

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN030823\
 Data File : VN076879.D
 Acq On : 08 Mar 2023 12:20
 Operator : JC\MD
 Sample : IBLK
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 IBLK

Quant Time: Mar 09 03:21:18 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N030623W.M
 Quant Title : SW846 8260
 QLast Update : Tue Mar 07 08:45:33 2023
 Response via : Initial Calibration

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

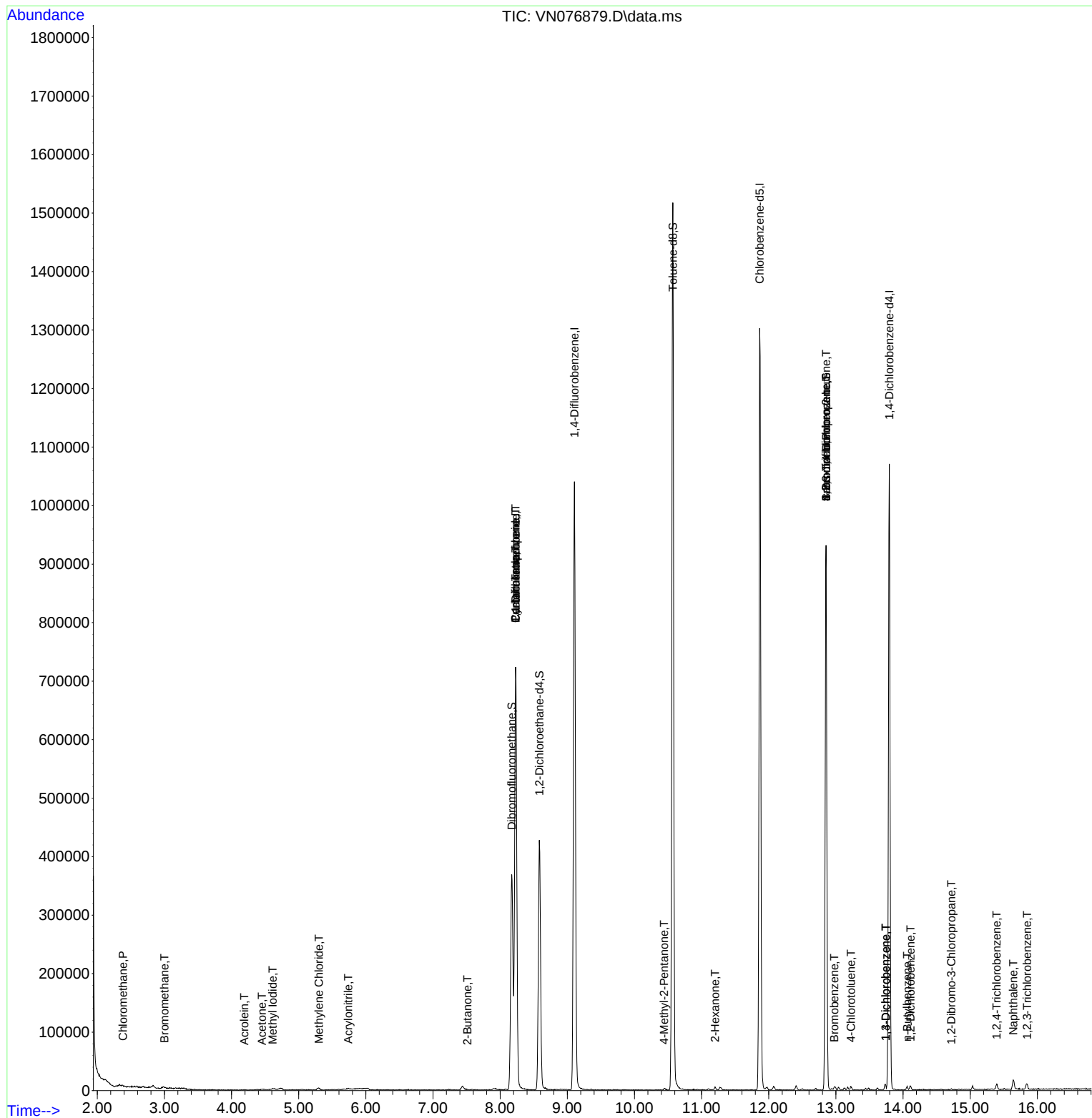
Internal Standards						
1) Pentafluorobenzene	8.230	168	529180	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.107	114	903237	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.866	117	776548	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.795	152	286226	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.583	65	353535	47.651	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	95.300%		
35) Dibromofluoromethane	8.172	113	277716	49.149	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	98.300%		
50) Toluene-d8	10.572	98	1080135	49.617	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	99.240%		
62) 4-Bromofluorobenzene	12.854	95	338245	44.840	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	89.680%		
Target Compounds						Qvalue
3) Chloromethane	2.384	50	1642	0.203	ug/l	99
5) Bromomethane	3.001	94	1586	0.325	ug/l	93
6) Chloroethane	3.137	64	120	Below Cal	#	42
10) Methyl Iodide	4.613	142	2285	0.346	ug/l #	90
13) Acrolein	4.190	56	524	0.368	ug/l #	81
15) Acrylonitrile	5.737	53	1461	0.412	ug/l #	77
16) Acetone	4.454	43	1741	0.538	ug/l	100
20) Methylene Chloride	5.301	84	2730	0.361	ug/l #	81
25) 2-Butanone	7.513	43	1676	0.354	ug/l #	39
31) Cyclohexane	8.230	56	11674	0.931	ug/l #	1
36) 1,1-Dichloropropene	8.230	75	45327	4.991	ug/l #	48
38) Carbon Tetrachloride	8.230	117	56393	6.113	ug/l #	17
51) 4-Methyl-2-Pentanone	10.442	43	2150	0.239	ug/l #	66
59) 2-Hexanone	11.201	43	3278	0.503	ug/l	97
71) Bromoform	12.854	173	2178	0.527	ug/l #	1
76) 1,2,3-Trichloropropane	12.854	75	174504	24.174	ug/l #	1
77) Bromobenzene	12.977	156	1898	0.344	ug/l	72
81) trans-1,4-Dichloro-2-b...	12.854	75	174504	79.728	ug/l #	15
82) 4-Chlorotoluene	13.224	91	4404	0.255	ug/l	93
87) 1,3-Dichlorobenzene	13.742	146	3437	0.341	ug/l	95
88) 1,4-Dichlorobenzene	13.742	146	3437	0.336	ug/l	95
89) n-Butylbenzene	14.060	91	3825	0.222	ug/l #	78
91) 1,2-Dichlorobenzene	14.112	146	3507	0.343	ug/l	96
92) 1,2-Dibromo-3-Chloropr...	14.718	75	423	0.279	ug/l	56
93) 1,2,4-Trichlorobenzene	15.395	180	3368	0.659	ug/l	80
95) Naphthalene	15.642	128	16245	0.993	ug/l	98
96) 1,2,3-Trichlorobenzene	15.848	180	3723	0.741	ug/l	95

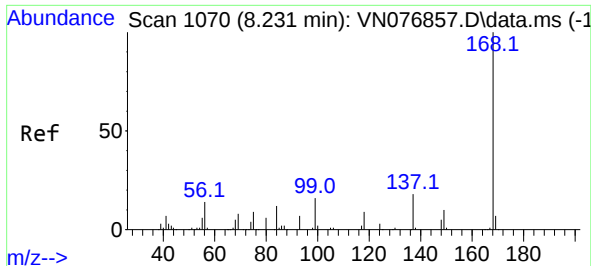
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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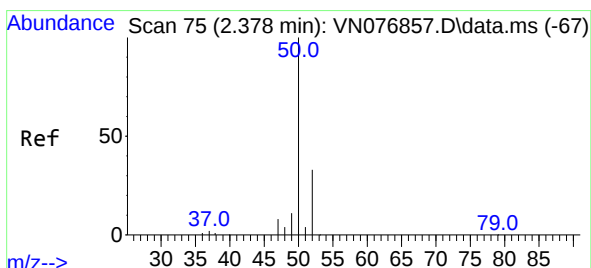
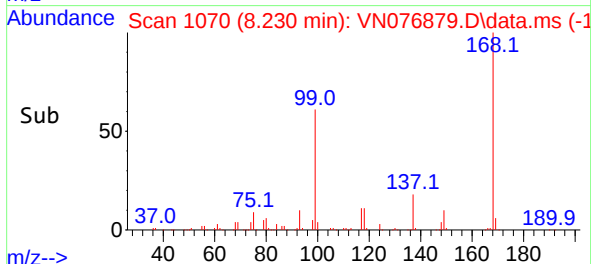
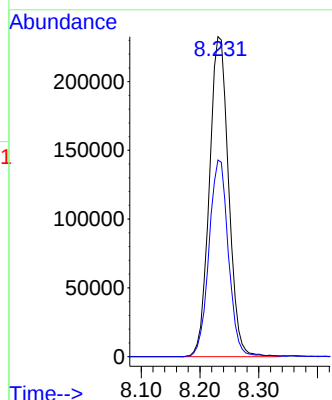
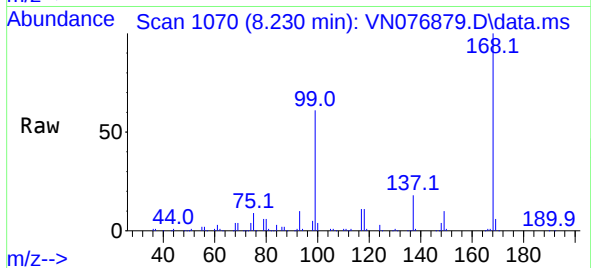




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.230 min Scan# 10
Delta R.T. -0.001 min
Lab File: VN076879.D
Acq: 08 Mar 2023 12:20

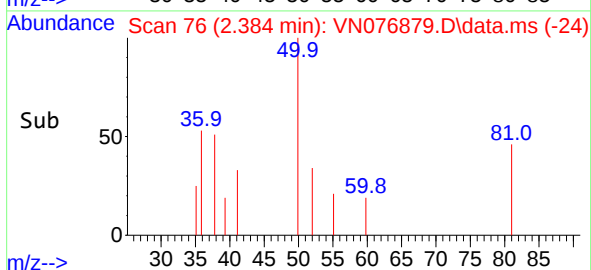
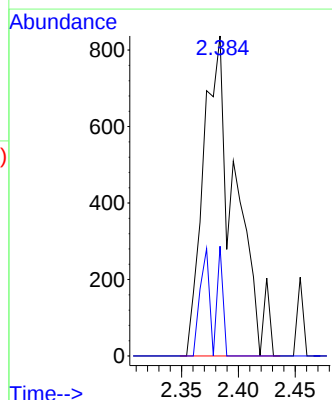
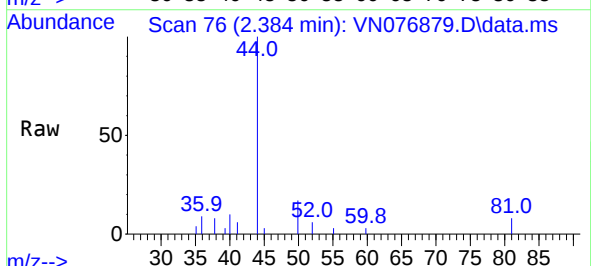
Instrument :
MSVOA_N
ClientSampleId :
IBLK

