

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN060325\
 Data File : VN086858.D
 Acq On : 03 Jun 2025 21:25
 Operator : JC\MD
 Sample : Q2185-04
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 TP02-MHB-WC

Quant Time: Jun 04 02:08:09 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N051625W.M
 Quant Title : SW846 8260
 QLast Update : Sat May 17 00:46:13 2025
 Response via : Initial Calibration

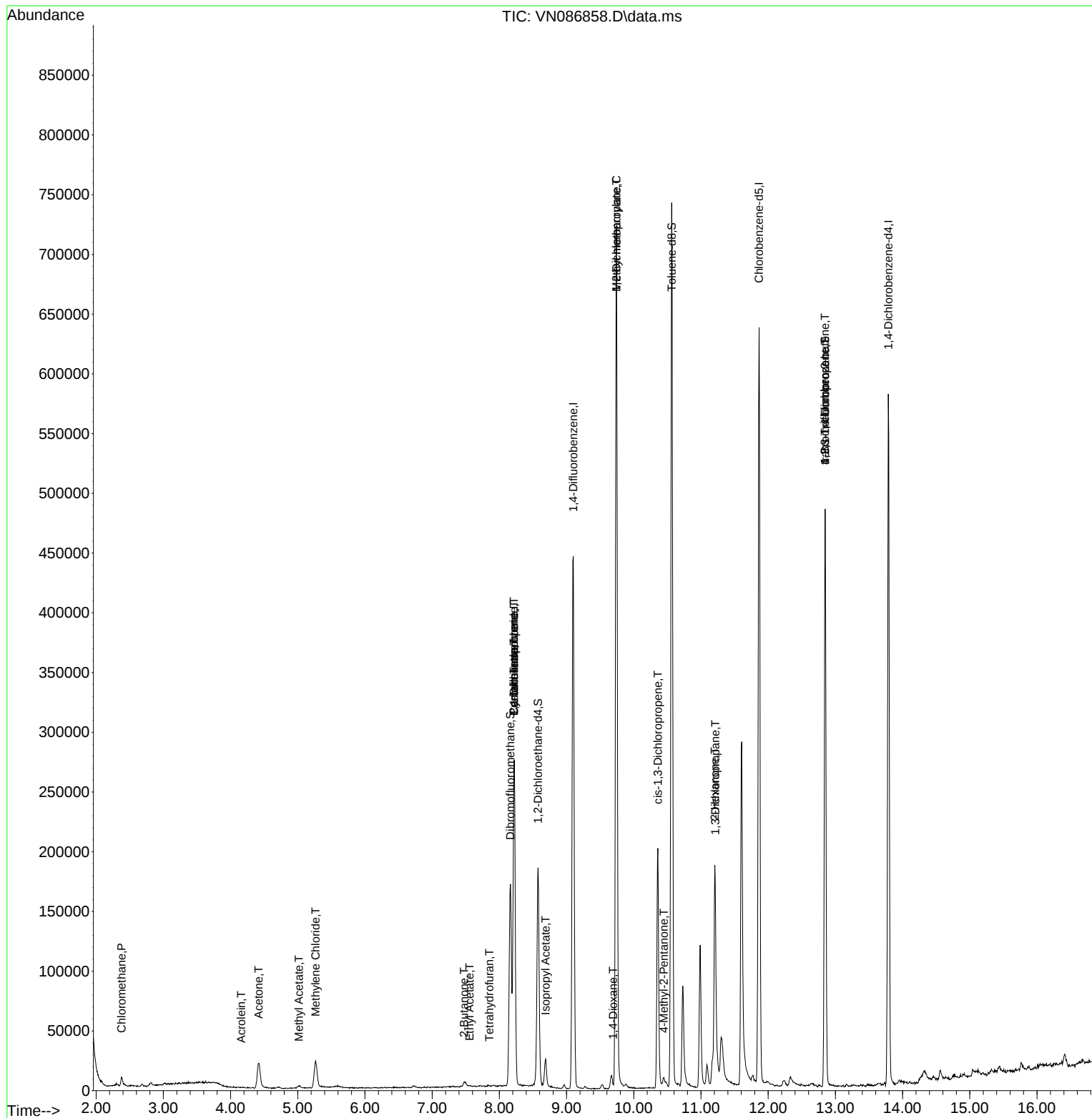
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.218	168	211288	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	418442	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	389363	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	164227	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	149462	51.192	ug/l	0.00
Spiked Amount	50.000	Range 74 - 125	Recovery	= 102.380%		
35) Dibromofluoromethane	8.165	113	130422	52.336	ug/l	0.00
Spiked Amount	50.000	Range 75 - 124	Recovery	= 104.680%		
50) Toluene-d8	10.565	98	531499	51.467	ug/l	0.00
Spiked Amount	50.000	Range 86 - 113	Recovery	= 102.940%		
62) 4-Bromofluorobenzene	12.847	95	187591	51.446	ug/l	0.00
Spiked Amount	50.000	Range 77 - 121	Recovery	= 102.900%		
Target Compounds						Qvalue
3) Chloromethane	2.377	50	14316	4.148	ug/l	96
13) Acrolein	4.159	56	539	0.948	ug/l #	35
16) Acetone	4.418	43	43409	39.747	ug/l	94
18) Methyl Acetate	5.018	43	4440	1.453	ug/l #	69
20) Methylene Chloride	5.265	84	18086	6.276	ug/l	91
25) 2-Butanone	7.477	43	7816	4.631	ug/l	91
29) Tetrahydrofuran	7.853	42	484	0.439	ug/l #	49
31) Cyclohexane	8.218	56	4078	0.931	ug/l #	1
36) 1,1-Dichloropropene	8.218	75	17065	4.643	ug/l #	48
37) Ethyl Acetate	7.559	43	1178	0.317	ug/l #	67
38) Carbon Tetrachloride	8.218	117	20590	5.685	ug/l #	17
43) Isopropyl Acetate	8.688	43	26104	3.507	ug/l	94
45) 1,2-Dichloropropane	9.741	63	901	0.316	ug/l #	42
48) Methyl methacrylate	9.741	41	62140	21.543	ug/l #	35
49) 1,4-Dioxane	9.694	88	84	1.375	ug/l #	24
51) 4-Methyl-2-Pentanone	10.447	43	4412	1.175	ug/l #	85
54) cis-1,3-Dichloropropene	10.359	75	42423	9.268	ug/l #	57
57) 1,3-Dichloropropane	11.212	76	2771	0.579	ug/l #	42
59) 2-Hexanone	11.206	43	28187	10.283	ug/l #	54
76) 1,2,3-Trichloropropane	12.847	75	88984	23.958	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	88984	60.462	ug/l #	15

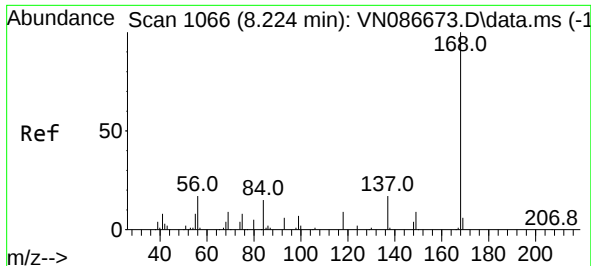
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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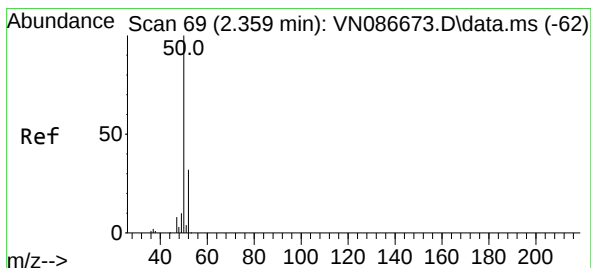
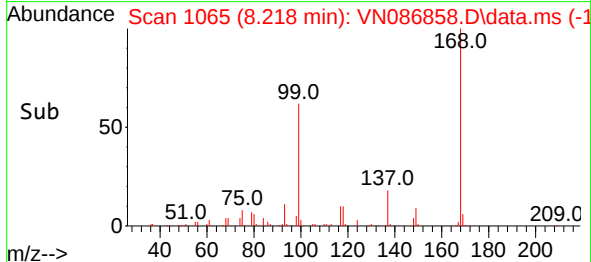
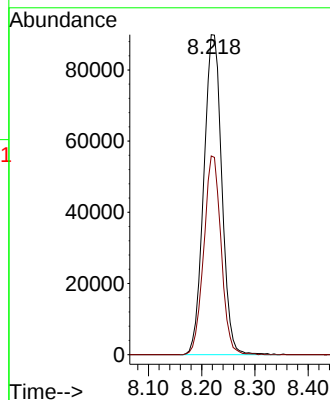
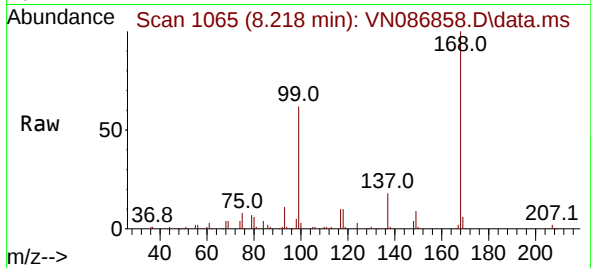




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.218 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN086858.D
Acq: 03 Jun 2025 21:25

