

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN081225\
 Data File : VN087510.D
 Acq On : 12 Aug 2025 13:41
 Operator : JC\MD
 Sample : Q2831-03
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VNJ-238

Quant Time: Aug 13 03:03:52 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)

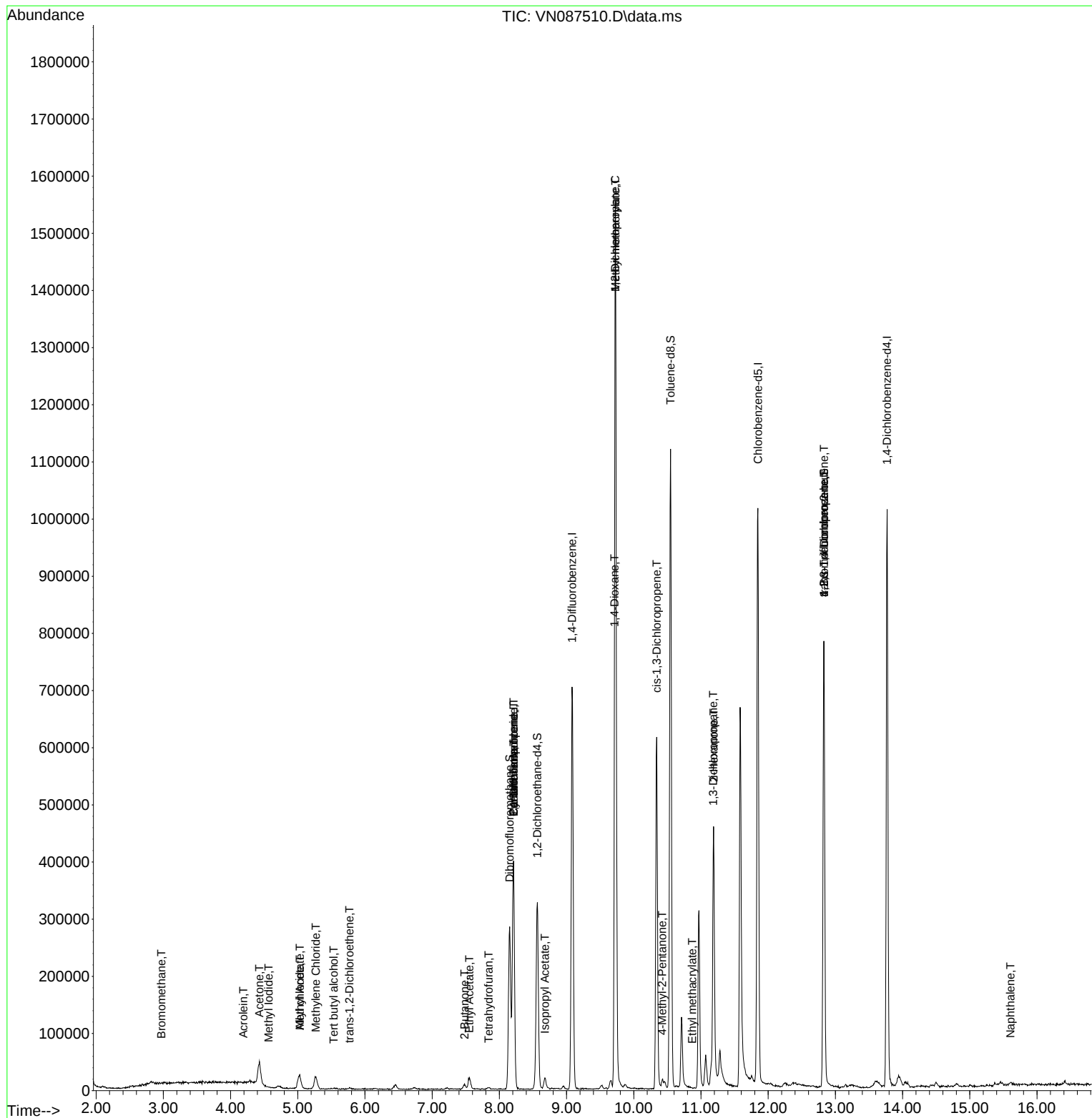
Internal Standards						
1) Pentafluorobenzene	8.212	168	262119	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.083	114	575320	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.847	117	548538	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.770	152	255246	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.565	65	277561	62.407	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 124.820%			
35) Dibromofluoromethane	8.153	113	202445	51.012	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 102.020%			
50) Toluene-d8	10.547	98	742049	52.418	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 104.840%			
62) 4-Bromofluorobenzene	12.829	95	281368	53.798	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 107.600%			
Target Compounds					Qvalue	
5) Bromomethane	2.971	94	985	0.547	ug/l #	4
10) Methyl Iodide	4.565	142	140	5.677	ug/l #	40
11) Tert butyl alcohol	5.536	59	439	0.520	ug/l #	72
13) Acrolein	4.189	56	239	0.353	ug/l #	15
14) Allyl chloride	5.030	41	1691	0.312	ug/l #	36
16) Acetone	4.430	43	65213	31.272	ug/l	93
18) Methyl Acetate	5.030	43	55595	10.611	ug/l	100
20) Methylene Chloride	5.271	84	15919	3.926	ug/l	94
21) trans-1,2-Dichloroethene	5.771	96	1018	0.302	ug/l #	48
25) 2-Butanone	7.483	43	13989	4.342	ug/l #	87
29) Tetrahydrofuran	7.841	42	2251	1.075	ug/l #	73
31) Cyclohexane	8.212	56	8773	1.604	ug/l #	23
36) 1,1-Dichloropropene	8.212	75	25348	4.834	ug/l #	51
37) Ethyl Acetate	7.553	43	32199	4.252	ug/l	98
38) Carbon Tetrachloride	8.212	117	31161	5.395	ug/l #	16
43) Isopropyl Acetate	8.677	43	24654	2.097	ug/l #	88
45) 1,2-Dichloropropane	9.724	63	2322	0.539	ug/l #	41
48) Methyl methacrylate	9.730	41	153642	29.033	ug/l #	46
49) 1,4-Dioxane	9.712	88	69	0.851	ug/l #	1
51) 4-Methyl-2-Pentanone	10.424	43	11192	1.505	ug/l	95
54) cis-1,3-Dichloropropene	10.341	75	105762	15.580	ug/l #	68
56) Ethyl methacrylate	10.871	69	143	0.656	ug/l #	1
57) 1,3-Dichloropropane	11.182	76	5362	0.744	ug/l #	42
59) 2-Hexanone	11.188	43	104836	21.254	ug/l #	44
76) 1,2,3-Trichloropropane	12.829	75	162986	28.476	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.829	75	162986	77.914	ug/l #	8
95) Naphthalene	15.606	128	4255	0.264	ug/l	96

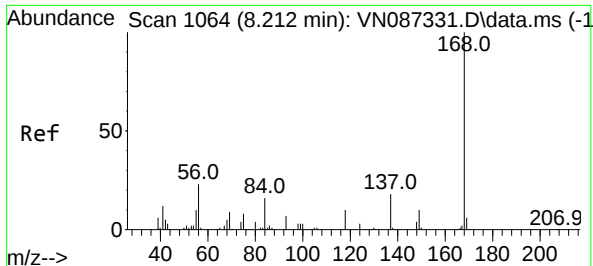
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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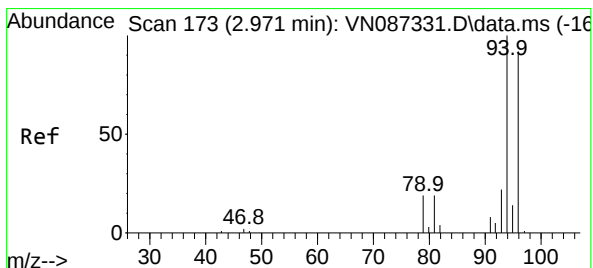
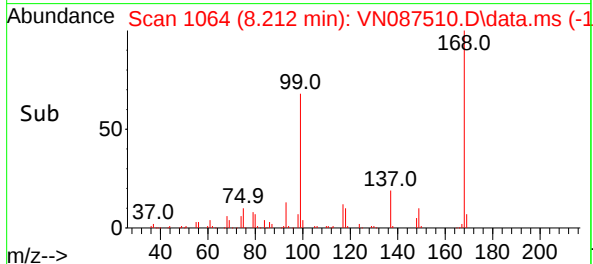
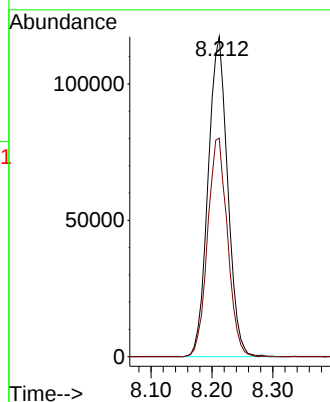
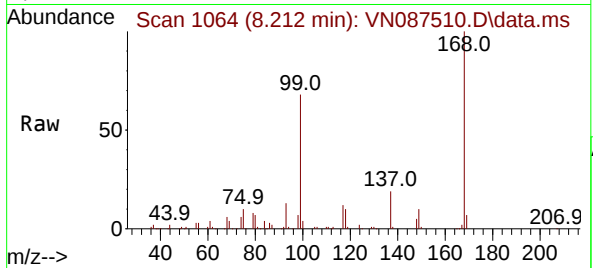




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.212 min Scan# 1064
Delta R.T. 0.000 min
Lab File: VN087510.D
Acq: 12 Aug 2025 13:41

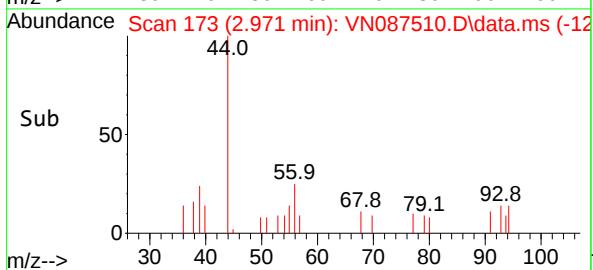
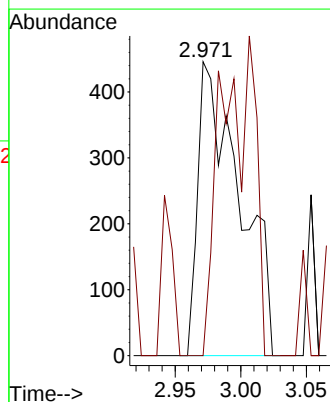
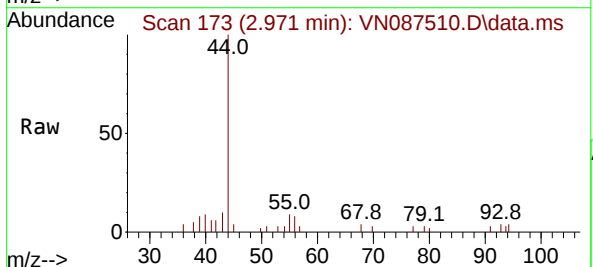
Instrument :
MSVOA_N
ClientSampleId :
VNJ-238

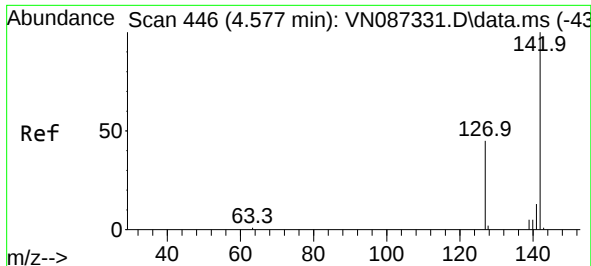
Tgt Ion:168 Resp: 262119
Ion Ratio Lower Upper
168 100
99 68.3 47.9 71.9



