

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN110923\
 Data File : VN080023.D
 Acq On : 09 Nov 2023 15:35
 Operator : JC\MD
 Sample : VN1109WBL01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Nov 10 00:30:58 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N110123W.M
 Quant Title : SW846 8260
 QLast Update : Thu Nov 02 05:49:08 2023
 Response via : Initial Calibration

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

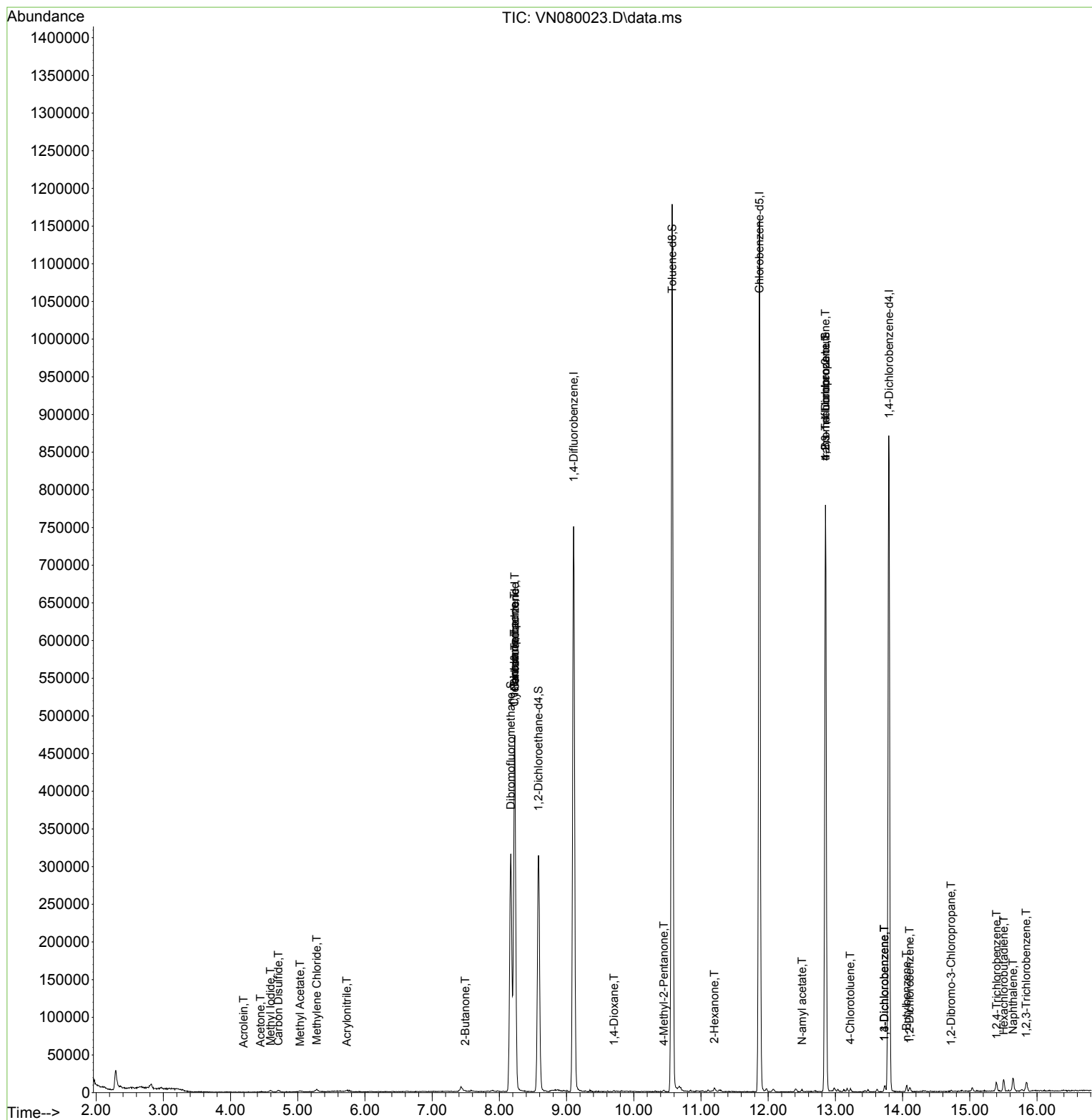
Internal Standards						
1) Pentafluorobenzene	8.230	168	339416	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	658135	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.871	117	662156	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.800	152	229600	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.582	65	260053	50.290	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	= 100.580%	
35) Dibromofluoromethane	8.171	113	232046	49.817	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 99.640%	
50) Toluene-d8	10.571	98	811805	47.342	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	= 94.680%	
62) 4-Bromofluorobenzene	12.853	95	278125	48.905	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	= 97.800%	
Target Compounds						
					Qvalue	
3) Chloromethane	2.359	50	1085	Below Cal	#	69
10) Methyl Iodide	4.595	142	3628	0.823	ug/l	91
13) Acrolein	4.195	56	224	2.935	ug/l #	57
15) Acrylonitrile	5.730	53	1036	0.504	ug/l #	90
16) Acetone	4.447	43	813	0.448	ug/l #	40
17) Carbon Disulfide	4.712	76	5163	0.490	ug/l #	75
18) Methyl Acetate	5.036	43	1992	0.229	ug/l #	77
20) Methylene Chloride	5.283	84	2131	0.465	ug/l #	87
25) 2-Butanone	7.494	43	1193	0.449	ug/l #	37
31) Cyclohexane	8.224	56	7556	1.106	ug/l #	15
36) 1,1-Dichloropropene	8.224	75	28052	4.218	ug/l #	47
38) Carbon Tetrachloride	8.230	117	35598	5.311	ug/l #	15
49) 1,4-Dioxane	9.706	88	137	1.655	ug/l #	30
51) 4-Methyl-2-Pentanone	10.447	43	1617	0.269	ug/l #	83
59) 2-Hexanone	11.200	43	3233	0.702	ug/l	85
74) N-amyl acetate	12.506	43	1567	0.206	ug/l #	85
76) 1,2,3-Trichloropropane	12.853	75	144141	26.741	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.853	75	144141	72.755	ug/l #	15
82) 4-Chlorotoluene	13.223	91	2601	0.205	ug/l	97
87) 1,3-Dichlorobenzene	13.729	146	3017	0.380	ug/l	87
88) 1,4-Dichlorobenzene	13.729	146	3017	0.375	ug/l	89
89) n-Butylbenzene	14.059	91	4566	0.423	ug/l	95
91) 1,2-Dichlorobenzene	14.106	146	2344	0.313	ug/l	90
92) 1,2-Dibromo-3-Chloropr...	14.723	75	421	0.402	ug/l	79
93) 1,2,4-Trichlorobenzene	15.400	180	3591	1.008	ug/l	84
94) Hexachlorobutadiene	15.506	225	3341	2.069	ug/l	88
95) Naphthalene	15.647	128	15341	1.270	ug/l	97
96) 1,2,3-Trichlorobenzene	15.841	180	4597	1.316	ug/l	89

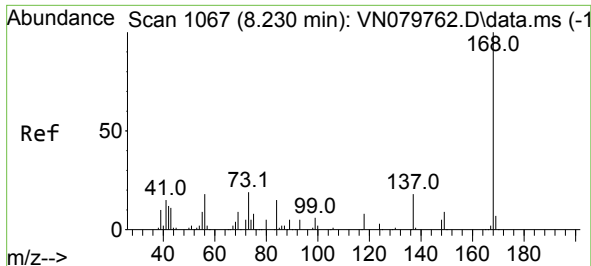
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN110923\
Data File : VN080023.D
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Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_N
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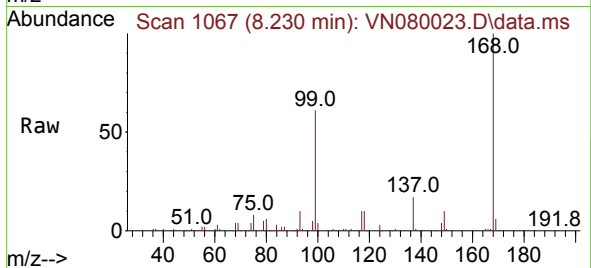
Quant Time: Nov 10 00:30:58 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N110123W.M
Quant Title : SW846 8260
QLast Update : Thu Nov 02 05:49:08 2023
Response via : Initial Calibration



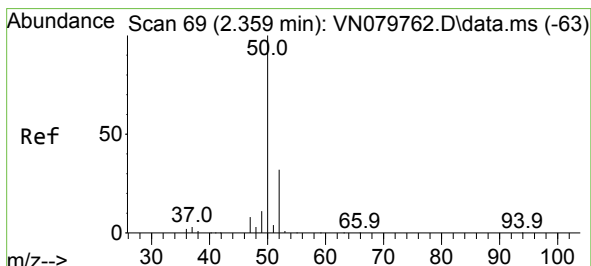
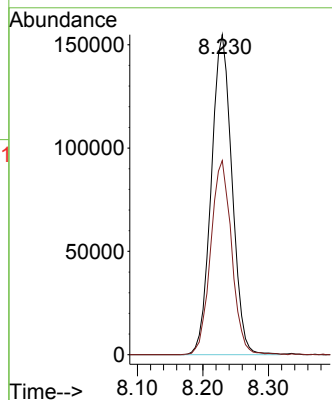
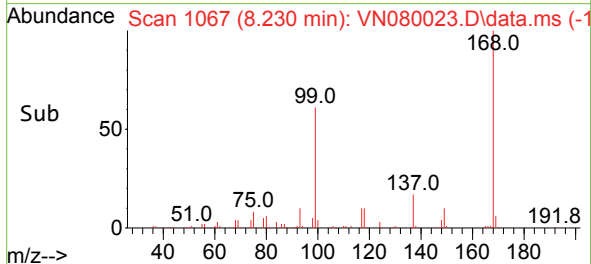


#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.230 min Scan# 10
Delta R.T. 0.001 min
Lab File: VN080023.D
Acq: 09 Nov 2023 15:35

Instrument :
MSVOA_N
ClientSampleId :

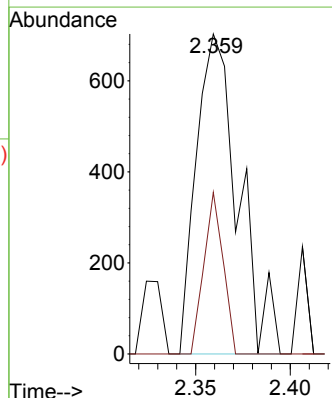
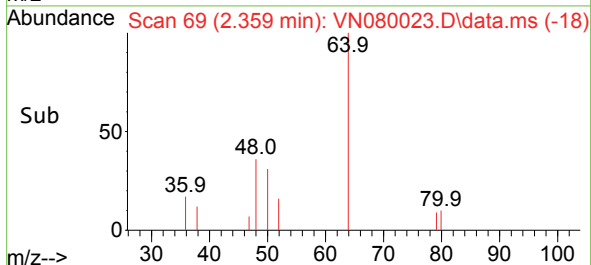
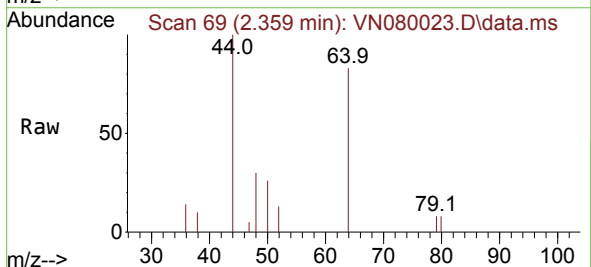


