

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN060325\
 Data File : VN086857.D
 Acq On : 03 Jun 2025 21:00
 Operator : JC\MD
 Sample : Q2177-07
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 B-202-SB01

Quant Time: Jun 04 02:07:39 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)

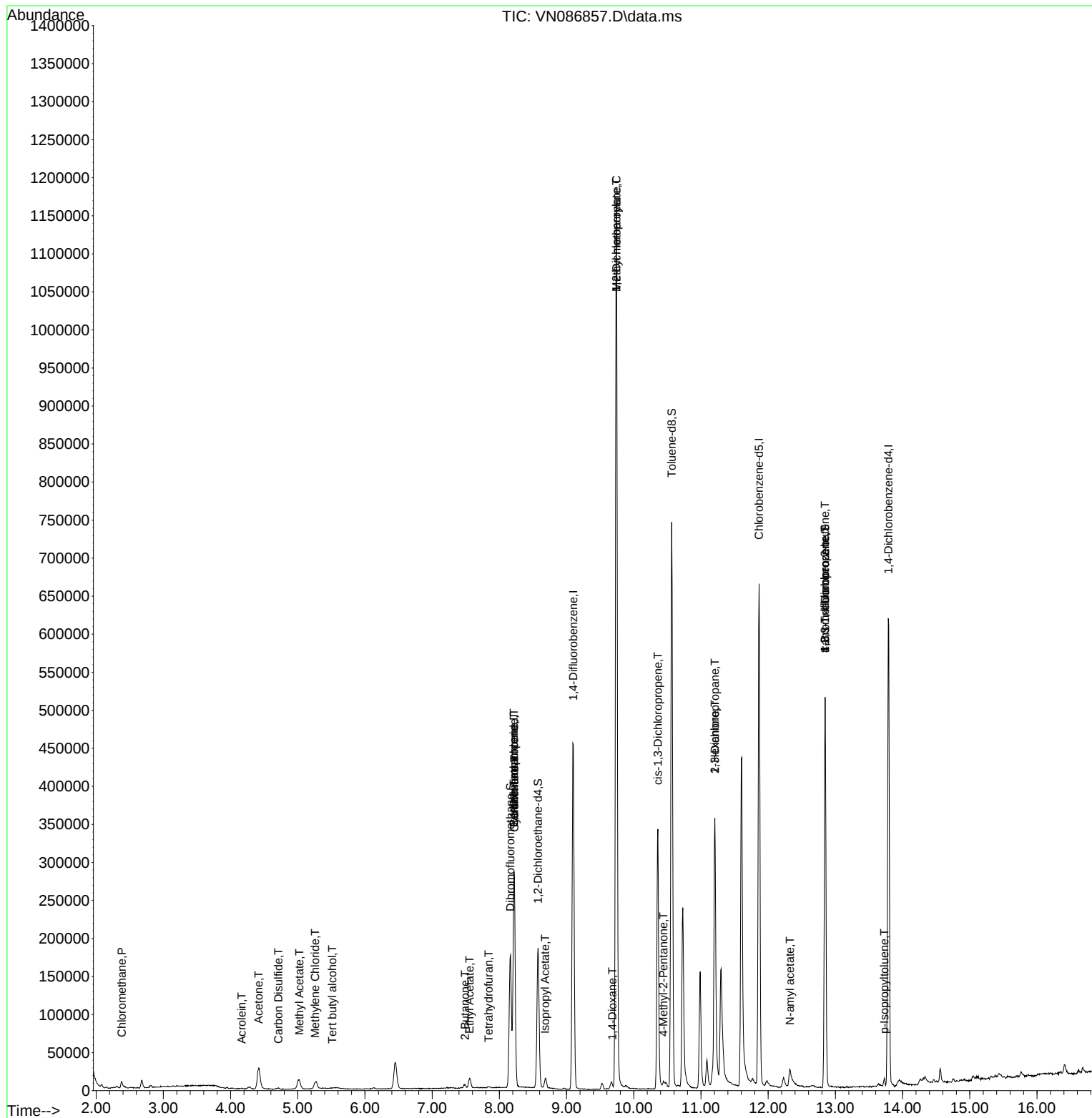
Internal Standards						
1) Pentafluorobenzene	8.218	168	214739	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	418395	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	402557	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	183854	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	152863	51.516	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 103.040%			
35) Dibromofluoromethane	8.165	113	132479	53.168	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 106.340%			
50) Toluene-d8	10.565	98	536776	51.984	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 103.960%			
62) 4-Bromofluorobenzene	12.847	95	198933	54.562	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 109.120%			
Target Compounds					Qvalue	
3) Chloromethane	2.383	50	15264	4.352	ug/l	93
11) Tert butyl alcohol	5.512	59	791	1.464	ug/l #	73
13) Acrolein	4.165	56	596	1.032	ug/l #	40
16) Acetone	4.418	43	55602	50.093	ug/l	96
17) Carbon Disulfide	4.712	76	2572	0.388	ug/l #	75
18) Methyl Acetate	5.024	43	27672	8.907	ug/l	99
20) Methylene Chloride	5.259	84	4380	1.495	ug/l	91
25) 2-Butanone	7.488	43	7792	4.543	ug/l	92
29) Tetrahydrofuran	7.841	42	1081	0.966	ug/l #	61
31) Cyclohexane	8.224	56	4111	0.923	ug/l #	1
36) 1,1-Dichloropropene	8.218	75	17935	4.880	ug/l #	49
37) Ethyl Acetate	7.559	43	20063	5.404	ug/l	99
38) Carbon Tetrachloride	8.218	117	22164	6.120	ug/l #	15
43) Isopropyl Acetate	8.683	43	15113	2.031	ug/l	94
45) 1,2-Dichloropropane	9.741	63	1679	0.589	ug/l #	42
48) Methyl methacrylate	9.741	41	99172	34.386	ug/l #	35
49) 1,4-Dioxane	9.682	88	54	0.884	ug/l #	1
51) 4-Methyl-2-Pentanone	10.441	43	6819	1.817	ug/l #	84
54) cis-1,3-Dichloropropene	10.359	75	72898	15.928	ug/l #	56
57) 1,3-Dichloropropane	11.206	76	4502	0.940	ug/l #	42
59) 2-Hexanone	11.206	43	71402	26.051	ug/l #	45
74) N-amyl acetate	12.323	43	10759	1.813	ug/l #	51
76) 1,2,3-Trichloropropane	12.847	75	94056	22.620	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	94056	57.086	ug/l #	15
86) p-Isopropyltoluene	13.729	119	6113	0.561	ug/l	95

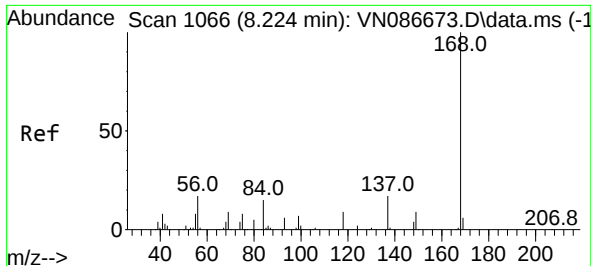
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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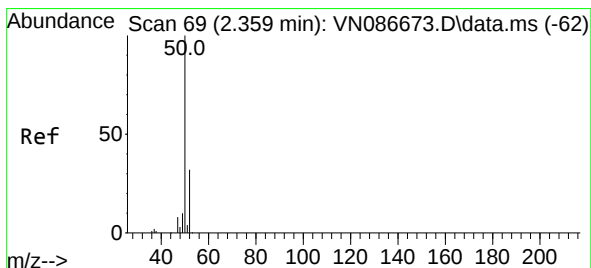
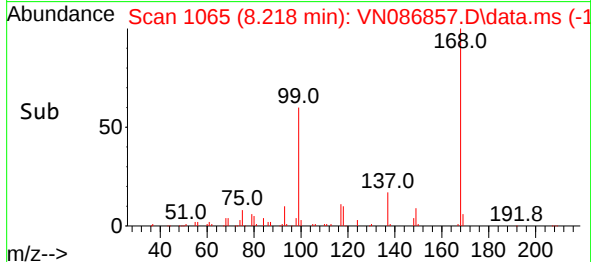
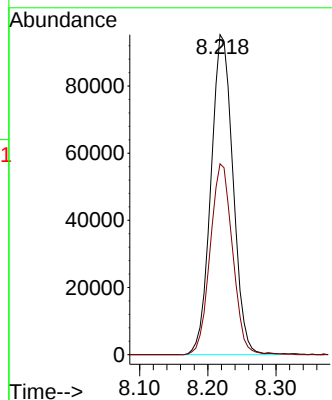
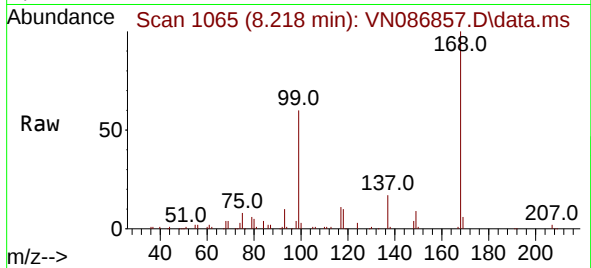




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.218 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN086857.D
Acq: 03 Jun 2025 21:00

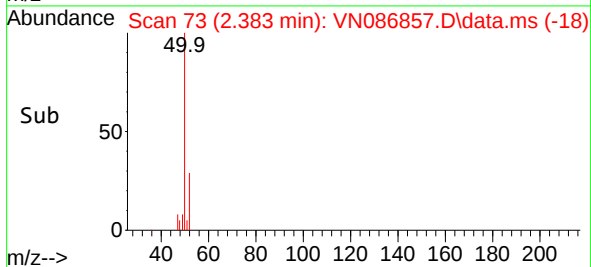
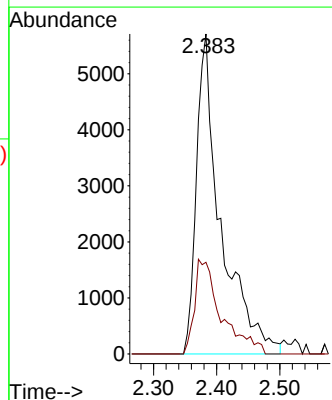
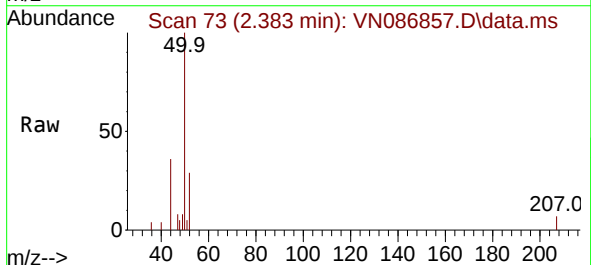
Instrument :
MSVOA_N
ClientSampleId :
B-202-SB01