#5
Bromomethane
Concen: 0.547 ug/l
RT: 2.971 min Scan# 173
Delta R.T. 0.000 min
Lab File: VN087510.D
Acq: 12 Aug 2025 13:41

Tgt Ion: 94 Resp: 985
Ion Ratio Lower Upper
94 100
96 0.0 73.4 110.2#

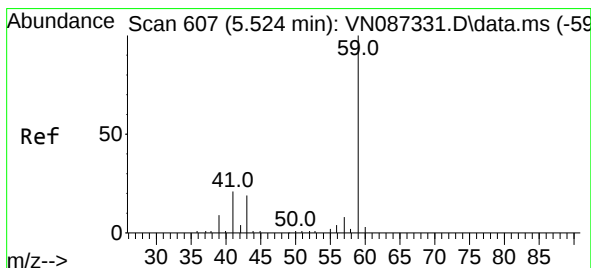
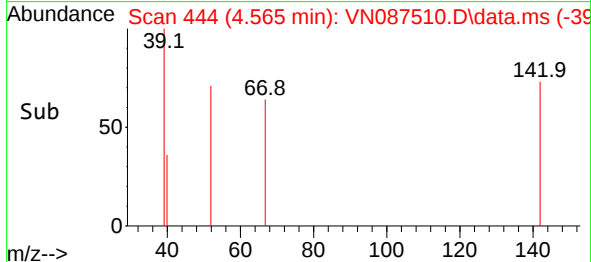
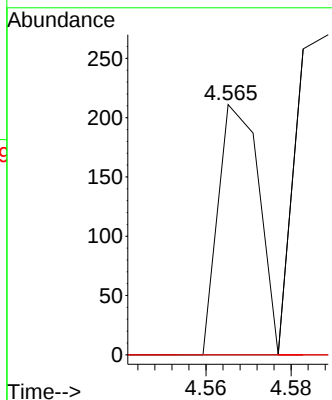
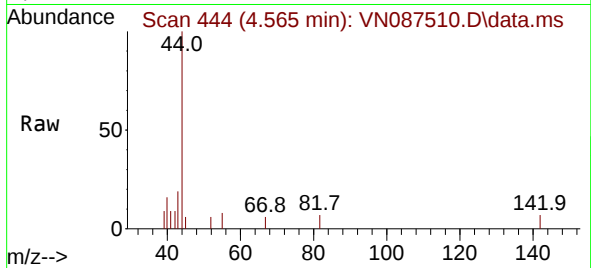




#10
Methyl Iodide
Concen: 5.677 ug/l
RT: 4.565 min Scan# 446
Delta R.T. -0.012 min
Lab File: VN087510.D
Acq: 12 Aug 2025 13:41

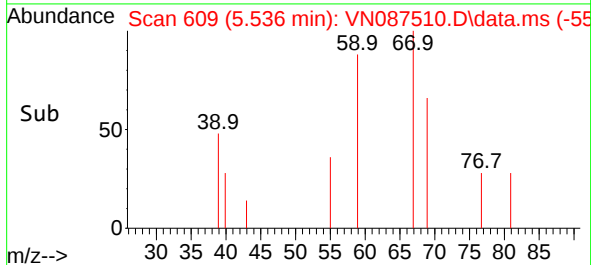
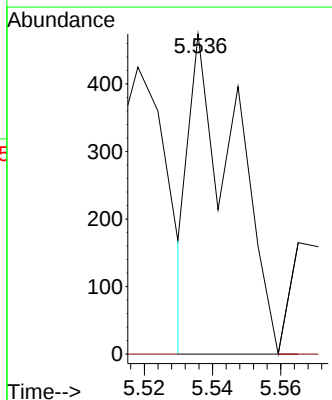
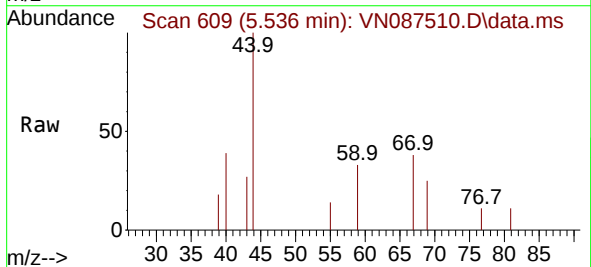
Instrument :
MSVOA_N
ClientSampleId :
VNJ-238

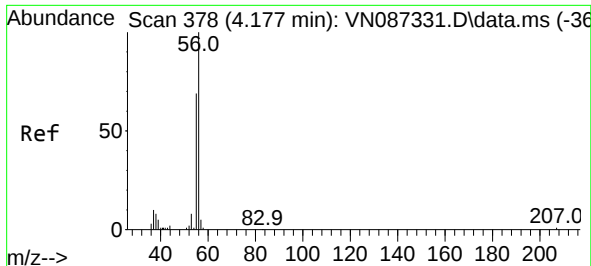
Tgt Ion:142 Resp: 140
Ion Ratio Lower Upper
142 100
127 0.0 35.7 53.5#
141 0.0 10.4 15.6#



#11
Tert butyl alcohol
Concen: 0.520 ug/l
RT: 5.536 min Scan# 609
Delta R.T. 0.012 min
Lab File: VN087510.D
Acq: 12 Aug 2025 13:41

Tgt Ion: 59 Resp: 439
Ion Ratio Lower Upper
59 100
57 0.0 8.3 12.5#

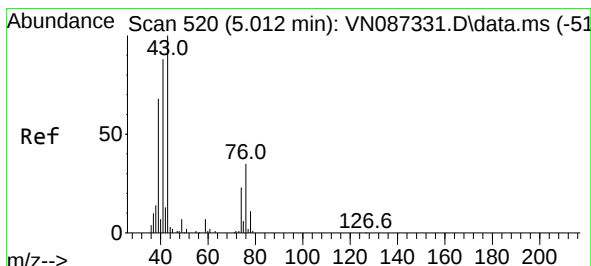
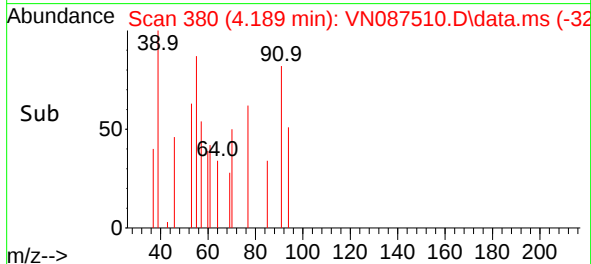
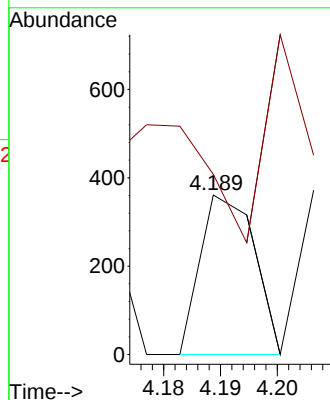
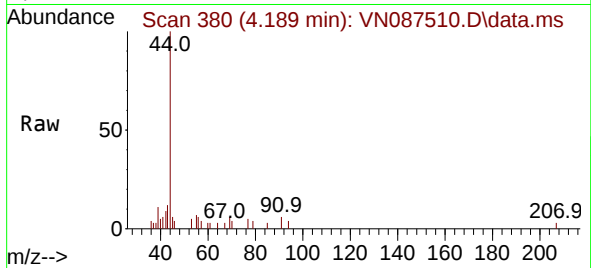




#13
Acrolein
Concen: 0.353 ug/l
RT: 4.189 min Scan# 31
Delta R.T. 0.012 min
Lab File: VN087510.D
Acq: 12 Aug 2025 13:41

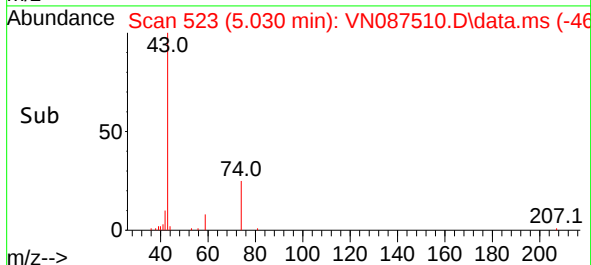
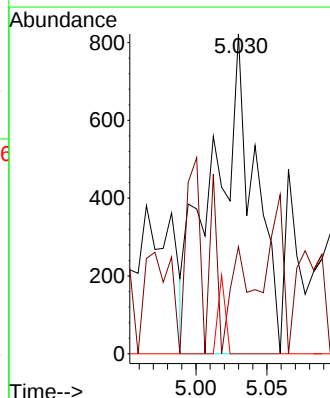
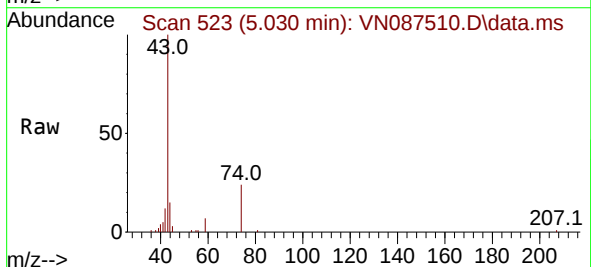
Instrument :
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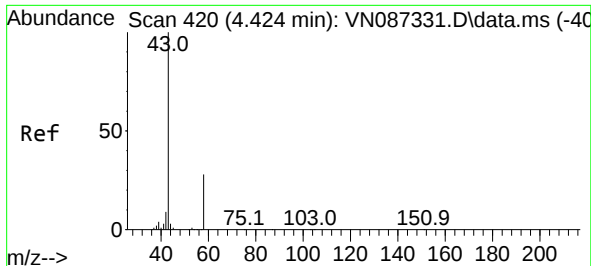
Tgt Ion: 56 Resp: 239
Ion Ratio Lower Upper
56 100
55 0.0 56.2 84.4#



#14
Allyl chloride
Concen: 0.312 ug/l
RT: 5.030 min Scan# 523
Delta R.T. 0.018 min
Lab File: VN087510.D
Acq: 12 Aug 2025 13:41

Tgt Ion: 41 Resp: 1691
Ion Ratio Lower Upper
41 100
39 15.7 59.0 88.6#
76 4.2 28.7 43.1#