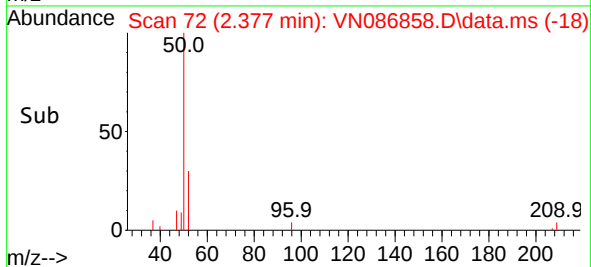
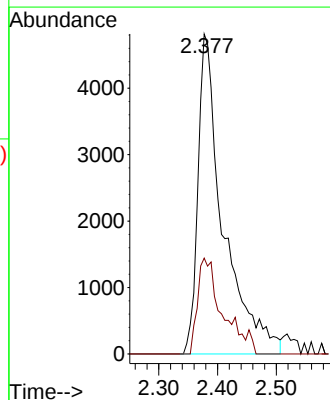
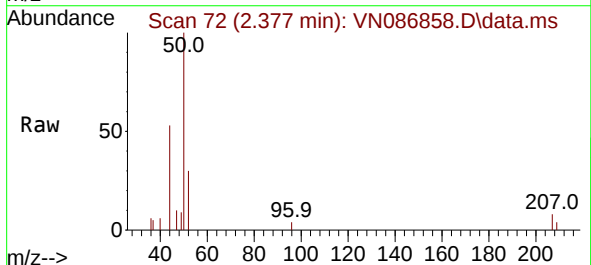
Instrument :
MSVOA_N
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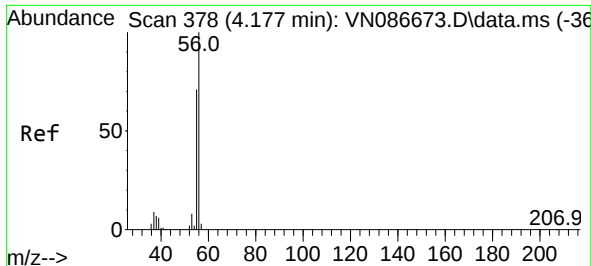
Tgt Ion:168 Resp: 211288
Ion Ratio Lower Upper
168 100
99 62.1 47.0 70.4



#3
Chloromethane
Concen: 4.148 ug/l
RT: 2.377 min Scan# 72
Delta R.T. 0.018 min
Lab File: VN086858.D
Acq: 03 Jun 2025 21:25

Tgt Ion: 50 Resp: 14316
Ion Ratio Lower Upper
50 100
52 29.9 25.9 38.9

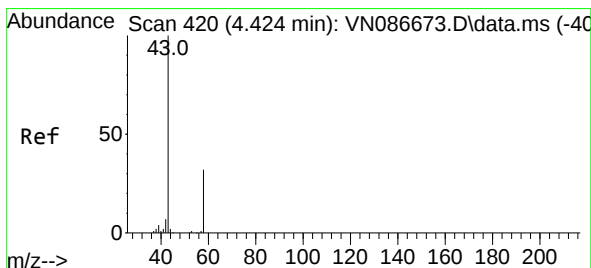
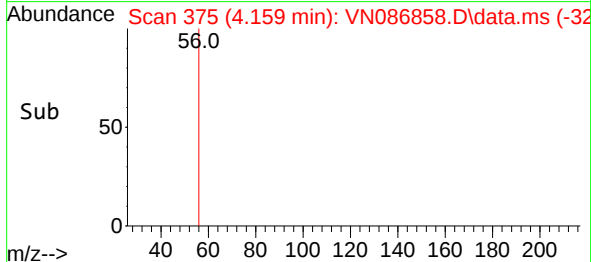
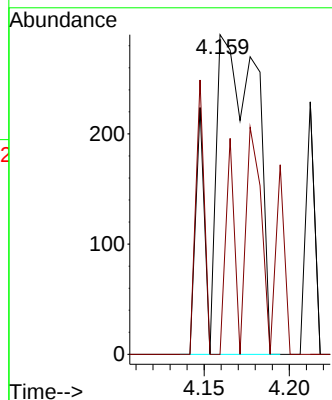
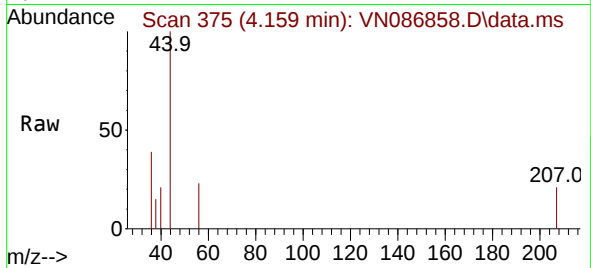




#13
Acrolein
Concen: 0.948 ug/l
RT: 4.159 min Scan# 31
Delta R.T. -0.018 min
Lab File: VN086858.D
Acq: 03 Jun 2025 21:25

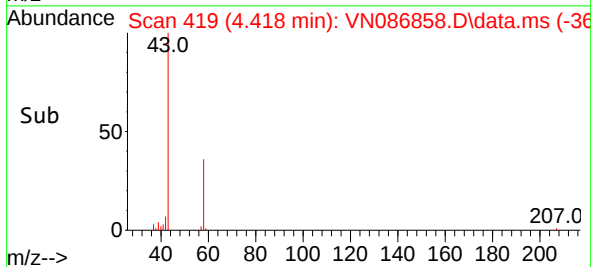
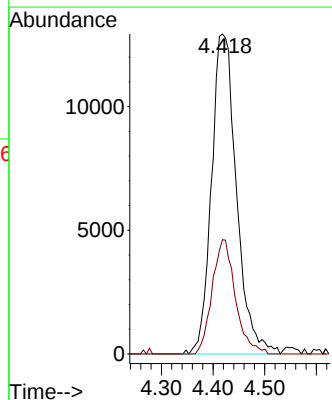
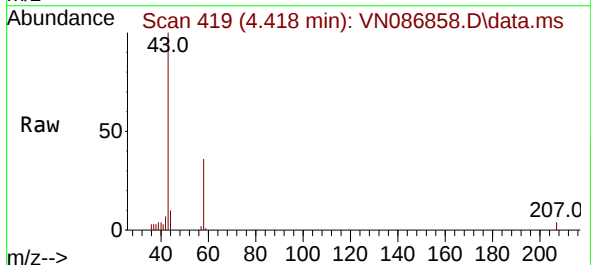
Instrument :
MSVOA_N
ClientSampleId :
TP02-MHB-WC

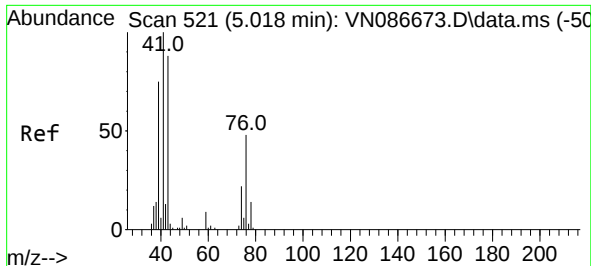
Tgt Ion: 56 Resp: 539
Ion Ratio Lower Upper
56 100
55 16.3 55.7 83.5#



#16
Acetone
Concen: 39.747 ug/l
RT: 4.418 min Scan# 419
Delta R.T. -0.006 min
Lab File: VN086858.D
Acq: 03 Jun 2025 21:25

Tgt Ion: 43 Resp: 43409
Ion Ratio Lower Upper
43 100
58 35.7 25.8 38.6

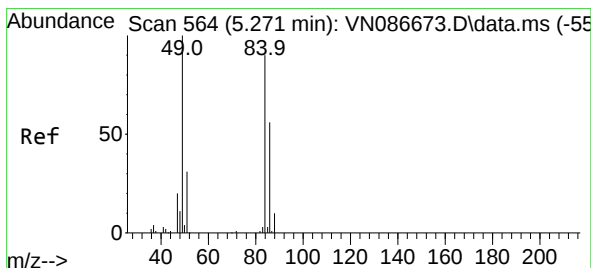
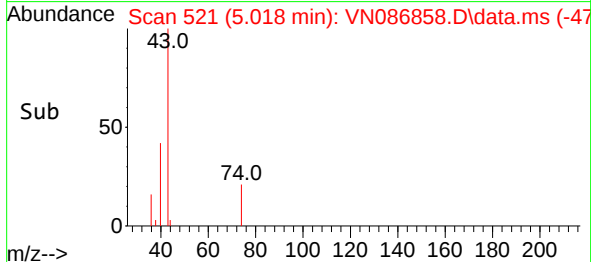
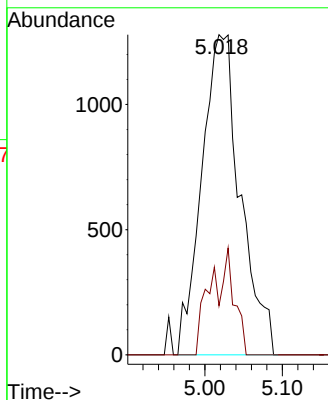
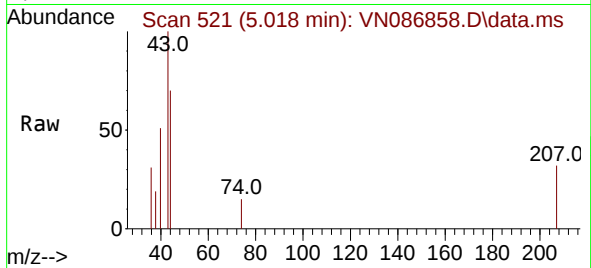




#18
Methyl Acetate
Concen: 1.453 ug/l
RT: 5.018 min Scan# 51
Delta R.T. -0.000 min
Lab File: VN086858.D
Acq: 03 Jun 2025 21:25