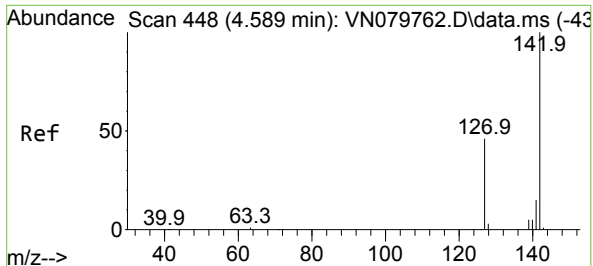
Tgt Ion:168 Resp: 339416
Ion Ratio Lower Upper
168 100
99 60.7 53.0 79.6



#3
Chloromethane
Concen: Below Cal
RT: 2.359 min Scan# 69
Delta R.T. 0.000 min
Lab File: VN080023.D
Acq: 09 Nov 2023 15:35

Tgt Ion: 50 Resp: 1085
Ion Ratio Lower Upper
50 100
52 50.5 26.5 39.7#

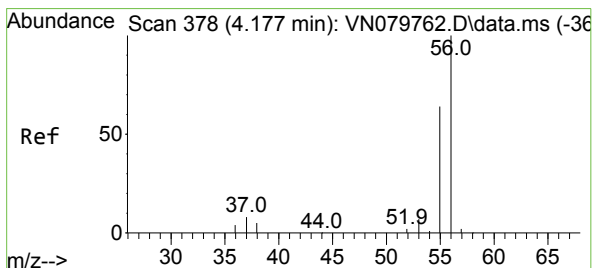
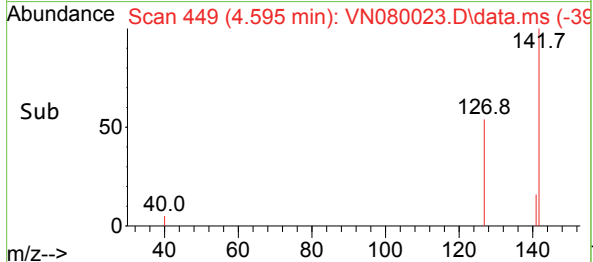
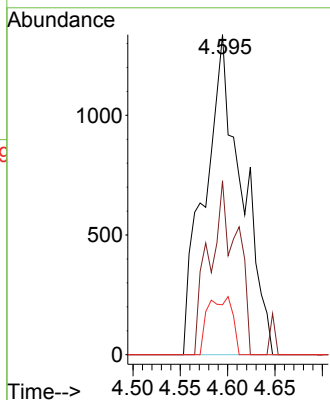
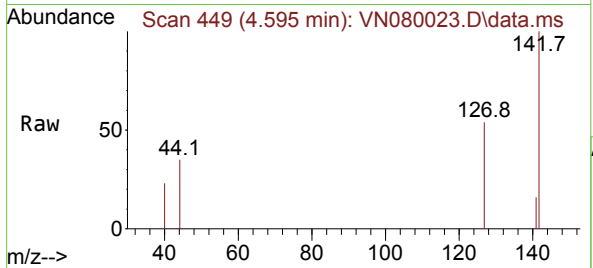




#10
Methyl Iodide
Concen: 0.823 ug/l
RT: 4.595 min Scan# 448
Delta R.T. 0.000 min
Lab File: VN080023.D
Acq: 09 Nov 2023 15:35

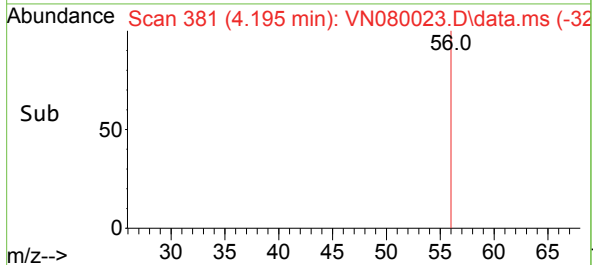
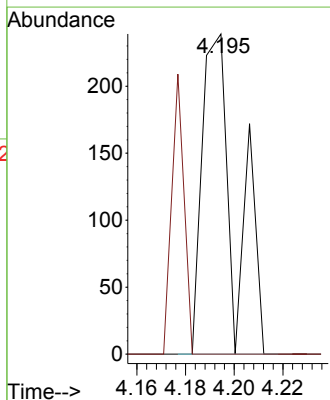
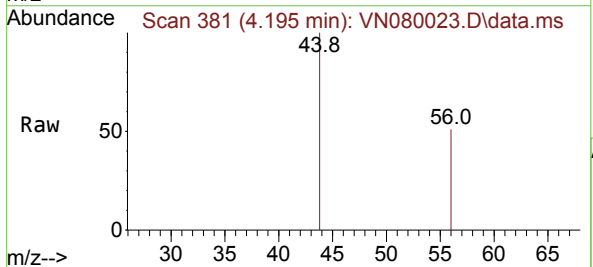
Instrument :
MSVOA_N
ClientSampleId :

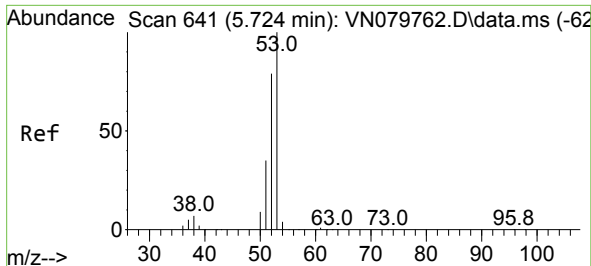
Tgt Ion:142 Resp: 3628
Ion Ratio Lower Upper
142 100
127 54.4 37.6 56.4
141 15.6 11.4 17.0



#13
Acrolein
Concen: 2.935 ug/l
RT: 4.195 min Scan# 381
Delta R.T. 0.012 min
Lab File: VN080023.D
Acq: 09 Nov 2023 15:35

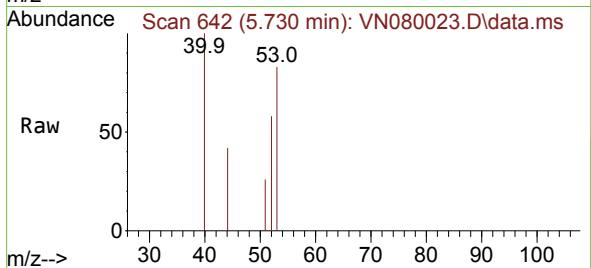
Tgt Ion: 56 Resp: 224
Ion Ratio Lower Upper
56 100
55 33.0 54.5 81.7#



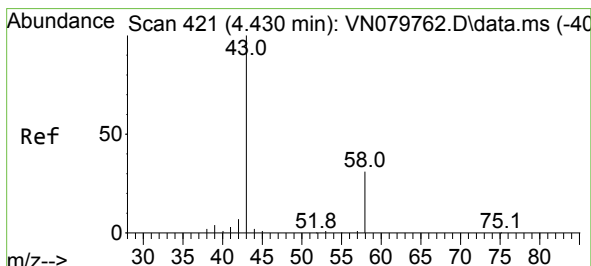
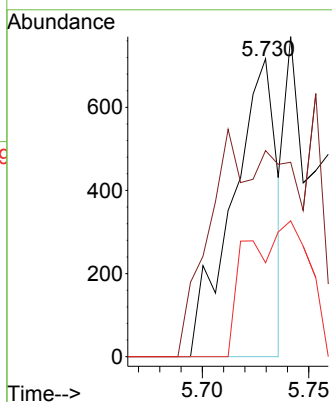
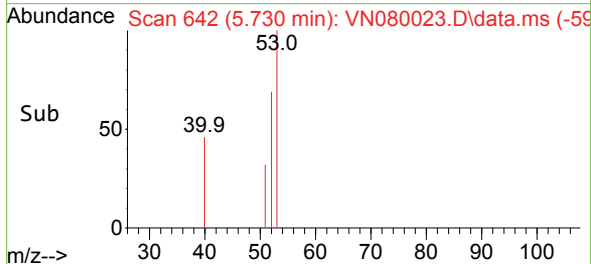


#15
Acrylonitrile
Concen: 0.504 ug/l
RT: 5.730 min Scan# 641
Delta R.T. 0.006 min
Lab File: VN080023.D
Acq: 09 Nov 2023 15:35

Instrument :
MSVOA_N
ClientSampleId :

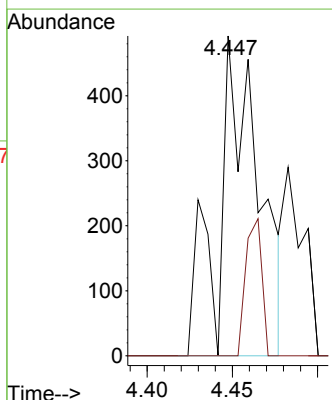
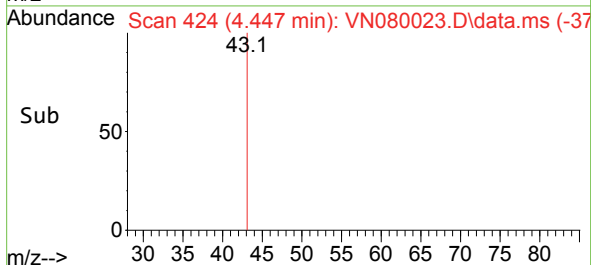
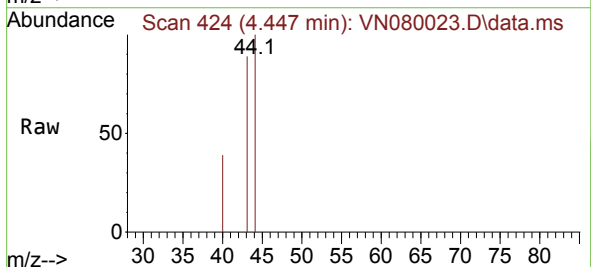


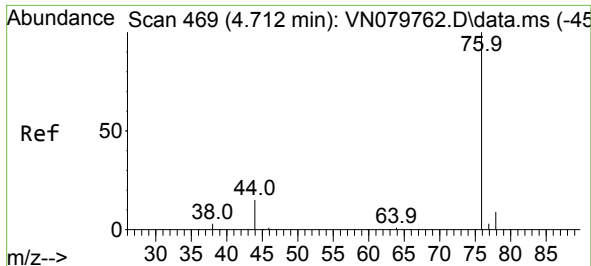
Tgt Ion: 53 Resp: 1036
Ion Ratio Lower Upper
53 100
52 74.5 65.3 97.9
51 26.6 28.9 43.3#



#16
Acetone
Concen: 0.448 ug/l
RT: 4.447 min Scan# 424
Delta R.T. 0.018 min
Lab File: VN080023.D
Acq: 09 Nov 2023 15:35

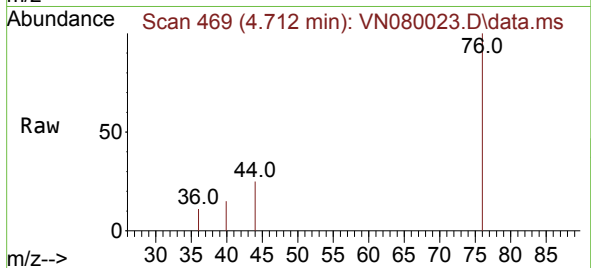
Tgt Ion: 43 Resp: 813
Ion Ratio Lower Upper
43 100
58 0.0 28.0 42.0#