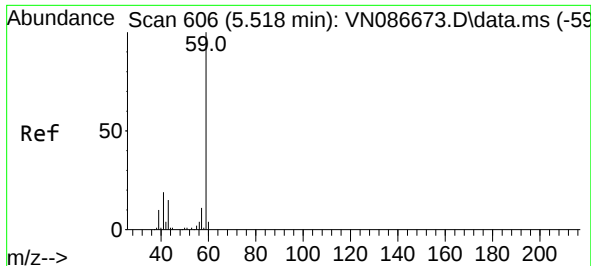
Tgt Ion:168 Resp: 214739
Ion Ratio Lower Upper
168 100
99 59.6 47.0 70.4



#3
Chloromethane
Concen: 4.352 ug/l
RT: 2.383 min Scan# 73
Delta R.T. 0.023 min
Lab File: VN086857.D
Acq: 03 Jun 2025 21:00

Tgt Ion: 50 Resp: 15264
Ion Ratio Lower Upper
50 100
52 28.6 25.9 38.9

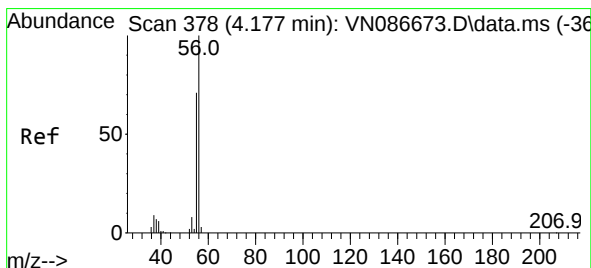
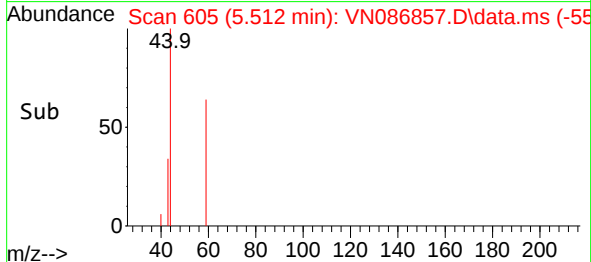
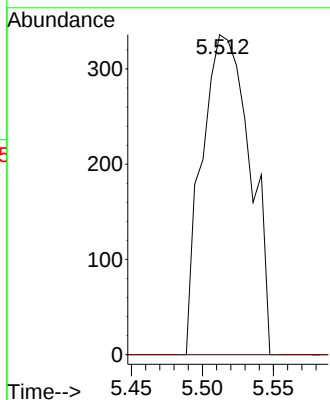
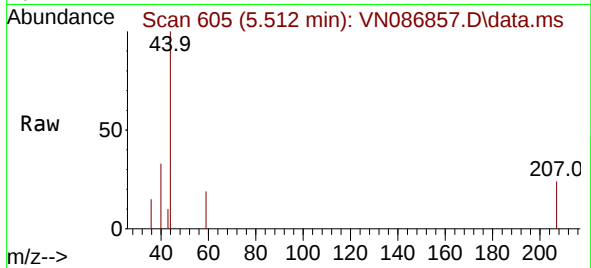




#11
Tert butyl alcohol
Concen: 1.464 ug/l
RT: 5.512 min Scan# 606
Delta R.T. -0.006 min
Lab File: VN086857.D
Acq: 03 Jun 2025 21:00

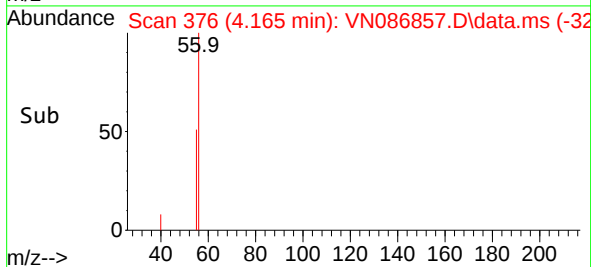
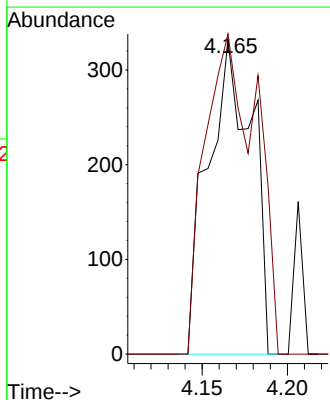
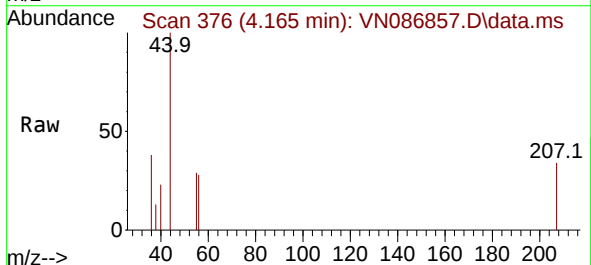
Instrument :
MSVOA_N
ClientSampleId :
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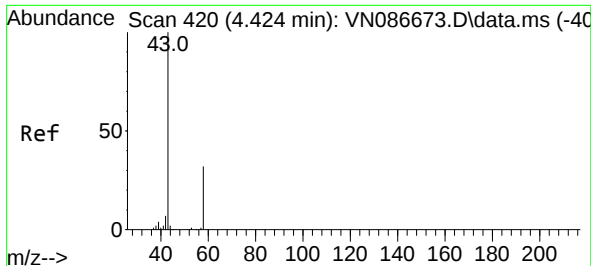
Tgt Ion: 59 Resp: 791
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.2#



#13
Acrolein
Concen: 1.032 ug/l
RT: 4.165 min Scan# 376
Delta R.T. -0.012 min
Lab File: VN086857.D
Acq: 03 Jun 2025 21:00

Tgt Ion: 56 Resp: 596
Ion Ratio Lower Upper
56 100
55 118.8 55.7 83.5#

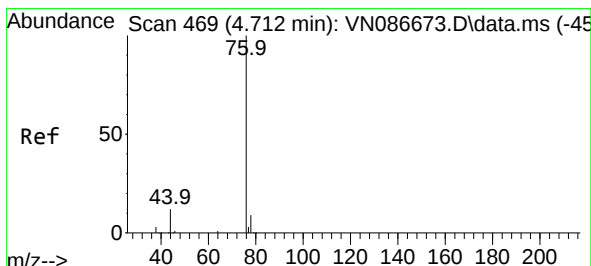
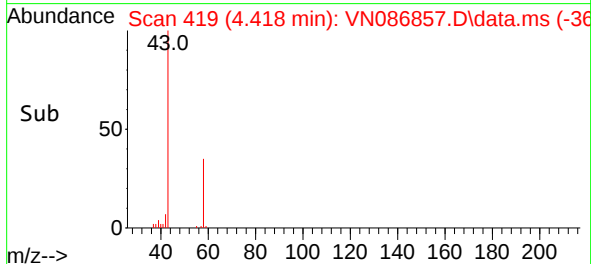
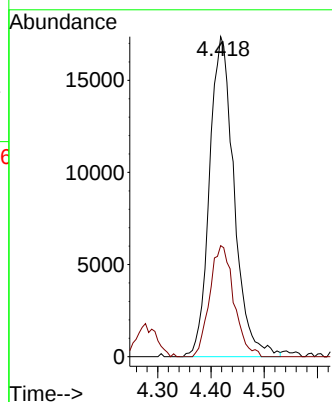
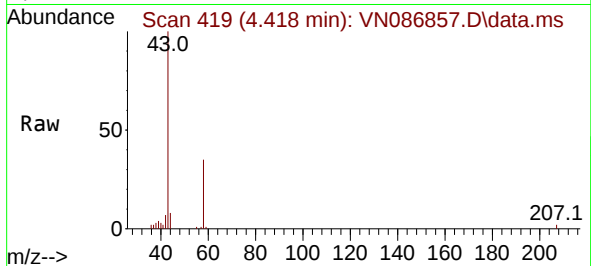




#16
Acetone
Concen: 50.093 ug/l
RT: 4.418 min Scan# 419
Delta R.T. -0.006 min
Lab File: VN086857.D
Acq: 03 Jun 2025 21:00

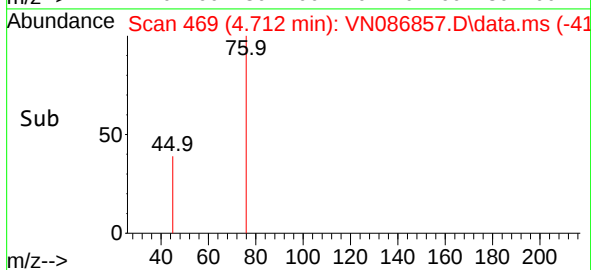
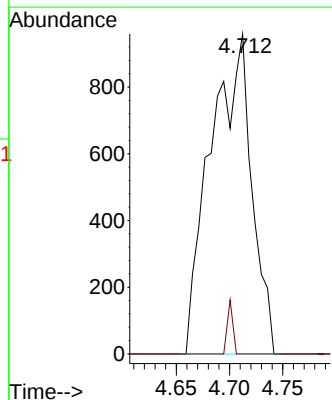
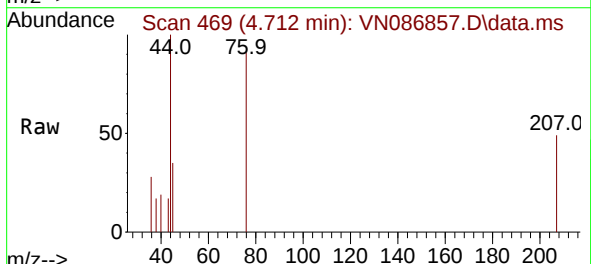
Instrument :
MSVOA_N
ClientSampleId :
B-202-SB01

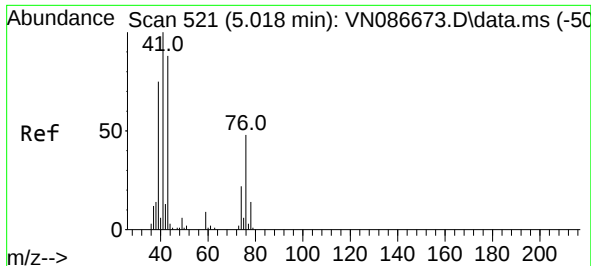
Tgt Ion: 43 Resp: 55602
Ion Ratio Lower Upper
43 100
58 34.7 25.8 38.6



#17
Carbon Disulfide
Concen: 0.388 ug/l
RT: 4.712 min Scan# 469
Delta R.T. -0.000 min
Lab File: VN086857.D
Acq: 03 Jun 2025 21:00