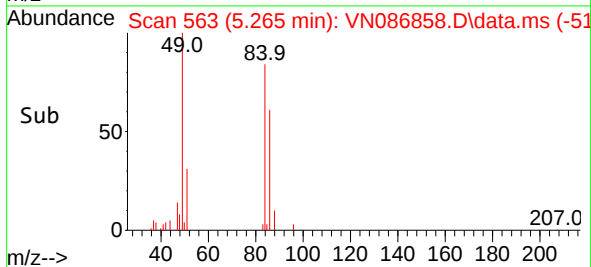
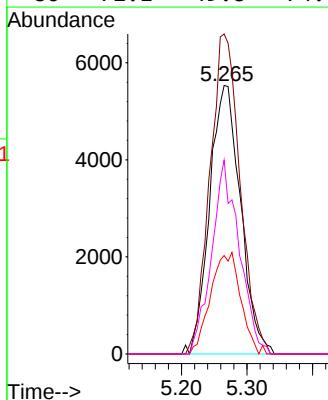
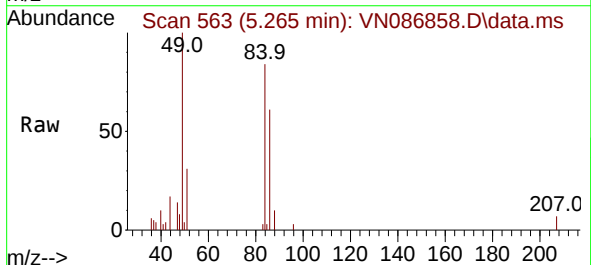
Instrument :
MSVOA_N
ClientSampleId :
TP02-MHB-WC

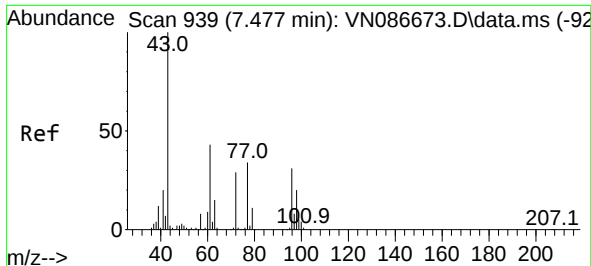
Tgt Ion: 43 Resp: 4440
Ion Ratio Lower Upper
43 100
74 10.0 20.5 30.7#



#20
Methylene Chloride
Concen: 6.276 ug/l
RT: 5.265 min Scan# 563
Delta R.T. -0.006 min
Lab File: VN086858.D
Acq: 03 Jun 2025 21:25

Tgt Ion: 84 Resp: 18086
Ion Ratio Lower Upper
84 100
49 119.2 88.8 133.2
51 36.6 27.8 41.6
86 72.1 49.8 74.6

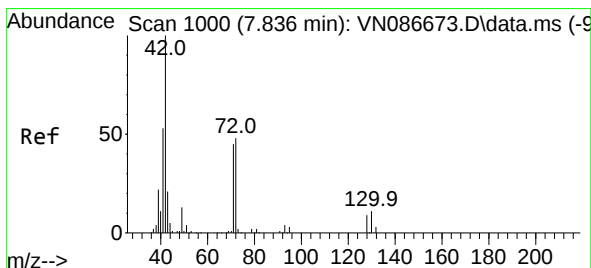
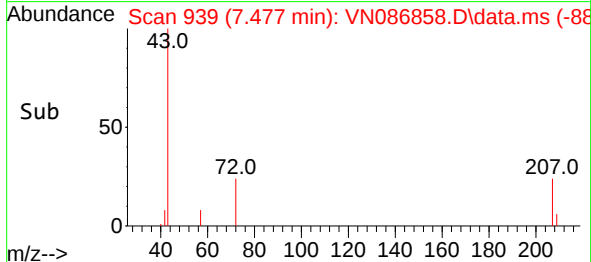
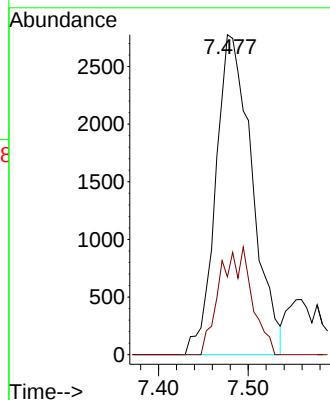
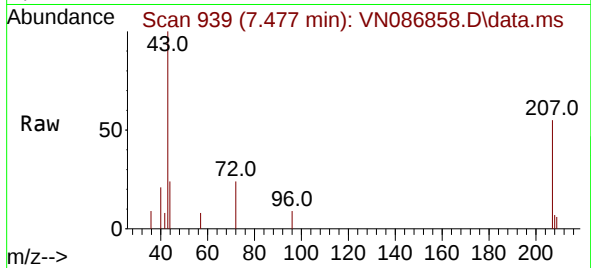




#25
2-Butanone
Concen: 4.631 ug/l
RT: 7.477 min Scan# 91
Delta R.T. -0.000 min
Lab File: VN086858.D
Acq: 03 Jun 2025 21:25

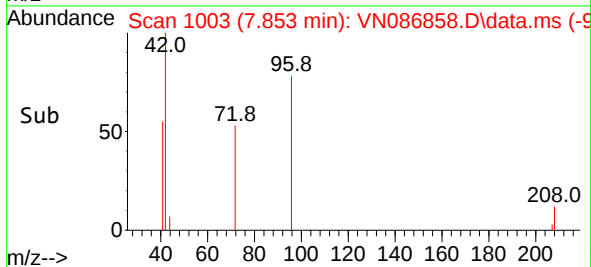
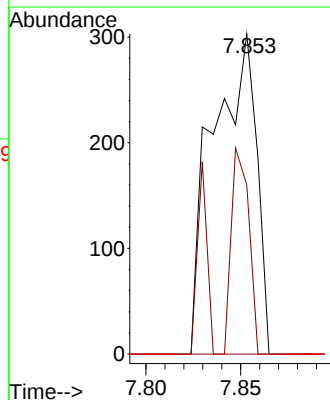
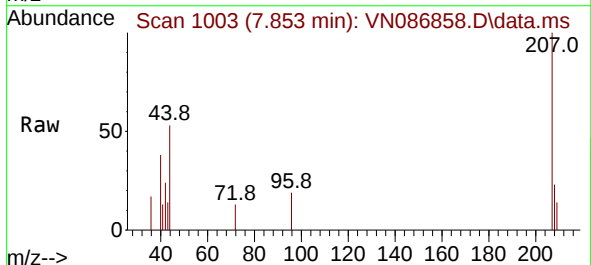
Instrument :
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ClientSampleId :
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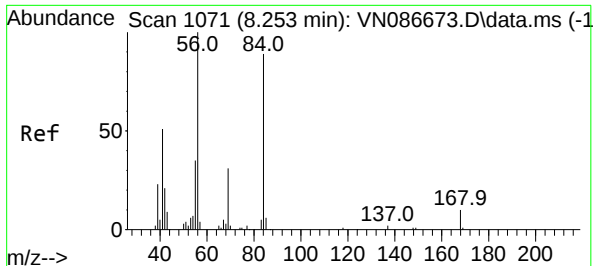
Tgt Ion: 43 Resp: 7816
Ion Ratio Lower Upper
43 100
72 24.3 23.1 34.7



#29
Tetrahydrofuran
Concen: 0.439 ug/l
RT: 7.853 min Scan# 1003
Delta R.T. 0.018 min
Lab File: VN086858.D
Acq: 03 Jun 2025 21:25

Tgt Ion: 42 Resp: 484
Ion Ratio Lower Upper
42 100
72 25.8 38.7 58.1#
71 0.0 36.2 54.4#

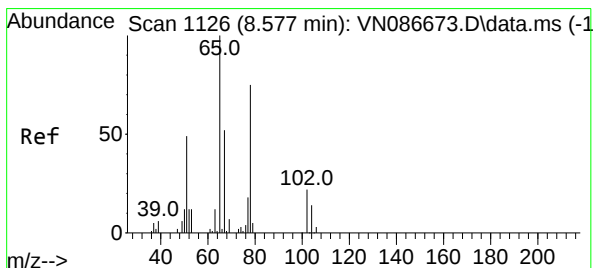
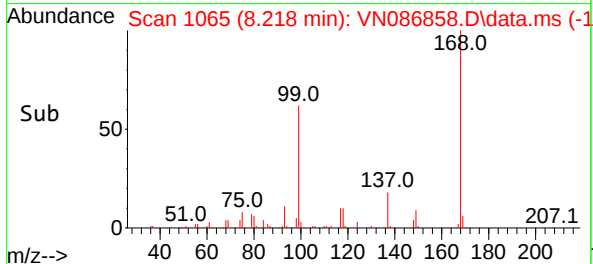
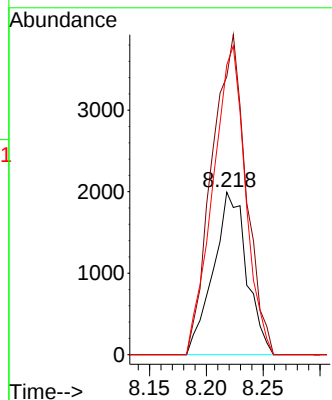
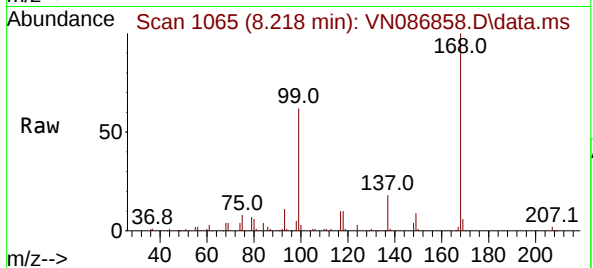