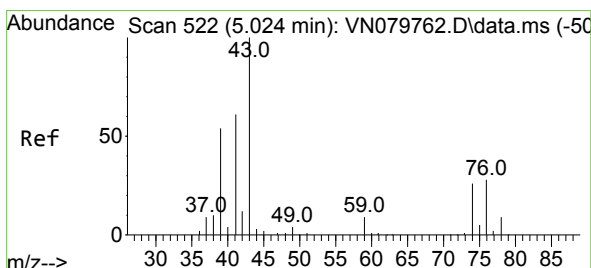
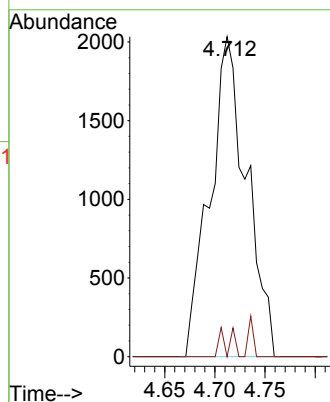
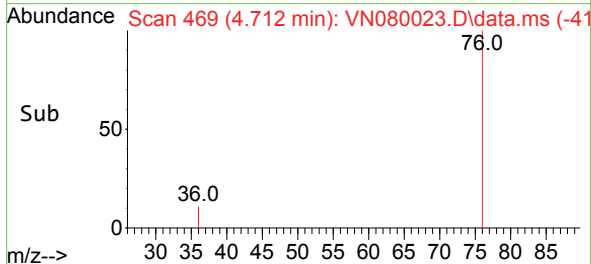


#17
Carbon Disulfide
Concen: 0.490 ug/l
RT: 4.712 min Scan# 41
Delta R.T. 0.000 min
Lab File: VN080023.D
Acq: 09 Nov 2023 15:35

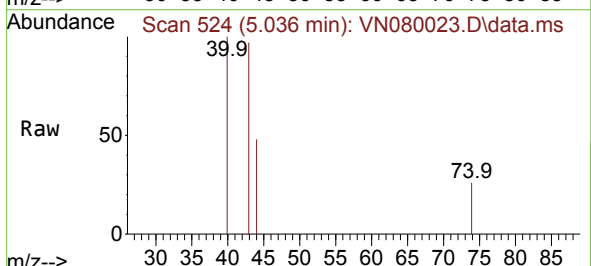
Instrument :
MSVOA_N
ClientSampleId :



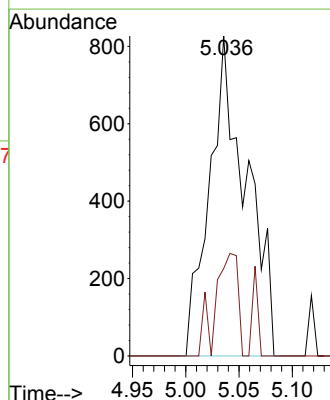
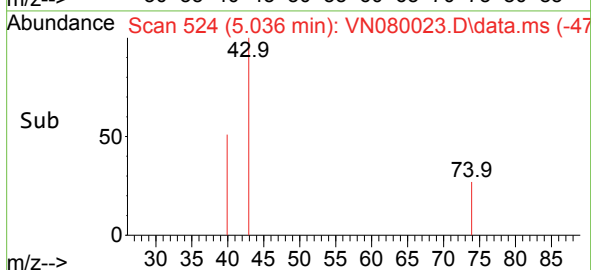
Tgt Ion: 76 Resp: 5163
Ion Ratio Lower Upper
76 100
78 0.0 7.4 11.0#

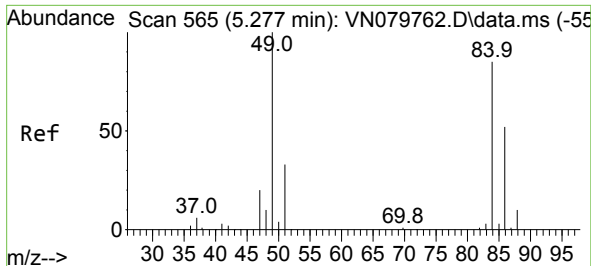


#18
Methyl Acetate
Concen: 0.229 ug/l
RT: 5.036 min Scan# 524
Delta R.T. 0.012 min
Lab File: VN080023.D
Acq: 09 Nov 2023 15:35



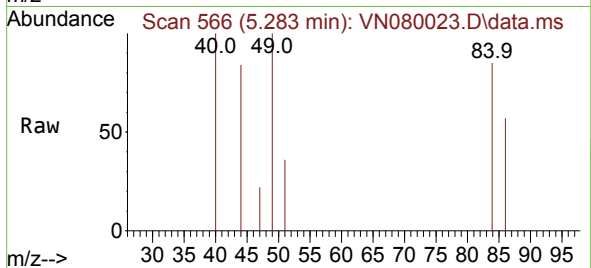
Tgt Ion: 43 Resp: 1992
Ion Ratio Lower Upper
43 100
74 19.7 26.2 39.4#





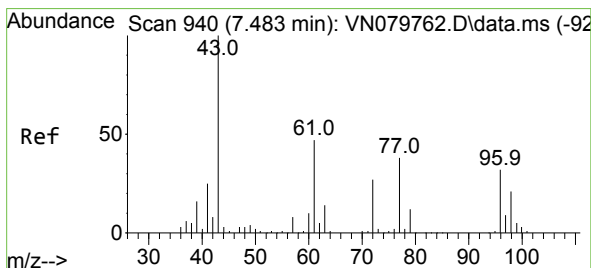
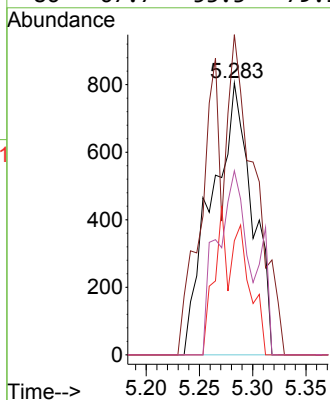
#20
Methylene Chloride
Concen: 0.465 ug/l
RT: 5.283 min Scan# 51
Delta R.T. 0.012 min
Lab File: VN080023.D
Acq: 09 Nov 2023 15:35

Instrument :
MSVOA_N
ClientSampleId :



Tgt Ion: 84 Resp: 2131

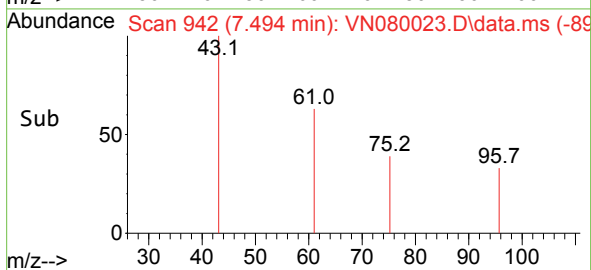
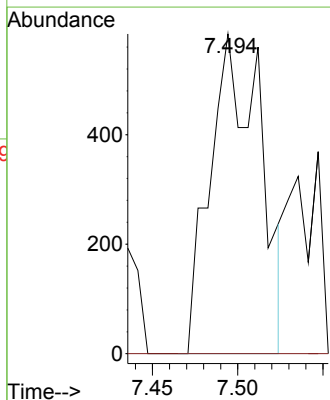
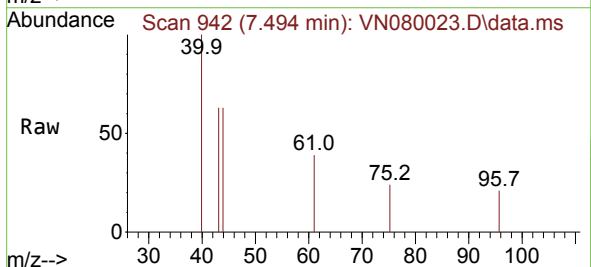
Ion	Ratio	Lower	Upper
84	100		
49	117.8	79.7	119.5
51	42.0	25.2	37.8#
86	67.7	53.3	79.9

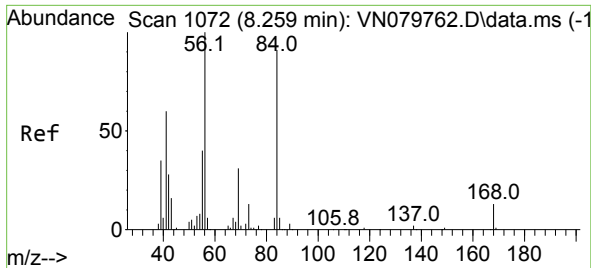


#25
2-Butanone
Concen: 0.449 ug/l
RT: 7.494 min Scan# 942
Delta R.T. 0.006 min
Lab File: VN080023.D
Acq: 09 Nov 2023 15:35

Tgt Ion: 43 Resp: 1193

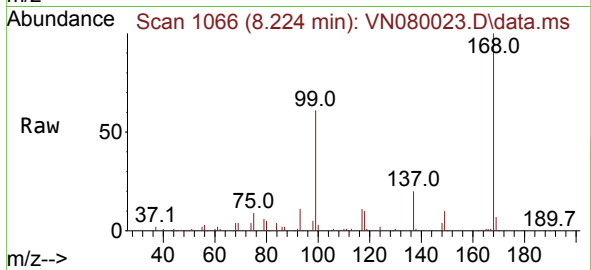
Ion	Ratio	Lower	Upper
43	100		
72	0.0	30.2	45.2#



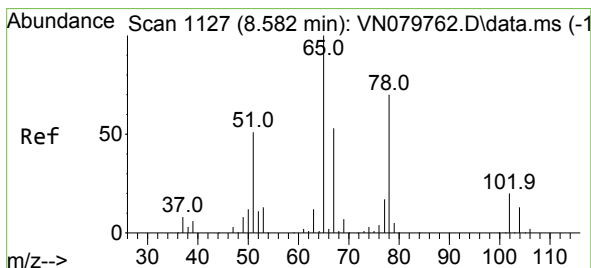
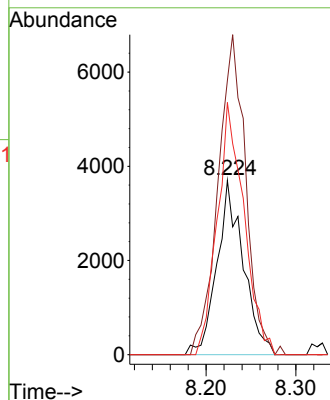
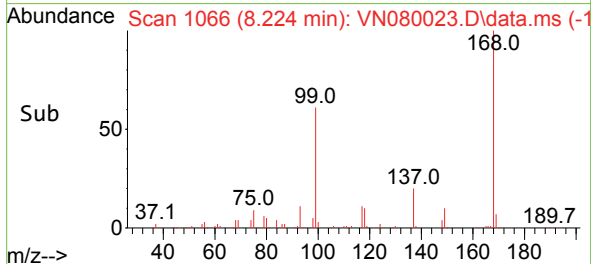


#31
Cyclohexane
Concen: 1.106 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.035 min
Lab File: VN080023.D
Acq: 09 Nov 2023 15:35

Instrument :
MSVOA_N
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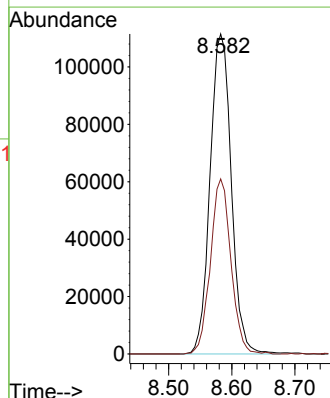
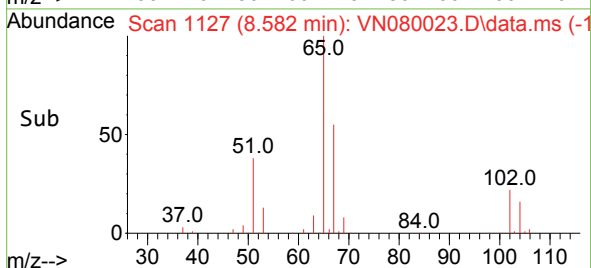
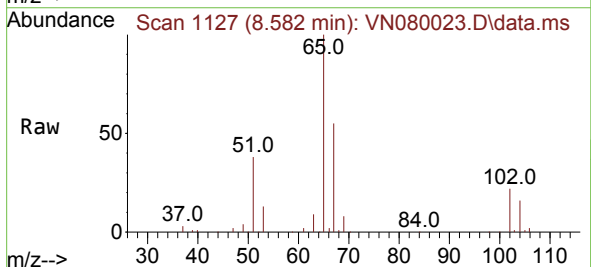