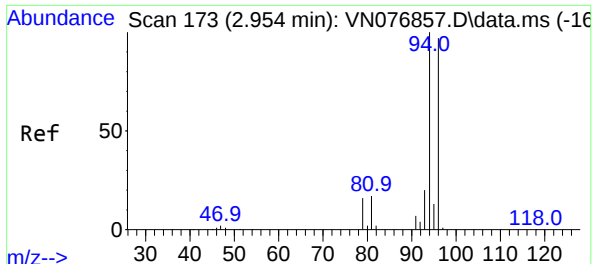
Tgt Ion:168 Resp: 529180
Ion Ratio Lower Upper
168 100
99 61.5 48.6 73.0



#3
Chloromethane
Concen: 0.203 ug/l
RT: 2.384 min Scan# 76
Delta R.T. 0.006 min
Lab File: VN076879.D
Acq: 08 Mar 2023 12:20

Tgt Ion: 50 Resp: 1642
Ion Ratio Lower Upper
50 100
52 34.3 27.9 41.9

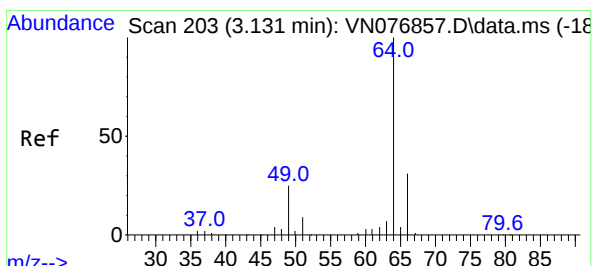
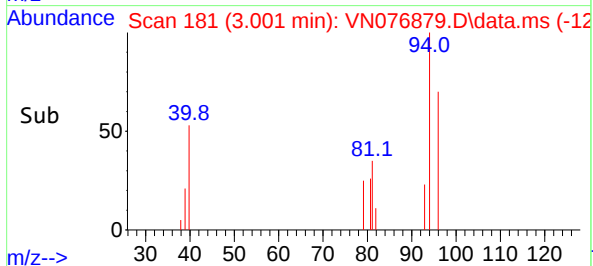
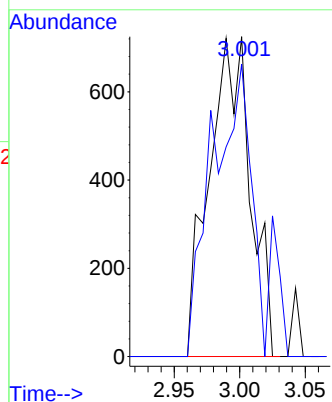
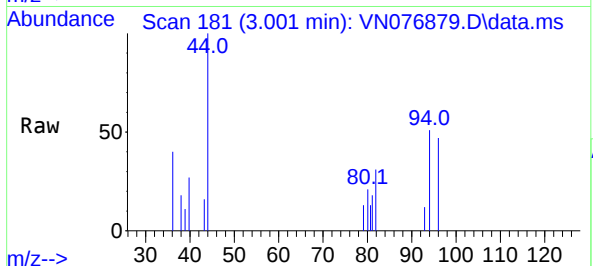




#5
Bromomethane
Concen: 0.325 ug/l
RT: 3.001 min Scan# 11
Delta R.T. 0.047 min
Lab File: VN076879.D
Acq: 08 Mar 2023 12:20

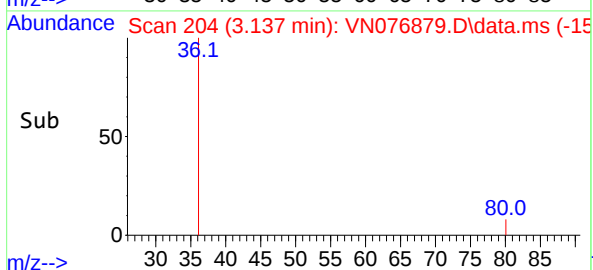
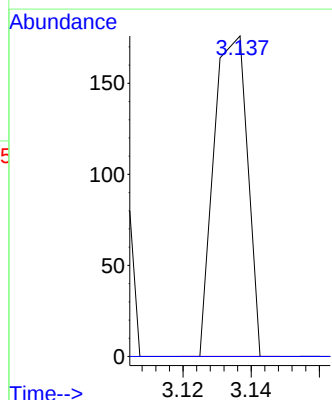
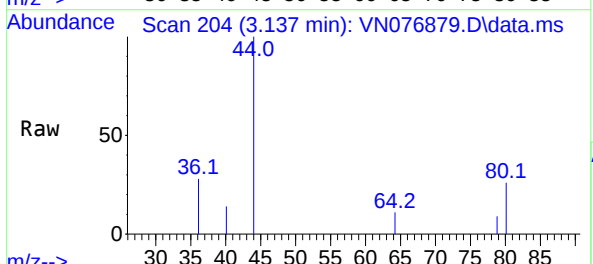
Instrument :
MSVOA_N
ClientSampleId :
IBLK

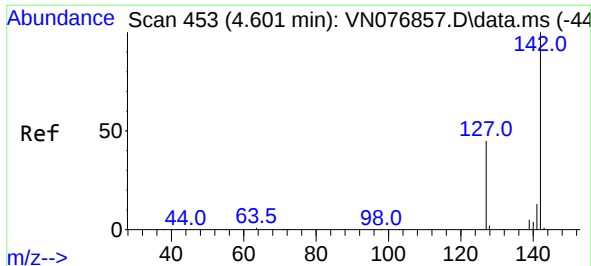
Tgt Ion: 94 Resp: 1586
Ion Ratio Lower Upper
94 100
96 91.4 79.0 118.6



#6
Chloroethane
Concen: Below Cal
RT: 3.137 min Scan# 204
Delta R.T. 0.006 min
Lab File: VN076879.D
Acq: 08 Mar 2023 12:20

Tgt Ion: 64 Resp: 120
Ion Ratio Lower Upper
64 100
66 0.0 26.2 39.4#

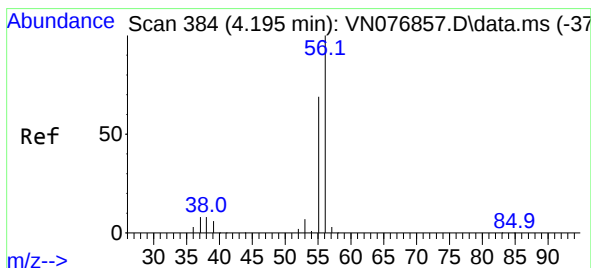
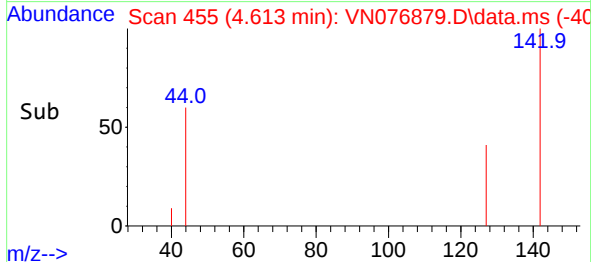
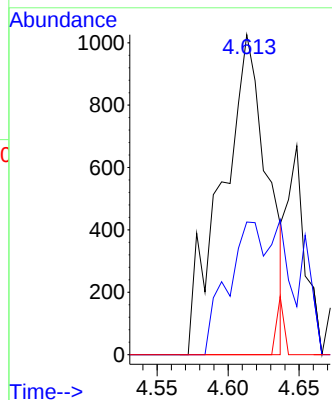
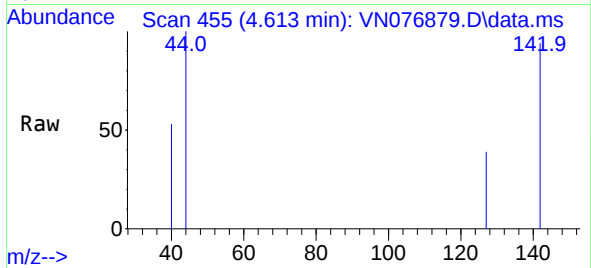




#10
Methyl Iodide
Concen: 0.346 ug/l
RT: 4.613 min Scan# 41
Delta R.T. 0.012 min
Lab File: VN076879.D
Acq: 08 Mar 2023 12:20

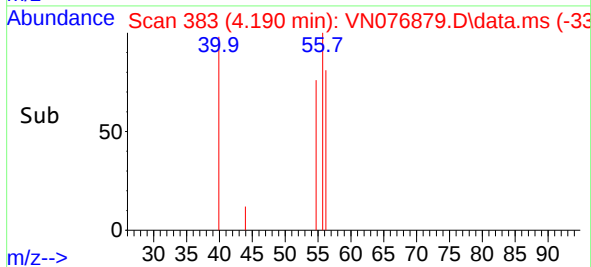
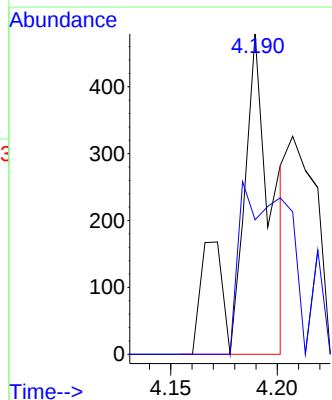
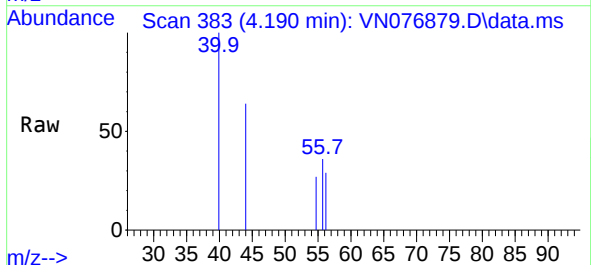
Instrument :
MSVOA_N
ClientSampleId :
IBLK

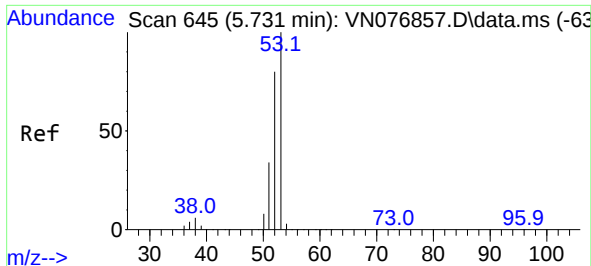
Tgt Ion:142 Resp: 2285
Ion Ratio Lower Upper
142 100
127 41.4 35.2 52.8
141 0.0 10.2 15.2#



#13
Acrolein
Concen: 0.368 ug/l
RT: 4.190 min Scan# 383
Delta R.T. -0.005 min
Lab File: VN076879.D
Acq: 08 Mar 2023 12:20

