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 Data File : VN086856.D
 Acq On : 03 Jun 2025 20:36
 Operator : JC\MD
 Sample : Q2177-05
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 23 Sample Multiplier: 1

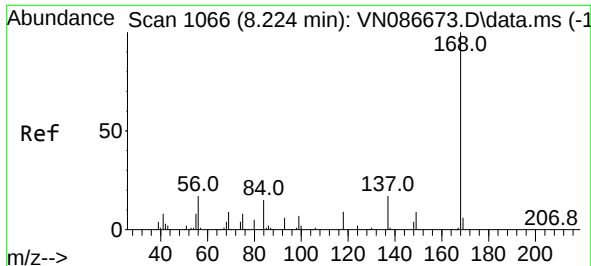
Instrument :
 MSVOA_N
 ClientSampleId :
 B-187-SB02

Quant Time: Jun 04 02:07:08 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	221135	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	428494	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	404884	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	181011	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	154873	50.684	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	= 101.360%	
35) Dibromofluoromethane	8.159	113	135623	53.147	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 106.300%	
50) Toluene-d8	10.565	98	551649	52.165	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	= 104.340%	
62) 4-Bromofluorobenzene	12.847	95	198824	53.247	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	= 106.500%	
Target Compounds						
					Qvalue	
3) Chloromethane	2.377	50	15035	4.162	ug/l	94
11) Tert butyl alcohol	5.489	59	334	0.600	ug/l #	73
13) Acrolein	4.171	56	377	0.634	ug/l #	39
16) Acetone	4.418	43	81184	71.025	ug/l	95
17) Carbon Disulfide	4.700	76	6423	0.941	ug/l	100
18) Methyl Acetate	5.018	43	27122	8.478	ug/l	98
20) Methylene Chloride	5.265	84	8811	2.921	ug/l	92
25) 2-Butanone	7.483	43	18128	10.263	ug/l	97
27) cis-1,2-Dichloroethene	7.477	96	748	0.234	ug/l #	1
29) Tetrahydrofuran	7.847	42	1149	0.997	ug/l #	71
31) Cyclohexane	8.218	56	4115	0.897	ug/l #	1
36) 1,1-Dichloropropene	8.224	75	18170	4.827	ug/l #	49
37) Ethyl Acetate	7.553	43	16457	4.328	ug/l	98
38) Carbon Tetrachloride	8.218	117	21882	5.900	ug/l #	17
43) Isopropyl Acetate	8.688	43	13913	1.825	ug/l	94
45) 1,2-Dichloropropane	9.741	63	1081	0.371	ug/l #	42
48) Methyl methacrylate	9.741	41	75383	25.522	ug/l #	35
49) 1,4-Dioxane	9.706	88	266	4.253	ug/l #	24
51) 4-Methyl-2-Pentanone	10.447	43	6043	1.572	ug/l	90
54) cis-1,3-Dichloropropene	10.359	75	65516	13.977	ug/l #	56
57) 1,3-Dichloropropane	11.212	76	3471	0.708	ug/l #	42
59) 2-Hexanone	11.206	43	47894	17.062	ug/l #	49
71) Bromoform	12.847	173	897	0.440	ug/l #	1
76) 1,2,3-Trichloropropane	12.847	75	94342	23.045	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	94342	58.159	ug/l #	15
84) 1,2,4-Trimethylbenzene	13.729	105	32322	2.898	ug/l #	1
85) sec-Butylbenzene	13.729	105	32408	2.474	ug/l #	1
86) p-Isopropyltoluene	13.729	119	985932	91.836	ug/l	100

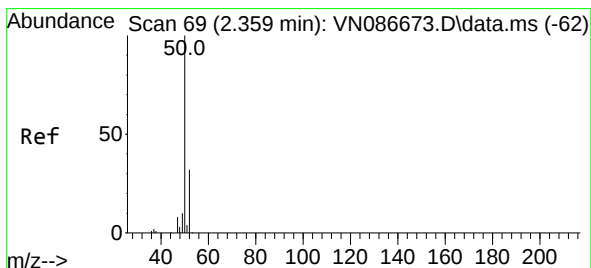
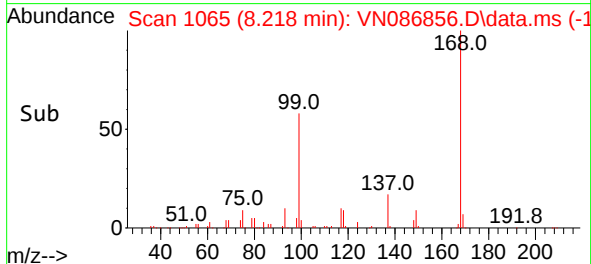
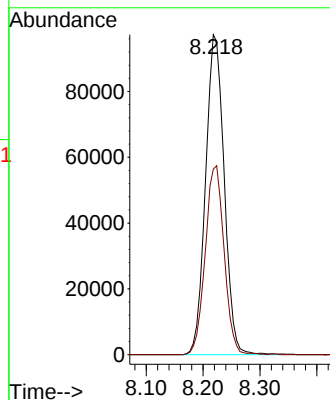
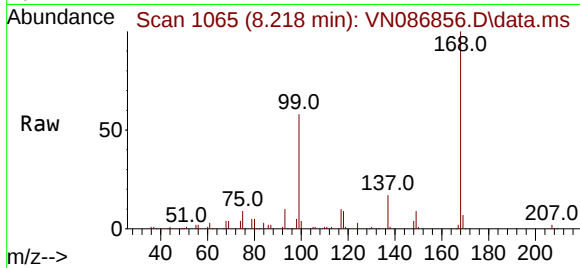
(#) = qualifier out of range (m) = manual integration (+) = signals summed



#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.218 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN086856.D
Acq: 03 Jun 2025 20:36

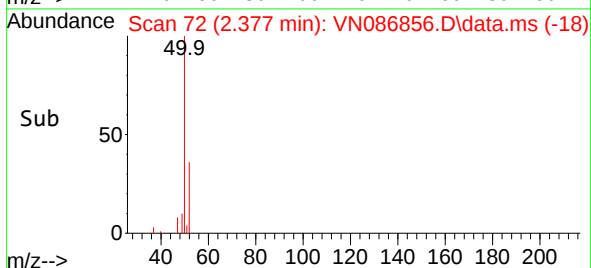
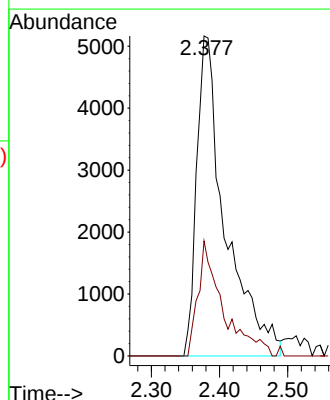
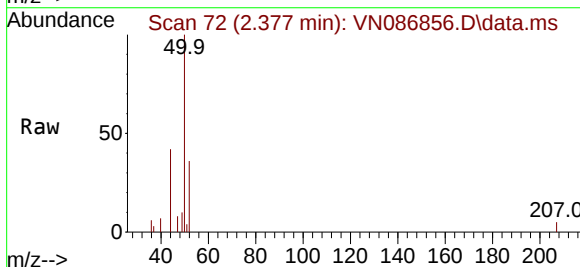
Instrument :
MSVOA_N
ClientSampleId :
B-187-SB02

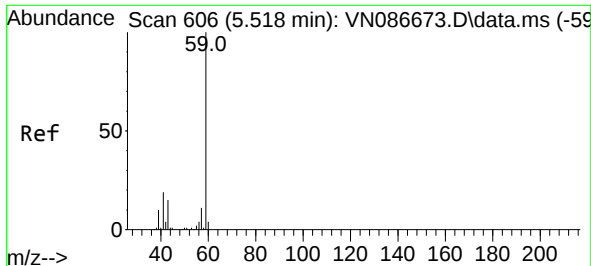
Tgt Ion:168 Resp: 221135
Ion Ratio Lower Upper
168 100
99 58.0 47.0 70.4



#3
Chloromethane
Concen: 4.162 ug/l
RT: 2.377 min Scan# 72
Delta R.T. 0.018 min
Lab File: VN086856.D
Acq: 03 Jun 2025 20:36

Tgt Ion: 50 Resp: 15035
Ion Ratio Lower Upper
50 100
52 35.9 25.9 38.9

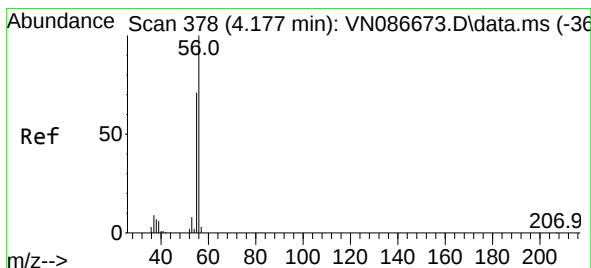
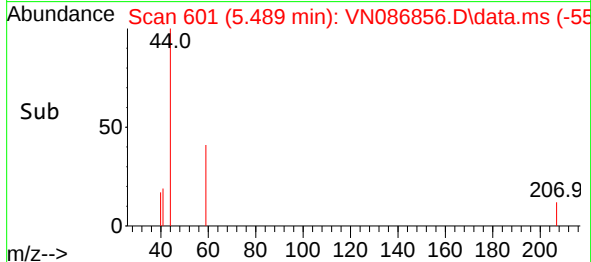
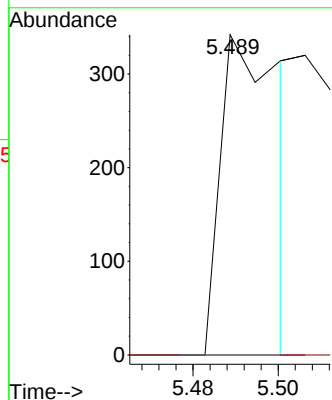
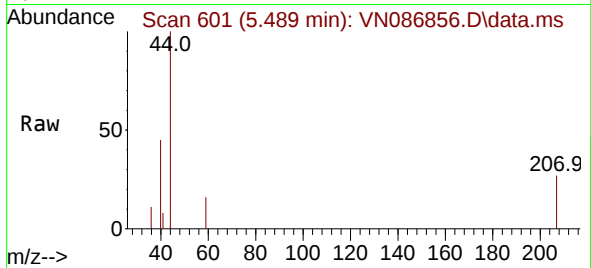




#11
Tert butyl alcohol
Concen: 0.600 ug/l
RT: 5.489 min Scan# 606
Delta R.T. -0.029 min
Lab File: VN086856.D
Acq: 03 Jun 2025 20:36