#31
Cyclohexane
Concen: 0.931 ug/l
RT: 8.218 min Scan# 1065
Delta R.T. -0.035 min
Lab File: VN086858.D
Acq: 03 Jun 2025 21:25

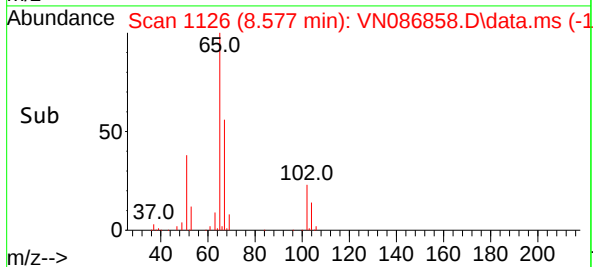
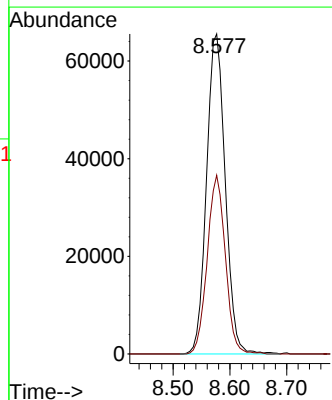
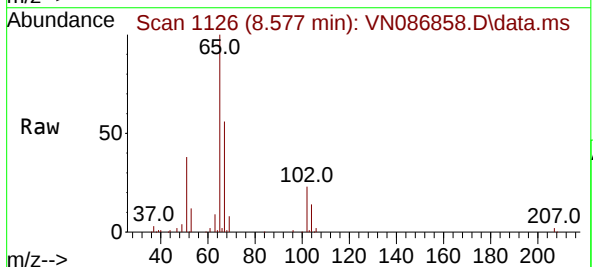
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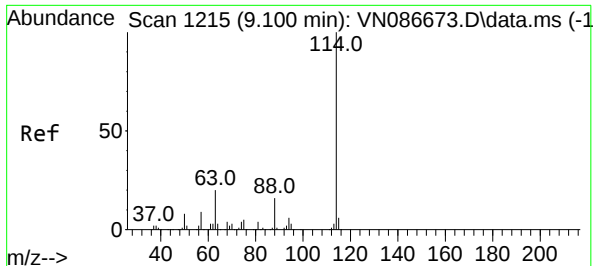
Tgt Ion: 56 Resp: 4078
Ion Ratio Lower Upper
56 100
69 171.1 25.0 37.6#
84 178.2 71.0 106.4#



#33
1,2-Dichloroethane-d4
Concen: 51.192 ug/l
RT: 8.577 min Scan# 1126
Delta R.T. -0.000 min
Lab File: VN086858.D
Acq: 03 Jun 2025 21:25

Tgt Ion: 65 Resp: 149462
Ion Ratio Lower Upper
65 100
67 54.2 0.0 106.4

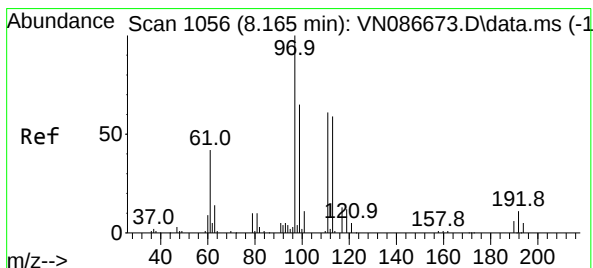
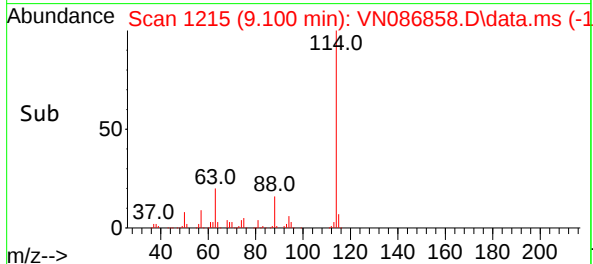
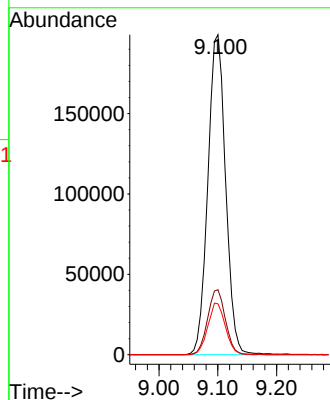
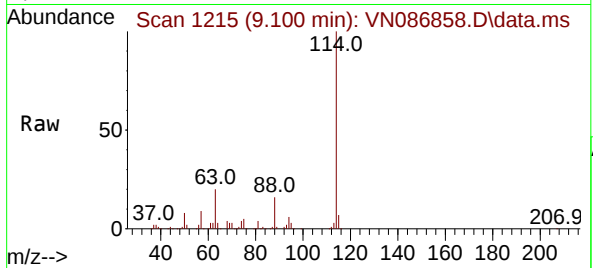




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.100 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN086858.D
Acq: 03 Jun 2025 21:25

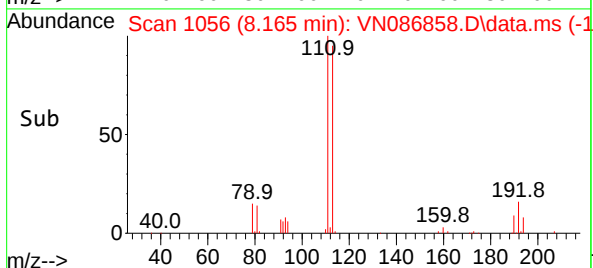
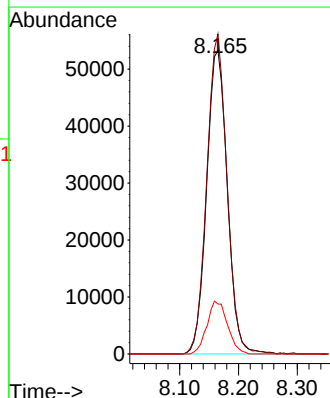
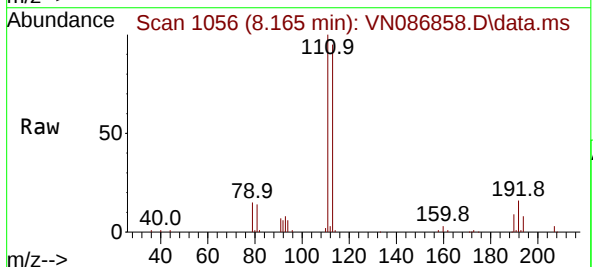
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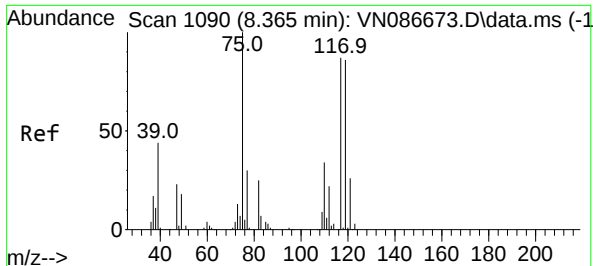
Tgt Ion:114 Resp: 418442
Ion Ratio Lower Upper
114 100
63 20.3 0.0 40.2
88 15.9 0.0 31.2



#35
Dibromofluoromethane
Concen: 52.336 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. -0.000 min
Lab File: VN086858.D
Acq: 03 Jun 2025 21:25

Tgt Ion:113 Resp: 130422
Ion Ratio Lower Upper
113 100
111 103.1 82.2 123.2
192 17.3 13.8 20.8





#36

1,1-Dichloropropene

Concen: 4.643 ug/l

RT: 8.218 min Scan# 1065

Delta R.T. -0.147 min

Lab File: VN086858.D

Acq: 03 Jun 2025 21:25

Instrument :

MSVOA_N

ClientSampleId :

TP02-MHB-WC

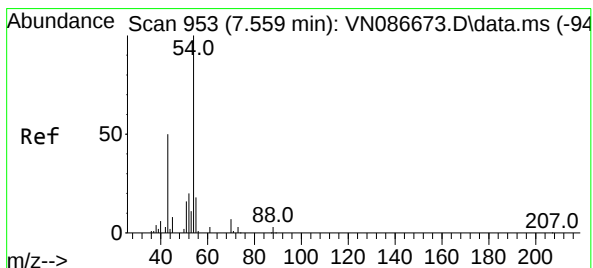
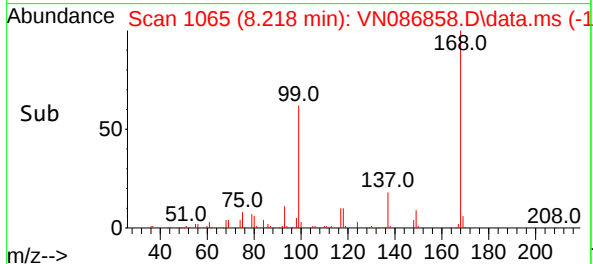
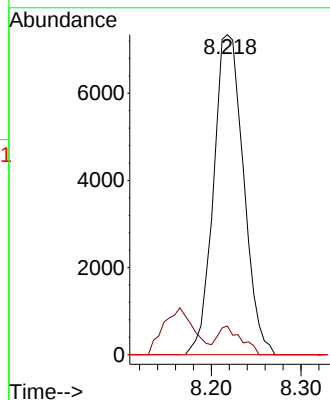
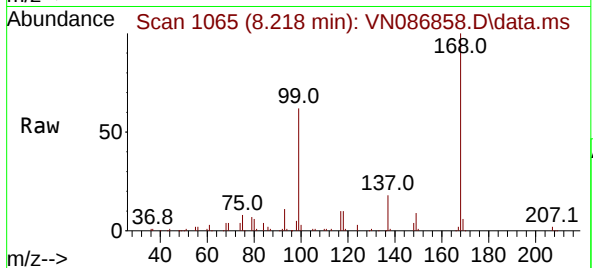
Tgt Ion: 75 Resp: 17065

