

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN110423\
 Data File : VN079894.D
 Acq On : 04 Nov 2023 15:41
 Operator : JC\MD
 Sample : 05222-05DL 5X
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

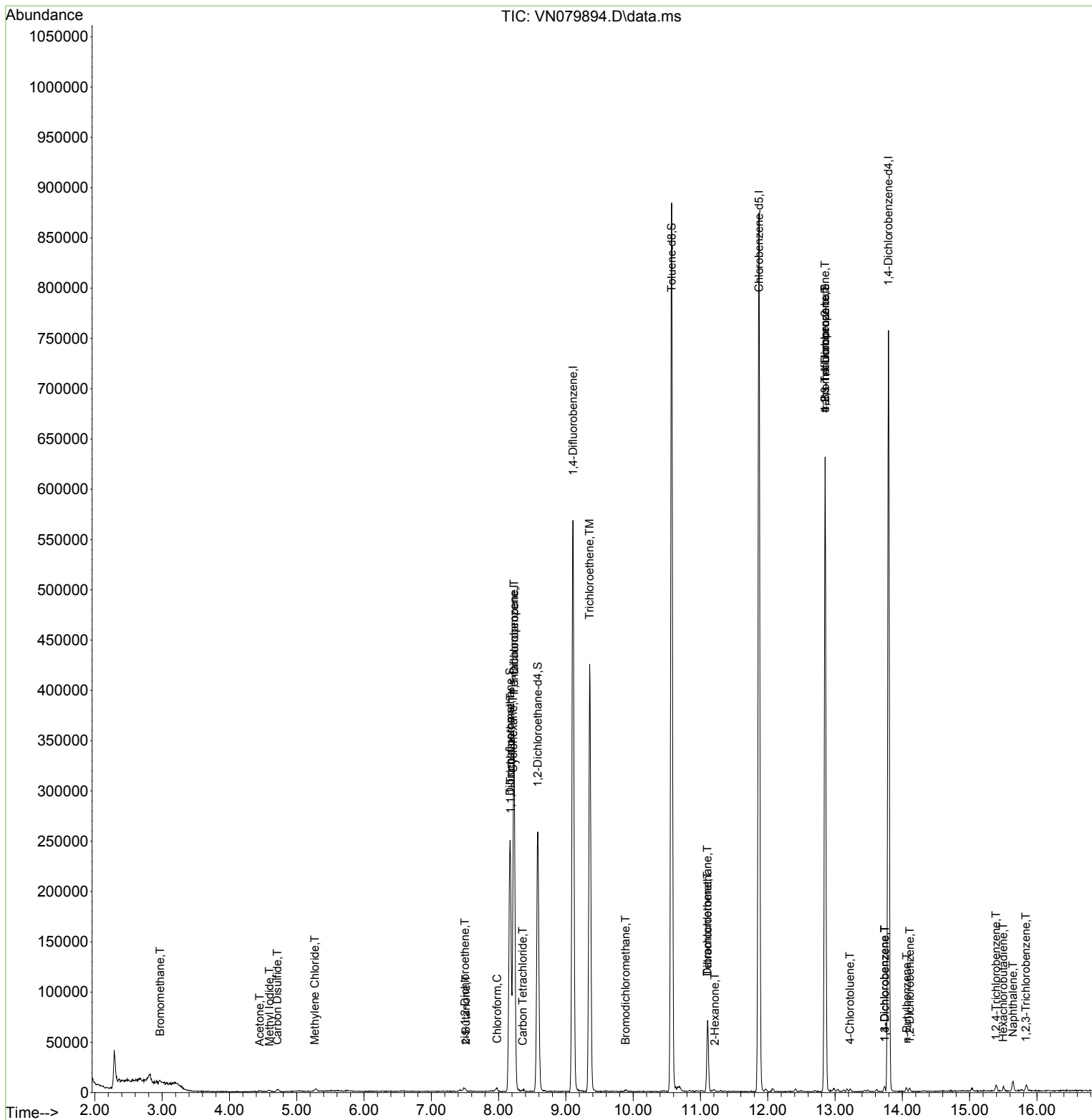
Quant Time: Nov 06 02:14:52 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N110123W.M
 Quant Title : SW846 8260
 QLast Update : Thu Nov 02 05:49:08 2023
 Response via : Initial Calibration

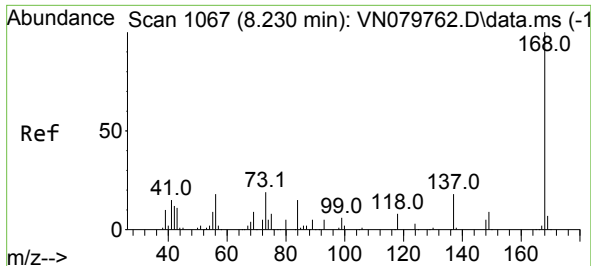
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	8.230	168	239540	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	478176	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.871	117	493340	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	191665	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.583	65	211276	57.892	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	= 115.780%	
35) Dibromofluoromethane	8.171	113	172279	50.905	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 101.800%	
50) Toluene-d8	10.571	98	593125	47.606	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	= 95.220%	
62) 4-Bromofluorobenzene	12.853	95	203787	49.319	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	= 98.640%	
Target Compounds						
					Qvalue	
3) Chloromethane	2.365	50	1704	Below Cal		91
5) Bromomethane	2.971	94	1384	0.603	ug/l #	62
10) Methyl Iodide	4.595	142	2219	0.714	ug/l #	83
16) Acetone	4.448	43	1808	1.410	ug/l #	80
17) Carbon Disulfide	4.712	76	3678	0.495	ug/l #	75
20) Methylene Chloride	5.271	84	1882	0.582	ug/l #	84
25) 2-Butanone	7.512	43	716	0.381	ug/l #	37
27) cis-1,2-Dichloroethene	7.500	96	2217	0.645	ug/l	67
30) Chloroform	7.977	83	3503	0.580	ug/l	93
31) Cyclohexane	8.218	56	6504	1.349	ug/l #	45
32) 1,1,1-Trichloroethane	8.177	97	8169	1.659	ug/l #	50
36) 1,1-Dichloropropene	8.230	75	22562	4.669	ug/l #	48
38) Carbon Tetrachloride	8.359	117	1083	0.222	ug/l #	69
44) Trichloroethene	9.353	130	147820	41.159	ug/l	99
47) Bromodichloromethane	9.888	83	1623	0.301	ug/l #	84
59) 2-Hexanone	11.212	43	1515	0.453	ug/l	76
60) Dibromochloromethane	11.106	129	15439	4.179	ug/l #	11
64) Tetrachloroethene	11.106	164	15073	4.717	ug/l	97
76) 1,2,3-Trichloropropane	12.853	75	111985	24.887	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.853	75	111985	67.712	ug/l #	15
82) 4-Chlorotoluene	13.223	91	2155	0.204	ug/l	94
87) 1,3-Dichlorobenzene	13.741	146	1892	0.286	ug/l	94
88) 1,4-Dichlorobenzene	13.741	146	1892	0.281	ug/l	97
89) n-Butylbenzene	14.065	91	2313	0.257	ug/l	83
91) 1,2-Dichlorobenzene	14.112	146	1932	0.309	ug/l	80
93) 1,2,4-Trichlorobenzene	15.394	180	2270	0.763	ug/l	97
94) Hexachlorobutadiene	15.500	225	987	0.732	ug/l	90
95) Naphthalene	15.647	128	9281	0.920	ug/l #	96
96) 1,2,3-Trichlorobenzene	15.835	180	2662	0.913	ug/l	90

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

Quant Time: Nov 06 02:14:52 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

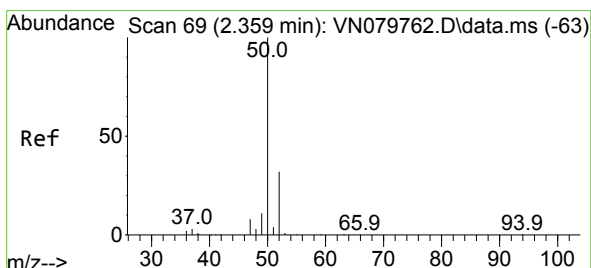
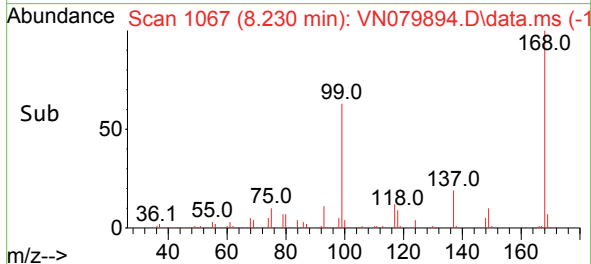
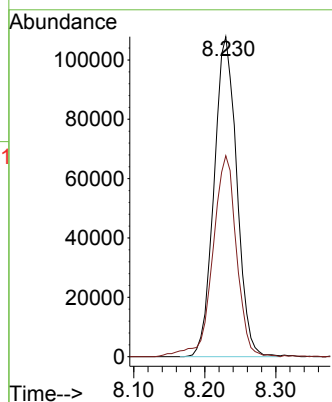
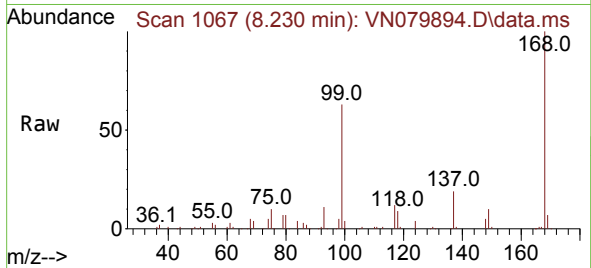




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.230 min Scan# 10
Delta R.T. 0.001 min
Lab File: VN079894.D
Acq: 04 Nov 2023 15:41

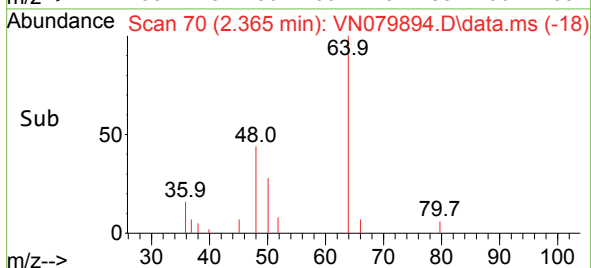
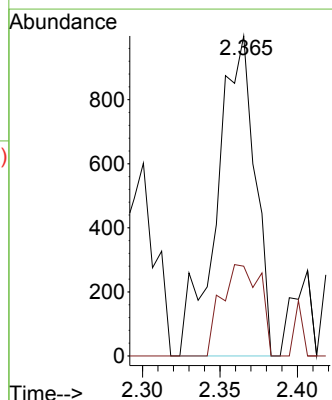
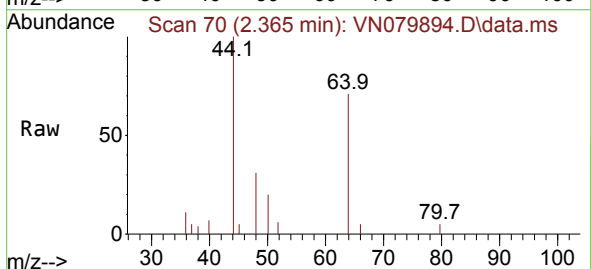
Instrument :
MSVOA_N
ClientSampleId :

