

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN081325\
 Data File : VN087542.D
 Acq On : 13 Aug 2025 17:50
 Operator : JC\MD
 Sample : Q2832-08
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Aug 14 04:04:55 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N071625W.M
 Quant Title : SW846 8260
 QLast Update : Thu Jul 17 02:56:13 2025
 Response via : Initial Calibration

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

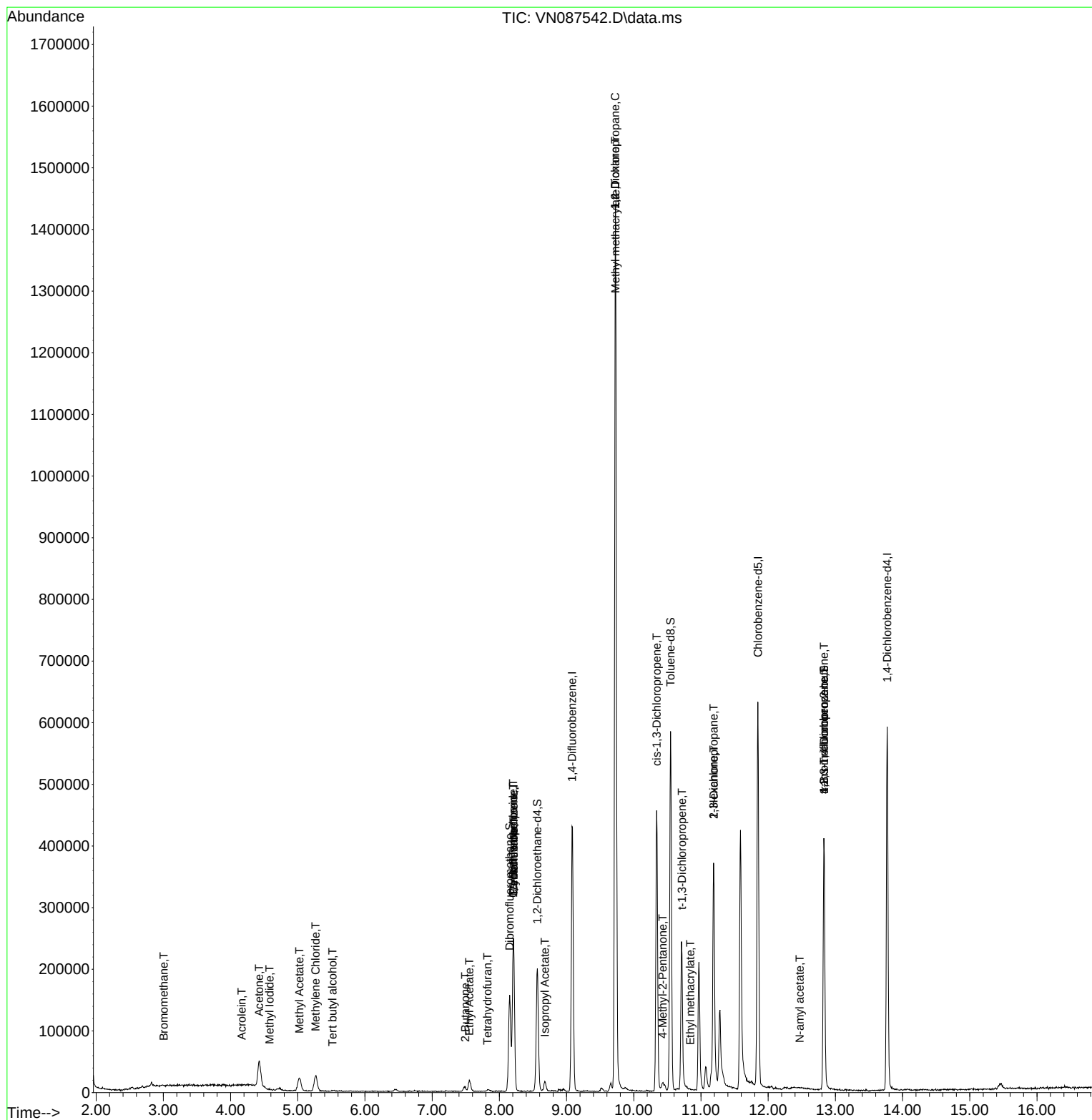
Internal Standards						
1) Pentafluorobenzene	8.212	168	164010	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.082	114	350645	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.847	117	322702	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.770	152	146190	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.565	65	165410	59.438	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 118.880%			
35) Dibromofluoromethane	8.153	113	107832	44.582	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 89.160%			
50) Toluene-d8	10.547	98	380235	44.070	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 88.140%			
62) 4-Bromofluorobenzene	12.829	95	143643	45.063	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 90.120%			
Target Compounds					Qvalue	
5) Bromomethane	3.006	94	839	0.744	ug/l #	4
10) Methyl Iodide	4.583	142	162	5.716	ug/l #	40
11) Tert butyl alcohol	5.518	59	416	0.787	ug/l #	72
13) Acrolein	4.165	56	295	0.696	ug/l #	37
16) Acetone	4.424	43	78933	60.493	ug/l	97
18) Methyl Acetate	5.024	43	50337	15.355	ug/l	98
20) Methylene Chloride	5.265	84	19039	8.095	ug/l #	88
25) 2-Butanone	7.494	43	13268	6.581	ug/l #	83
29) Tetrahydrofuran	7.824	42	828	0.632	ug/l #	35
31) Cyclohexane	8.212	56	5697	1.665	ug/l #	45
36) 1,1-Dichloropropene	8.206	75	17060	5.339	ug/l #	49
37) Ethyl Acetate	7.553	43	28831	6.247	ug/l #	95
38) Carbon Tetrachloride	8.206	117	20385	5.791	ug/l #	15
43) Isopropyl Acetate	8.677	43	19554	2.729	ug/l #	89
45) 1,2-Dichloropropane	9.723	63	1821	0.694	ug/l #	41
48) Methyl methacrylate	9.729	41	145495	45.110	ug/l #	46
49) 1,4-Dioxane	9.723	88	178	3.603	ug/l #	1
51) 4-Methyl-2-Pentanone	10.429	43	9705	2.142	ug/l	98
53) t-1,3-Dichloropropene	10.718	75	1102	0.275	ug/l	91
54) cis-1,3-Dichloropropene	10.341	75	80219	19.389	ug/l #	71
56) Ethyl methacrylate	10.841	69	109	0.661	ug/l #	24
57) 1,3-Dichloropropane	11.188	76	4466	1.016	ug/l #	42
59) 2-Hexanone	11.188	43	83590	27.805	ug/l #	45
74) N-amyl acetate	12.470	43	1053	0.275	ug/l #	21
76) 1,2,3-Trichloropropane	12.829	75	82692	25.225	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.829	75	82692	69.019	ug/l #	8

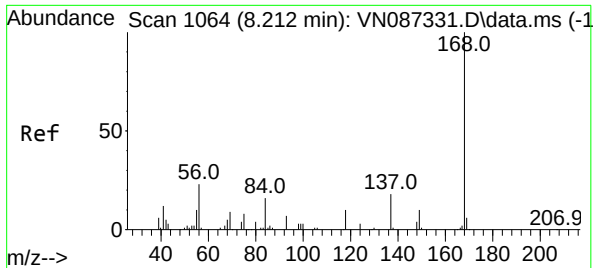
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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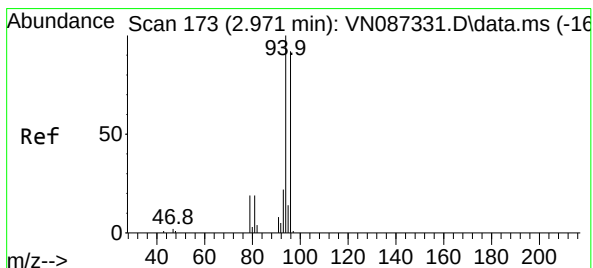
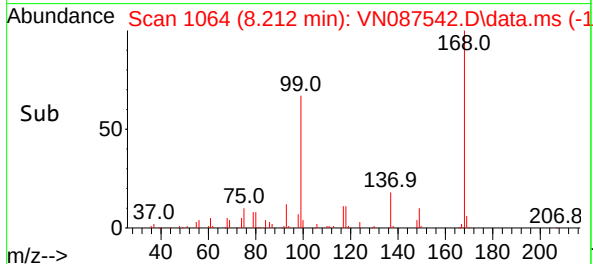
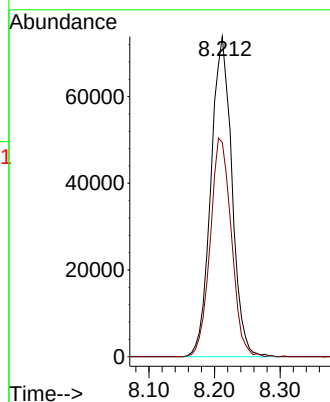
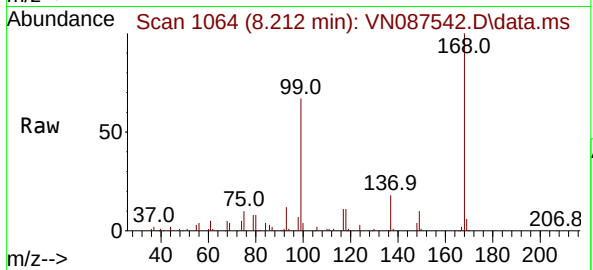




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.212 min Scan# 1064
Delta R.T. -0.000 min
Lab File: VN087542.D
Acq: 13 Aug 2025 17:50

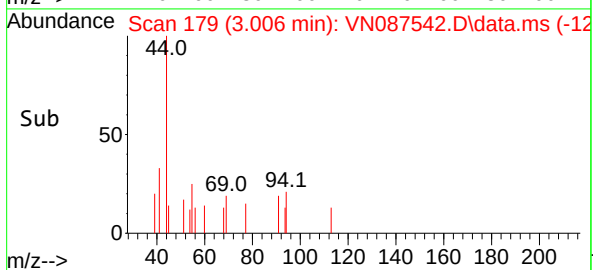
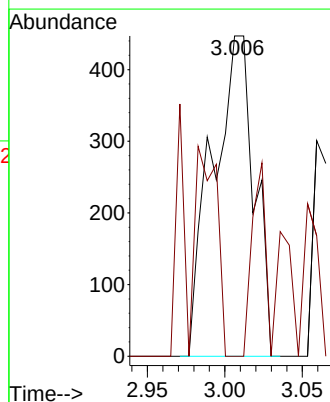
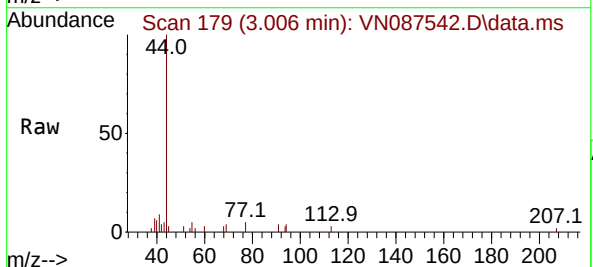
Instrument :
MSVOA_N
ClientSampleId :