Tgt Ion: 56 Resp: 524
Ion Ratio Lower Upper
56 100
55 86.5 56.7 85.1#

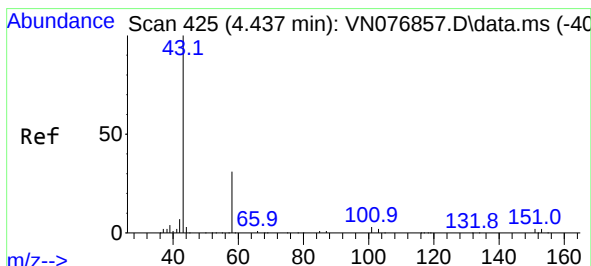
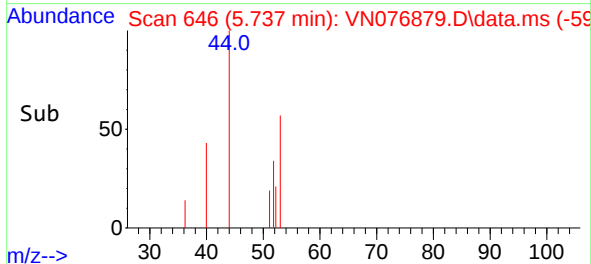
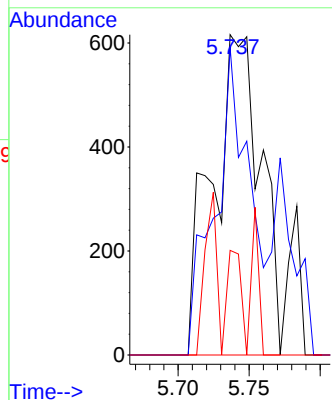
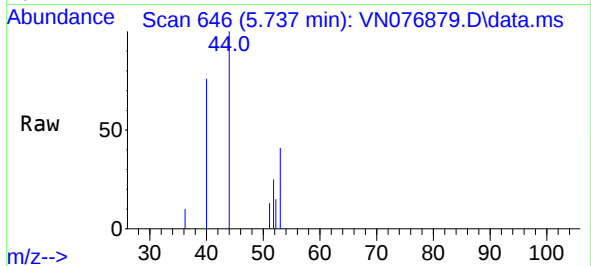




#15
Acrylonitrile
Concen: 0.412 ug/l
RT: 5.737 min Scan# 645
Delta R.T. 0.006 min
Lab File: VN076879.D
Acq: 08 Mar 2023 12:20

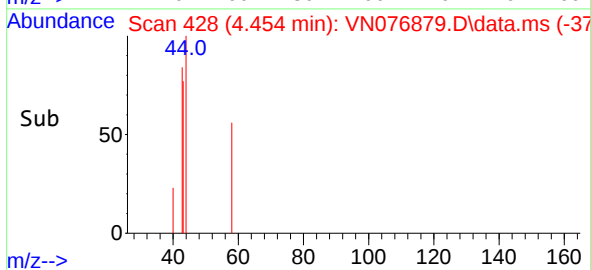
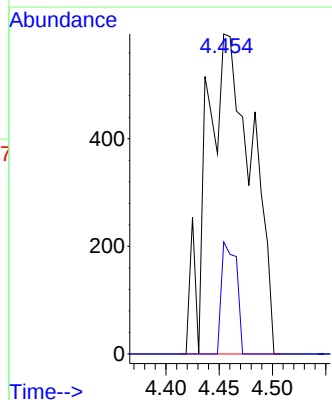
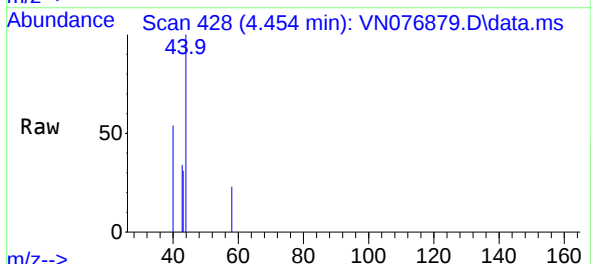
Instrument :
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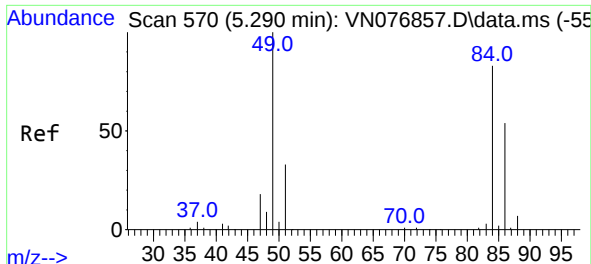
Tgt Ion: 53 Resp: 1461
Ion Ratio Lower Upper
53 100
52 68.0 65.3 97.9
51 12.5 28.8 43.2#



#16
Acetone
Concen: 0.538 ug/l
RT: 4.454 min Scan# 428
Delta R.T. 0.017 min
Lab File: VN076879.D
Acq: 08 Mar 2023 12:20

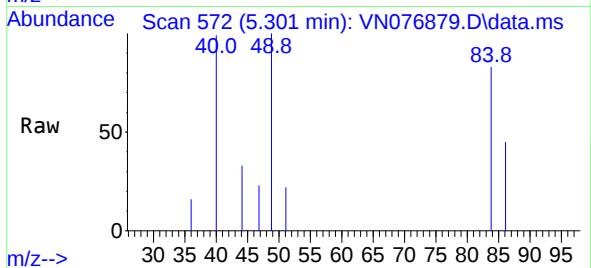
Tgt Ion: 43 Resp: 1741
Ion Ratio Lower Upper
43 100
58 35.0 28.2 42.2





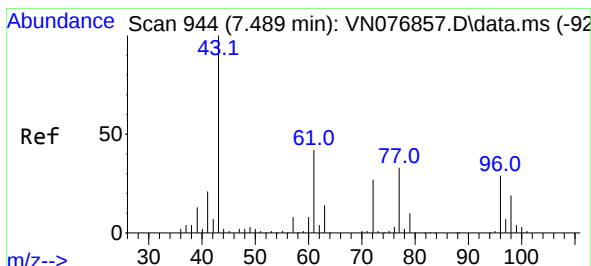
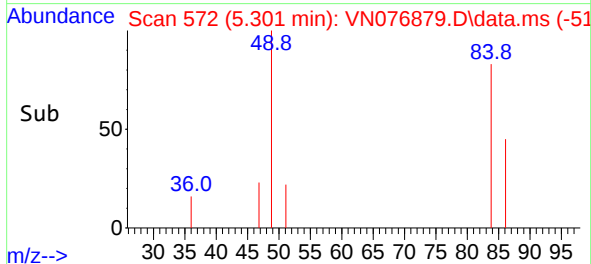
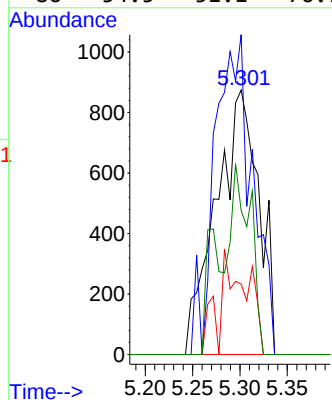
#20
Methylene Chloride
Concen: 0.361 ug/l
RT: 5.301 min Scan# 51
Delta R.T. 0.011 min
Lab File: VN076879.D
Acq: 08 Mar 2023 12:20

Instrument :
MSVOA_N
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Tgt Ion: 84 Resp: 2730

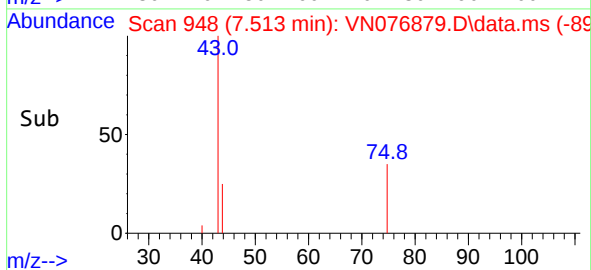
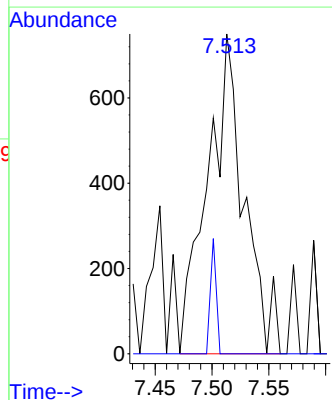
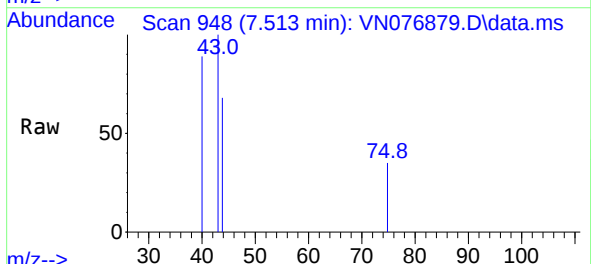
Ion	Ratio	Lower	Upper
84	100		
49	120.9	76.6	114.8#
51	26.7	25.4	38.2
86	54.5	51.1	76.7

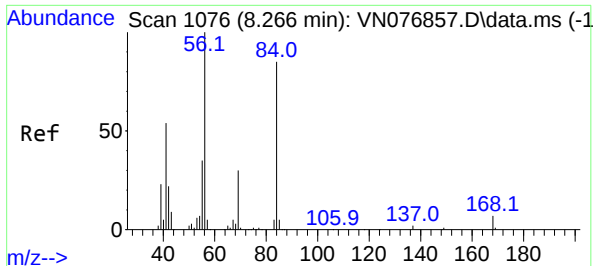


#25
2-Butanone
Concen: 0.354 ug/l
RT: 7.513 min Scan# 948
Delta R.T. 0.024 min
Lab File: VN076879.D
Acq: 08 Mar 2023 12:20

Tgt Ion: 43 Resp: 1676

Ion	Ratio	Lower	Upper
43	100		
72	0.0	28.8	43.2#

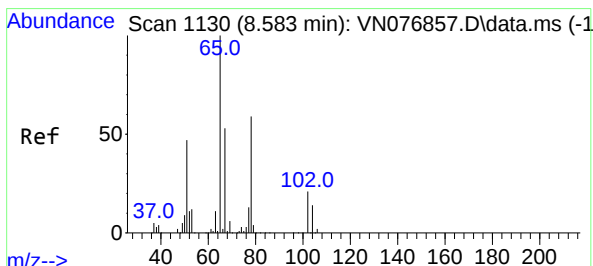
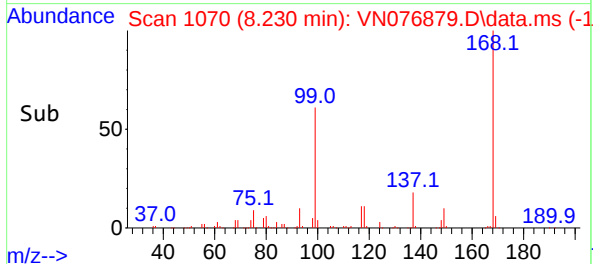
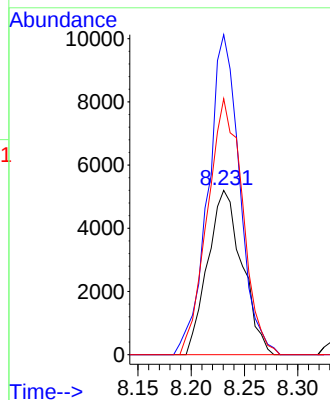
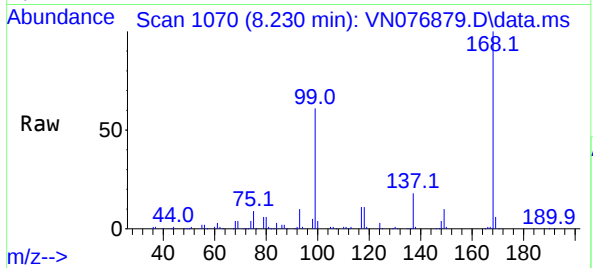




#31
Cyclohexane
Concen: 0.931 ug/l
RT: 8.230 min Scan# 1107
Delta R.T. -0.036 min
Lab File: VN076879.D
Acq: 08 Mar 2023 12:20