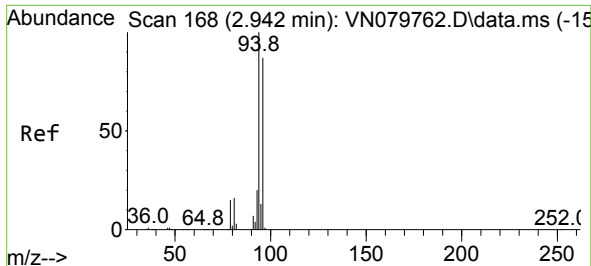
Tgt Ion:168 Resp: 239540
Ion Ratio Lower Upper
168 100
99 62.8 53.0 79.6



#3
Chloromethane
Concen: Below Cal
RT: 2.365 min Scan# 70
Delta R.T. 0.006 min
Lab File: VN079894.D
Acq: 04 Nov 2023 15:41

Tgt Ion: 50 Resp: 1704
Ion Ratio Lower Upper
50 100
52 28.0 26.5 39.7

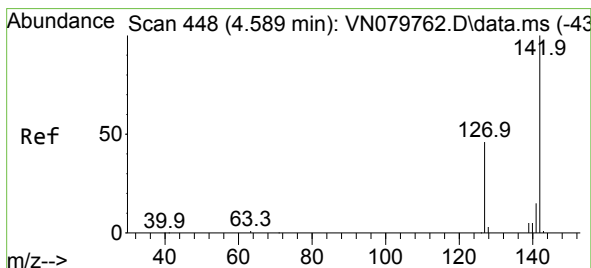
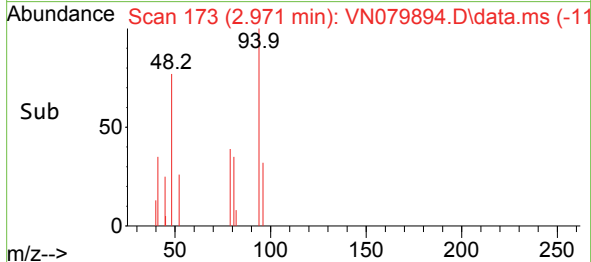
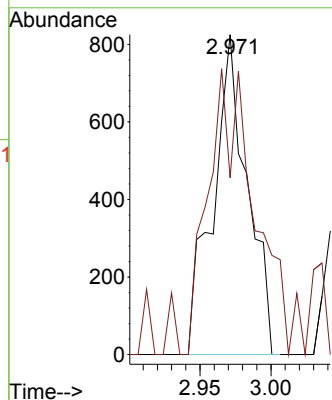
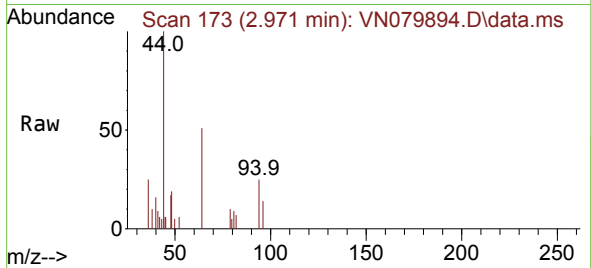




#5
Bromomethane
Concen: 0.603 ug/l
RT: 2.971 min Scan# 11
Delta R.T. 0.018 min
Lab File: VN079894.D
Acq: 04 Nov 2023 15:41

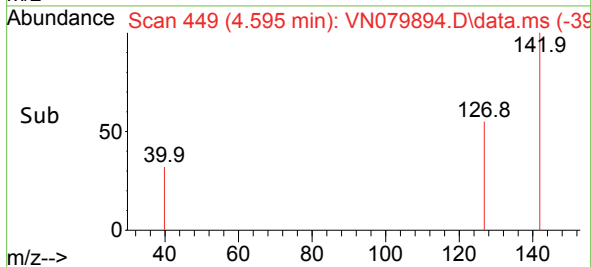
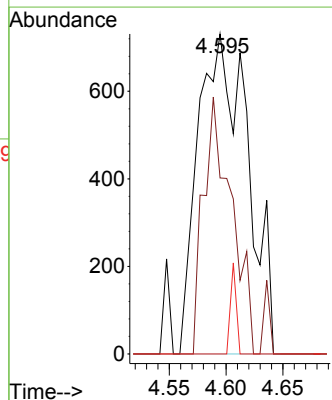
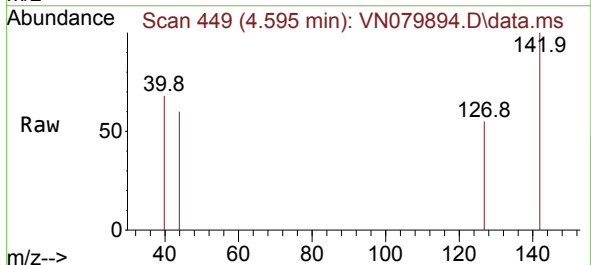
Instrument :
MSVOA_N
ClientSampleId :

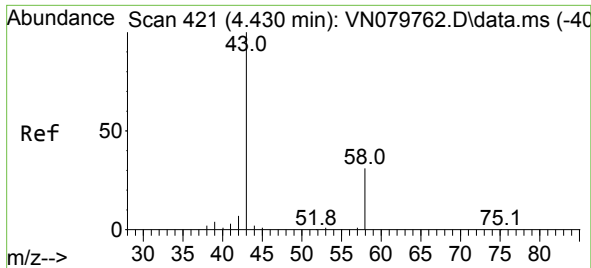
Tgt Ion: 94 Resp: 1384
Ion Ratio Lower Upper
94 100
96 55.3 73.1 109.7#



#10
Methyl Iodide
Concen: 0.714 ug/l
RT: 4.595 min Scan# 449
Delta R.T. 0.000 min
Lab File: VN079894.D
Acq: 04 Nov 2023 15:41

Tgt Ion:142 Resp: 2219
Ion Ratio Lower Upper
142 100
127 55.0 37.6 56.4
141 0.0 11.4 17.0#

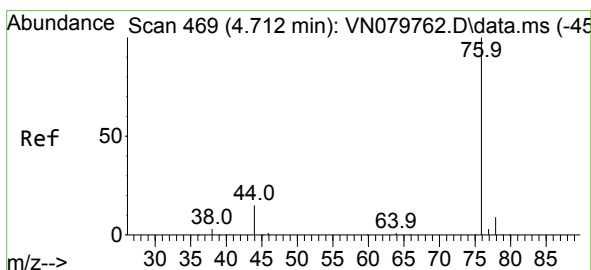
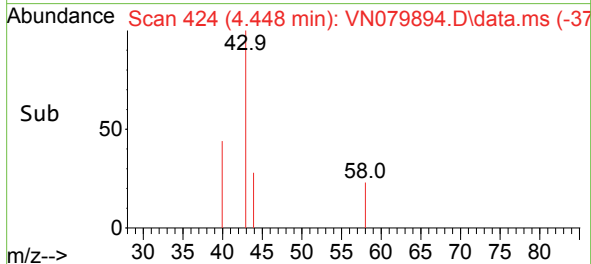
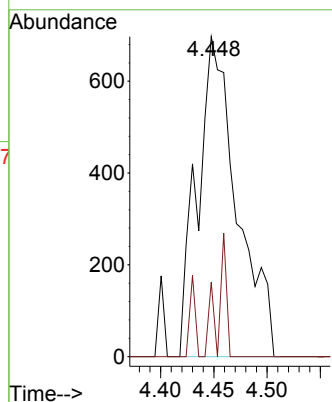
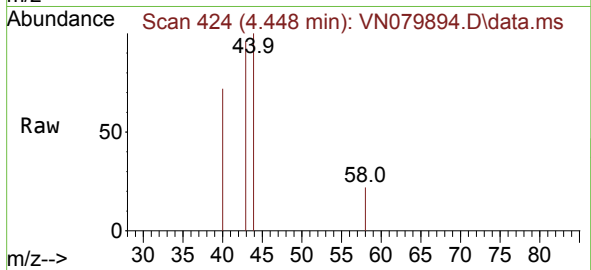




#16
Acetone
Concen: 1.410 ug/l
RT: 4.448 min Scan# 41
Delta R.T. 0.018 min
Lab File: VN079894.D
Acq: 04 Nov 2023 15:41

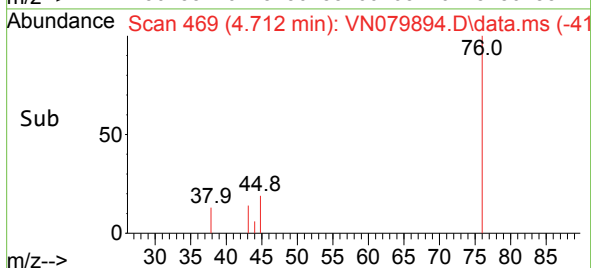
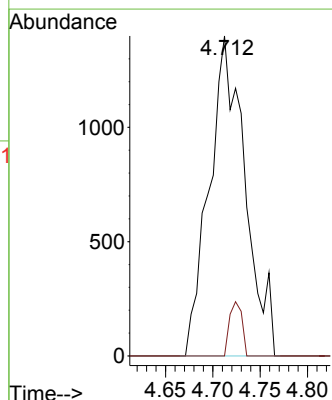
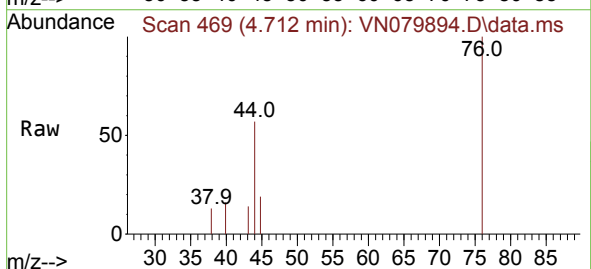
Instrument :
MSVOA_N
ClientSampleId :

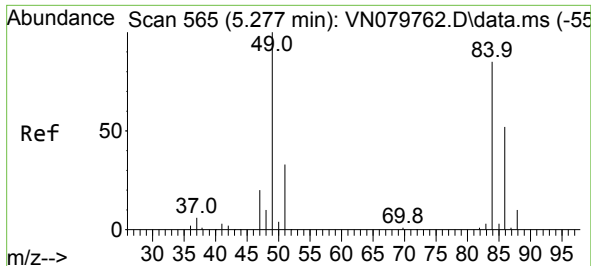
Tgt Ion: 43 Resp: 1808
Ion Ratio Lower Upper
43 100
58 23.2 28.0 42.0#



#17
Carbon Disulfide
Concen: 0.495 ug/l
RT: 4.712 min Scan# 469
Delta R.T. 0.000 min
Lab File: VN079894.D
Acq: 04 Nov 2023 15:41

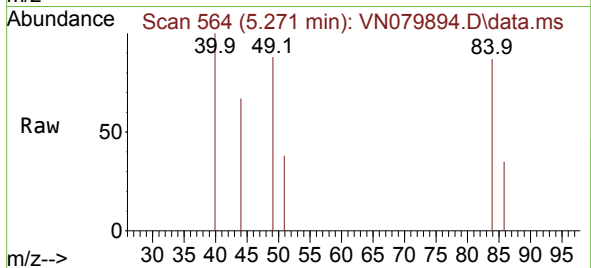
Tgt Ion: 76 Resp: 3678
Ion Ratio Lower Upper
76 100
78 0.0 7.4 11.0#