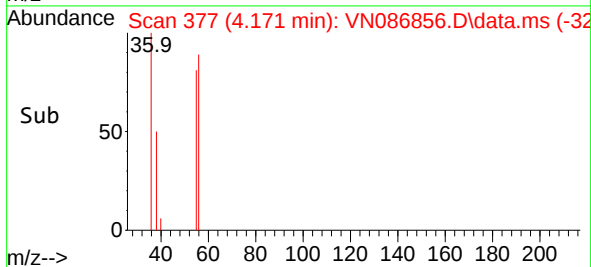
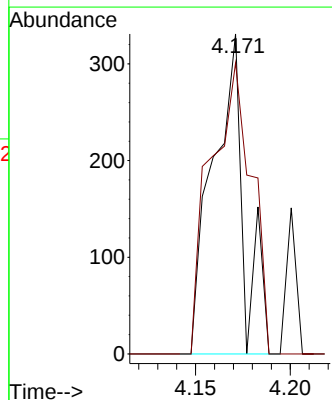
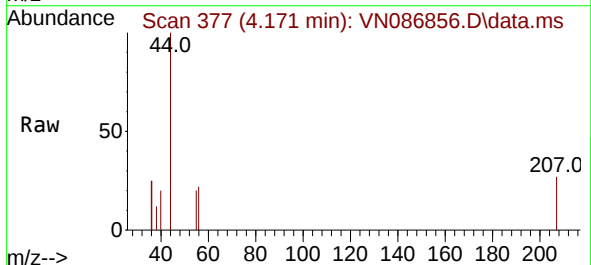
Instrument :
MSVOA_N
ClientSampleId :
B-187-SB02

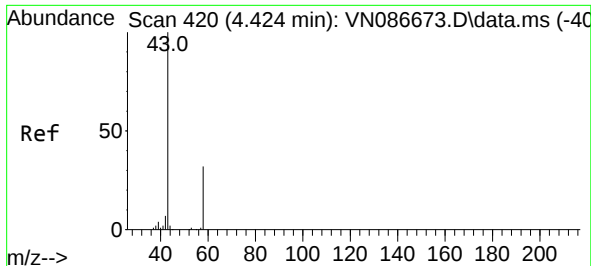
Tgt Ion: 59 Resp: 334
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.2#



#13
Acrolein
Concen: 0.634 ug/l
RT: 4.171 min Scan# 377
Delta R.T. -0.006 min
Lab File: VN086856.D
Acq: 03 Jun 2025 20:36

Tgt Ion: 56 Resp: 377
Ion Ratio Lower Upper
56 100
55 119.9 55.7 83.5#





#16

Acetone

Concen: 71.025 ug/l

RT: 4.418 min Scan# 419

Delta R.T. -0.006 min

Lab File: VN086856.D

Acq: 03 Jun 2025 20:36

Instrument :

MSVOA_N

ClientSampleId :

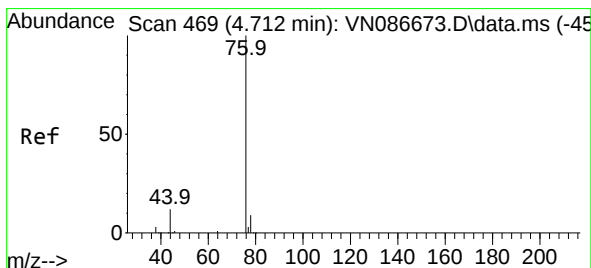
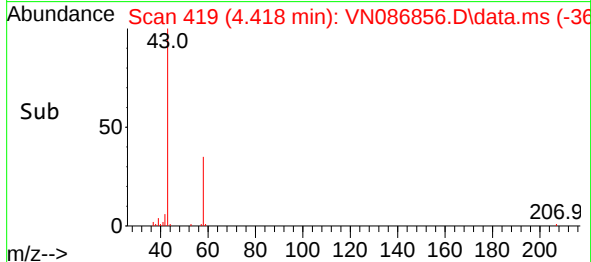
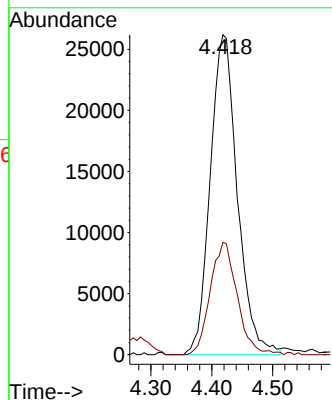
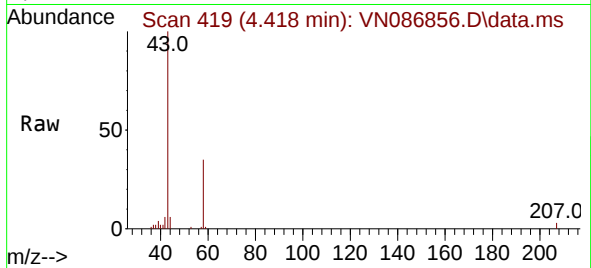
B-187-SB02

Tgt Ion: 43 Resp: 81184

Ion Ratio Lower Upper

43 100

58 35.1 25.8 38.6



#17

Carbon Disulfide

Concen: 0.941 ug/l

RT: 4.700 min Scan# 467

Delta R.T. -0.012 min

Lab File: VN086856.D

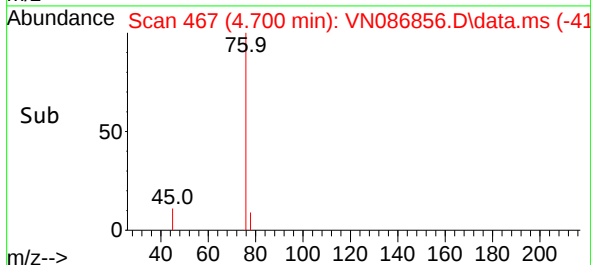
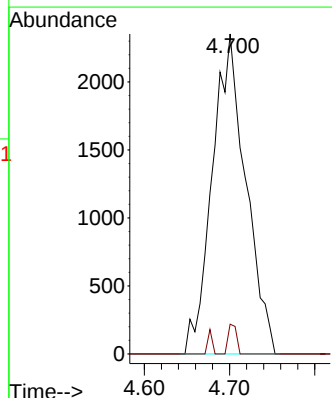
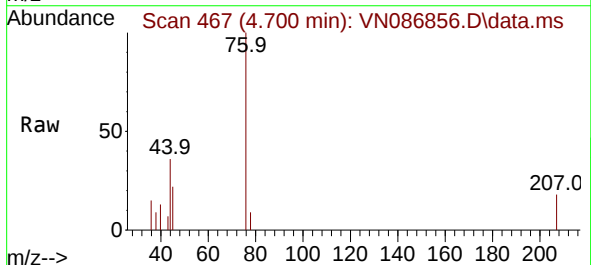
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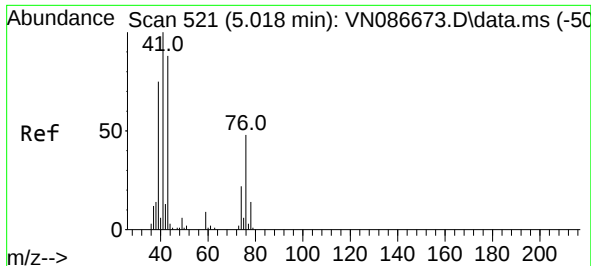
Tgt Ion: 76 Resp: 6423

Ion Ratio Lower Upper

76 100

78 9.3 7.3 10.9

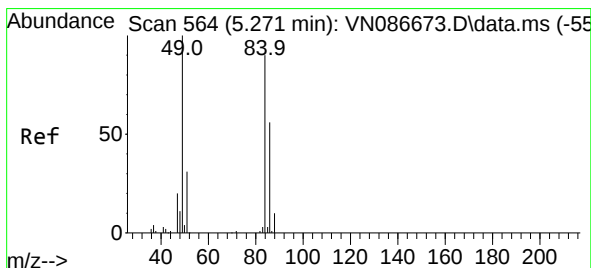
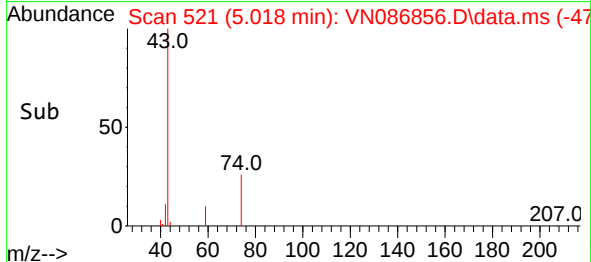
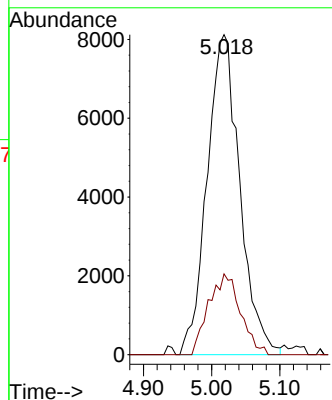
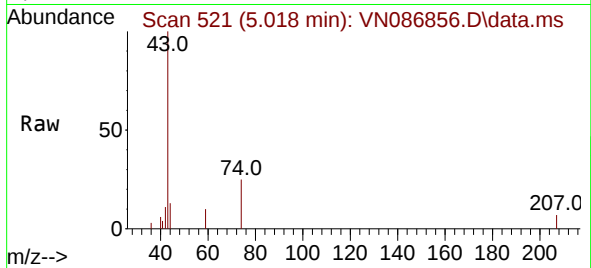




#18
Methyl Acetate
Concen: 8.478 ug/l
RT: 5.018 min Scan# 51
Delta R.T. 0.000 min
Lab File: VN086856.D
Acq: 03 Jun 2025 20:36

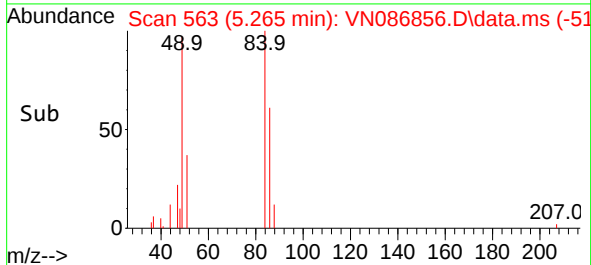
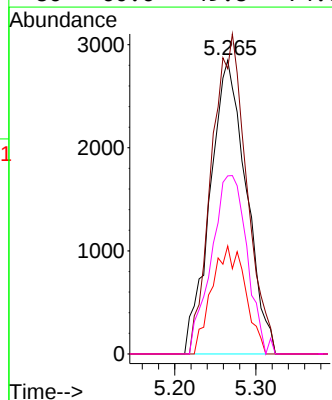
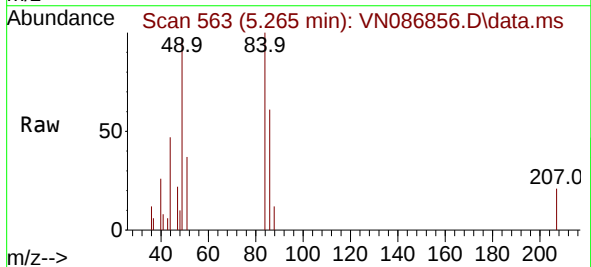
Instrument :
MSVOA_N
ClientSampleId :
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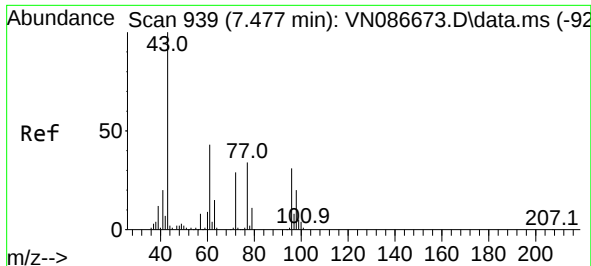
Tgt Ion: 43 Resp: 27122
Ion Ratio Lower Upper
43 100
74 24.5 20.5 30.7