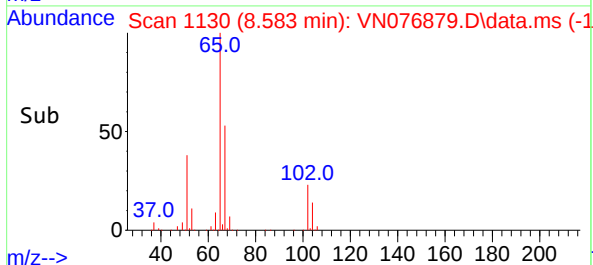
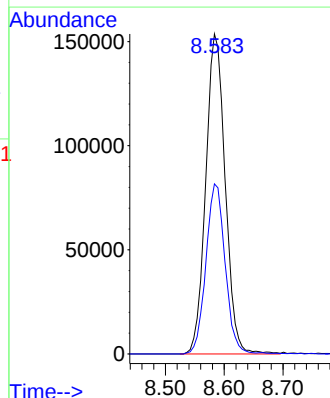
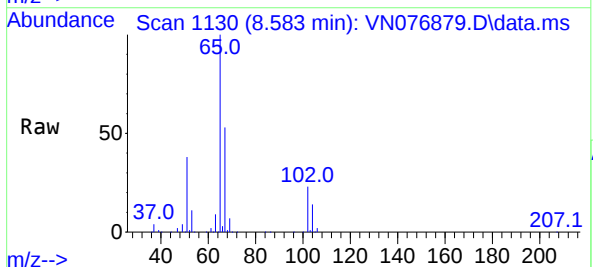
Instrument :
MSVOA_N
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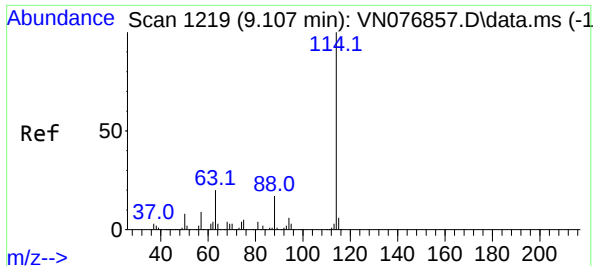
Tgt Ion: 56 Resp: 11674
Ion Ratio Lower Upper
56 100
69 194.7 27.0 40.6#
84 155.7 82.9 124.3#



#33
1,2-Dichloroethane-d4
Concen: 47.651 ug/l
RT: 8.583 min Scan# 1130
Delta R.T. 0.000 min
Lab File: VN076879.D
Acq: 08 Mar 2023 12:20

Tgt Ion: 65 Resp: 353535
Ion Ratio Lower Upper
65 100
67 52.3 0.0 107.2





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.107 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN076879.D

Acq: 08 Mar 2023 12:20

Instrument :

MSVOA_N

ClientSampleId :

IBLK

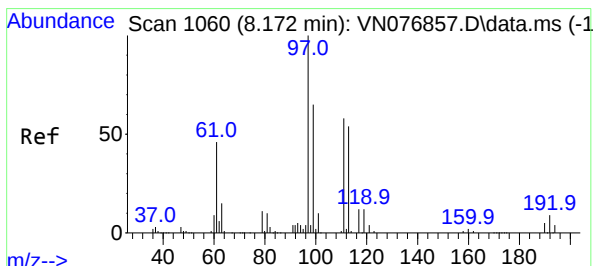
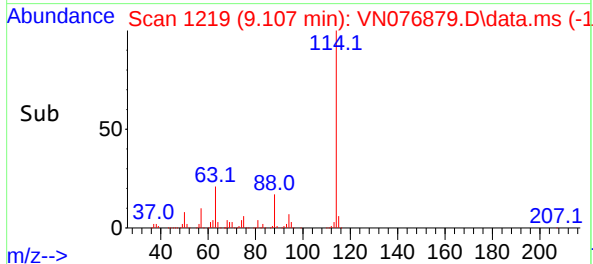
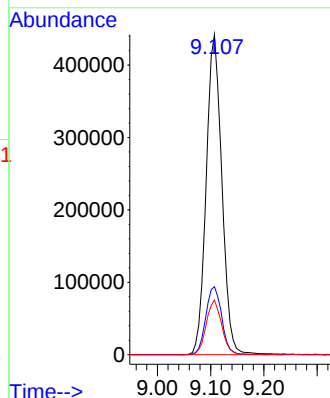
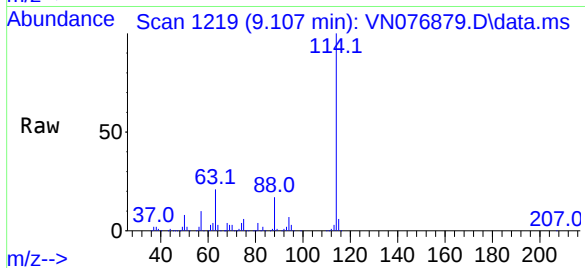
Tgt Ion:114 Resp: 903237

Ion Ratio Lower Upper

114 100

63 21.3 0.0 36.6

88 17.1 0.0 28.6



#35

Dibromofluoromethane

Concen: 49.149 ug/l

RT: 8.172 min Scan# 1060

Delta R.T. -0.000 min

Lab File: VN076879.D

Acq: 08 Mar 2023 12:20

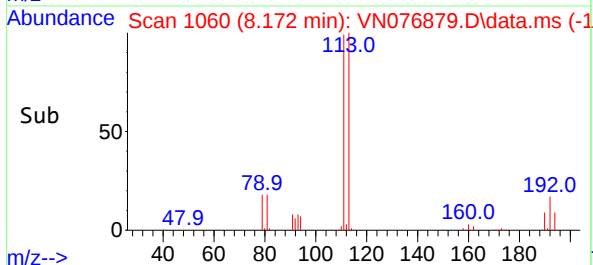
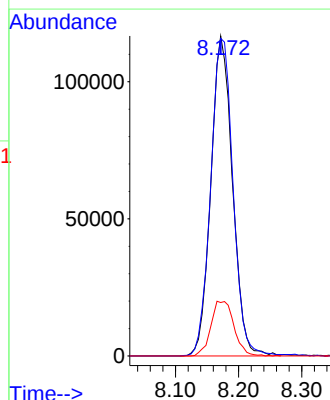
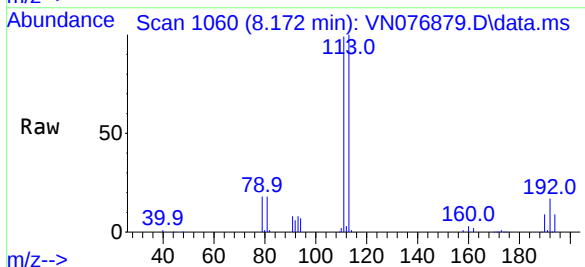
Tgt Ion:113 Resp: 277716

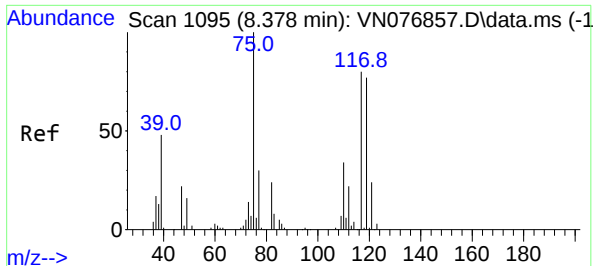
Ion Ratio Lower Upper

113 100

111 102.5 81.8 122.8

192 18.2 13.9 20.9





#36

1,1-Dichloropropene

Concen: 4.991 ug/l

RT: 8.230 min Scan# 1070

Delta R.T. -0.148 min

Lab File: VN076879.D

Acq: 08 Mar 2023 12:20

Instrument :

MSVOA_N

ClientSampleId :

IBLK

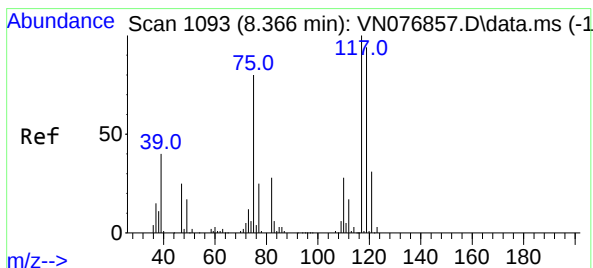
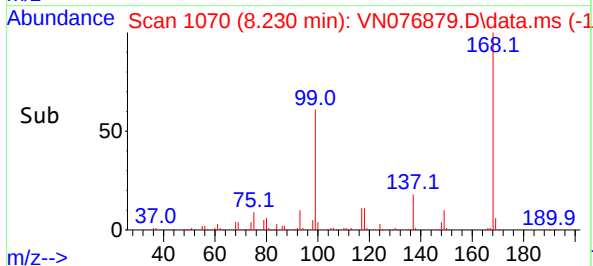
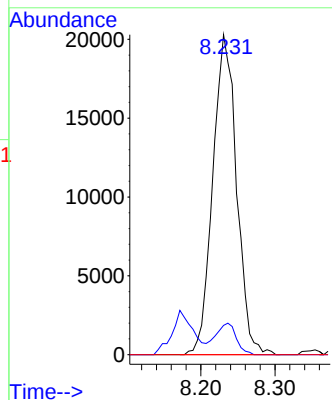
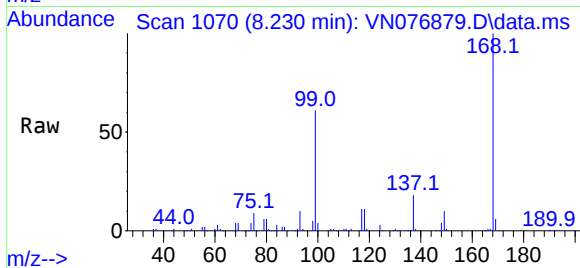
Tgt Ion: 75 Resp: 45327

Ion Ratio Lower Upper

75 100

110 8.6 18.9 56.9#

77 0.0 24.9 37.3#



#38

Carbon Tetrachloride

Concen: 6.113 ug/l

RT: 8.230 min Scan# 1070

Delta R.T. -0.136 min

Lab File: VN076879.D

Acq: 08 Mar 2023 12:20

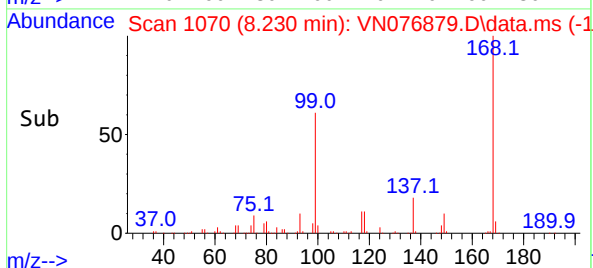
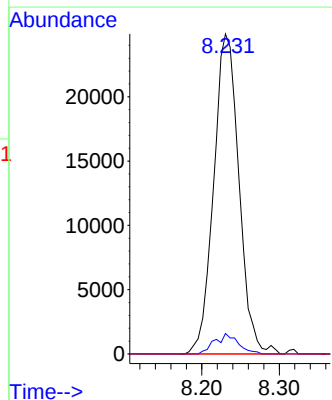
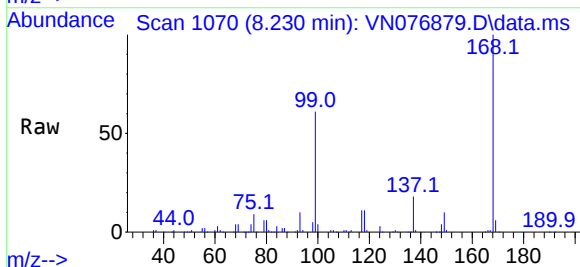
Tgt Ion: 117 Resp: 56393