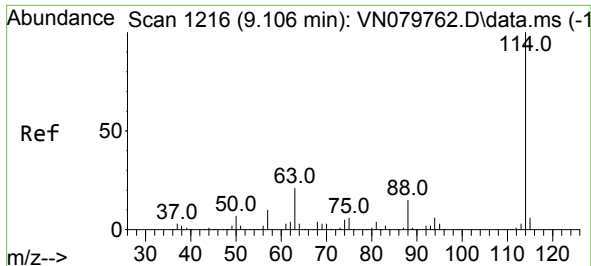
Tgt Ion: 56 Resp: 7556
Ion Ratio Lower Upper
56 100
69 157.4 26.8 40.2#
84 144.7 81.8 122.6#



#33
1,2-Dichloroethane-d4
Concen: 50.290 ug/l
RT: 8.582 min Scan# 1127
Delta R.T. 0.000 min
Lab File: VN080023.D
Acq: 09 Nov 2023 15:35

Tgt Ion: 65 Resp: 260053
Ion Ratio Lower Upper
65 100
67 52.9 0.0 106.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 11

Delta R.T. 0.000 min

Lab File: VN080023.D

Acq: 09 Nov 2023 15:35

Instrument :

MSVOA_N

ClientSampleId :

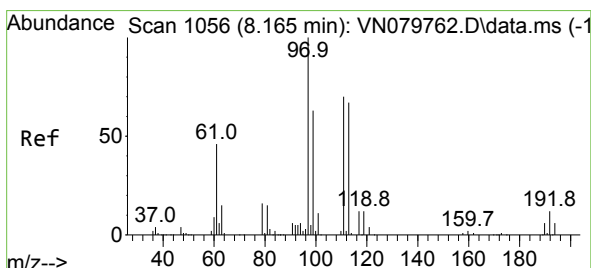
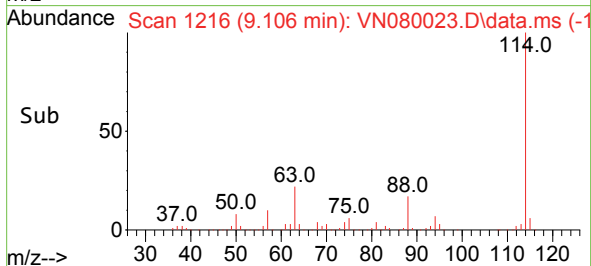
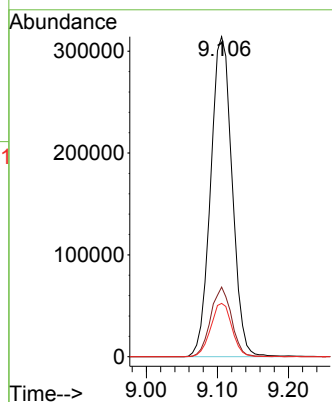
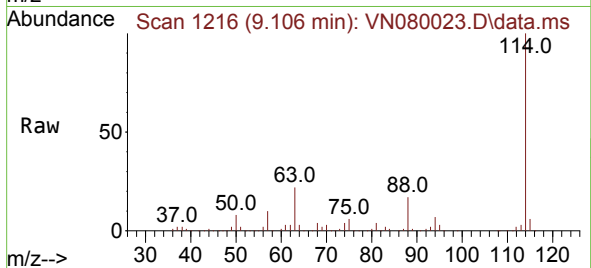
Tgt Ion:114 Resp: 658135

Ion Ratio Lower Upper

114 100

63 21.7 0.0 36.4

88 16.7 0.0 30.6



#35

Dibromofluoromethane

Concen: 49.817 ug/l

RT: 8.171 min Scan# 1057

Delta R.T. 0.000 min

Lab File: VN080023.D

Acq: 09 Nov 2023 15:35

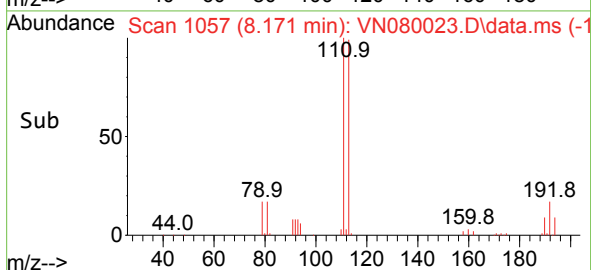
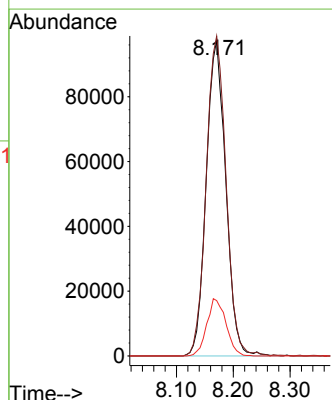
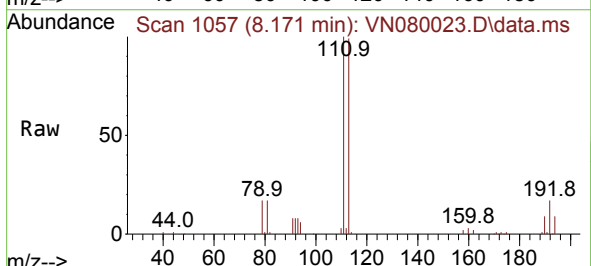
Tgt Ion:113 Resp: 232046

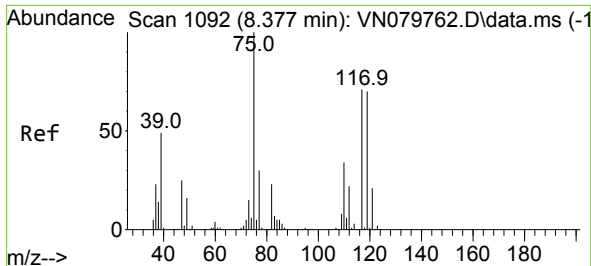
Ion Ratio Lower Upper

113 100

111 103.1 82.6 123.8

192 17.8 12.7 19.1





#36

1,1-Dichloropropene

Concen: 4.218 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.153 min

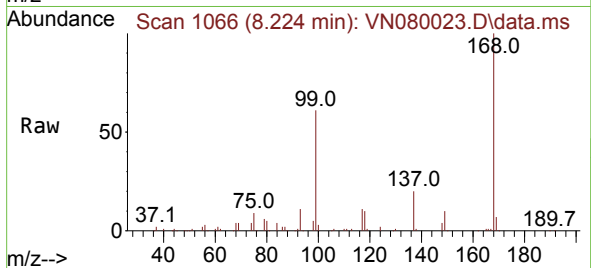
Lab File: VN080023.D

Acq: 09 Nov 2023 15:35

Instrument :

MSVOA_N

ClientSampleId :



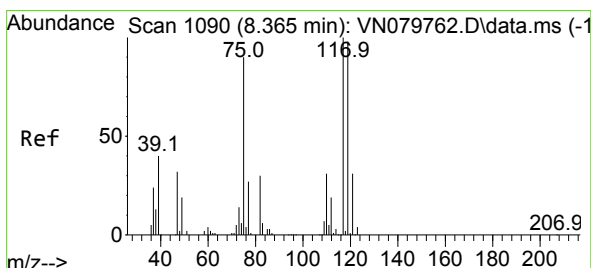
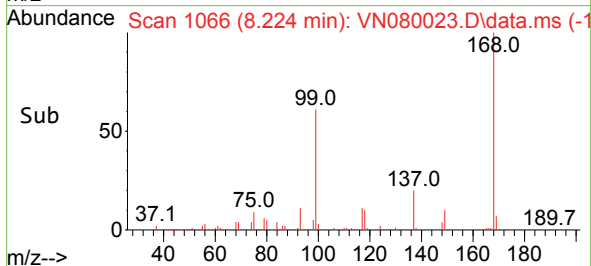
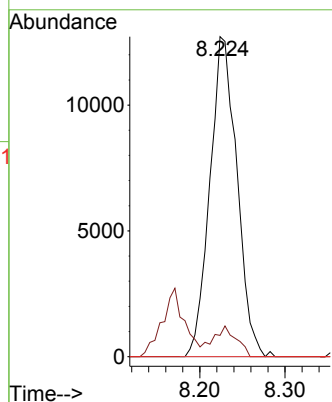
Tgt Ion: 75 Resp: 28052

Ion Ratio Lower Upper

75 100

110 8.3 19.1 57.3#

77 0.0 25.0 37.4#



#38

Carbon Tetrachloride

Concen: 5.311 ug/l

RT: 8.230 min Scan# 1067

Delta R.T. -0.129 min

Lab File: VN080023.D

Acq: 09 Nov 2023 15:35

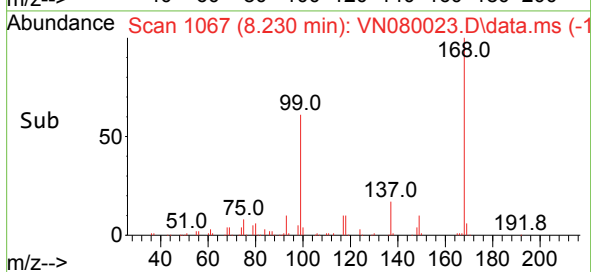
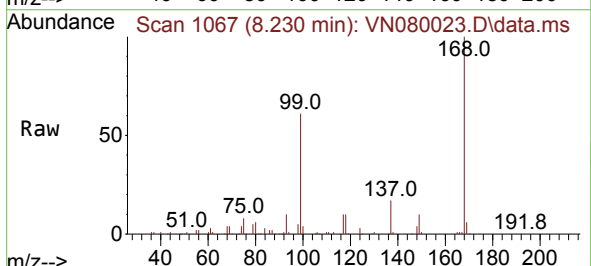
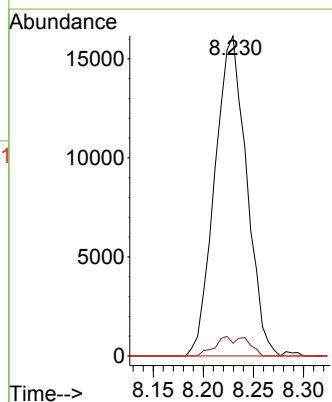
Tgt Ion: 117 Resp: 35598

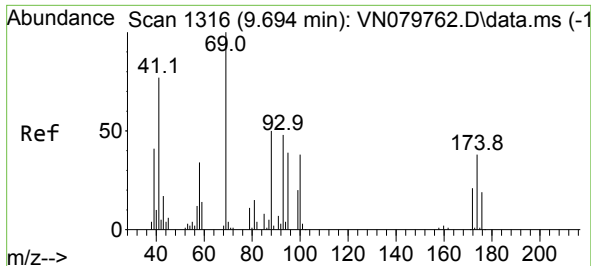
Ion Ratio Lower Upper

117 100

119 4.0 77.3 115.9#

121 0.0 23.3 34.9#





#49

1,4-Dioxane

Concen: 1.655 ug/l

RT: 9.706 min Scan# 1

Delta R.T. 0.012 min

Lab File: VN080023.D

Acq: 09 Nov 2023 15:35

Instrument :

MSVOA_N

ClientSampleId :