#20
Methylene Chloride
Concen: 2.921 ug/l
RT: 5.265 min Scan# 563
Delta R.T. -0.006 min
Lab File: VN086856.D
Acq: 03 Jun 2025 20:36

Tgt Ion: 84 Resp: 8811
Ion Ratio Lower Upper
84 100
49 97.2 88.8 133.2
51 36.8 27.8 41.6
86 60.6 49.8 74.6

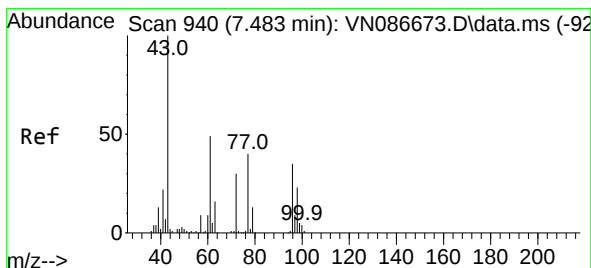
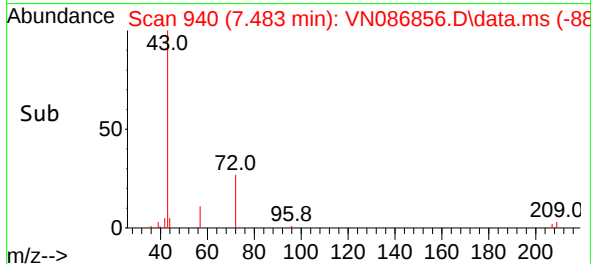
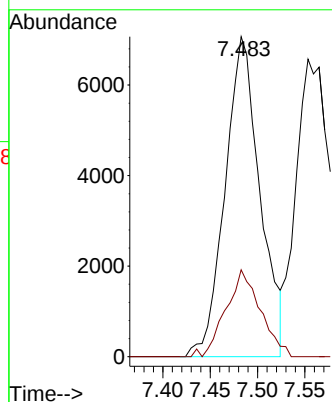
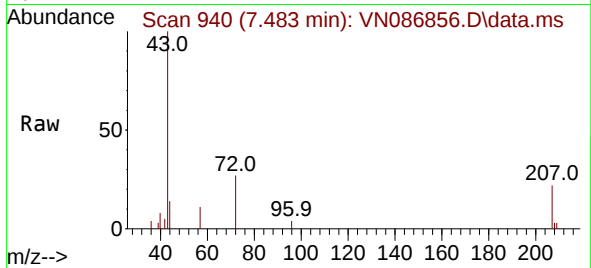




#25
2-Butanone
Concen: 10.263 ug/l
RT: 7.483 min Scan# 940
Delta R.T. 0.006 min
Lab File: VN086856.D
Acq: 03 Jun 2025 20:36

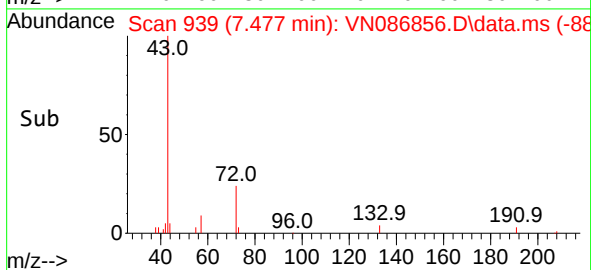
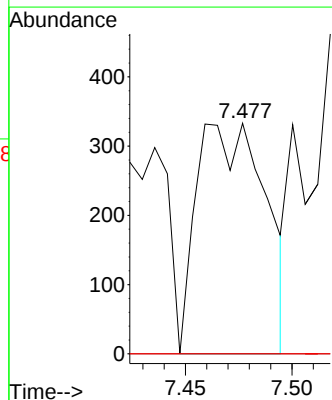
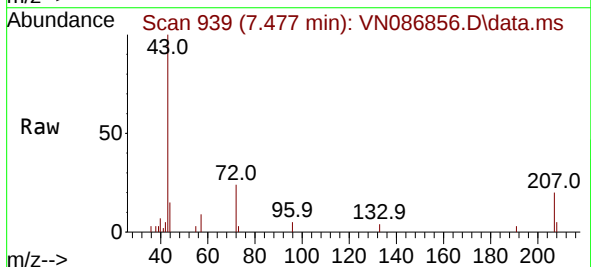
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ClientSampleId :
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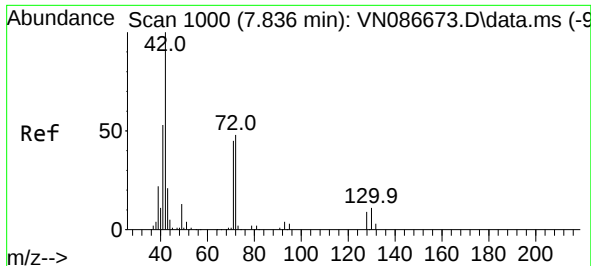
Tgt Ion: 43 Resp: 18128
Ion Ratio Lower Upper
43 100
72 27.2 23.1 34.7



#27
cis-1,2-Dichloroethene
Concen: 0.234 ug/l
RT: 7.477 min Scan# 939
Delta R.T. -0.006 min
Lab File: VN086856.D
Acq: 03 Jun 2025 20:36

Tgt Ion: 96 Resp: 748
Ion Ratio Lower Upper
96 100
61 0.0 0.0 277.4
98 0.0 0.0 129.6





#29

Tetrahydrofuran

Concen: 0.997 ug/l

RT: 7.847 min Scan# 1065

Delta R.T. 0.012 min

Lab File: VN086856.D

Acq: 03 Jun 2025 20:36

Instrument :

MSVOA_N

ClientSampleId :

B-187-SB02

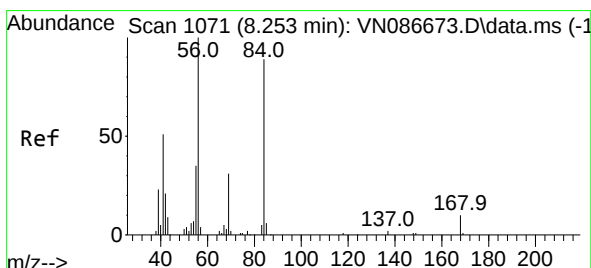
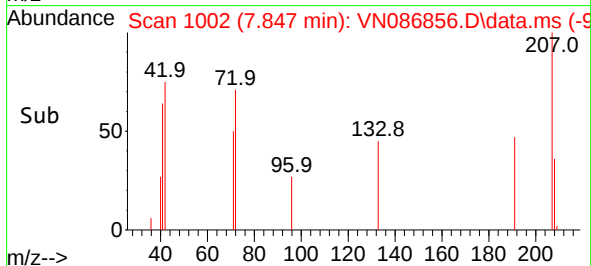
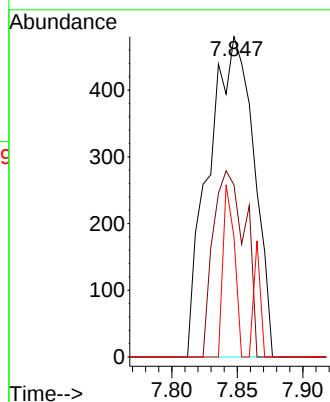
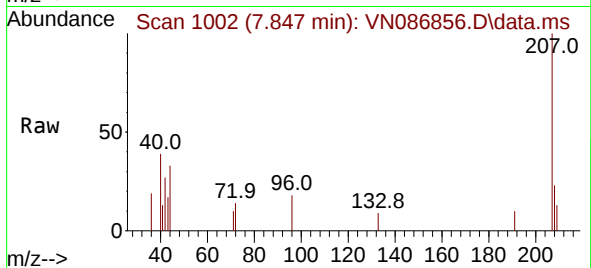
Tgt Ion: 42 Resp: 1149

Ion Ratio Lower Upper

42 100

72 41.2 38.7 58.1

71 13.5 36.2 54.4#



#31

Cyclohexane

Concen: 0.897 ug/l

RT: 8.218 min Scan# 1065

Delta R.T. -0.035 min

Lab File: VN086856.D

Acq: 03 Jun 2025 20:36

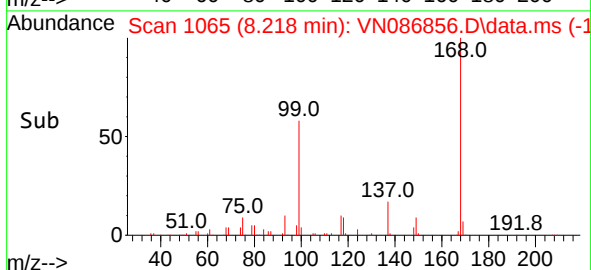
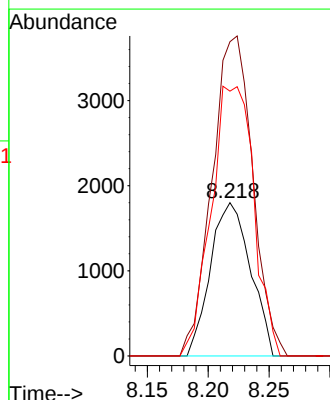
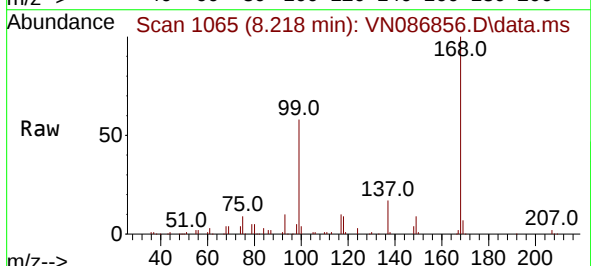
Tgt Ion: 56 Resp: 4115