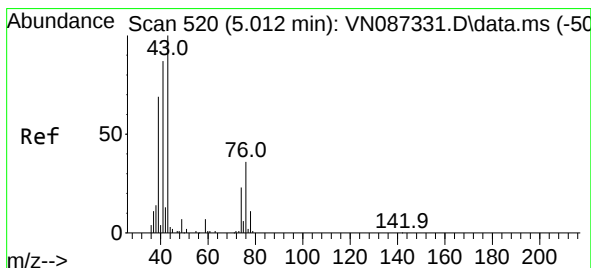
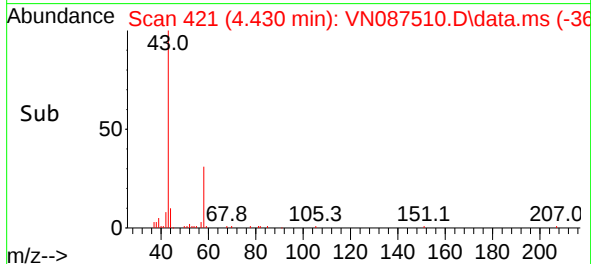
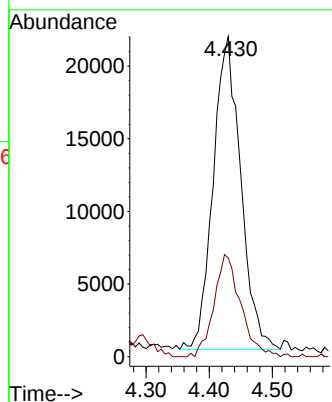
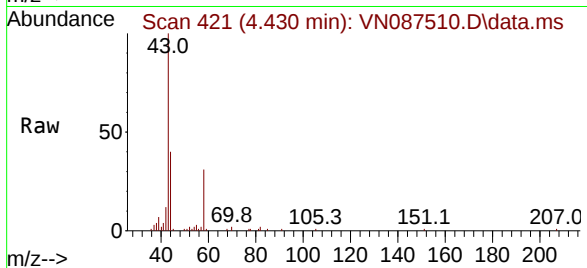




#16
Acetone
Concen: 31.272 ug/l
RT: 4.430 min Scan# 421
Delta R.T. 0.006 min
Lab File: VN087510.D
Acq: 12 Aug 2025 13:41

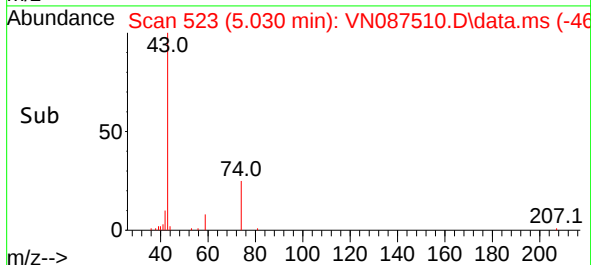
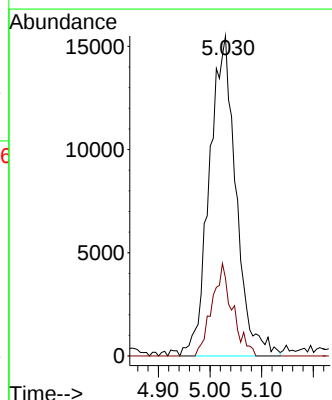
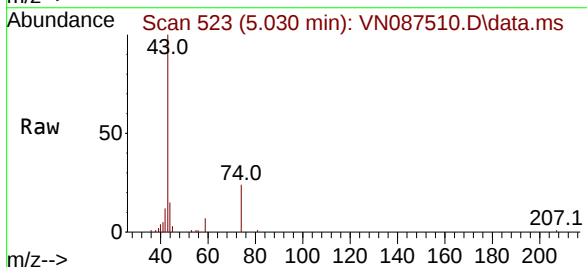
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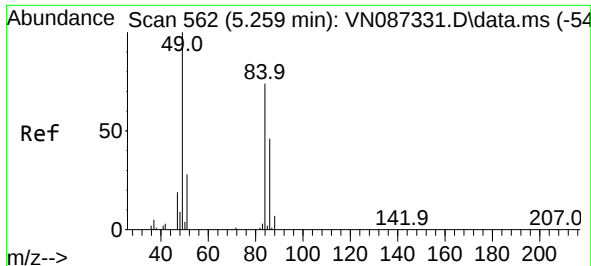
Tgt Ion: 43 Resp: 65213
Ion Ratio Lower Upper
43 100
58 31.7 22.3 33.5



#18
Methyl Acetate
Concen: 10.611 ug/l
RT: 5.030 min Scan# 523
Delta R.T. 0.018 min
Lab File: VN087510.D
Acq: 12 Aug 2025 13:41

Tgt Ion: 43 Resp: 55595
Ion Ratio Lower Upper
43 100
74 22.3 17.8 26.6

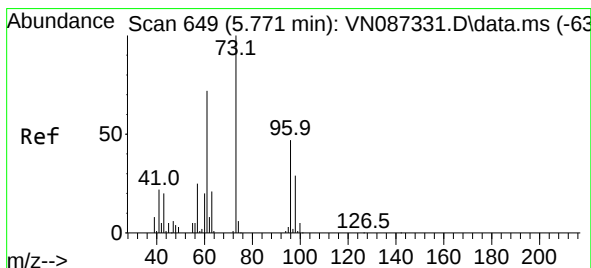
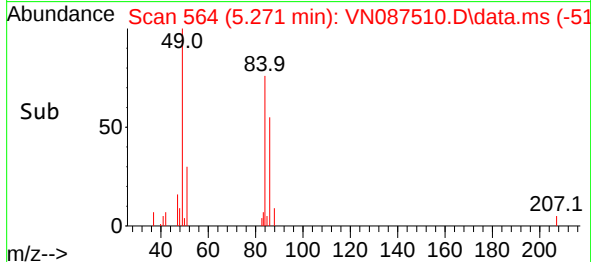
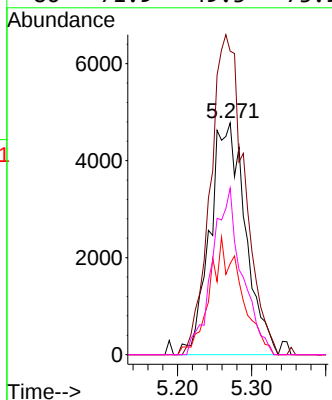
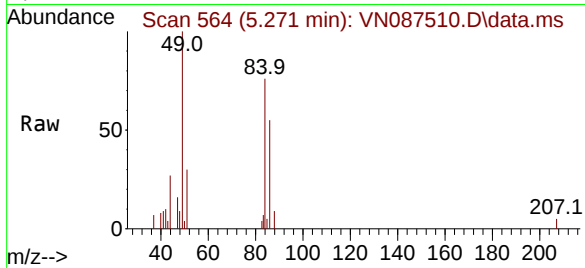




#20
Methylene Chloride
Concen: 3.926 ug/l
RT: 5.271 min Scan# 564
Delta R.T. 0.012 min
Lab File: VN087510.D
Acq: 12 Aug 2025 13:41

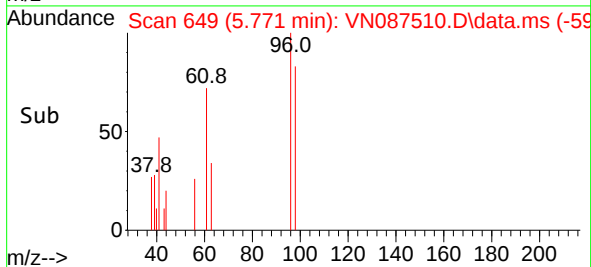
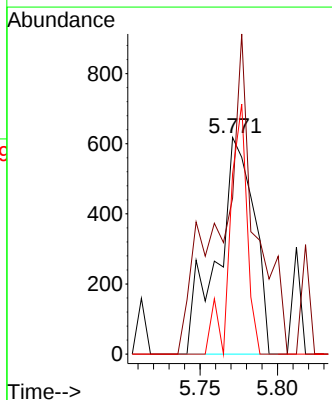
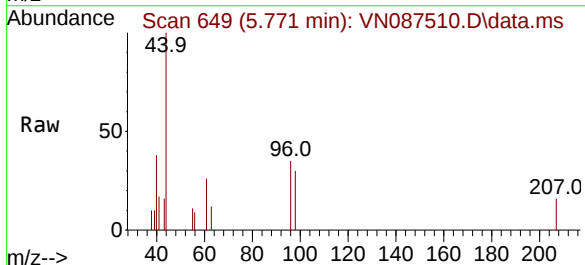
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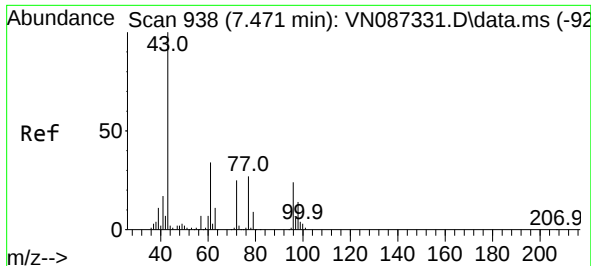
Tgt Ion:	84	Resp:	15919
Ion	Ratio	Lower	Upper
84	100		
49	130.9	107.5	161.3
51	39.4	30.2	45.2
86	71.9	49.3	73.9



#21
trans-1,2-Dichloroethene
Concen: 0.302 ug/l
RT: 5.771 min Scan# 649
Delta R.T. -0.000 min
Lab File: VN087510.D
Acq: 12 Aug 2025 13:41

Tgt Ion:	96	Resp:	1018
Ion	Ratio	Lower	Upper
96	100		
61	72.0	122.0	183.0#
98	83.2	50.0	75.0#

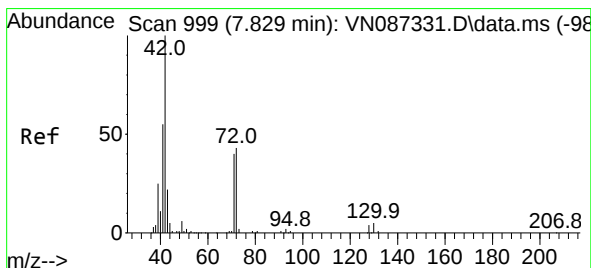
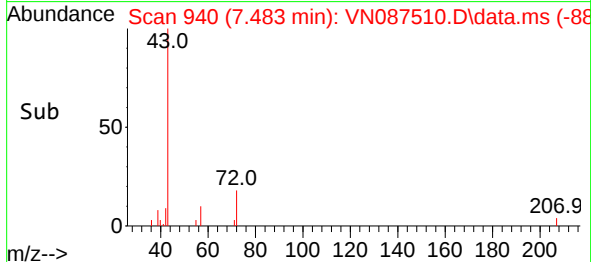
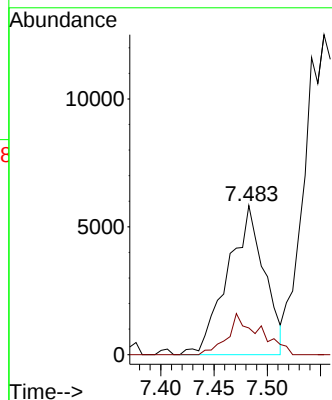
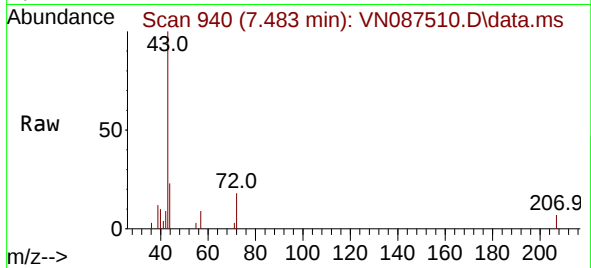




#25
2-Butanone
Concen: 4.342 ug/l
RT: 7.483 min Scan# 94
Delta R.T. 0.012 min
Lab File: VN087510.D
Acq: 12 Aug 2025 13:41