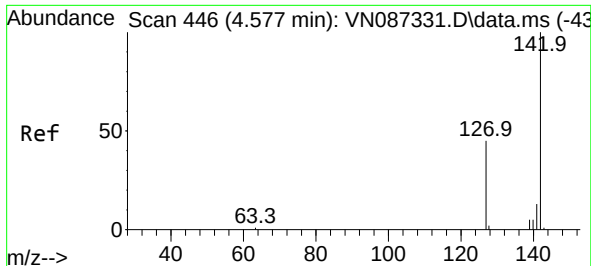
Tgt Ion:168 Resp: 164010
Ion Ratio Lower Upper
168 100
99 67.0 47.9 71.9



#5
Bromomethane
Concen: 0.744 ug/l
RT: 3.006 min Scan# 179
Delta R.T. 0.035 min
Lab File: VN087542.D
Acq: 13 Aug 2025 17:50

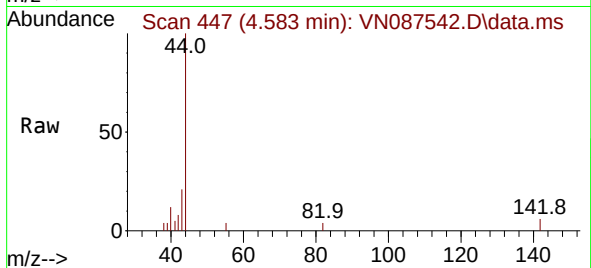
Tgt Ion: 94 Resp: 839
Ion Ratio Lower Upper
94 100
96 0.0 73.4 110.2#



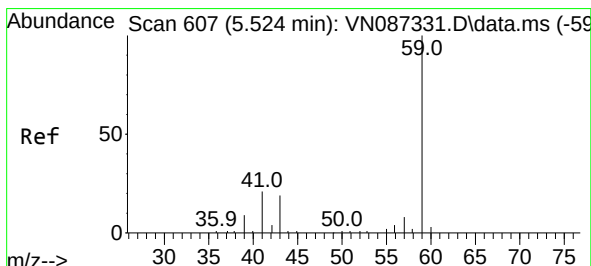
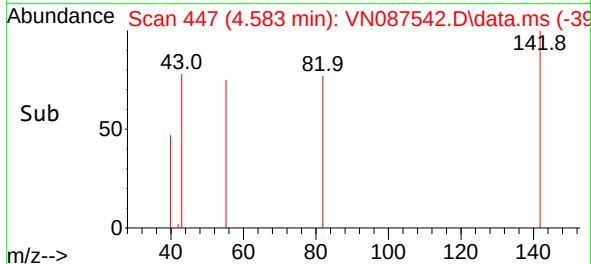
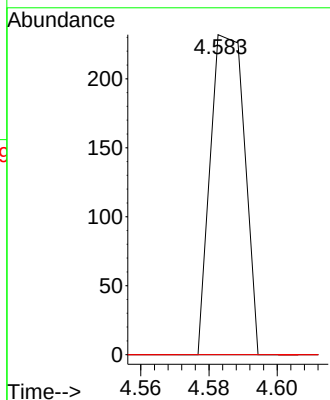


#10
Methyl Iodide
Concen: 5.716 ug/l
RT: 4.583 min Scan# 446
Delta R.T. 0.006 min
Lab File: VN087542.D
Acq: 13 Aug 2025 17:50

Instrument :
MSVOA_N
ClientSampleId :

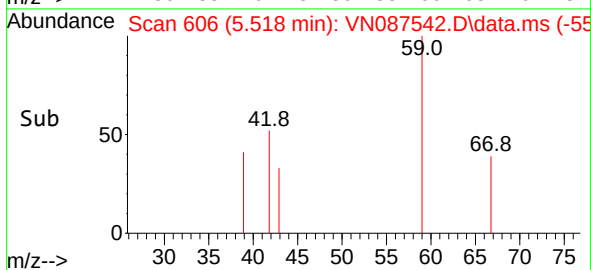
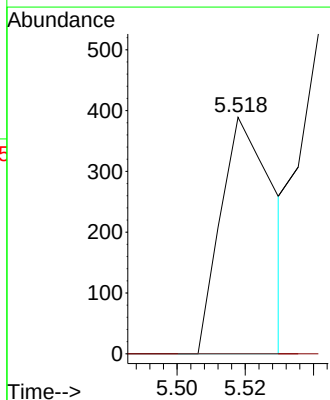
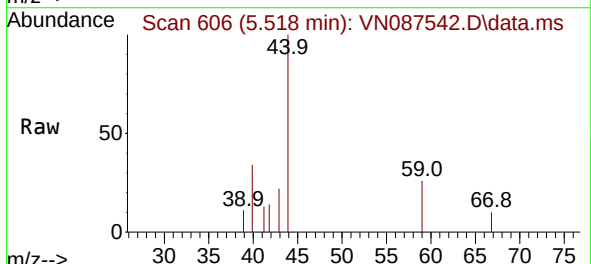


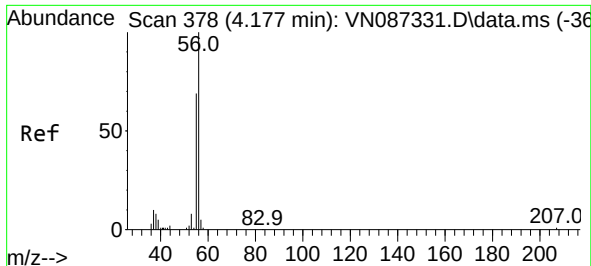
Tgt Ion:142 Resp: 162
Ion Ratio Lower Upper
142 100
127 0.0 35.7 53.5#
141 0.0 10.4 15.6#



#11
Tert butyl alcohol
Concen: 0.787 ug/l
RT: 5.518 min Scan# 606
Delta R.T. -0.006 min
Lab File: VN087542.D
Acq: 13 Aug 2025 17:50

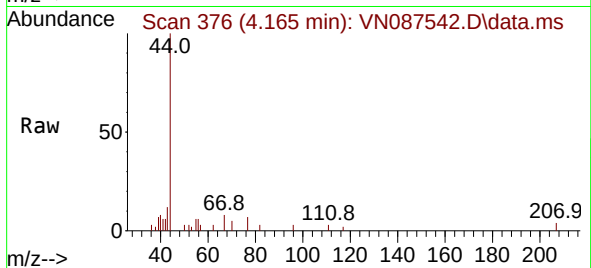
Tgt Ion: 59 Resp: 416
Ion Ratio Lower Upper
59 100
57 0.0 8.3 12.5#



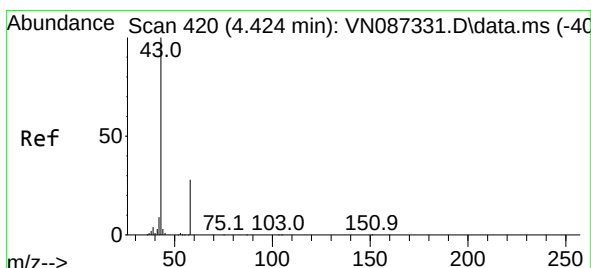
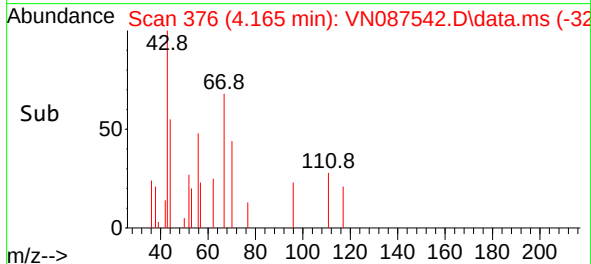
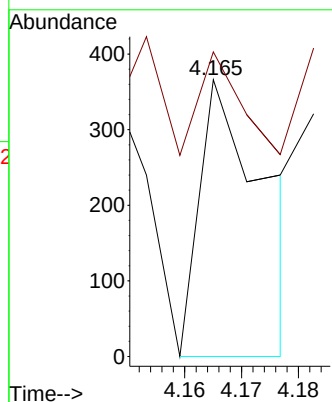


#13
Acrolein
Concen: 0.696 ug/l
RT: 4.165 min Scan# 31
Delta R.T. -0.012 min
Lab File: VN087542.D
Acq: 13 Aug 2025 17:50

Instrument :
MSVOA_N
ClientSampleId :

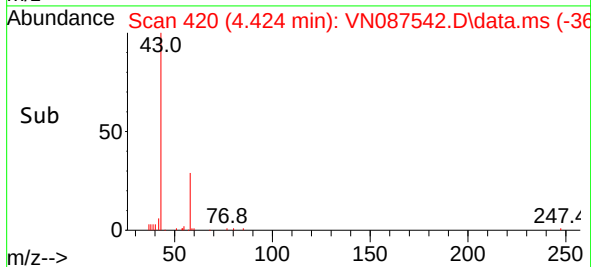
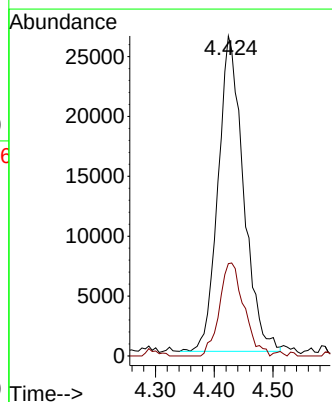
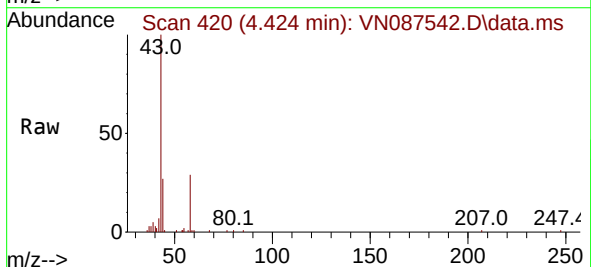


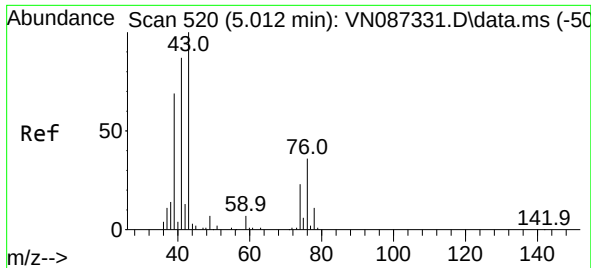
Tgt Ion: 56 Resp: 295
Ion Ratio Lower Upper
56 100
55 18.6 56.2 84.4#



#16
Acetone
Concen: 60.493 ug/l
RT: 4.424 min Scan# 420
Delta R.T. 0.000 min
Lab File: VN087542.D
Acq: 13 Aug 2025 17:50