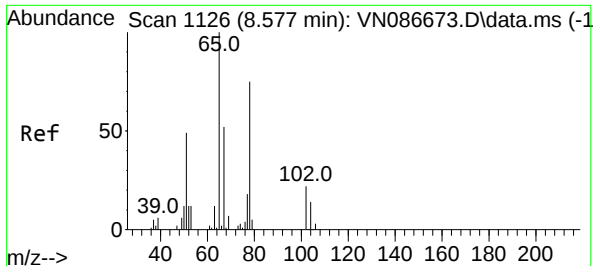
Ion Ratio Lower Upper

56 100

69 205.0 25.0 37.6#

84 172.7 71.0 106.4#





#33

1,2-Dichloroethane-d4

Concen: 50.684 ug/l

RT: 8.577 min Scan# 1126

Delta R.T. 0.000 min

Lab File: VN086856.D

Acq: 03 Jun 2025 20:36

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MSVOA_N

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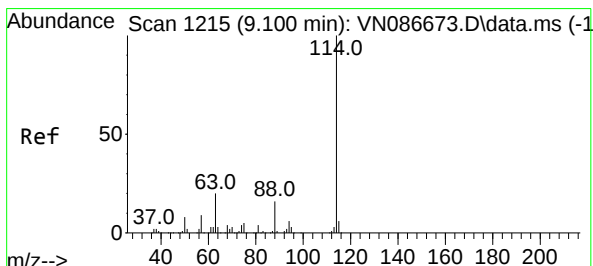
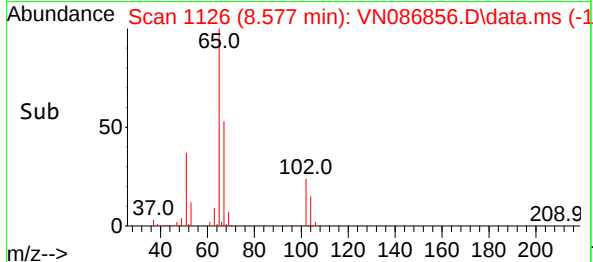
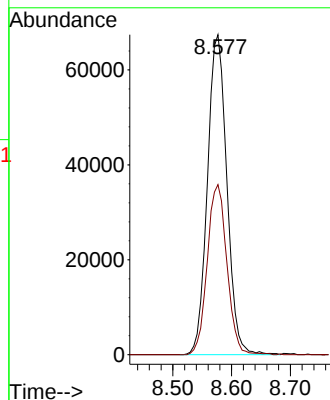
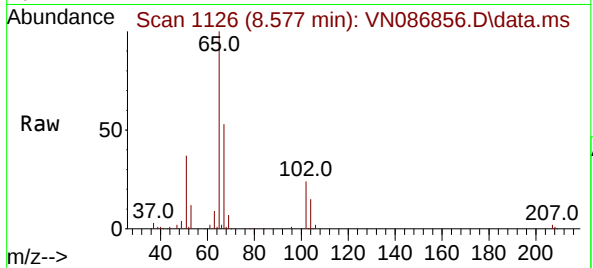
B-187-SB02

Tgt Ion: 65 Resp: 154873

Ion Ratio Lower Upper

65 100

67 53.7 0.0 106.4



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 1215

Delta R.T. 0.000 min

Lab File: VN086856.D

Acq: 03 Jun 2025 20:36

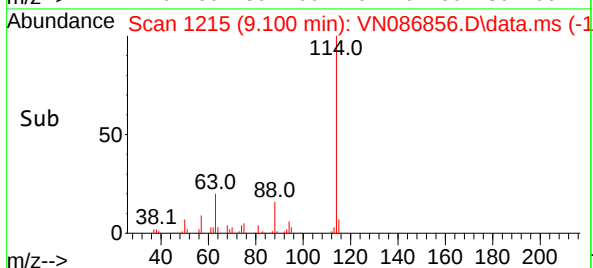
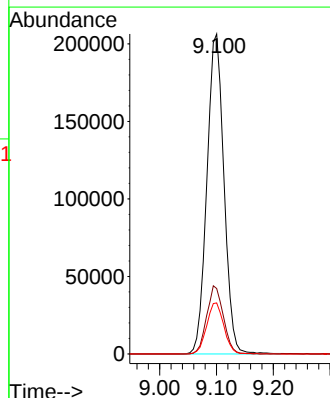
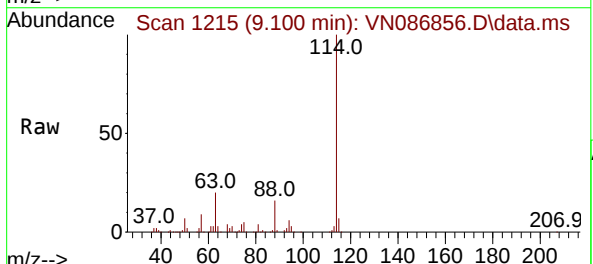
Tgt Ion: 114 Resp: 428494

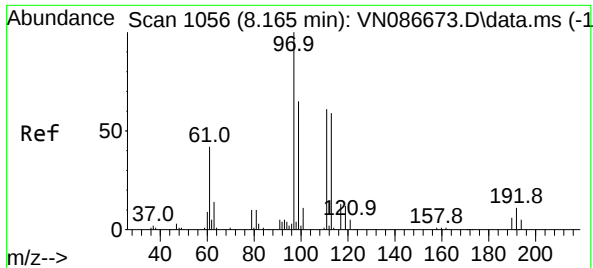
Ion Ratio Lower Upper

114 100

63 20.4 0.0 40.2

88 15.9 0.0 31.2

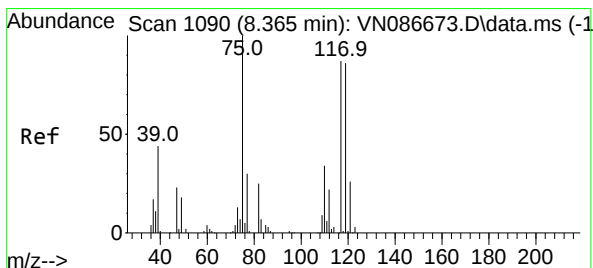
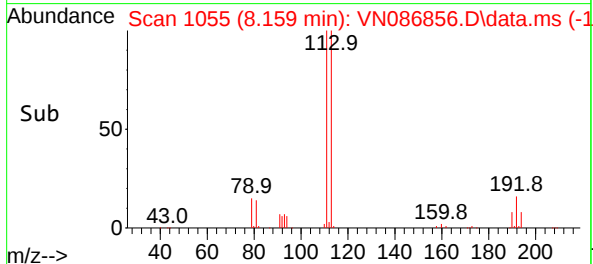
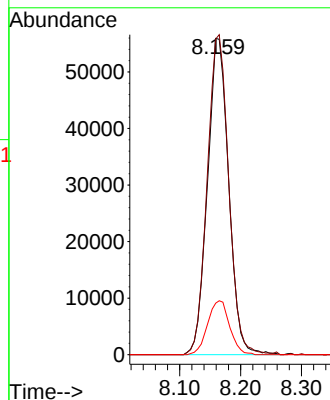
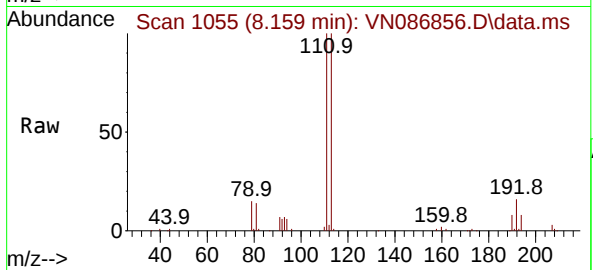




#35
Dibromofluoromethane
Concen: 53.147 ug/l
RT: 8.159 min Scan# 1055
Delta R.T. -0.006 min
Lab File: VN086856.D
Acq: 03 Jun 2025 20:36

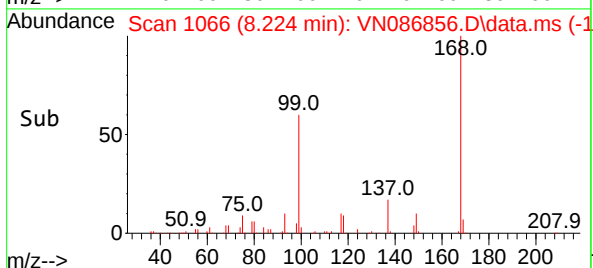
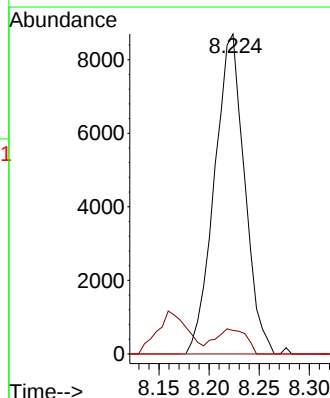
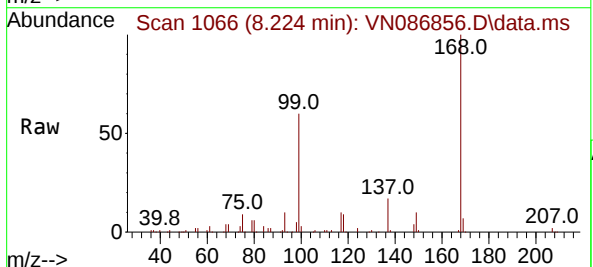
Instrument :
MSVOA_N
ClientSampleId :
B-187-SB02

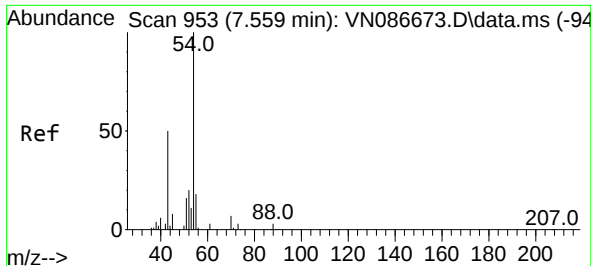
Tgt Ion:113 Resp: 135623
Ion Ratio Lower Upper
113 100
111 102.4 82.2 123.2
192 17.6 13.8 20.8



#36
1,1-Dichloropropene
Concen: 4.827 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.141 min
Lab File: VN086856.D
Acq: 03 Jun 2025 20:36

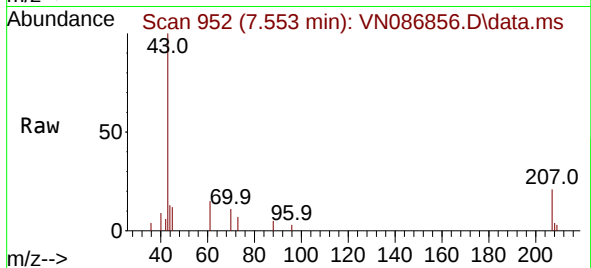
Tgt Ion: 75 Resp: 18170
Ion Ratio Lower Upper
75 100
110 8.0 17.5 52.5#
77 0.0 25.1 37.7#



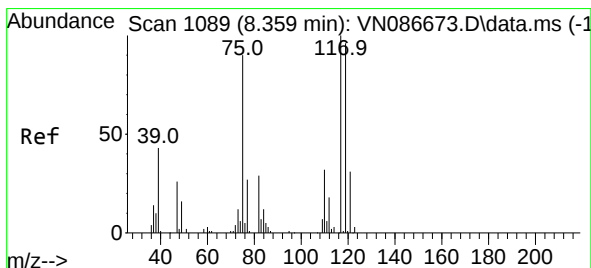
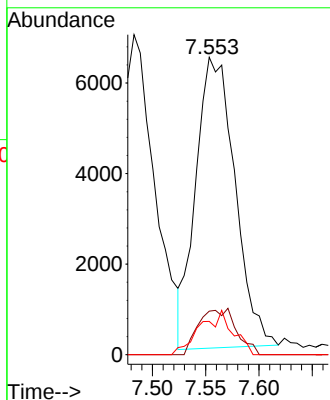
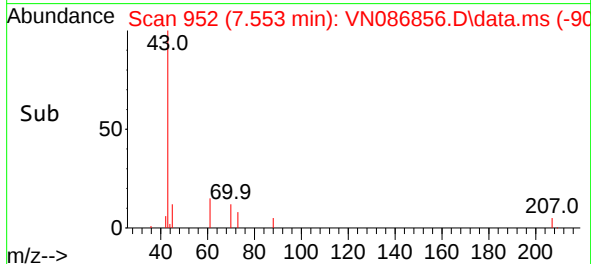


#37
Ethyl Acetate
Concen: 4.328 ug/l
RT: 7.553 min Scan# 91
Delta R.T. -0.006 min
Lab File: VN086856.D
Acq: 03 Jun 2025 20:36