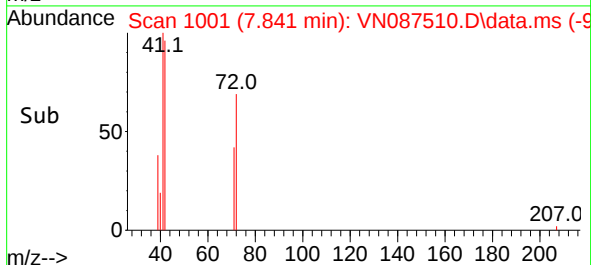
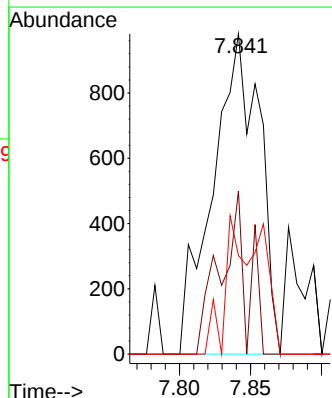
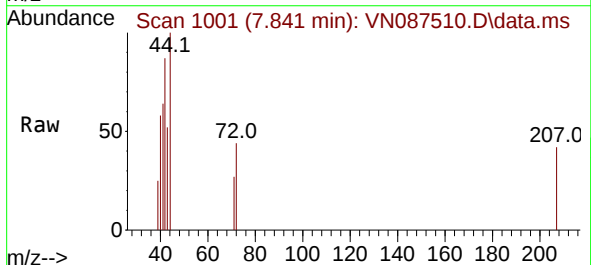
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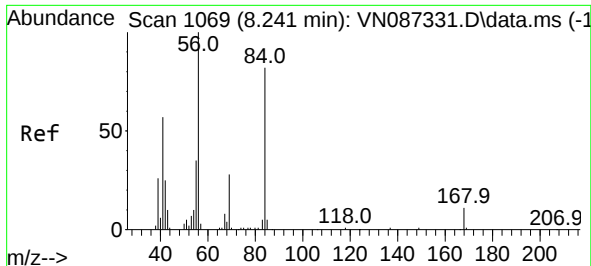
Tgt Ion: 43 Resp: 13989
Ion Ratio Lower Upper
43 100
72 18.0 19.6 29.4#



#29
Tetrahydrofuran
Concen: 1.075 ug/l
RT: 7.841 min Scan# 1001
Delta R.T. 0.012 min
Lab File: VN087510.D
Acq: 12 Aug 2025 13:41

Tgt Ion: 42 Resp: 2251
Ion Ratio Lower Upper
42 100
72 29.2 33.4 50.0#
71 18.3 31.2 46.8#

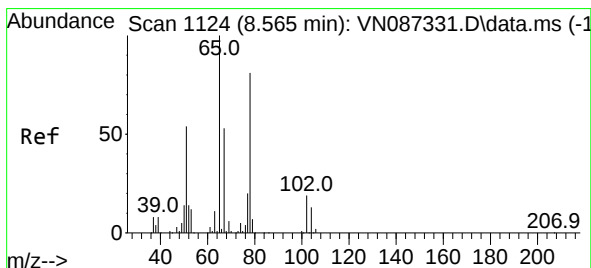
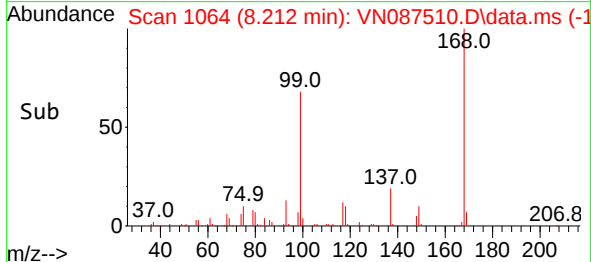
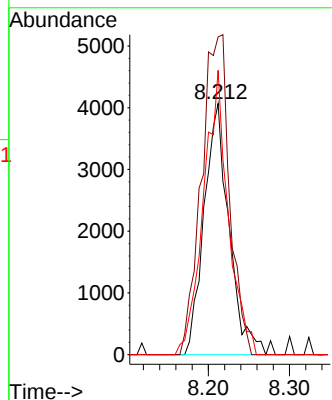
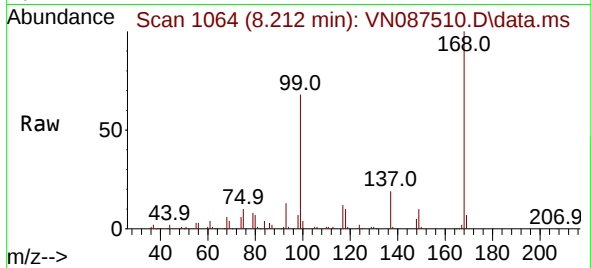




#31
Cyclohexane
Concen: 1.604 ug/l
RT: 8.212 min Scan# 1064
Delta R.T. -0.029 min
Lab File: VN087510.D
Acq: 12 Aug 2025 13:41

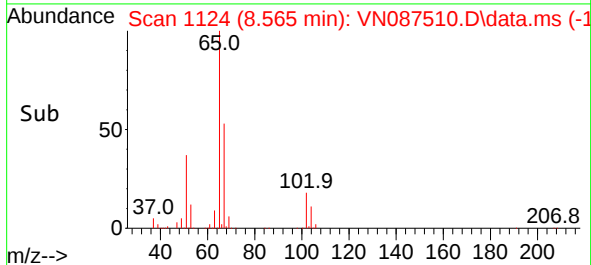
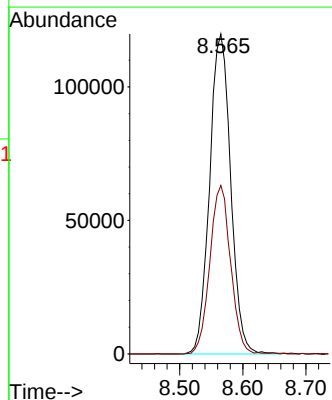
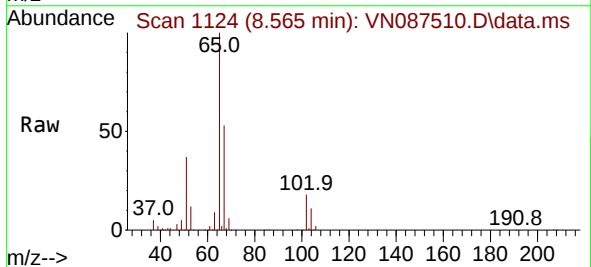
Instrument :
MSVOA_N
ClientSampleId :
VNJ-238

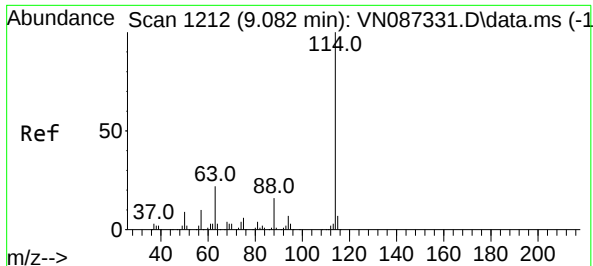
Tgt Ion: 56 Resp: 8773
Ion Ratio Lower Upper
56 100
69 126.5 22.7 34.1#
84 117.5 65.8 98.6#



#33
1,2-Dichloroethane-d4
Concen: 62.407 ug/l
RT: 8.565 min Scan# 1124
Delta R.T. 0.000 min
Lab File: VN087510.D
Acq: 12 Aug 2025 13:41

Tgt Ion: 65 Resp: 277561
Ion Ratio Lower Upper
65 100
67 52.0 0.0 104.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.083 min Scan# 1

Delta R.T. 0.001 min

Lab File: VN087510.D

Acq: 12 Aug 2025 13:41

Instrument :

MSVOA_N

ClientSampleId :

VNJ-238

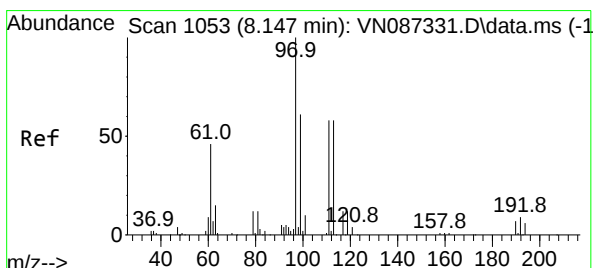
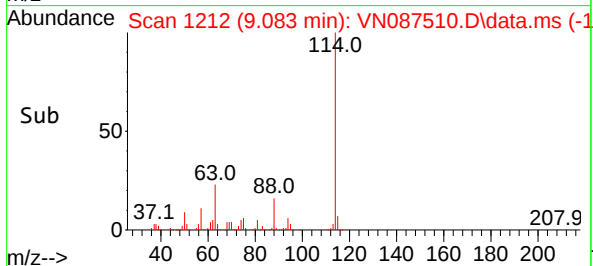
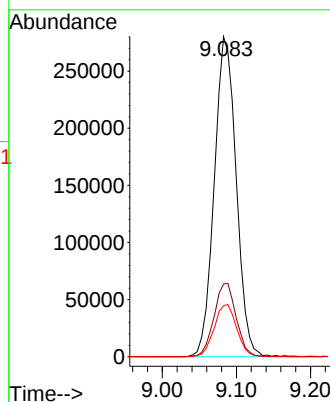
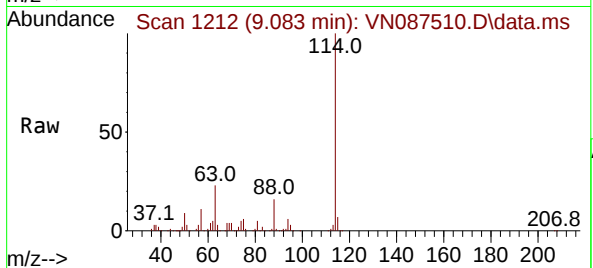
Tgt Ion:114 Resp: 575320

Ion Ratio Lower Upper

114 100

63 22.7 0.0 44.6

88 16.0 0.0 32.8



#35

Dibromofluoromethane

Concen: 51.012 ug/l

RT: 8.153 min Scan# 1054

Delta R.T. 0.006 min

Lab File: VN087510.D

Acq: 12 Aug 2025 13:41

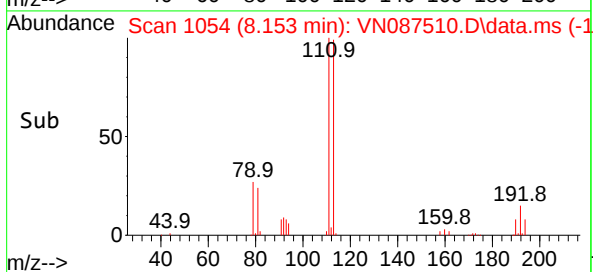
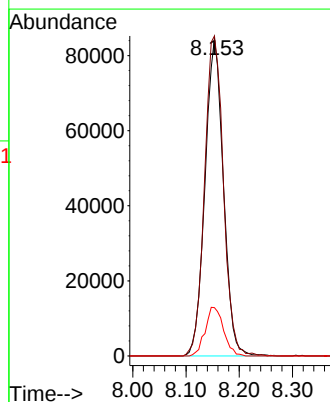
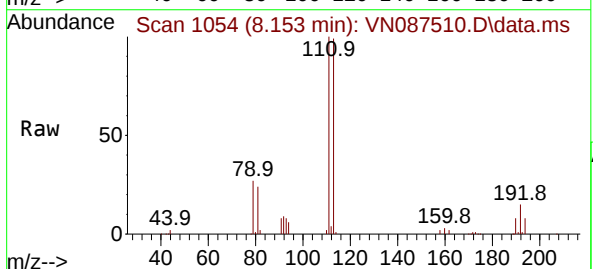
Tgt Ion:113 Resp: 202445