Tgt Ion: 43 Resp: 78933
Ion Ratio Lower Upper
43 100
58 29.3 22.3 33.5

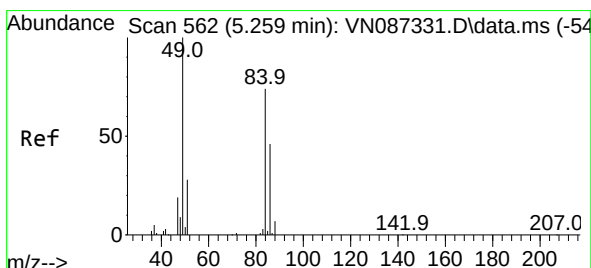
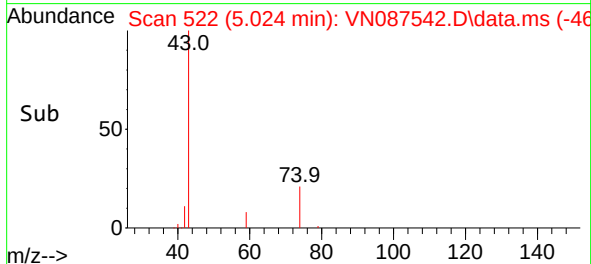
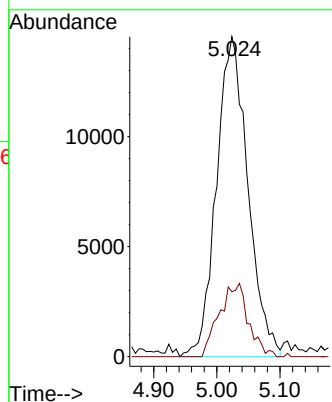
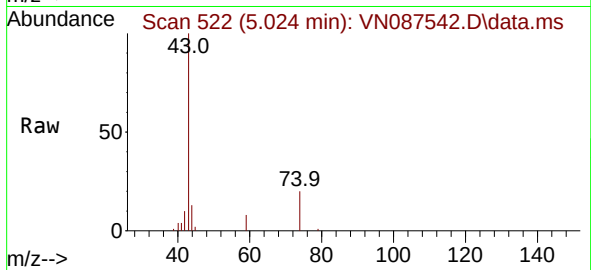




#18
Methyl Acetate
Concen: 15.355 ug/l
RT: 5.024 min Scan# 51
Delta R.T. 0.012 min
Lab File: VN087542.D
Acq: 13 Aug 2025 17:50

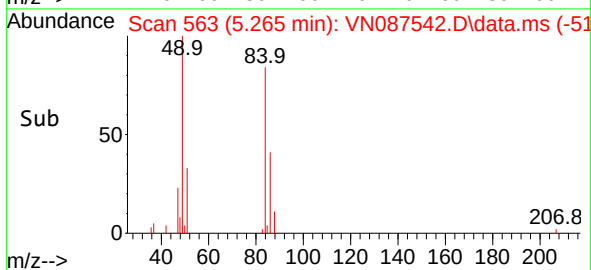
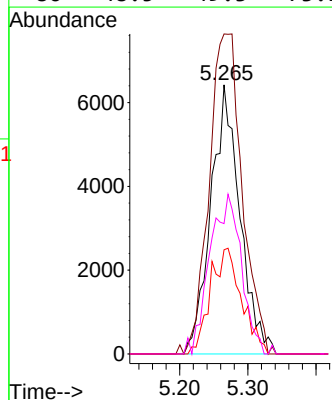
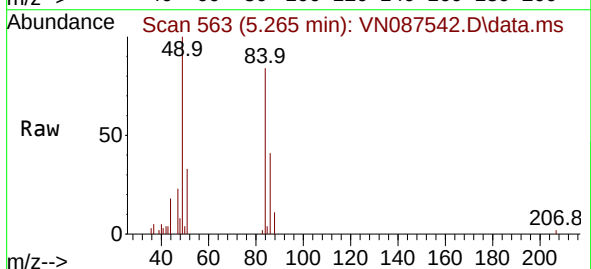
Instrument :
MSVOA_N
ClientSampleId :

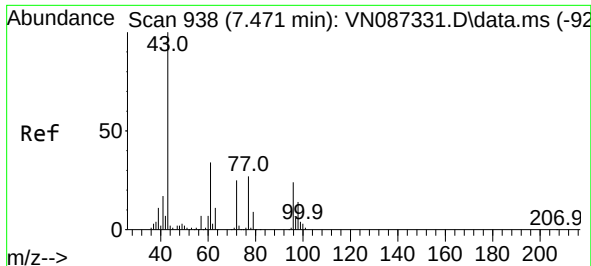
Tgt Ion: 43 Resp: 50337
Ion Ratio Lower Upper
43 100
74 21.1 17.8 26.6



#20
Methylene Chloride
Concen: 8.095 ug/l
RT: 5.265 min Scan# 563
Delta R.T. 0.006 min
Lab File: VN087542.D
Acq: 13 Aug 2025 17:50

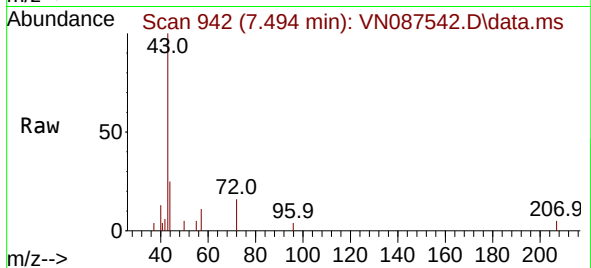
Tgt Ion: 84 Resp: 19039
Ion Ratio Lower Upper
84 100
49 118.9 107.5 161.3
51 38.7 30.2 45.2
86 48.5 49.3 73.9#



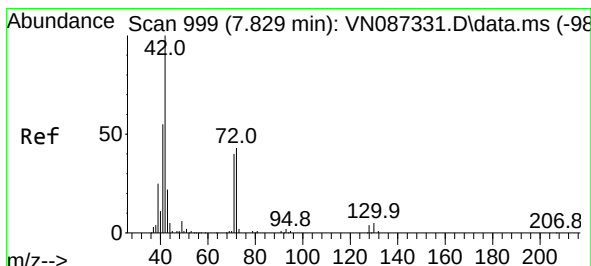
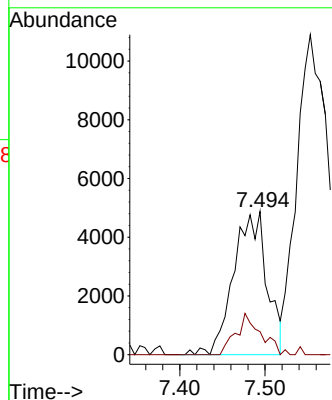
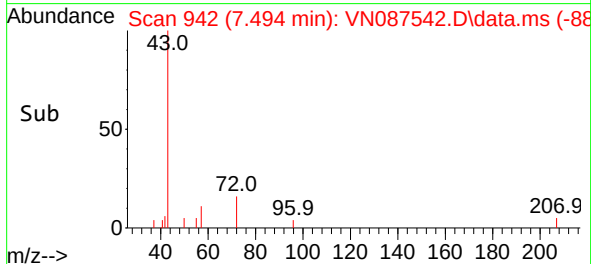


#25
2-Butanone
Concen: 6.581 ug/l
RT: 7.494 min Scan# 942
Delta R.T. 0.024 min
Lab File: VN087542.D
Acq: 13 Aug 2025 17:50

Instrument :
MSVOA_N
ClientSampleId :

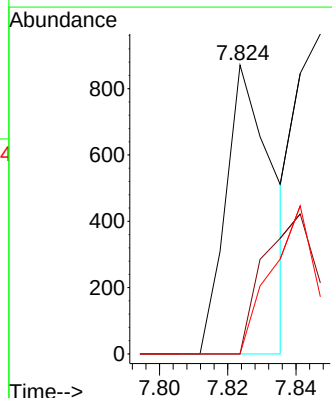
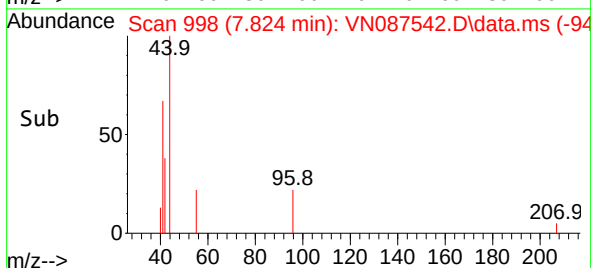
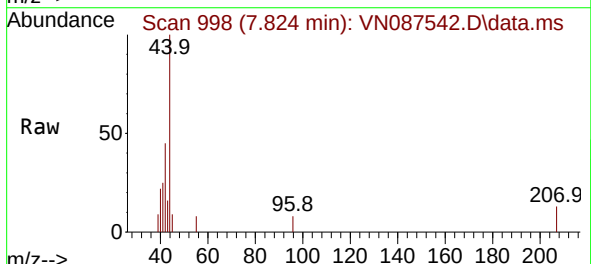


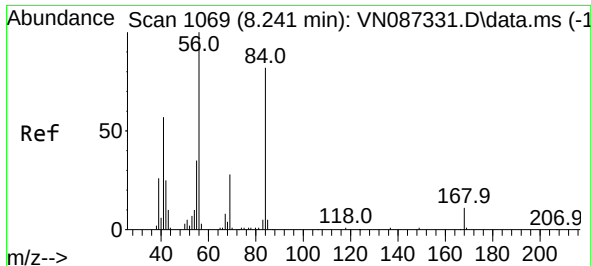
Tgt Ion: 43 Resp: 13268
Ion Ratio Lower Upper
43 100
72 16.1 19.6 29.4#



#29
Tetrahydrofuran
Concen: 0.632 ug/l
RT: 7.824 min Scan# 998
Delta R.T. -0.006 min
Lab File: VN087542.D
Acq: 13 Aug 2025 17:50

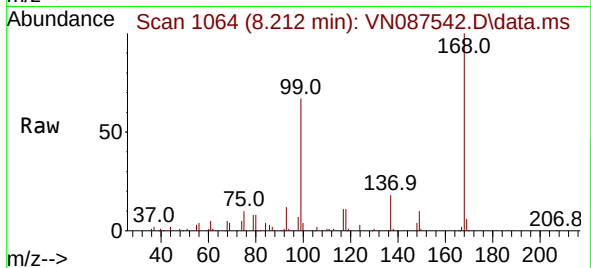
Tgt Ion: 42 Resp: 828
Ion Ratio Lower Upper
42 100
72 0.0 33.4 50.0#
71 0.0 31.2 46.8#



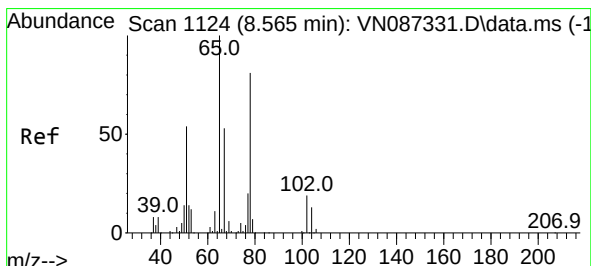
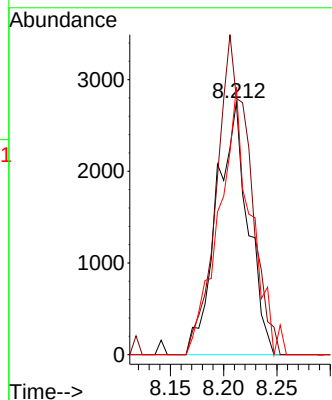
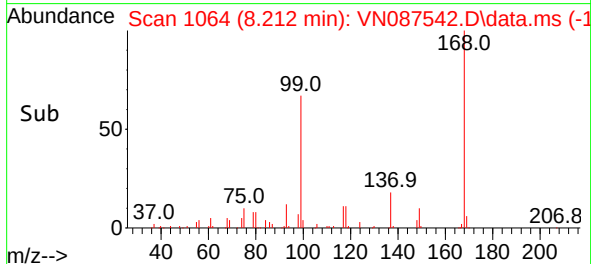