Ion Ratio Lower Upper

75 100

110 6.9 17.5 52.5#

77 0.0 25.1 37.7#



#37

Ethyl Acetate

Concen: 0.317 ug/l

RT: 7.559 min Scan# 953

Delta R.T. -0.000 min

Lab File: VN086858.D

Acq: 03 Jun 2025 21:25

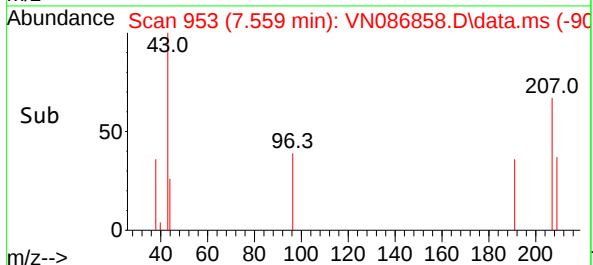
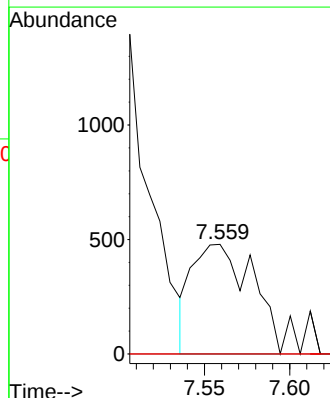
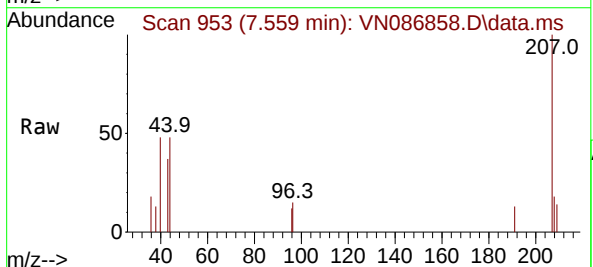
Tgt Ion: 43 Resp: 1178

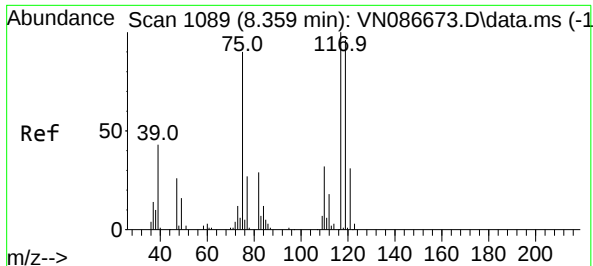
Ion Ratio Lower Upper

43 100

61 0.0 11.6 17.4#

70 0.0 9.4 14.0#

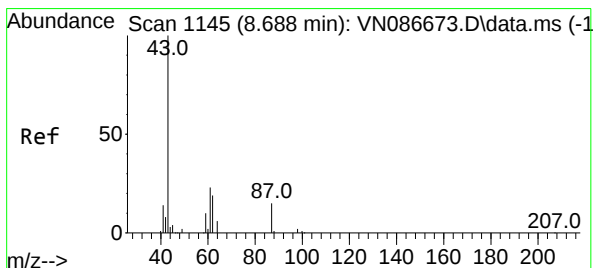
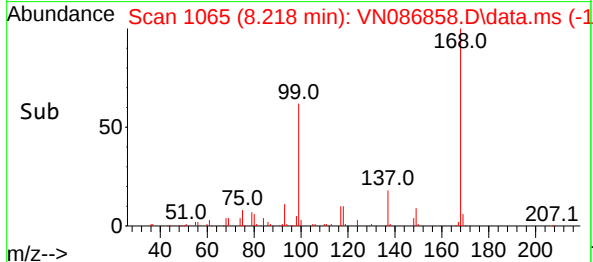
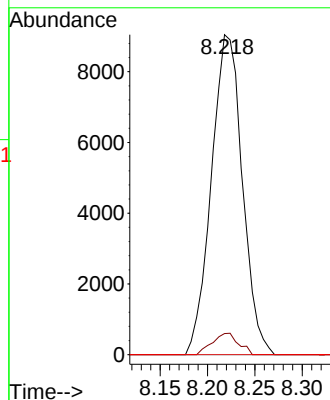
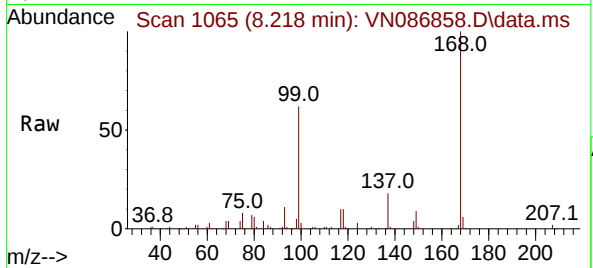




#38
Carbon Tetrachloride
Concen: 5.685 ug/l
RT: 8.218 min Scan# 1065
Delta R.T. -0.141 min
Lab File: VN086858.D
Acq: 03 Jun 2025 21:25

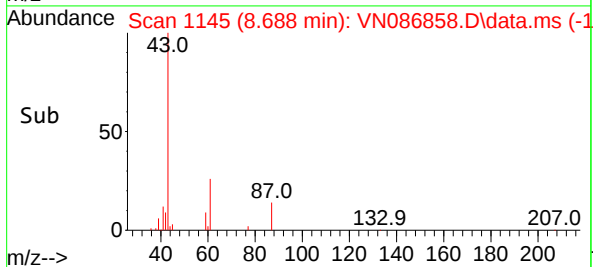
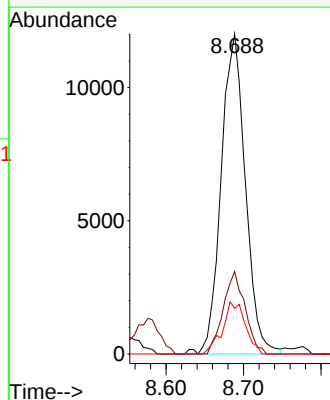
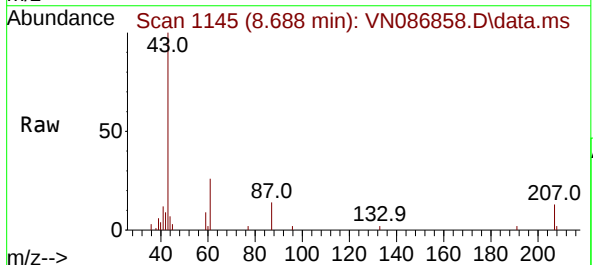
Instrument :
MSVOA_N
ClientSampleId :
TP02-MHB-WC

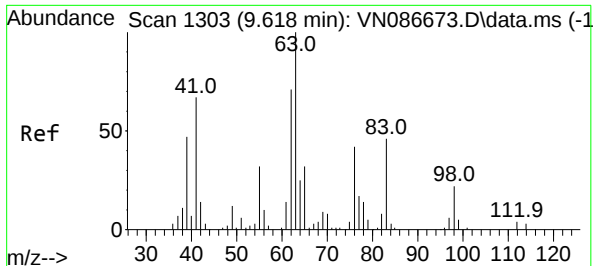
Tgt Ion:117 Resp: 20590
Ion Ratio Lower Upper
117 100
119 6.6 77.0 115.6#
121 0.0 25.0 37.6#



#43
Isopropyl Acetate
Concen: 3.507 ug/l
RT: 8.688 min Scan# 1145
Delta R.T. -0.000 min
Lab File: VN086858.D
Acq: 03 Jun 2025 21:25

Tgt Ion: 43 Resp: 26104
Ion Ratio Lower Upper
43 100
61 23.2 21.4 32.2
87 15.3 11.1 16.7





#45

1,2-Dichloropropane

Concen: 0.316 ug/l

RT: 9.741 min Scan# 1324

Delta R.T. 0.123 min

Lab File: VN086858.D

Acq: 03 Jun 2025 21:25

Instrument :

MSVOA_N

ClientSampleId :