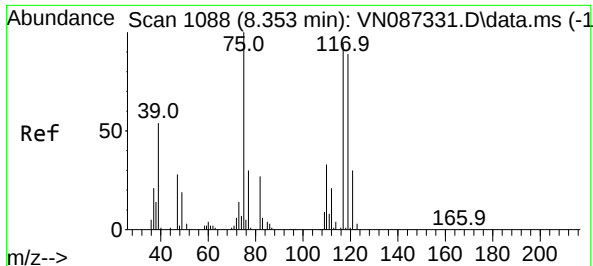
Ion Ratio Lower Upper

113 100

111 103.2 82.5 123.7

192 15.3 13.7 20.5





#36

1,1-Dichloropropene

Concen: 4.834 ug/l

RT: 8.212 min Scan# 1064

Delta R.T. -0.141 min

Lab File: VN087510.D

Acq: 12 Aug 2025 13:41

Instrument :

MSVOA_N

ClientSampleId :

VNJ-238

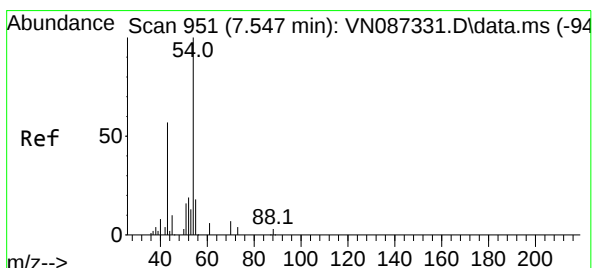
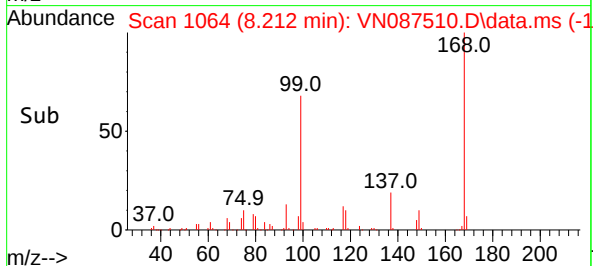
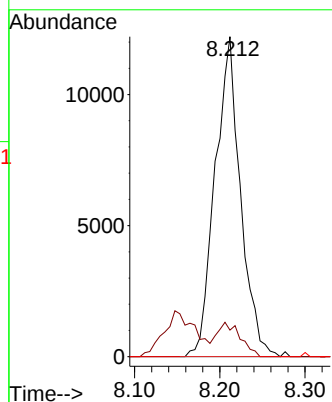
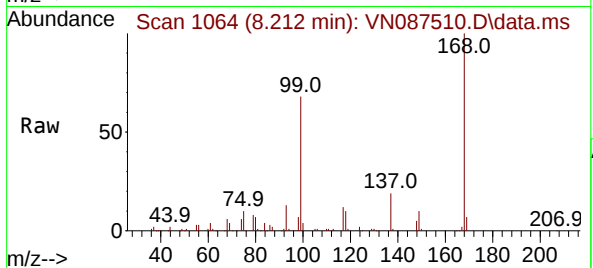
Tgt Ion: 75 Resp: 25348

Ion Ratio Lower Upper

75 100

110 9.9 16.7 50.1#

77 0.0 25.2 37.8#



#37

Ethyl Acetate

Concen: 4.252 ug/l

RT: 7.553 min Scan# 952

Delta R.T. 0.006 min

Lab File: VN087510.D

Acq: 12 Aug 2025 13:41

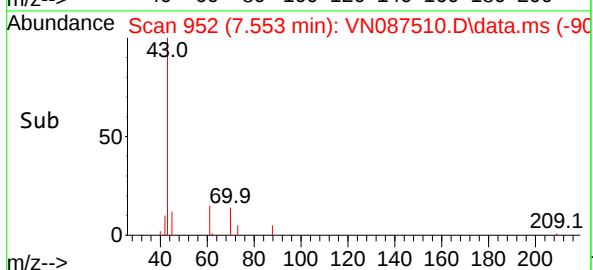
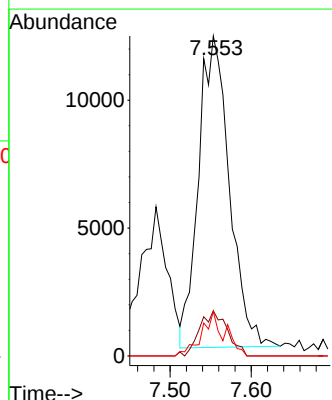
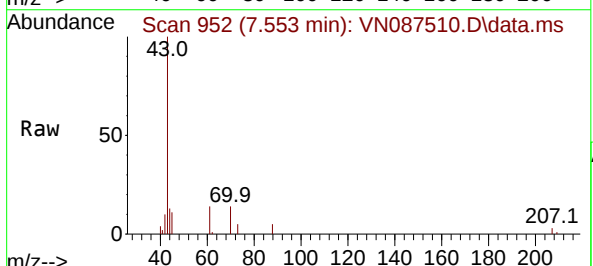
Tgt Ion: 43 Resp: 32199

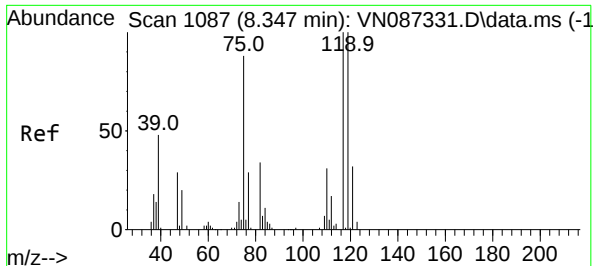
Ion Ratio Lower Upper

43 100

61 13.0 10.9 16.3

70 8.0 7.4 11.0

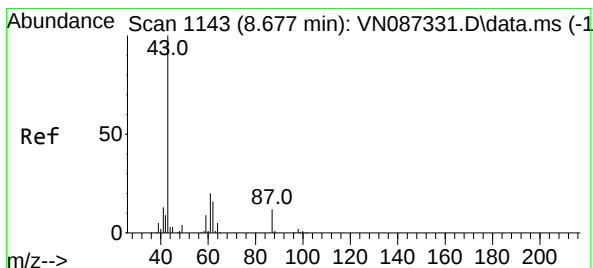
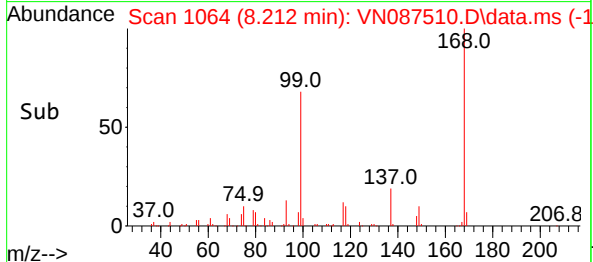
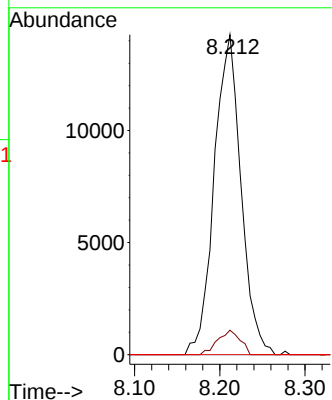
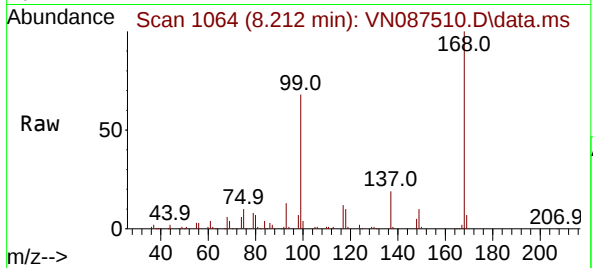




#38
Carbon Tetrachloride
Concen: 5.395 ug/l
RT: 8.212 min Scan# 1064
Delta R.T. -0.135 min
Lab File: VN087510.D
Acq: 12 Aug 2025 13:41

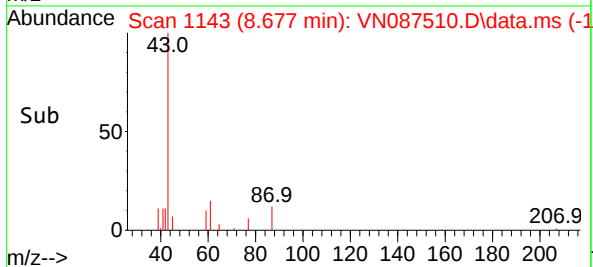
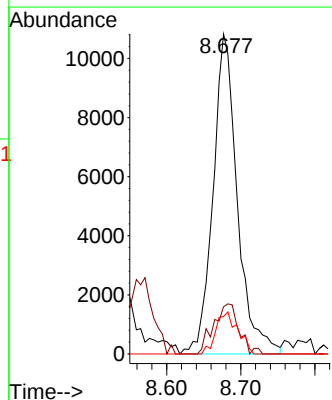
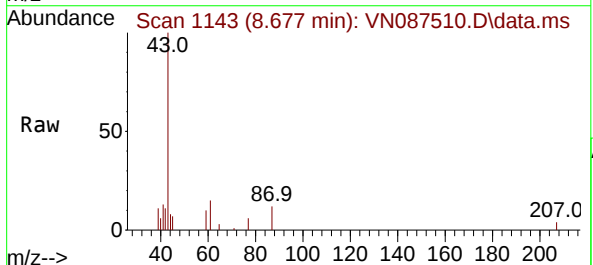
Instrument :
MSVOA_N
ClientSampleId :
VNJ-238

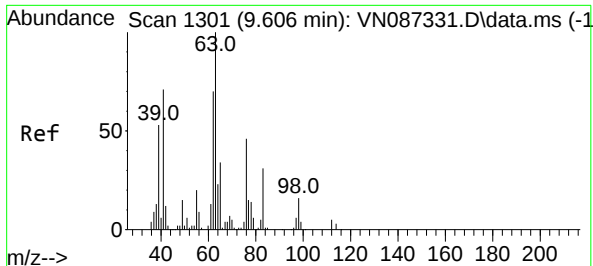
Tgt Ion:117 Resp: 31161
Ion Ratio Lower Upper
117 100
119 7.7 80.2 120.2#
121 0.0 25.4 38.2#



#43
Isopropyl Acetate
Concen: 2.097 ug/l
RT: 8.677 min Scan# 1143
Delta R.T. -0.000 min
Lab File: VN087510.D
Acq: 12 Aug 2025 13:41

Tgt Ion: 43 Resp: 24654
Ion Ratio Lower Upper
43 100
61 16.3 19.8 29.8#
87 11.8 9.8 14.6





#45

1,2-Dichloropropane

Concen: 0.539 ug/l

RT: 9.724 min Scan# 1

Delta R.T. 0.118 min

Lab File: VN087510.D

Acq: 12 Aug 2025 13:41

Instrument :

MSVOA_N

ClientSampleId :