Instrument :
MSVOA_N
ClientSampleId :
B-187-SB02

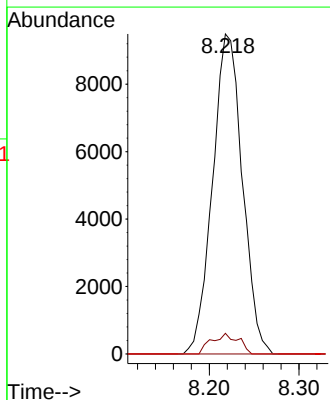
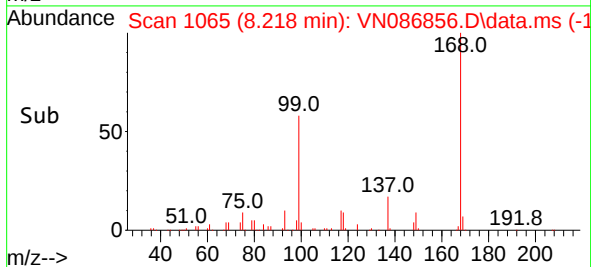
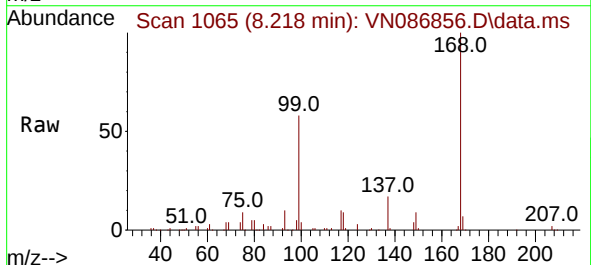


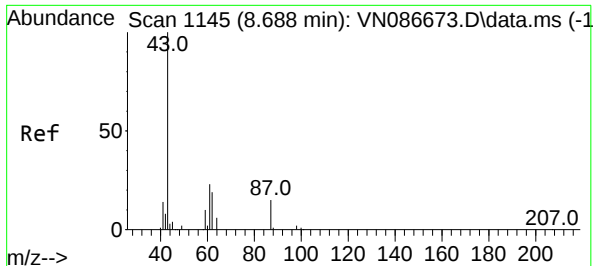
Tgt Ion: 43 Resp: 16457
Ion Ratio Lower Upper
43 100
61 15.1 11.6 17.4
70 12.8 9.4 14.0



#38
Carbon Tetrachloride
Concen: 5.900 ug/l
RT: 8.218 min Scan# 1065
Delta R.T. -0.141 min
Lab File: VN086856.D
Acq: 03 Jun 2025 20:36

Tgt Ion: 117 Resp: 21882
Ion Ratio Lower Upper
117 100
119 6.5 77.0 115.6#
121 0.0 25.0 37.6#

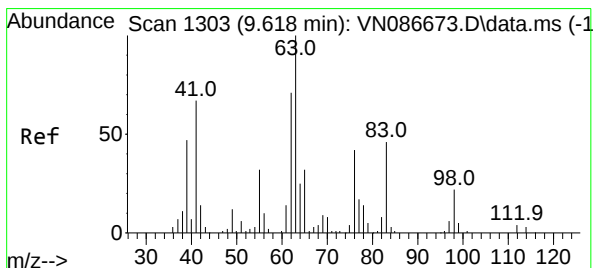
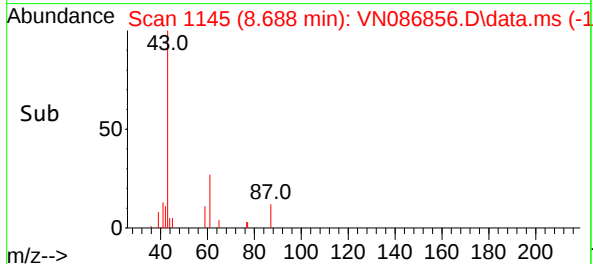
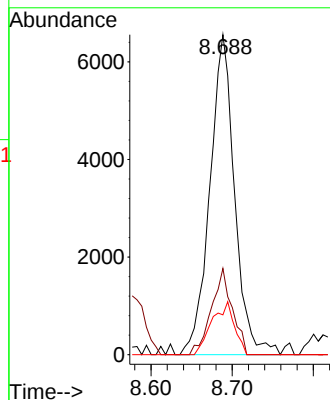
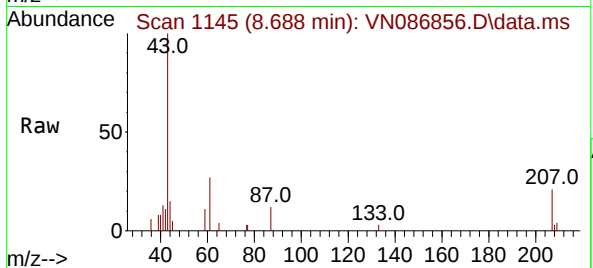




#43
Isopropyl Acetate
Concen: 1.825 ug/l
RT: 8.688 min Scan# 1145
Delta R.T. 0.000 min
Lab File: VN086856.D
Acq: 03 Jun 2025 20:36

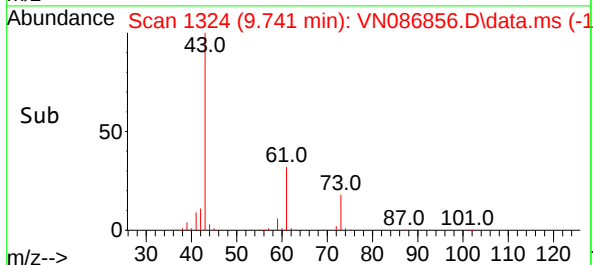
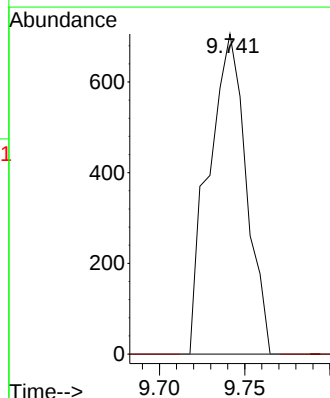
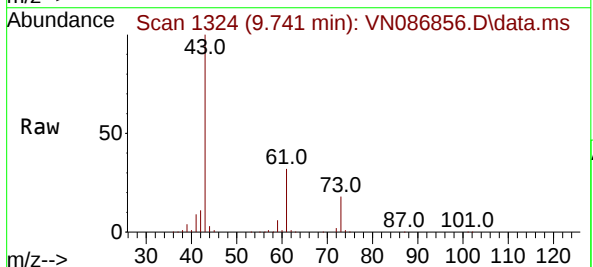
Instrument :
MSVOA_N
ClientSampleId :
B-187-SB02

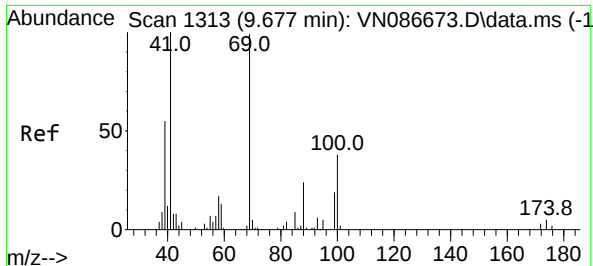
Tgt Ion:	43	Resp:	13913
Ion	Ratio	Lower	Upper
43	100		
61	22.6	21.4	32.2
87	15.0	11.1	16.7



#45
1,2-Dichloropropane
Concen: 0.371 ug/l
RT: 9.741 min Scan# 1324
Delta R.T. 0.124 min
Lab File: VN086856.D
Acq: 03 Jun 2025 20:36

Tgt Ion:	63	Resp:	1081
Ion	Ratio	Lower	Upper
63	100		
65	0.0	25.8	38.6#

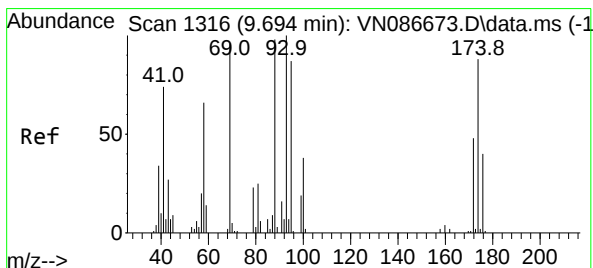
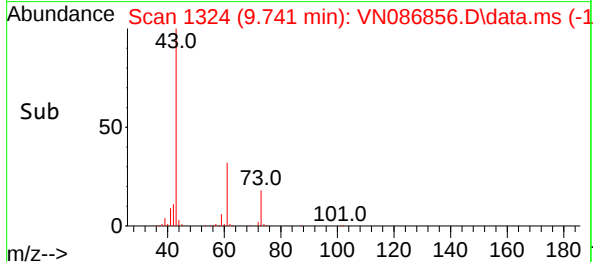
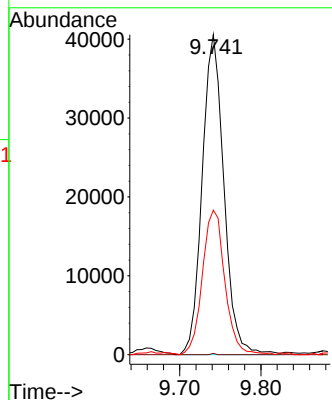
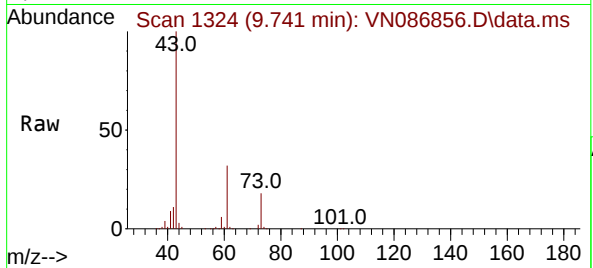




#48
Methyl methacrylate
Concen: 25.522 ug/l
RT: 9.741 min Scan# 11
Delta R.T. 0.065 min
Lab File: VN086856.D
Acq: 03 Jun 2025 20:36

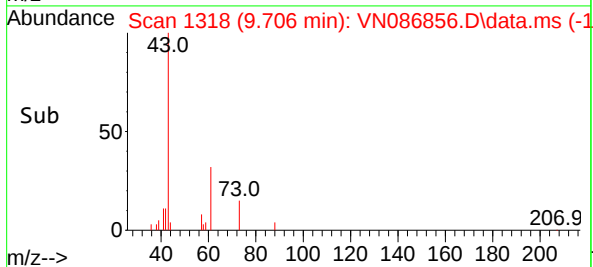
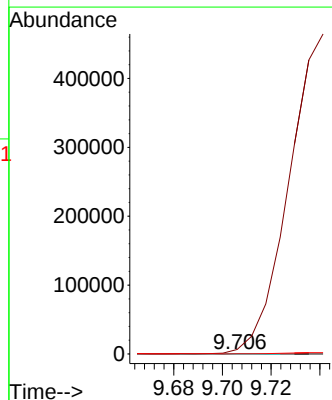
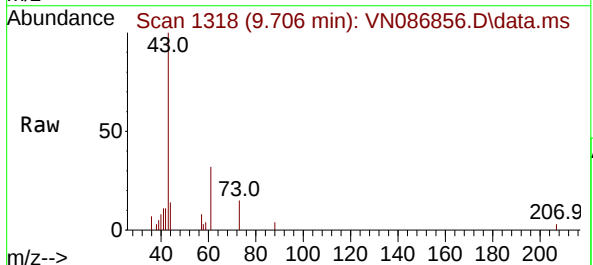
Instrument :
MSVOA_N
ClientSampleId :
B-187-SB02