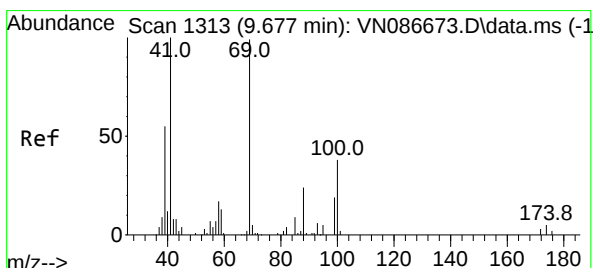
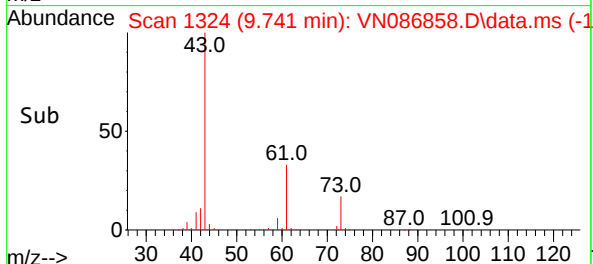
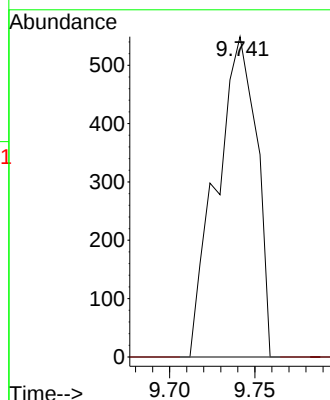
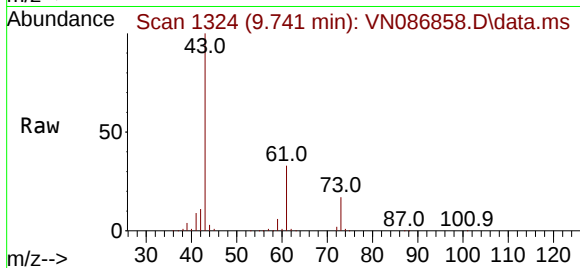
TP02-MHB-WC

Tgt Ion: 63 Resp: 901

Ion Ratio Lower Upper

63 100

65 0.0 25.8 38.6#



#48

Methyl methacrylate

Concen: 21.543 ug/l

RT: 9.741 min Scan# 1324

Delta R.T. 0.065 min

Lab File: VN086858.D

Acq: 03 Jun 2025 21:25

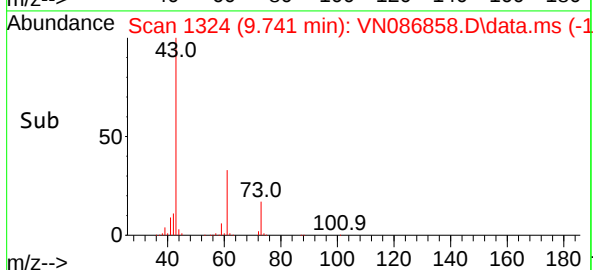
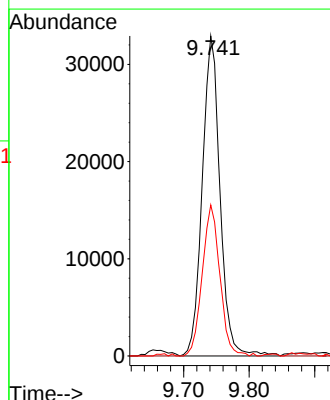
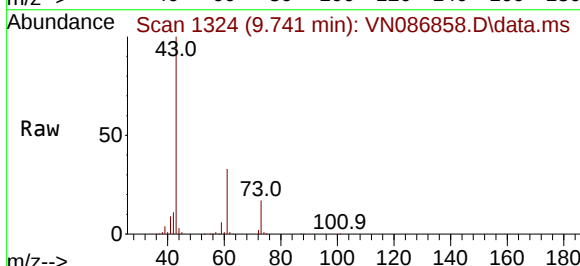
Tgt Ion: 41 Resp: 62140

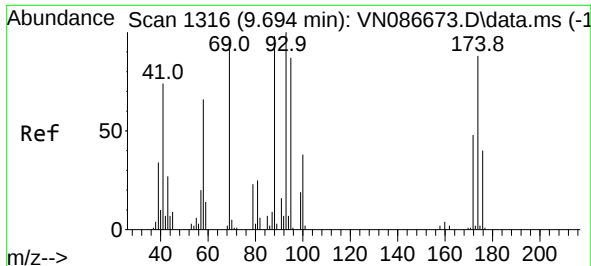
Ion Ratio Lower Upper

41 100

69 0.0 74.1 111.1#

39 46.9 44.1 66.1





#49

1,4-Dioxane

Concen: 1.375 ug/l

RT: 9.694 min Scan# 11

Delta R.T. -0.000 min

Lab File: VN086858.D

Acq: 03 Jun 2025 21:25

Instrument :

MSVOA_N

ClientSampleId :

TP02-MHB-WC

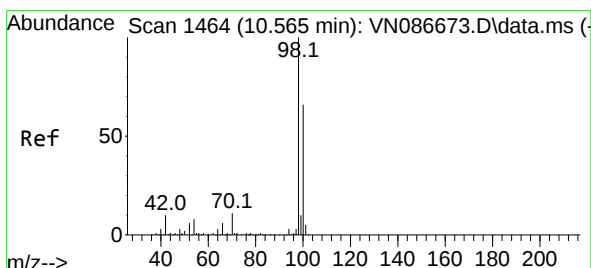
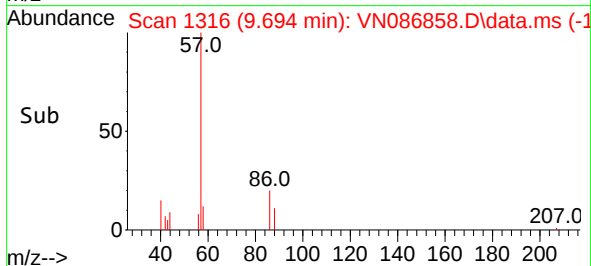
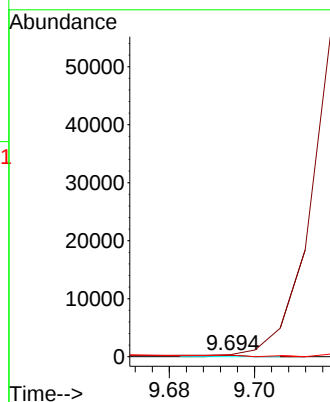
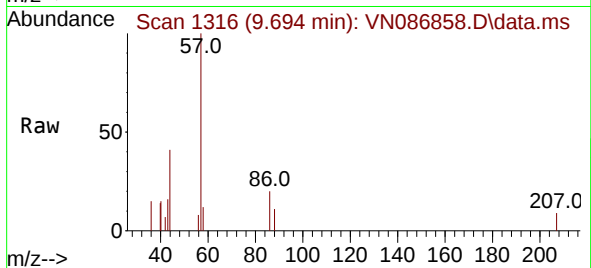
Tgt Ion: 88 Resp: 84

Ion Ratio Lower Upper

88 100

43 0.0 23.6 35.4#

58 0.0 55.3 82.9#



#50

Toluene-d8

Concen: 51.467 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. -0.000 min

Lab File: VN086858.D

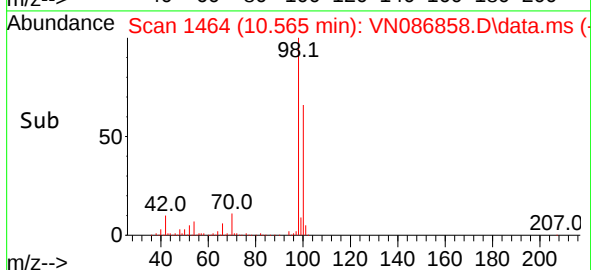
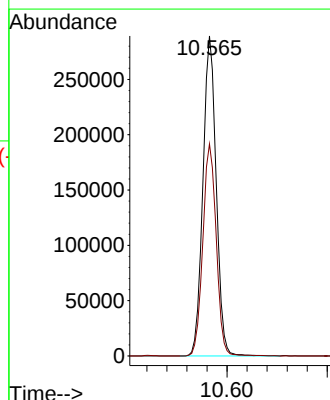
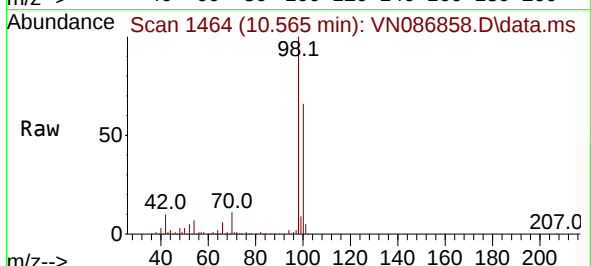
Acq: 03 Jun 2025 21:25

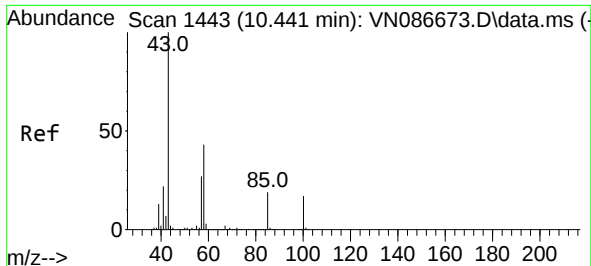
Tgt Ion: 98 Resp: 531499

Ion Ratio Lower Upper

98 100

100 66.9 52.9 79.3

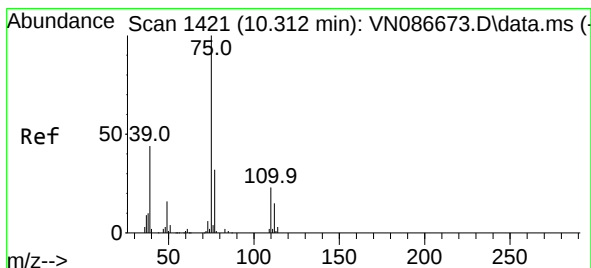
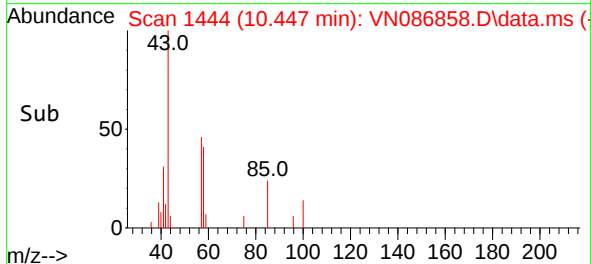
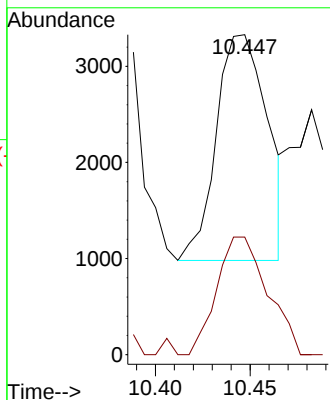
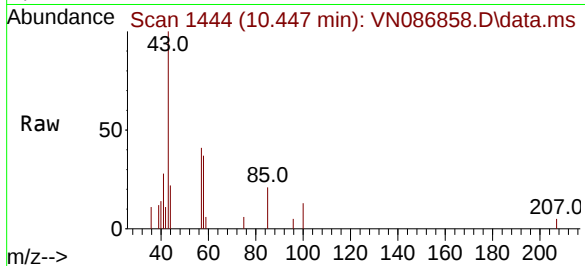