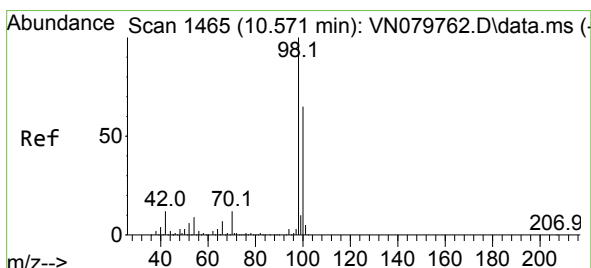
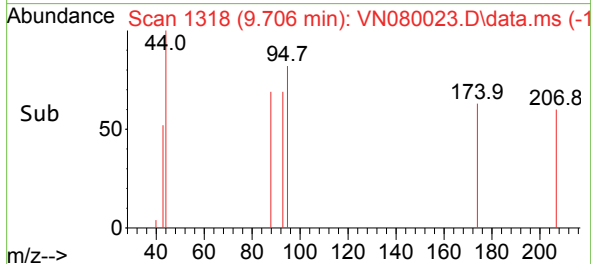
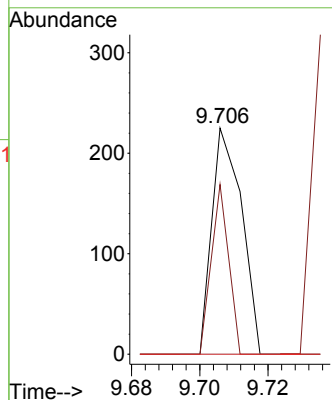
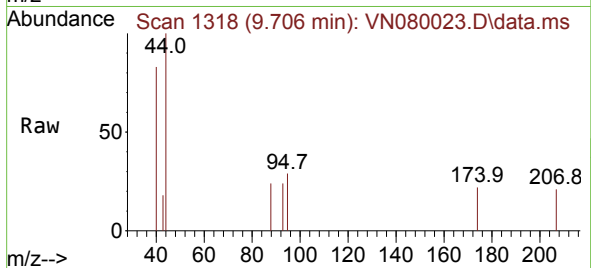
Tgt Ion: 88 Resp: 137

Ion Ratio Lower Upper

88 100

43 43.8 17.0 25.6#

58 0.0 47.0 70.4#



#50

Toluene-d8

Concen: 47.342 ug/l

RT: 10.571 min Scan# 1465

Delta R.T. 0.000 min

Lab File: VN080023.D

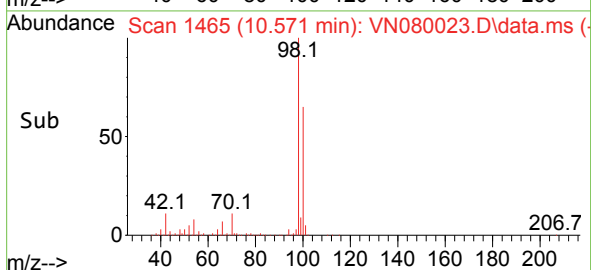
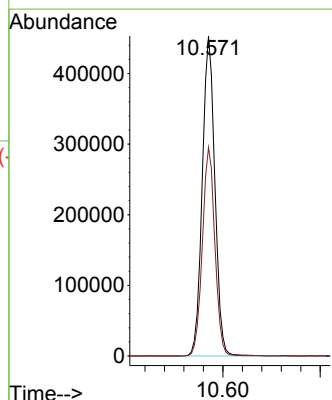
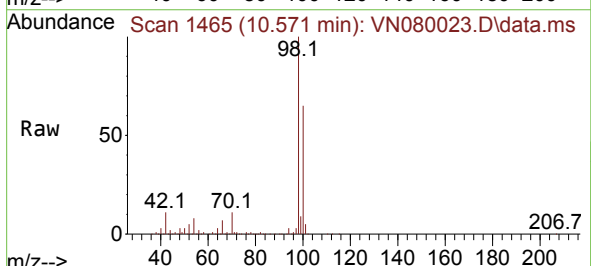
Acq: 09 Nov 2023 15:35

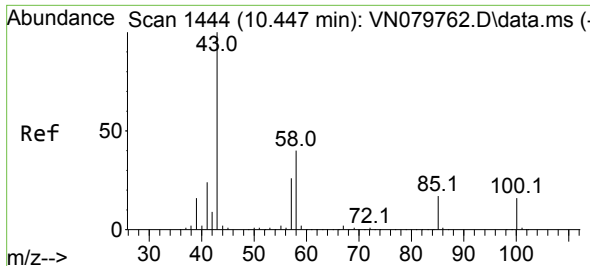
Tgt Ion: 98 Resp: 811805

Ion Ratio Lower Upper

98 100

100 64.7 52.0 78.0

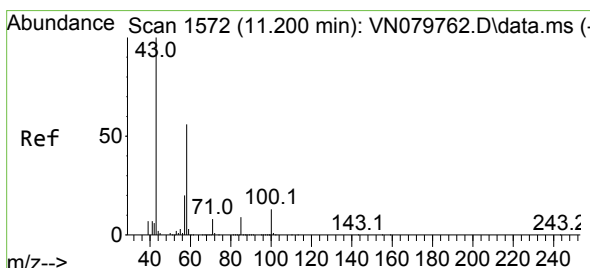
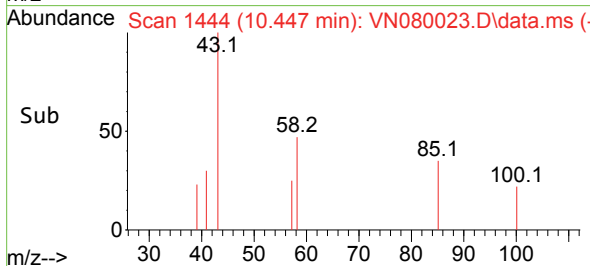
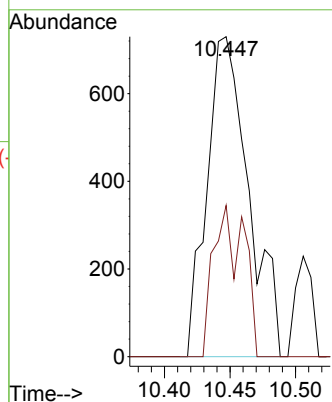
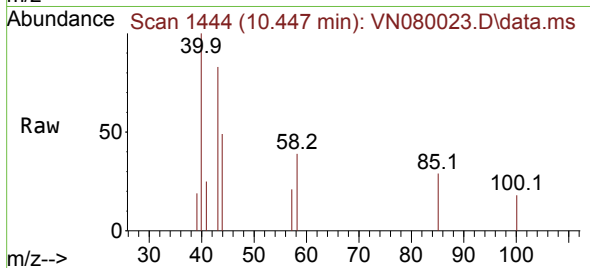




#51
4-Methyl-2-Pentanone
Concen: 0.269 ug/l
RT: 10.447 min Scan# 1444
Delta R.T. 0.000 min
Lab File: VN080023.D
Acq: 09 Nov 2023 15:35

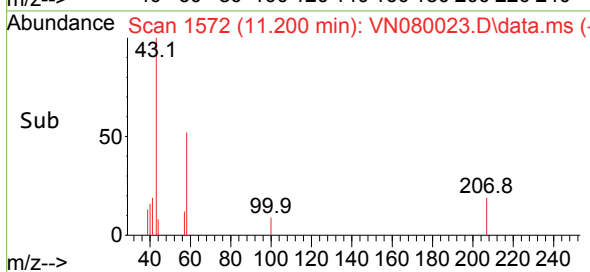
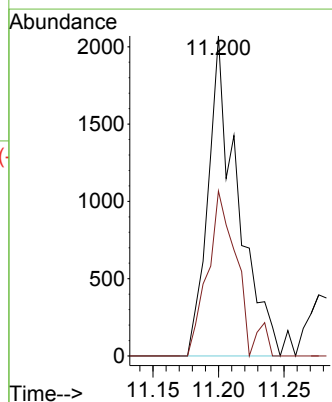
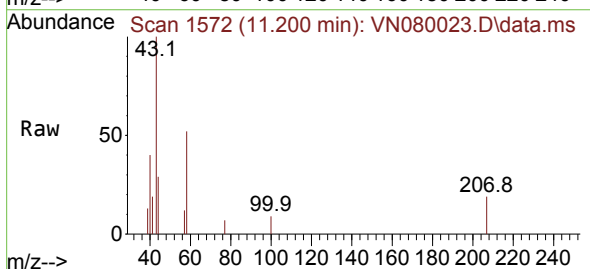
Instrument :
MSVOA_N
ClientSampleId :

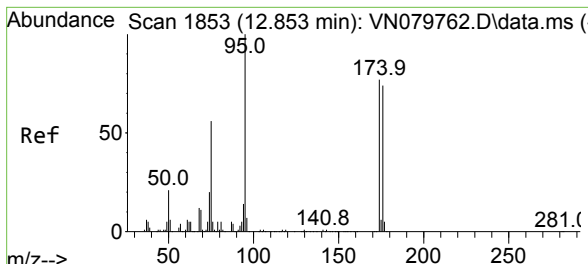
Tgt Ion: 43 Resp: 1617
Ion Ratio Lower Upper
43 100
58 34.5 36.6 54.8#



#59
2-Hexanone
Concen: 0.702 ug/l
RT: 11.200 min Scan# 1572
Delta R.T. 0.000 min
Lab File: VN080023.D
Acq: 09 Nov 2023 15:35

Tgt Ion: 43 Resp: 3233
Ion Ratio Lower Upper
43 100
58 52.0 31.7 95.1

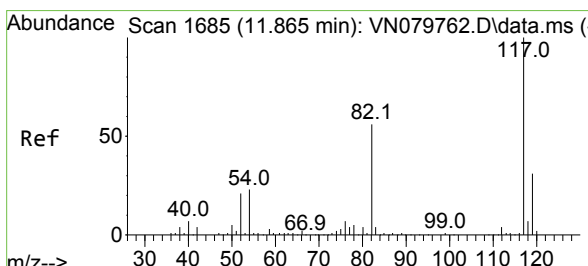
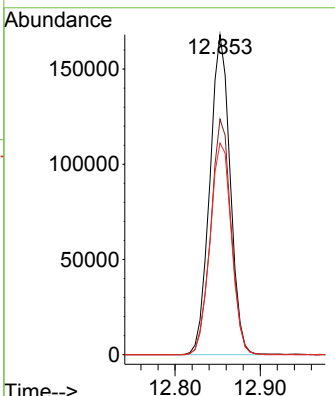
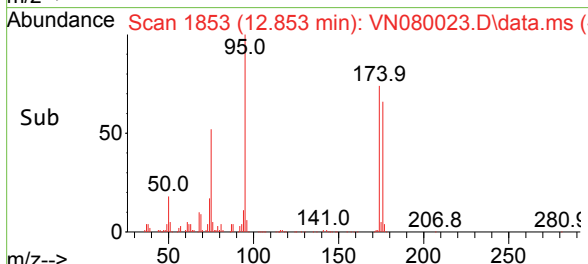
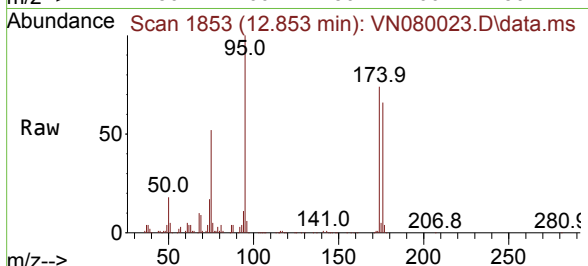




#62
 4-Bromofluorobenzene
 Concen: 48.905 ug/l
 RT: 12.853 min Scan# 1853
 Delta R.T. 0.000 min
 Lab File: VN080023.D
 Acq: 09 Nov 2023 15:35

