

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102725\
 Data File : VN088114.D
 Acq On : 27 Oct 2025 15:15
 Operator : JC\MD
 Sample : Q3440-04
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 JB-2

Quant Time: Oct 28 01:28:20 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N102325W.M
 Quant Title : SW846 8260
 QLast Update : Sat Oct 25 00:15:22 2025
 Response via : Initial Calibration

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

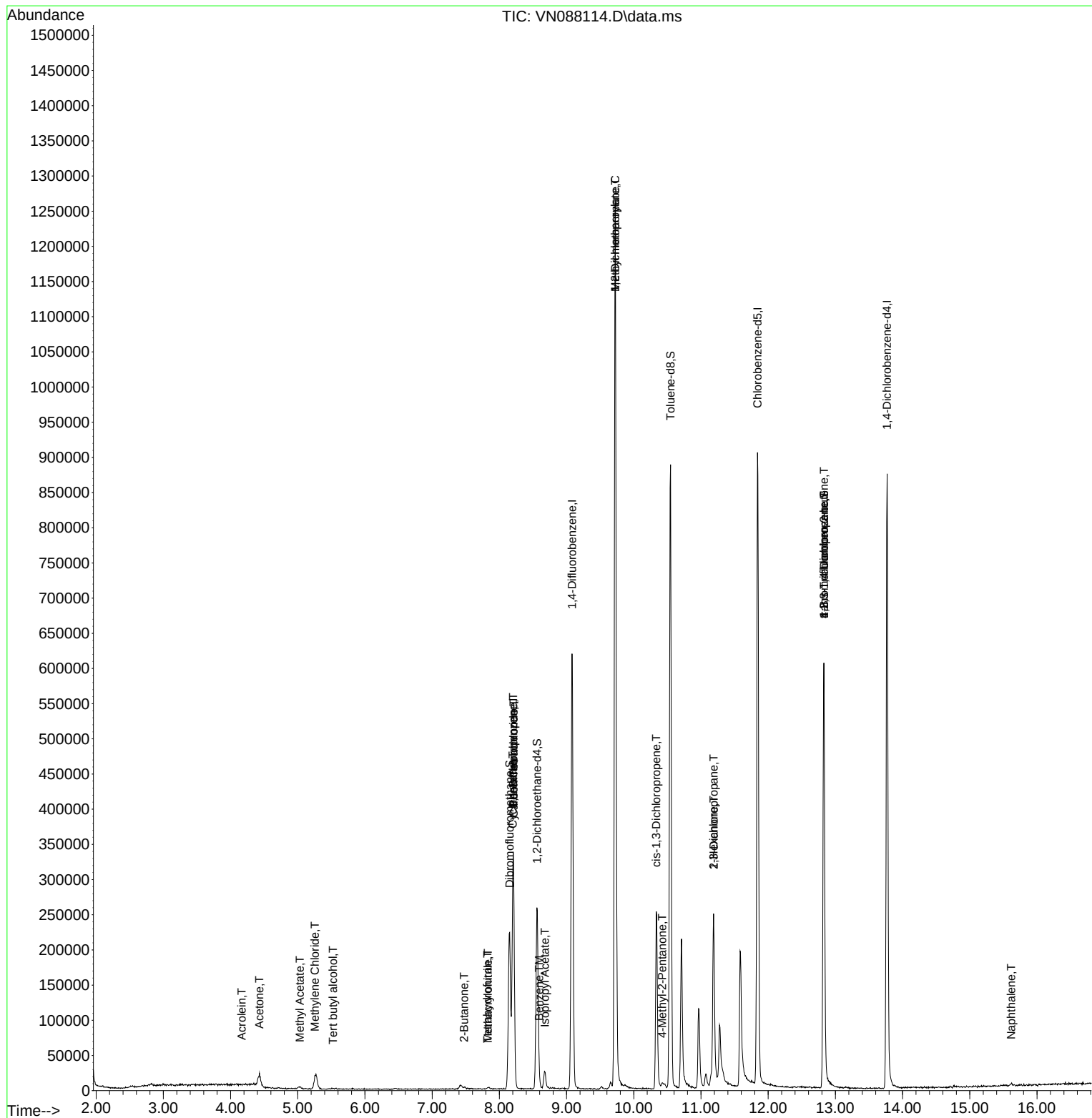
Internal Standards						
1) Pentafluorobenzene	8.206	168	222769	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.082	114	503015	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.841	117	491376	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.770	152	232205	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.559	65	213416	55.402	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 110.800%			
35) Dibromofluoromethane	8.153	113	161949	47.924	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 95.840%			
50) Toluene-d8	10.547	98	588253	45.177	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 90.360%			
62) 4-Bromofluorobenzene	12.829	95	223000	48.494	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 96.980%			
Target Compounds						
					Qvalue	
11) Tert butyl alcohol	5.524	59	430	0.648	ug/l #	71
13) Acrolein	4.165	56	176	0.236	ug/l #	1
16) Acetone	4.430	43	30711	15.869	ug/l	100
18) Methyl Acetate	5.030	43	4958	1.251	ug/l	100
20) Methylene Chloride	5.253	84	8047	3.403	ug/l #	88
25) 2-Butanone	7.477	43	3869	1.517	ug/l #	84
29) Tetrahydrofuran	7.824	42	1801	1.084	ug/l #	64
31) Cyclohexane	8.200	56	7298	1.353	ug/l #	24
36) 1,1-Dichloropropene	8.206	75	22746	4.610	ug/l #	51
38) Carbon Tetrachloride	8.212	117	26530	5.206	ug/l #	13
40) Benzene	8.594	78	4760	0.317	ug/l #	80
41) Methacrylonitrile	7.830	41	784	0.234	ug/l #	42
43) Isopropyl Acetate	8.677	43	29127	2.977	ug/l	94
45) 1,2-Dichloropropane	9.724	63	1726	0.455	ug/l #	43
48) Methyl methacrylate	9.724	41	123635	27.370	ug/l #	48
51) 4-Methyl-2-Pentanone	10.424	43	3510	0.606	ug/l #	57
54) cis-1,3-Dichloropropene	10.335	75	44816	7.325	ug/l #	66
57) 1,3-Dichloropropane	11.188	76	3104	0.502	ug/l #	42
59) 2-Hexanone	11.188	43	44438	11.573	ug/l #	52
76) 1,2,3-Trichloropropane	12.829	75	127174	23.955	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.829	75	127174	66.823	ug/l #	1
95) Naphthalene	15.617	128	3170	0.206	ug/l	95

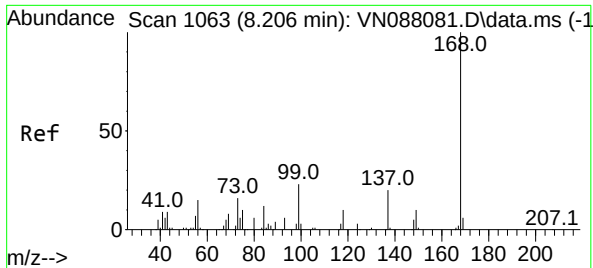
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Oct 28 01:28:20 2025
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Quant Title : SW846 8260
QLast Update : Sat Oct 25 00:15:22 2025
Response via : Initial Calibration

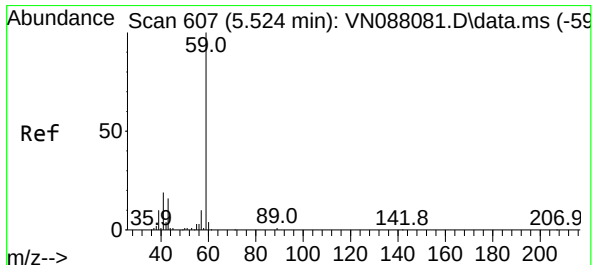
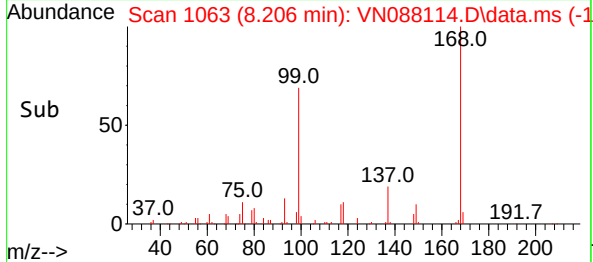
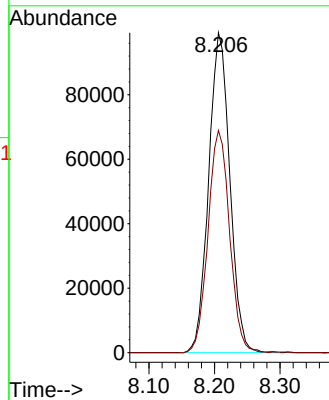
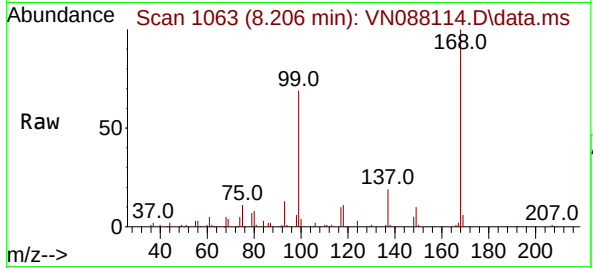




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.206 min Scan# 1063
Delta R.T. 0.000 min
Lab File: VN088114.D
Acq: 27 Oct 2025 15:15