Tgt Ion: 76 Resp: 2572
Ion Ratio Lower Upper
76 100
78 0.0 7.3 10.9#

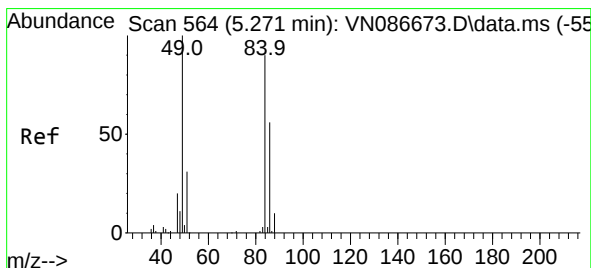
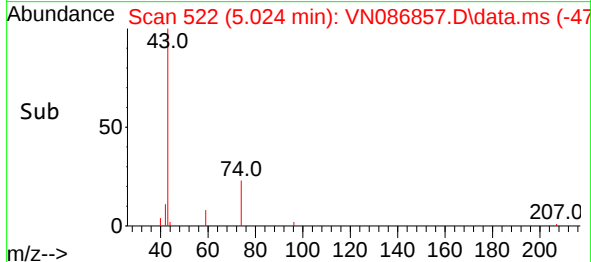
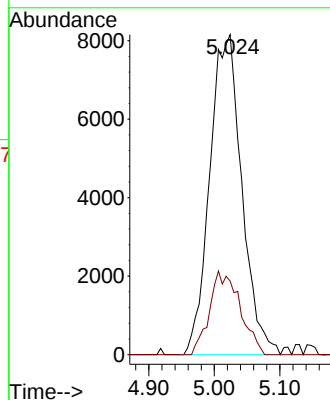
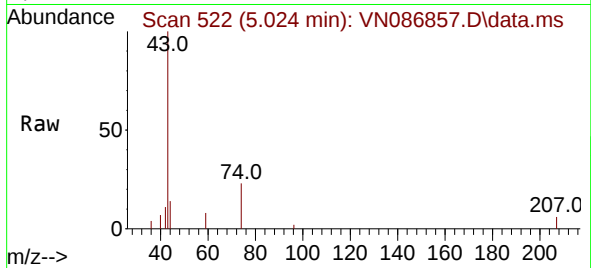




#18
Methyl Acetate
Concen: 8.907 ug/l
RT: 5.024 min Scan# 51
Delta R.T. 0.006 min
Lab File: VN086857.D
Acq: 03 Jun 2025 21:00

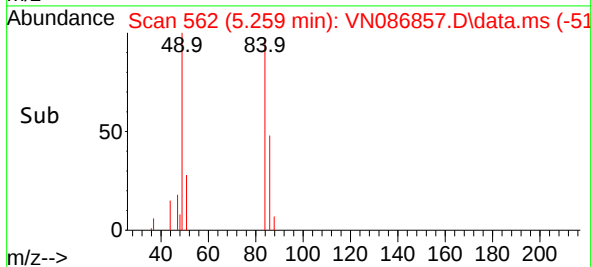
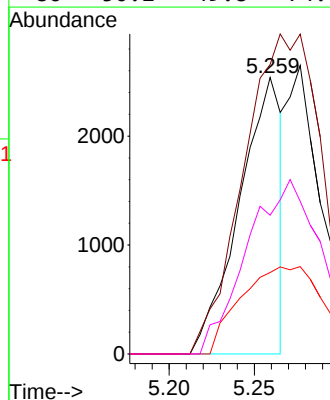
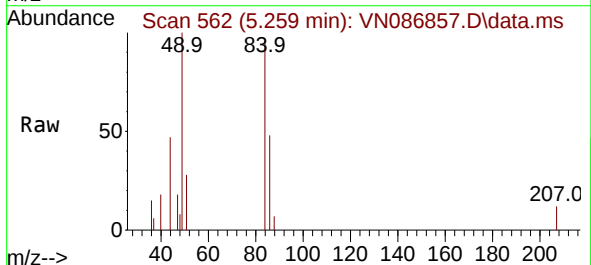
Instrument :
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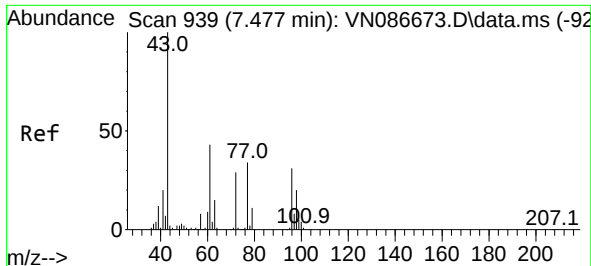
Tgt Ion: 43 Resp: 27672
Ion Ratio Lower Upper
43 100
74 24.9 20.5 30.7



#20
Methylene Chloride
Concen: 1.495 ug/l
RT: 5.259 min Scan# 562
Delta R.T. -0.012 min
Lab File: VN086857.D
Acq: 03 Jun 2025 21:00

Tgt Ion: 84 Resp: 4380
Ion Ratio Lower Upper
84 100
49 104.6 88.8 133.2
51 29.5 27.8 41.6
86 50.2 49.8 74.6

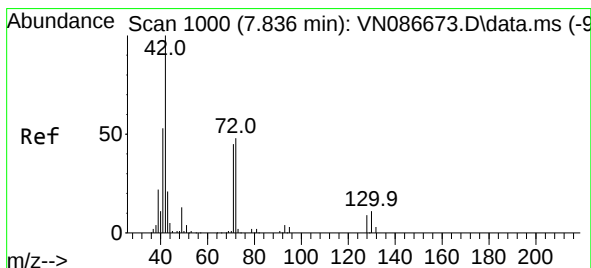
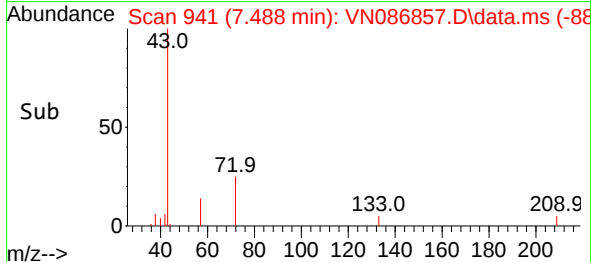
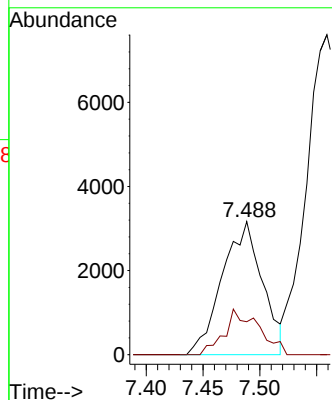
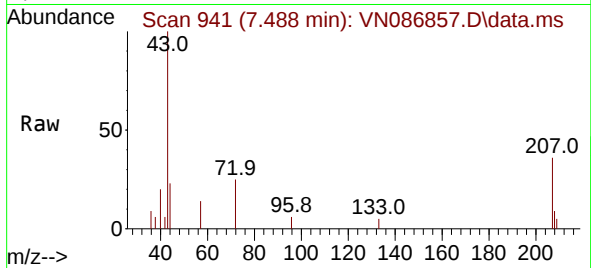




#25
2-Butanone
Concen: 4.543 ug/l
RT: 7.488 min Scan# 941
Delta R.T. 0.012 min
Lab File: VN086857.D
Acq: 03 Jun 2025 21:00

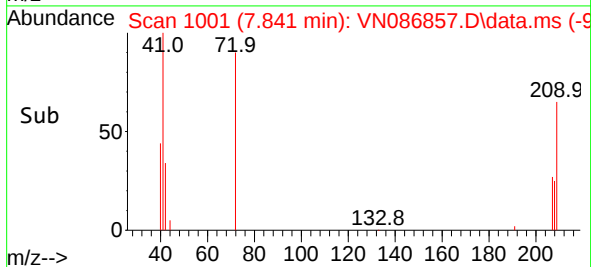
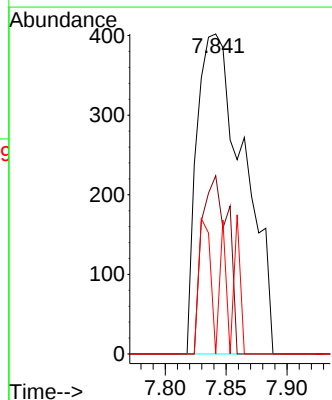
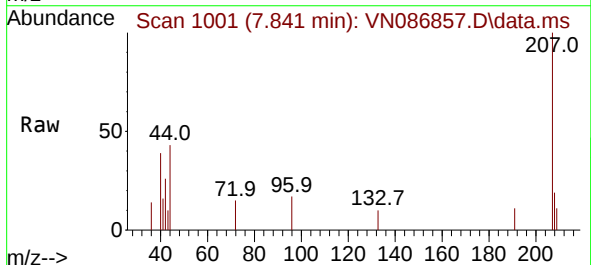
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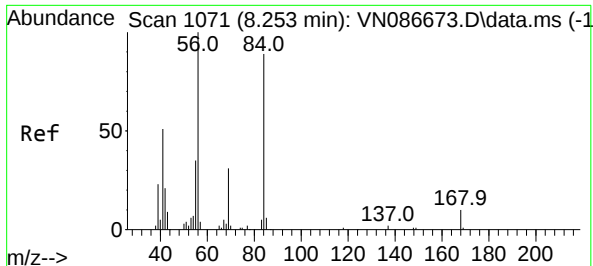
Tgt Ion: 43 Resp: 7792
Ion Ratio Lower Upper
43 100
72 24.7 23.1 34.7



#29
Tetrahydrofuran
Concen: 0.966 ug/l
RT: 7.841 min Scan# 1001
Delta R.T. 0.006 min
Lab File: VN086857.D
Acq: 03 Jun 2025 21:00

Tgt Ion: 42 Resp: 1081
Ion Ratio Lower Upper
42 100
72 30.6 38.7 58.1#
71 10.5 36.2 54.4#