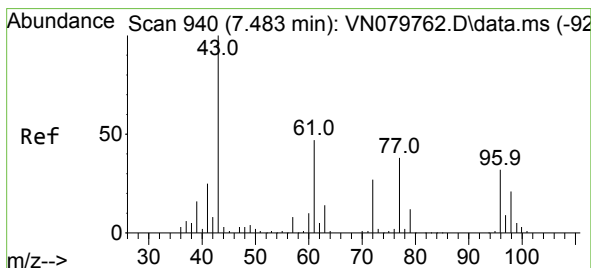
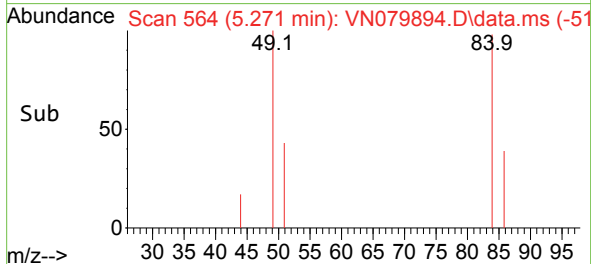
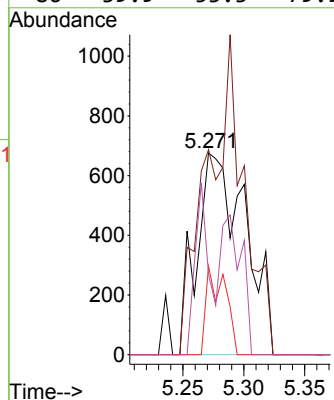
#20
Methylene Chloride
Concen: 0.582 ug/l
RT: 5.271 min Scan# 50
Delta R.T. 0.000 min
Lab File: VN079894.D
Acq: 04 Nov 2023 15:41

Instrument :
MSVOA_N
ClientSampleId :



Tgt Ion: 84 Resp: 1882

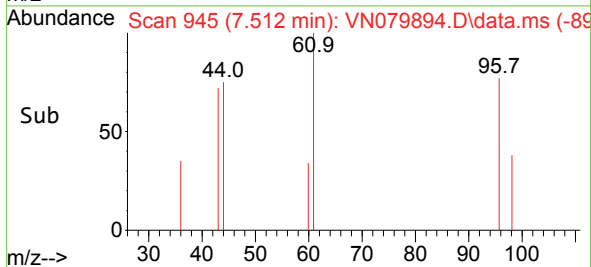
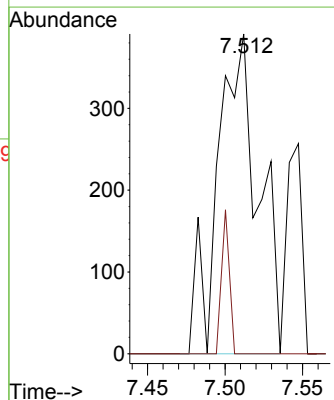
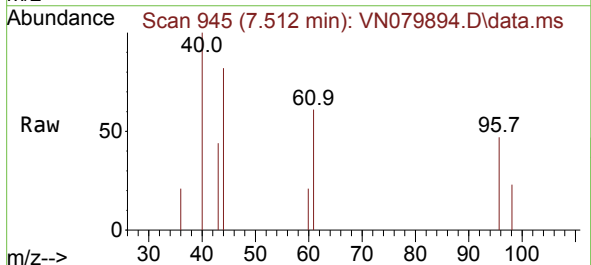
Ion	Ratio	Lower	Upper
84	100		
49	101.6	79.7	119.5
51	43.9	25.2	37.8#
86	39.9	53.3	79.9#

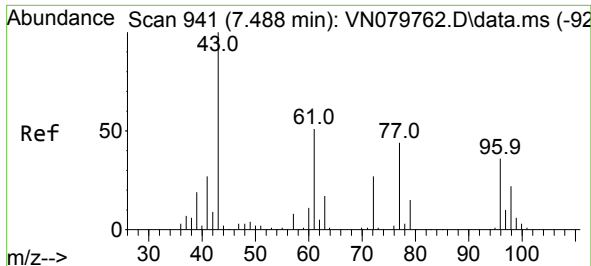


#25
2-Butanone
Concen: 0.381 ug/l
RT: 7.512 min Scan# 945
Delta R.T. 0.024 min
Lab File: VN079894.D
Acq: 04 Nov 2023 15:41

Tgt Ion: 43 Resp: 716

Ion	Ratio	Lower	Upper
43	100		
72	0.0	30.2	45.2#

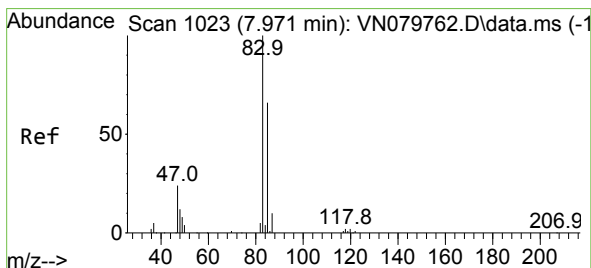
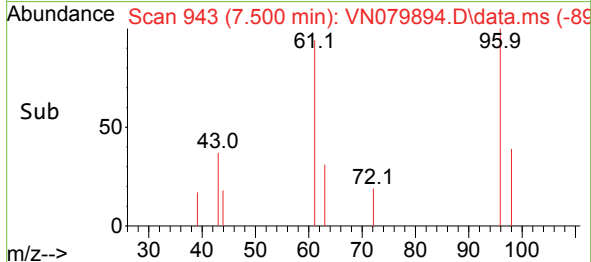
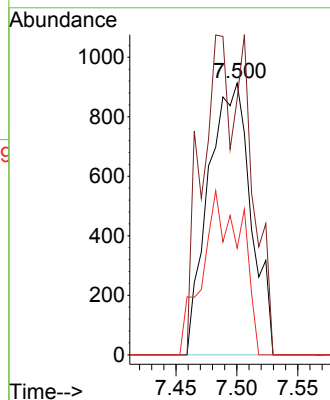
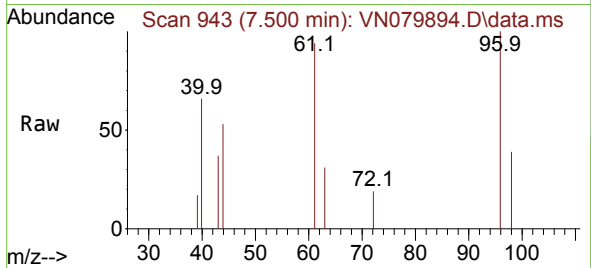




#27
 cis-1,2-Dichloroethene
 Concen: 0.645 ug/l
 RT: 7.500 min Scan# 94
 Delta R.T. 0.012 min
 Lab File: VN079894.D
 Acq: 04 Nov 2023 15:41

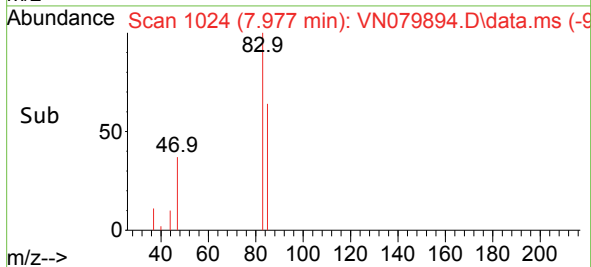
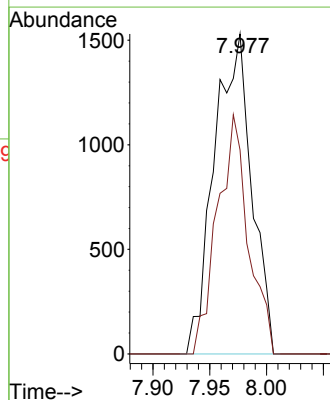
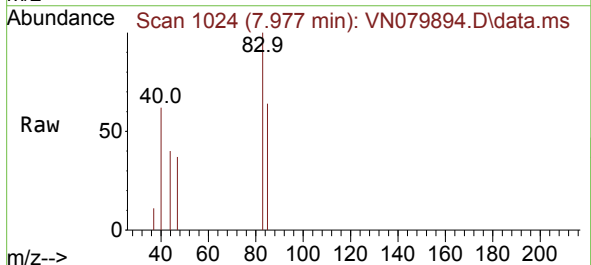
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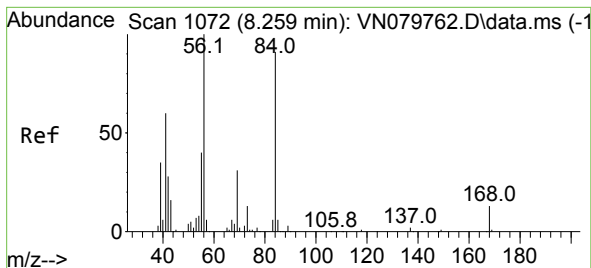
Tgt Ion: 96 Resp: 2217
 Ion Ratio Lower Upper
 96 100
 61 77.0 0.0 255.2
 98 55.0 0.0 128.8



#30
 Chloroform
 Concen: 0.580 ug/l
 RT: 7.977 min Scan# 1024
 Delta R.T. 0.006 min
 Lab File: VN079894.D
 Acq: 04 Nov 2023 15:41

Tgt Ion: 83 Resp: 3503
 Ion Ratio Lower Upper
 83 100
 85 63.7 55.4 83.0





#31

Cyclohexane

Concen: 1.349 ug/l

RT: 8.218 min Scan# 1065

Delta R.T. -0.041 min

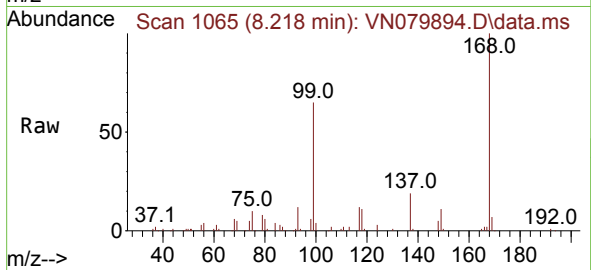
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Acq: 04 Nov 2023 15:41

Instrument :

MSVOA_N

ClientSampleId :



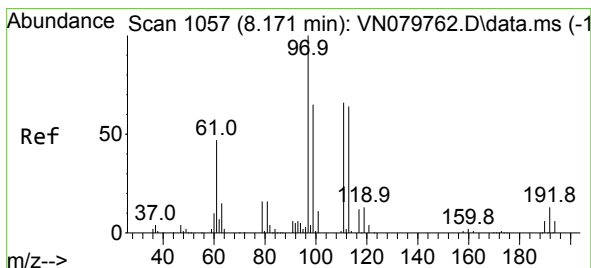
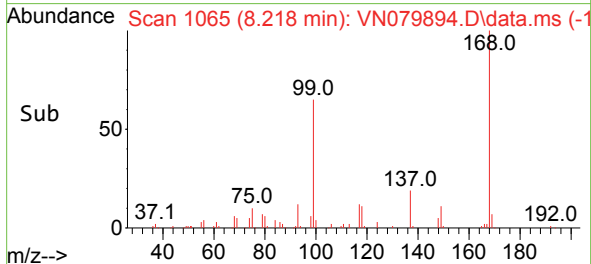
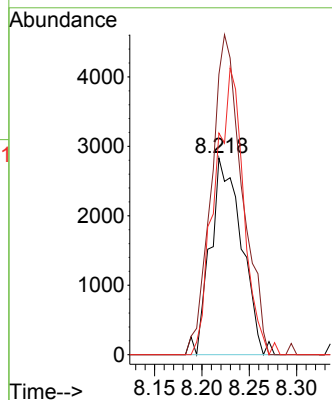
Tgt Ion: 56 Resp: 6504