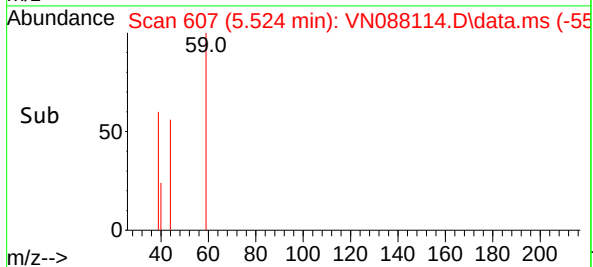
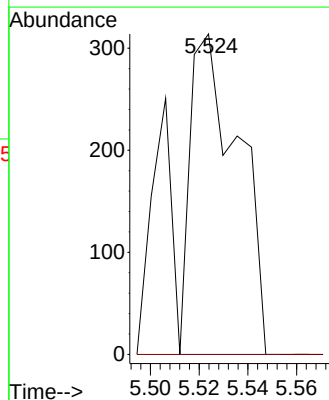
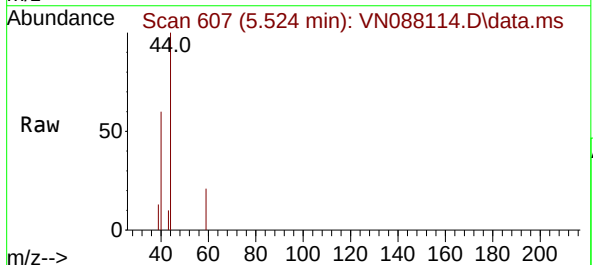
Instrument :
MSVOA_N
ClientSampleId :
JB-2

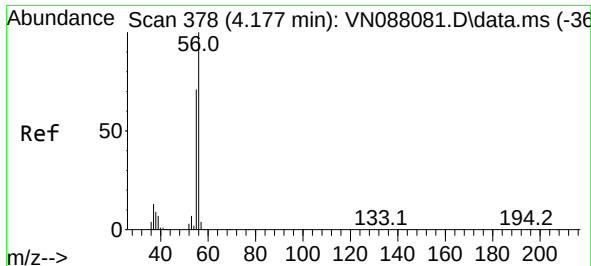
Tgt Ion:168 Resp: 222769
Ion Ratio Lower Upper
168 100
99 69.4 57.2 85.8



#11
Tert butyl alcohol
Concen: 0.648 ug/l
RT: 5.524 min Scan# 607
Delta R.T. 0.006 min
Lab File: VN088114.D
Acq: 27 Oct 2025 15:15

Tgt Ion: 59 Resp: 430
Ion Ratio Lower Upper
59 100
57 0.0 9.0 13.4#

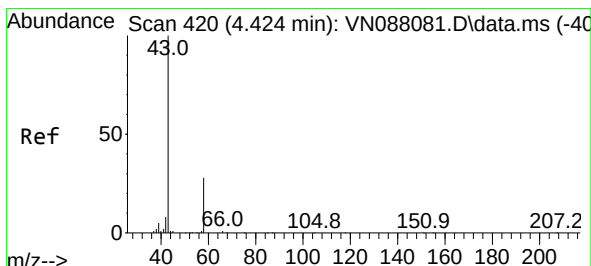
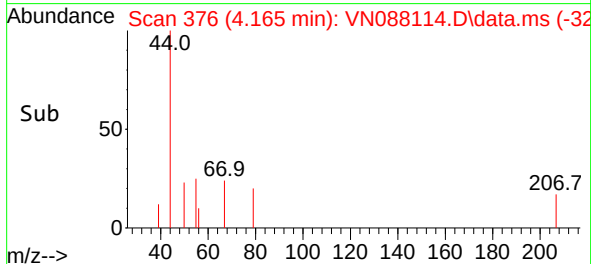
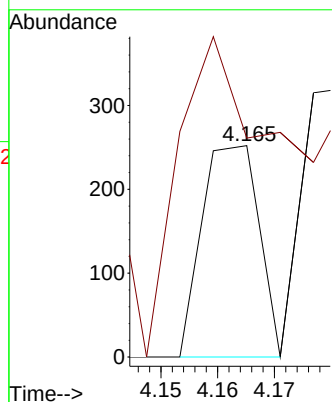
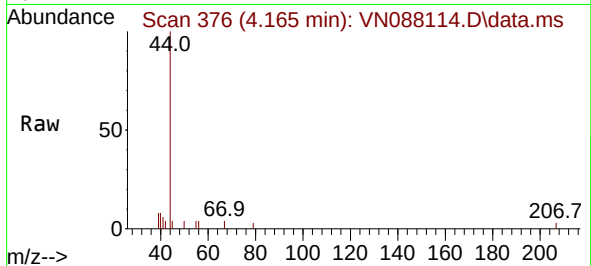




#13
Acrolein
Concen: 0.236 ug/l
RT: 4.165 min Scan# 31
Delta R.T. -0.006 min
Lab File: VN088114.D
Acq: 27 Oct 2025 15:15

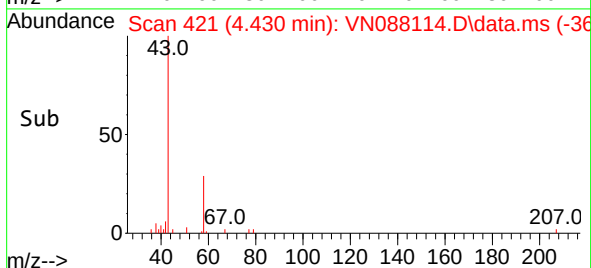
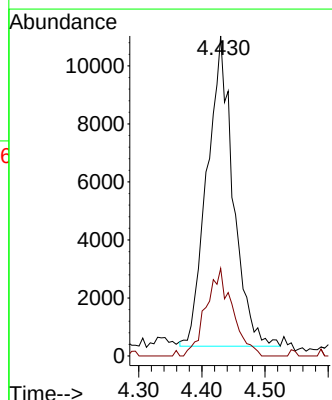
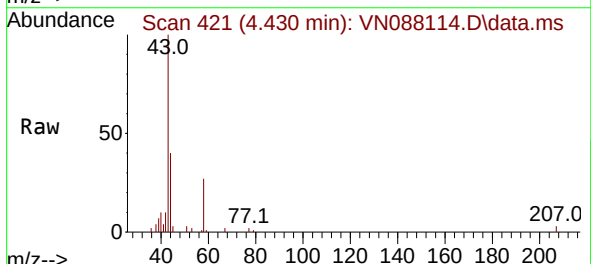
Instrument :
MSVOA_N
ClientSampleId :
JB-2

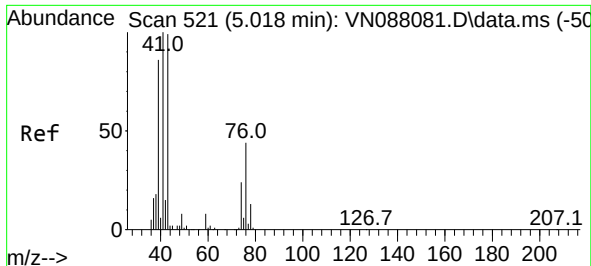
Tgt Ion: 56 Resp: 176
Ion Ratio Lower Upper
56 100
55 283.0 57.3 85.9#



#16
Acetone
Concen: 15.869 ug/l
RT: 4.430 min Scan# 421
Delta R.T. 0.006 min
Lab File: VN088114.D
Acq: 27 Oct 2025 15:15

Tgt Ion: 43 Resp: 30711
Ion Ratio Lower Upper
43 100
58 28.2 22.6 33.8

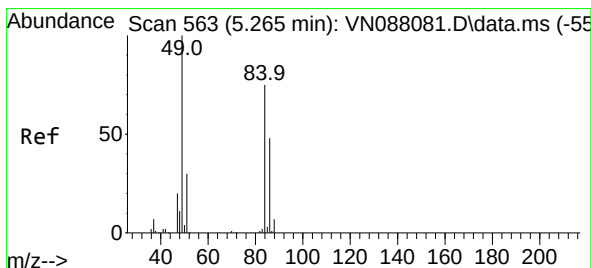
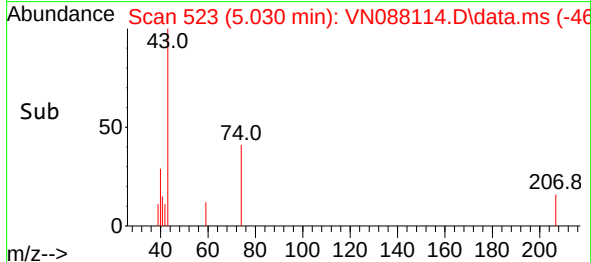
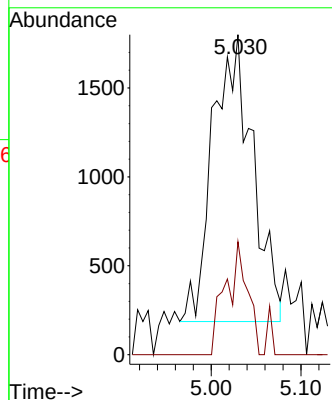
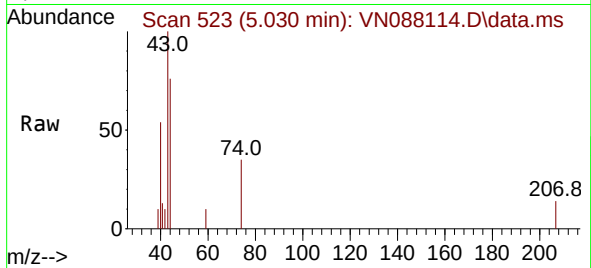




#18
Methyl Acetate
Concen: 1.251 ug/l
RT: 5.030 min Scan# 51
Delta R.T. 0.018 min
Lab File: VN088114.D
Acq: 27 Oct 2025 15:15