#31
Cyclohexane
Concen: 1.665 ug/l
RT: 8.212 min Scan# 1064
Delta R.T. -0.029 min
Lab File: VN087542.D
Acq: 13 Aug 2025 17:50

Instrument :
MSVOA_N
ClientSampleId :

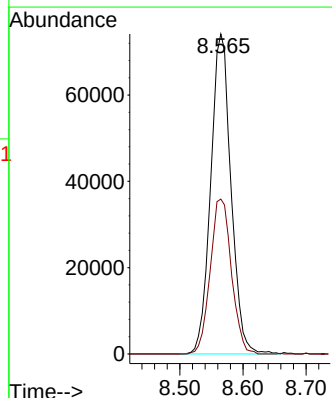
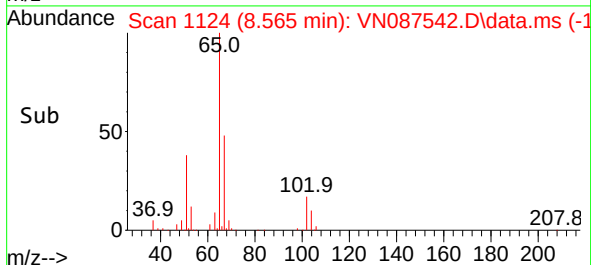
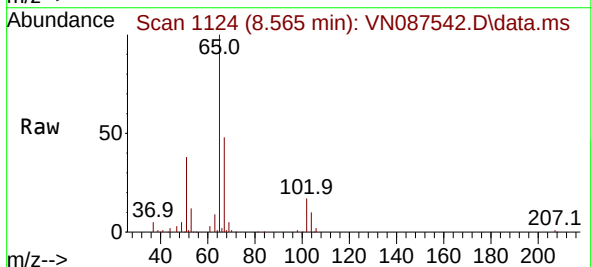


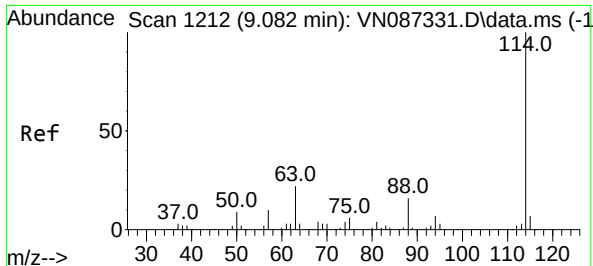
Tgt Ion: 56 Resp: 5697
Ion Ratio Lower Upper
56 100
69 101.6 22.7 34.1#
84 106.1 65.8 98.6#



#33
1,2-Dichloroethane-d4
Concen: 59.438 ug/l
RT: 8.565 min Scan# 1124
Delta R.T. 0.000 min
Lab File: VN087542.D
Acq: 13 Aug 2025 17:50

Tgt Ion: 65 Resp: 165410
Ion Ratio Lower Upper
65 100
67 50.5 0.0 104.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.082 min Scan# 1

Delta R.T. 0.000 min

Lab File: VN087542.D

Acq: 13 Aug 2025 17:50

Instrument :

MSVOA_N

ClientSampleId :

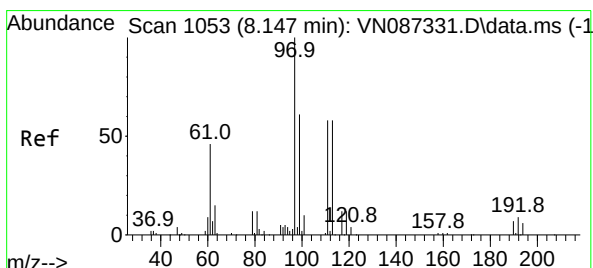
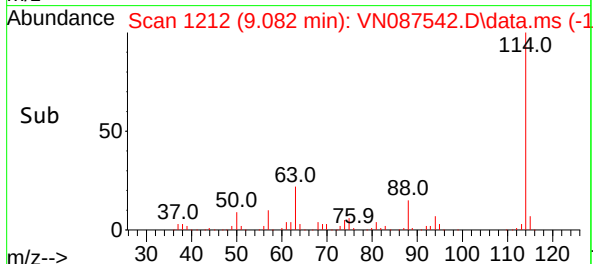
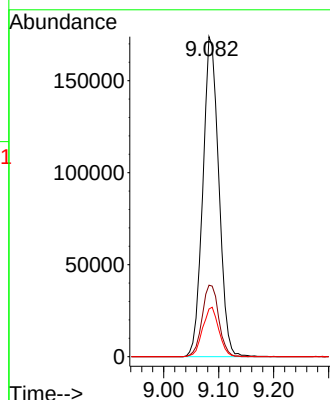
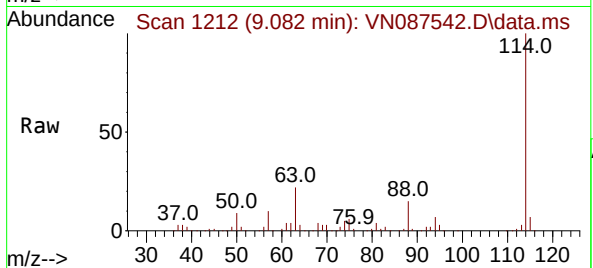
Tgt Ion:114 Resp: 350645

Ion Ratio Lower Upper

114 100

63 22.4 0.0 44.6

88 14.9 0.0 32.8



#35

Dibromofluoromethane

Concen: 44.582 ug/l

RT: 8.153 min Scan# 1054

Delta R.T. 0.006 min

Lab File: VN087542.D

Acq: 13 Aug 2025 17:50

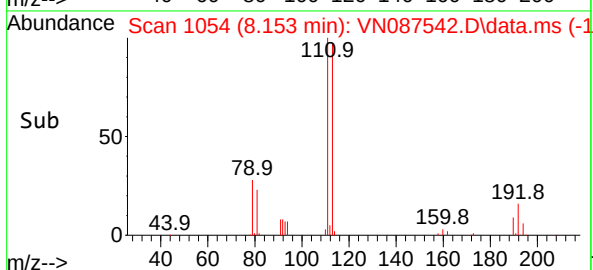
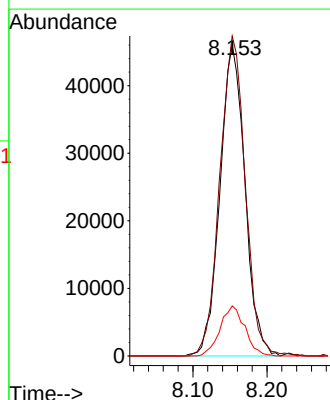
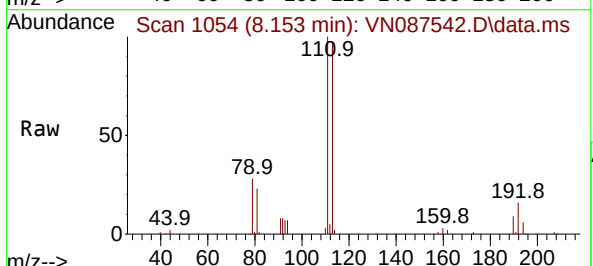
Tgt Ion:113 Resp: 107832

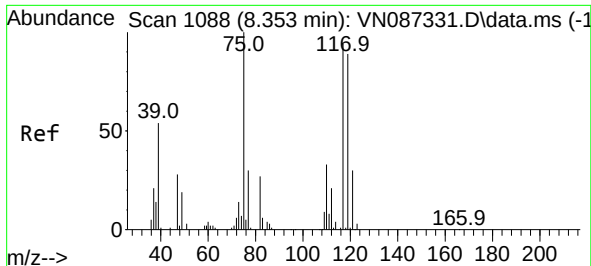
Ion Ratio Lower Upper

113 100

111 104.5 82.5 123.7

192 16.0 13.7 20.5





#36

1,1-Dichloropropene

Concen: 5.339 ug/l

RT: 8.206 min Scan# 1

Delta R.T. -0.147 min

Lab File: VN087542.D

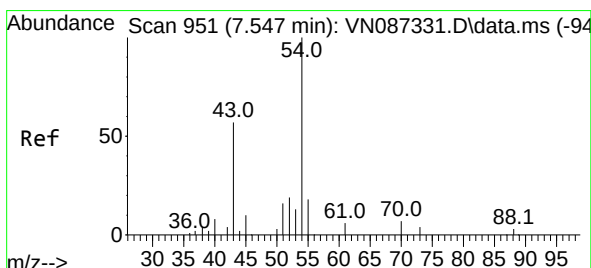
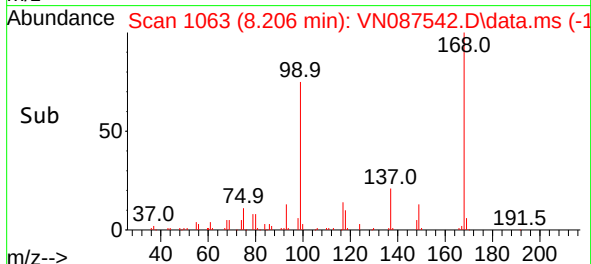
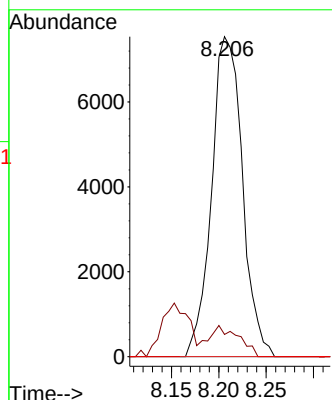
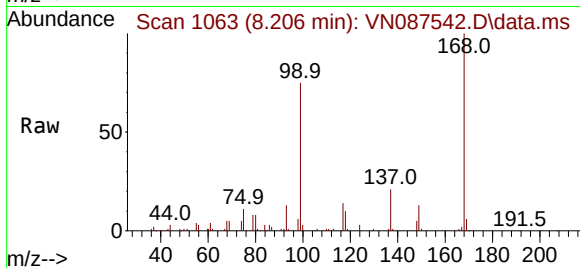
Acq: 13 Aug 2025 17:50

Instrument :

MSVOA_N

ClientSampleId :

Tgt Ion:	75	Resp:	17060
Ion	Ratio	Lower	Upper
75	100		
110	8.0	16.7	50.1#
77	0.0	25.2	37.8#