Ion Ratio Lower Upper

56 100

69 142.6 26.8 40.2#

84 112.8 81.8 122.6



#32

1,1,1-Trichloroethane

Concen: 1.659 ug/l

RT: 8.177 min Scan# 1058

Delta R.T. 0.006 min

Lab File: VN079894.D

Acq: 04 Nov 2023 15:41

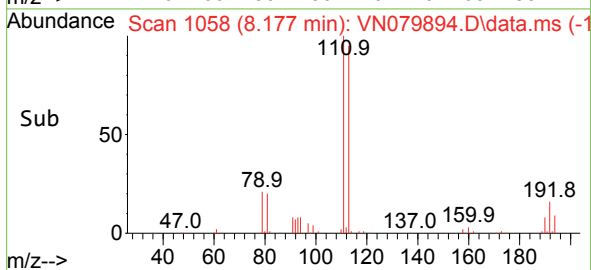
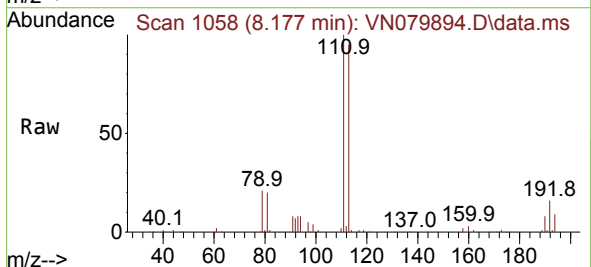
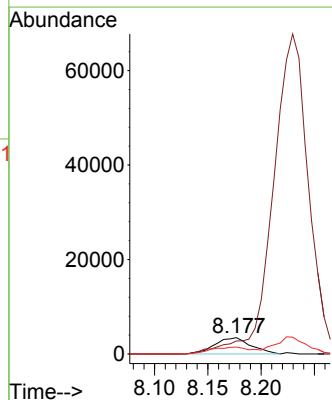
Tgt Ion: 97 Resp: 8169

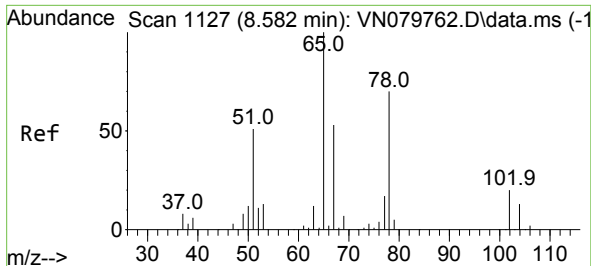
Ion Ratio Lower Upper

97 100

99 0.0 50.3 75.5#

61 40.7 34.7 52.1





#33

1,2-Dichloroethane-d4

Concen: 57.892 ug/l

RT: 8.583 min Scan# 1127

Delta R.T. 0.000 min

Lab File: VN079894.D

Acq: 04 Nov 2023 15:41

Instrument :

MSVOA_N

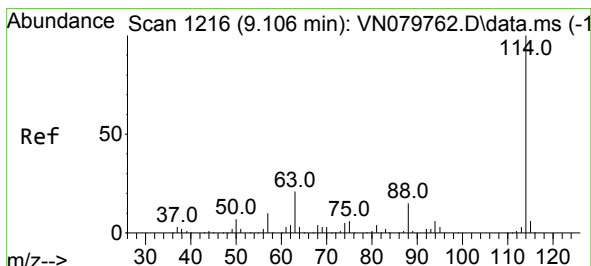
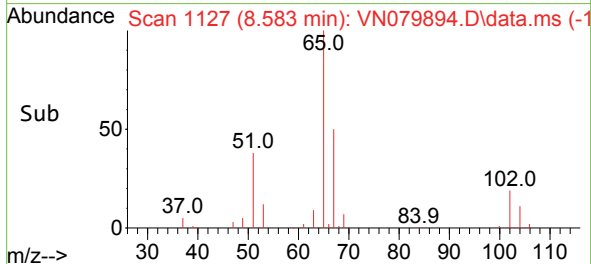
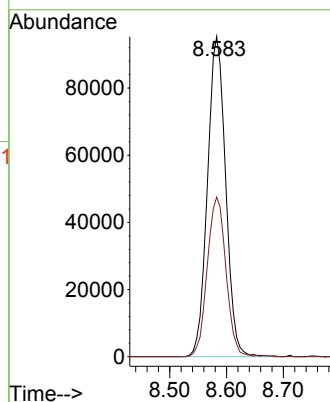
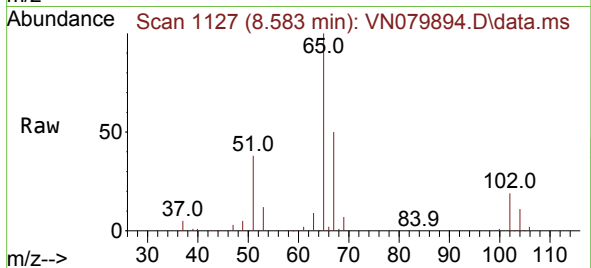
ClientSampleId :

Tgt Ion: 65 Resp: 211276

Ion Ratio Lower Upper

65 100

67 51.4 0.0 106.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 1216

Delta R.T. 0.000 min

Lab File: VN079894.D

Acq: 04 Nov 2023 15:41

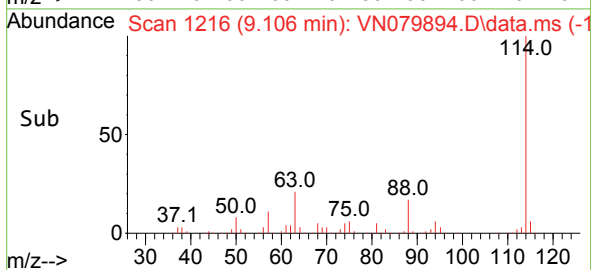
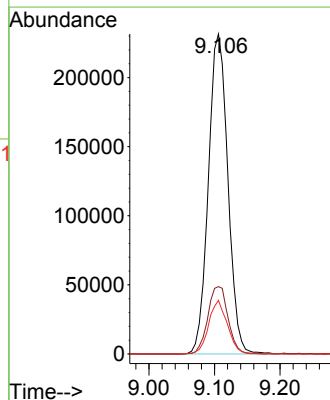
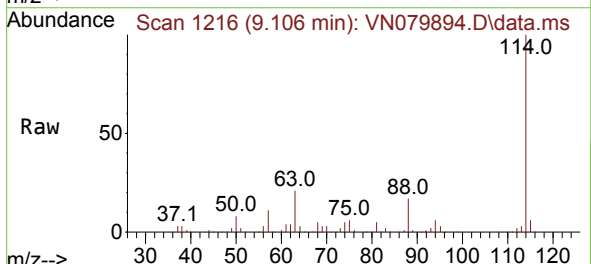
Tgt Ion: 114 Resp: 478176

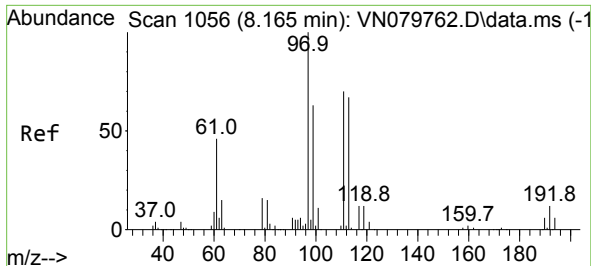
Ion Ratio Lower Upper

114 100

63 21.1 0.0 36.4

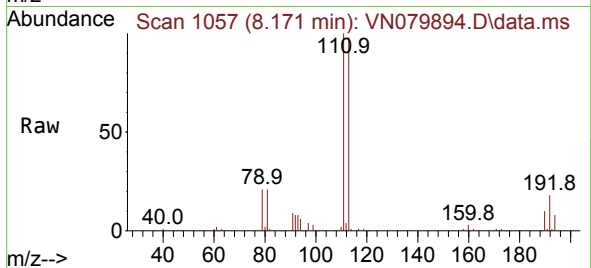
88 16.7 0.0 30.6



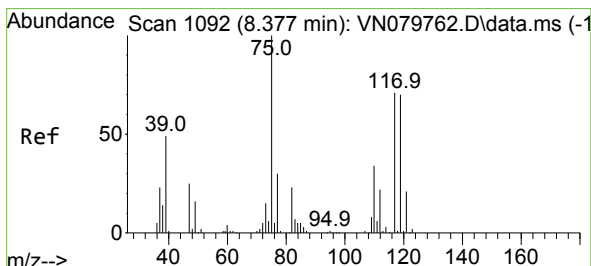
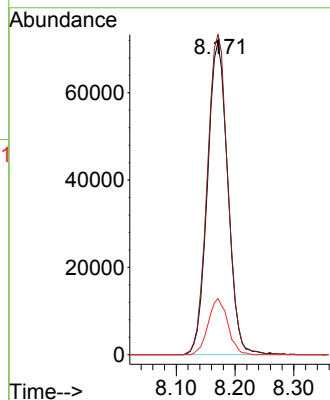
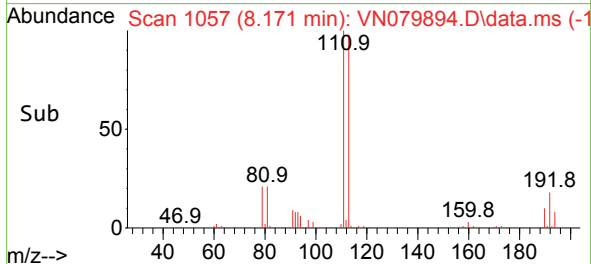


#35
Dibromofluoromethane
Concen: 50.905 ug/l
RT: 8.171 min Scan# 1056
Delta R.T. 0.000 min
Lab File: VN079894.D
Acq: 04 Nov 2023 15:41

Instrument :
MSVOA_N
ClientSampleId :

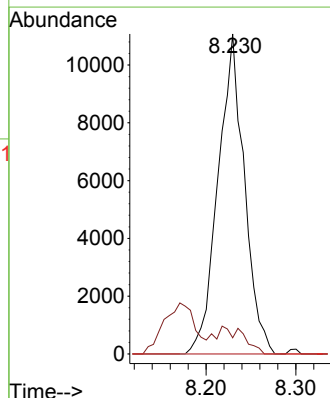
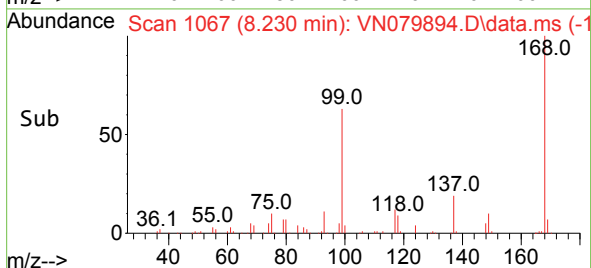
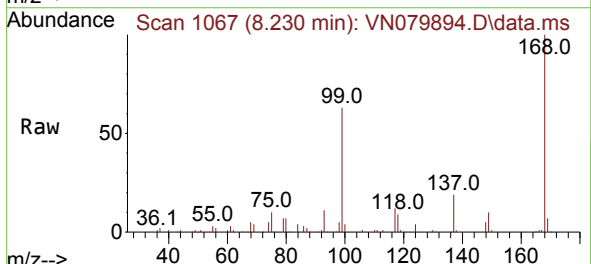