#51
4-Methyl-2-Pentanone
Concen: 1.175 ug/l
RT: 10.447 min Scan# 1443
Delta R.T. 0.006 min
Lab File: VN086858.D
Acq: 03 Jun 2025 21:25

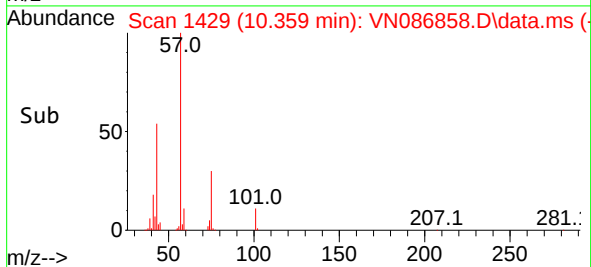
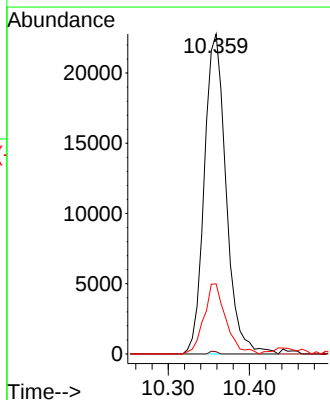
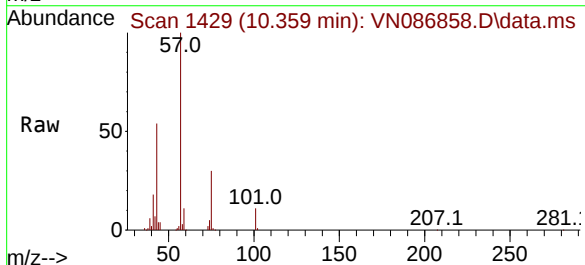
Instrument :
MSVOA_N
ClientSampleId :
TP02-MHB-WC

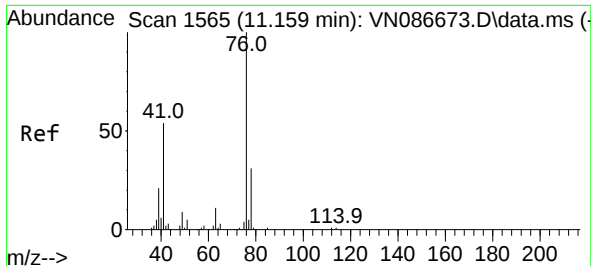
Tgt Ion: 43 Resp: 4412
Ion Ratio Lower Upper
43 100
58 51.8 33.9 50.9#



#54
cis-1,3-Dichloropropene
Concen: 9.268 ug/l
RT: 10.359 min Scan# 1429
Delta R.T. 0.047 min
Lab File: VN086858.D
Acq: 03 Jun 2025 21:25

Tgt Ion: 75 Resp: 42423
Ion Ratio Lower Upper
75 100
77 0.7 25.3 37.9#
39 21.9 35.2 52.8#





#57

1,3-Dichloropropane

Concen: 0.579 ug/l

RT: 11.212 min Scan# 1574

Delta R.T. 0.053 min

Lab File: VN086858.D

Acq: 03 Jun 2025 21:25

Instrument :

MSVOA_N

ClientSampleId :

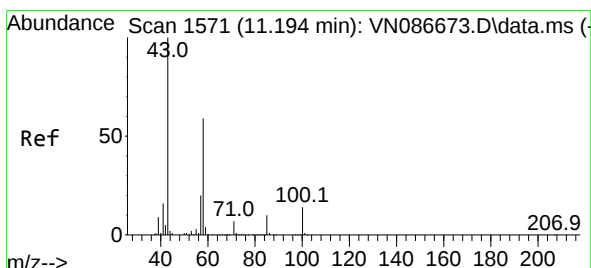
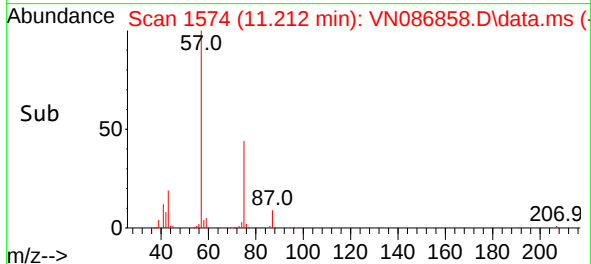
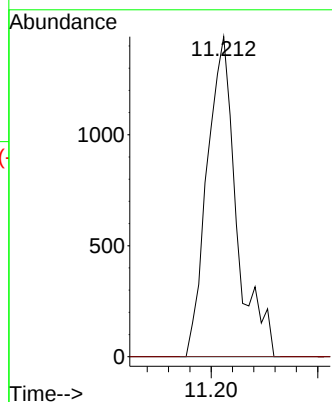
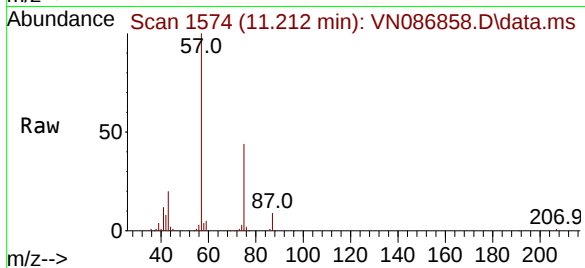
TP02-MHB-WC

Tgt Ion: 76 Resp: 2771

Ion Ratio Lower Upper

76 100

78 0.0 25.8 38.8#



#59

2-Hexanone

Concen: 10.283 ug/l

RT: 11.206 min Scan# 1573

Delta R.T. 0.012 min

Lab File: VN086858.D

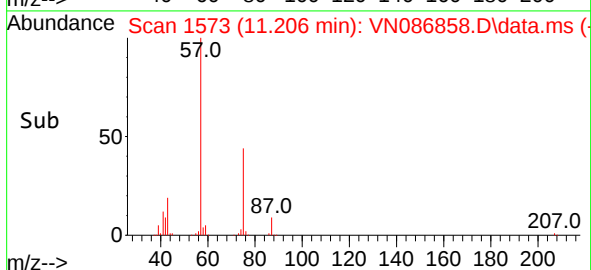
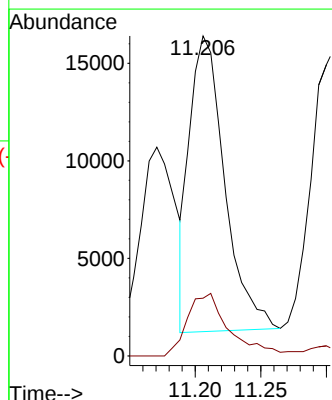
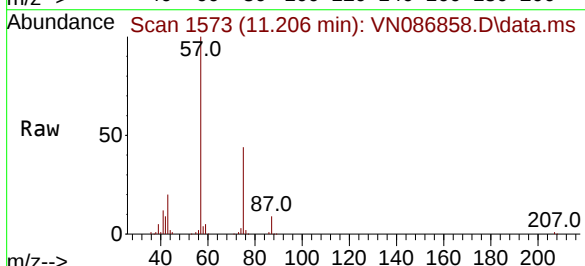
Acq: 03 Jun 2025 21:25

