

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN062025\
 Data File : VN087123.D
 Acq On : 20 Jun 2025 09:25
 Operator : JC\MD
 Sample : VN0620MBL01
 Misc : 5.00g/10mL/100uL/5.00mL/MSVOA_N/MEOH
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0620MBL01

Quant Time: Jun 20 22:59:18 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 07 02:12:50 2025
 Response via : Initial Calibration

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

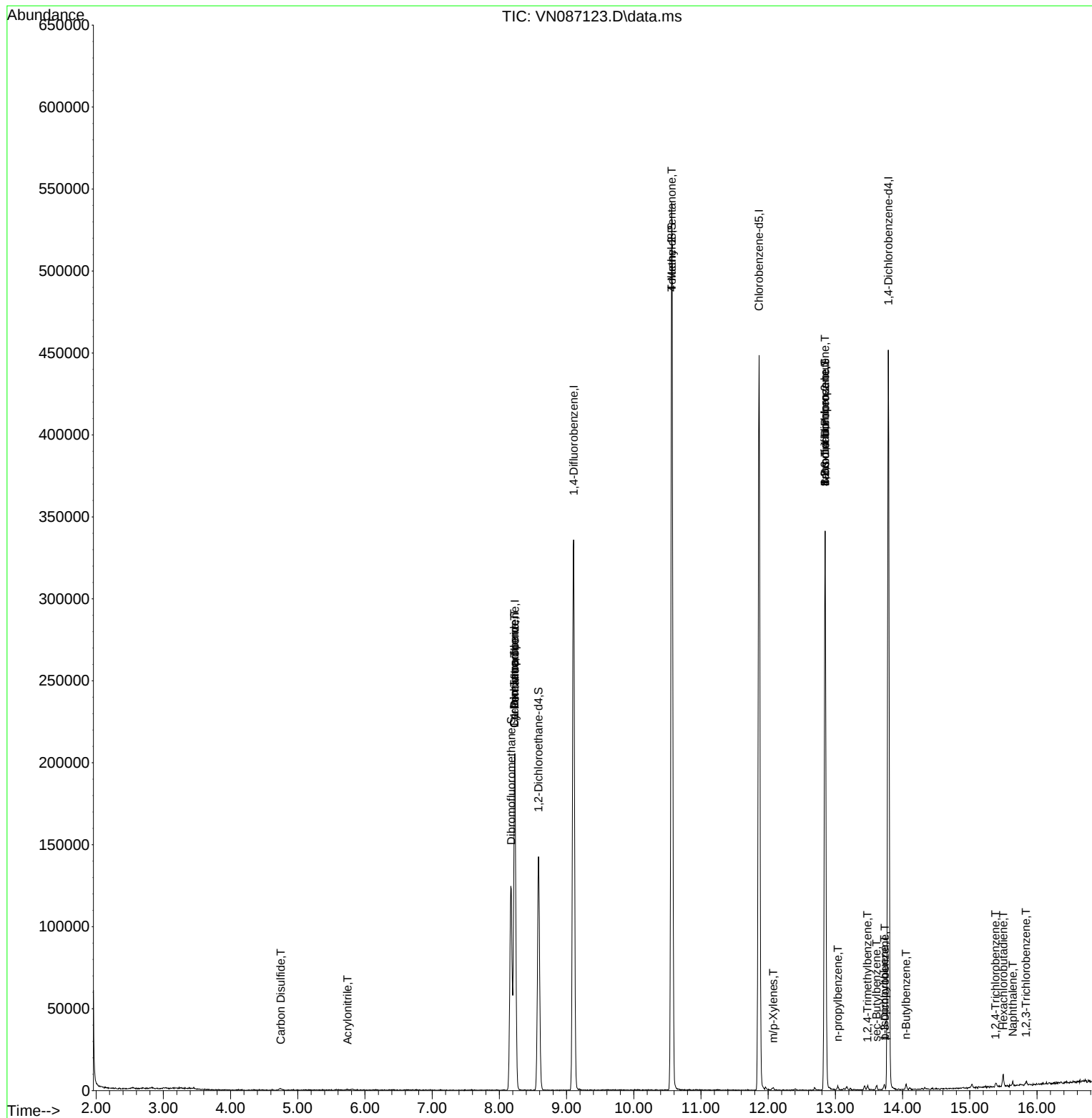
Internal Standards						
1) Pentafluorobenzene	8.230	168	161603	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	319855	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	284735	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	131966	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.582	65	113749	52.572	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	= 105.140%	
35) Dibromofluoromethane	8.177	113	97796	51.593	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 103.180%	
50) Toluene-d8	10.565	98	396963	52.901	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	= 105.800%	
62) 4-Bromofluorobenzene	12.847	95	133565	47.908	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	= 95.820%	
Target Compounds						
					Qvalue	
15) Acrylonitrile	5.741	53	538	0.392	ug/l #	44
17) Carbon Disulfide	4.747	76	2378	0.478	ug/l #	75
31) Cyclohexane	8.224	56	3259	0.929	ug/l #	1
36) 1,1-Dichloropropene	8.224	75	11866	4.201	ug/l #	48
38) Carbon Tetrachloride	8.224	117	15967	5.758	ug/l #	16
51) 4-Methyl-2-Pentanone	10.565	43	1359	0.391	ug/l #	1
68) m/p-Xylenes	12.076	106	835	0.202	ug/l	89
71) Bromoform	12.847	173	658	0.440	ug/l #	1
76) 1,2,3-Trichloropropane	12.847	75	60355	19.240	ug/l #	1
78) n-propylbenzene	13.035	91	2371	0.203	ug/l	94
81) trans-1,4-Dichloro-2-b...	12.847	75	60355	44.291	ug/l #	16
84) 1,2,4-Trimethylbenzene	13.476	105	1864	0.234	ug/l	98
85) sec-Butylbenzene	13.612	105	2406	0.228	ug/l	90
86) p-Isopropyltoluene	13.729	119	1882	0.216	ug/l	97
87) 1,3-Dichlorobenzene	13.735	146	876	0.202	ug/l	82
89) n-Butylbenzene	14.053	91	2115	0.250	ug/l	94
93) 1,2,4-Trichlorobenzene	15.382	180	1049	0.394	ug/l	80
94) Hexachlorobutadiene	15.500	225	1609	1.623	ug/l	91
95) Naphthalene	15.641	128	3050	0.308	ug/l #	77
96) 1,2,3-Trichlorobenzene	15.835	180	1149	0.435	ug/l #	85

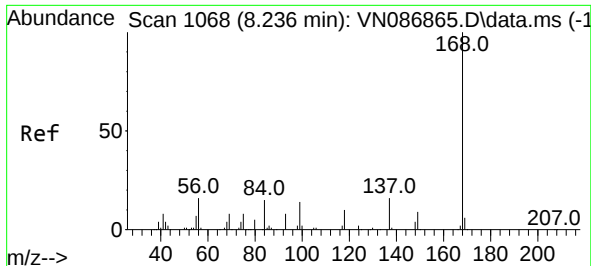
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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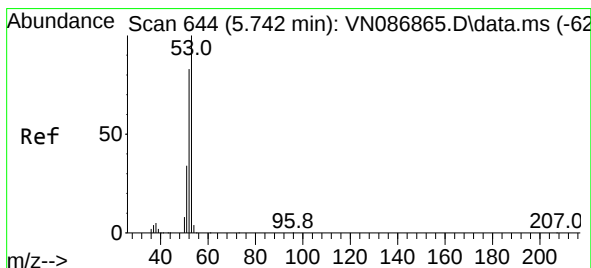
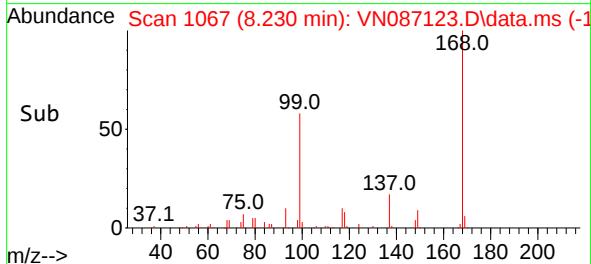
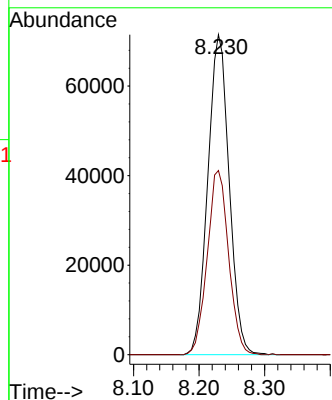
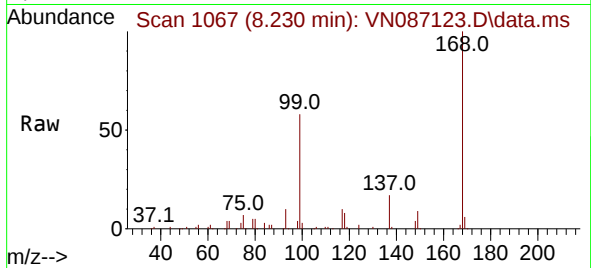




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.230 min Scan# 1068
Delta R.T. -0.006 min
Lab File: VN087123.D
Acq: 20 Jun 2025 09:25