#37

Ethyl Acetate

Concen: 6.247 ug/l

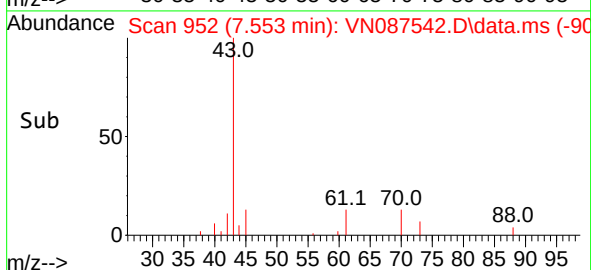
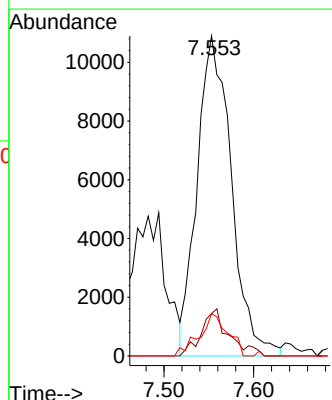
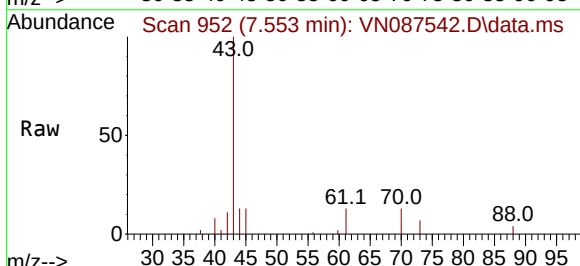
RT: 7.553 min Scan# 952

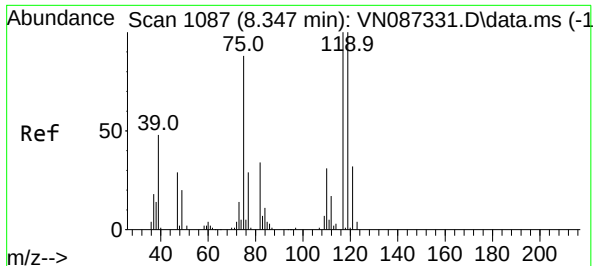
Delta R.T. 0.006 min

Lab File: VN087542.D

Acq: 13 Aug 2025 17:50

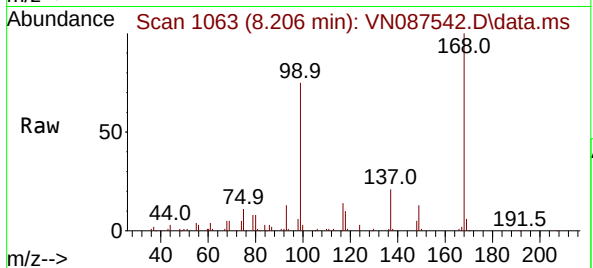
Tgt Ion:	43	Resp:	28831
Ion	Ratio	Lower	Upper
43	100		
61	11.9	10.9	16.3
70	11.1	7.4	11.0#



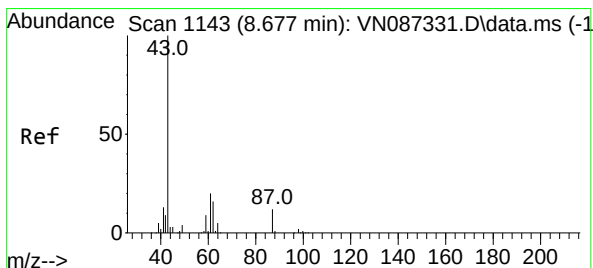
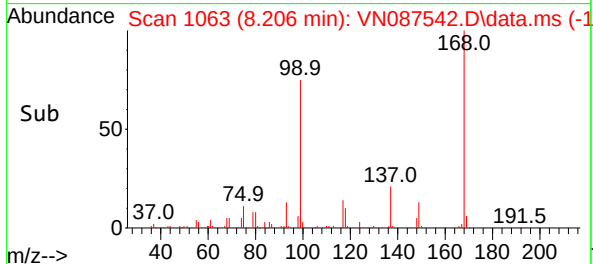
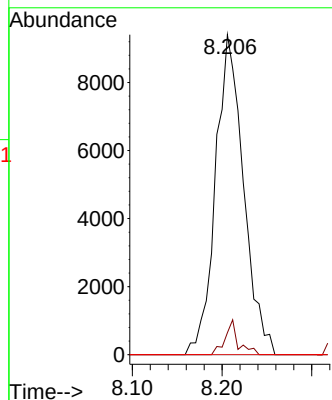


#38
Carbon Tetrachloride
Concen: 5.791 ug/l
RT: 8.206 min Scan# 1063
Delta R.T. -0.141 min
Lab File: VN087542.D
Acq: 13 Aug 2025 17:50

Instrument :
MSVOA_N
ClientSampleId :

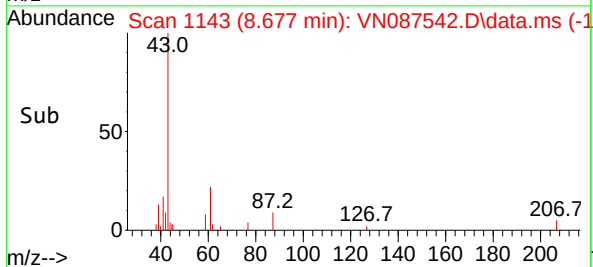
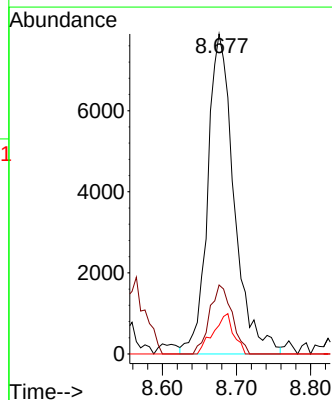
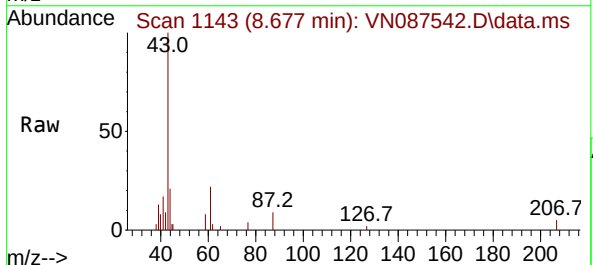


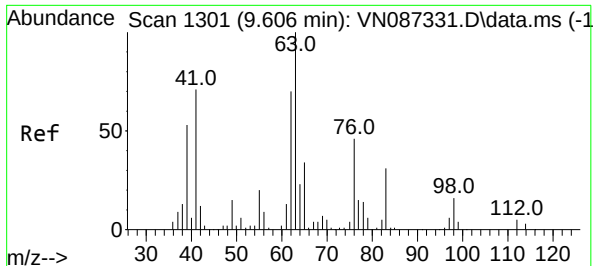
Tgt Ion: 117 Resp: 20385
Ion Ratio Lower Upper
117 100
119 6.8 80.2 120.2#
121 0.0 25.4 38.2#



#43
Isopropyl Acetate
Concen: 2.729 ug/l
RT: 8.677 min Scan# 1143
Delta R.T. -0.000 min
Lab File: VN087542.D
Acq: 13 Aug 2025 17:50

Tgt Ion: 43 Resp: 19554
Ion Ratio Lower Upper
43 100
61 18.3 19.8 29.8#
87 9.6 9.8 14.6#





#45

1,2-Dichloropropane

Concen: 0.694 ug/l

RT: 9.723 min Scan# 11

Delta R.T. 0.117 min

Lab File: VN087542.D

Acq: 13 Aug 2025 17:50

Instrument :

MSVOA_N

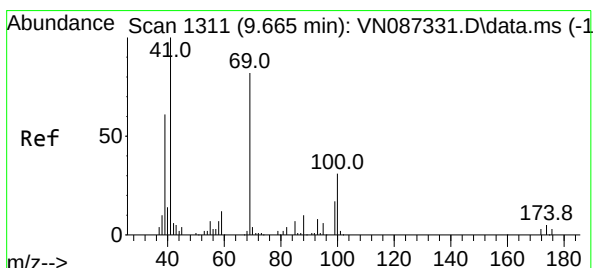
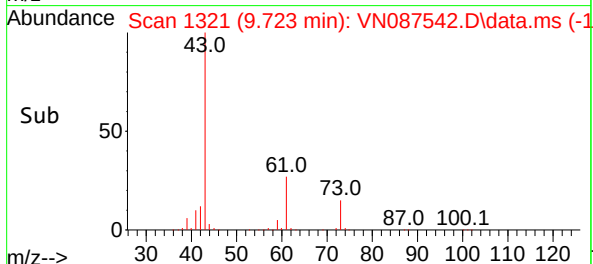
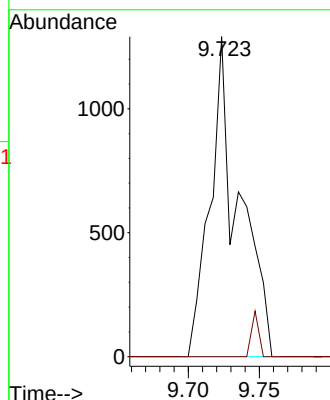
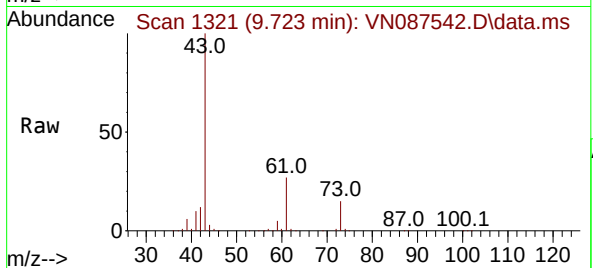
ClientSampleId :

Tgt Ion: 63 Resp: 1821

Ion Ratio Lower Upper

63 100

65 0.0 27.0 40.4#



#48

Methyl methacrylate

Concen: 45.110 ug/l

RT: 9.729 min Scan# 1322

Delta R.T. 0.065 min

Lab File: VN087542.D

Acq: 13 Aug 2025 17:50

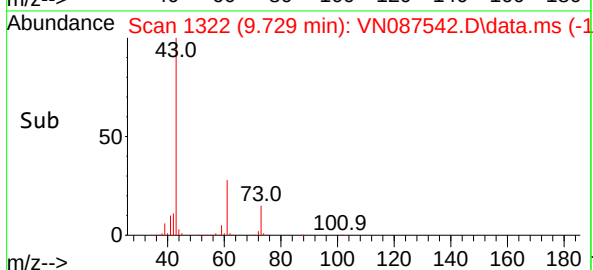
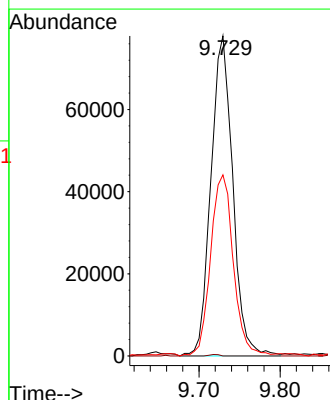
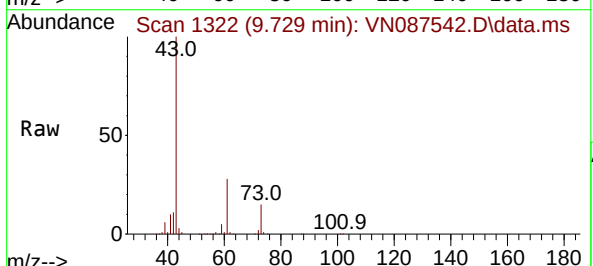
Tgt Ion: 41 Resp: 145495