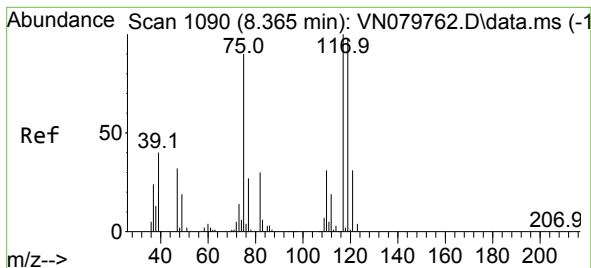
Tgt Ion:113 Resp: 172279
Ion Ratio Lower Upper
113 100
111 103.5 82.6 123.8
192 17.3 12.7 19.1



#36
1,1-Dichloropropene
Concen: 4.669 ug/l
RT: 8.230 min Scan# 1067
Delta R.T. -0.147 min
Lab File: VN079894.D
Acq: 04 Nov 2023 15:41

Tgt Ion: 75 Resp: 22562
Ion Ratio Lower Upper
75 100
110 9.4 19.1 57.3#
77 0.0 25.0 37.4#





#38

Carbon Tetrachloride

Concen: 0.222 ug/l

RT: 8.359 min Scan# 1089

Delta R.T. 0.000 min

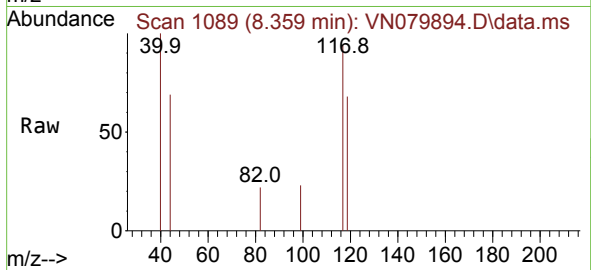
Lab File: VN079894.D

Acq: 04 Nov 2023 15:41

Instrument :

MSVOA_N

ClientSampleId :



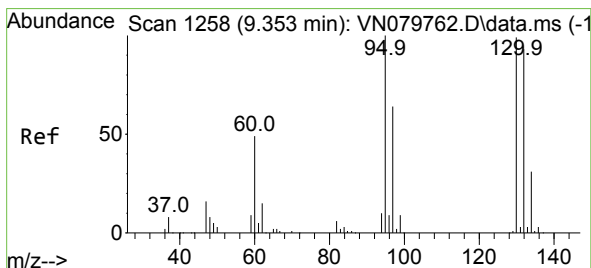
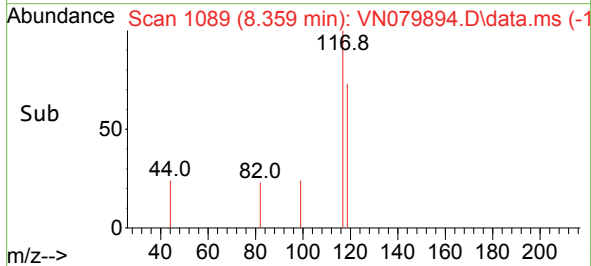
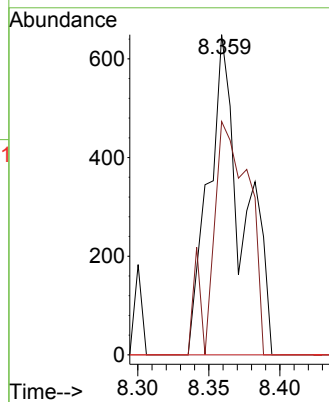
Tgt Ion:117 Resp: 1083

Ion Ratio Lower Upper

117 100

119 72.9 77.3 115.9#

121 0.0 23.3 34.9#



#44

Trichloroethene

Concen: 41.159 ug/l

RT: 9.353 min Scan# 1258

Delta R.T. 0.000 min

Lab File: VN079894.D

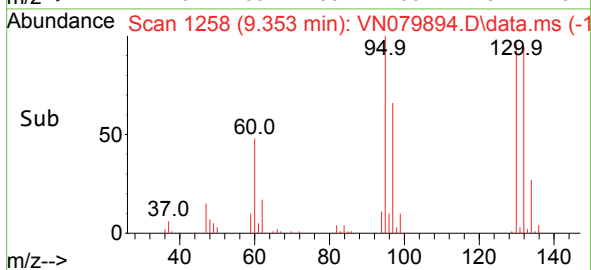
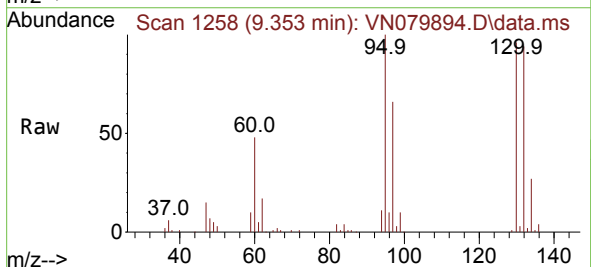
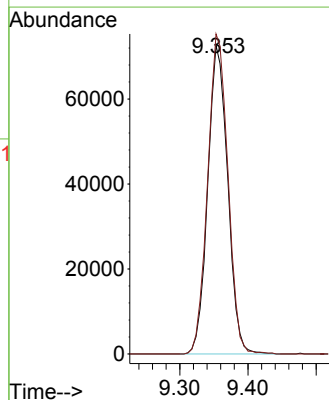
Acq: 04 Nov 2023 15:41

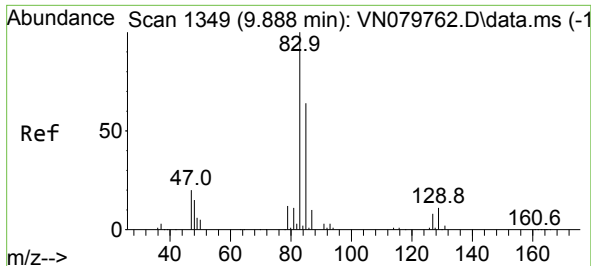
Tgt Ion:130 Resp: 147820

Ion Ratio Lower Upper

130 100

95 103.7 0.0 204.6





#47

Bromodichloromethane

Concen: 0.301 ug/l

RT: 9.888 min Scan# 11

Delta R.T. 0.000 min

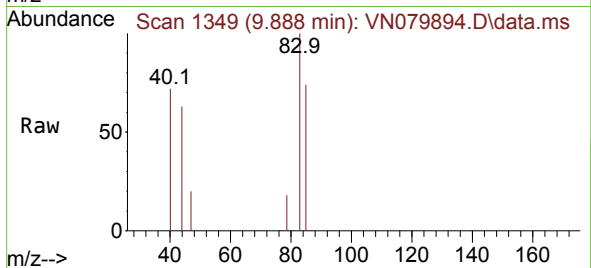
Lab File: VN079894.D

Acq: 04 Nov 2023 15:41

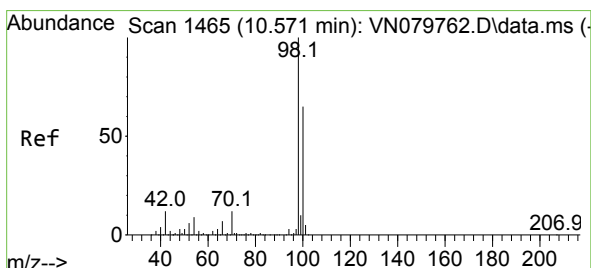
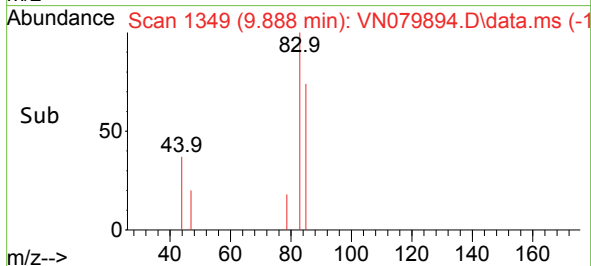
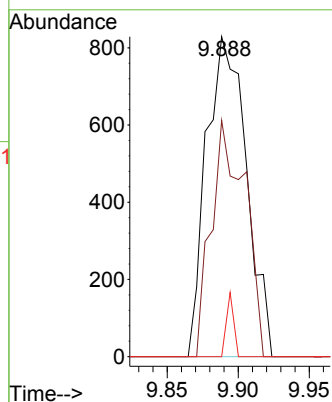
Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion: 83	Resp:	1623
Ion Ratio	Lower	Upper
83	100	
85	73.8	49.6 74.4
127	0.0	7.0 10.6#



#50

Toluene-d8

Concen: 47.606 ug/l

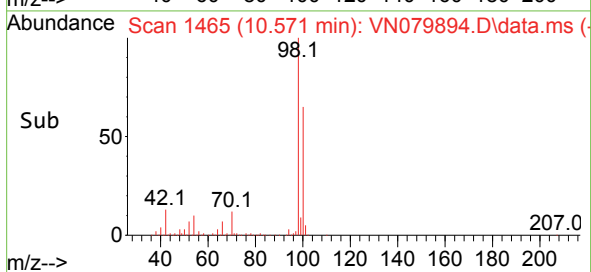
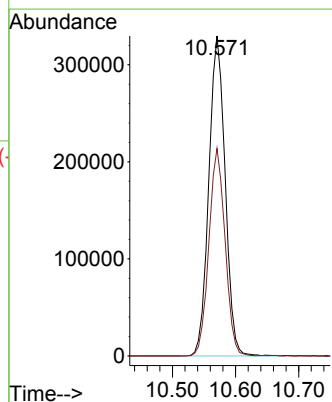
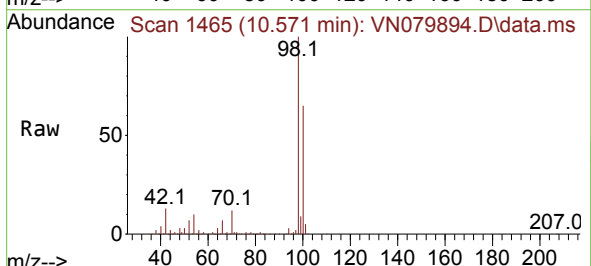
RT: 10.571 min Scan# 1465

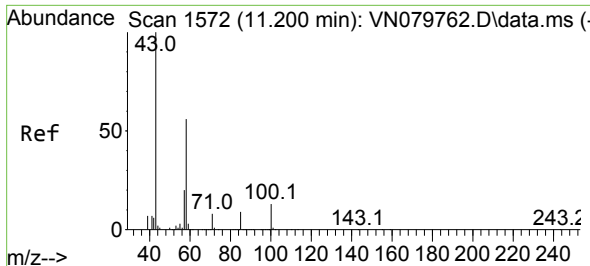
Delta R.T. 0.000 min

Lab File: VN079894.D

Acq: 04 Nov 2023 15:41

Tgt Ion: 98	Resp:	593125
Ion Ratio	Lower	Upper
98	100	
100	64.3	52.0 78.0

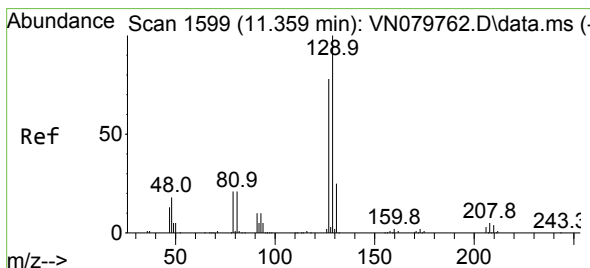
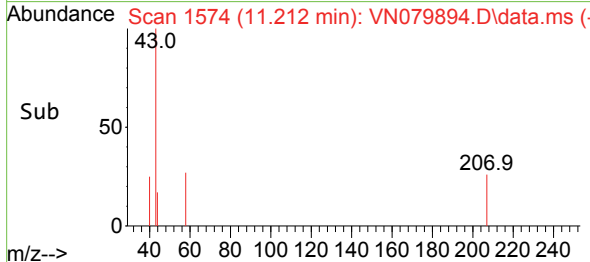
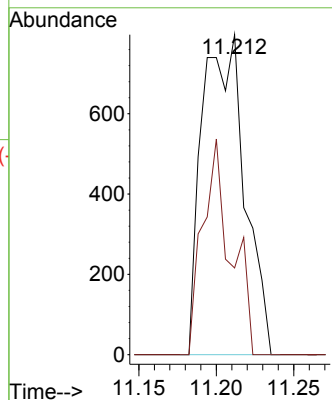
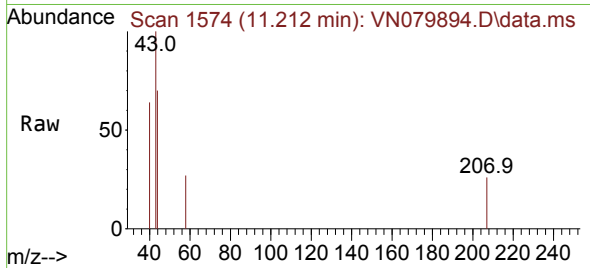