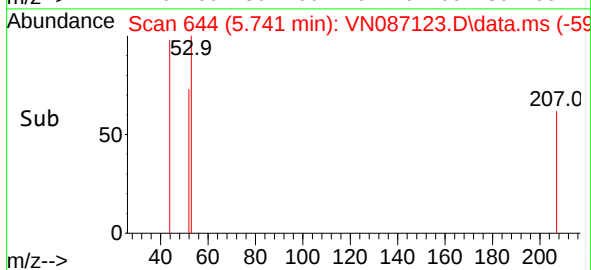
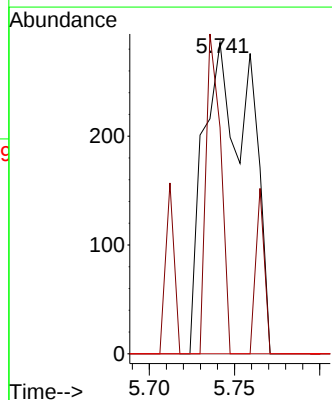
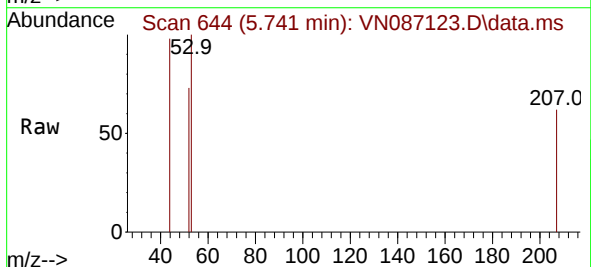
Instrument :
MSVOA_N
ClientSampleId :
VN0620MBL01

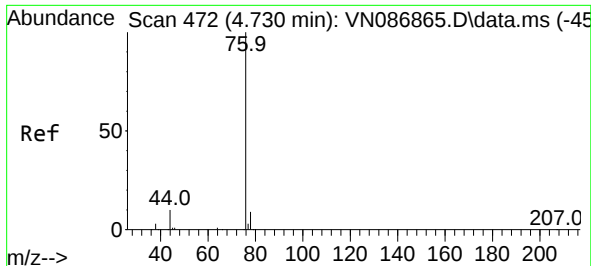
Tgt Ion:168 Resp: 161603
Ion Ratio Lower Upper
168 100
99 57.6 49.1 73.7



#15
Acrylonitrile
Concen: 0.392 ug/l
RT: 5.741 min Scan# 644
Delta R.T. -0.000 min
Lab File: VN087123.D
Acq: 20 Jun 2025 09:25

Tgt Ion: 53 Resp: 538
Ion Ratio Lower Upper
53 100
52 32.9 65.0 97.6#
51 0.0 27.2 40.8#

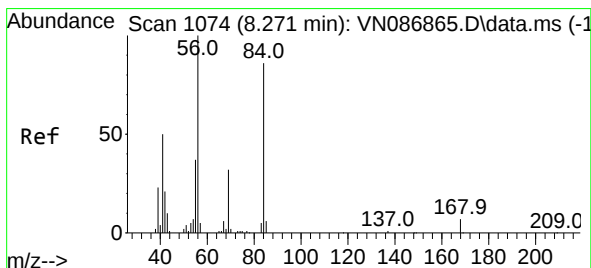
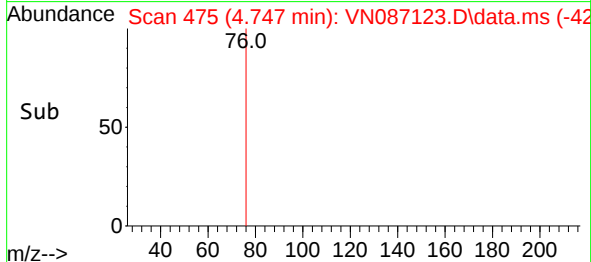
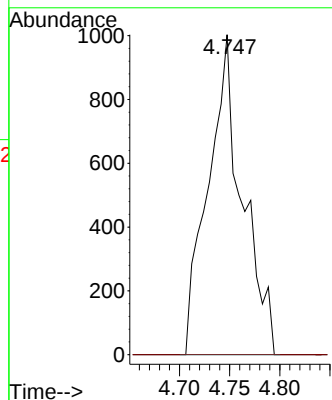
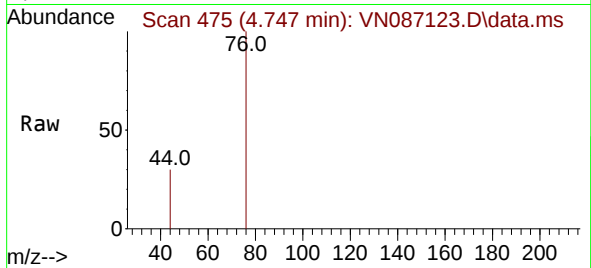




#17
Carbon Disulfide
Concen: 0.478 ug/l
RT: 4.747 min Scan# 41
Delta R.T. 0.017 min
Lab File: VN087123.D
Acq: 20 Jun 2025 09:25

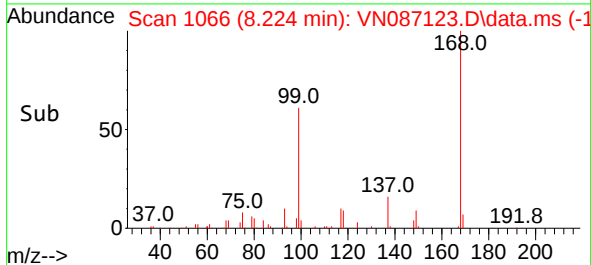
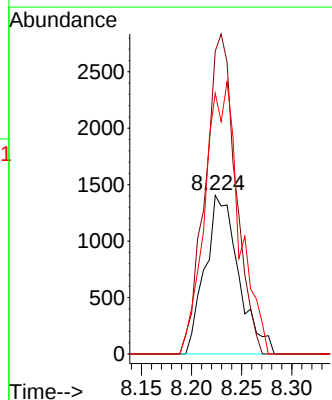
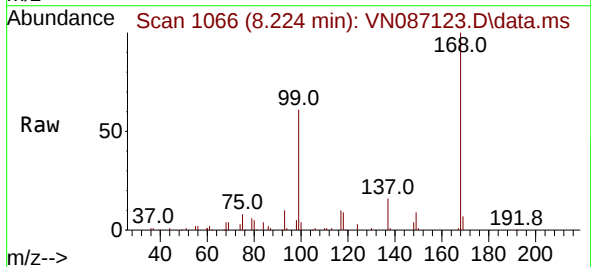
Instrument :
MSVOA_N
ClientSampleId :
VN0620MBL01

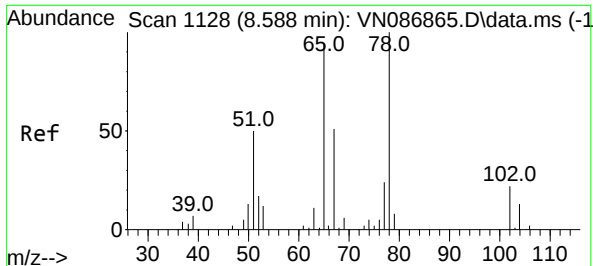
Tgt Ion: 76 Resp: 2378
Ion Ratio Lower Upper
76 100
78 0.0 7.3 10.9#



#31
Cyclohexane
Concen: 0.929 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.047 min
Lab File: VN087123.D
Acq: 20 Jun 2025 09:25

Tgt Ion: 56 Resp: 3259
Ion Ratio Lower Upper
56 100
69 190.9 25.4 38.0#
84 164.3 68.8 103.2#





#33

1,2-Dichloroethane-d4

Concen: 52.572 ug/l

RT: 8.582 min Scan# 1128

Delta R.T. -0.006 min

Lab File: VN087123.D

Acq: 20 Jun 2025 09:25

Instrument :

MSVOA_N

ClientSampleId :

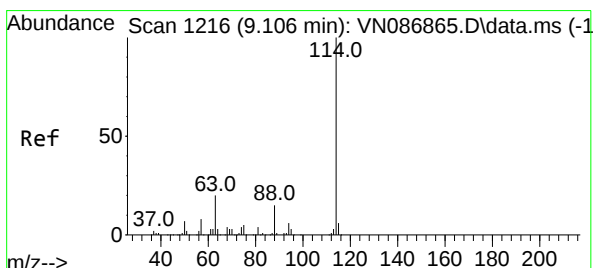
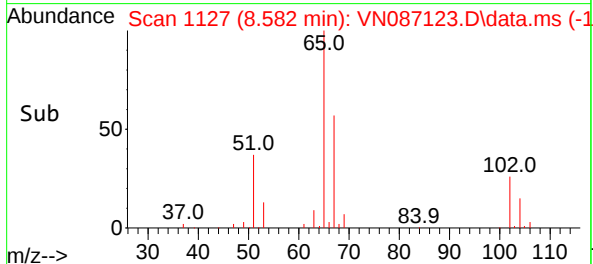
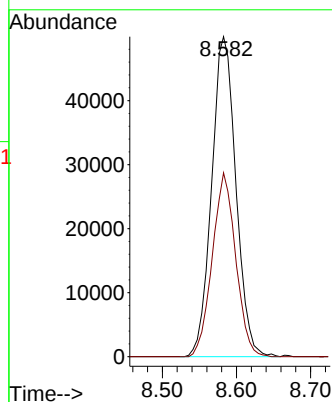
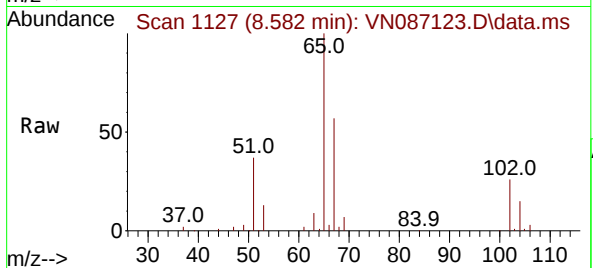
VN0620MBL01