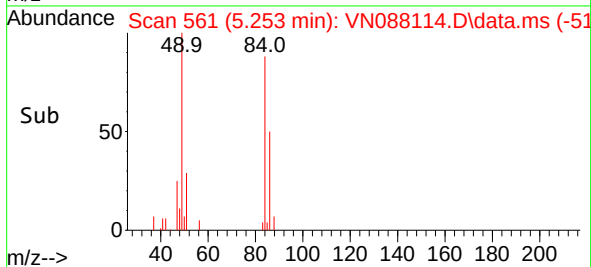
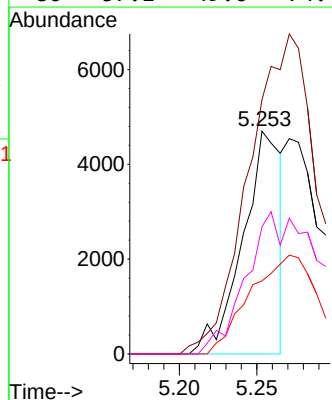
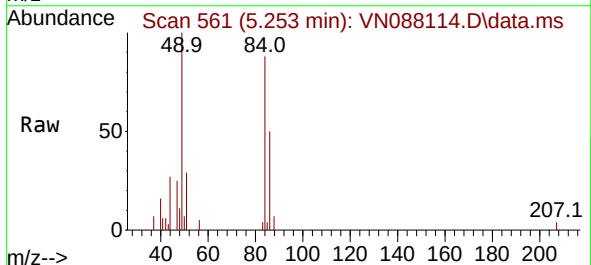
Instrument :
MSVOA_N
ClientSampleId :
JB-2

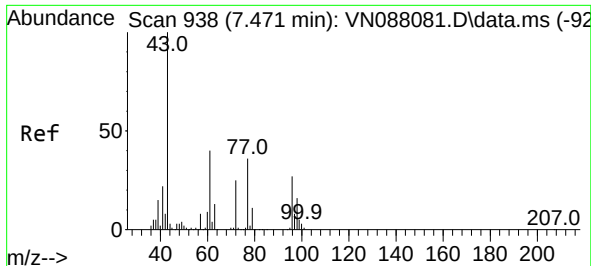
Tgt Ion: 43 Resp: 4958
Ion Ratio Lower Upper
43 100
74 21.8 17.6 26.4



#20
Methylene Chloride
Concen: 3.403 ug/l
RT: 5.253 min Scan# 561
Delta R.T. -0.012 min
Lab File: VN088114.D
Acq: 27 Oct 2025 15:15

Tgt Ion: 84 Resp: 8047
Ion Ratio Lower Upper
84 100
49 114.1 103.4 155.2
51 32.7 33.8 50.8#
86 57.1 49.6 74.4

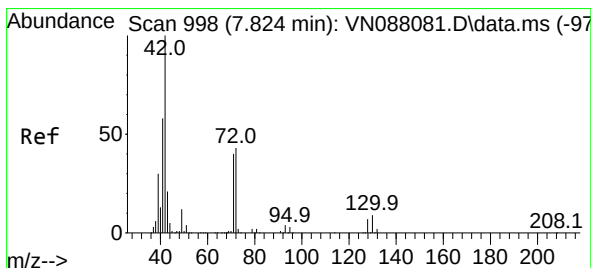
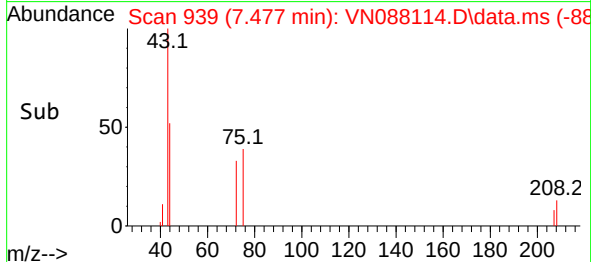
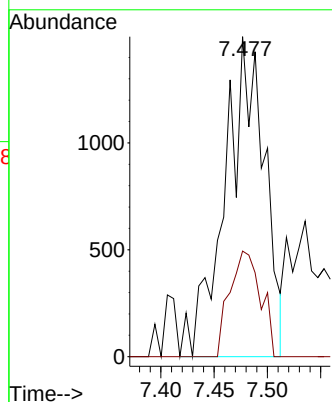
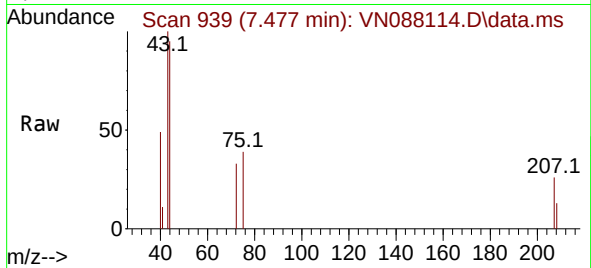




#25
2-Butanone
Concen: 1.517 ug/l
RT: 7.477 min Scan# 938
Delta R.T. 0.012 min
Lab File: VN088114.D
Acq: 27 Oct 2025 15:15

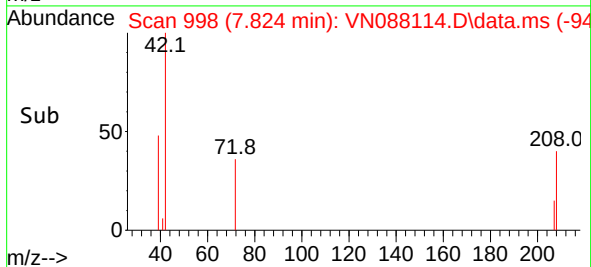
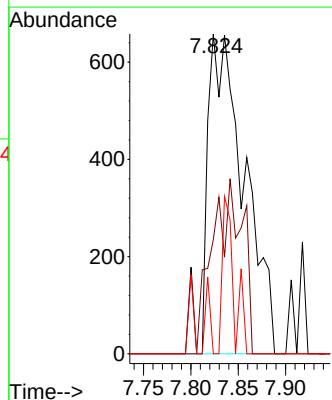
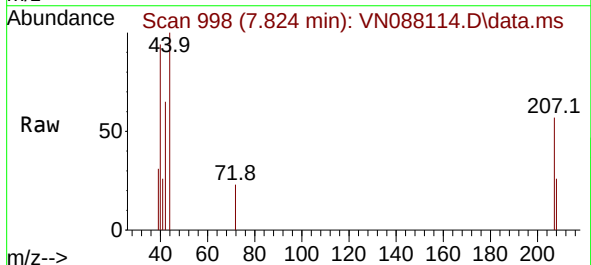
Instrument :
MSVOA_N
ClientSampleId :
JB-2

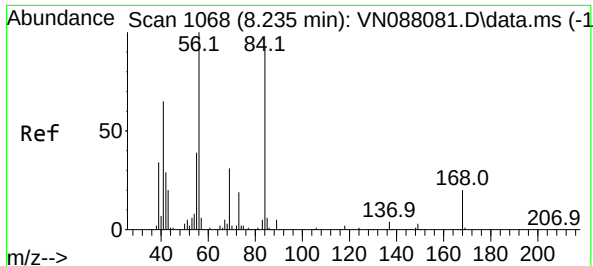
Tgt Ion: 43 Resp: 3869
Ion Ratio Lower Upper
43 100
72 33.0 19.9 29.9#



#29
Tetrahydrofuran
Concen: 1.084 ug/l
RT: 7.824 min Scan# 998
Delta R.T. -0.000 min
Lab File: VN088114.D
Acq: 27 Oct 2025 15:15

Tgt Ion: 42 Resp: 1801
Ion Ratio Lower Upper
42 100
72 21.7 33.7 50.5#
71 15.2 31.9 47.9#

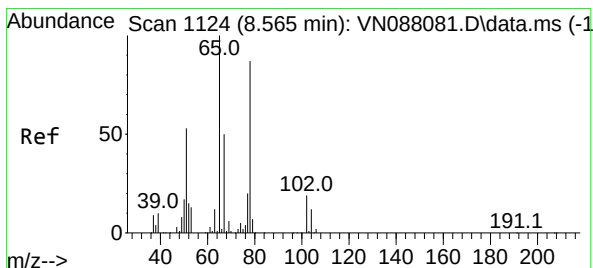
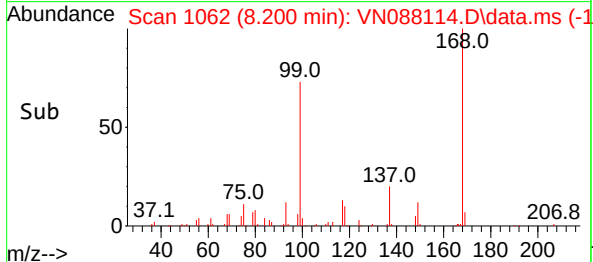
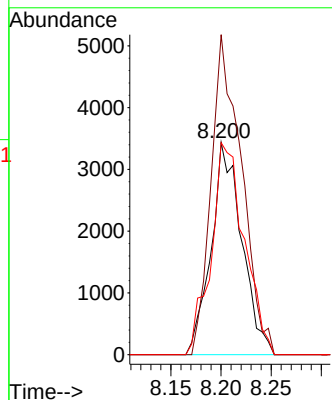
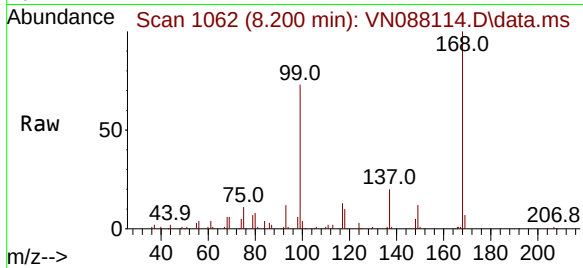




#31
Cyclohexane
Concen: 1.353 ug/l
RT: 8.200 min Scan# 1068
Delta R.T. -0.035 min
Lab File: VN088114.D
Acq: 27 Oct 2025 15:15