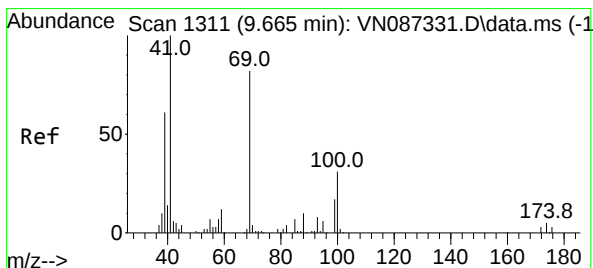
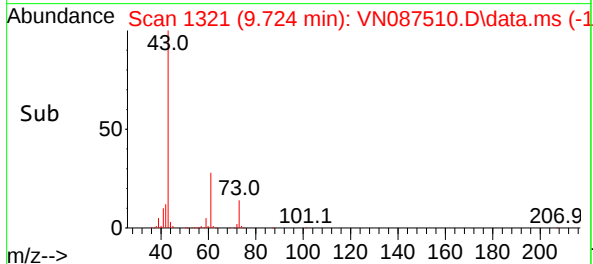
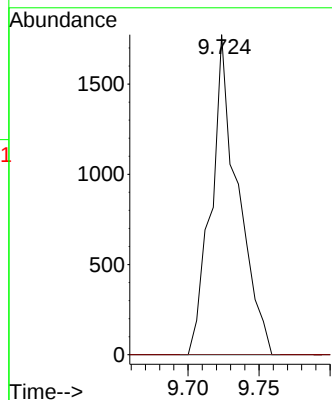
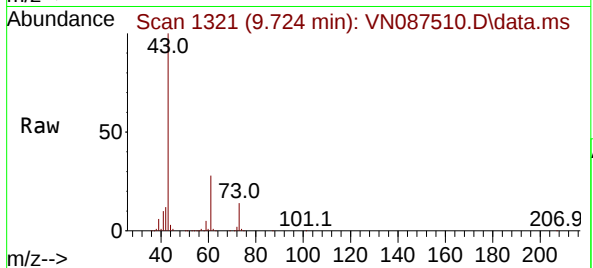
VNJ-238

Tgt Ion: 63 Resp: 2322

Ion Ratio Lower Upper

63 100

65 0.0 27.0 40.4#



#48

Methyl methacrylate

Concen: 29.033 ug/l

RT: 9.730 min Scan# 1322

Delta R.T. 0.065 min

Lab File: VN087510.D

Acq: 12 Aug 2025 13:41

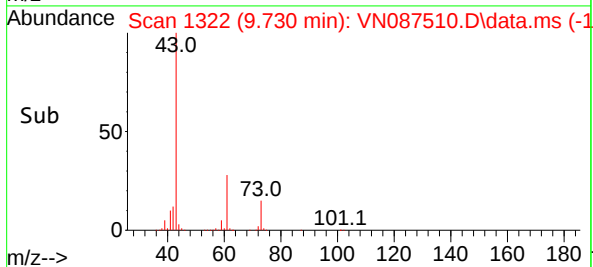
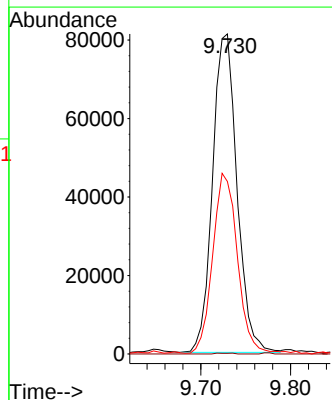
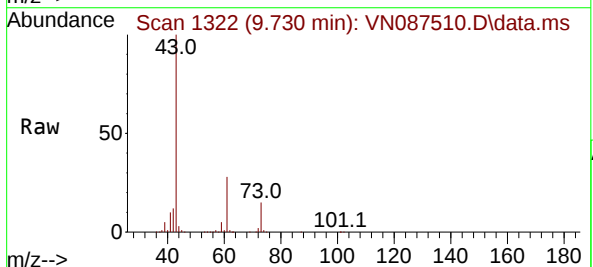
Tgt Ion: 41 Resp: 153642

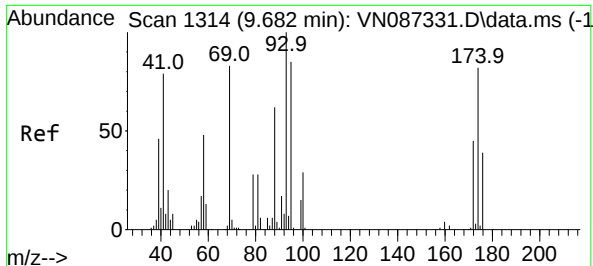
Ion Ratio Lower Upper

41 100

69 0.2 64.1 96.1#

39 58.0 45.5 68.3





#49

1,4-Dioxane

Concen: 0.851 ug/l

RT: 9.712 min Scan# 1

Delta R.T. 0.030 min

Lab File: VN087510.D

Acq: 12 Aug 2025 13:41

Instrument :

MSVOA_N

ClientSampleId :

VNJ-238

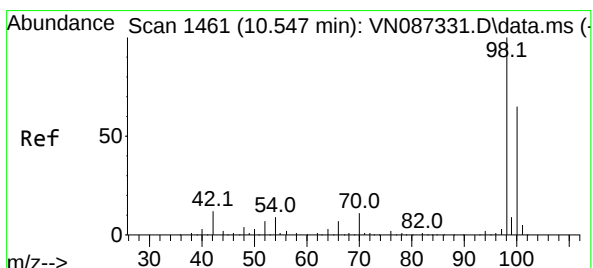
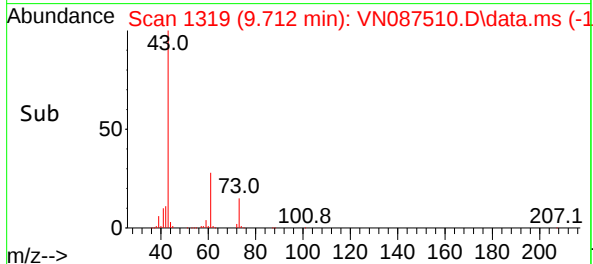
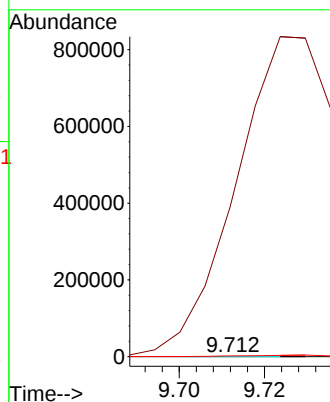
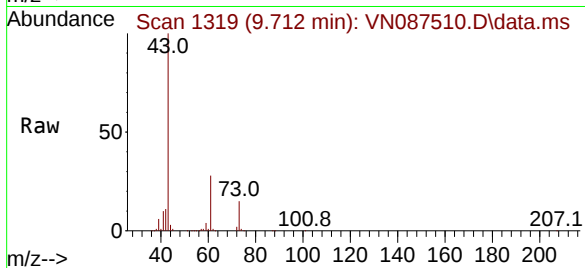
Tgt Ion: 88 Resp: 69

Ion Ratio Lower Upper

88 100

43 2297346.4 0.0 0.0#

58 10839.1 61.1 91.7#



#50

Toluene-d8

Concen: 52.418 ug/l

RT: 10.547 min Scan# 1461

Delta R.T. 0.000 min

Lab File: VN087510.D

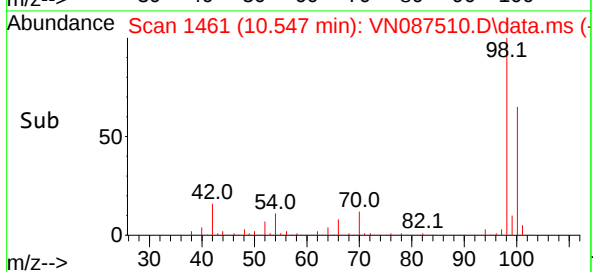
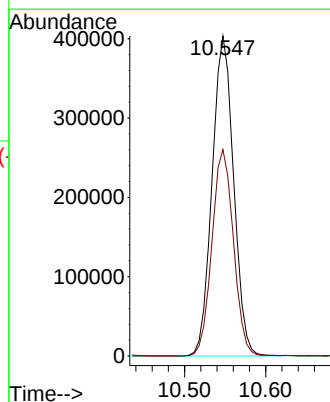
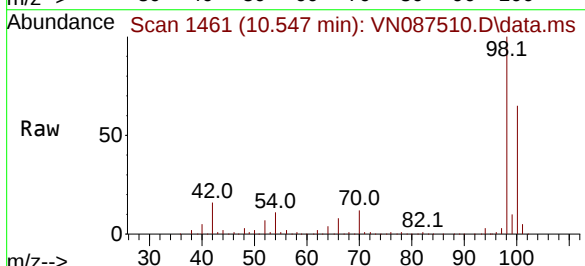
Acq: 12 Aug 2025 13:41

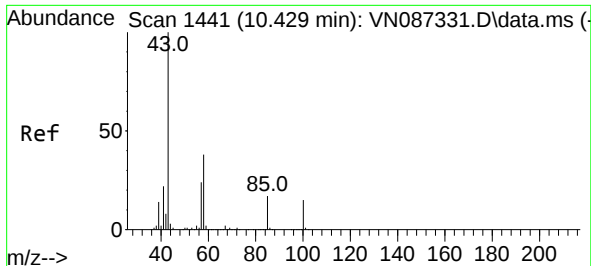
Tgt Ion: 98 Resp: 742049

Ion Ratio Lower Upper

98 100

100 64.5 52.1 78.1

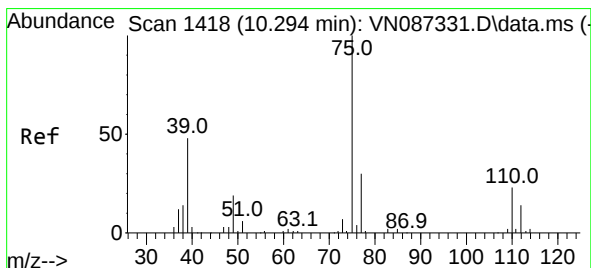
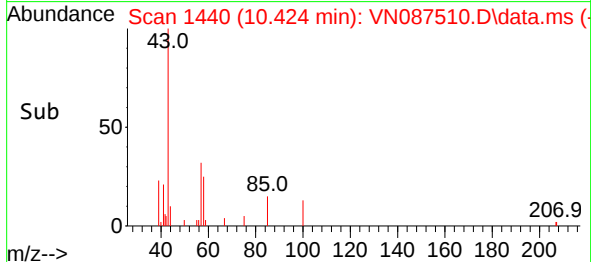
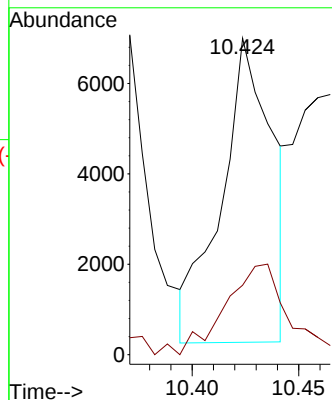
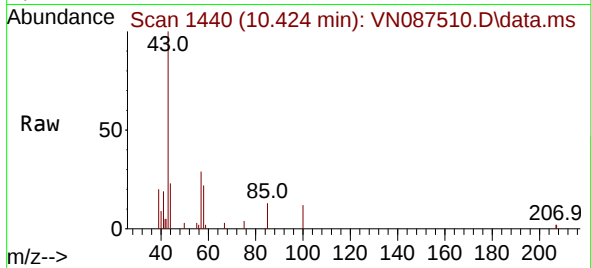




#51
4-Methyl-2-Pentanone
Concen: 1.505 ug/l
RT: 10.424 min Scan# 1441
Delta R.T. -0.005 min
Lab File: VN087510.D
Acq: 12 Aug 2025 13:41