#59
2-Hexanone
Concen: 0.453 ug/l
RT: 11.212 min Scan# 1155
Delta R.T. 0.012 min
Lab File: VN079894.D
Acq: 04 Nov 2023 15:41

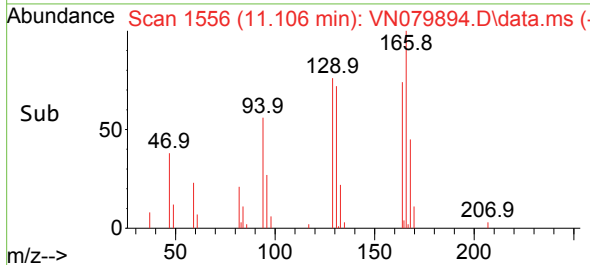
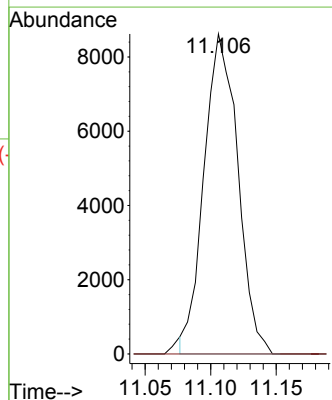
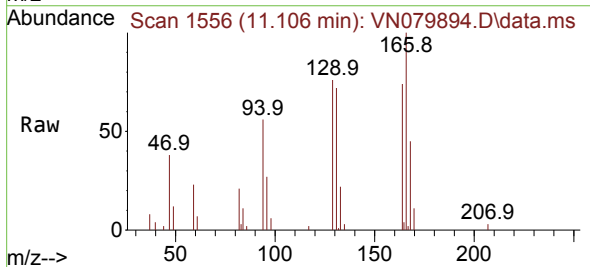
Instrument :
MSVOA_N
ClientSampleId :

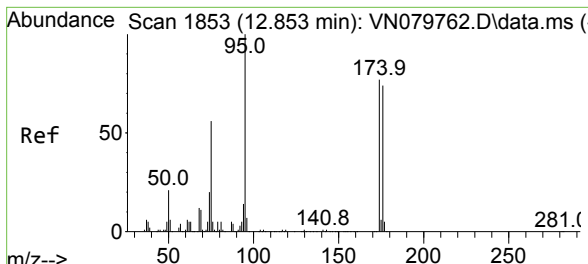
Tgt Ion: 43 Resp: 1515
Ion Ratio Lower Upper
43 100
58 44.9 31.7 95.1



#60
Dibromochloromethane
Concen: 4.179 ug/l
RT: 11.106 min Scan# 1556
Delta R.T. -0.259 min
Lab File: VN079894.D
Acq: 04 Nov 2023 15:41

Tgt Ion: 129 Resp: 15439
Ion Ratio Lower Upper
129 100
127 0.0 38.6 116.0#

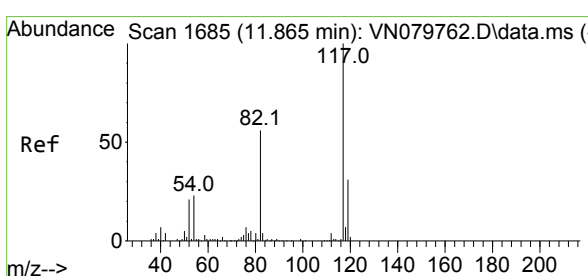
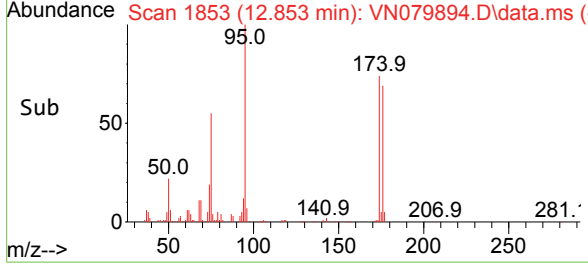
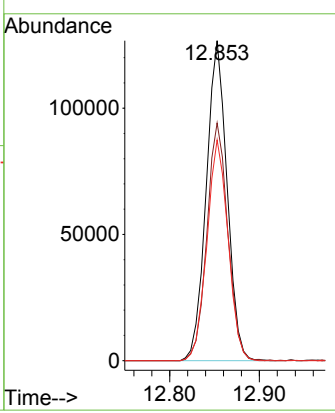
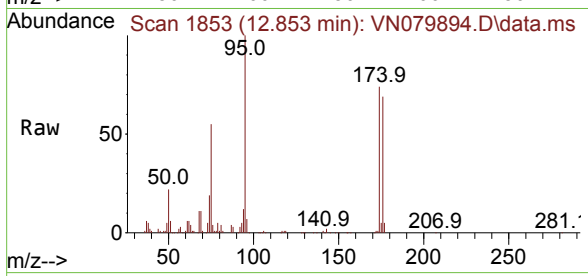




#62
 4-Bromofluorobenzene
 Concen: 49.319 ug/l
 RT: 12.853 min Scan# 1853
 Delta R.T. 0.000 min
 Lab File: VN079894.D
 Acq: 04 Nov 2023 15:41

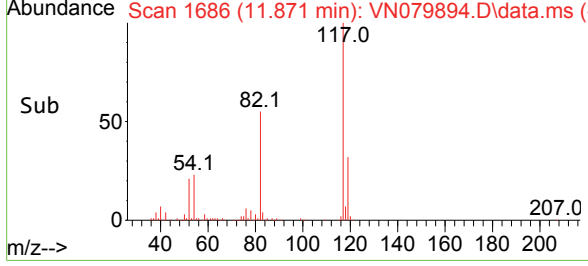
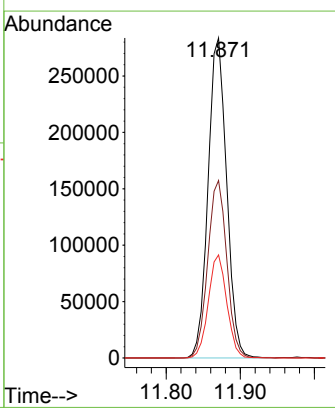
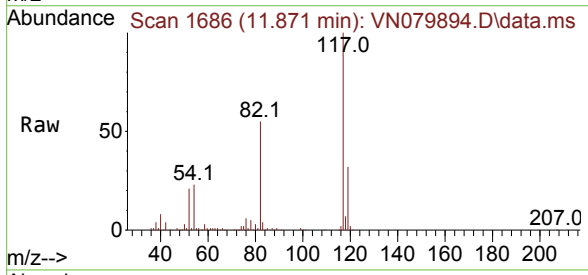
Instrument :
 MSVOA_N
 ClientSampleId :

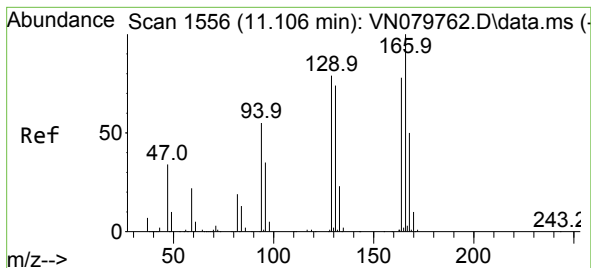
Tgt Ion:	95	Resp:	203787
Ion	Ratio	Lower	Upper
95	100		
174	75.0	0.0	143.8
176	70.2	0.0	135.8



#63
 Chlorobenzene-d5
 Concen: 50.000 ug/l
 RT: 11.871 min Scan# 1686
 Delta R.T. 0.000 min
 Lab File: VN079894.D
 Acq: 04 Nov 2023 15:41

Tgt Ion:	117	Resp:	493340
Ion	Ratio	Lower	Upper
117	100		
82	55.5	44.0	66.0
119	32.2	25.6	38.4





#64

Tetrachloroethene

Concen: 4.717 ug/l

RT: 11.106 min Scan# 1

Delta R.T. 0.000 min

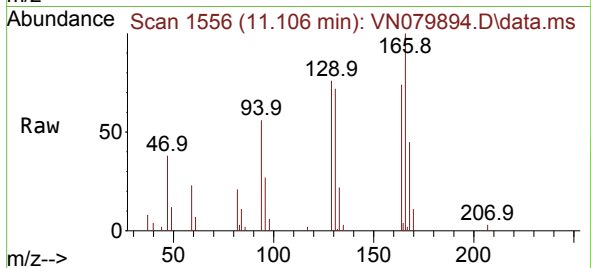
Lab File: VN079894.D

Acq: 04 Nov 2023 15:41

Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion:164 Resp: 15073

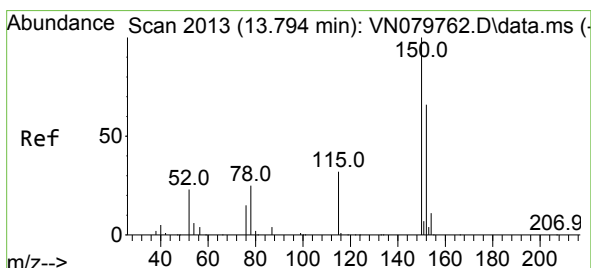
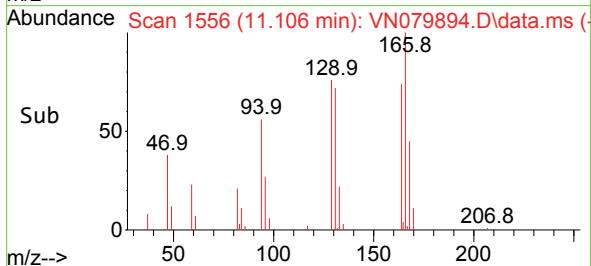
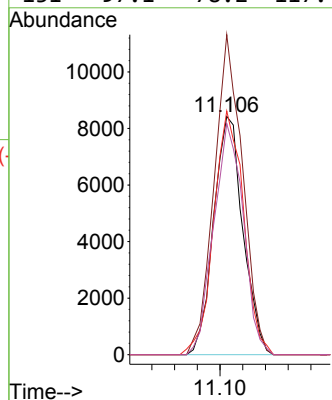
Ion Ratio Lower Upper