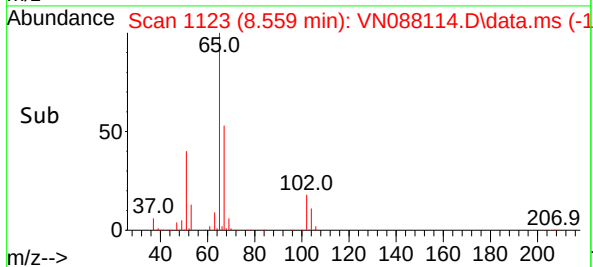
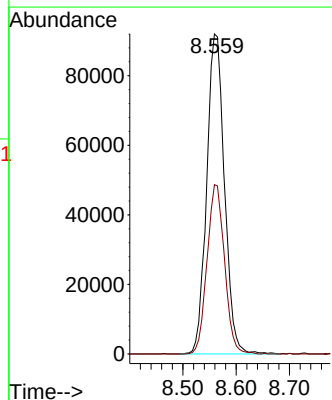
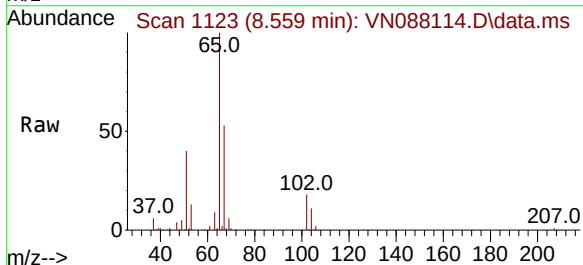
Instrument :
MSVOA_N
ClientSampleId :
JB-2

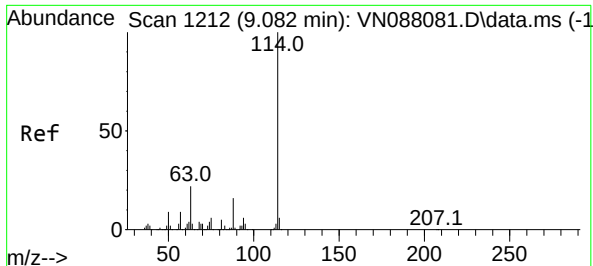
Tgt Ion: 56 Resp: 7298
Ion Ratio Lower Upper
56 100
69 150.8 23.7 35.5#
84 99.9 64.7 97.1#



#33
1,2-Dichloroethane-d4
Concen: 55.402 ug/l
RT: 8.559 min Scan# 1123
Delta R.T. -0.000 min
Lab File: VN088114.D
Acq: 27 Oct 2025 15:15

Tgt Ion: 65 Resp: 213416
Ion Ratio Lower Upper
65 100
67 52.0 0.0 100.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.082 min Scan# 11

Delta R.T. -0.000 min

Lab File: VN088114.D

Acq: 27 Oct 2025 15:15

Instrument :

MSVOA_N

ClientSampleId :

JB-2

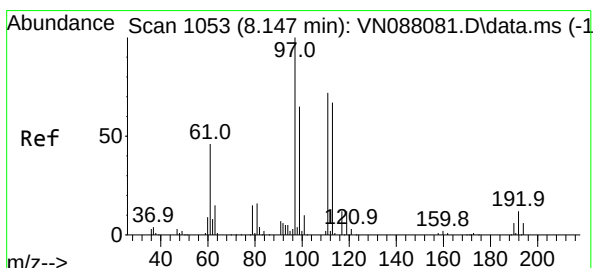
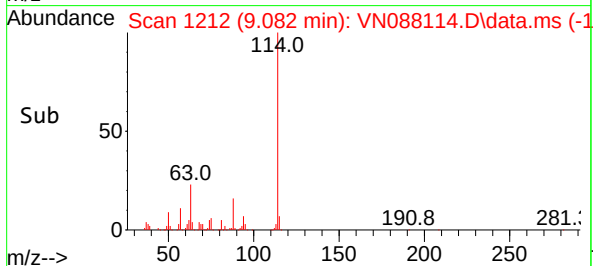
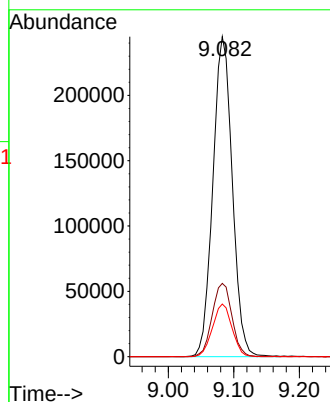
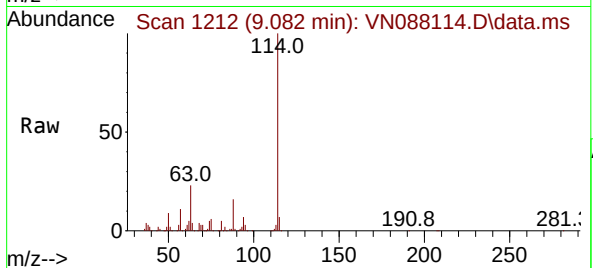
Tgt Ion:114 Resp: 503015

Ion Ratio Lower Upper

114 100

63 22.9 0.0 45.2

88 16.5 0.0 33.4



#35

Dibromofluoromethane

Concen: 47.924 ug/l

RT: 8.153 min Scan# 1054

Delta R.T. -0.000 min

Lab File: VN088114.D

Acq: 27 Oct 2025 15:15

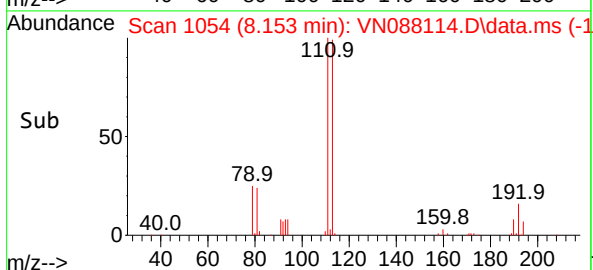
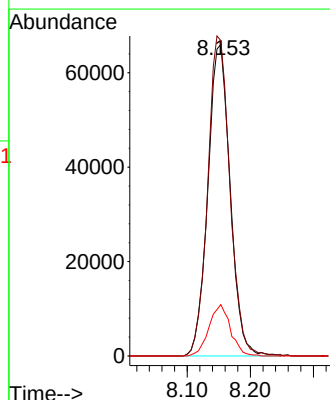
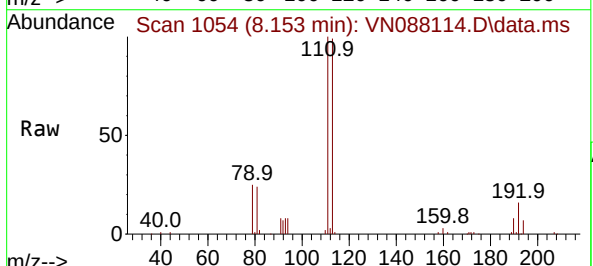
Tgt Ion:113 Resp: 161949

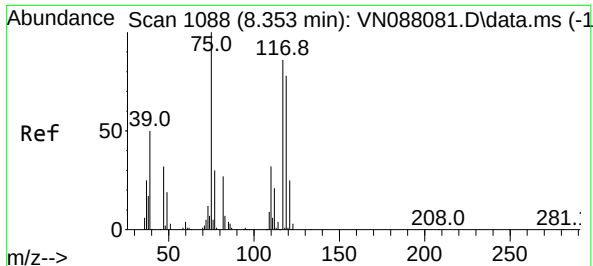
Ion Ratio Lower Upper

113 100

111 102.3 82.8 124.2

192 15.9 12.8 19.2





#36

1,1-Dichloropropene

Concen: 4.610 ug/l

RT: 8.206 min Scan# 1063

Delta R.T. -0.147 min

Lab File: VN088114.D

Acq: 27 Oct 2025 15:15

Instrument :

MSVOA_N

ClientSampleId :

JB-2

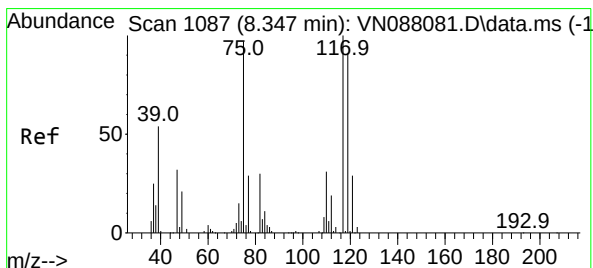
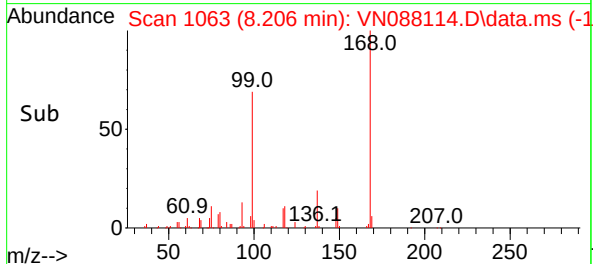
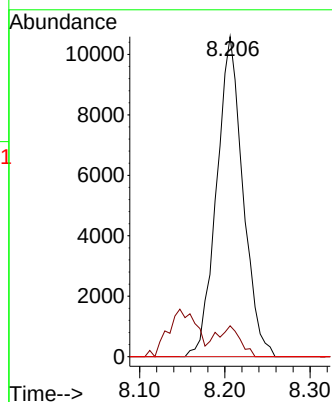
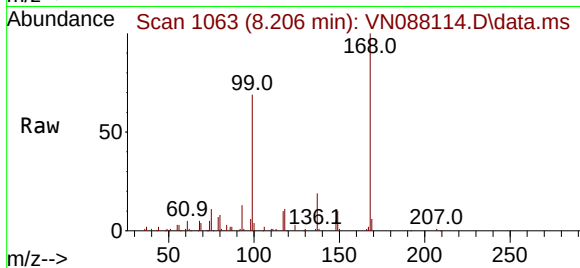
Tgt Ion: 75 Resp: 22746