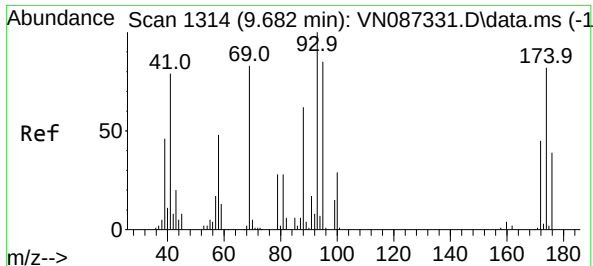
Ion Ratio Lower Upper

41 100

69 0.2 64.1 96.1#

39 59.0 45.5 68.3





#49

1,4-Dioxane

Concen: 3.603 ug/l

RT: 9.723 min Scan# 1

Delta R.T. 0.041 min

Lab File: VN087542.D

Acq: 13 Aug 2025 17:50

Instrument :

MSVOA_N

ClientSampleId :

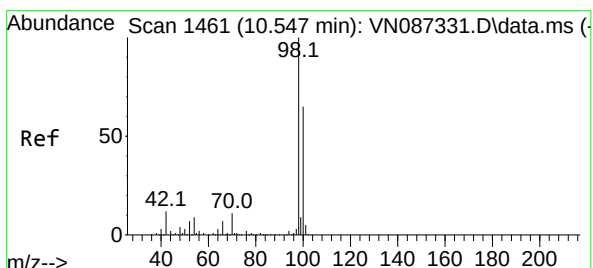
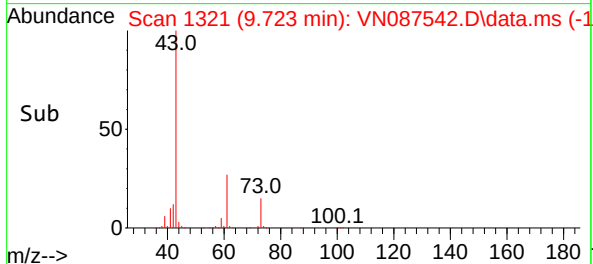
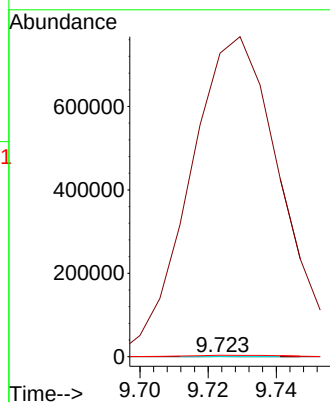
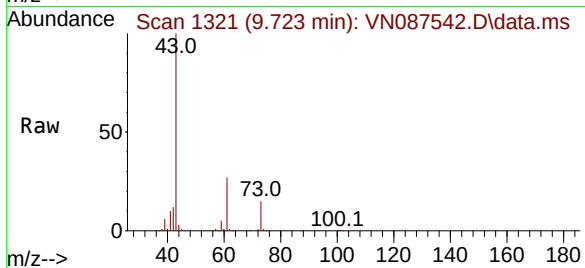
Tgt Ion: 88 Resp: 178

Ion Ratio Lower Upper

88 100

43 820871.3 0.0 0.0#

58 3957.9 61.1 91.7#



#50

Toluene-d8

Concen: 44.070 ug/l

RT: 10.547 min Scan# 1461

Delta R.T. -0.000 min

Lab File: VN087542.D

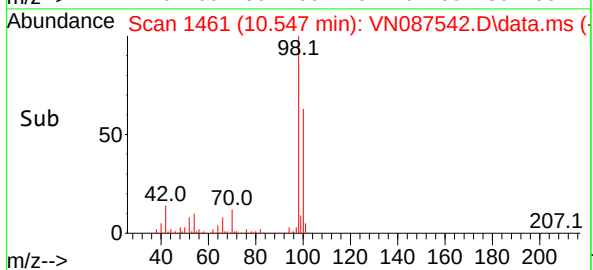
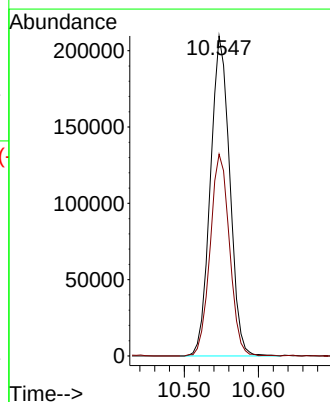
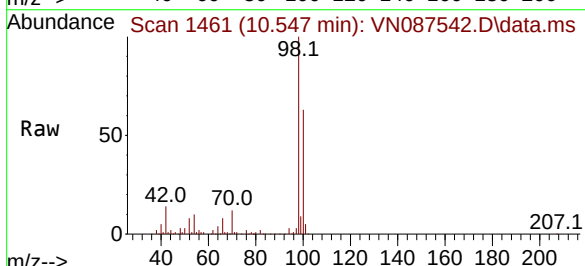
Acq: 13 Aug 2025 17:50

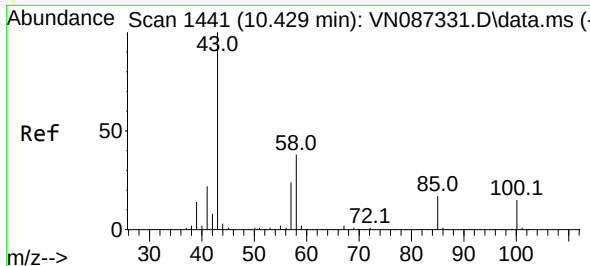
Tgt Ion: 98 Resp: 380235

Ion Ratio Lower Upper

98 100

100 63.0 52.1 78.1

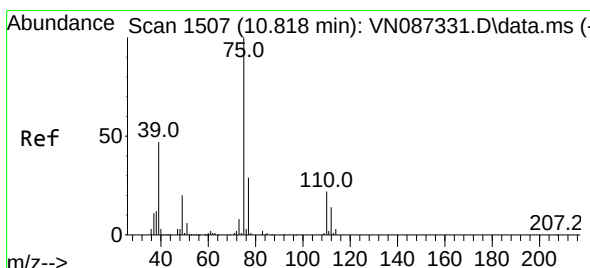
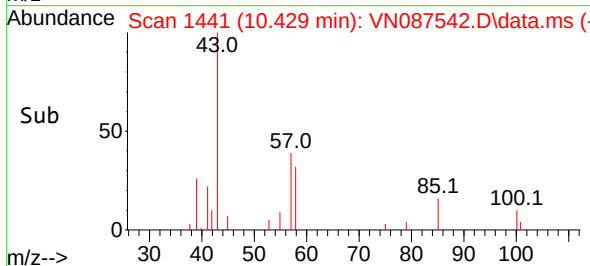
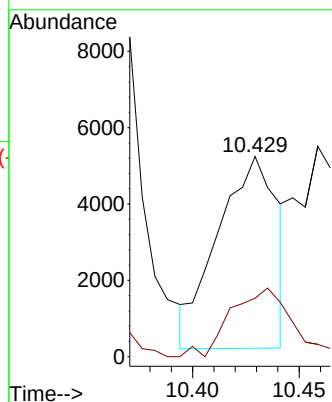
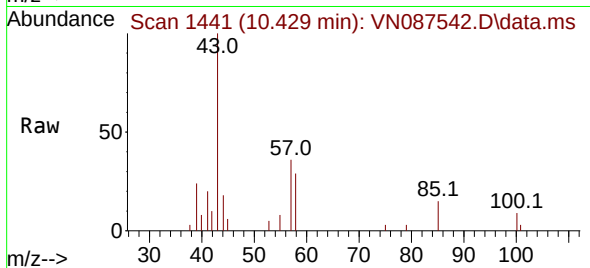




#51
4-Methyl-2-Pentanone
Concen: 2.142 ug/l
RT: 10.429 min Scan# 1441
Delta R.T. 0.000 min
Lab File: VN087542.D
Acq: 13 Aug 2025 17:50

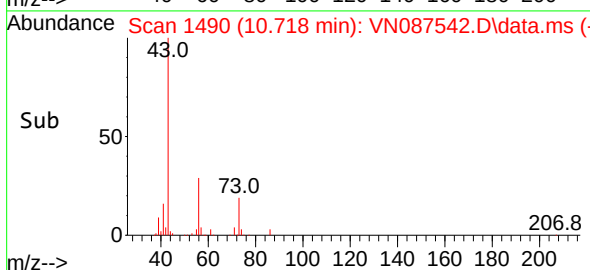
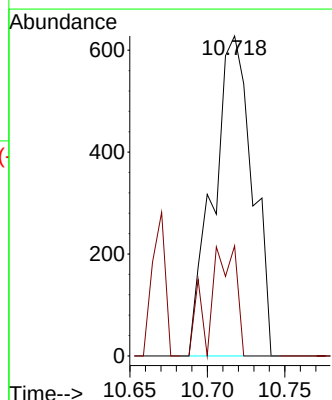
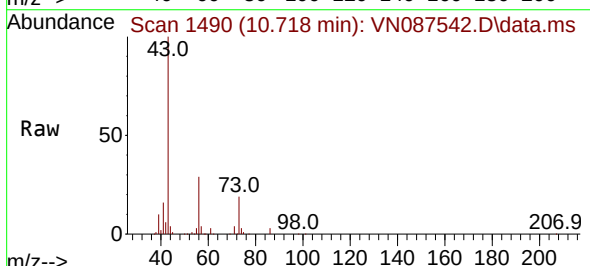
Instrument :
MSVOA_N
ClientSampleId :

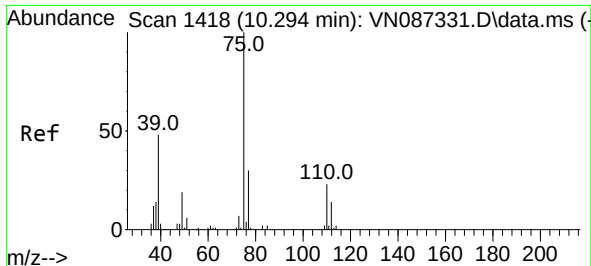
Tgt Ion: 43 Resp: 9705
Ion Ratio Lower Upper
43 100
58 37.3 30.8 46.2



#53
t-1,3-Dichloropropene
Concen: 0.275 ug/l
RT: 10.718 min Scan# 1490
Delta R.T. -0.100 min
Lab File: VN087542.D
Acq: 13 Aug 2025 17:50