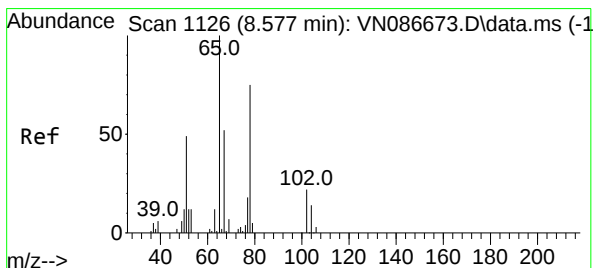
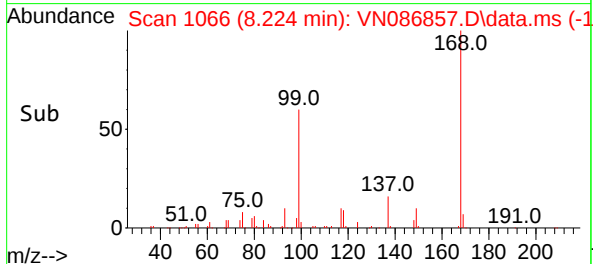
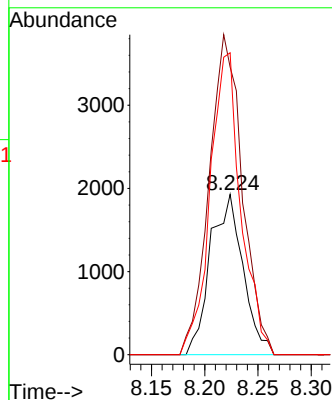
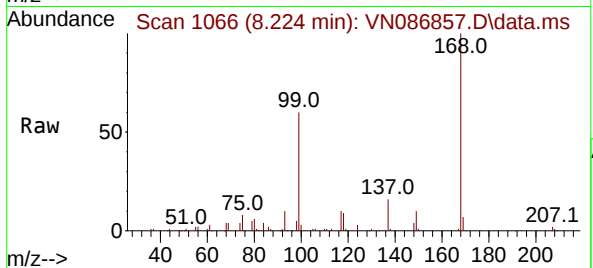




#31
Cyclohexane
Concen: 0.923 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.029 min
Lab File: VN086857.D
Acq: 03 Jun 2025 21:00

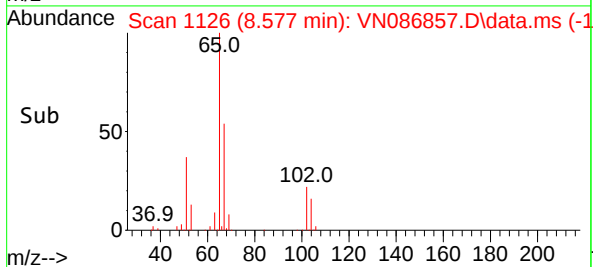
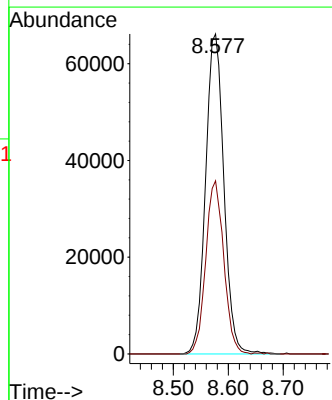
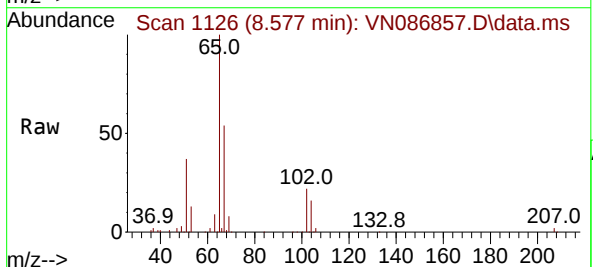
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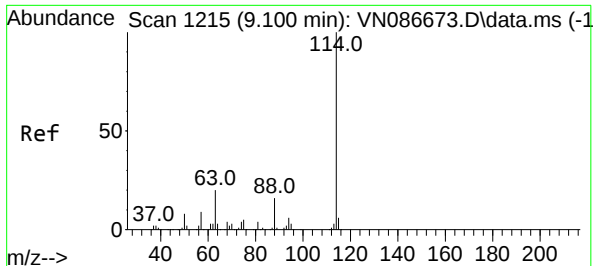
Tgt Ion: 56 Resp: 4111
Ion Ratio Lower Upper
56 100
69 179.5 25.0 37.6#
84 188.4 71.0 106.4#



#33
1,2-Dichloroethane-d4
Concen: 51.516 ug/l
RT: 8.577 min Scan# 1126
Delta R.T. -0.000 min
Lab File: VN086857.D
Acq: 03 Jun 2025 21:00

Tgt Ion: 65 Resp: 152863
Ion Ratio Lower Upper
65 100
67 53.3 0.0 106.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN086857.D

Acq: 03 Jun 2025 21:00

Instrument :

MSVOA_N

ClientSampleId :

B-202-SB01

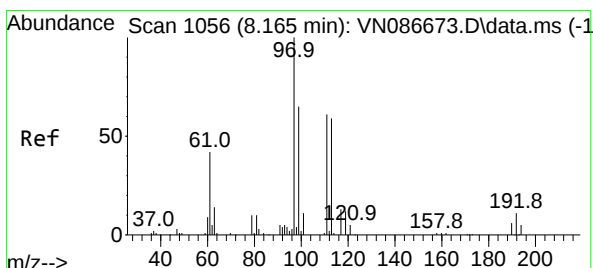
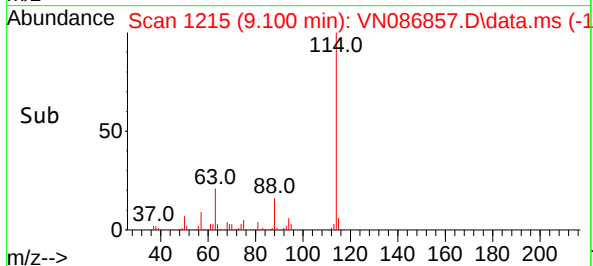
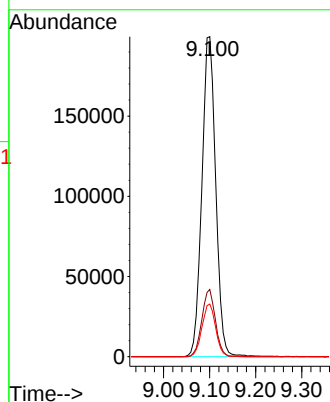
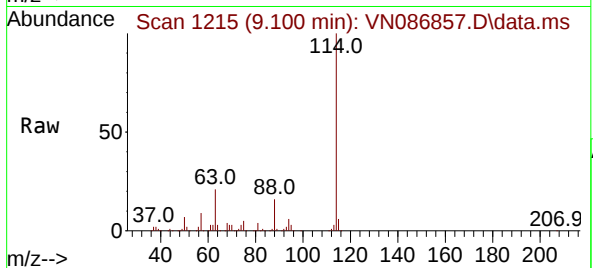
Tgt Ion:114 Resp: 418395

Ion Ratio Lower Upper

114 100

63 21.0 0.0 40.2

88 16.5 0.0 31.2



#35

Dibromofluoromethane

Concen: 53.168 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. -0.000 min

Lab File: VN086857.D

Acq: 03 Jun 2025 21:00

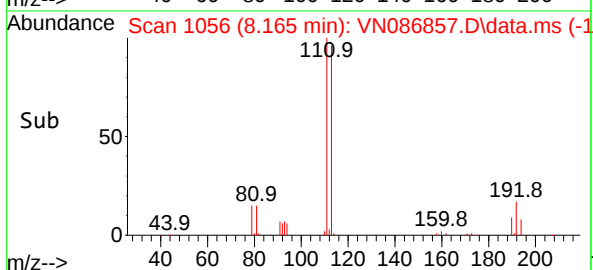
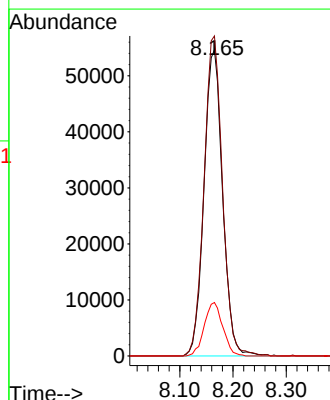
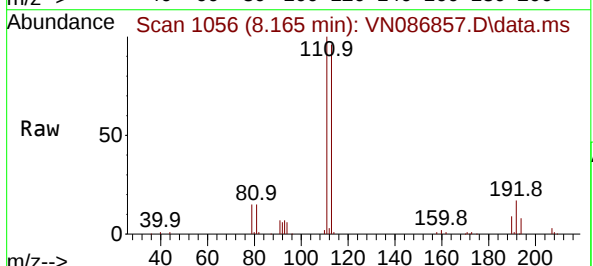
Tgt Ion:113 Resp: 132479

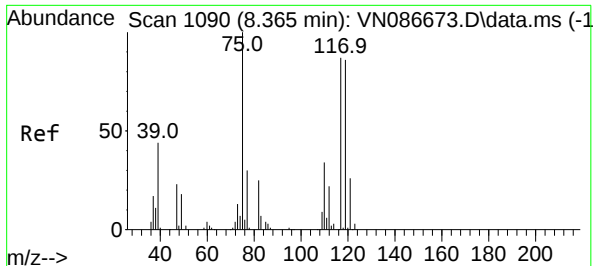
Ion Ratio Lower Upper

113 100

111 103.7 82.2 123.2

192 17.4 13.8 20.8

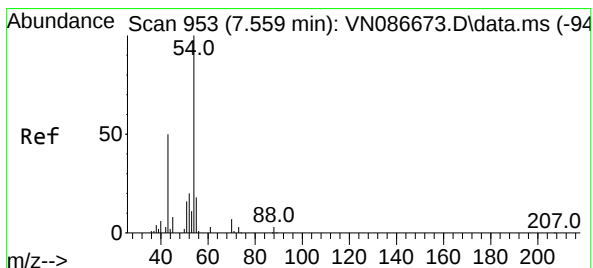
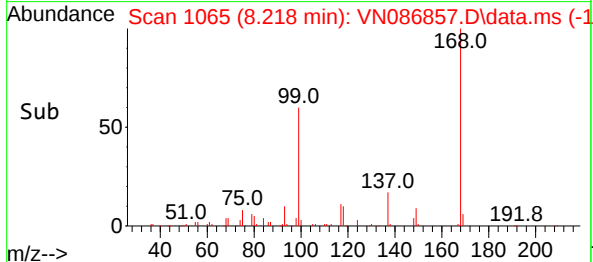
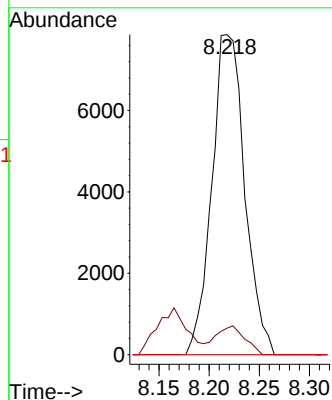
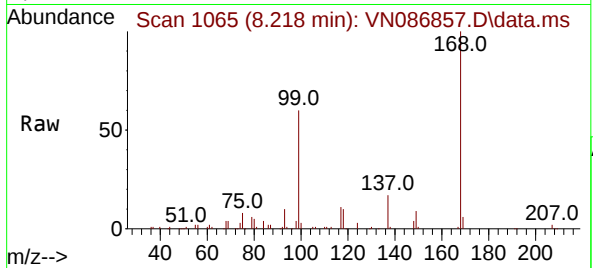