Tgt Ion: 65 Resp: 113749

Ion Ratio Lower Upper

65 100

67 55.5 0.0 105.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 1216

Delta R.T. -0.000 min

Lab File: VN087123.D

Acq: 20 Jun 2025 09:25

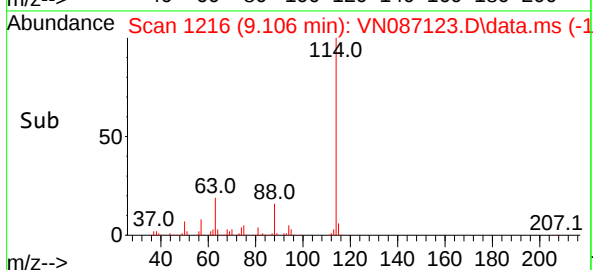
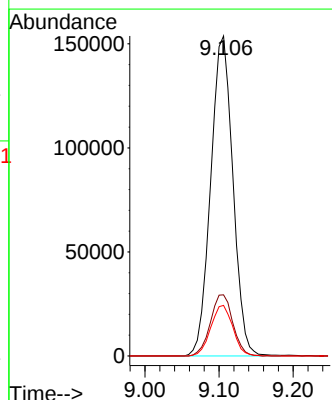
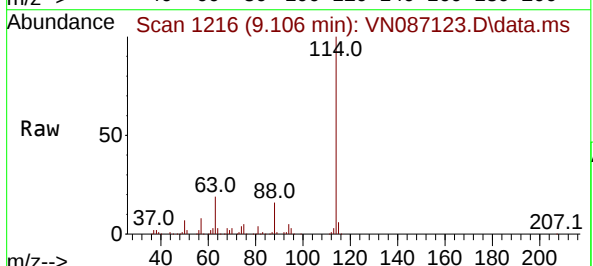
Tgt Ion: 114 Resp: 319855

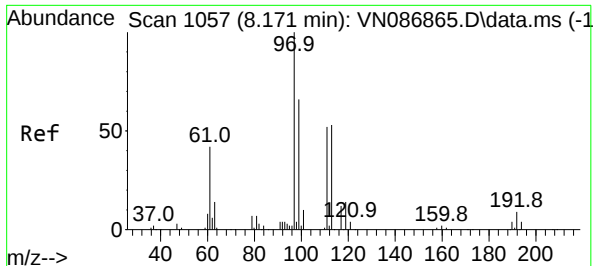
Ion Ratio Lower Upper

114 100

63 19.1 0.0 39.6

88 15.8 0.0 30.2





#35

Dibromofluoromethane

Concen: 51.593 ug/l

RT: 8.177 min Scan# 1

Delta R.T. 0.006 min

Lab File: VN087123.D

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Instrument :

MSVOA_N

ClientSampleId :

VN0620MBL01

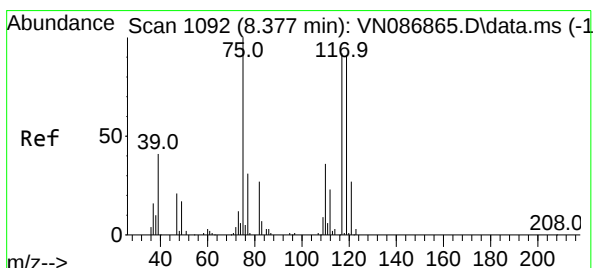
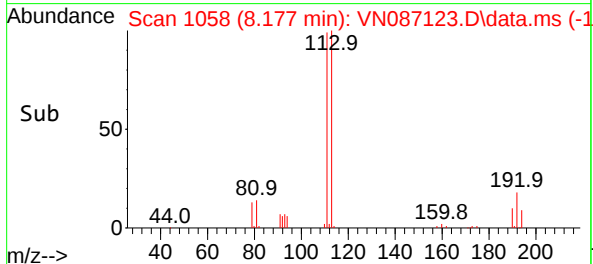
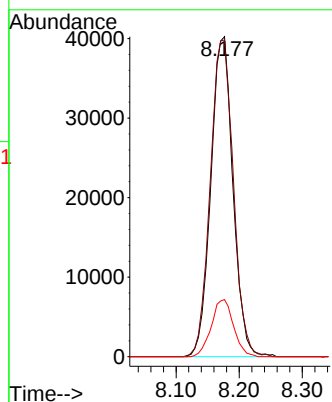
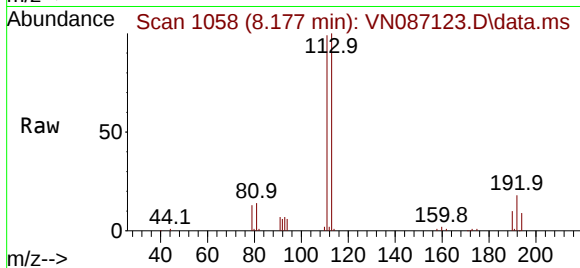
Tgt Ion:113 Resp: 97796

Ion Ratio Lower Upper

113 100

111 103.3 84.2 126.2

192 18.0 14.2 21.4



#36

1,1-Dichloropropene

Concen: 4.201 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.153 min

Lab File: VN087123.D

Acq: 20 Jun 2025 09:25

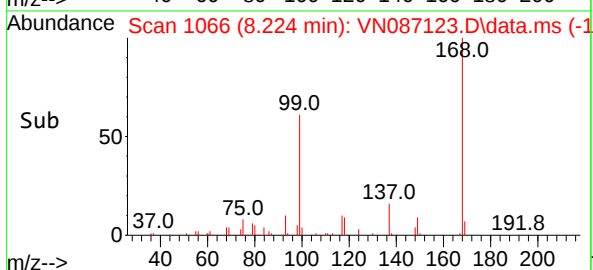
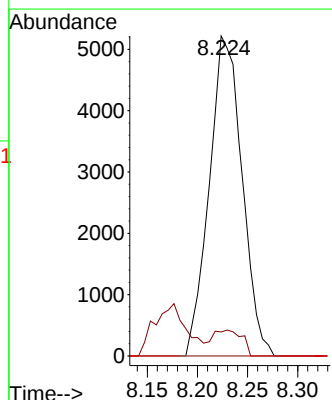
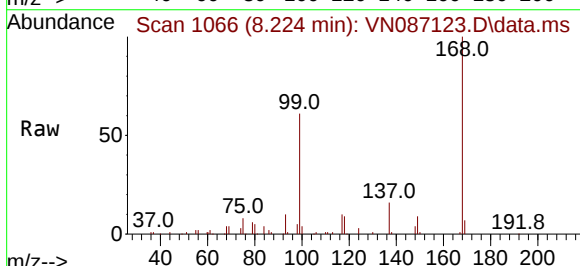
Tgt Ion: 75 Resp: 11866

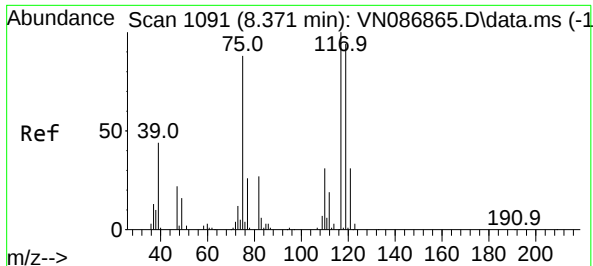
Ion Ratio Lower Upper

75 100

110 7.4 17.6 52.9#

77 0.0 25.3 37.9#

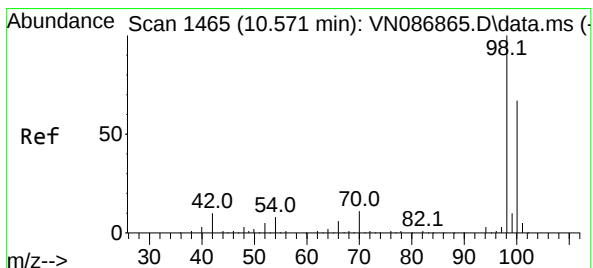
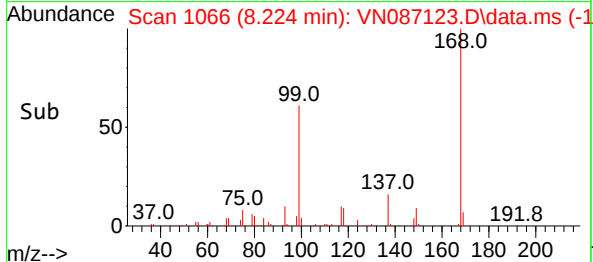
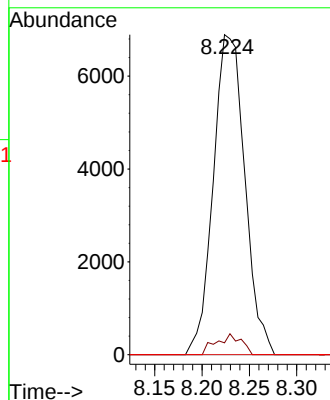
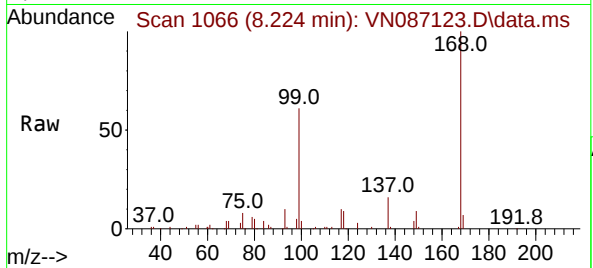