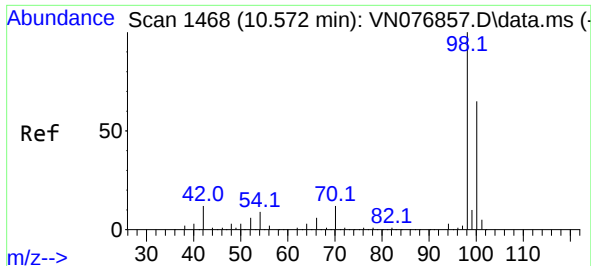
Ion Ratio Lower Upper

117 100

119 6.4 76.9 115.3#

121 0.0 23.2 34.8#

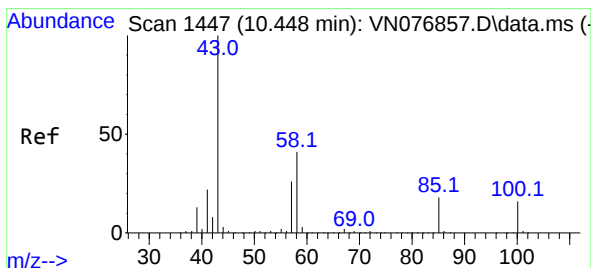
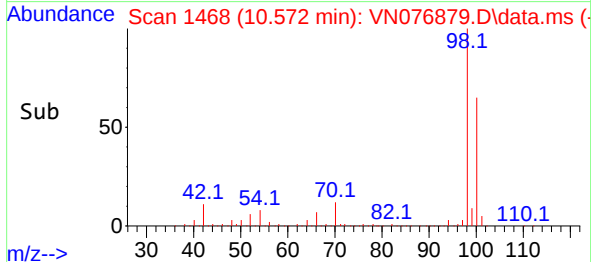
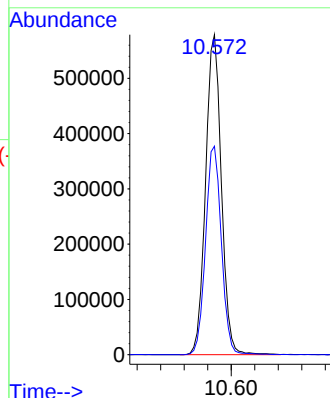
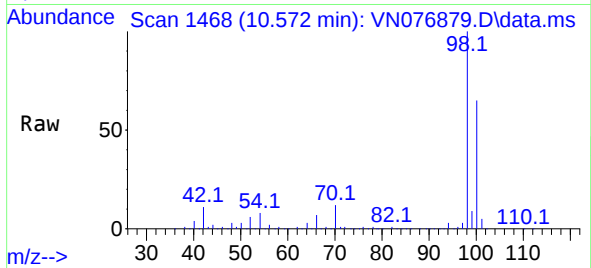




#50
Toluene-d8
Concen: 49.617 ug/l
RT: 10.572 min Scan# 1468
Delta R.T. -0.000 min
Lab File: VN076879.D
Acq: 08 Mar 2023 12:20

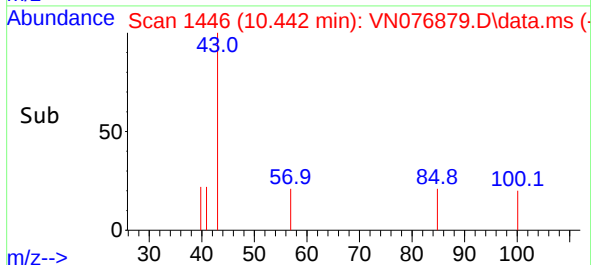
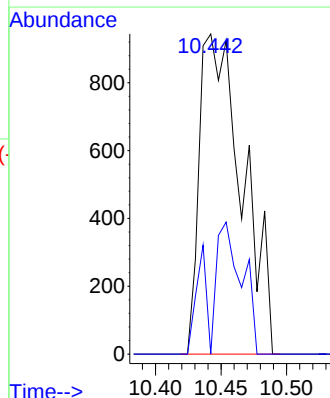
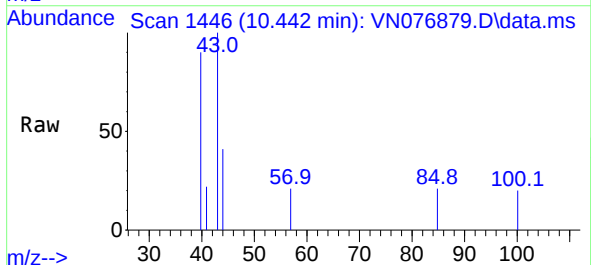
Instrument :
MSVOA_N
ClientSampleId :
IBLK

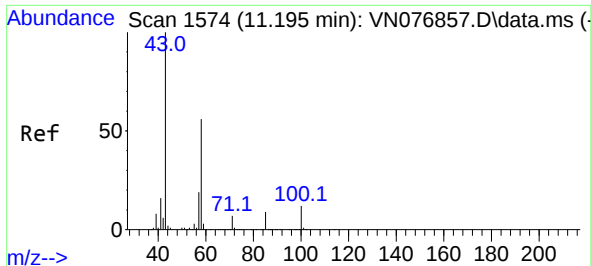
Tgt Ion: 98 Resp: 1080135
Ion Ratio Lower Upper
98 100
100 65.5 52.8 79.2



#51
4-Methyl-2-Pentanone
Concen: 0.239 ug/l
RT: 10.442 min Scan# 1446
Delta R.T. -0.006 min
Lab File: VN076879.D
Acq: 08 Mar 2023 12:20

Tgt Ion: 43 Resp: 2150
Ion Ratio Lower Upper
43 100
58 24.2 37.4 56.0#

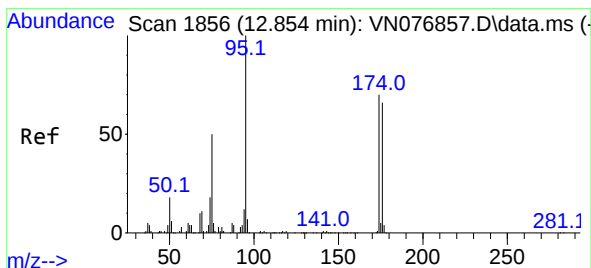
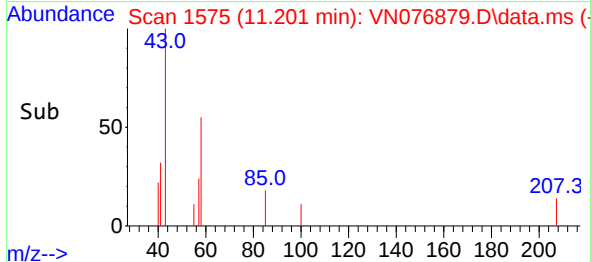
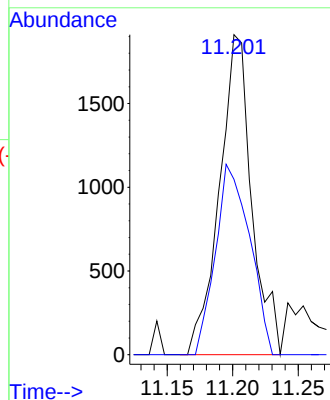
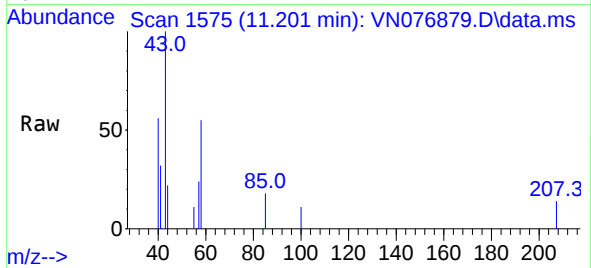




#59
2-Hexanone
Concen: 0.503 ug/l
RT: 11.201 min Scan# 111
Delta R.T. 0.006 min
Lab File: VN076879.D
Acq: 08 Mar 2023 12:20

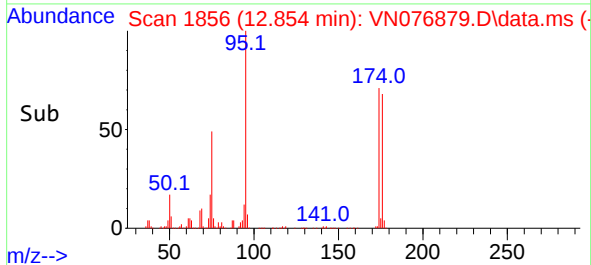
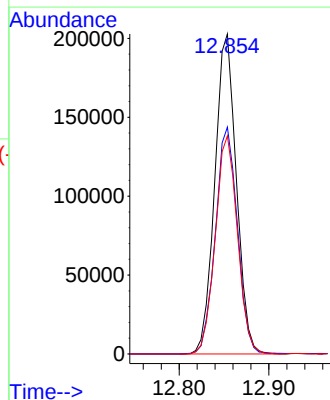
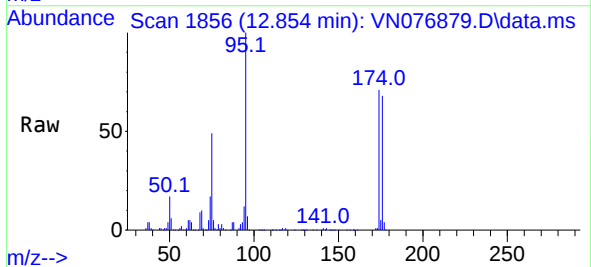
Instrument :
MSVOA_N
ClientSampleId :
IBLK

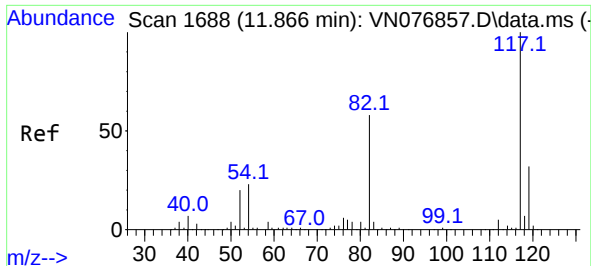
Tgt Ion: 43 Resp: 3278
Ion Ratio Lower Upper
43 100
58 63.1 32.6 98.0



#62
4-Bromofluorobenzene
Concen: 44.840 ug/l
RT: 12.854 min Scan# 1856
Delta R.T. -0.000 min
Lab File: VN076879.D
Acq: 08 Mar 2023 12:20

Tgt Ion: 95 Resp: 338245
Ion Ratio Lower Upper
95 100
174 72.6 0.0 162.4
176 69.8 0.0 157.4

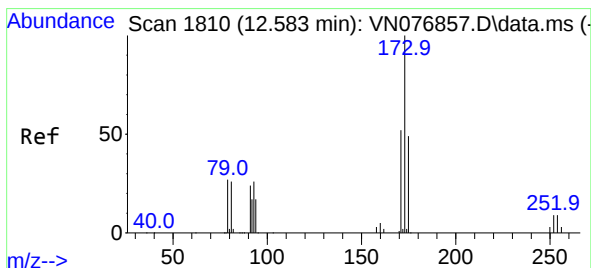
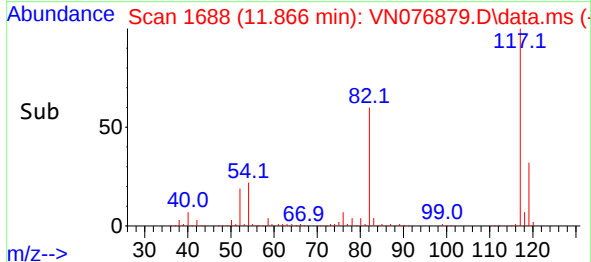
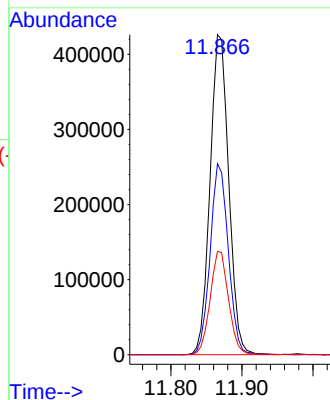
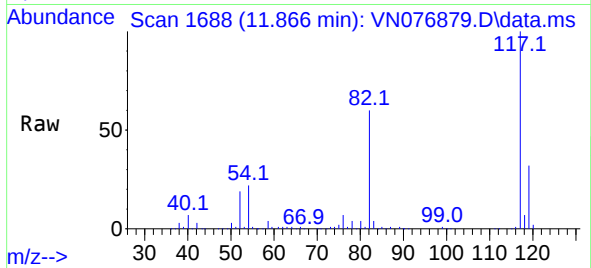