#36
1,1-Dichloropropene
Concen: 4.880 ug/l
RT: 8.218 min Scan# 1065
Delta R.T. -0.147 min
Lab File: VN086857.D
Acq: 03 Jun 2025 21:00

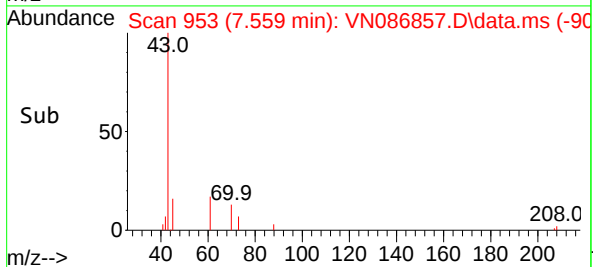
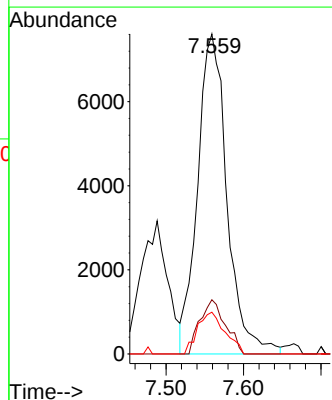
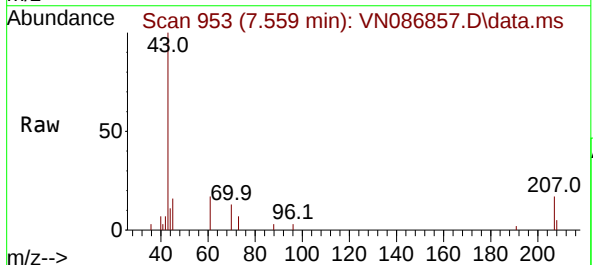
Instrument :
MSVOA_N
ClientSampleId :
B-202-SB01

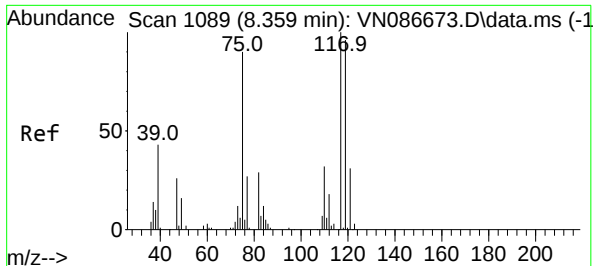
Tgt Ion: 75 Resp: 17935
Ion Ratio Lower Upper
75 100
110 8.0 17.5 52.5#
77 0.0 25.1 37.7#



#37
Ethyl Acetate
Concen: 5.404 ug/l
RT: 7.559 min Scan# 953
Delta R.T. -0.000 min
Lab File: VN086857.D
Acq: 03 Jun 2025 21:00

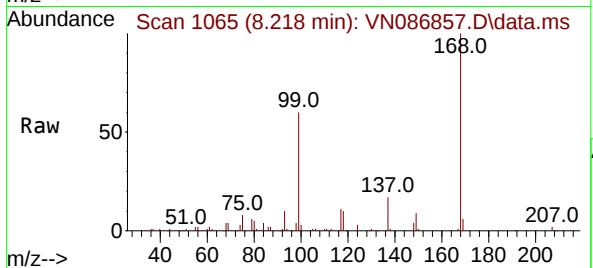
Tgt Ion: 43 Resp: 20063
Ion Ratio Lower Upper
43 100
61 14.7 11.6 17.4
70 12.1 9.4 14.0



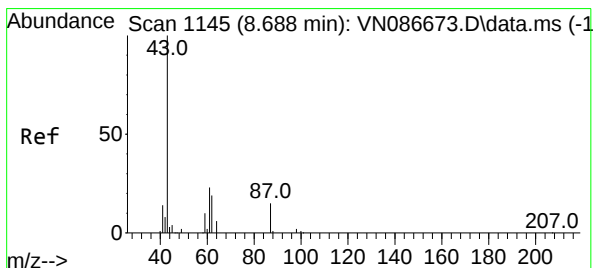
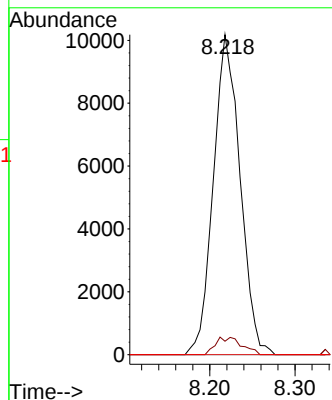
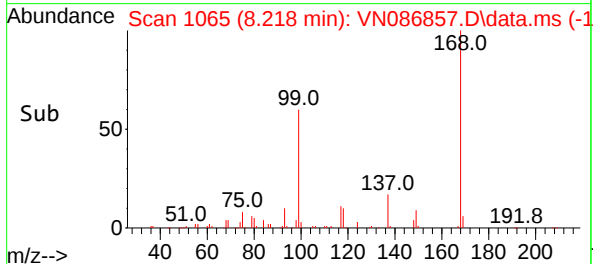


#38
Carbon Tetrachloride
Concen: 6.120 ug/l
RT: 8.218 min Scan# 1065
Delta R.T. -0.141 min
Lab File: VN086857.D
Acq: 03 Jun 2025 21:00

Instrument :
MSVOA_N
ClientSampleId :
B-202-SB01

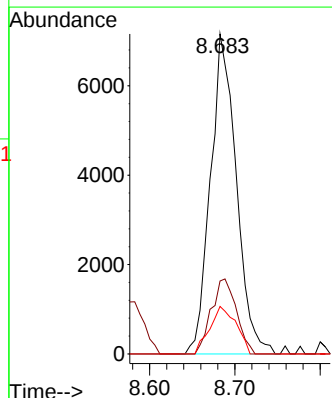
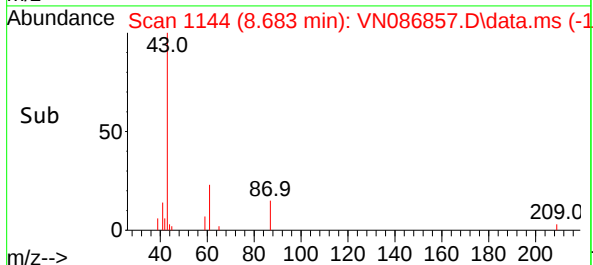
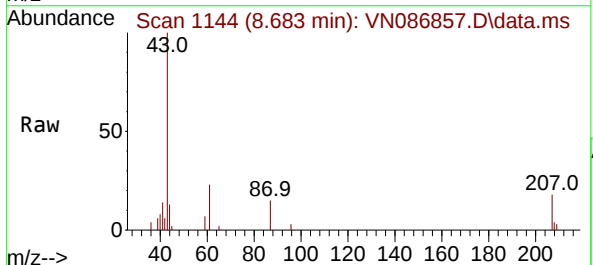


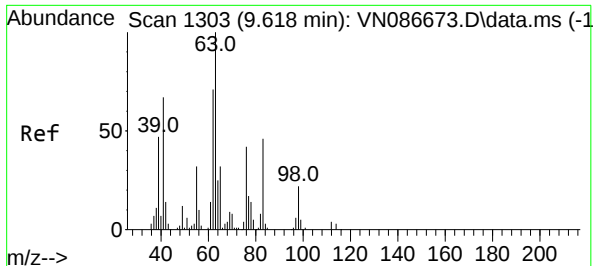
Tgt Ion:117 Resp: 22164
Ion Ratio Lower Upper
117 100
119 4.2 77.0 115.6#
121 0.0 25.0 37.6#



#43
Isopropyl Acetate
Concen: 2.031 ug/l
RT: 8.683 min Scan# 1144
Delta R.T. -0.006 min
Lab File: VN086857.D
Acq: 03 Jun 2025 21:00

Tgt Ion: 43 Resp: 15113
Ion Ratio Lower Upper
43 100
61 22.7 21.4 32.2
87 15.1 11.1 16.7





#45

1,2-Dichloropropane

Concen: 0.589 ug/l

RT: 9.741 min Scan# 1324

Delta R.T. 0.123 min

Lab File: VN086857.D

Acq: 03 Jun 2025 21:00

Instrument :

MSVOA_N

ClientSampleId :

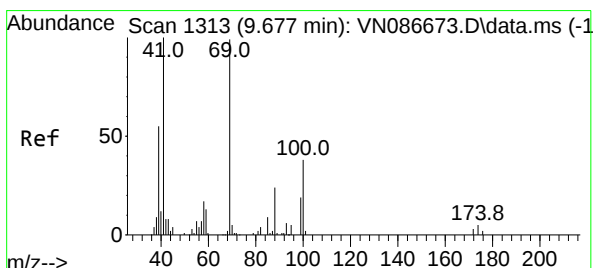
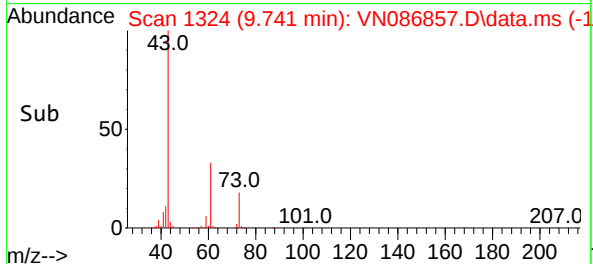
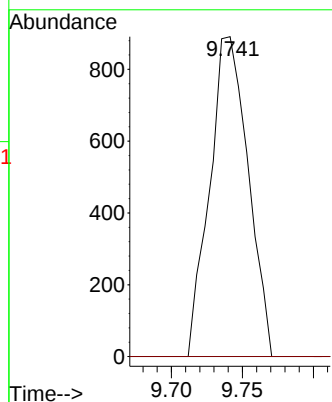
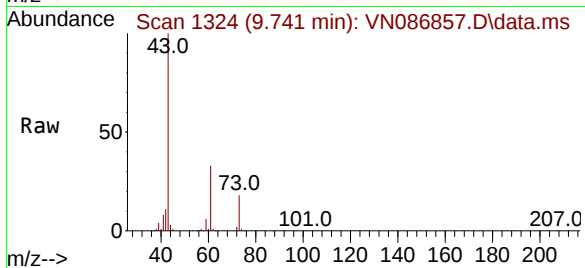
B-202-SB01