#38
Carbon Tetrachloride
Concen: 5.758 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.147 min
Lab File: VN087123.D
Acq: 20 Jun 2025 09:25

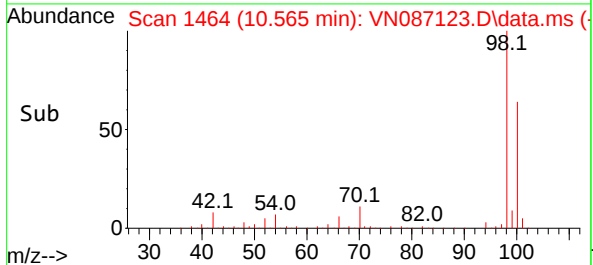
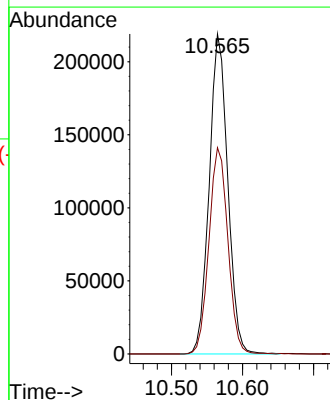
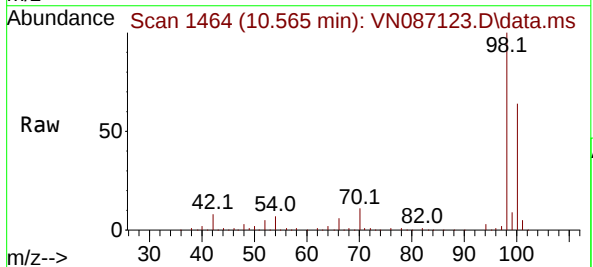
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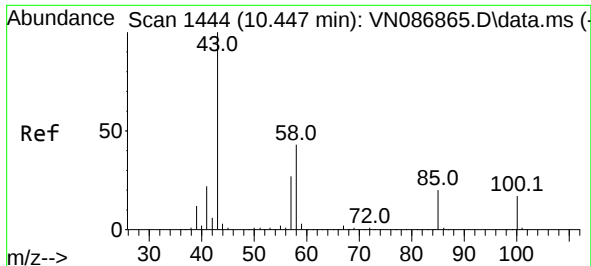
Tgt Ion:117 Resp: 15967
Ion Ratio Lower Upper
117 100
119 3.7 75.0 112.6#
121 0.0 24.9 37.3#



#50
Toluene-d8
Concen: 52.901 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.006 min
Lab File: VN087123.D
Acq: 20 Jun 2025 09:25

Tgt Ion: 98 Resp: 396963
Ion Ratio Lower Upper
98 100
100 65.8 53.4 80.0

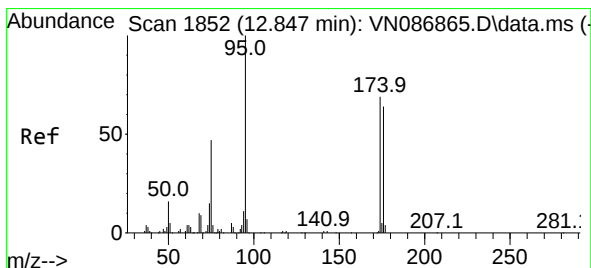
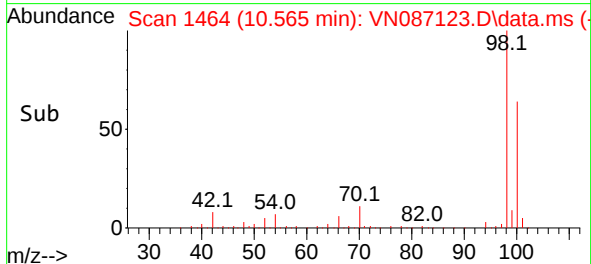
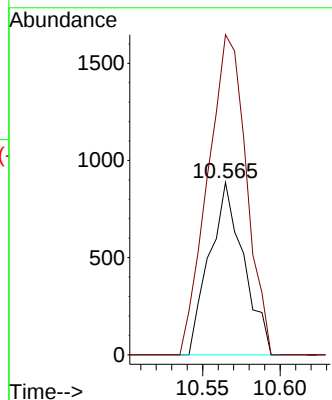
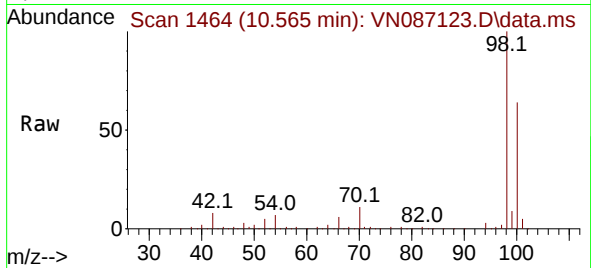




#51
4-Methyl-2-Pentanone
Concen: 0.391 ug/l
RT: 10.565 min Scan# 1444
Delta R.T. 0.117 min
Lab File: VN087123.D
Acq: 20 Jun 2025 09:25

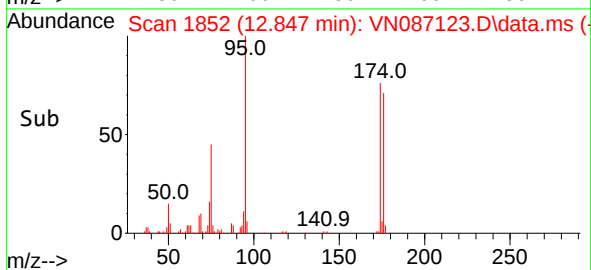
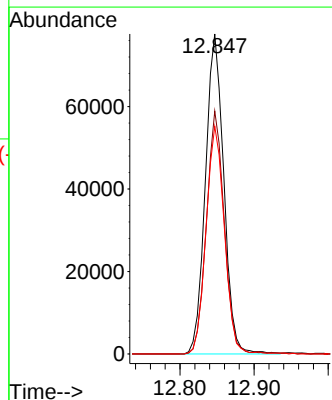
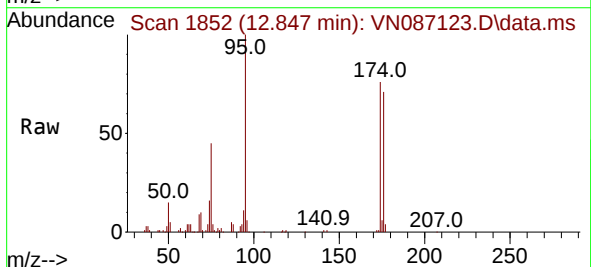
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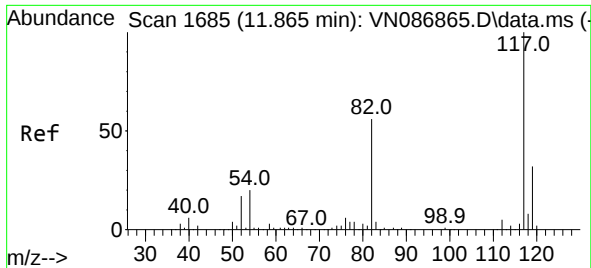
Tgt Ion: 43 Resp: 1359
Ion Ratio Lower Upper
43 100
58 209.7 34.2 51.4#



#62
4-Bromofluorobenzene
Concen: 47.908 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN087123.D
Acq: 20 Jun 2025 09:25

Tgt Ion: 95 Resp: 133565
Ion Ratio Lower Upper
95 100
174 73.8 0.0 141.8
176 71.0 0.0 132.6