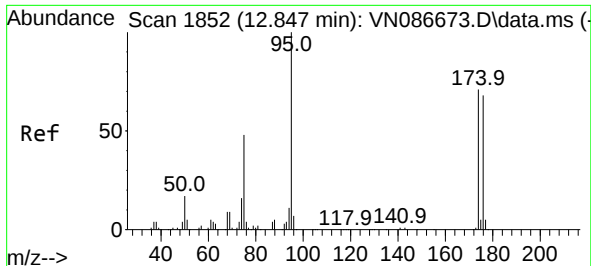
Tgt Ion: 43 Resp: 28187

Ion Ratio Lower Upper

43 100

58 25.3 29.8 89.5#

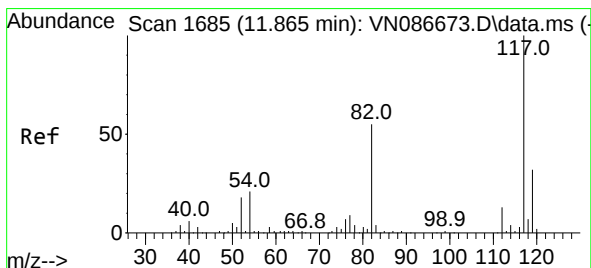
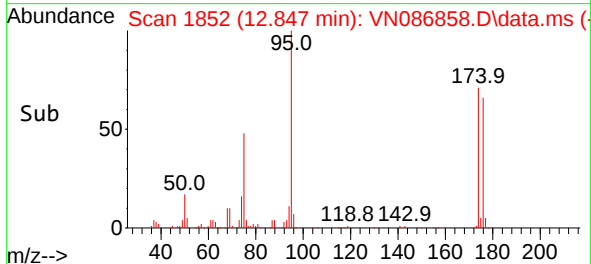
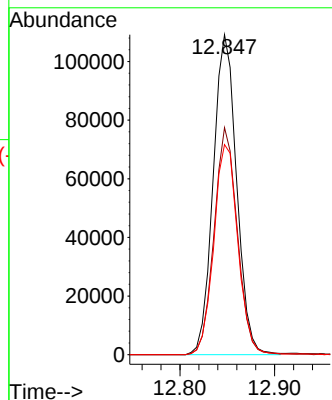
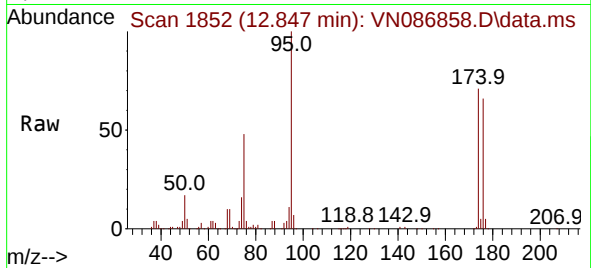




#62
4-Bromofluorobenzene
Concen: 51.446 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN086858.D
Acq: 03 Jun 2025 21:25

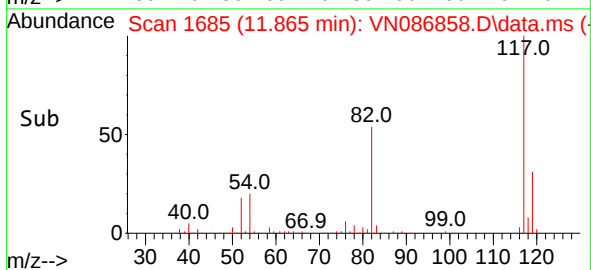
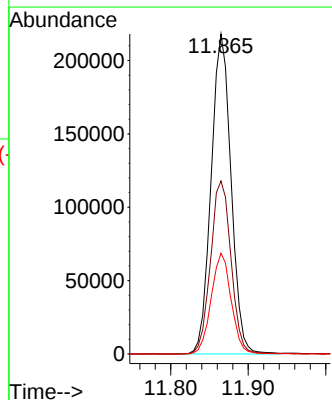
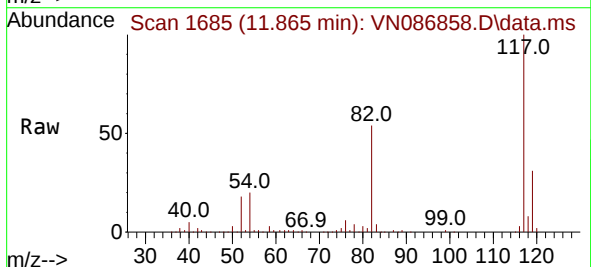
Instrument :
MSVOA_N
ClientSampleId :
TP02-MHB-WC

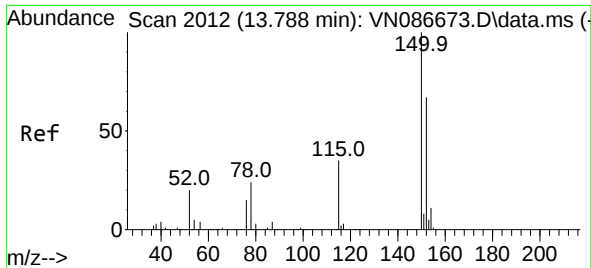
Tgt Ion: 95 Resp: 187591
Ion Ratio Lower Upper
95 100
174 70.4 0.0 145.4
176 67.5 0.0 137.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. -0.000 min
Lab File: VN086858.D
Acq: 03 Jun 2025 21:25

Tgt Ion: 117 Resp: 389363
Ion Ratio Lower Upper
117 100
82 54.0 44.2 66.2
119 31.5 25.4 38.2

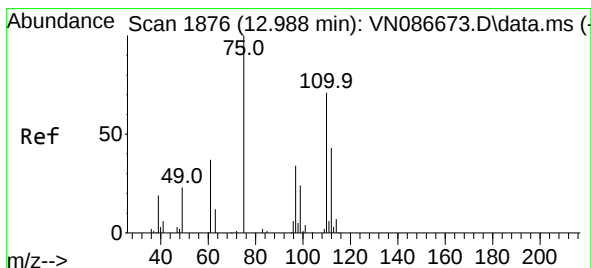
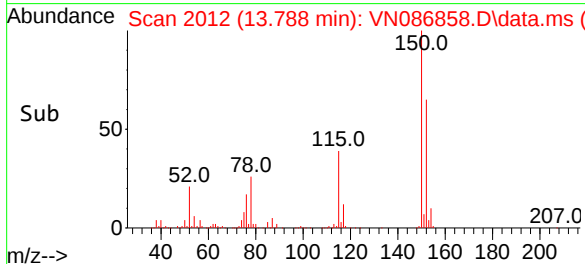
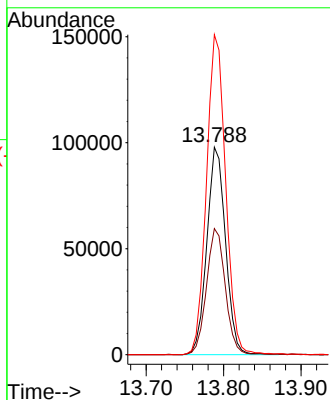
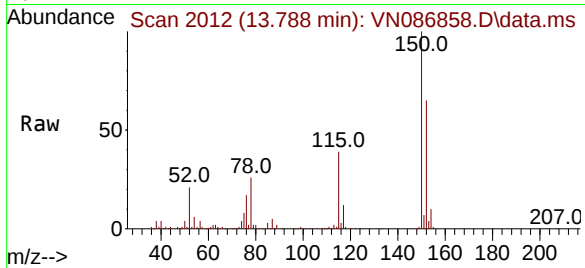




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.788 min Scan# 20
 Delta R.T. -0.000 min
 Lab File: VN086858.D
 Acq: 03 Jun 2025 21:25

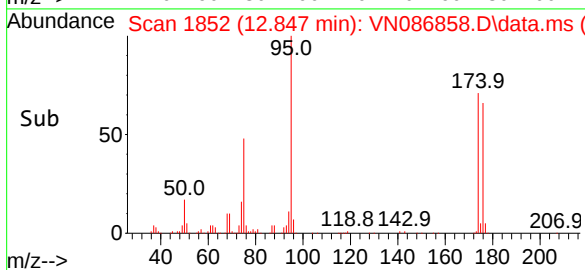
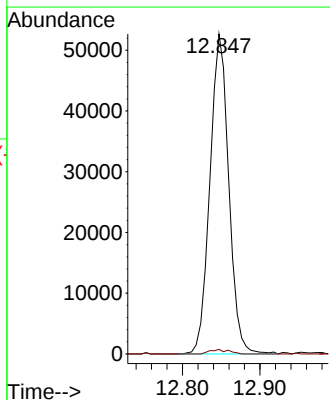
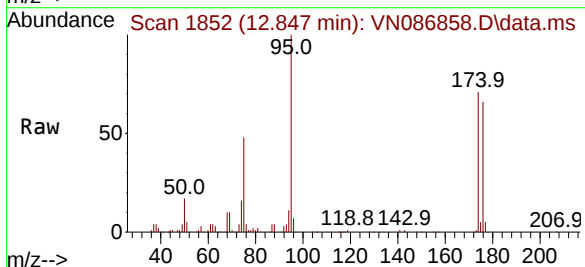
Instrument :
 MSVOA_N
 ClientSampleId :
 TP02-MHB-WC

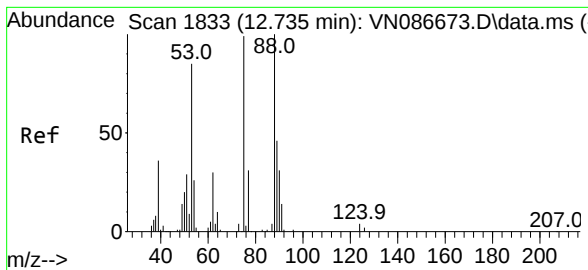
Tgt Ion:152 Resp: 164227
 Ion Ratio Lower Upper
 152 100
 115 61.2 30.0 90.1
 150 158.2 0.0 347.8



#76
 1,2,3-Trichloropropane
 Concen: 23.958 ug/l
 RT: 12.847 min Scan# 1852
 Delta R.T. -0.141 min
 Lab File: VN086858.D
 Acq: 03 Jun 2025 21:25

Tgt Ion: 75 Resp: 88984
 Ion Ratio Lower Upper
 75 100
 77 1.4 96.0 288.1#





#81
 trans-1,4-Dichloro-2-butene
 Concen: 60.462 ug/l
 RT: 12.847 min Scan# 11
 Delta R.T. 0.112 min
 Lab File: VN086858.D
 Acq: 03 Jun 2025 21:25

Instrument :
 MSVOA_N
 ClientSampleId :
 TP02-MHB-WC

Tgt Ion: 75 Resp: 88984
 Ion Ratio Lower Upper
 75 100
 53 0.0 70.4 105.6#
 89 0.0 32.4 48.6#