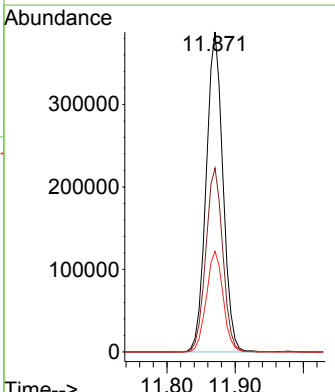
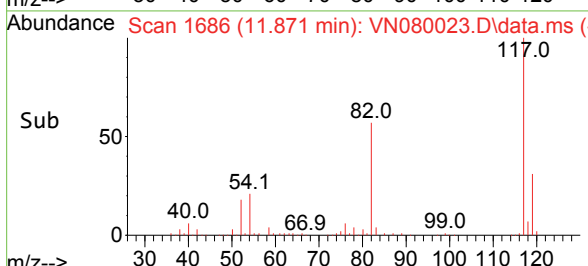
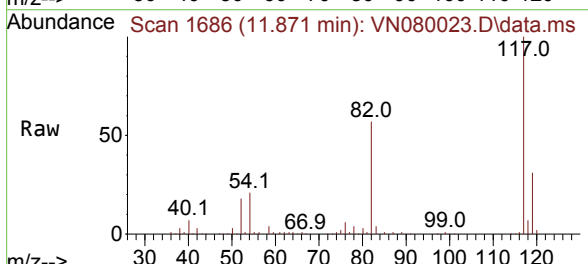
Instrument :
 MSVOA_N
 ClientSampleId :

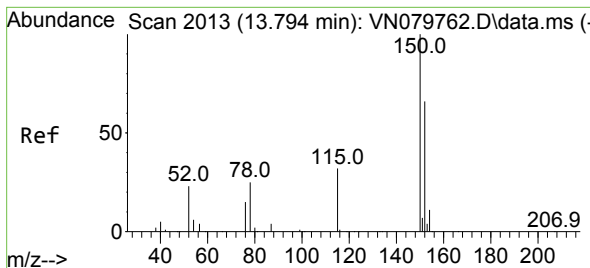
Tgt Ion:	95	Resp:	278125
Ion	Ratio	Lower	Upper
95	100		
174	74.1	0.0	143.8
176	69.5	0.0	135.8



#63
 Chlorobenzene-d5
 Concen: 50.000 ug/l
 RT: 11.871 min Scan# 1686
 Delta R.T. 0.000 min
 Lab File: VN080023.D
 Acq: 09 Nov 2023 15:35

Tgt Ion:	117	Resp:	662156
Ion	Ratio	Lower	Upper
117	100		
82	57.4	44.0	66.0
119	31.4	25.6	38.4





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.800 min Scan# 2013

Delta R.T. 0.006 min

Lab File: VN080023.D

Acq: 09 Nov 2023 15:35

Instrument :

MSVOA_N

ClientSampleId :

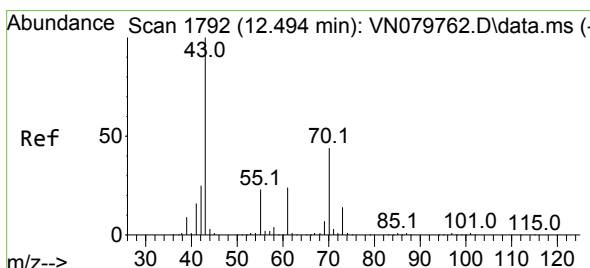
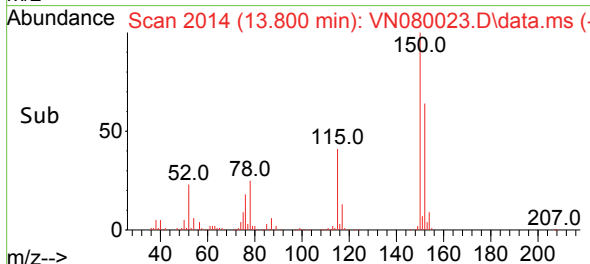
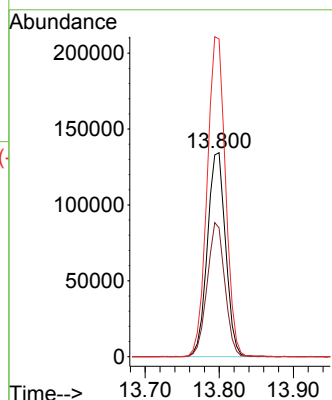
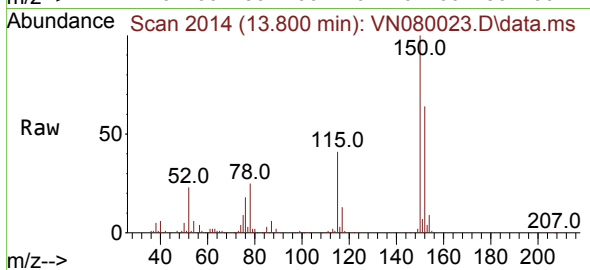
Tgt Ion:152 Resp: 229600

Ion Ratio Lower Upper

152 100

115 63.9 32.3 96.8

150 158.0 0.0 355.8



#74

N-ethyl acetate

Concen: 0.206 ug/l

RT: 12.506 min Scan# 1794

Delta R.T. 0.012 min

Lab File: VN080023.D

Acq: 09 Nov 2023 15:35

Tgt Ion: 43 Resp: 1567

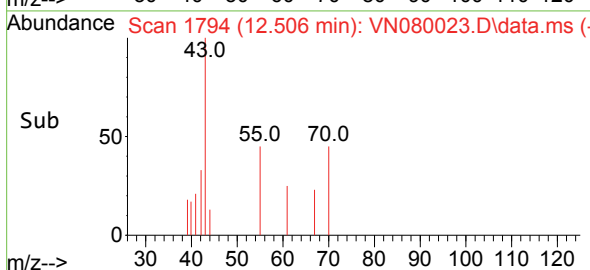
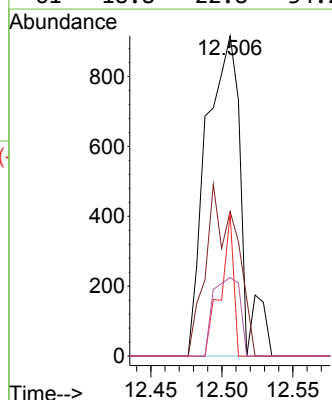
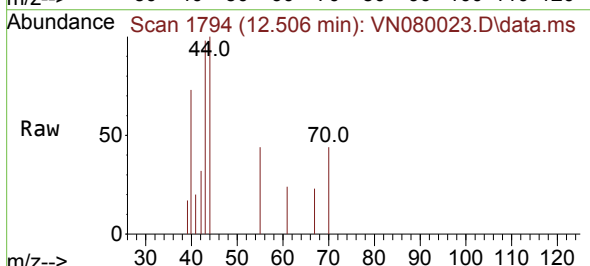
Ion Ratio Lower Upper

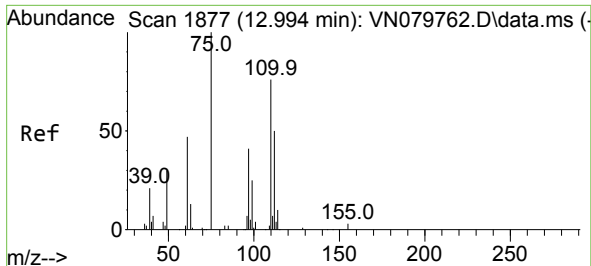
43 100

70 46.7 43.4 65.2

55 16.5 21.4 32.0#

61 18.8 22.8 34.2#

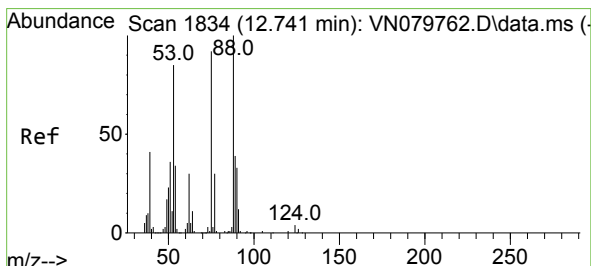
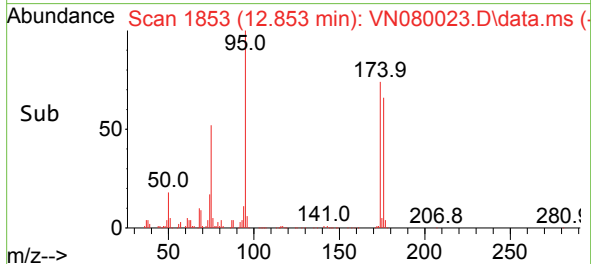
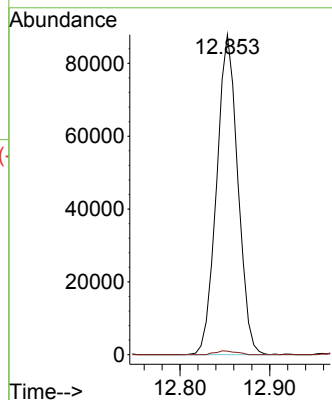
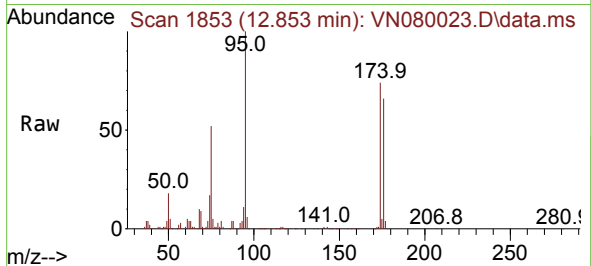




#76
1,2,3-Trichloropropane
Concen: 26.741 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. -0.141 min
Lab File: VN080023.D
Acq: 09 Nov 2023 15:35

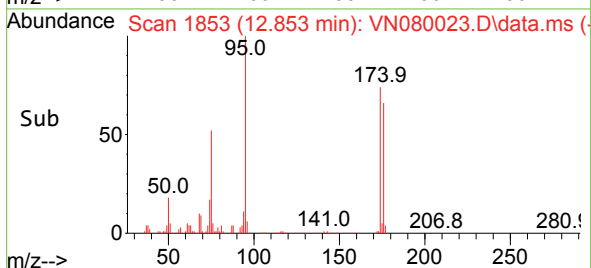
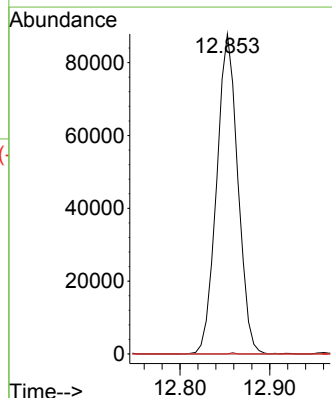
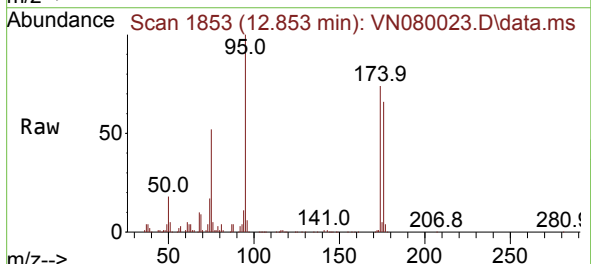
Instrument :
MSVOA_N
ClientSampleId :

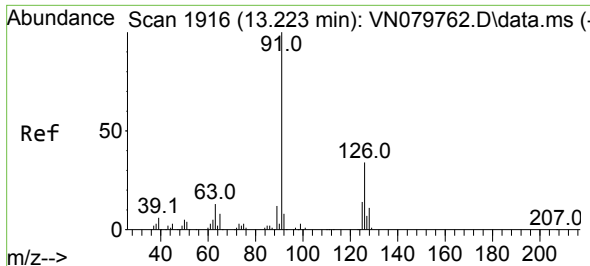
Tgt Ion: 75 Resp: 144141
Ion Ratio Lower Upper
75 100
77 1.2 84.5 253.5#