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.866 min Scan# 117
Delta R.T. -0.000 min
Lab File: VN076879.D
Acq: 08 Mar 2023 12:20

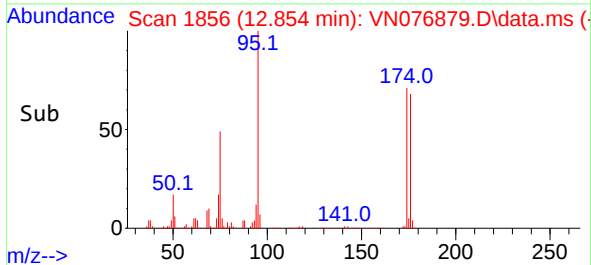
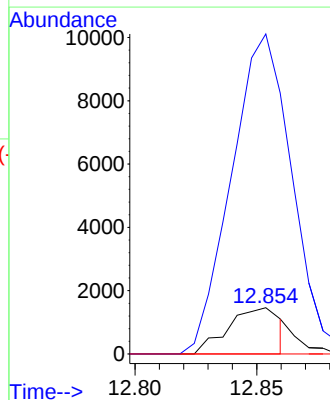
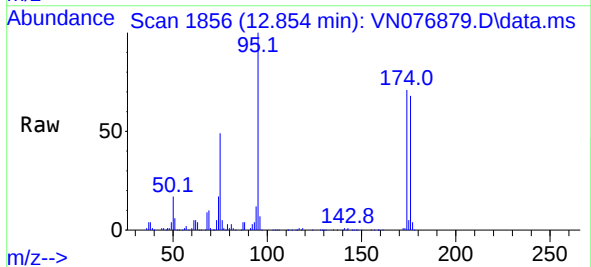
Instrument :
MSVOA_N
ClientSampleId :
IBLK

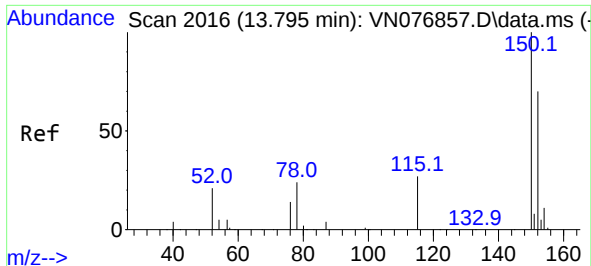
Tgt Ion:117 Resp: 776548
Ion Ratio Lower Upper
117 100
82 59.7 43.5 65.3
119 32.3 25.5 38.3



#71
Bromoform
Concen: 0.527 ug/l
RT: 12.854 min Scan# 1856
Delta R.T. 0.271 min
Lab File: VN076879.D
Acq: 08 Mar 2023 12:20

Tgt Ion:173 Resp: 2178
Ion Ratio Lower Upper
173 100
175 660.5 24.9 74.6#
254 0.0 0.0 0.0

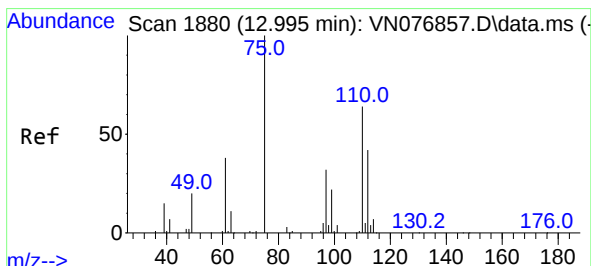
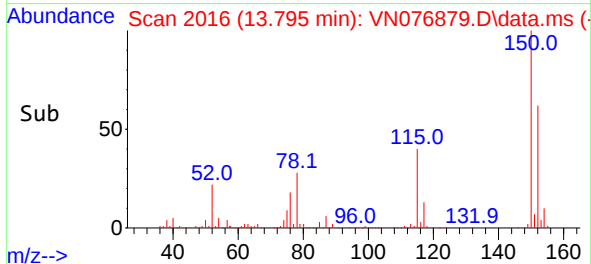
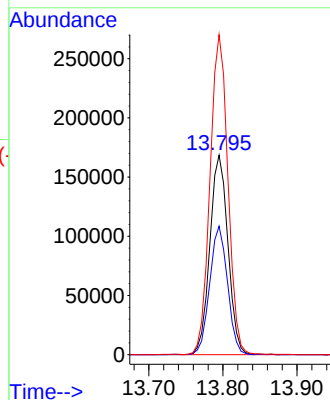
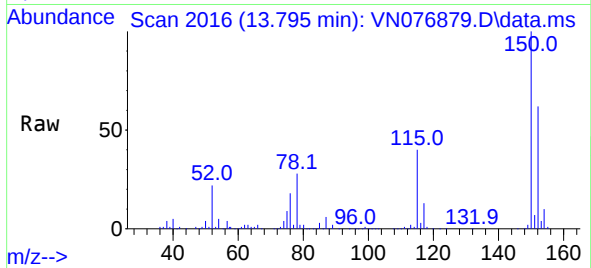




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.795 min Scan# 2016
Delta R.T. -0.000 min
Lab File: VN076879.D
Acq: 08 Mar 2023 12:20

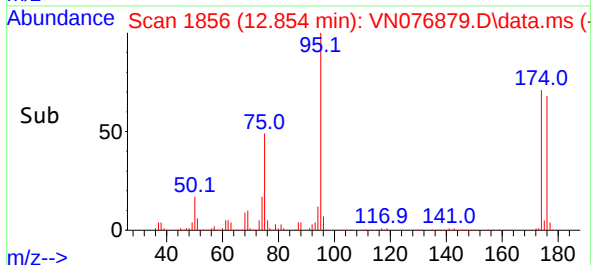
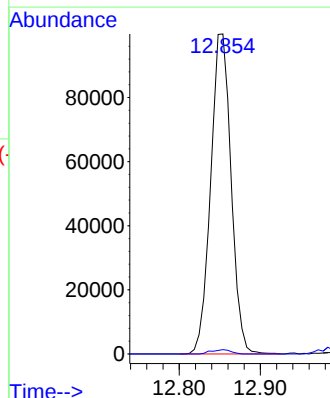
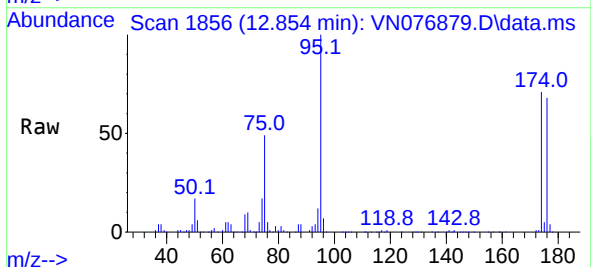
Instrument :
MSVOA_N
ClientSampleId :
IBLK

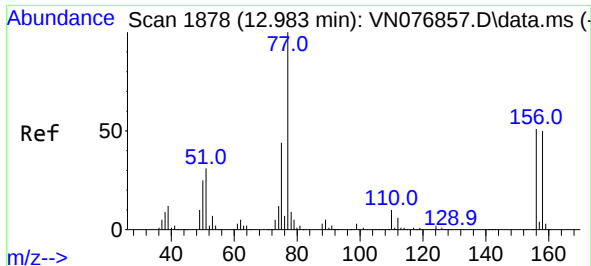
Tgt Ion:152 Resp: 286226
Ion Ratio Lower Upper
152 100
115 63.3 30.3 90.9
150 158.8 0.0 353.6



#76
1,2,3-Trichloropropane
Concen: 24.174 ug/l
RT: 12.854 min Scan# 1856
Delta R.T. -0.141 min
Lab File: VN076879.D
Acq: 08 Mar 2023 12:20

Tgt Ion: 75 Resp: 174504
Ion Ratio Lower Upper
75 100
77 1.3 93.8 281.4#



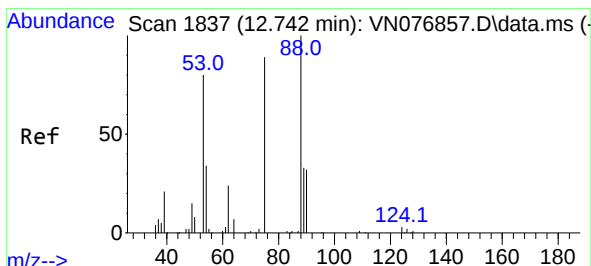
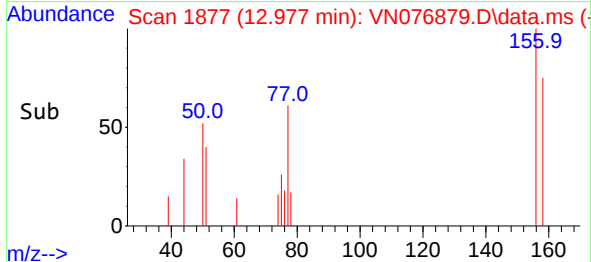
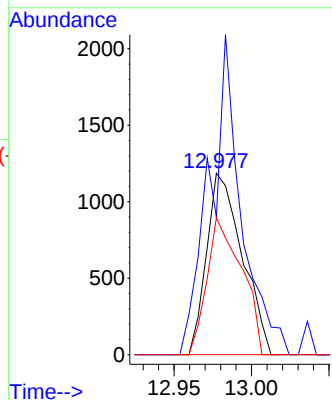
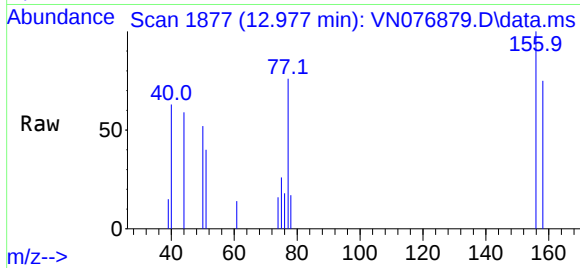


#77
Bromobenzene
Concen: 0.344 ug/l
RT: 12.977 min Scan# 1877
Delta R.T. -0.006 min
Lab File: VN076879.D
Acq: 08 Mar 2023 12:20