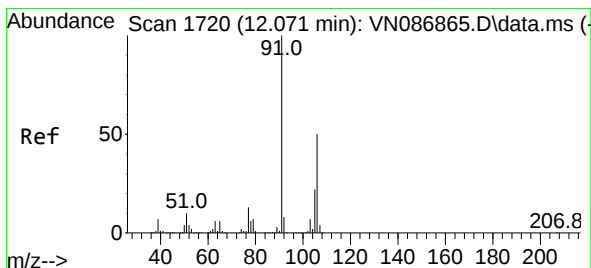
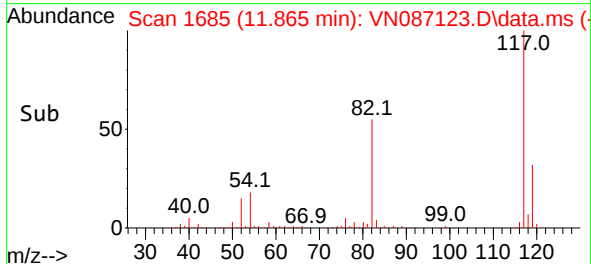
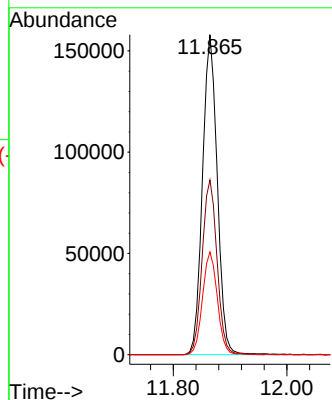
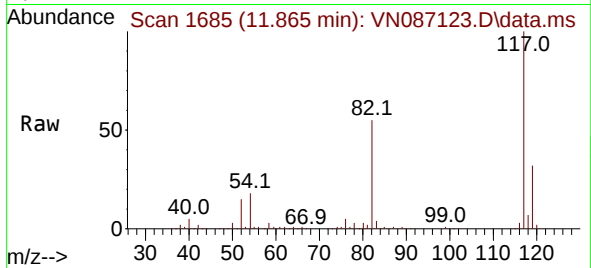




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 117
Delta R.T. -0.000 min
Lab File: VN087123.D
Acq: 20 Jun 2025 09:25

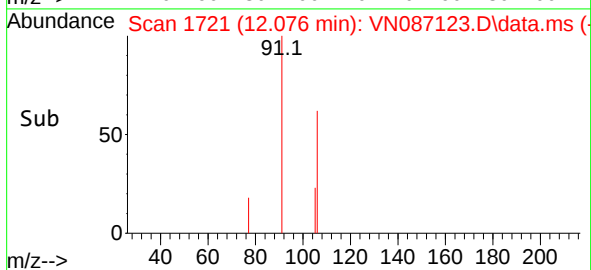
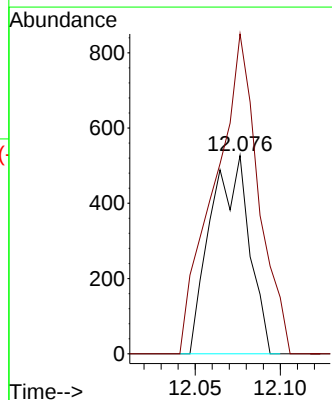
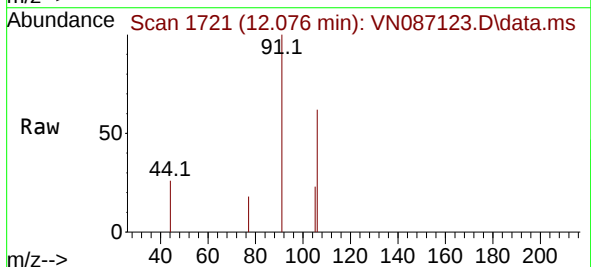
Instrument :
MSVOA_N
ClientSampleId :
VN0620MBL01

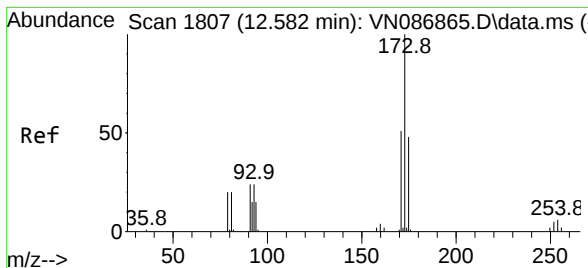
Tgt Ion:117 Resp: 284735
Ion Ratio Lower Upper
117 100
82 54.6 44.6 67.0
119 32.1 25.5 38.3



#68
m/p-Xylenes
Concen: 0.202 ug/l
RT: 12.076 min Scan# 1721
Delta R.T. 0.006 min
Lab File: VN087123.D
Acq: 20 Jun 2025 09:25

Tgt Ion:106 Resp: 835
Ion Ratio Lower Upper
106 100
91 182.4 159.4 239.0





#71

Bromoform

Concen: 0.440 ug/l

RT: 12.847 min Scan# 11

Delta R.T. 0.265 min

Lab File: VN087123.D

Acq: 20 Jun 2025 09:25

Instrument :

MSVOA_N

ClientSampleId :

VN0620MBL01

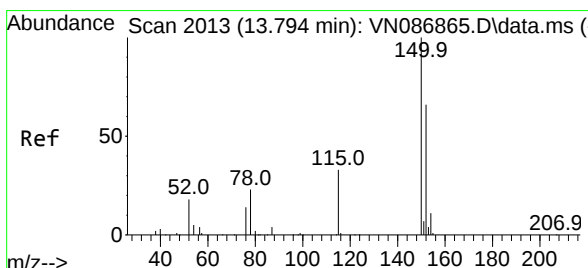
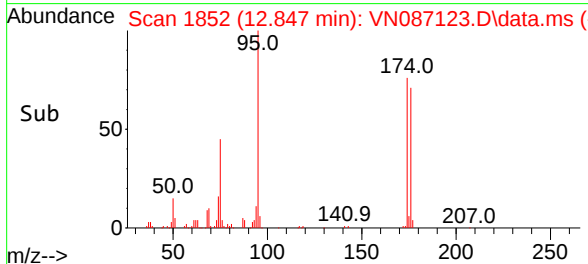
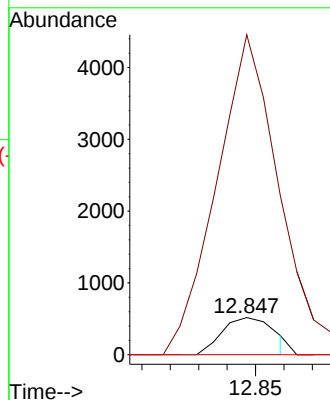
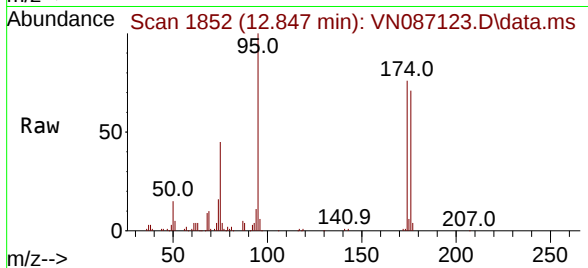
Tgt Ion:173 Resp: 658

Ion Ratio Lower Upper

173 100

175 928.3 24.1 72.4#

254 0.0 0.0 0.0



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.788 min Scan# 2012

Delta R.T. -0.006 min

Lab File: VN087123.D

Acq: 20 Jun 2025 09:25

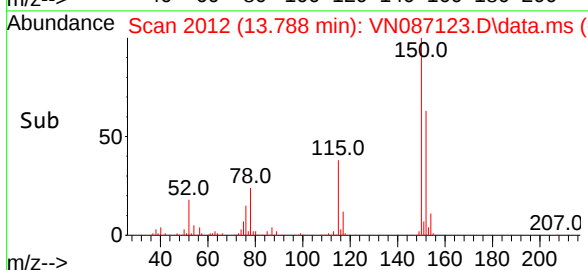
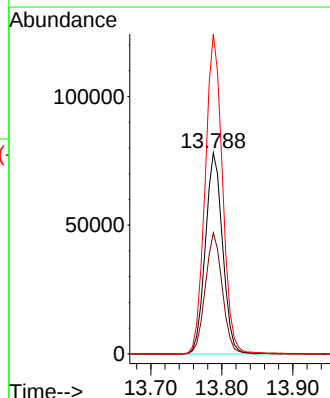
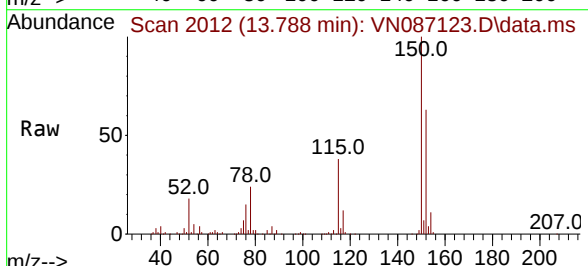
Tgt Ion:152 Resp: 131966