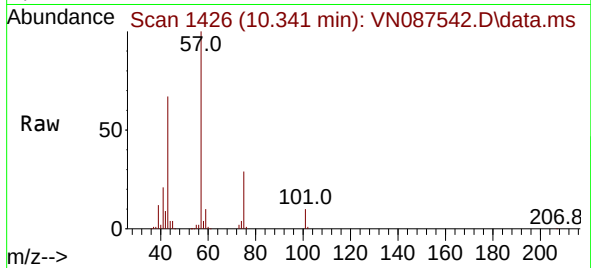
Tgt Ion: 75 Resp: 1102
Ion Ratio Lower Upper
75 100
77 34.4 23.6 35.4



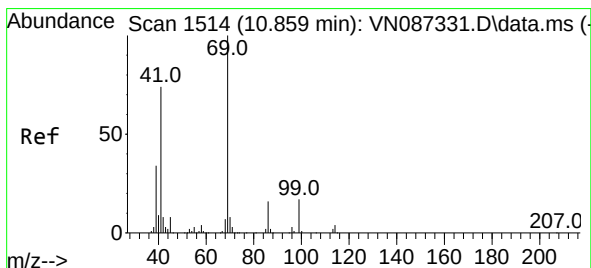
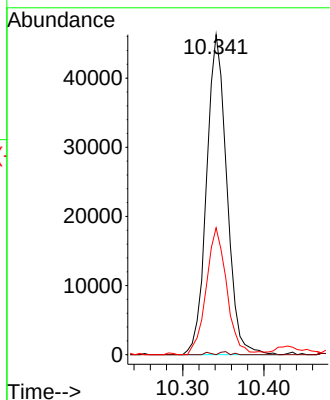
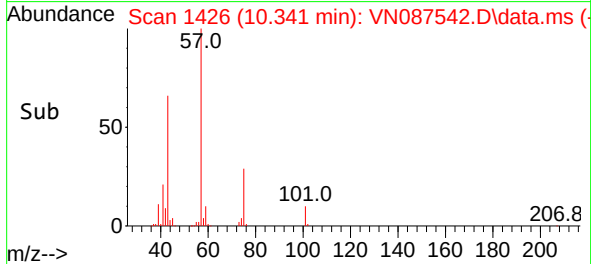


#54
 cis-1,3-Dichloropropene
 Concen: 19.389 ug/l
 RT: 10.341 min Scan# 1418
 Delta R.T. 0.047 min
 Lab File: VN087542.D
 Acq: 13 Aug 2025 17:50

Instrument :
 MSVOA_N
 ClientSampleId :

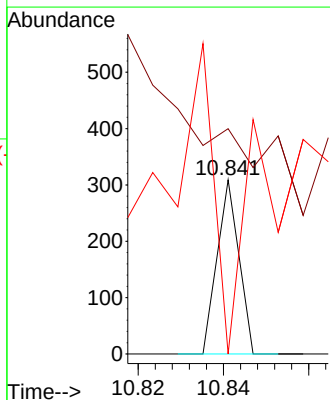
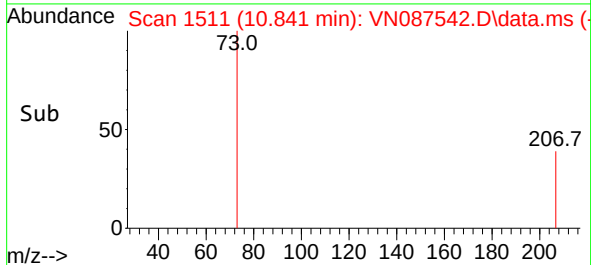
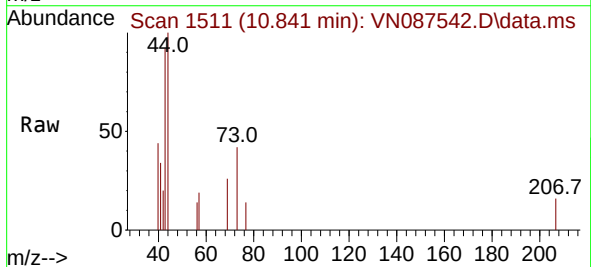


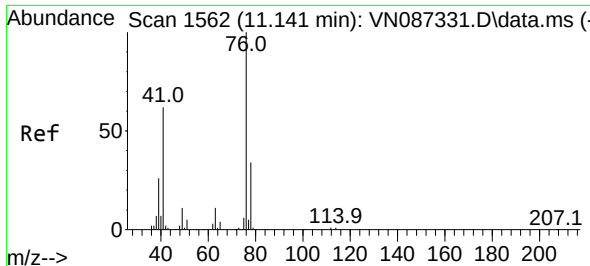
Tgt Ion: 75 Resp: 80219
 Ion Ratio Lower Upper
 75 100
 77 0.0 24.2 36.2#
 39 39.6 38.4 57.6



#56
 Ethyl methacrylate
 Concen: 0.661 ug/l
 RT: 10.841 min Scan# 1511
 Delta R.T. -0.018 min
 Lab File: VN087542.D
 Acq: 13 Aug 2025 17:50

Tgt Ion: 69 Resp: 109
 Ion Ratio Lower Upper
 69 100
 41 0.0 55.1 82.7#
 39 0.0 27.9 41.9#





#57

1,3-Dichloropropane

Concen: 1.016 ug/l

RT: 11.188 min Scan# 1570

Delta R.T. 0.047 min

Lab File: VN087542.D

Acq: 13 Aug 2025 17:50

Instrument :

MSVOA_N

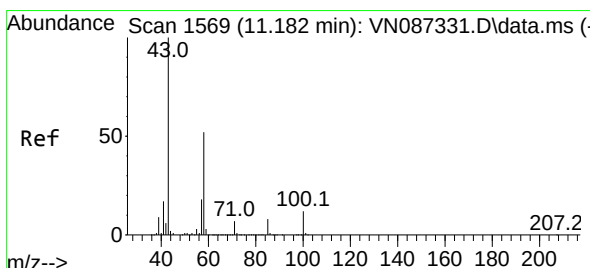
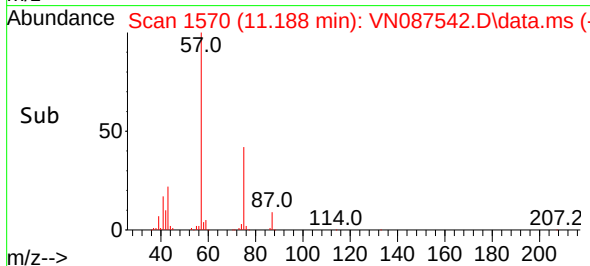
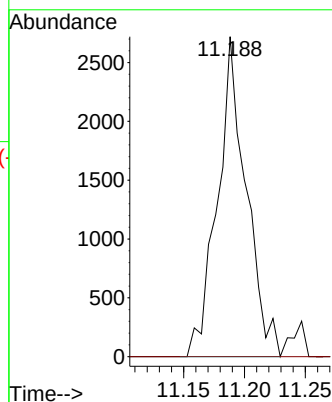
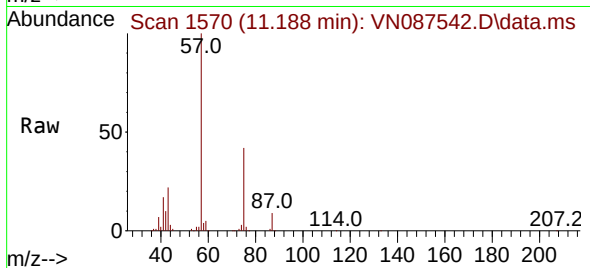
ClientSampleId :

Tgt Ion: 76 Resp: 4466

Ion Ratio Lower Upper

76 100

78 0.0 26.0 39.0#



#59

2-Hexanone

Concen: 27.805 ug/l

RT: 11.188 min Scan# 1570

Delta R.T. 0.006 min

Lab File: VN087542.D

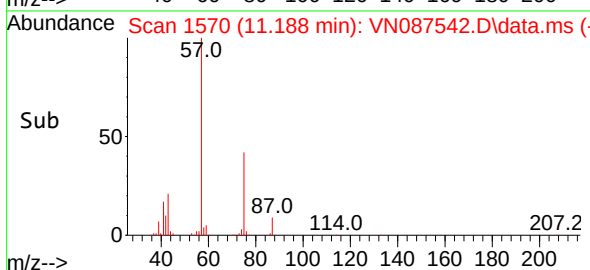
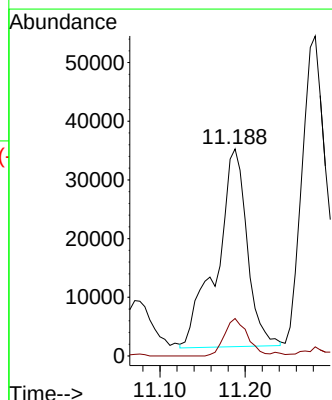
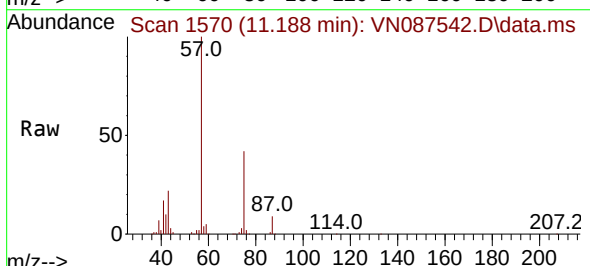
Acq: 13 Aug 2025 17:50

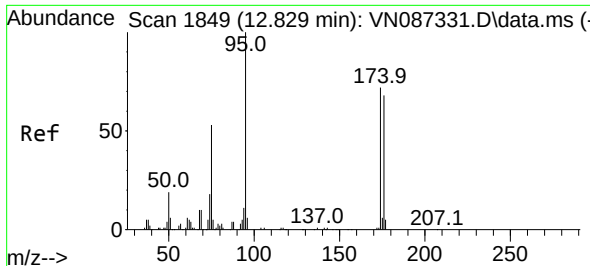
Tgt Ion: 43 Resp: 83590

Ion Ratio Lower Upper

43 100

58 14.5 26.7 80.0#

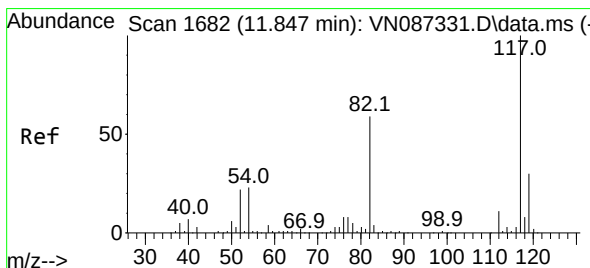
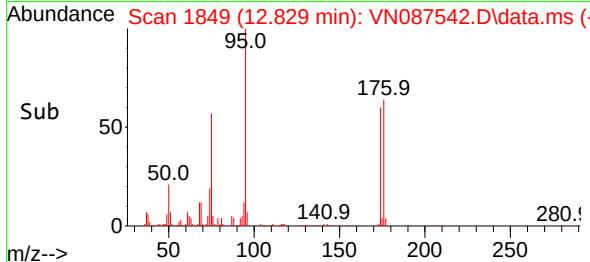
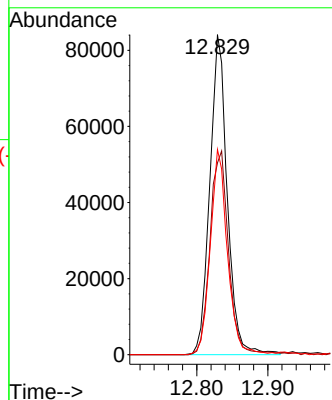
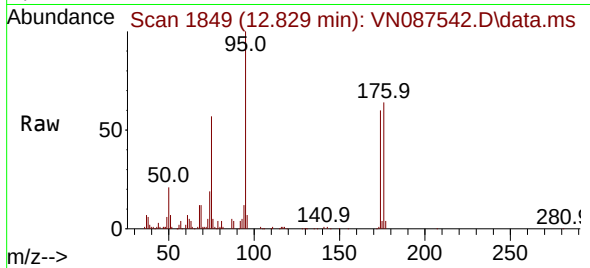