Instrument : MSVOA_N
ClientSampleId : IBLK

Tgt Ion:156 Resp: 1898

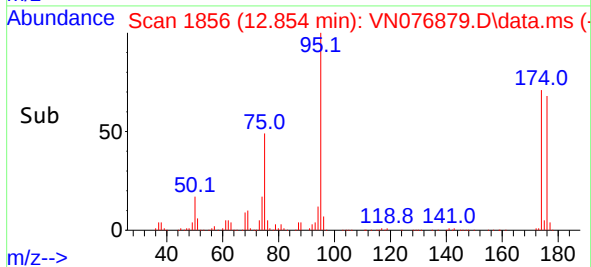
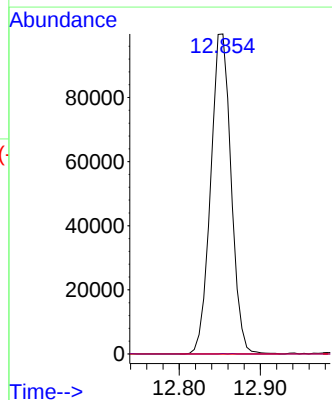
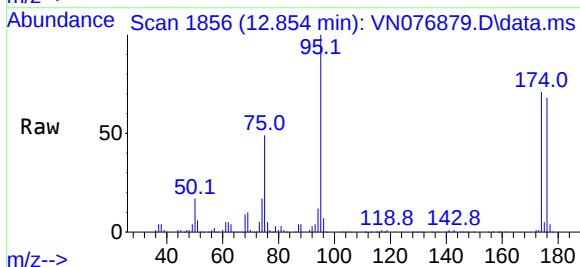
Ion	Ratio	Lower	Upper
156	100		
77	156.3	101.3	303.7
158	73.4	48.9	146.7

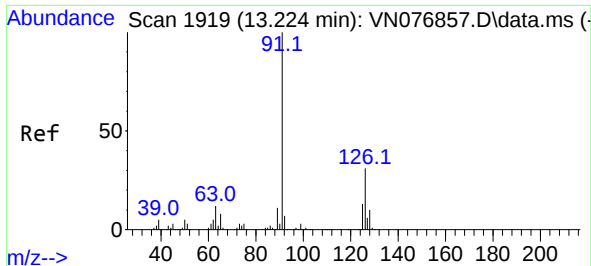


#81
trans-1,4-Dichloro-2-butene
Concen: 79.728 ug/l
RT: 12.854 min Scan# 1856
Delta R.T. 0.112 min
Lab File: VN076879.D
Acq: 08 Mar 2023 12:20

Tgt Ion: 75 Resp: 174504

Ion	Ratio	Lower	Upper
75	100		
53	0.0	67.4	101.0#
89	0.0	39.5	59.3#

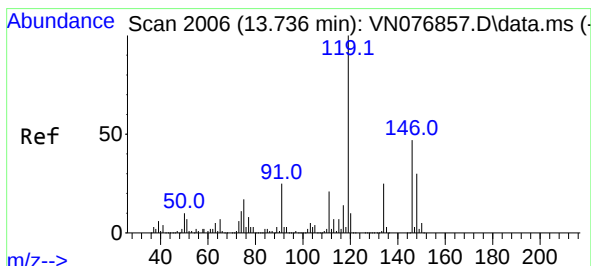
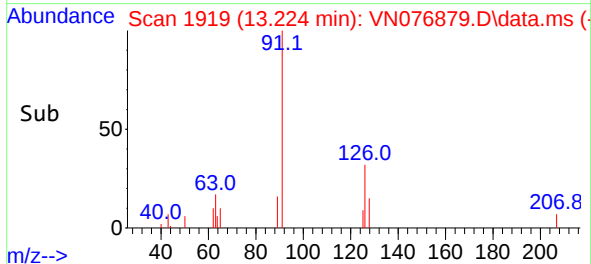
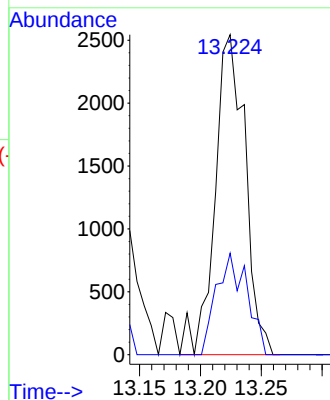
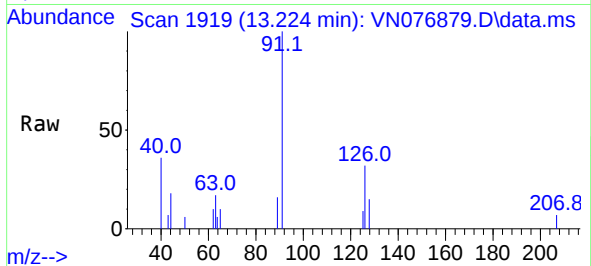




#82
4-Chlorotoluene
Concen: 0.255 ug/l
RT: 13.224 min Scan# 1919
Delta R.T. 0.000 min
Lab File: VN076879.D
Acq: 08 Mar 2023 12:20

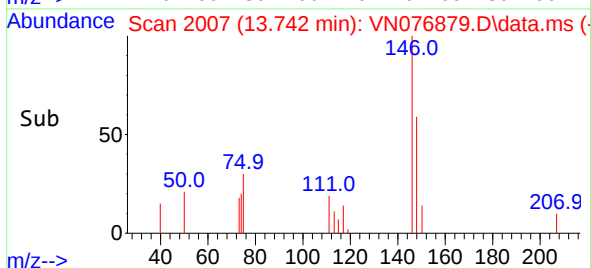
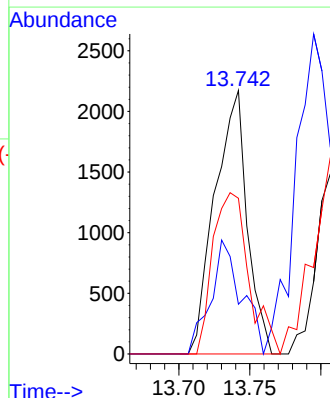
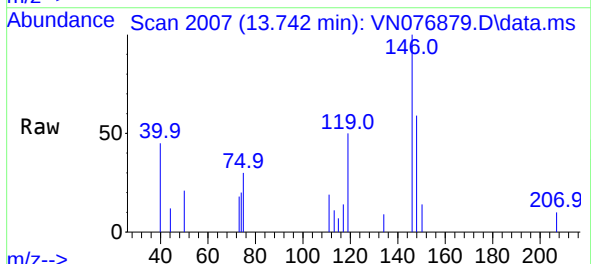
Instrument :
MSVOA_N
ClientSampleId :
IBLK

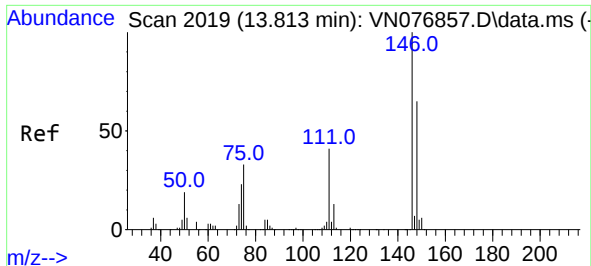
Tgt Ion: 91 Resp: 4404
Ion Ratio Lower Upper
91 100
126 31.9 18.0 54.0



#87
1,3-Dichlorobenzene
Concen: 0.341 ug/l
RT: 13.742 min Scan# 2007
Delta R.T. 0.006 min
Lab File: VN076879.D
Acq: 08 Mar 2023 12:20

Tgt Ion: 146 Resp: 3437
Ion Ratio Lower Upper
146 100
111 41.6 20.4 61.2
148 68.4 31.5 94.5

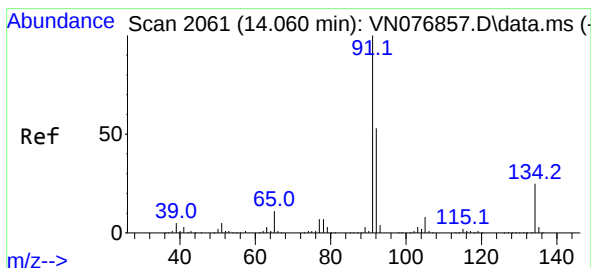
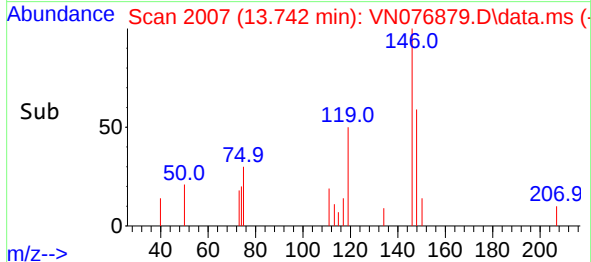
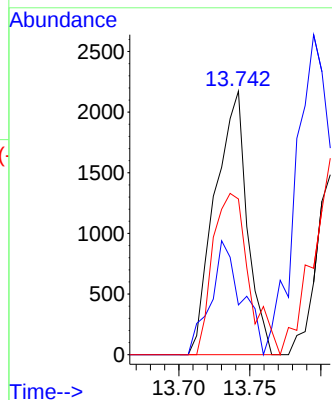
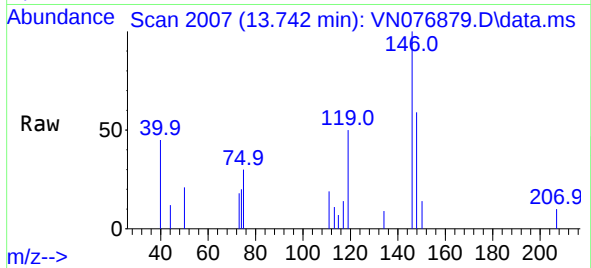




#88
1,4-Dichlorobenzene
Concen: 0.336 ug/l
RT: 13.742 min Scan# 2019
Delta R.T. -0.071 min
Lab File: VN076879.D
Acq: 08 Mar 2023 12:20

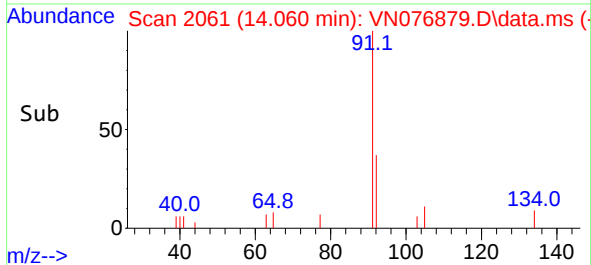
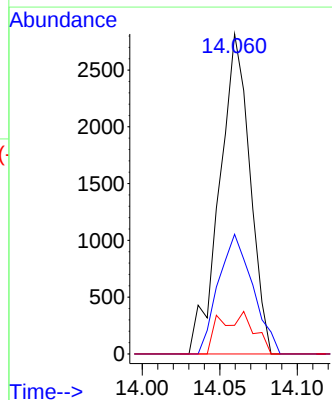
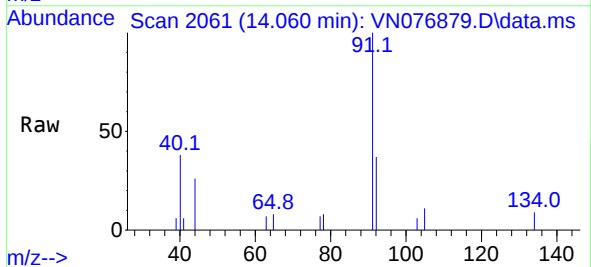
Instrument :
MSVOA_N
ClientSampleId :
IBLK

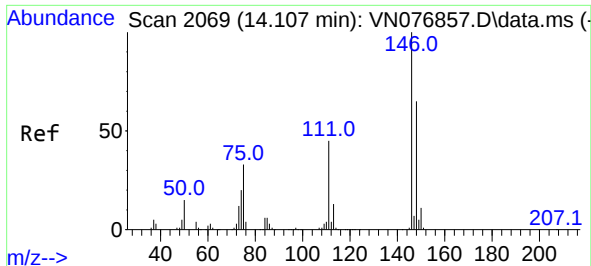
Tgt Ion:146 Resp: 3437
Ion Ratio Lower Upper
146 100
111 41.6 20.0 60.0
148 68.4 31.8 95.4