Ion Ratio Lower Upper

75 100

110 8.1 15.9 47.6#

77 0.0 24.4 36.6#



#38

Carbon Tetrachloride

Concen: 5.206 ug/l

RT: 8.212 min Scan# 1064

Delta R.T. -0.130 min

Lab File: VN088114.D

Acq: 27 Oct 2025 15:15

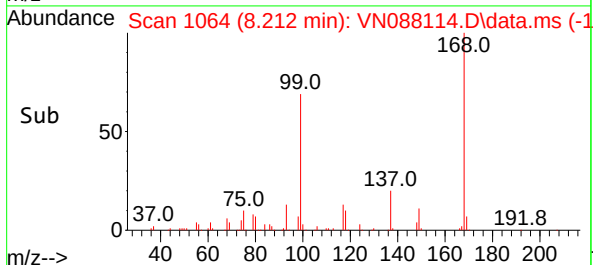
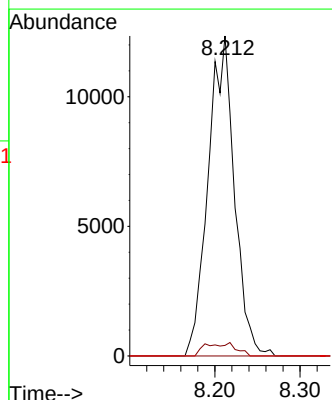
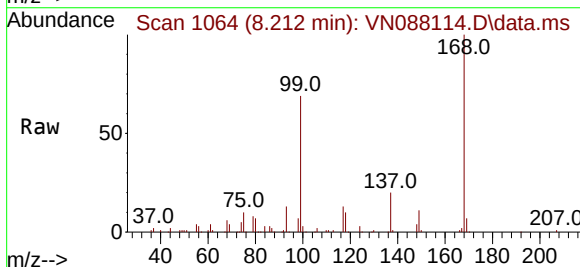
Tgt Ion: 117 Resp: 26530

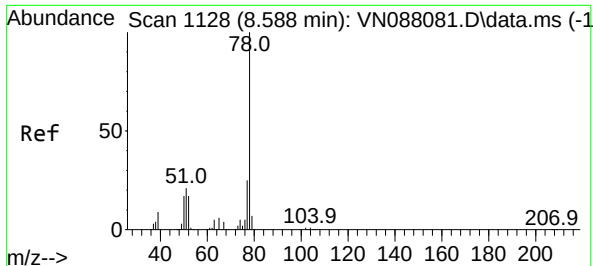
Ion Ratio Lower Upper

117 100

119 3.3 79.0 118.6#

121 0.0 25.0 37.6#

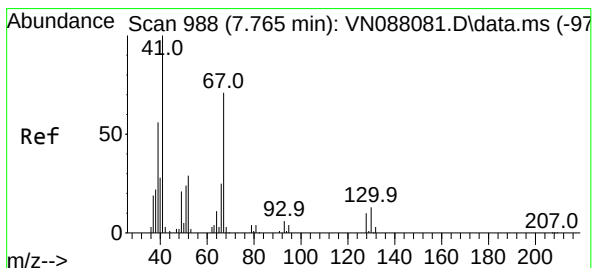
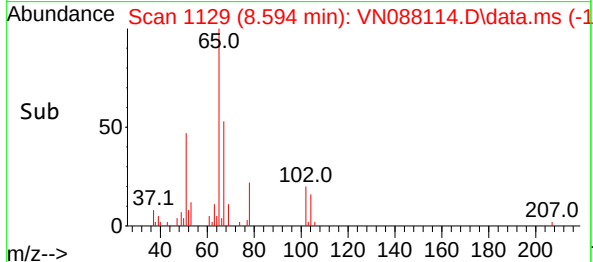
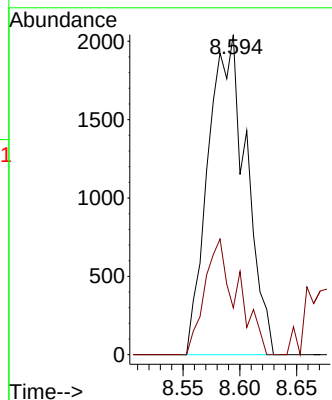
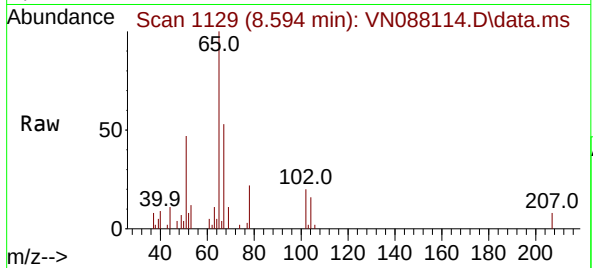




#40
Benzene
Concen: 0.317 ug/l
RT: 8.594 min Scan# 1128
Delta R.T. 0.006 min
Lab File: VN088114.D
Acq: 27 Oct 2025 15:15

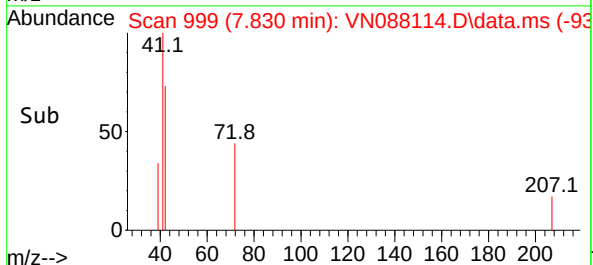
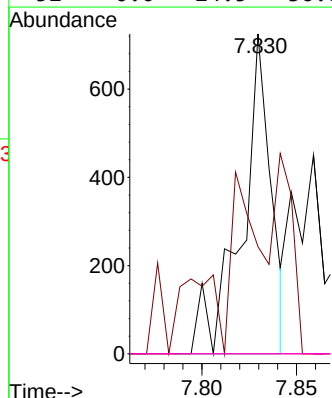
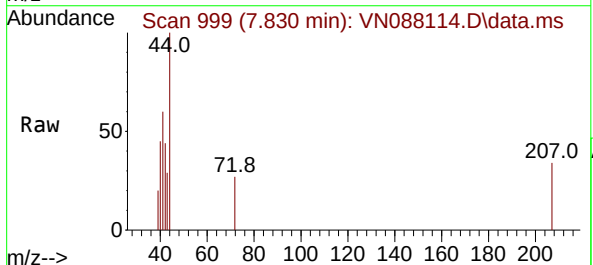
Instrument :
MSVOA_N
ClientSampleId :
JB-2

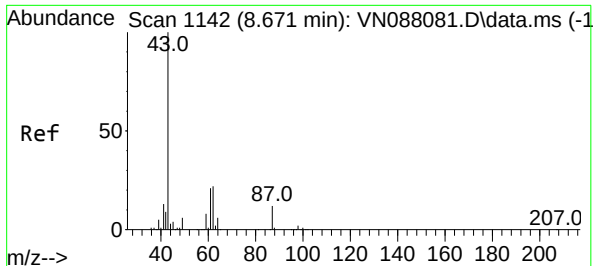
Tgt Ion: 78 Resp: 4760
Ion Ratio Lower Upper
78 100
77 14.6 19.7 29.5#



#41
Methacrylonitrile
Concen: 0.234 ug/l
RT: 7.830 min Scan# 999
Delta R.T. 0.070 min
Lab File: VN088114.D
Acq: 27 Oct 2025 15:15

Tgt Ion: 41 Resp: 784
Ion Ratio Lower Upper
41 100
39 36.6 45.4 68.0#
67 0.0 55.3 82.9#
52 0.0 24.5 36.7#





#43

Isopropyl Acetate

Concen: 2.977 ug/l

RT: 8.677 min Scan# 1143

Delta R.T. 0.006 min

Lab File: VN088114.D

Acq: 27 Oct 2025 15:15

Instrument :

MSVOA_N

ClientSampleId :

JB-2

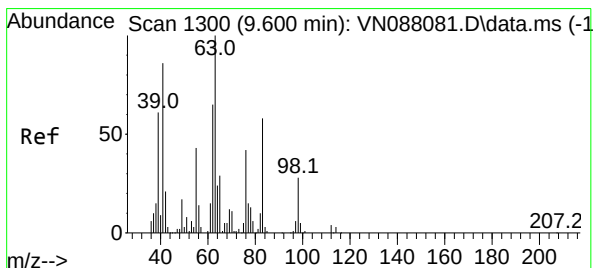
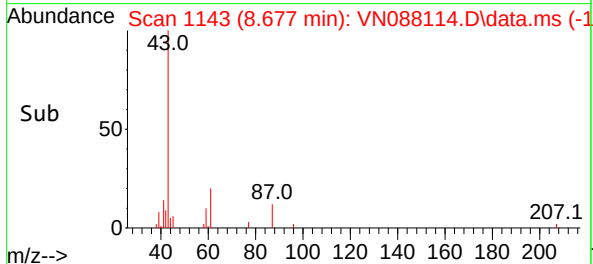
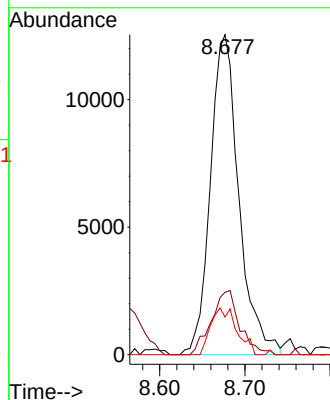
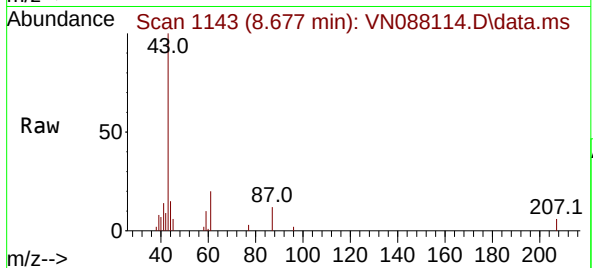
Tgt Ion: 43 Resp: 29127