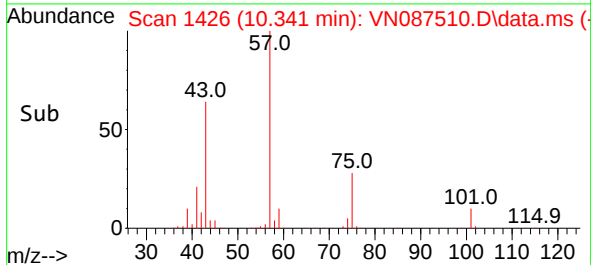
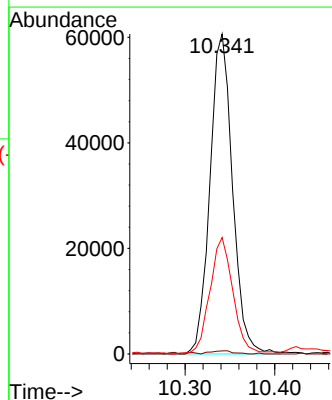
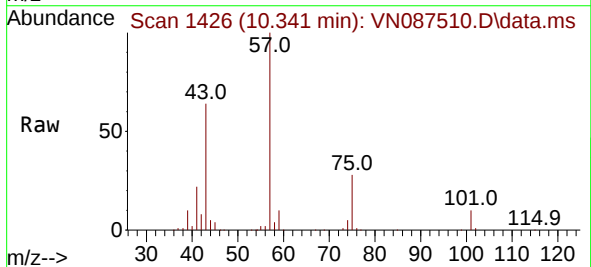
Instrument :
MSVOA_N
ClientSampleId :
VNJ-238

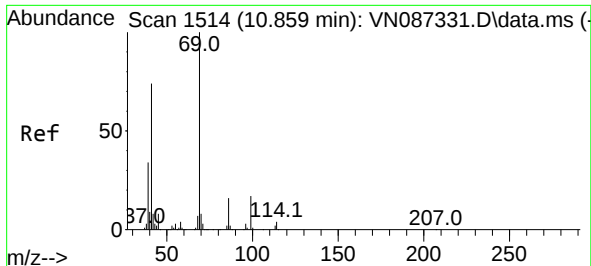
Tgt Ion: 43 Resp: 11192
Ion Ratio Lower Upper
43 100
58 35.7 30.8 46.2



#54
cis-1,3-Dichloropropene
Concen: 15.580 ug/l
RT: 10.341 min Scan# 1426
Delta R.T. 0.047 min
Lab File: VN087510.D
Acq: 12 Aug 2025 13:41

Tgt Ion: 75 Resp: 105762
Ion Ratio Lower Upper
75 100
77 1.0 24.2 36.2#
39 36.1 38.4 57.6#

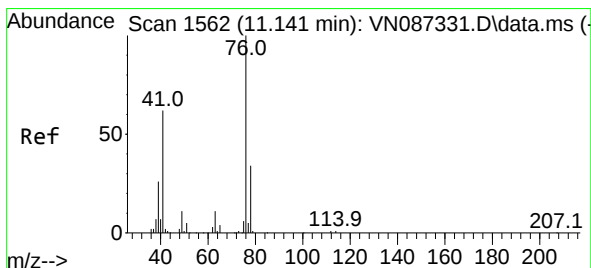
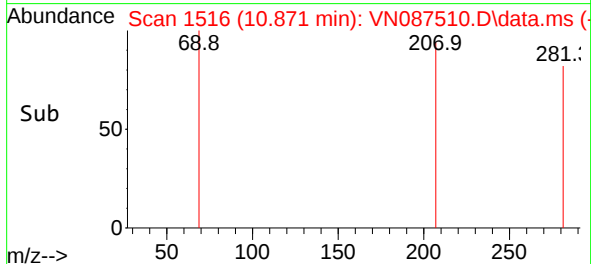
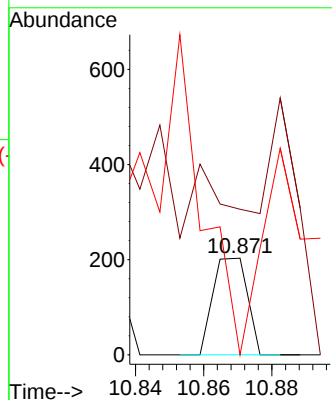
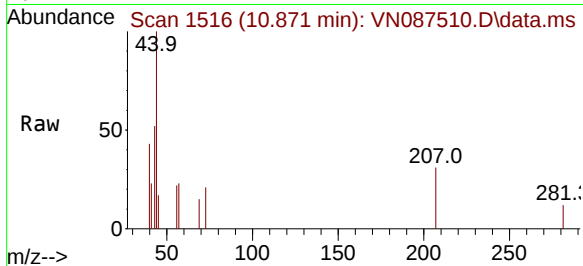




#56
Ethyl methacrylate
Concen: 0.656 ug/l
RT: 10.871 min Scan# 1516
Delta R.T. 0.012 min
Lab File: VN087510.D
Acq: 12 Aug 2025 13:41

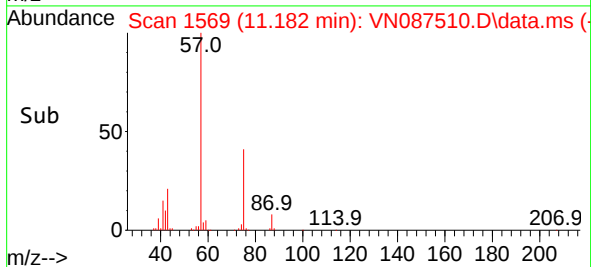
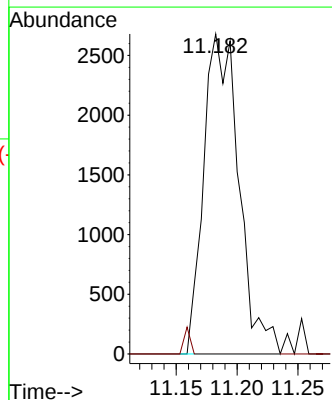
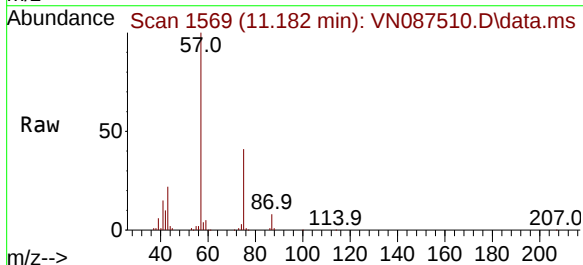
Instrument :
MSVOA_N
ClientSampleId :
VNJ-238

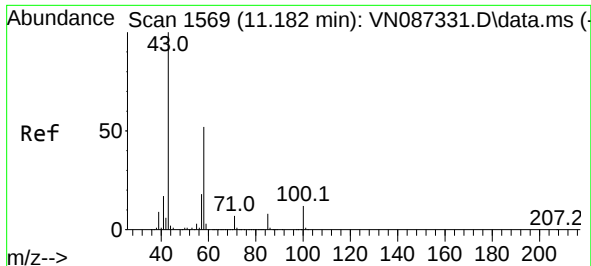
Tgt Ion: 69 Resp: 143
Ion Ratio Lower Upper
69 100
41 0.0 55.1 82.7#
39 644.1 27.9 41.9#



#57
1,3-Dichloropropane
Concen: 0.744 ug/l
RT: 11.182 min Scan# 1569
Delta R.T. 0.041 min
Lab File: VN087510.D
Acq: 12 Aug 2025 13:41

Tgt Ion: 76 Resp: 5362
Ion Ratio Lower Upper
76 100
78 0.0 26.0 39.0#

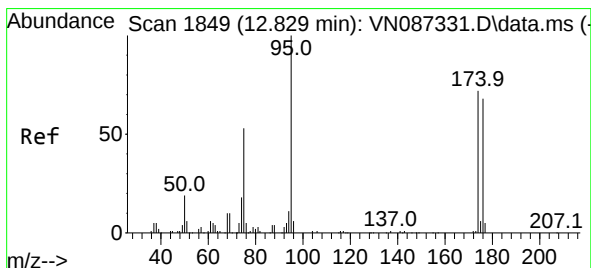
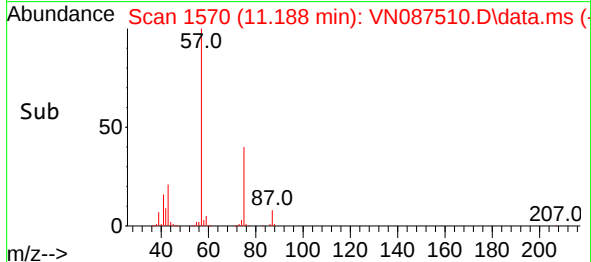
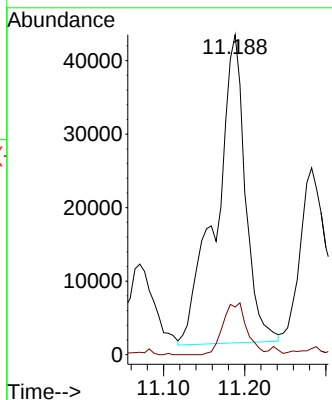
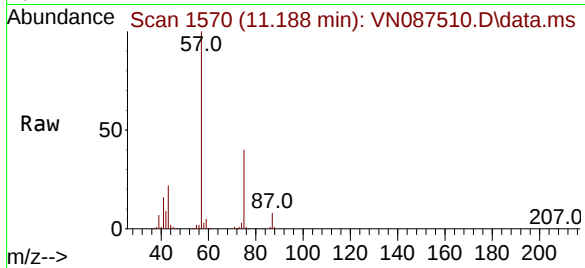




#59
2-Hexanone
Concen: 21.254 ug/l
RT: 11.188 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN087510.D
Acq: 12 Aug 2025 13:41

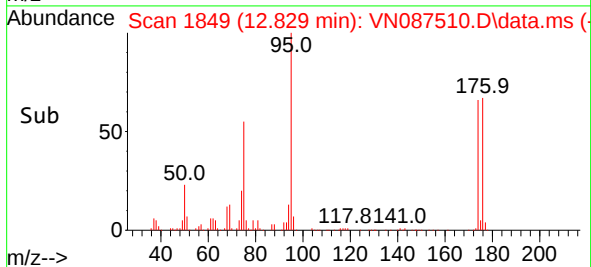
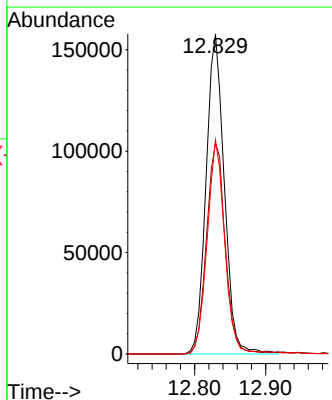
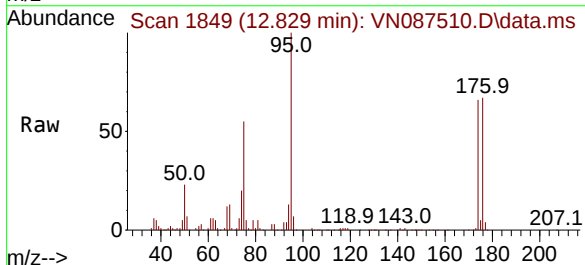
Instrument :
MSVOA_N
ClientSampleId :
VNJ-238