#89
n-Butylbenzene
Concen: 0.222 ug/l
RT: 14.060 min Scan# 2061
Delta R.T. -0.000 min
Lab File: VN076879.D
Acq: 08 Mar 2023 12:20

Tgt Ion: 91 Resp: 3825
Ion Ratio Lower Upper
91 100
92 42.6 26.6 79.7
134 7.8 13.6 40.7#





#91

1,2-Dichlorobenzene

Concen: 0.343 ug/l

RT: 14.112 min Scan# 2069

Delta R.T. 0.005 min

Lab File: VN076879.D

Acq: 08 Mar 2023 12:20

Instrument :

MSVOA_N

ClientSampleId :

IBLK

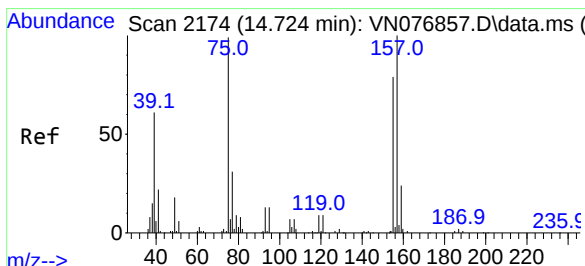
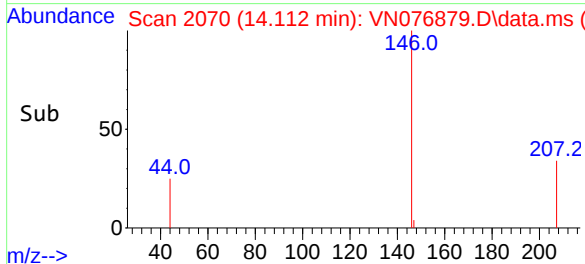
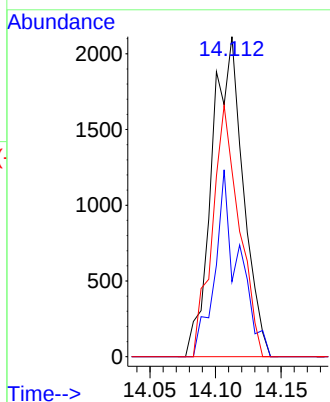
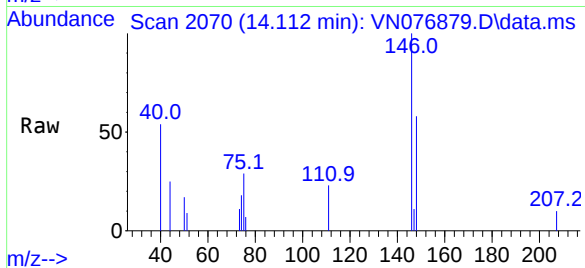
Tgt Ion:146 Resp: 3507

Ion Ratio Lower Upper

146 100

111 44.6 21.4 64.2

148 67.7 32.0 96.0



#92

1,2-Dibromo-3-Chloropropane

Concen: 0.279 ug/l

RT: 14.718 min Scan# 2173

Delta R.T. -0.006 min

Lab File: VN076879.D

Acq: 08 Mar 2023 12:20

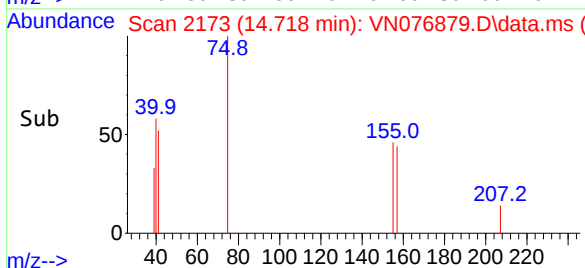
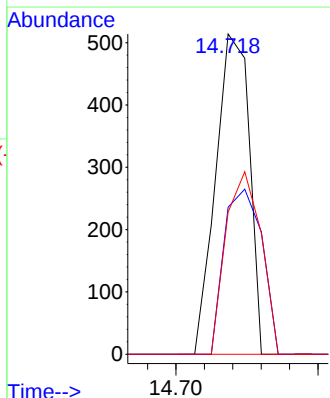
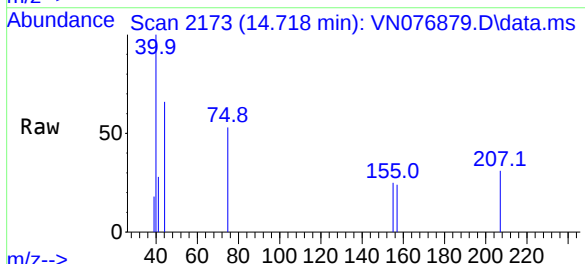
Tgt Ion: 75 Resp: 423

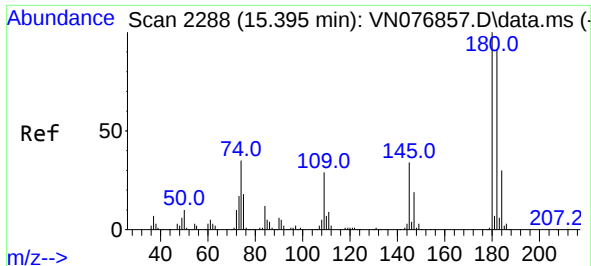
Ion Ratio Lower Upper

75 100

155 58.2 44.3 132.8

157 59.6 58.3 174.8

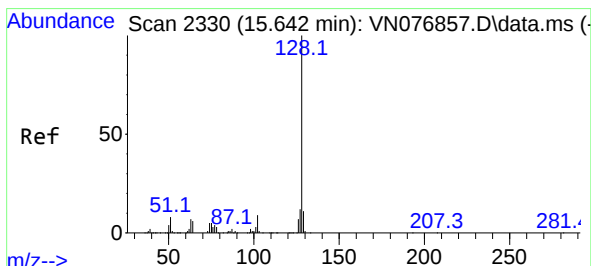
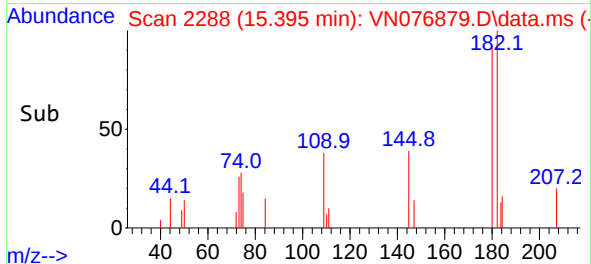
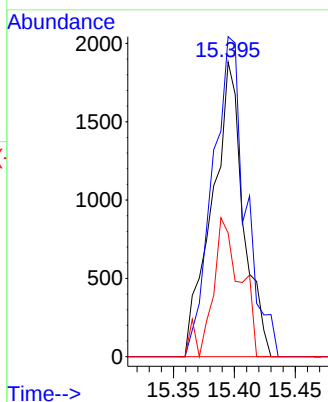
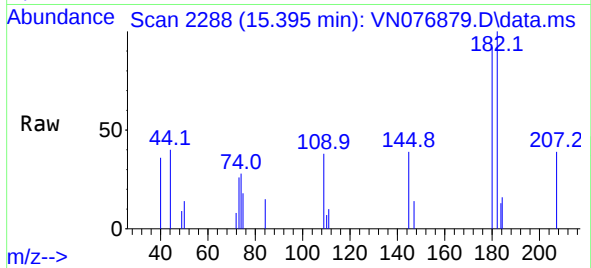




#93
1,2,4-Trichlorobenzene
Concen: 0.659 ug/l
RT: 15.395 min Scan# 21
Delta R.T. -0.000 min
Lab File: VN076879.D
Acq: 08 Mar 2023 12:20

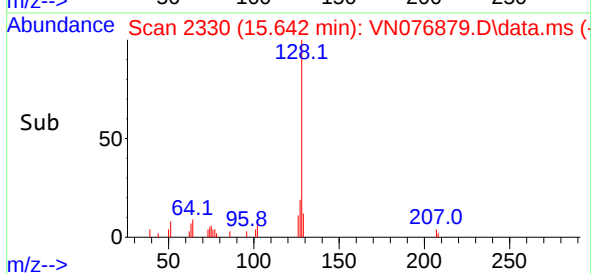
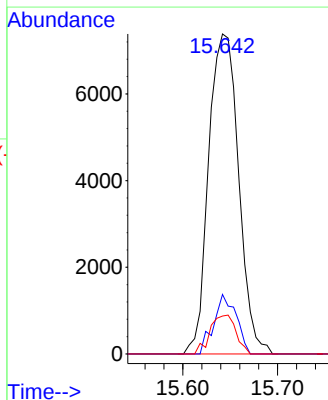
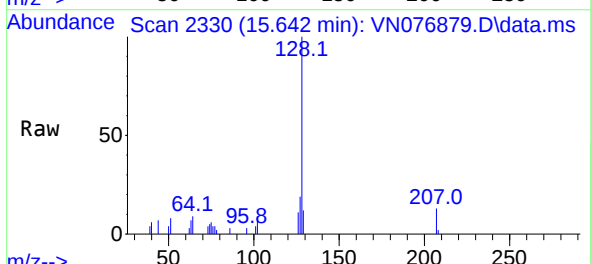
Instrument :
MSVOA_N
ClientSampleId :
IBLK

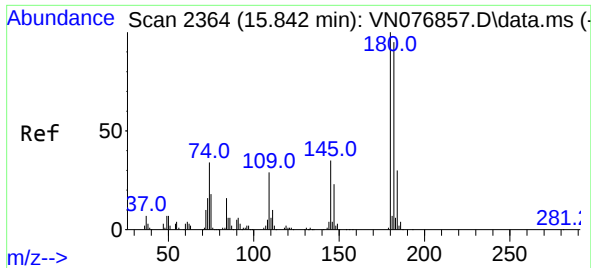
Tgt Ion:180 Resp: 3368
Ion Ratio Lower Upper
180 100
182 114.1 47.4 142.2
145 42.0 15.8 47.3



#95
Naphthalene
Concen: 0.993 ug/l
RT: 15.642 min Scan# 2330
Delta R.T. -0.000 min
Lab File: VN076879.D
Acq: 08 Mar 2023 12:20

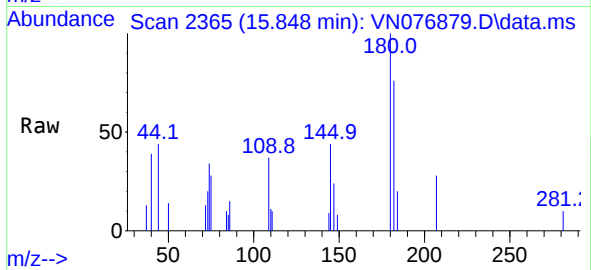
Tgt Ion:128 Resp: 16245
Ion Ratio Lower Upper
128 100
127 13.9 10.2 15.4
129 10.4 8.9 13.3





#96
 1,2,3-Trichlorobenzene
 Concen: 0.741 ug/l
 RT: 15.848 min Scan# 21
 Delta R.T. 0.006 min
 Lab File: VN076879.D
 Acq: 08 Mar 2023 12:20

Instrument :
 MSVOA_N
 ClientSampleId :
 IBLK



Tgt Ion:180 Resp: 3723

Ion	Ratio	Lower	Upper
180	100		
182	89.5	47.7	143.1
145	34.8	17.0	51.0