Tgt Ion: 63 Resp: 1679

Ion Ratio Lower Upper

63 100

65 0.0 25.8 38.6#



#48

Methyl methacrylate

Concen: 34.386 ug/l

RT: 9.741 min Scan# 1324

Delta R.T. 0.065 min

Lab File: VN086857.D

Acq: 03 Jun 2025 21:00

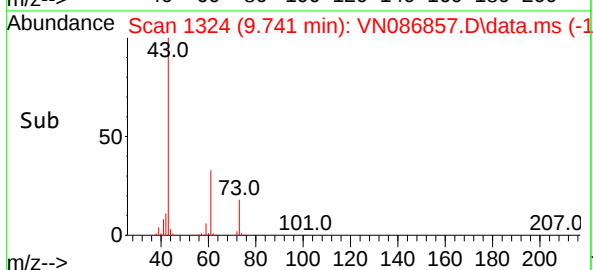
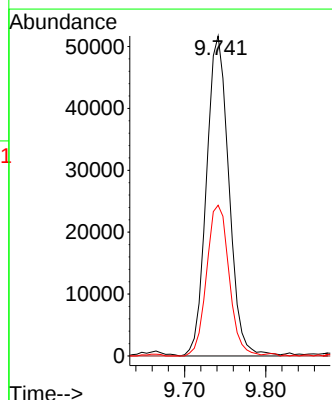
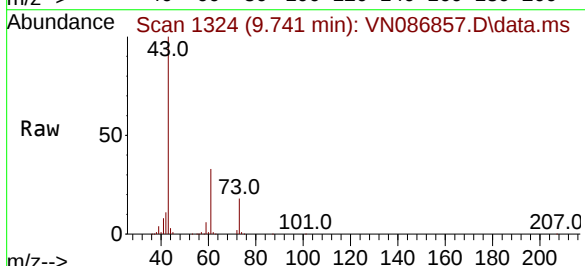
Tgt Ion: 41 Resp: 99172

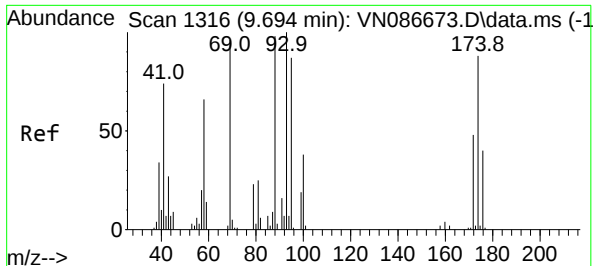
Ion Ratio Lower Upper

41 100

69 0.0 74.1 111.1#

39 47.2 44.1 66.1





#49

1,4-Dioxane

Concen: 0.884 ug/l

RT: 9.682 min Scan# 11

Delta R.T. -0.012 min

Lab File: VN086857.D

Acq: 03 Jun 2025 21:00

Instrument :

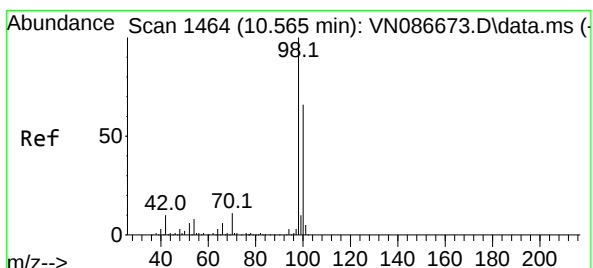
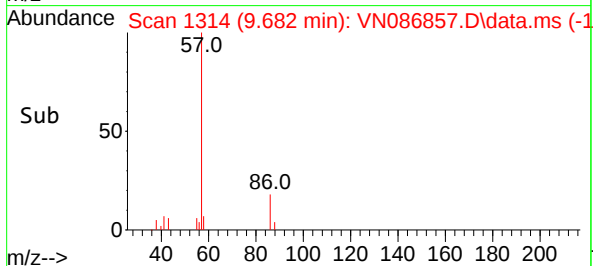
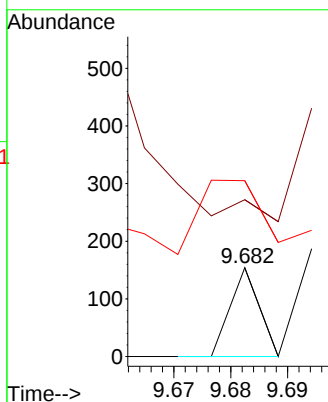
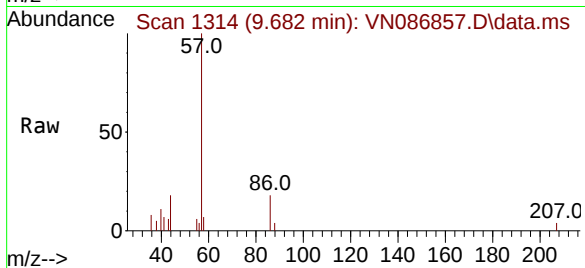
MSVOA_N

ClientSampleId :

B-202-SB01

Tgt Ion: 88 Resp: 54

Ion	Ratio	Lower	Upper
88	100		
43	0.0	23.6	35.4#
58	1187.0	55.3	82.9#



#50

Toluene-d8

Concen: 51.984 ug/l

RT: 10.565 min Scan# 1464

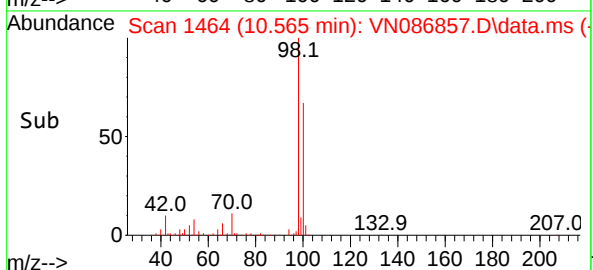
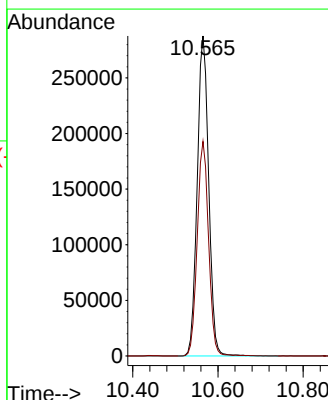
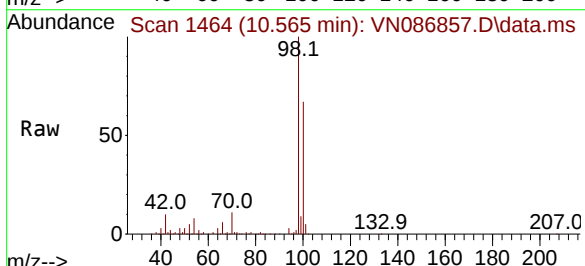
Delta R.T. -0.000 min

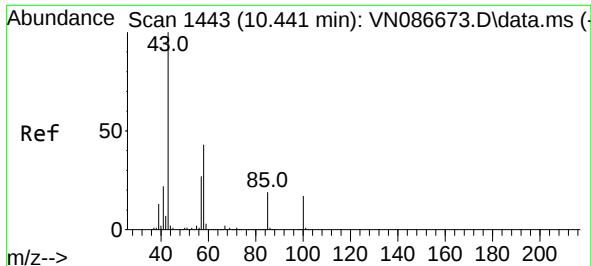
Lab File: VN086857.D

Acq: 03 Jun 2025 21:00

Tgt Ion: 98 Resp: 536776

Ion	Ratio	Lower	Upper
98	100		
100	66.3	52.9	79.3

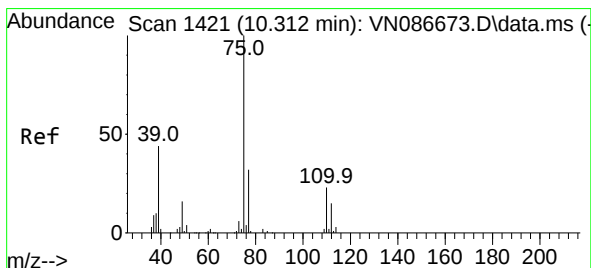
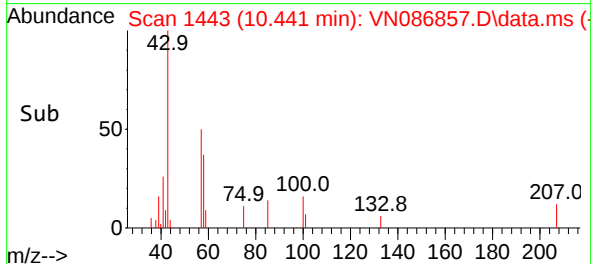
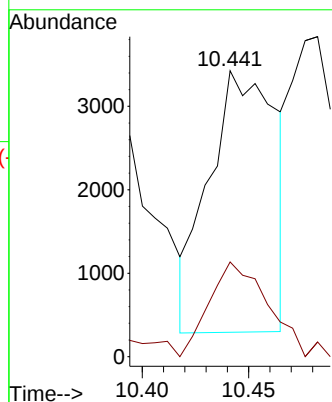
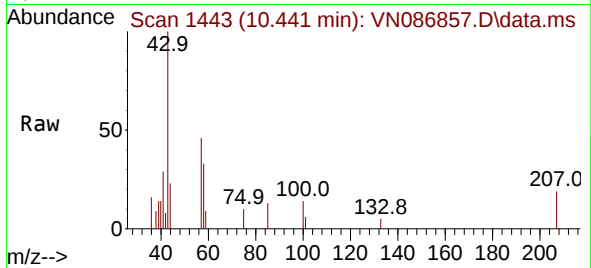




#51
4-Methyl-2-Pentanone
Concen: 1.817 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. -0.000 min
Lab File: VN086857.D
Acq: 03 Jun 2025 21:00

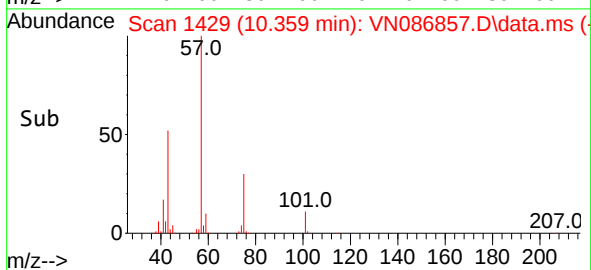
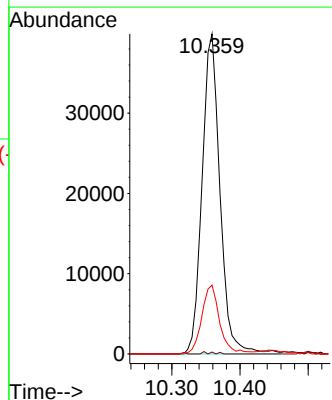
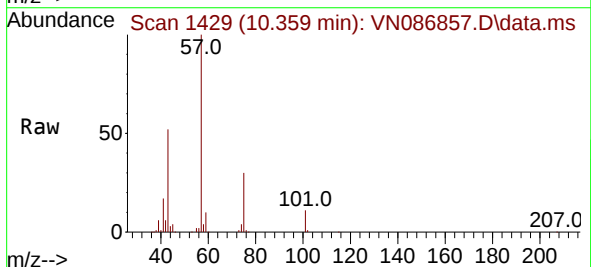
Instrument :
MSVOA_N
ClientSampleId :
B-202-SB01