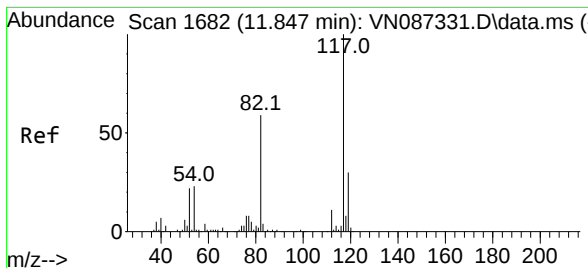
Tgt Ion: 43 Resp: 104836
Ion Ratio Lower Upper
43 100
58 13.7 26.7 80.0#



#62
4-Bromofluorobenzene
Concen: 53.798 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.000 min
Lab File: VN087510.D
Acq: 12 Aug 2025 13:41

Tgt Ion: 95 Resp: 281368
Ion Ratio Lower Upper
95 100
174 67.6 0.0 149.4
176 64.0 0.0 141.2





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.847 min Scan# 1

Delta R.T. 0.000 min

Lab File: VN087510.D

Acq: 12 Aug 2025 13:41

Instrument :

MSVOA_N

ClientSampleId :

VNJ-238

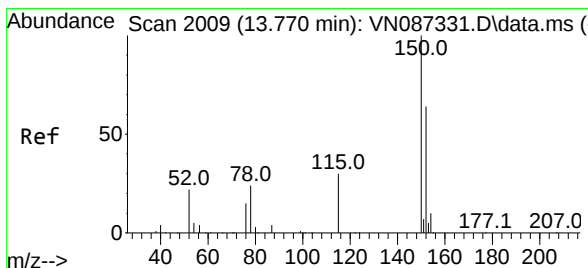
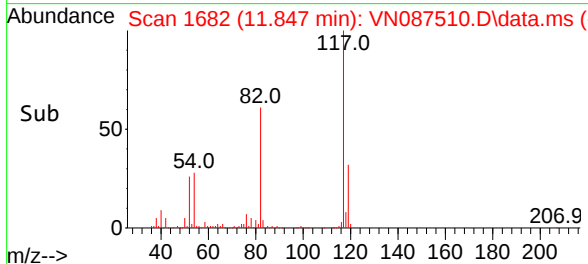
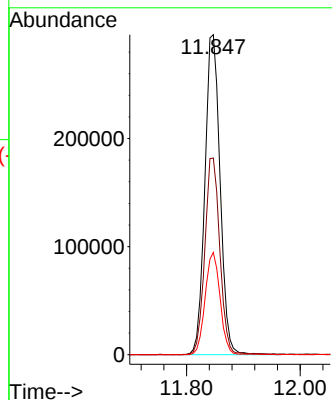
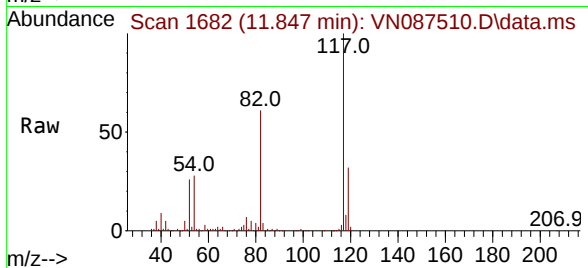
Tgt Ion:117 Resp: 548538

Ion Ratio Lower Upper

117 100

82 61.5 47.4 71.2

119 32.0 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: VN087510.D

Acq: 12 Aug 2025 13:41

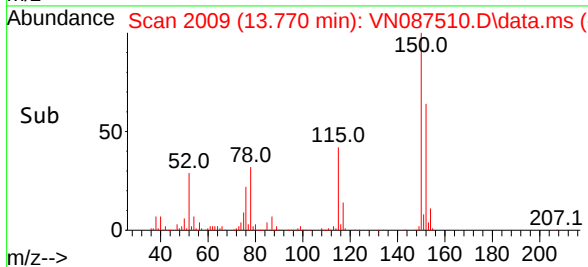
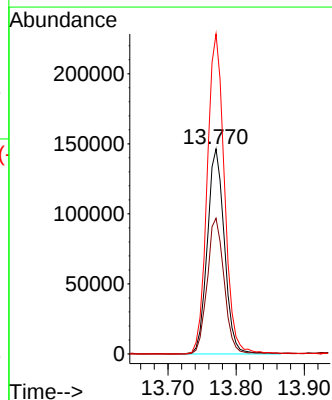
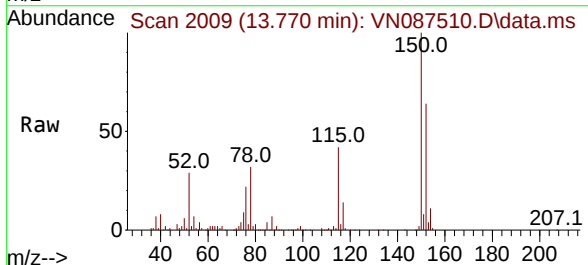
Tgt Ion:152 Resp: 255246

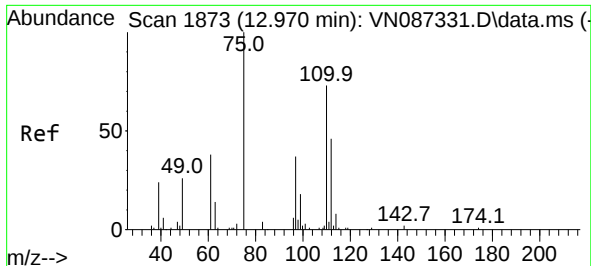
Ion Ratio Lower Upper

152 100

115 65.6 31.1 93.5

150 157.6 0.0 349.0

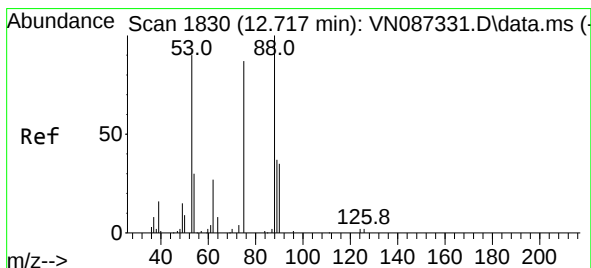
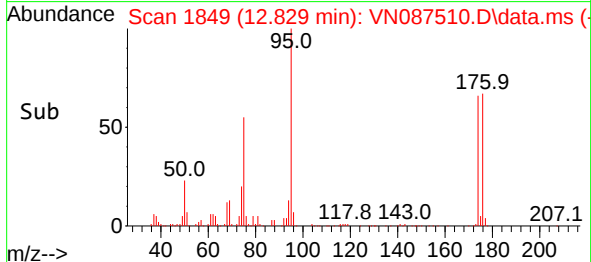
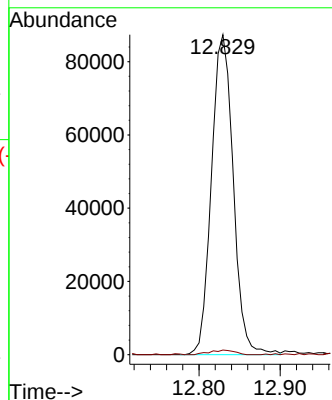
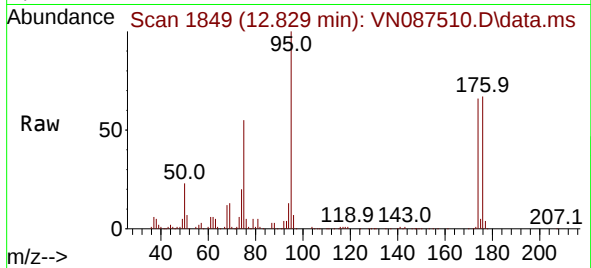




#76
1,2,3-Trichloropropane
Concen: 28.476 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. -0.141 min
Lab File: VN087510.D
Acq: 12 Aug 2025 13:41

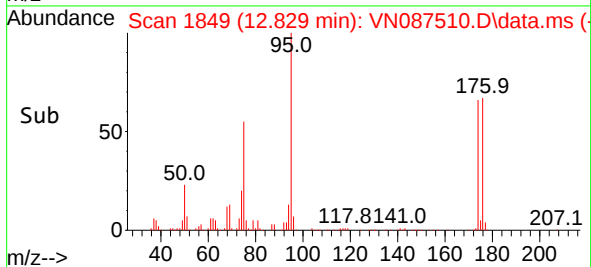
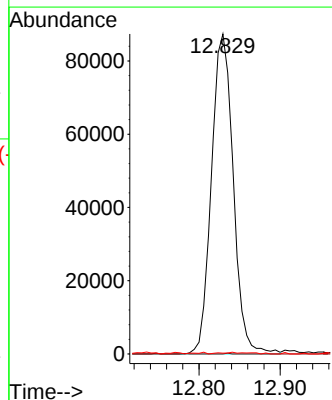
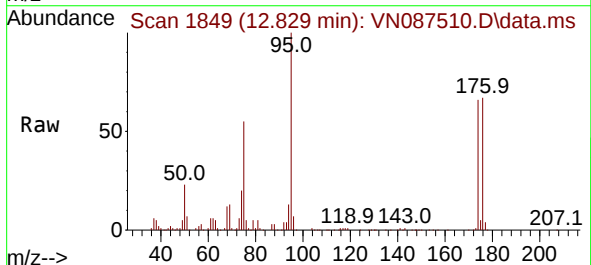
Instrument :
MSVOA_N
ClientSampleId :
VNJ-238

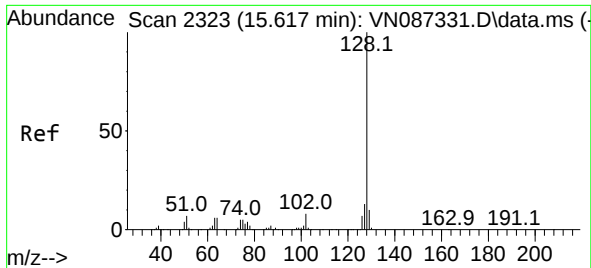
Tgt Ion: 75 Resp: 162986
Ion Ratio Lower Upper
75 100
77 1.6 94.5 283.6#



#81
trans-1,4-Dichloro-2-butene
Concen: 77.914 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.112 min
Lab File: VN087510.D
Acq: 12 Aug 2025 13:41

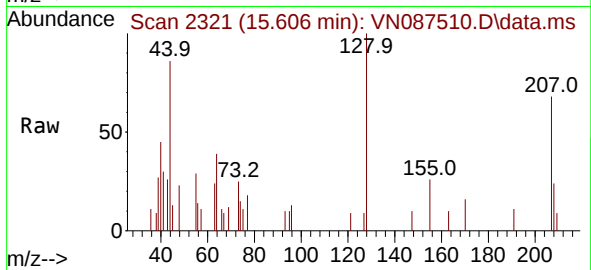
Tgt Ion: 75 Resp: 162986
Ion Ratio Lower Upper
75 100
53 0.0 83.5 125.3#
89 0.5 38.4 57.6#





#95
Naphthalene
Concen: 0.264 ug/l
RT: 15.606 min Scan# 21
Delta R.T. -0.012 min
Lab File: VN087510.D
Acq: 12 Aug 2025 13:41

Instrument :
MSVOA_N
ClientSampleId :
VNJ-238



Tgt Ion:	128	Resp:	4255
Ion	Ratio	Lower	Upper
128	100		
127	11.9	10.5	15.7
129	8.8	8.4	12.6