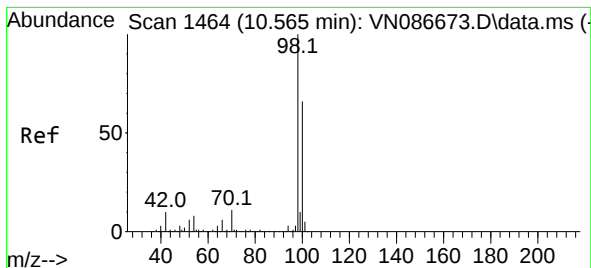
Tgt Ion: 41 Resp: 75383
Ion Ratio Lower Upper
41 100
69 0.1 74.1 111.1#
39 46.6 44.1 66.1



#49
1,4-Dioxane
Concen: 4.253 ug/l
RT: 9.706 min Scan# 1318
Delta R.T. 0.012 min
Lab File: VN086856.D
Acq: 03 Jun 2025 20:36

Tgt Ion: 88 Resp: 266
Ion Ratio Lower Upper
88 100
43 0.0 23.6 35.4#
58 0.0 55.3 82.9#

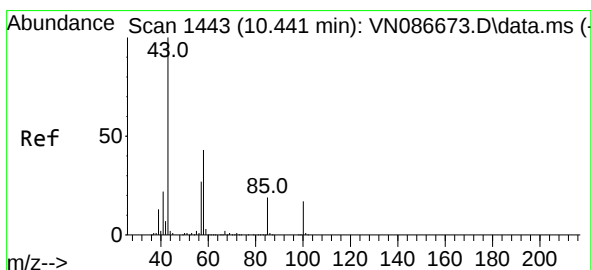
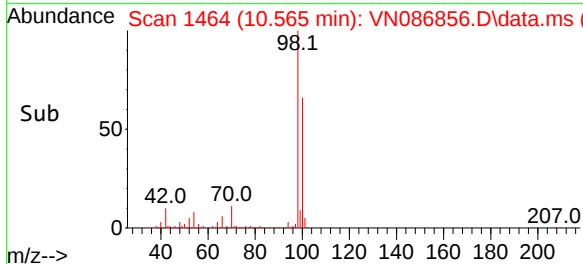
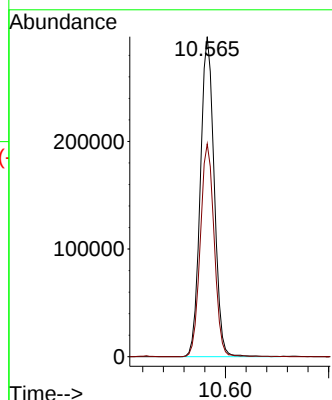
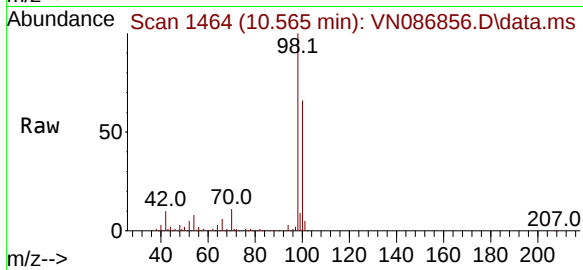




#50
Toluene-d8
Concen: 52.165 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. 0.000 min
Lab File: VN086856.D
Acq: 03 Jun 2025 20:36

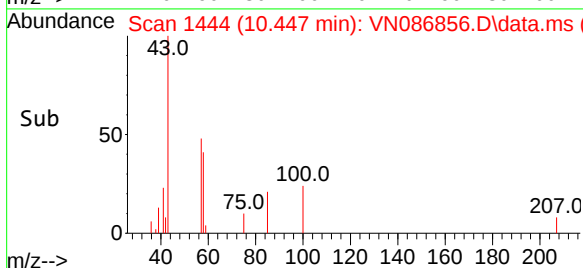
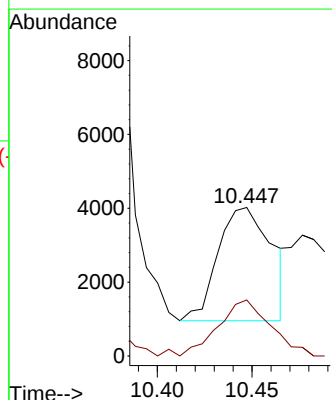
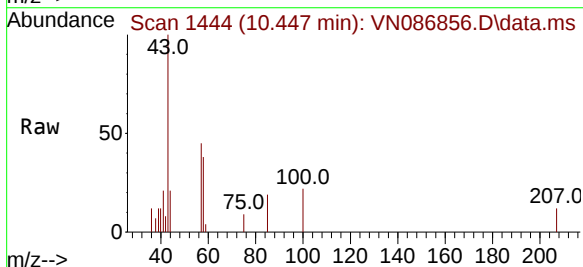
Instrument :
MSVOA_N
ClientSampleId :
B-187-SB02

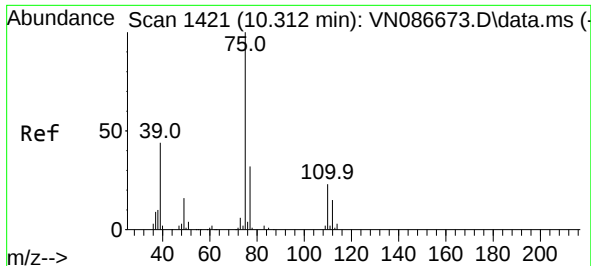
Tgt Ion: 98 Resp: 551649
Ion Ratio Lower Upper
98 100
100 66.7 52.9 79.3



#51
4-Methyl-2-Pentanone
Concen: 1.572 ug/l
RT: 10.447 min Scan# 1444
Delta R.T. 0.006 min
Lab File: VN086856.D
Acq: 03 Jun 2025 20:36

Tgt Ion: 43 Resp: 6043
Ion Ratio Lower Upper
43 100
58 49.0 33.9 50.9

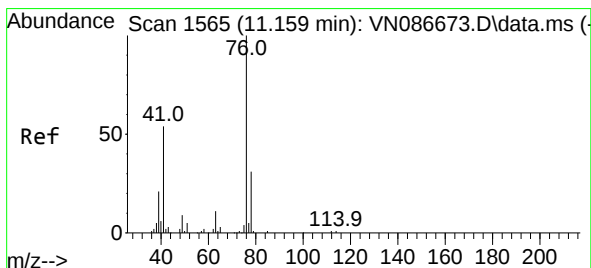
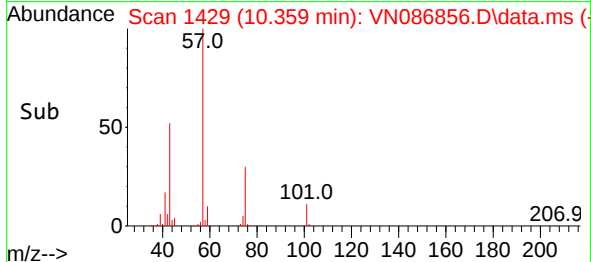
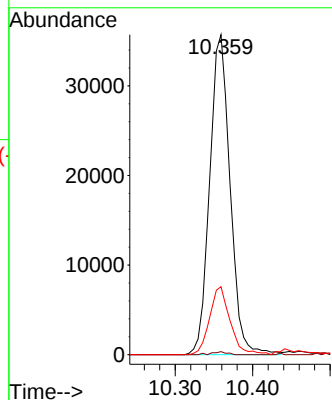
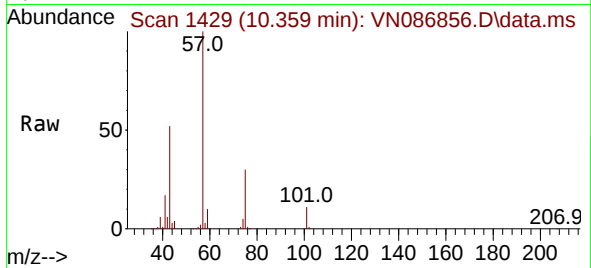




#54
 cis-1,3-Dichloropropene
 Concen: 13.977 ug/l
 RT: 10.359 min Scan# 1429
 Delta R.T. 0.047 min
 Lab File: VN086856.D
 Acq: 03 Jun 2025 20:36

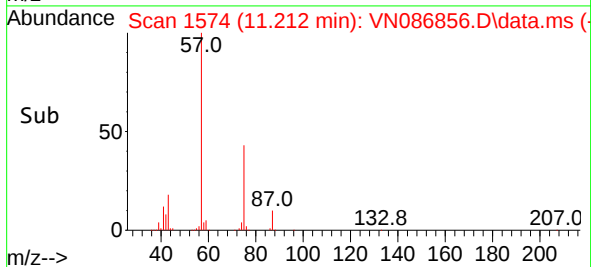
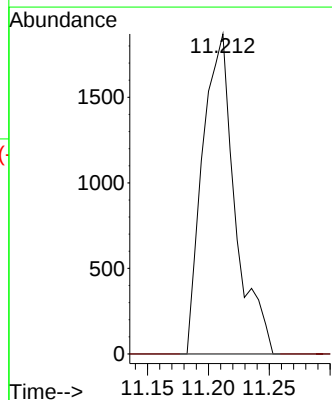
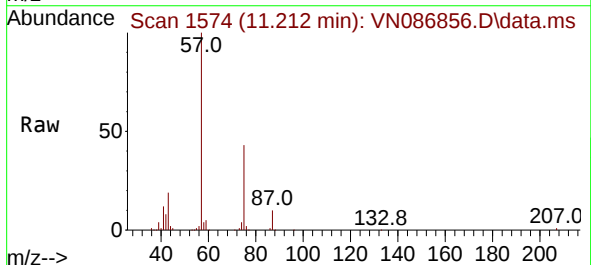
Instrument :
 MSVOA_N
 ClientSampleId :
 B-187-SB02

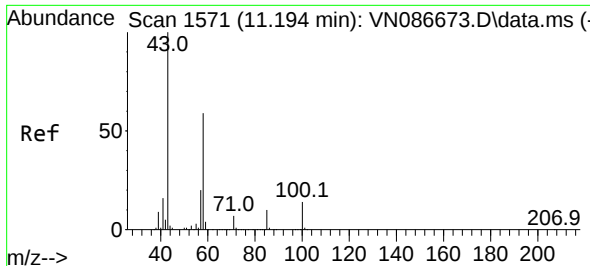
Tgt Ion: 75 Resp: 65516
 Ion Ratio Lower Upper
 75 100
 77 1.0 25.3 37.9#
 39 21.2 35.2 52.8#



#57
 1,3-Dichloropropane
 Concen: 0.708 ug/l
 RT: 11.212 min Scan# 1574
 Delta R.T. 0.053 min
 Lab File: VN086856.D
 Acq: 03 Jun 2025 20:36