#81
trans-1,4-Dichloro-2-butene
Concen: 72.755 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.118 min
Lab File: VN080023.D
Acq: 09 Nov 2023 15:35

Tgt Ion: 75 Resp: 144141
Ion Ratio Lower Upper
75 100
53 0.1 67.4 101.2#
89 0.0 38.8 58.2#

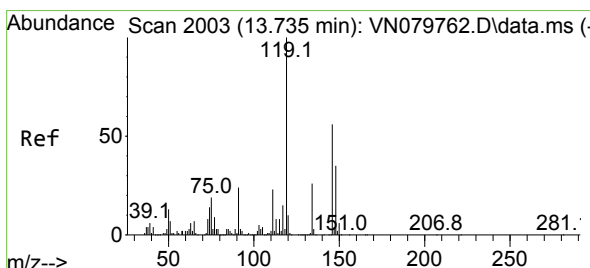
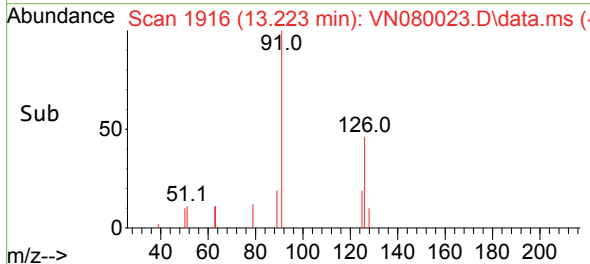
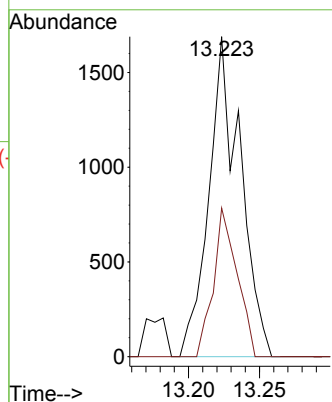
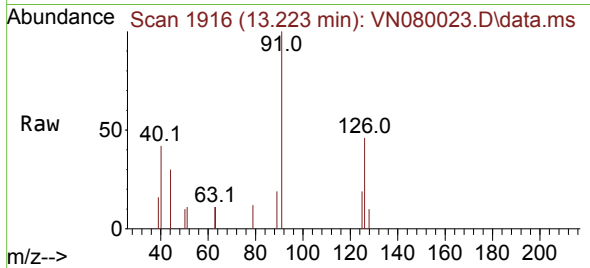




#82
4-Chlorotoluene
Concen: 0.205 ug/l
RT: 13.223 min Scan# 1916
Delta R.T. 0.000 min
Lab File: VN080023.D
Acq: 09 Nov 2023 15:35

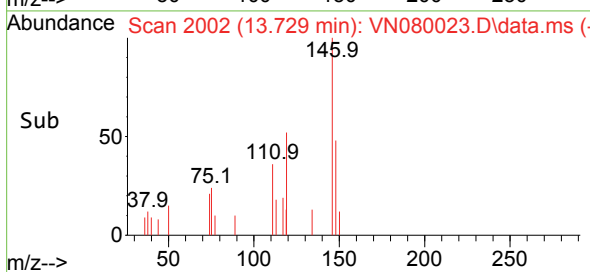
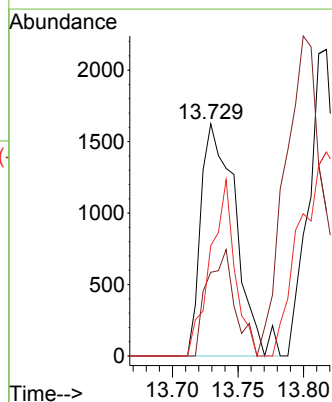
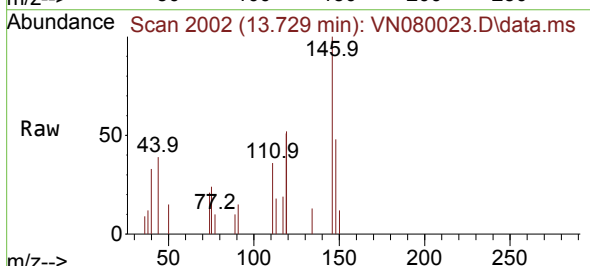
Instrument :
MSVOA_N
ClientSampleId :

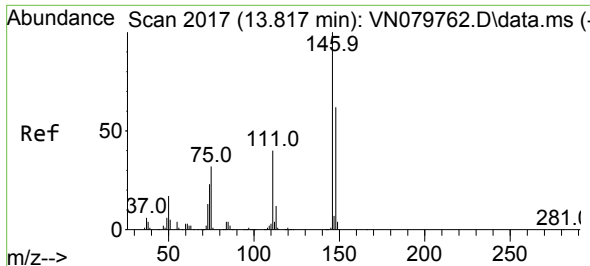
Tgt Ion: 91 Resp: 2601
Ion Ratio Lower Upper
91 100
126 34.8 16.7 50.0



#87
1,3-Dichlorobenzene
Concen: 0.380 ug/l
RT: 13.729 min Scan# 2002
Delta R.T. -0.006 min
Lab File: VN080023.D
Acq: 09 Nov 2023 15:35

Tgt Ion: 146 Resp: 3017
Ion Ratio Lower Upper
146 100
111 36.5 22.1 66.3
148 53.2 32.0 96.0

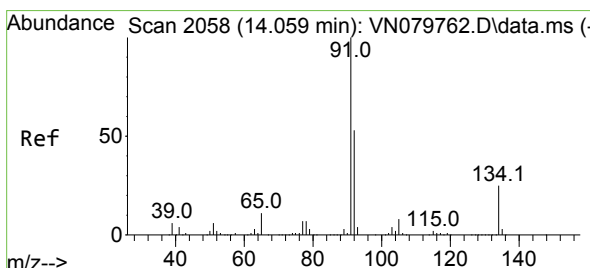
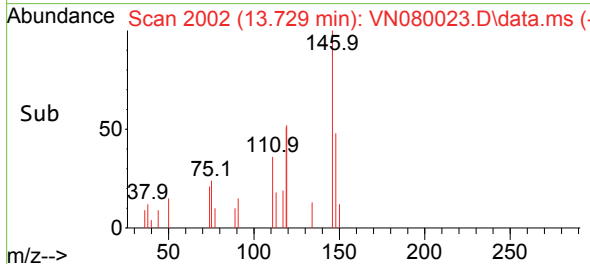
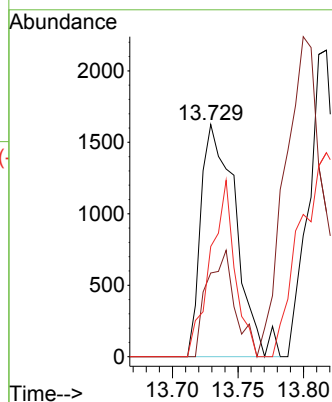
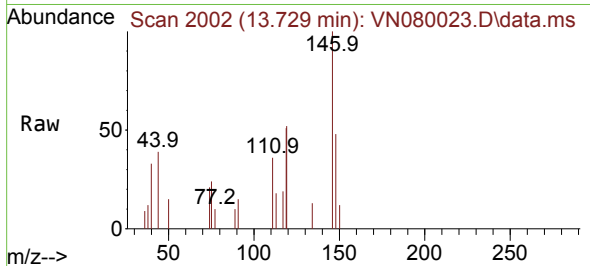




#88
1,4-Dichlorobenzene
Concen: 0.375 ug/l
RT: 13.729 min Scan# 2017
Delta R.T. -0.088 min
Lab File: VN080023.D
Acq: 09 Nov 2023 15:35

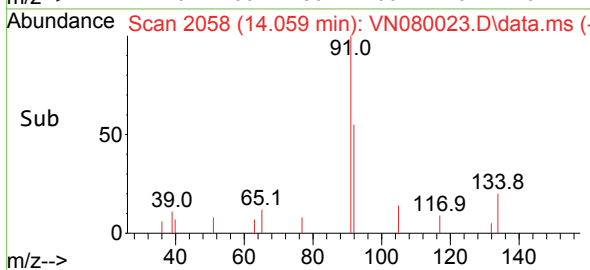
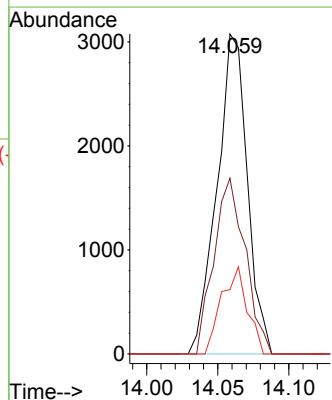
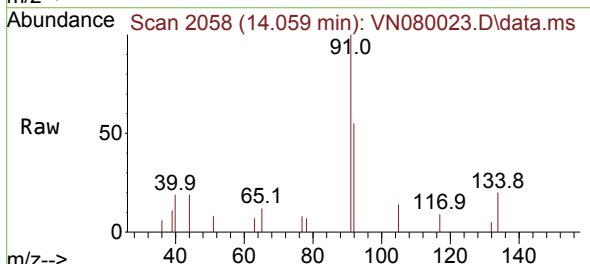
Instrument :
MSVOA_N
ClientSampleId :

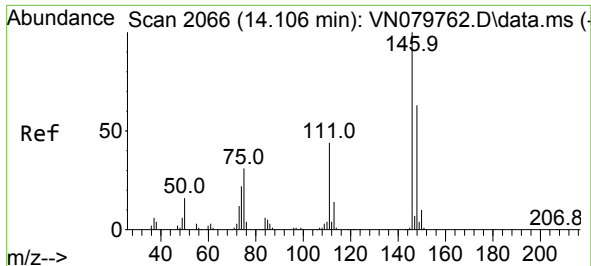
Tgt Ion	Ratio	Lower	Upper
146	100		
111	36.5	20.6	61.8
148	53.2	31.6	94.8



#89
n-Butylbenzene
Concen: 0.423 ug/l
RT: 14.059 min Scan# 2058
Delta R.T. 0.000 min
Lab File: VN080023.D
Acq: 09 Nov 2023 15:35

Tgt Ion	Ratio	Lower	Upper
91	100		
92	56.8	26.4	79.0
134	23.2	12.6	37.6





#91

1,2-Dichlorobenzene

Concen: 0.313 ug/l

RT: 14.106 min Scan# 2066

Delta R.T. 0.000 min

Lab File: VN080023.D

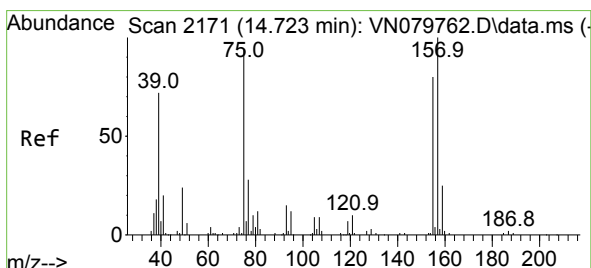
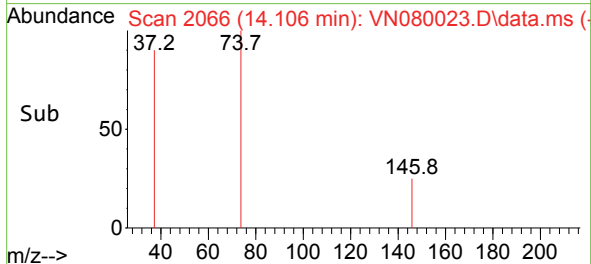
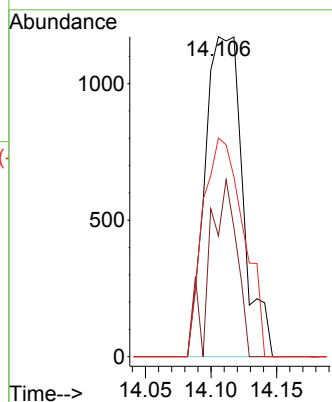
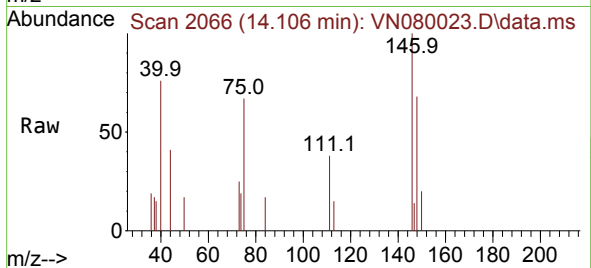
Acq: 09 Nov 2023 15:35