164 100

166 134.3 101.4 152.0

129 102.3 82.4 123.6

131 97.1 78.2 117.4



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.794 min Scan# 2013

Delta R.T. 0.000 min

Lab File: VN079894.D

Acq: 04 Nov 2023 15:41

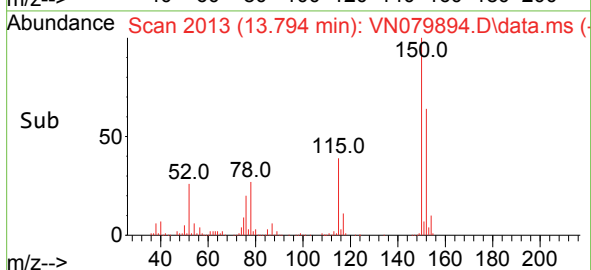
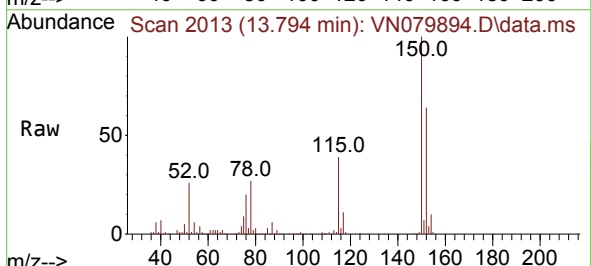
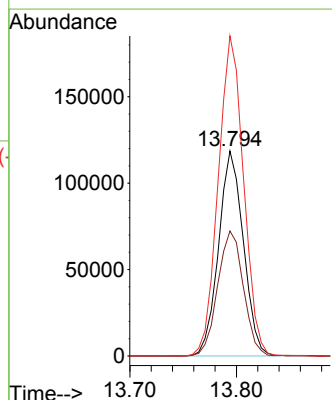
Tgt Ion:152 Resp: 191665

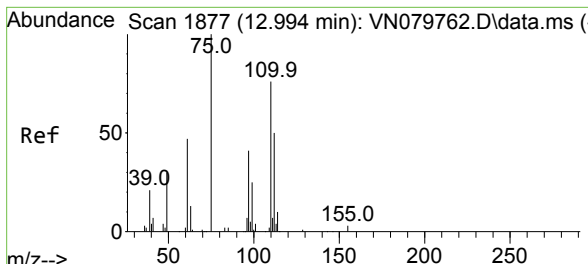
Ion Ratio Lower Upper

152 100

115 63.1 32.3 96.8

150 159.4 0.0 355.8

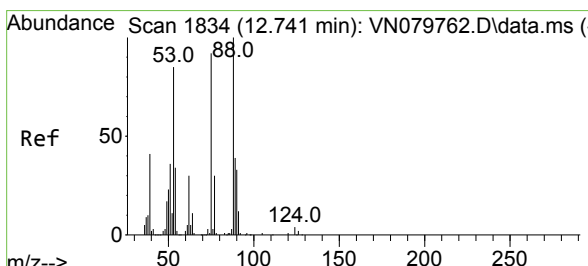
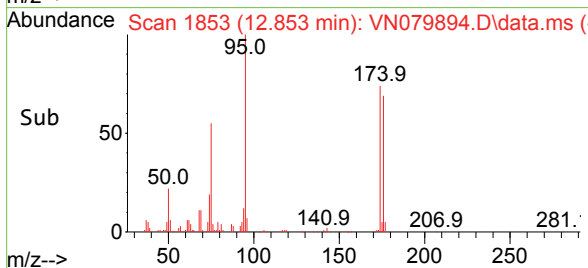
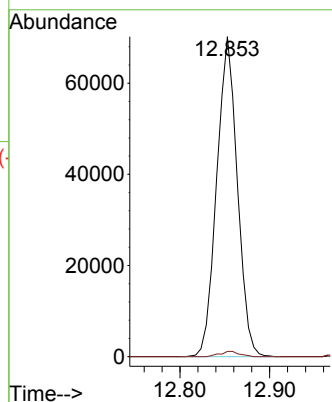
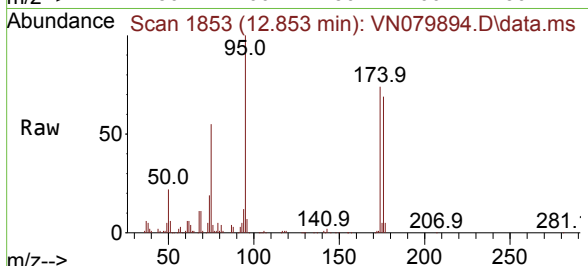




#76
1,2,3-Trichloropropane
Concen: 24.887 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. -0.141 min
Lab File: VN079894.D
Acq: 04 Nov 2023 15:41

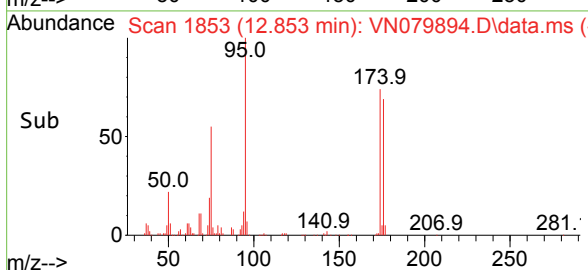
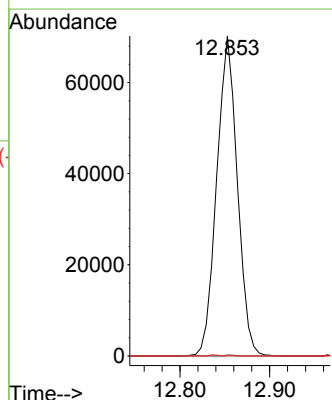
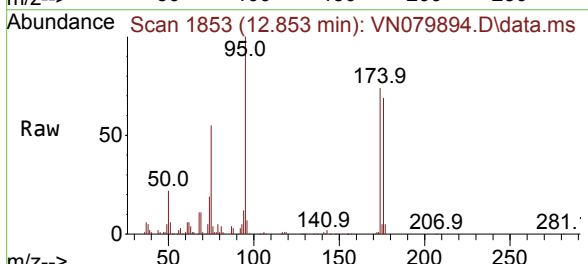
Instrument :
MSVOA_N
ClientSampleId :

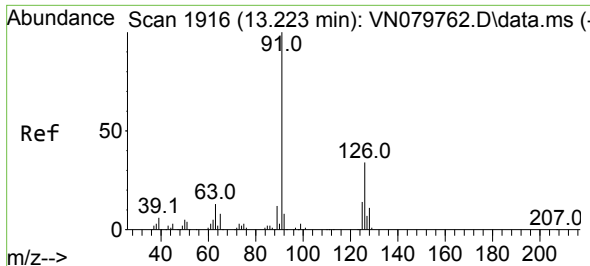
Tgt Ion: 75 Resp: 111985
Ion Ratio Lower Upper
75 100
77 1.6 84.5 253.5#



#81
trans-1,4-Dichloro-2-butene
Concen: 67.712 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.118 min
Lab File: VN079894.D
Acq: 04 Nov 2023 15:41

Tgt Ion: 75 Resp: 111985
Ion Ratio Lower Upper
75 100
53 0.1 67.4 101.2#
89 0.1 38.8 58.2#

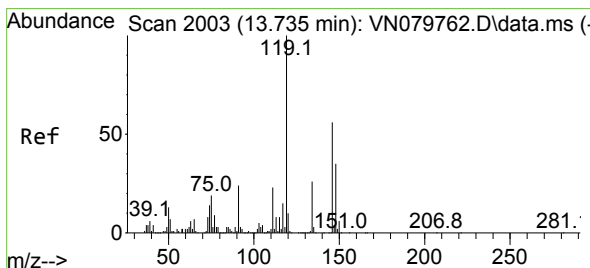
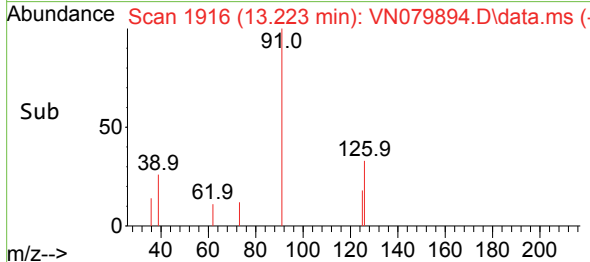
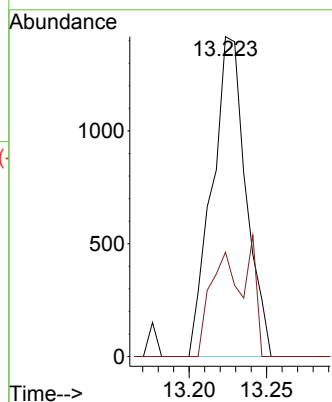
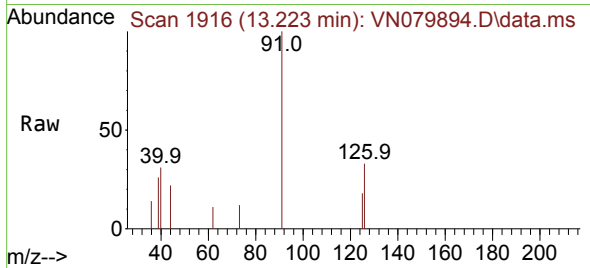




#82
4-Chlorotoluene
Concen: 0.204 ug/l
RT: 13.223 min Scan# 1916
Delta R.T. 0.000 min
Lab File: VN079894.D
Acq: 04 Nov 2023 15:41

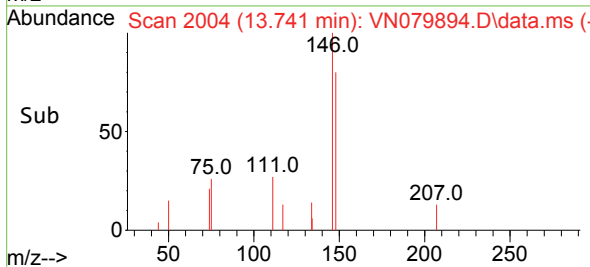
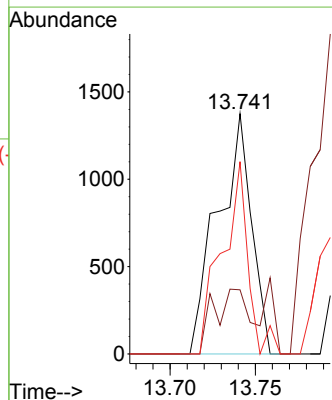
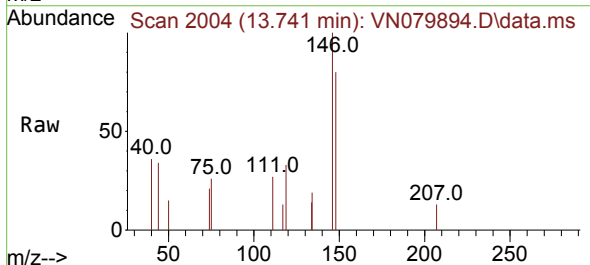
Instrument :
MSVOA_N
ClientSampleId :

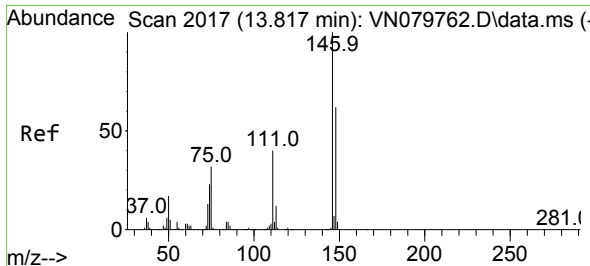
Tgt Ion: 91 Resp: 2155
Ion Ratio Lower Upper
91 100
126 36.6 16.7 50.0