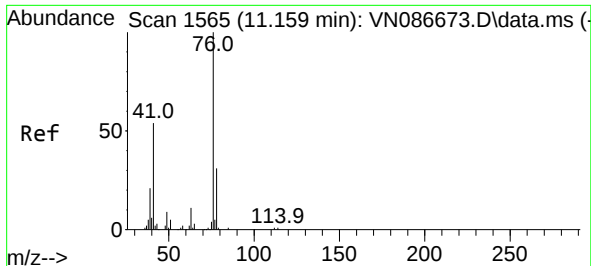
Tgt Ion: 43 Resp: 6819
Ion Ratio Lower Upper
43 100
58 32.4 33.9 50.9#



#54
cis-1,3-Dichloropropene
Concen: 15.928 ug/l
RT: 10.359 min Scan# 1429
Delta R.T. 0.047 min
Lab File: VN086857.D
Acq: 03 Jun 2025 21:00

Tgt Ion: 75 Resp: 72898
Ion Ratio Lower Upper
75 100
77 0.6 25.3 37.9#
39 21.5 35.2 52.8#





#57

1,3-Dichloropropane

Concen: 0.940 ug/l

RT: 11.206 min Scan# 1573

Delta R.T. 0.047 min

Lab File: VN086857.D

Acq: 03 Jun 2025 21:00

Instrument :

MSVOA_N

ClientSampleId :

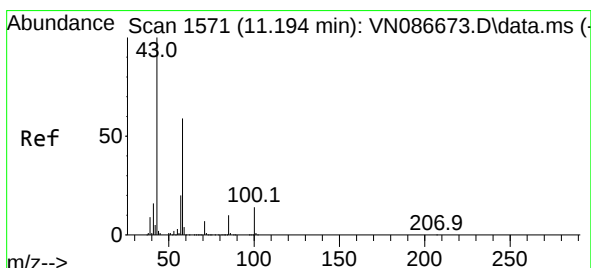
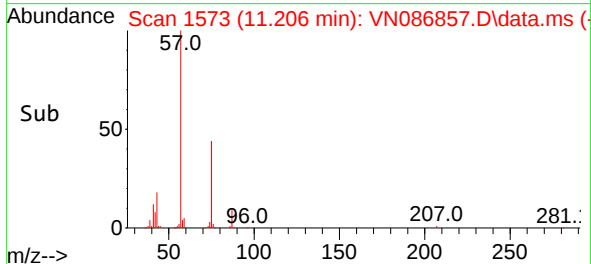
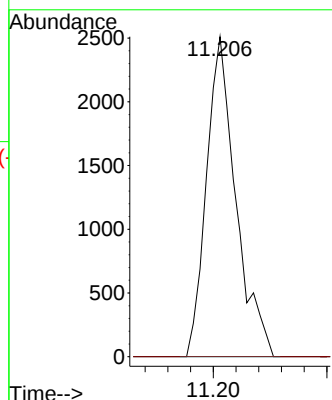
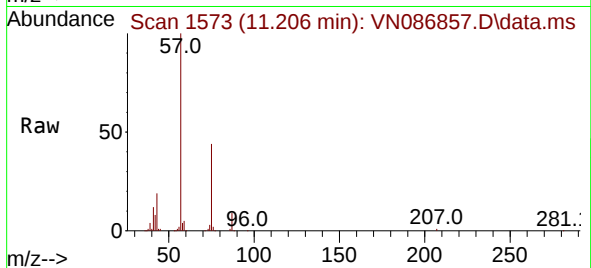
B-202-SB01

Tgt Ion: 76 Resp: 4502

Ion Ratio Lower Upper

76 100

78 0.0 25.8 38.8#



#59

2-Hexanone

Concen: 26.051 ug/l

RT: 11.206 min Scan# 1573

Delta R.T. 0.012 min

Lab File: VN086857.D

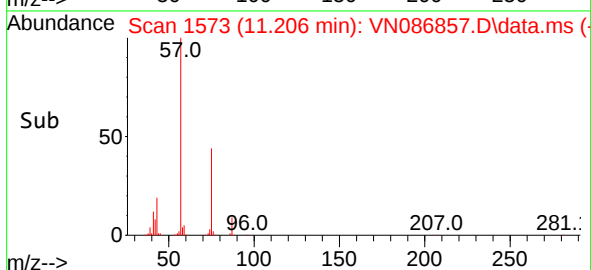
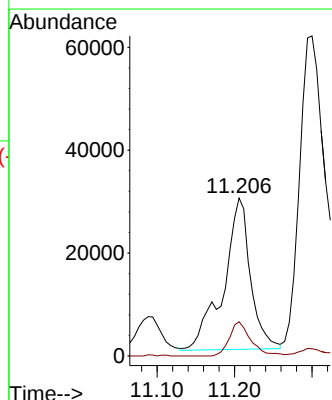
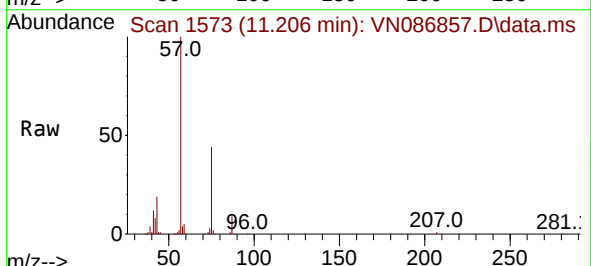
Acq: 03 Jun 2025 21:00

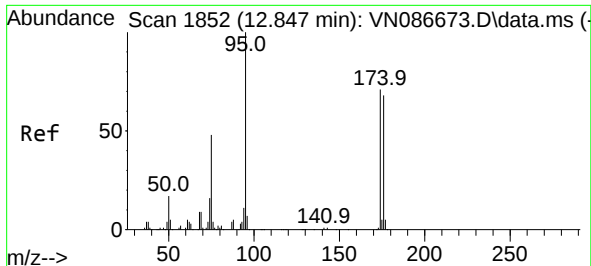
Tgt Ion: 43 Resp: 71402

Ion Ratio Lower Upper

43 100

58 18.0 29.8 89.5#

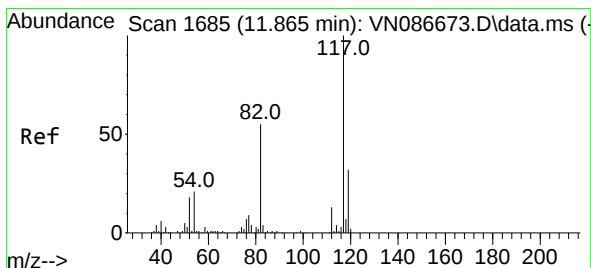
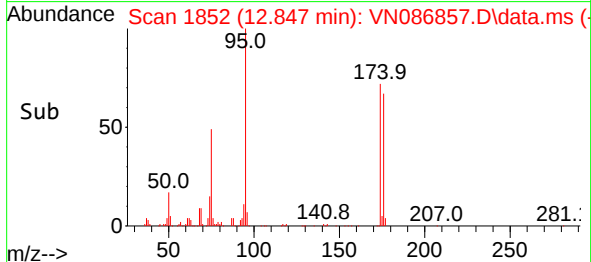
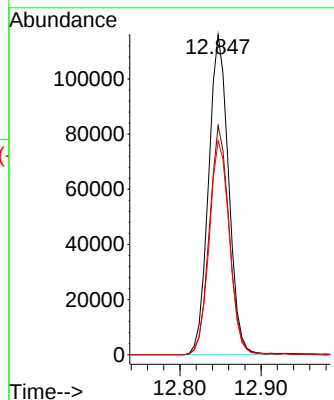
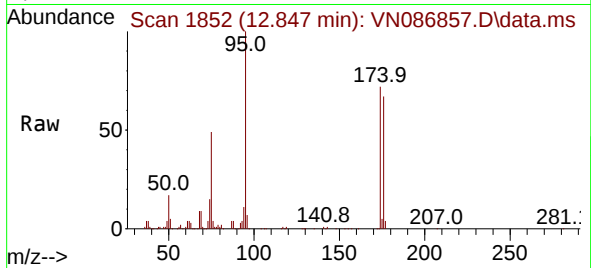




#62
4-Bromofluorobenzene
Concen: 54.562 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN086857.D
Acq: 03 Jun 2025 21:00

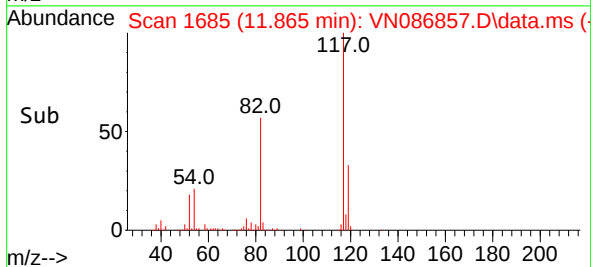
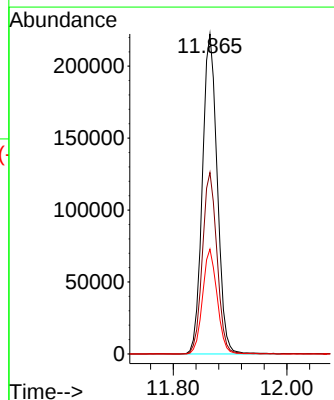
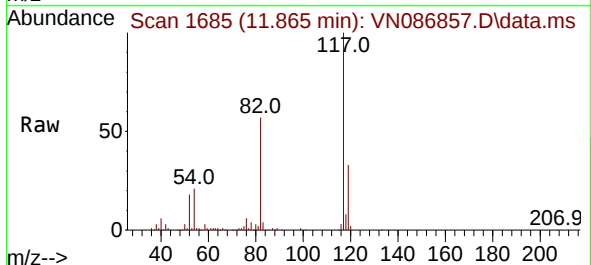
Instrument :
MSVOA_N
ClientSampleId :
B-202-SB01

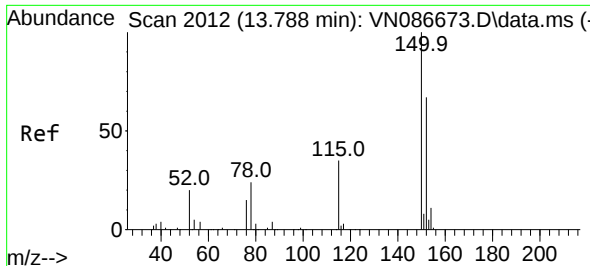
Tgt Ion: 95 Resp: 198933
Ion Ratio Lower Upper
95 100
174 70.5 0.0 145.4
176 67.1 0.0 137.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. -0.000 min
Lab File: VN086857.D
Acq: 03 Jun 2025 21:00