#62
4-Bromofluorobenzene
Concen: 45.063 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.000 min
Lab File: VN087542.D
Acq: 13 Aug 2025 17:50

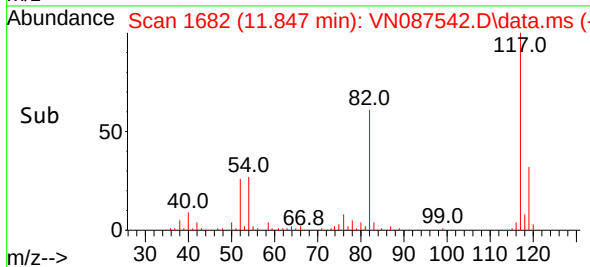
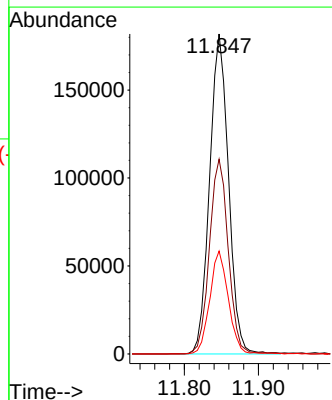
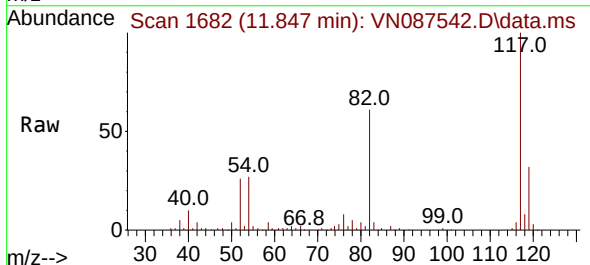
Instrument :
MSVOA_N
ClientSampleId :

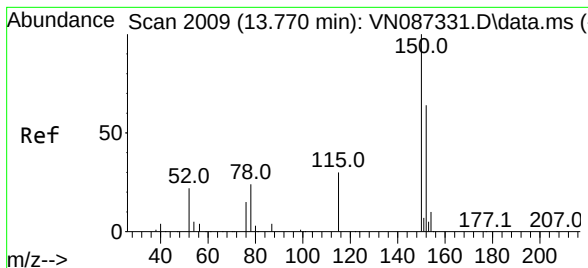
Tgt Ion: 95 Resp: 143643
Ion Ratio Lower Upper
95 100
174 68.2 0.0 149.4
176 63.0 0.0 141.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.847 min Scan# 1682
Delta R.T. -0.000 min
Lab File: VN087542.D
Acq: 13 Aug 2025 17:50

Tgt Ion: 117 Resp: 322702
Ion Ratio Lower Upper
117 100
82 60.7 47.4 71.2
119 32.2 23.8 35.8





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.770 min Scan# 2009

Delta R.T. 0.000 min

Lab File: VN087542.D

Acq: 13 Aug 2025 17:50

Instrument :

MSVOA_N

ClientSampleId :

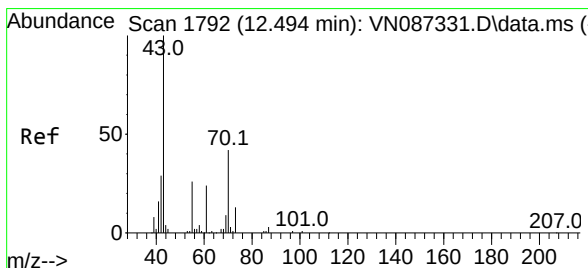
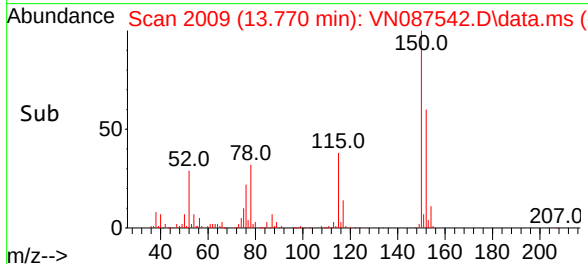
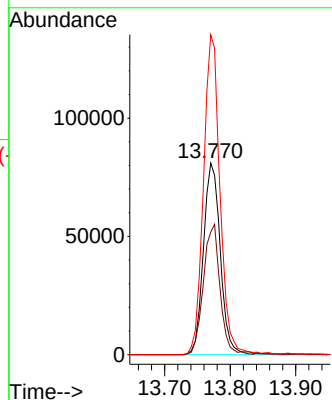
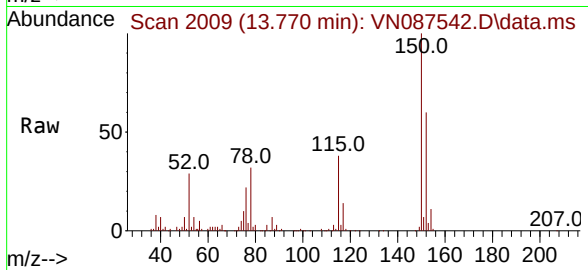
Tgt Ion:152 Resp: 146190

Ion Ratio Lower Upper

152 100

115 66.4 31.1 93.5

150 162.7 0.0 349.0



#74

N-ethyl acetate

Concen: 0.275 ug/l

RT: 12.470 min Scan# 1788

Delta R.T. -0.024 min

Lab File: VN087542.D

Acq: 13 Aug 2025 17:50

Tgt Ion: 43 Resp: 1053

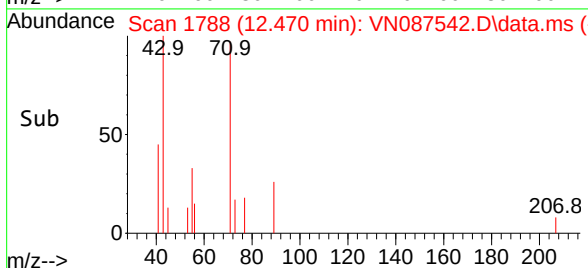
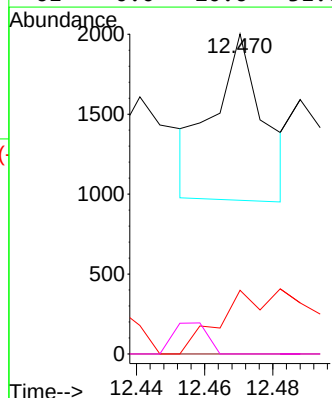
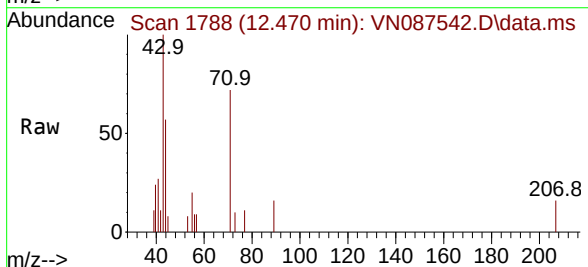
Ion Ratio Lower Upper

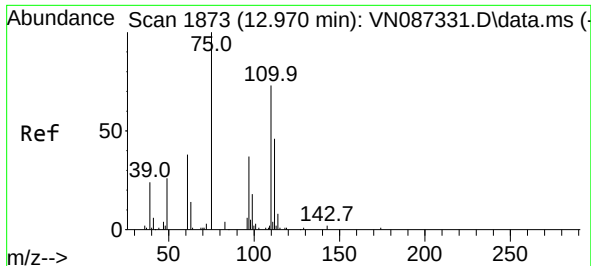
43 100

70 0.0 37.6 56.4#

55 86.3 19.6 29.4#

61 0.0 20.6 31.0#

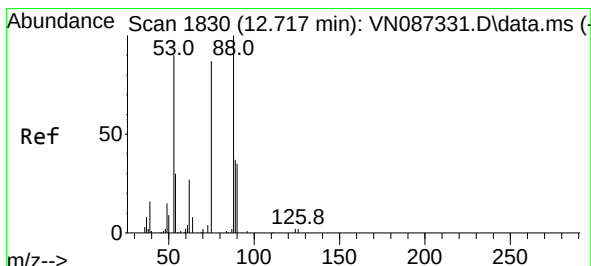
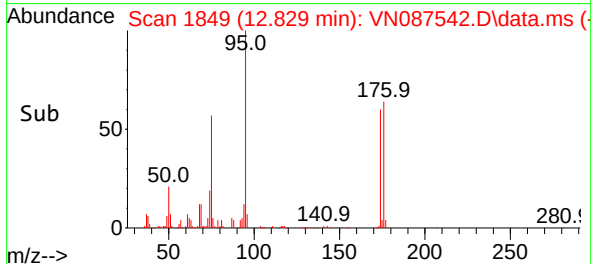
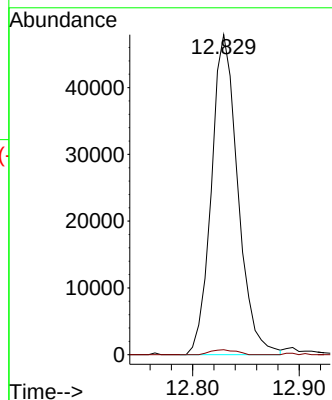
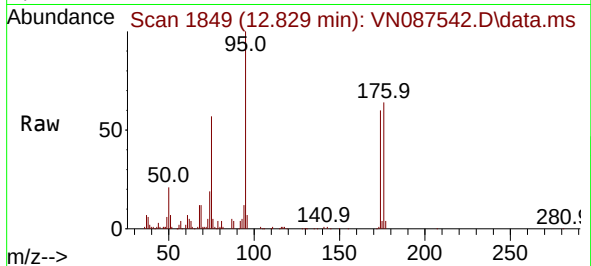




#76
1,2,3-Trichloropropane
Concen: 25.225 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. -0.141 min
Lab File: VN087542.D
Acq: 13 Aug 2025 17:50

Instrument :
MSVOA_N
ClientSampleId :

Tgt Ion: 75 Resp: 82692
Ion Ratio Lower Upper
75 100
77 1.5 94.5 283.6#



#81
trans-1,4-Dichloro-2-butene
Concen: 69.019 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.112 min
Lab File: VN087542.D
Acq: 13 Aug 2025 17:50

Tgt Ion: 75 Resp: 82692
Ion Ratio Lower Upper
75 100
53 0.0 83.5 125.3#
89 0.1 38.4 57.6#