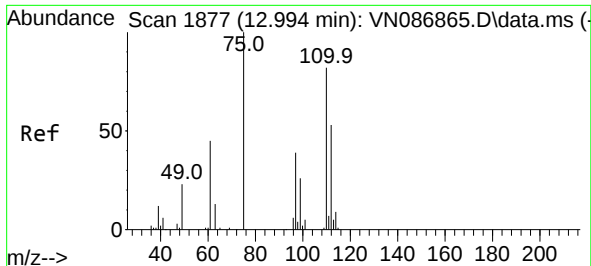
Ion Ratio Lower Upper

152 100

115 59.3 30.1 90.5

150 159.5 0.0 345.0

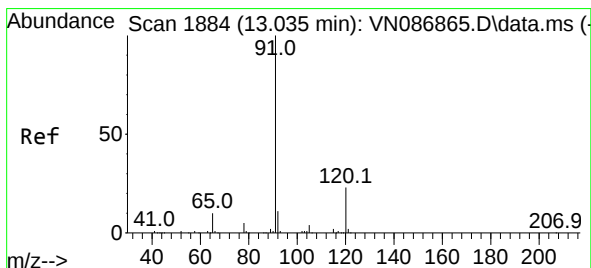
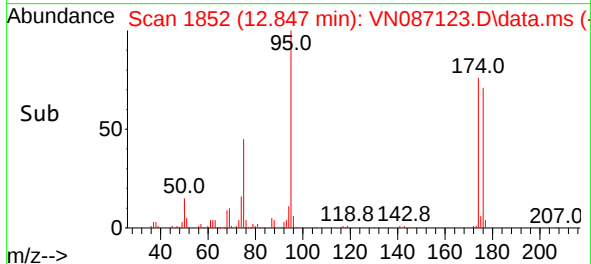
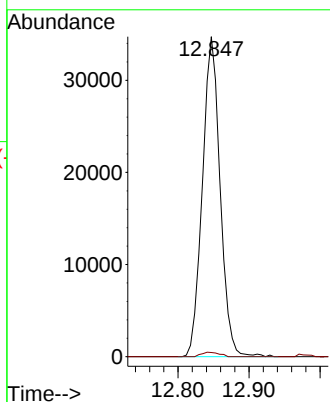
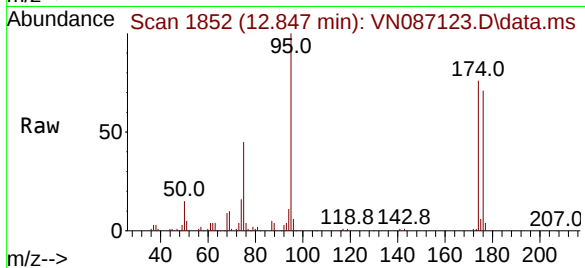




#76
1,2,3-Trichloropropane
Concen: 19.240 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.147 min
Lab File: VN087123.D
Acq: 20 Jun 2025 09:25

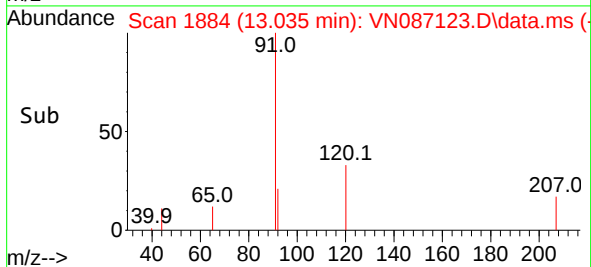
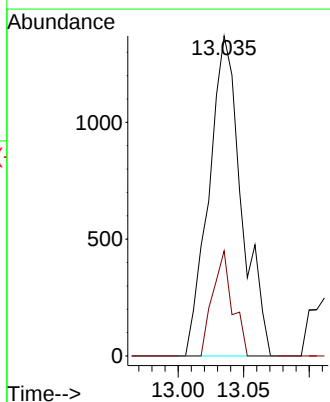
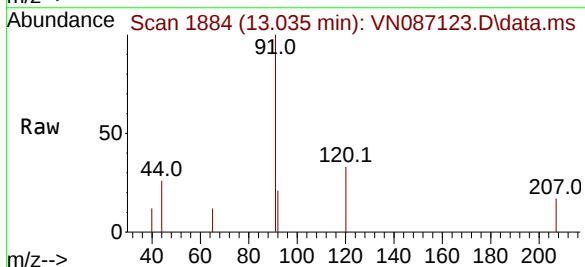
Instrument :
MSVOA_N
ClientSampleId :
VN0620MBL01

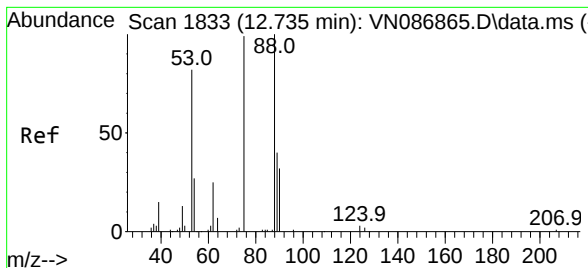
Tgt Ion: 75 Resp: 60355
Ion Ratio Lower Upper
75 100
77 1.4 79.3 237.9#



#78
n-propylbenzene
Concen: 0.203 ug/l
RT: 13.035 min Scan# 1884
Delta R.T. -0.000 min
Lab File: VN087123.D
Acq: 20 Jun 2025 09:25

Tgt Ion: 91 Resp: 2371
Ion Ratio Lower Upper
91 100
120 20.0 11.4 34.2

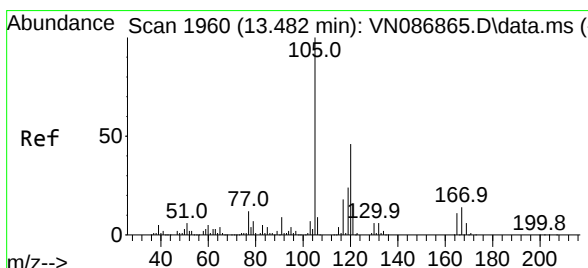
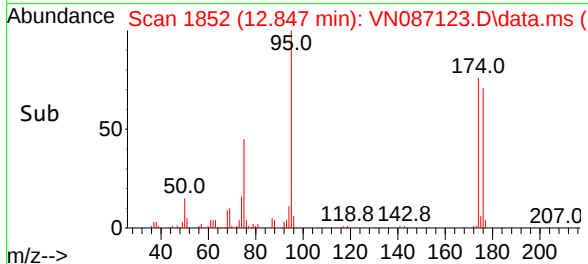
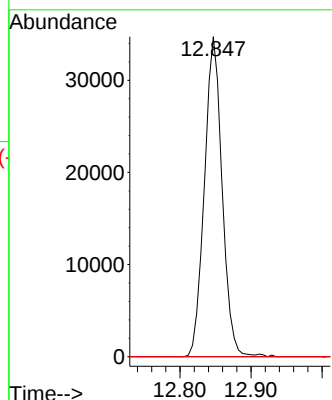
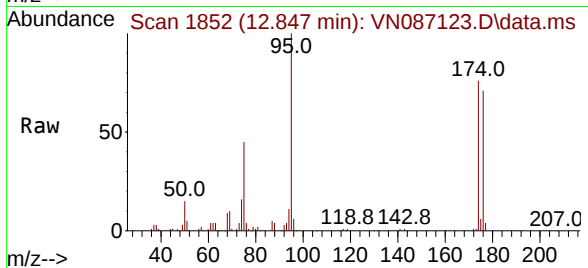




#81
trans-1,4-Dichloro-2-butene
Concen: 44.291 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.112 min
Lab File: VN087123.D
Acq: 20 Jun 2025 09:25

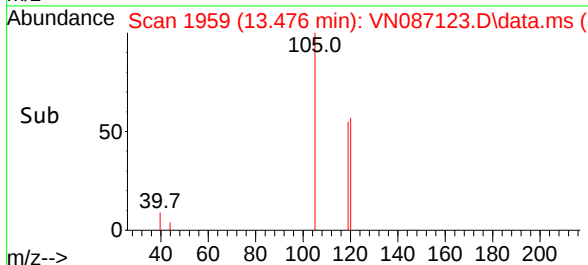
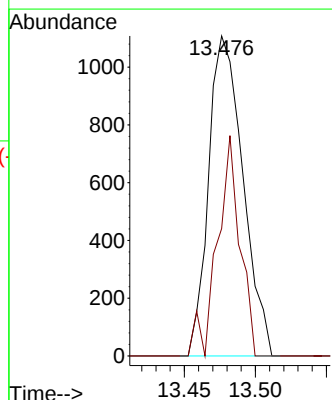
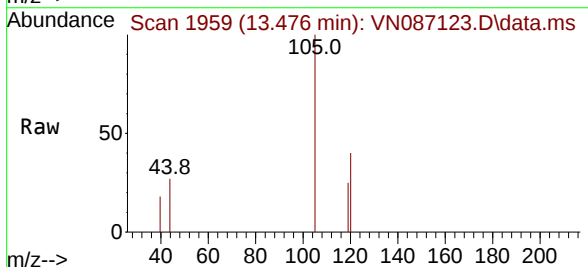
Instrument :
MSVOA_N
ClientSampleId :
VN0620MBL01

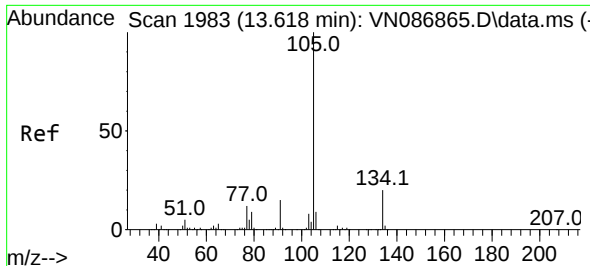
Tgt Ion: 75 Resp: 60355
Ion Ratio Lower Upper
75 100
53 0.0 66.6 99.8#
89 0.0 36.7 55.1#