Tgt Ion: 76 Resp: 3471
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.8 38.8#

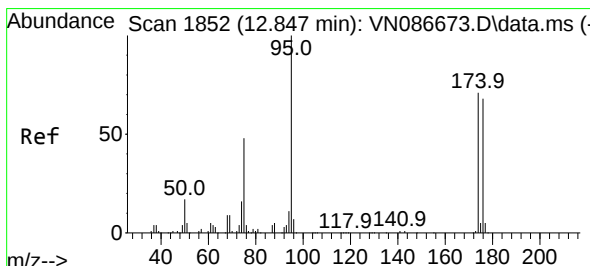
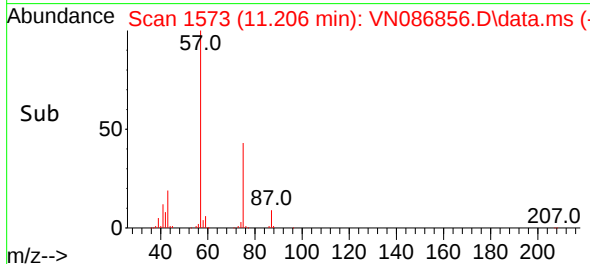
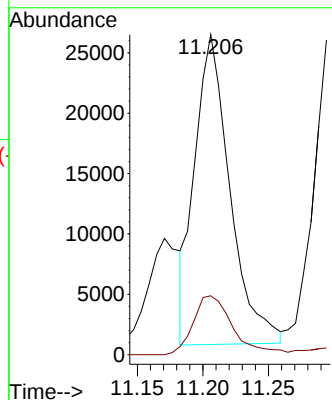
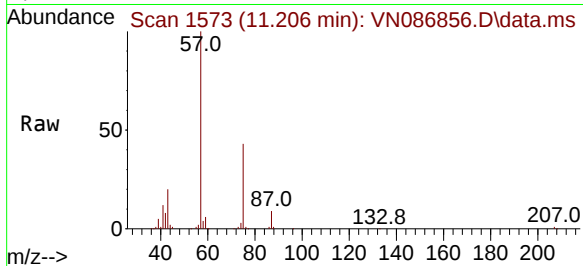




#59
2-Hexanone
Concen: 17.062 ug/l
RT: 11.206 min Scan# 11
Delta R.T. 0.012 min
Lab File: VN086856.D
Acq: 03 Jun 2025 20:36

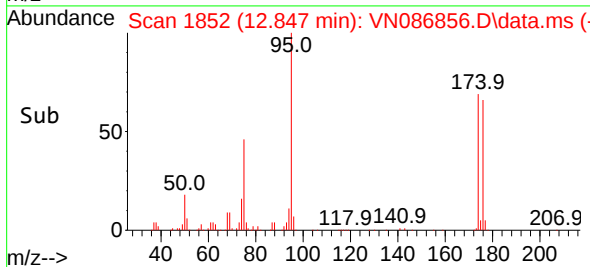
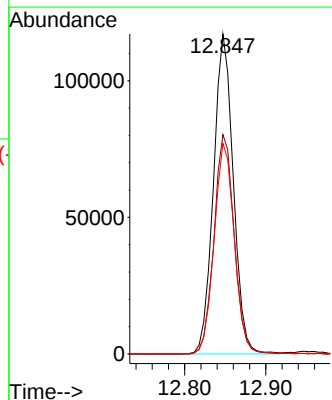
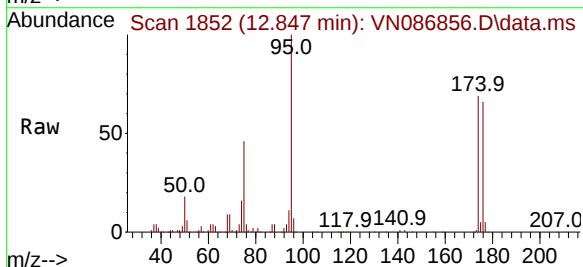
Instrument :
MSVOA_N
ClientSampleId :
B-187-SB02

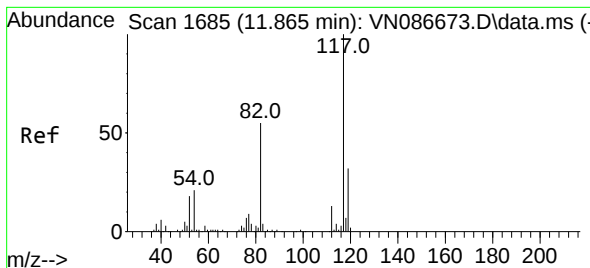
Tgt Ion: 43 Resp: 47894
Ion Ratio Lower Upper
43 100
58 21.4 29.8 89.5#



#62
4-Bromofluorobenzene
Concen: 53.247 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN086856.D
Acq: 03 Jun 2025 20:36

Tgt Ion: 95 Resp: 198824
Ion Ratio Lower Upper
95 100
174 69.4 0.0 145.4
176 67.2 0.0 137.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.865 min Scan# 1

Delta R.T. 0.000 min

Lab File: VN086856.D

Acq: 03 Jun 2025 20:36

Instrument :

MSVOA_N

ClientSampleId :

B-187-SB02

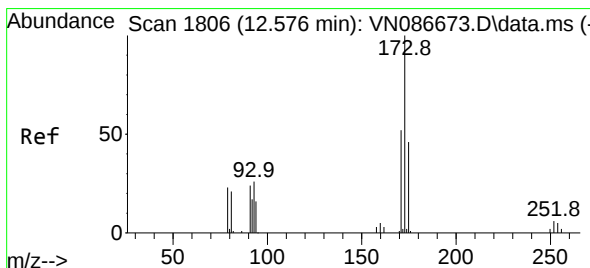
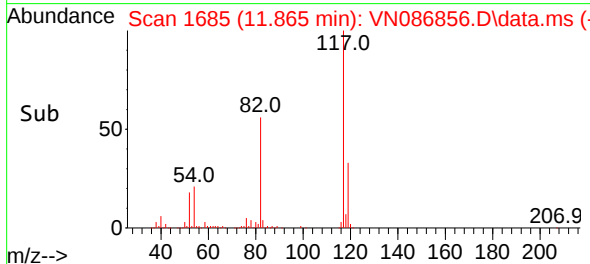
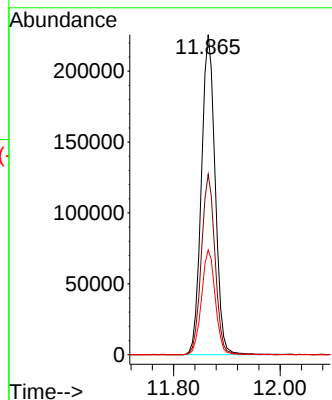
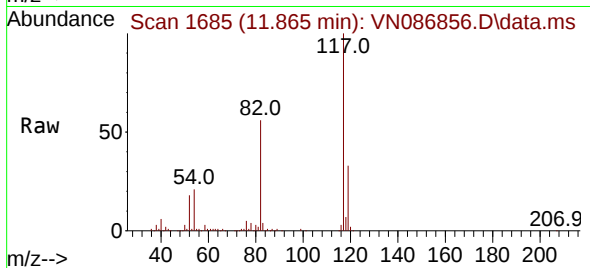
Tgt Ion:117 Resp: 404884

Ion Ratio Lower Upper

117 100

82 56.4 44.2 66.2

119 32.8 25.4 38.2



#71

Bromoform

Concen: 0.440 ug/l

RT: 12.847 min Scan# 1852

Delta R.T. 0.271 min

Lab File: VN086856.D

Acq: 03 Jun 2025 20:36

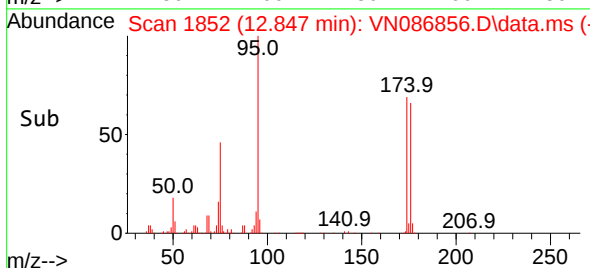
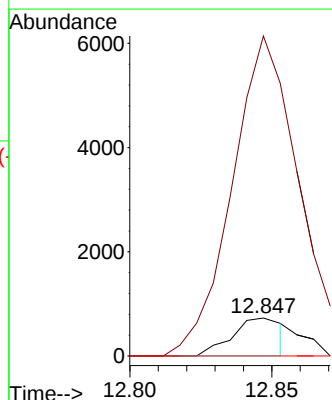
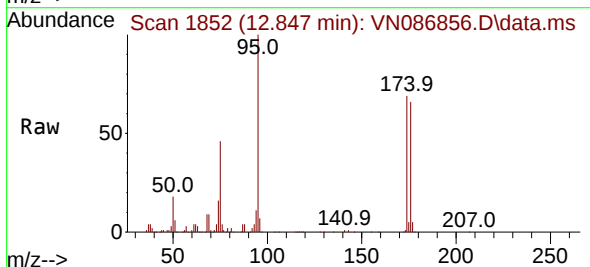
Tgt Ion:173 Resp: 897

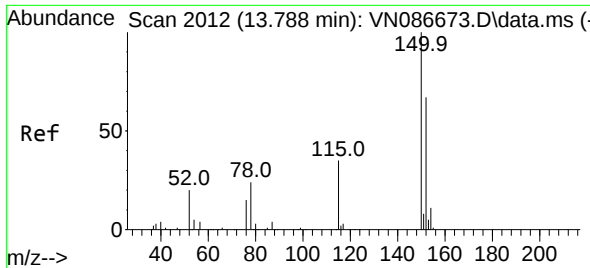
Ion Ratio Lower Upper

173 100

175 850.5 23.4 70.2#

254 0.0 0.0 0.0

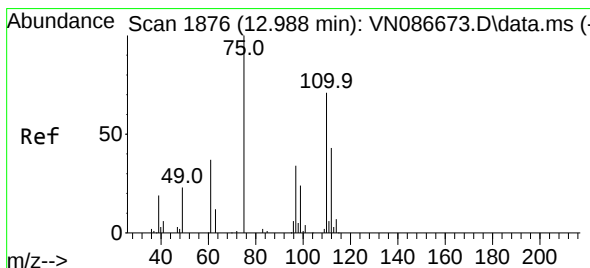
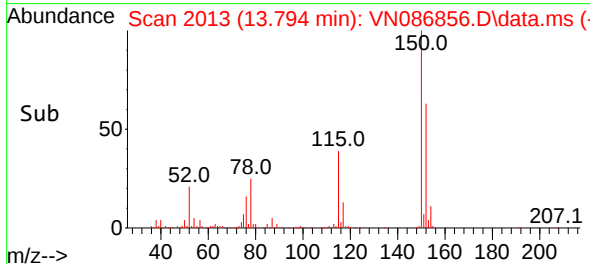
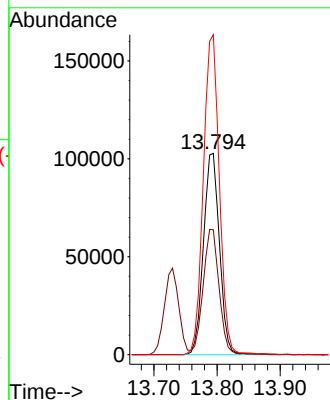
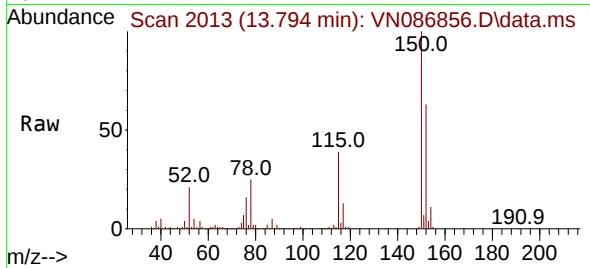




