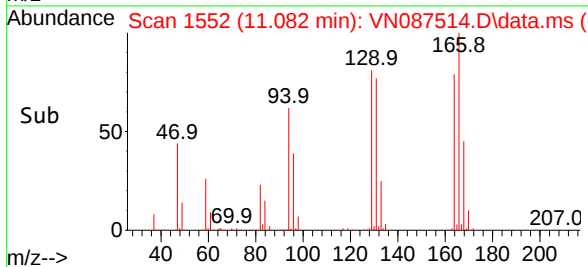
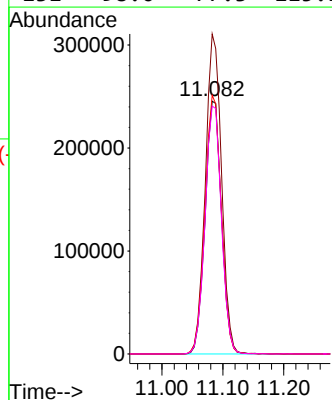
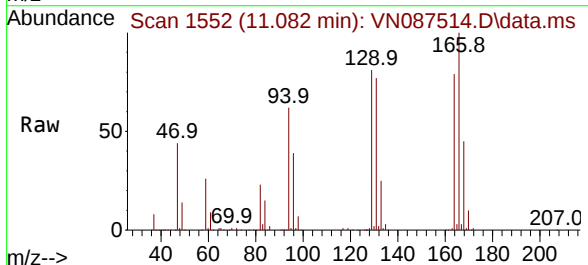
Ion Ratio Lower Upper

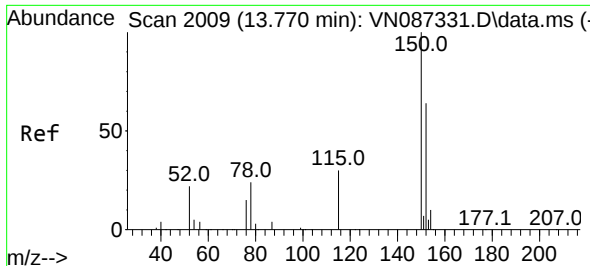
164 100

166 126.6 105.5 158.3

129 102.4 77.4 116.2

131 98.0 77.3 115.9

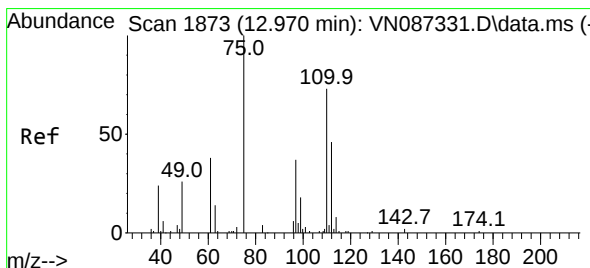
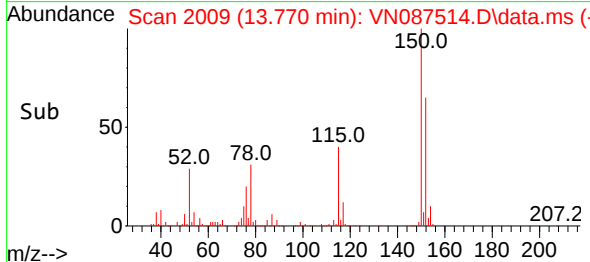
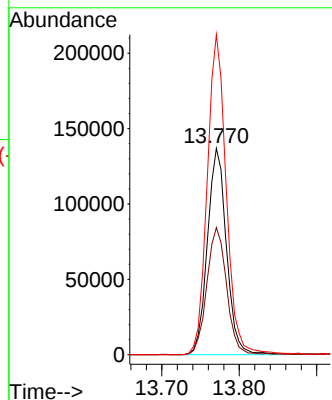
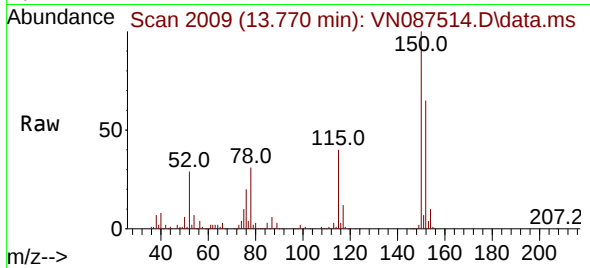