#84
1,2,4-Trimethylbenzene
Concen: 0.234 ug/l
RT: 13.476 min Scan# 1959
Delta R.T. -0.006 min
Lab File: VN087123.D
Acq: 20 Jun 2025 09:25

Tgt Ion: 105 Resp: 1864
Ion Ratio Lower Upper
105 100
120 45.2 23.2 69.6

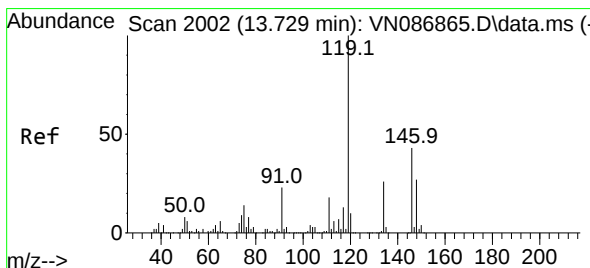
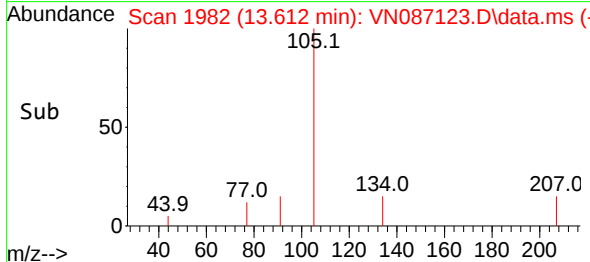
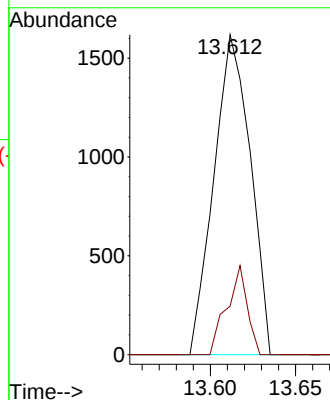
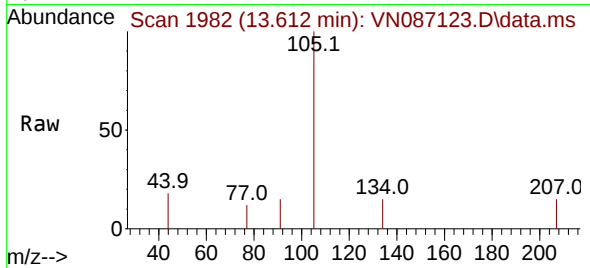




#85
 sec-Butylbenzene
 Concen: 0.228 ug/l
 RT: 13.612 min Scan# 1983
 Delta R.T. -0.006 min
 Lab File: VN087123.D
 Acq: 20 Jun 2025 09:25

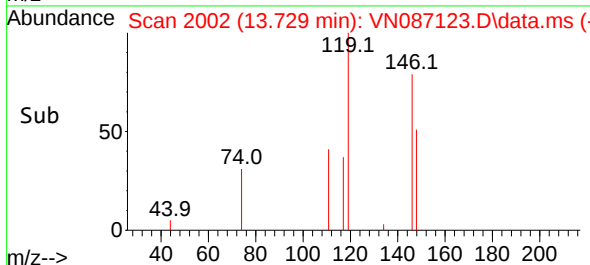
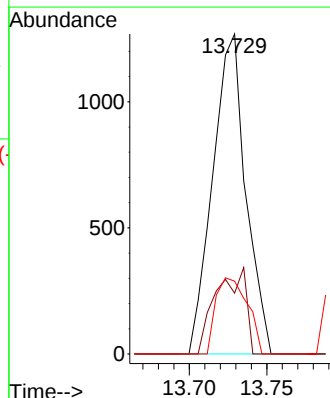
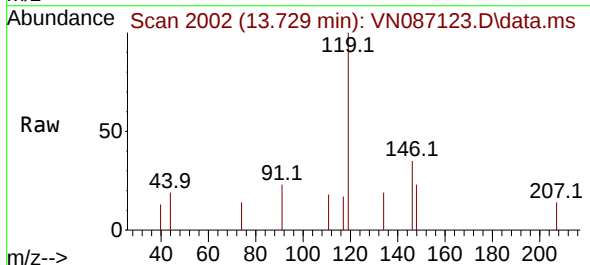
Instrument :
 MSVOA_N
 ClientSampleId :
 VN0620MBL01

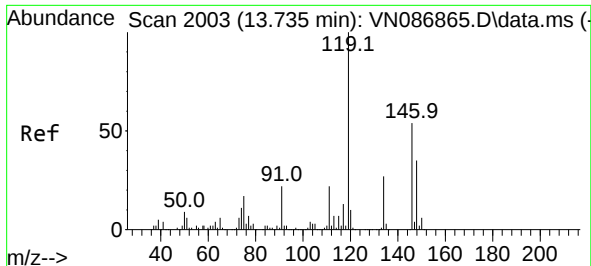
Tgt Ion:105 Resp: 2406
 Ion Ratio Lower Upper
 105 100
 134 15.6 10.0 30.0



#86
 p-Isopropyltoluene
 Concen: 0.216 ug/l
 RT: 13.729 min Scan# 2002
 Delta R.T. -0.000 min
 Lab File: VN087123.D
 Acq: 20 Jun 2025 09:25

Tgt Ion:119 Resp: 1882
 Ion Ratio Lower Upper
 119 100
 134 24.3 13.5 40.4
 91 22.7 11.5 34.4

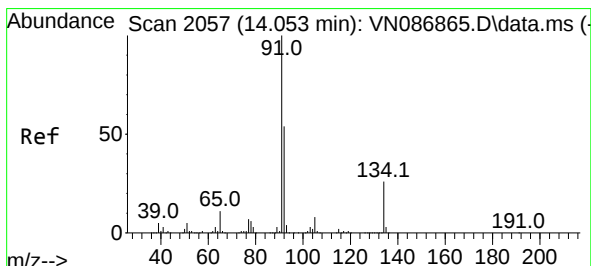
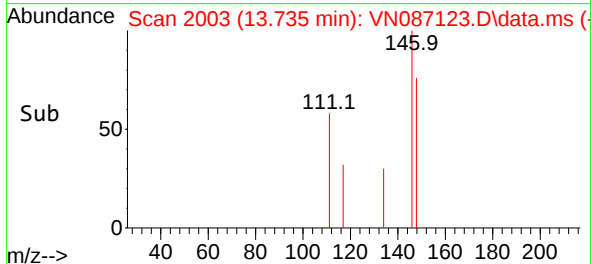
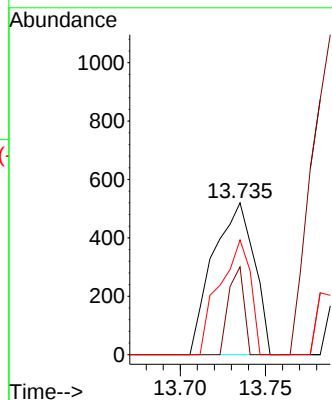
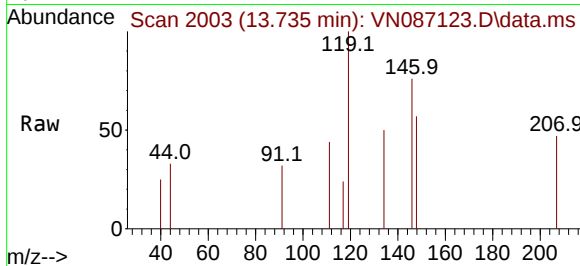




#87
1,3-Dichlorobenzene
Concen: 0.202 ug/l
RT: 13.735 min Scan# 2003
Delta R.T. -0.000 min
Lab File: VN087123.D
Acq: 20 Jun 2025 09:25

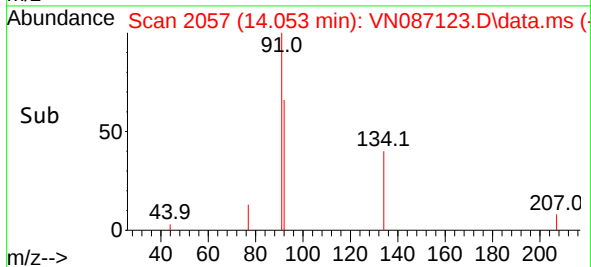
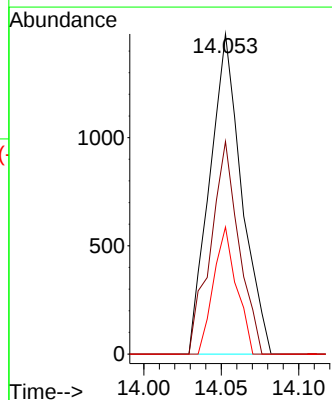
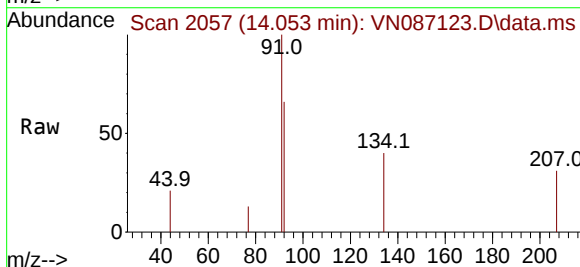
Instrument :
MSVOA_N
ClientSampleId :
VN0620MBL01