Ion Ratio Lower Upper

43 100

61 20.0 18.8 28.2

87 13.4 9.6 14.4



#45

1,2-Dichloropropane

Concen: 0.455 ug/l

RT: 9.724 min Scan# 1321

Delta R.T. 0.123 min

Lab File: VN088114.D

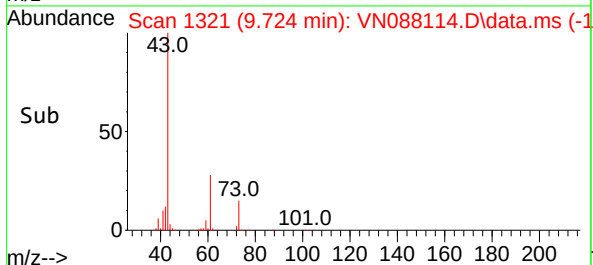
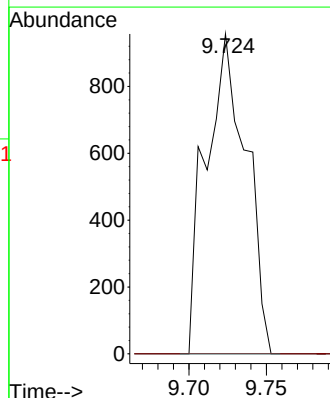
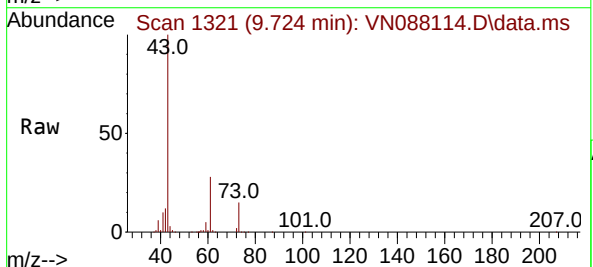
Acq: 27 Oct 2025 15:15

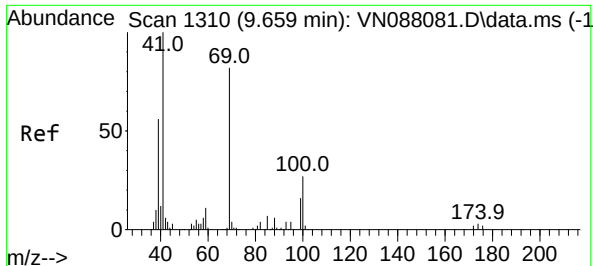
Tgt Ion: 63 Resp: 1726

Ion Ratio Lower Upper

63 100

65 0.0 25.0 37.4#

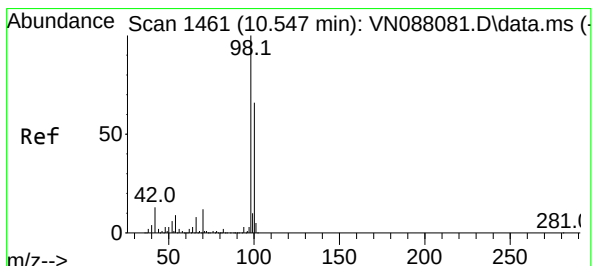
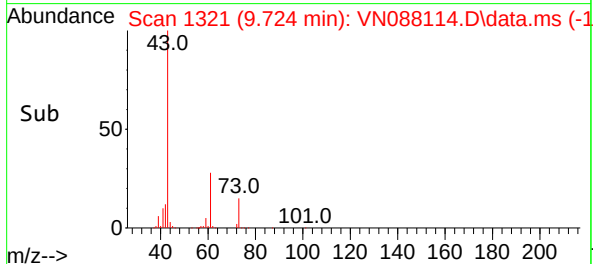
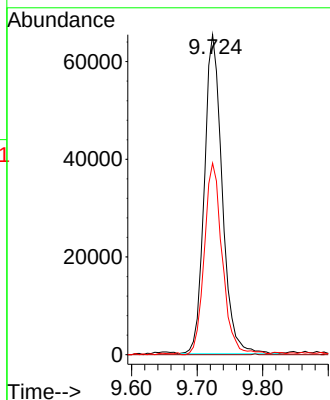
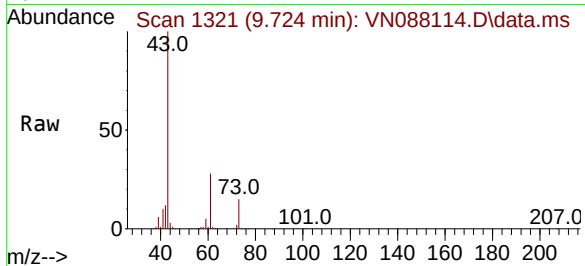




#48
Methyl methacrylate
Concen: 27.370 ug/l
RT: 9.724 min Scan# 11
Delta R.T. 0.059 min
Lab File: VN088114.D
Acq: 27 Oct 2025 15:15

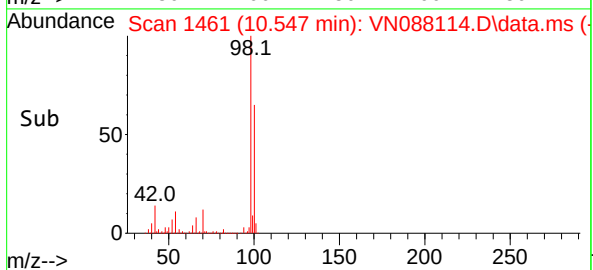
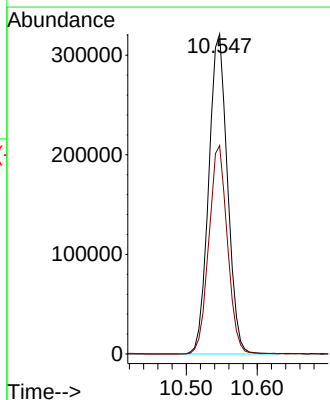
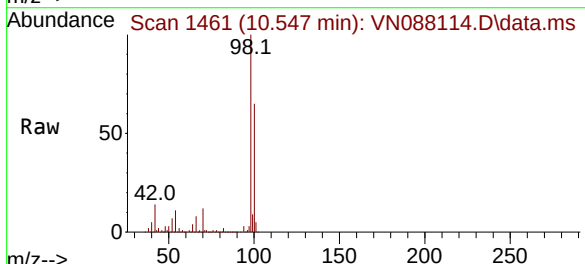
Instrument :
MSVOA_N
ClientSampleId :
JB-2

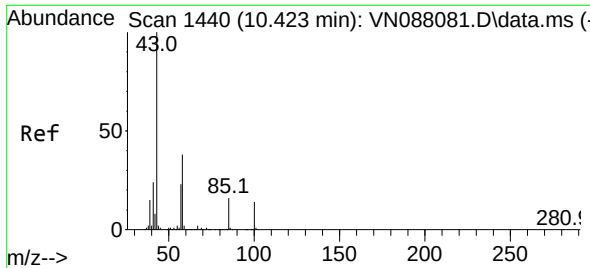
Tgt Ion: 41 Resp: 123635
Ion Ratio Lower Upper
41 100
69 0.0 62.7 94.1#
39 60.7 52.9 79.3



#50
Toluene-d8
Concen: 45.177 ug/l
RT: 10.547 min Scan# 1461
Delta R.T. -0.000 min
Lab File: VN088114.D
Acq: 27 Oct 2025 15:15

Tgt Ion: 98 Resp: 588253
Ion Ratio Lower Upper
98 100
100 64.4 52.8 79.2

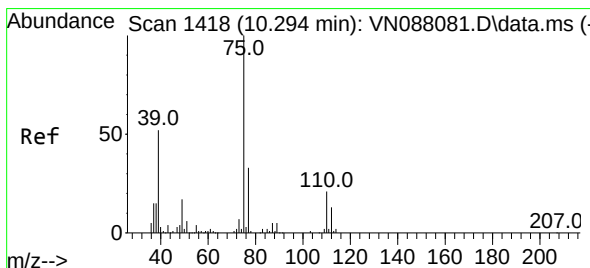
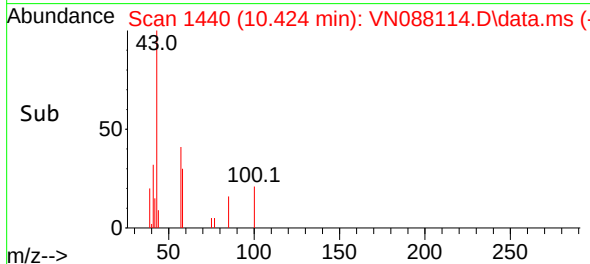
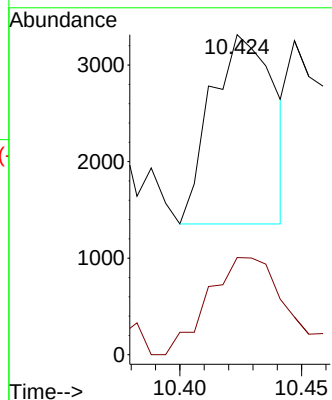
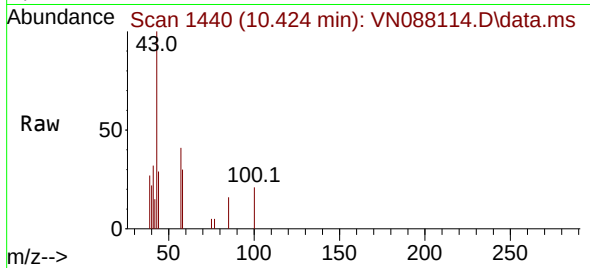




#51
4-Methyl-2-Pentanone
Concen: 0.606 ug/l
RT: 10.424 min Scan# 1440
Delta R.T. -0.000 min
Lab File: VN088114.D
Acq: 27 Oct 2025 15:15