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.794 min Scan# 2012
 Delta R.T. 0.006 min
 Lab File: VN086856.D
 Acq: 03 Jun 2025 20:36

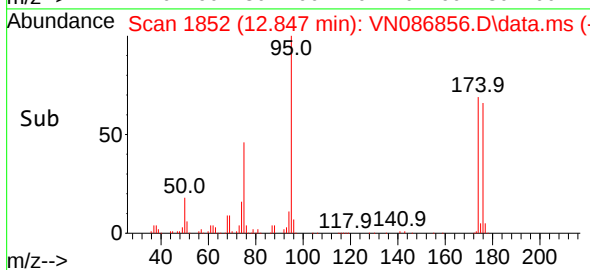
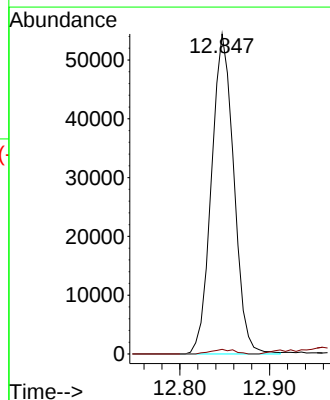
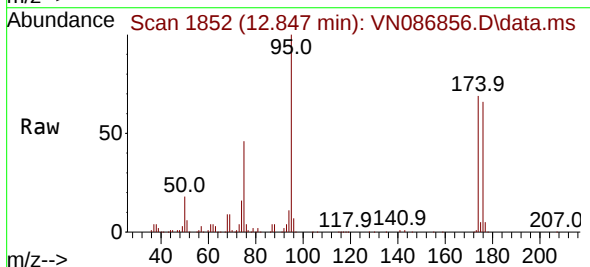
Instrument :
 MSVOA_N
 ClientSampleId :
 B-187-SB02

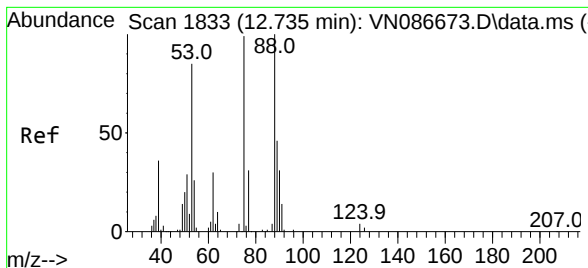
Tgt Ion:152 Resp: 181011
 Ion Ratio Lower Upper
 152 100
 115 61.8 30.0 90.1
 150 159.1 0.0 347.8



#76
 1,2,3-Trichloropropane
 Concen: 23.045 ug/l
 RT: 12.847 min Scan# 1852
 Delta R.T. -0.141 min
 Lab File: VN086856.D
 Acq: 03 Jun 2025 20:36

Tgt Ion: 75 Resp: 94342
 Ion Ratio Lower Upper
 75 100
 77 1.5 96.0 288.1#

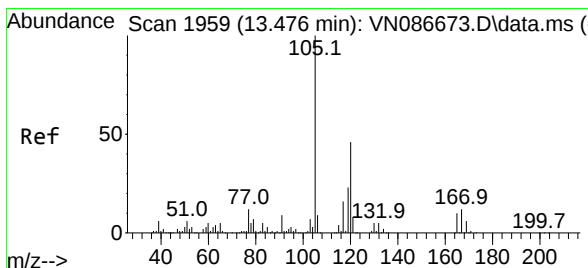
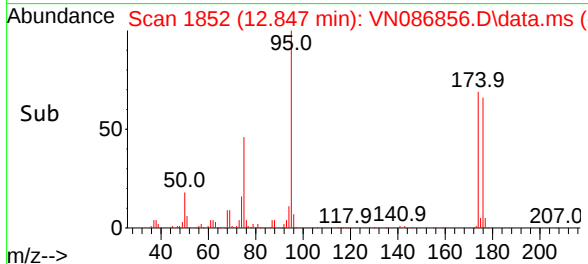
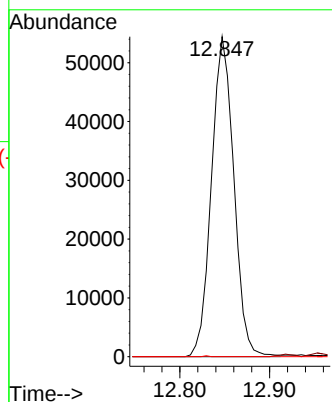
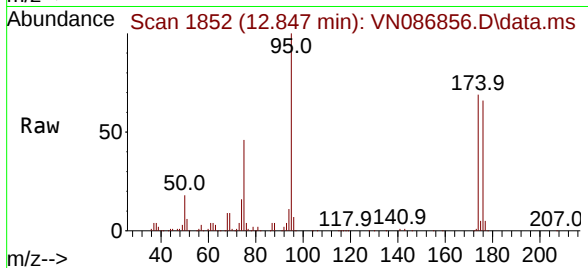




#81
trans-1,4-Dichloro-2-butene
Concen: 58.159 ug/l
RT: 12.847 min Scan# 11
Delta R.T. 0.112 min
Lab File: VN086856.D
Acq: 03 Jun 2025 20:36

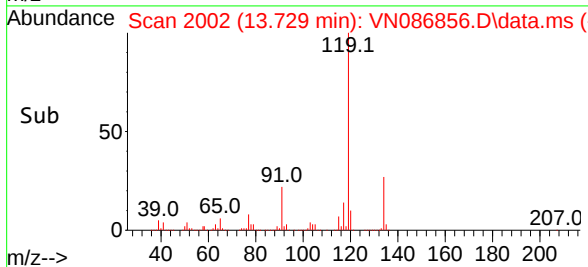
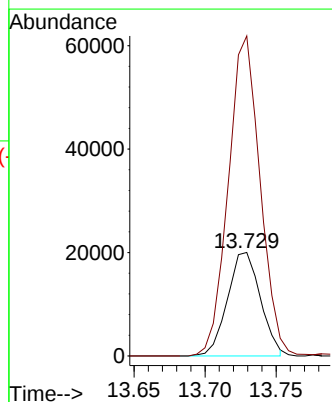
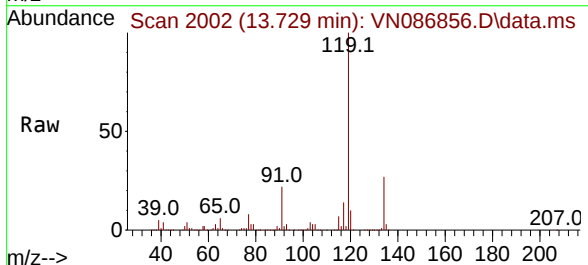
Instrument :
MSVOA_N
ClientSampleId :
B-187-SB02

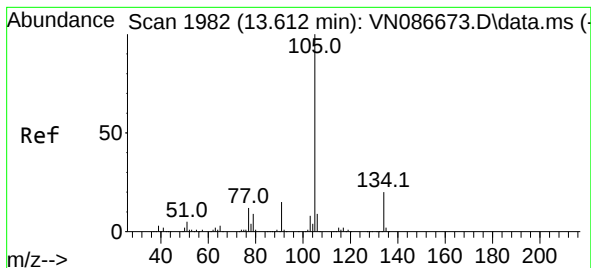
Tgt Ion: 75 Resp: 94342
Ion Ratio Lower Upper
75 100
53 0.0 70.4 105.6#
89 0.1 32.4 48.6#



#84
1,2,4-Trimethylbenzene
Concen: 2.898 ug/l
RT: 13.729 min Scan# 2002
Delta R.T. 0.253 min
Lab File: VN086856.D
Acq: 03 Jun 2025 20:36

Tgt Ion: 105 Resp: 32322
Ion Ratio Lower Upper
105 100
120 296.5 23.2 69.6#





#85

sec-Butylbenzene

Concen: 2.474 ug/l

RT: 13.729 min Scan# 2002

Delta R.T. 0.118 min

Lab File: VN086856.D

Acq: 03 Jun 2025 20:36

Instrument :

MSVOA_N

ClientSampleId :

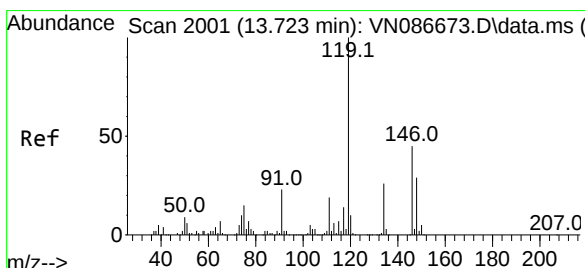
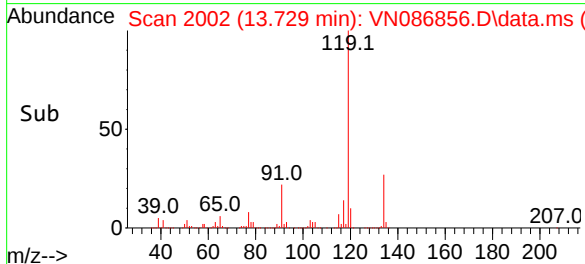
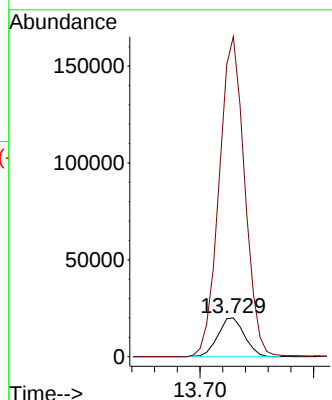
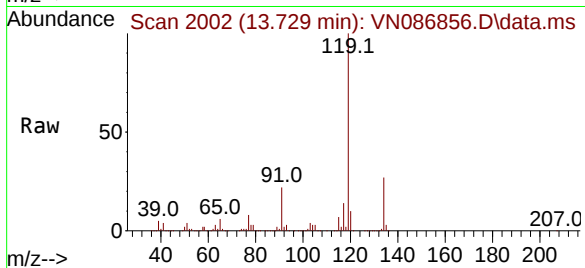
B-187-SB02

Tgt Ion:105 Resp: 32408

Ion Ratio Lower Upper

105 100

134 799.6 10.1 30.1#



#86

p-Isopropyltoluene

Concen: 91.836 ug/l

RT: 13.729 min Scan# 2002

Delta R.T. 0.006 min

Lab File: VN086856.D

Acq: 03 Jun 2025 20:36

Tgt Ion:119 Resp: 985932

Ion Ratio Lower Upper

119 100

134 26.3 13.1 39.1

91 22.9 11.5 34.5