Tgt Ion: 117 Resp: 402557
Ion Ratio Lower Upper
117 100
82 56.7 44.2 66.2
119 32.8 25.4 38.2

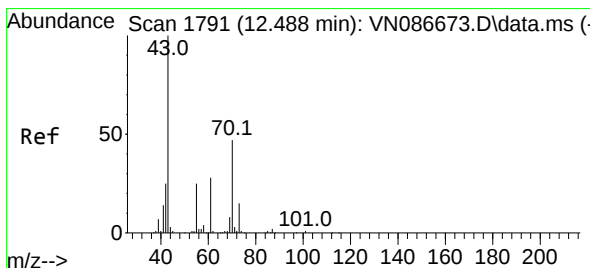
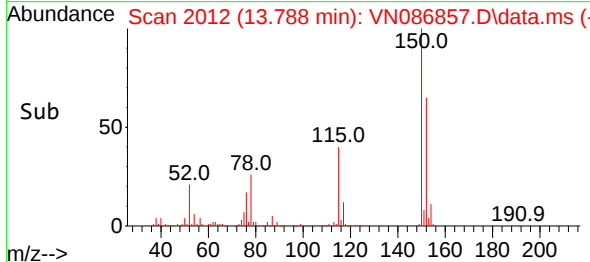
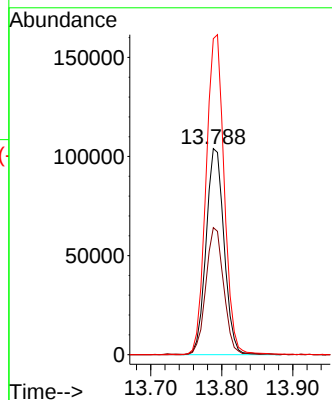
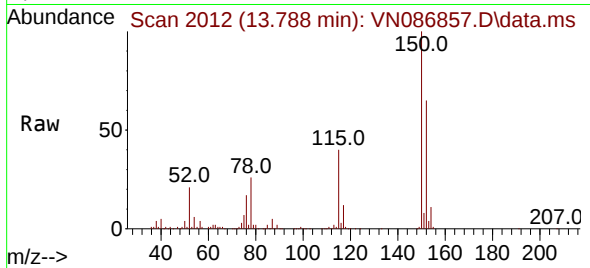




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 20
Delta R.T. -0.000 min
Lab File: VN086857.D
Acq: 03 Jun 2025 21:00

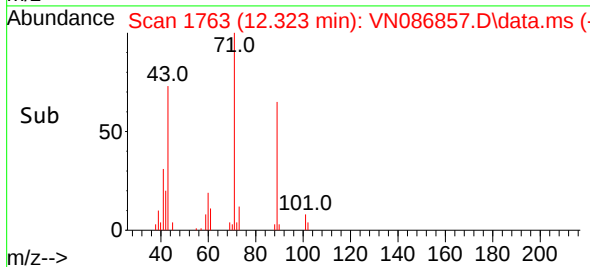
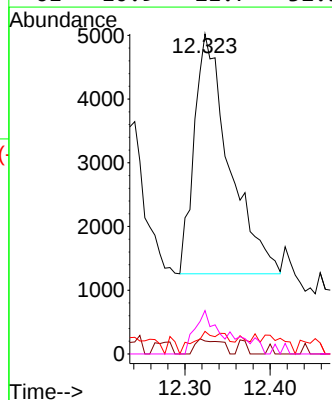
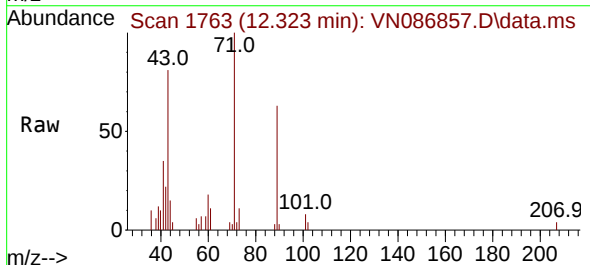
Instrument :
MSVOA_N
ClientSampleId :
B-202-SB01

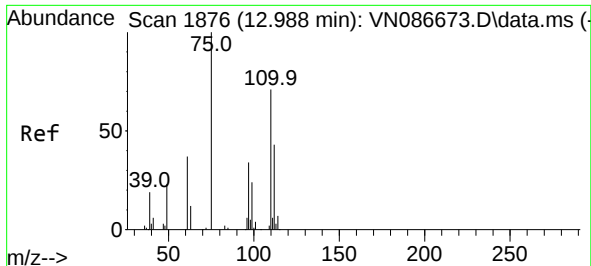
Tgt Ion:152 Resp: 183854
Ion Ratio Lower Upper
152 100
115 60.4 30.0 90.1
150 156.3 0.0 347.8



#74
N-ethyl acetate
Concen: 1.813 ug/l
RT: 12.323 min Scan# 1763
Delta R.T. -0.165 min
Lab File: VN086857.D
Acq: 03 Jun 2025 21:00

Tgt Ion: 43 Resp: 10759
Ion Ratio Lower Upper
43 100
70 4.4 37.9 56.9#
55 5.5 20.5 30.7#
61 10.9 21.7 32.5#

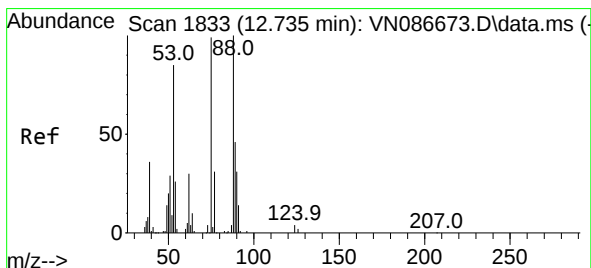
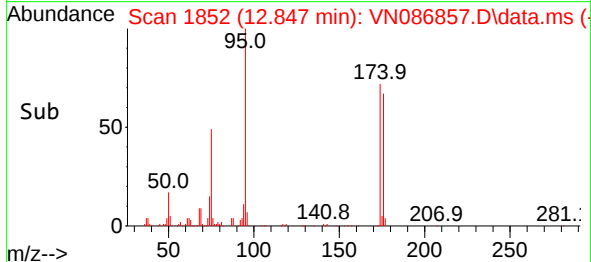
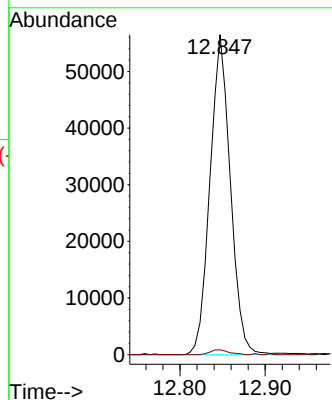
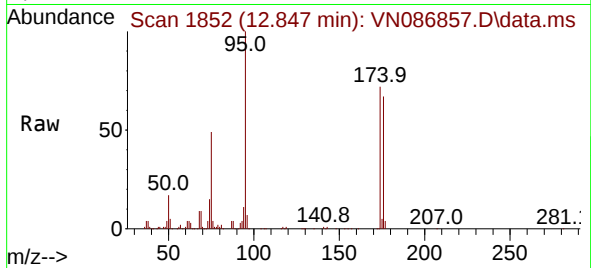




#76
1,2,3-Trichloropropane
Concen: 22.620 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.141 min
Lab File: VN086857.D
Acq: 03 Jun 2025 21:00

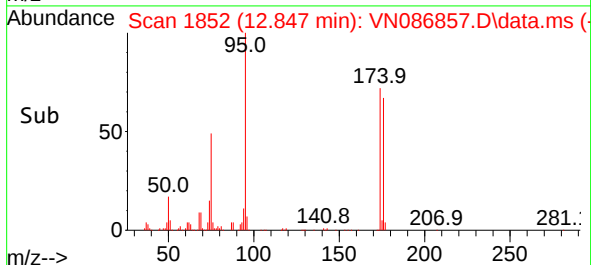
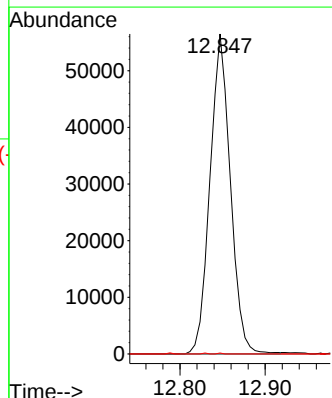
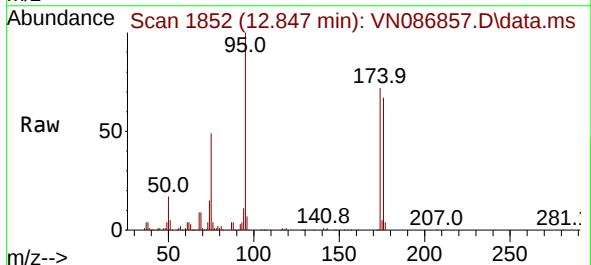
Instrument :
MSVOA_N
ClientSampleId :
B-202-SB01

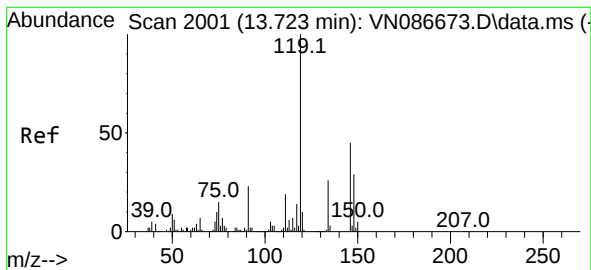
Tgt Ion: 75 Resp: 94056
Ion Ratio Lower Upper
75 100
77 1.4 96.0 288.1#



#81
trans-1,4-Dichloro-2-butene
Concen: 57.086 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.112 min
Lab File: VN086857.D
Acq: 03 Jun 2025 21:00

Tgt Ion: 75 Resp: 94056
Ion Ratio Lower Upper
75 100
53 0.0 70.4 105.6#
89 0.1 32.4 48.6#





#86
 p-Isopropyltoluene
 Concen: 0.561 ug/l
 RT: 13.729 min Scan# 20
 Delta R.T. 0.006 min
 Lab File: VN086857.D
 Acq: 03 Jun 2025 21:00

Instrument :
 MSVOA_N
 ClientSampleId :
 B-202-SB01

Tgt Ion:119 Resp: 6113
 Ion Ratio Lower Upper
 119 100
 134 25.8 13.1 39.1
 91 28.2 11.5 34.5