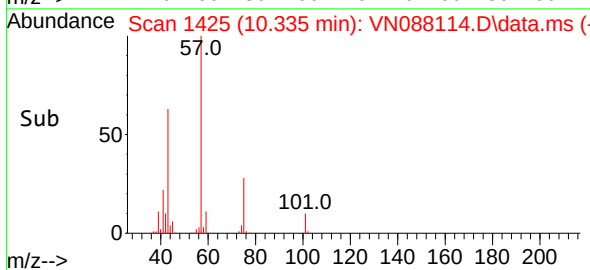
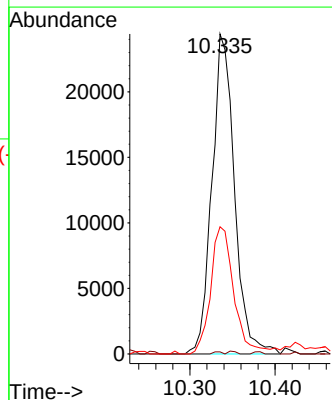
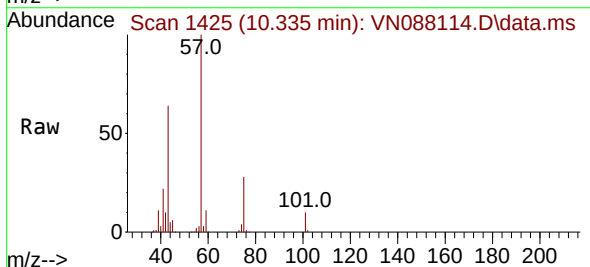
Instrument :
MSVOA_N
ClientSampleId :
JB-2

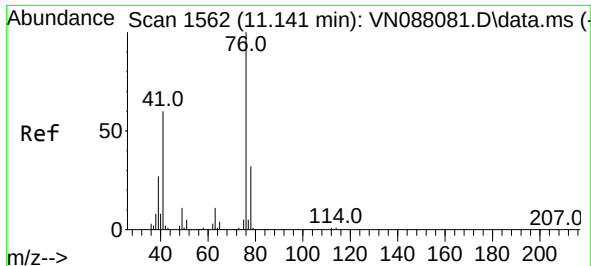
Tgt Ion: 43 Resp: 3510
Ion Ratio Lower Upper
43 100
58 62.8 29.6 44.4#



#54
cis-1,3-Dichloropropene
Concen: 7.325 ug/l
RT: 10.335 min Scan# 1425
Delta R.T. 0.047 min
Lab File: VN088114.D
Acq: 27 Oct 2025 15:15

Tgt Ion: 75 Resp: 44816
Ion Ratio Lower Upper
75 100
77 0.6 24.6 37.0#
39 39.7 45.2 67.8#





#57

1,3-Dichloropropane

Concen: 0.502 ug/l

RT: 11.188 min Scan# 1570

Delta R.T. 0.047 min

Lab File: VN088114.D

Acq: 27 Oct 2025 15:15

Instrument :

MSVOA_N

ClientSampleId :

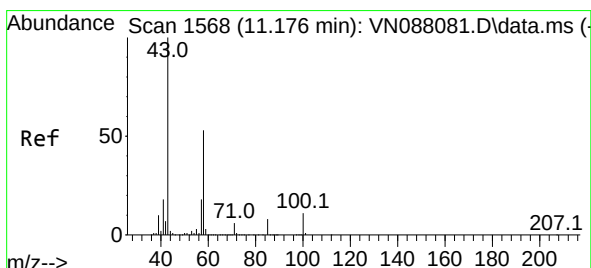
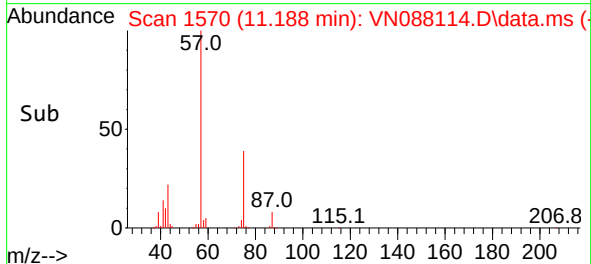
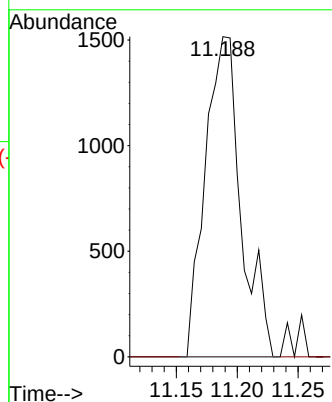
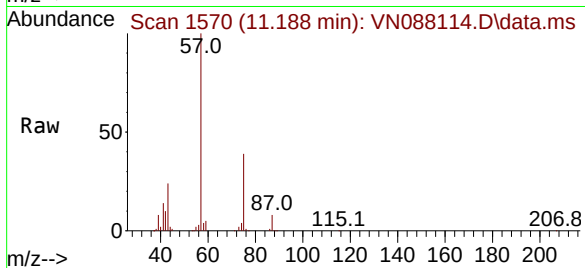
JB-2

Tgt Ion: 76 Resp: 3104

Ion Ratio Lower Upper

76 100

78 0.0 26.2 39.4#



#59

2-Hexanone

Concen: 11.573 ug/l

RT: 11.188 min Scan# 1570

Delta R.T. 0.012 min

Lab File: VN088114.D

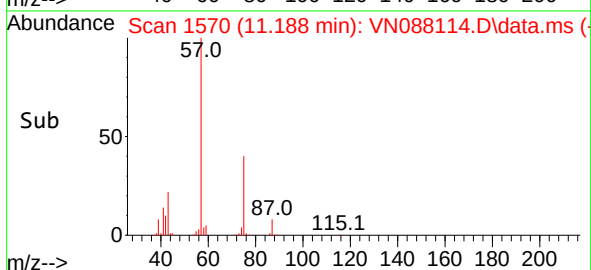
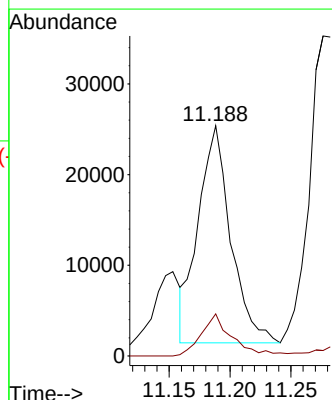
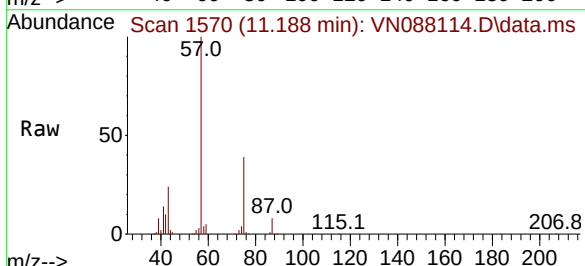
Acq: 27 Oct 2025 15:15

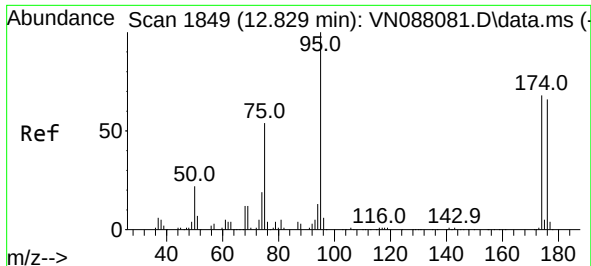
Tgt Ion: 43 Resp: 44438

Ion Ratio Lower Upper

43 100

58 18.4 25.9 77.8#

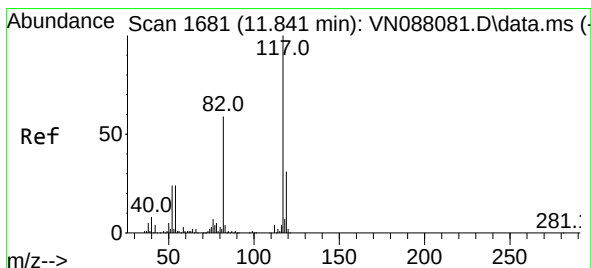
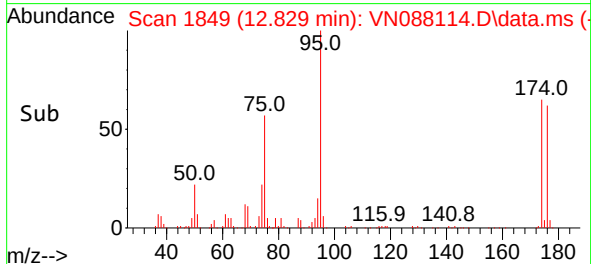
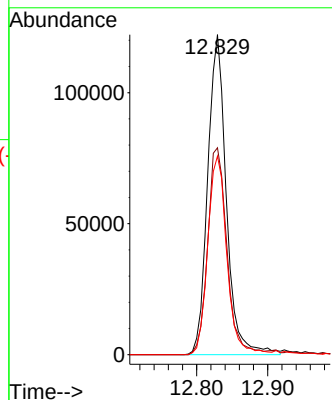
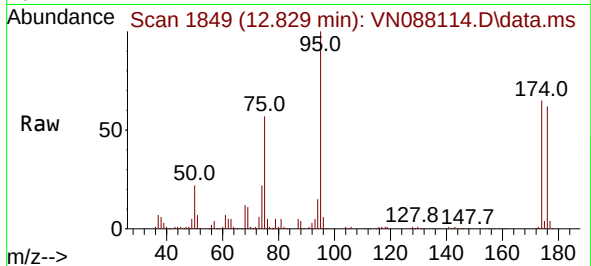




#62
4-Bromofluorobenzene
Concen: 48.494 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.006 min
Lab File: VN088114.D
Acq: 27 Oct 2025 15:15