Instrument :

MSVOA_N

ClientSampleId :

Tgt Ion:	146	Resp:	2344
Ion	Ratio	Lower	Upper
146	100		
111	40.2	22.0	66.0
148	73.7	31.8	95.3



#92

1,2-Dibromo-3-Chloropropane

Concen: 0.402 ug/l

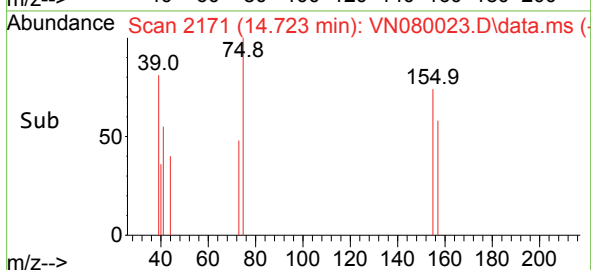
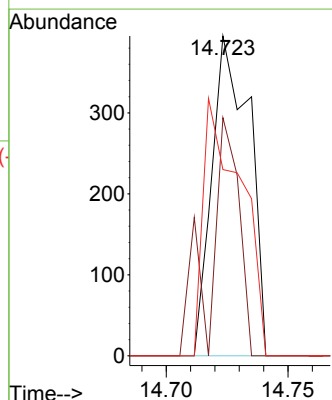
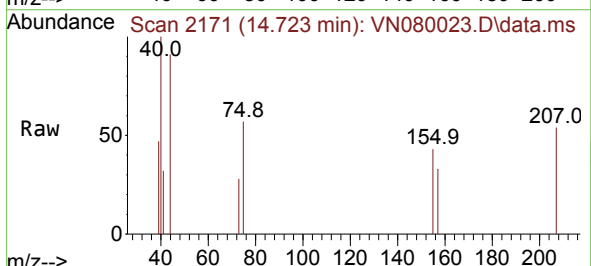
RT: 14.723 min Scan# 2171

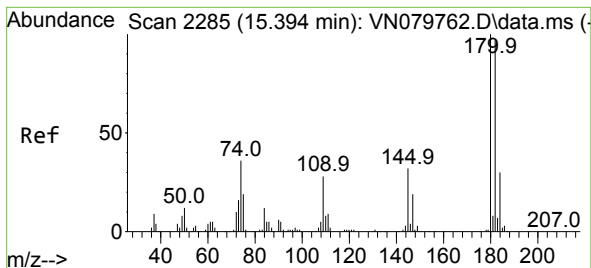
Delta R.T. 0.000 min

Lab File: VN080023.D

Acq: 09 Nov 2023 15:35

Tgt Ion:	75	Resp:	421
Ion	Ratio	Lower	Upper
75	100		
155	57.7	39.1	117.2
157	81.2	50.3	150.9





#93

1,2,4-Trichlorobenzene

Concen: 1.008 ug/l

RT: 15.400 min Scan# 21

Delta R.T. 0.006 min

Lab File: VN080023.D

Acq: 09 Nov 2023 15:35

Instrument :

MSVOA_N

ClientSampleId :

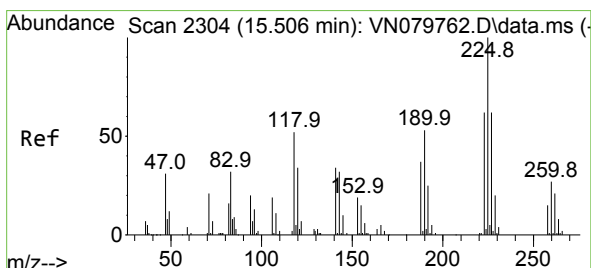
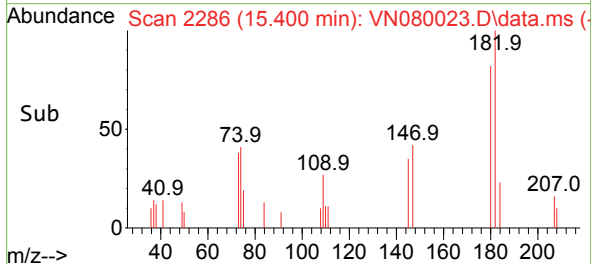
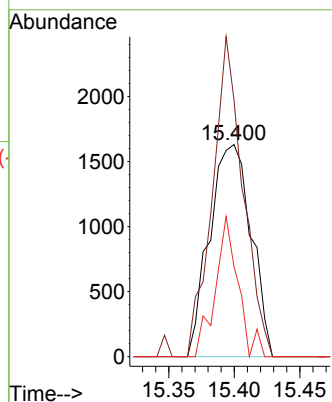
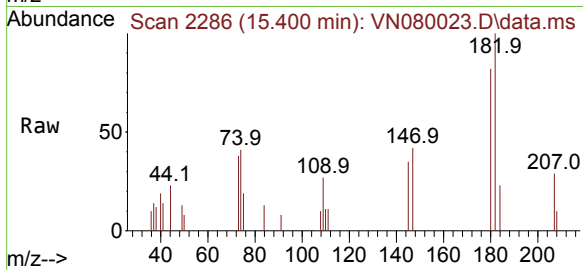
Tgt Ion:180 Resp: 3591

Ion Ratio Lower Upper

180 100

182 111.3 46.1 138.2

145 36.1 16.6 49.8



#94

Hexachlorobutadiene

Concen: 2.069 ug/l

RT: 15.506 min Scan# 2304

Delta R.T. 0.000 min

Lab File: VN080023.D

Acq: 09 Nov 2023 15:35

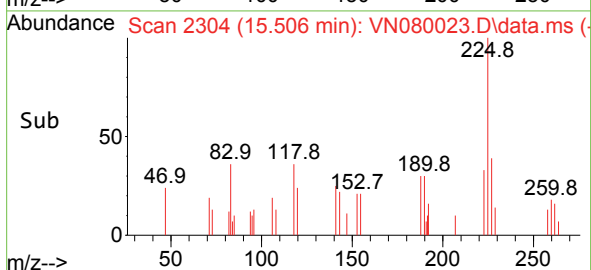
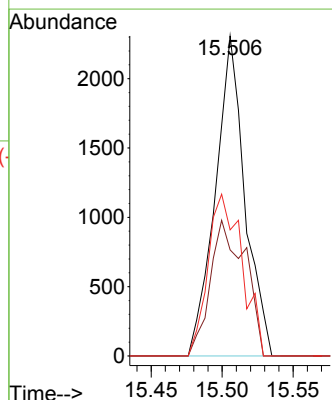
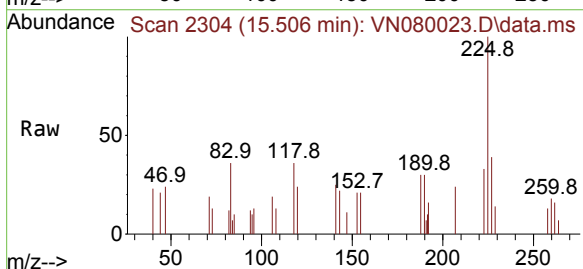
Tgt Ion:225 Resp: 3341

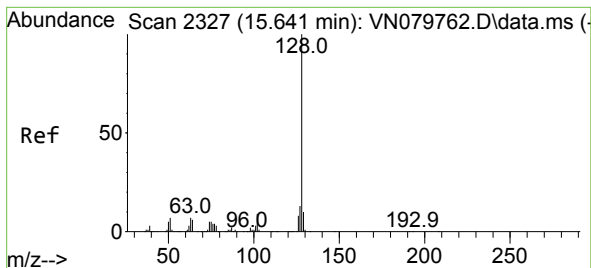
Ion Ratio Lower Upper

225 100

223 50.1 31.3 93.8

227 58.0 31.9 95.9





#95

Naphthalene

Concen: 1.270 ug/l

RT: 15.647 min Scan# 2327

Delta R.T. 0.006 min

Lab File: VN080023.D

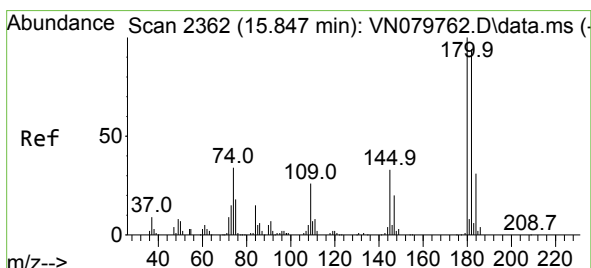
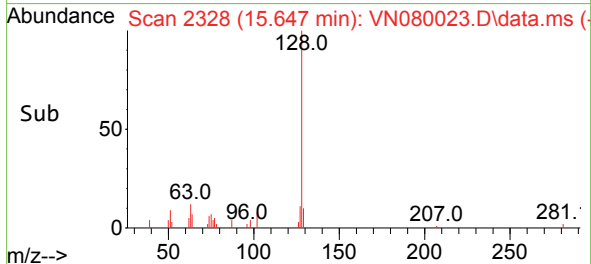
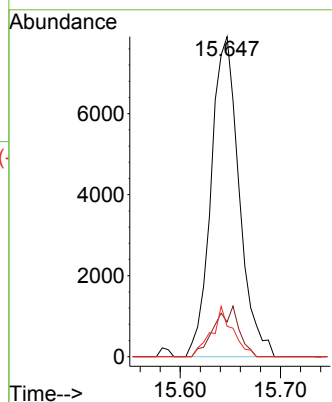
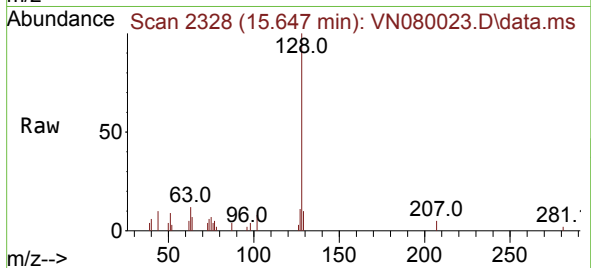
Acq: 09 Nov 2023 15:35

Instrument :

MSVOA_N

ClientSampleId :

Tgt Ion:128	Resp:	15341
Ion Ratio	Lower	Upper
128	100	
127	14.0	10.0 15.0
129	11.9	8.7 13.1



#96

1,2,3-Trichlorobenzene

Concen: 1.316 ug/l

RT: 15.841 min Scan# 2361

Delta R.T. 0.000 min

Lab File: VN080023.D

Acq: 09 Nov 2023 15:35

Tgt Ion:180	Resp:	4597
Ion Ratio	Lower	Upper
180	100	
182	80.9	46.2 138.6
145	31.3	17.5 52.6