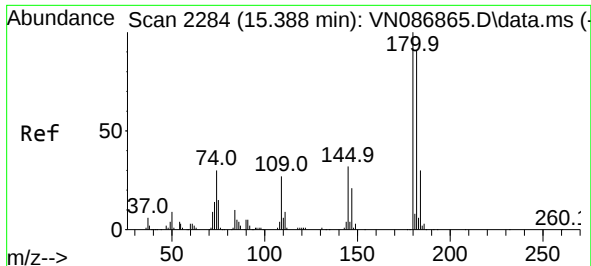
Tgt Ion:146 Resp: 876
Ion Ratio Lower Upper
146 100
111 21.6 20.9 62.8
148 57.0 32.0 96.2



#89
n-Butylbenzene
Concen: 0.250 ug/l
RT: 14.053 min Scan# 2057
Delta R.T. -0.000 min
Lab File: VN087123.D
Acq: 20 Jun 2025 09:25

Tgt Ion: 91 Resp: 2115
Ion Ratio Lower Upper
91 100
92 59.1 27.5 82.4
134 28.5 13.0 39.0

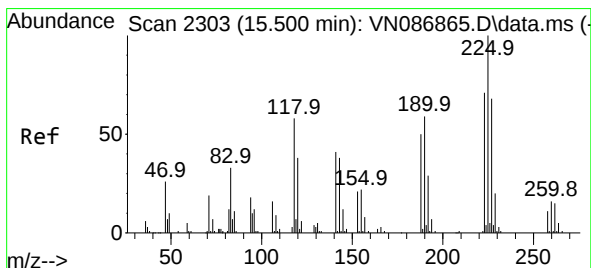
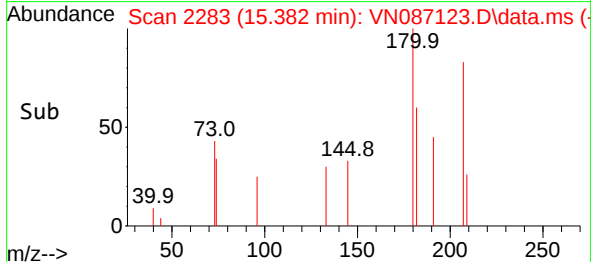
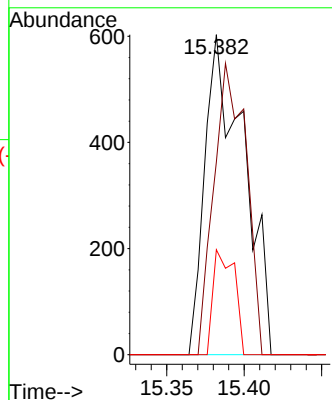
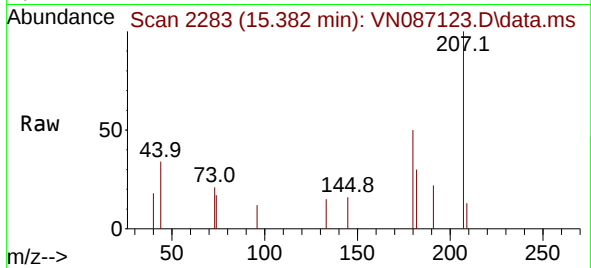




#93
1,2,4-Trichlorobenzene
Concen: 0.394 ug/l
RT: 15.382 min Scan# 21
Delta R.T. -0.006 min
Lab File: VN087123.D
Acq: 20 Jun 2025 09:25

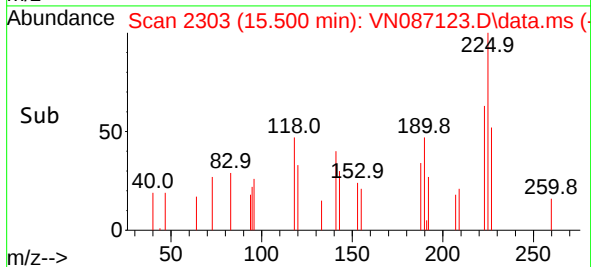
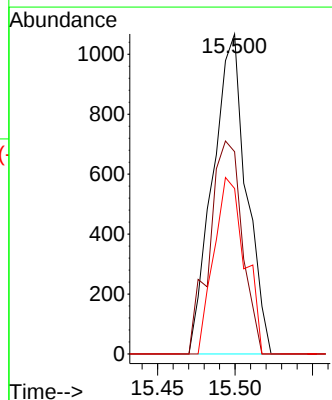
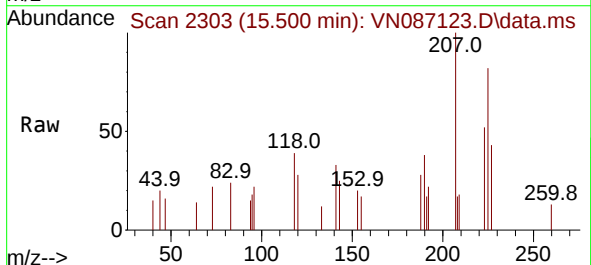
Instrument :
MSVOA_N
ClientSampleId :
VN0620MBL01

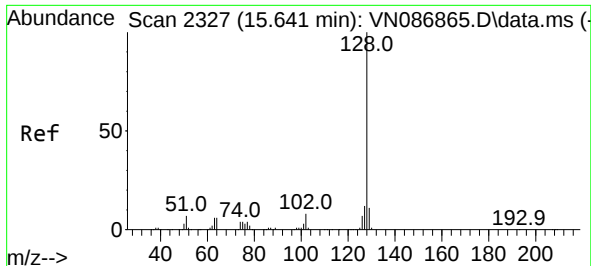
Tgt Ion:180 Resp: 1049
Ion Ratio Lower Upper
180 100
182 75.6 46.9 140.7
145 18.0 16.0 47.9



#94
Hexachlorobutadiene
Concen: 1.623 ug/l
RT: 15.500 min Scan# 2303
Delta R.T. -0.000 min
Lab File: VN087123.D
Acq: 20 Jun 2025 09:25

Tgt Ion:225 Resp: 1609
Ion Ratio Lower Upper
225 100
223 64.7 33.5 100.4
227 50.8 31.1 93.5

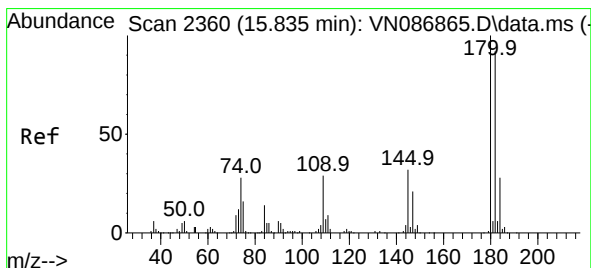
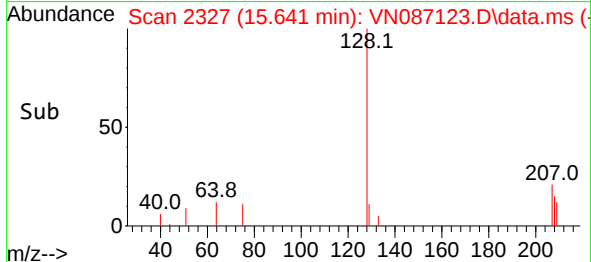
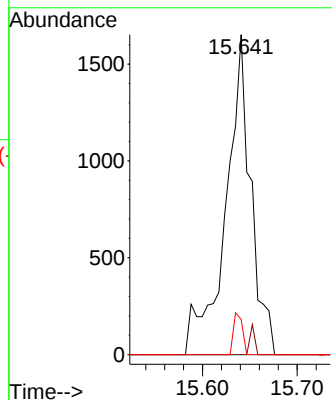
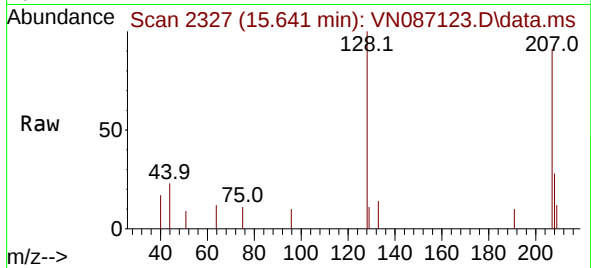




#95
Naphthalene
Concen: 0.308 ug/l
RT: 15.641 min Scan# 21
Delta R.T. -0.000 min
Lab File: VN087123.D
Acq: 20 Jun 2025 09:25

Instrument :
MSVOA_N
ClientSampleId :
VN0620MBL01

Tgt Ion:128 Resp: 3050
Ion Ratio Lower Upper
128 100
127 1.8 10.2 15.2#
129 4.6 8.8 13.2#



#96
1,2,3-Trichlorobenzene
Concen: 0.435 ug/l
RT: 15.835 min Scan# 2360
Delta R.T. -0.000 min
Lab File: VN087123.D
Acq: 20 Jun 2025 09:25

Tgt Ion:180 Resp: 1149
Ion Ratio Lower Upper
180 100
182 86.4 47.0 141.0
145 13.0 16.6 49.8#