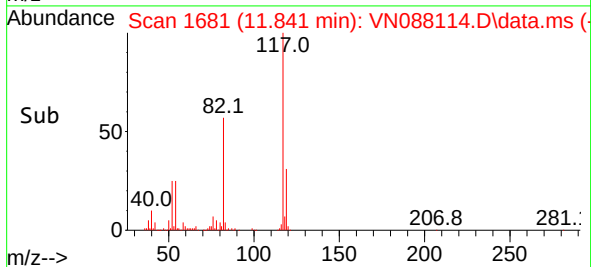
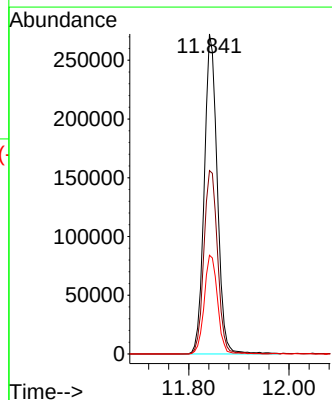
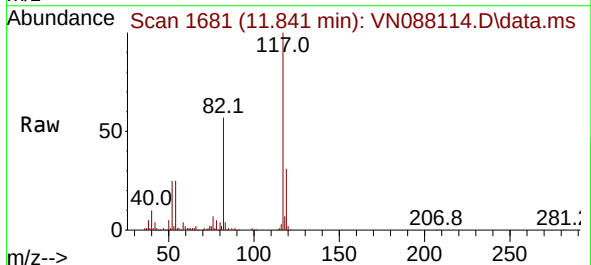
Instrument :
MSVOA_N
ClientSampleId :
JB-2

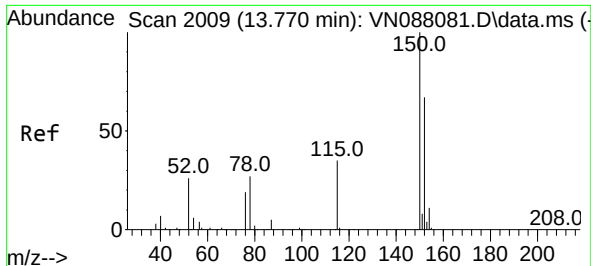
Tgt Ion: 95 Resp: 223000
Ion Ratio Lower Upper
95 100
174 66.6 0.0 138.4
176 63.6 0.0 132.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.841 min Scan# 1681
Delta R.T. -0.000 min
Lab File: VN088114.D
Acq: 27 Oct 2025 15:15

Tgt Ion: 117 Resp: 491376
Ion Ratio Lower Upper
117 100
82 57.3 47.4 71.2
119 30.9 24.3 36.5

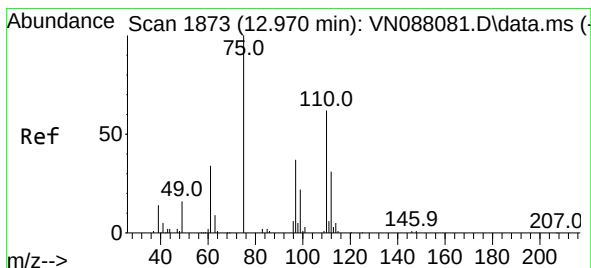
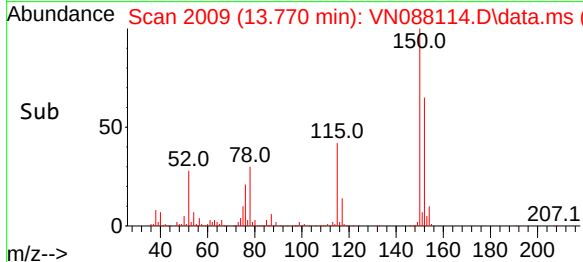
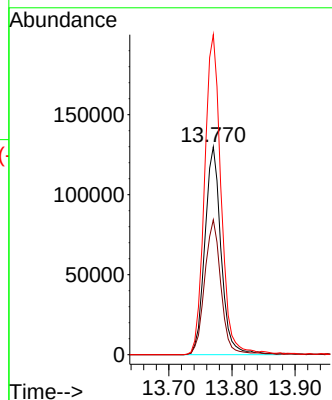
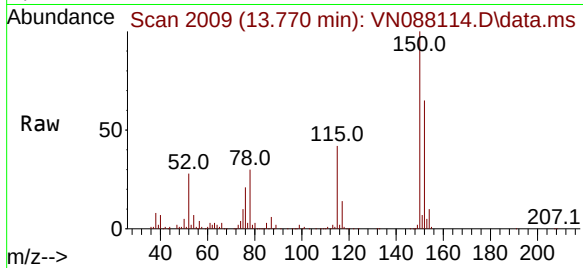




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.770 min Scan# 2009
 Delta R.T. 0.006 min
 Lab File: VN088114.D
 Acq: 27 Oct 2025 15:15

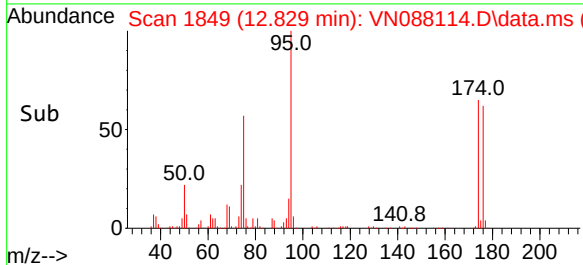
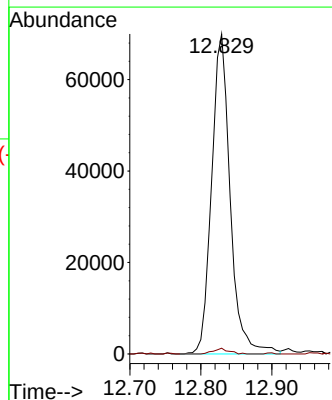
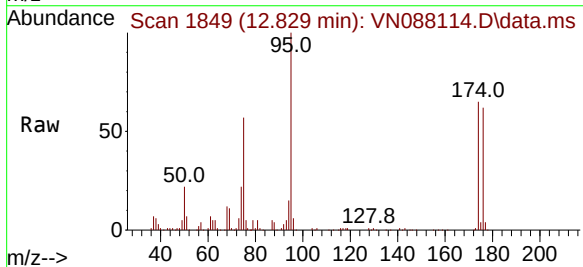
Instrument :
 MSVOA_N
 ClientSampleId :
 JB-2

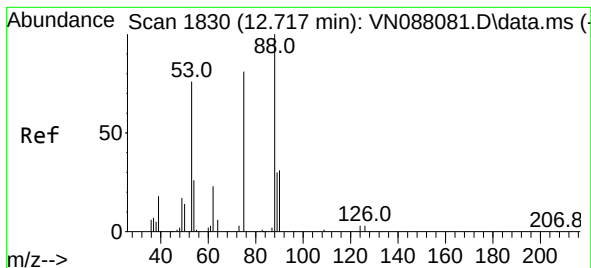
Tgt Ion:152 Resp: 232205
 Ion Ratio Lower Upper
 152 100
 115 65.4 32.3 96.8
 150 156.6 0.0 351.0



#76
 1,2,3-Trichloropropane
 Concen: 23.955 ug/l
 RT: 12.829 min Scan# 1849
 Delta R.T. -0.141 min
 Lab File: VN088114.D
 Acq: 27 Oct 2025 15:15

Tgt Ion: 75 Resp: 127174
 Ion Ratio Lower Upper
 75 100
 77 1.5 89.1 267.4#

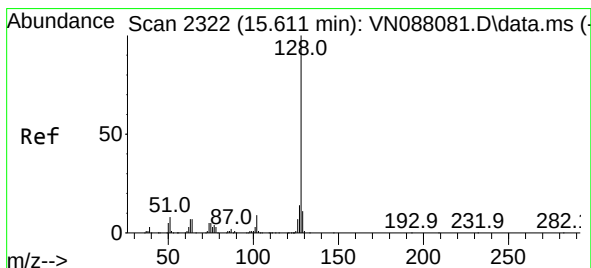
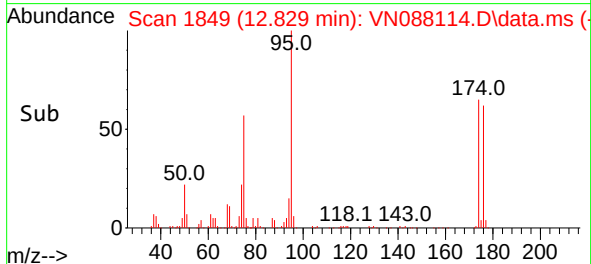
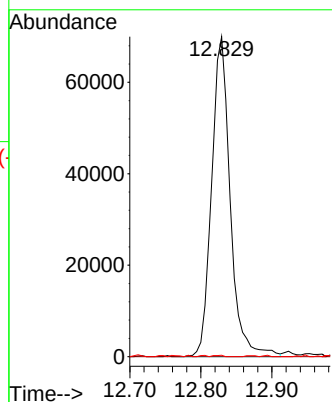
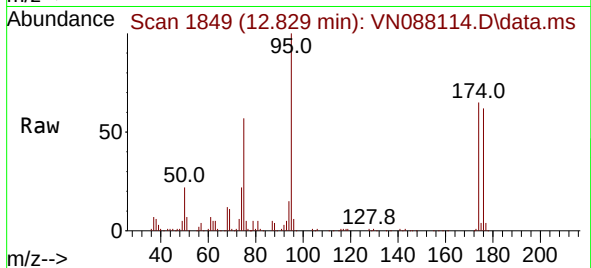




#81
trans-1,4-Dichloro-2-butene
Concen: 66.823 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.112 min
Lab File: VN088114.D
Acq: 27 Oct 2025 15:15

Instrument :
MSVOA_N
ClientSampleId :
JB-2

Tgt Ion: 75 Resp: 127174
Ion Ratio Lower Upper
75 100
53 0.0 101.8 152.6#
89 0.2 35.6 53.4#



#95
Naphthalene
Concen: 0.206 ug/l
RT: 15.617 min Scan# 2323
Delta R.T. 0.006 min
Lab File: VN088114.D
Acq: 27 Oct 2025 15:15

Tgt Ion: 128 Resp: 3170
Ion Ratio Lower Upper
128 100
127 15.3 10.6 15.8
129 8.9 8.6 12.8