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.770 min Scan# 2009
 Delta R.T. 0.000 min
 Lab File: VN087514.D
 Acq: 12 Aug 2025 15:07

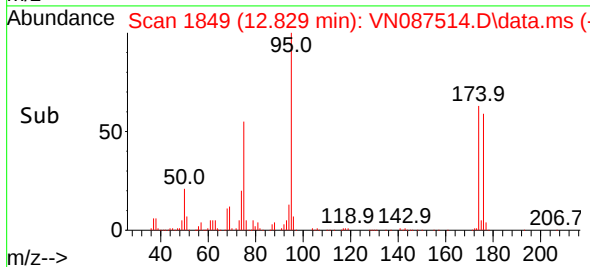
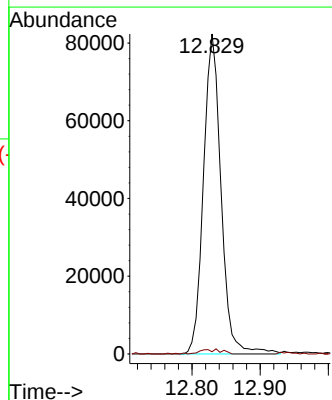
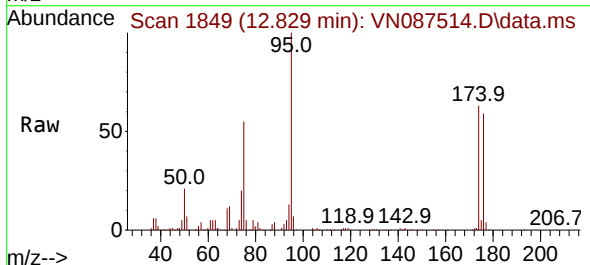
Instrument :
 MSVOA_N
 ClientSampleId :
 1058-MW-11(15)

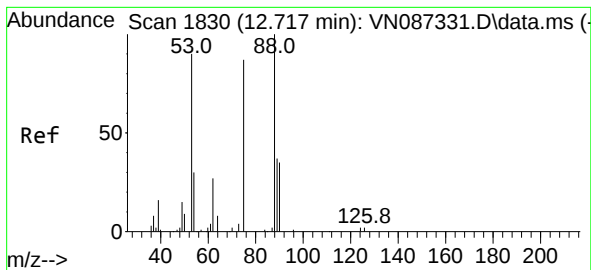
Tgt Ion:152 Resp: 234425
 Ion Ratio Lower Upper
 152 100
 115 64.2 31.1 93.5
 150 155.0 0.0 349.0



#76
 1,2,3-Trichloropropane
 Concen: 28.095 ug/l
 RT: 12.829 min Scan# 1849
 Delta R.T. -0.141 min
 Lab File: VN087514.D
 Acq: 12 Aug 2025 15:07

Tgt Ion: 75 Resp: 147690
 Ion Ratio Lower Upper
 75 100
 77 0.9 94.5 283.6#





#81
 trans-1,4-Dichloro-2-butene
 Concen: 76.873 ug/l
 RT: 12.829 min Scan# 11
 Delta R.T. 0.112 min
 Lab File: VN087514.D
 Acq: 12 Aug 2025 15:07

Instrument :
 MSVOA_N
 ClientSampleId :
 1058-MW-11(15)

Tgt Ion: 75 Resp: 147690
 Ion Ratio Lower Upper
 75 100
 53 0.0 83.5 125.3#
 89 0.0 38.4 57.6#