#87
1,3-Dichlorobenzene
Concen: 0.286 ug/l
RT: 13.741 min Scan# 2004
Delta R.T. 0.006 min
Lab File: VN079894.D
Acq: 04 Nov 2023 15:41

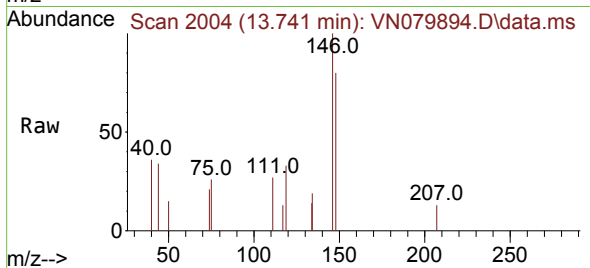
Tgt Ion: 146 Resp: 1892
Ion Ratio Lower Upper
146 100
111 37.7 22.1 66.3
148 61.8 32.0 96.0



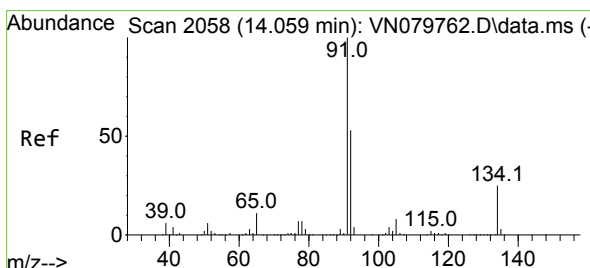
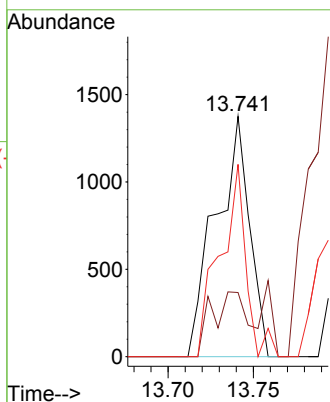
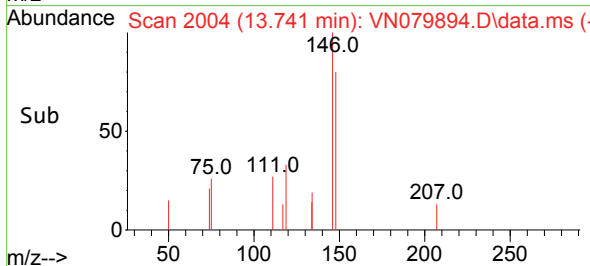


#88
 1,4-Dichlorobenzene
 Concen: 0.281 ug/l
 RT: 13.741 min Scan# 2017
 Delta R.T. -0.076 min
 Lab File: VN079894.D
 Acq: 04 Nov 2023 15:41

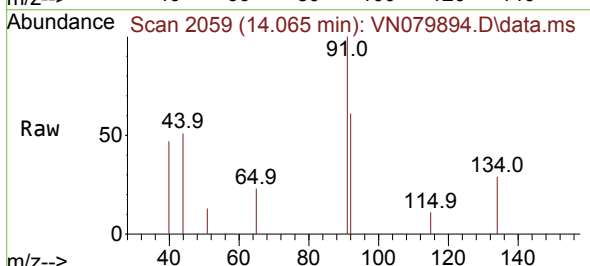
Instrument :
 MSVOA_N
 ClientSampleId :



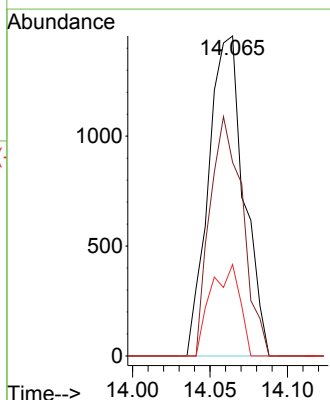
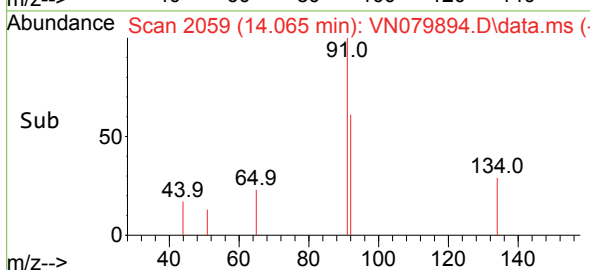
Tgt Ion:146 Resp: 1892
 Ion Ratio Lower Upper
 146 100
 111 37.7 20.6 61.8
 148 61.8 31.6 94.8

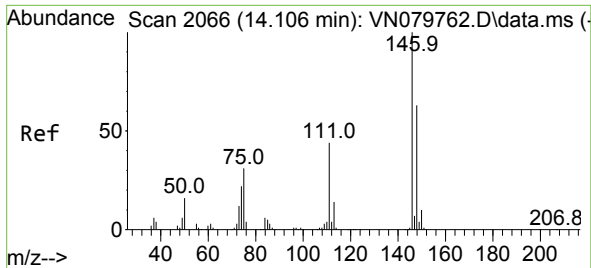


#89
 n-Butylbenzene
 Concen: 0.257 ug/l
 RT: 14.065 min Scan# 2059
 Delta R.T. 0.006 min
 Lab File: VN079894.D
 Acq: 04 Nov 2023 15:41



Tgt Ion: 91 Resp: 2313
 Ion Ratio Lower Upper
 91 100
 92 68.9 26.4 79.0
 134 23.4 12.6 37.6

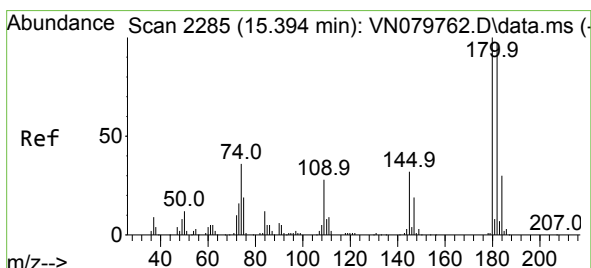
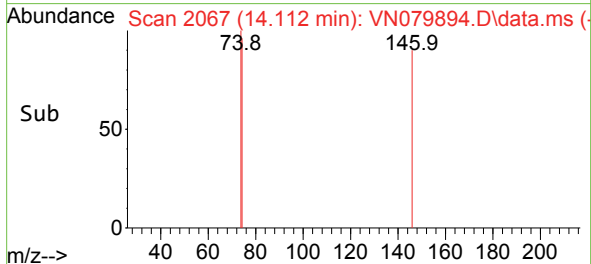
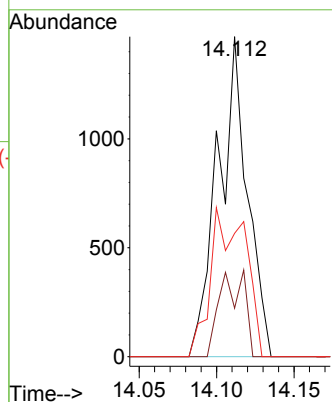
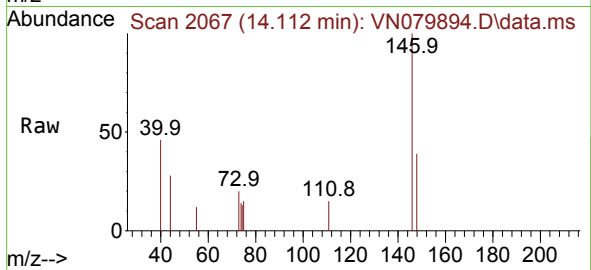




#91
1,2-Dichlorobenzene
Concen: 0.309 ug/l
RT: 14.112 min Scan# 2066
Delta R.T. 0.006 min
Lab File: VN079894.D
Acq: 04 Nov 2023 15:41

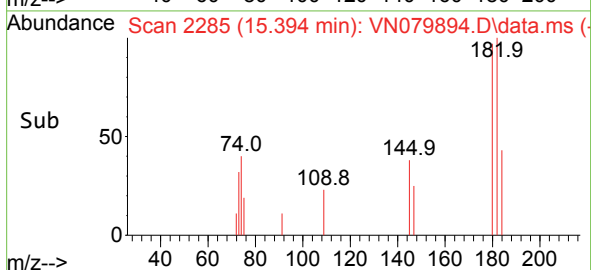
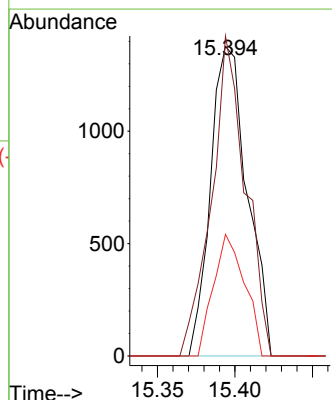
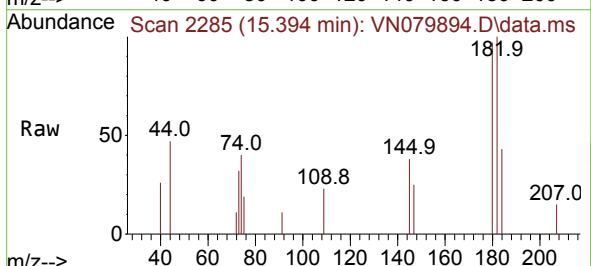
Instrument :
MSVOA_N
ClientSampleId :

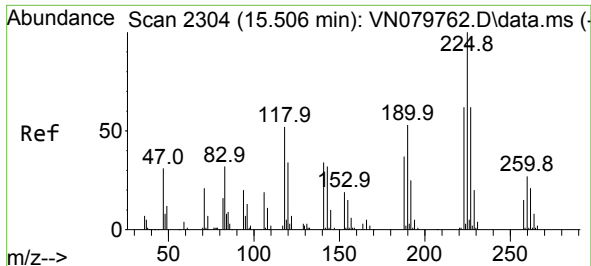
Tgt Ion:146 Resp: 1932
Ion Ratio Lower Upper
146 100
111 22.4 22.0 66.0
148 55.1 31.8 95.3



#93
1,2,4-Trichlorobenzene
Concen: 0.763 ug/l
RT: 15.394 min Scan# 2285
Delta R.T. 0.000 min
Lab File: VN079894.D
Acq: 04 Nov 2023 15:41

Tgt Ion:180 Resp: 2270
Ion Ratio Lower Upper
180 100
182 95.4 46.1 138.2
145 33.3 16.6 49.8

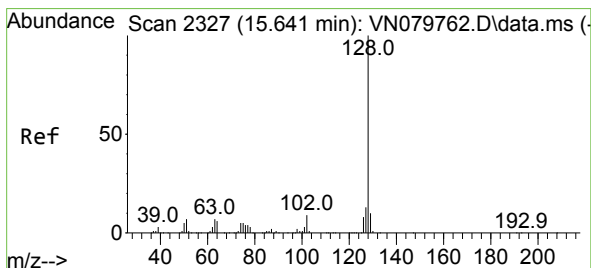
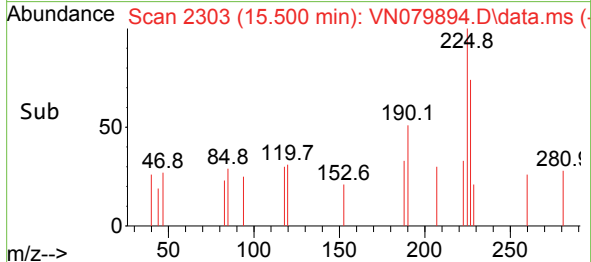
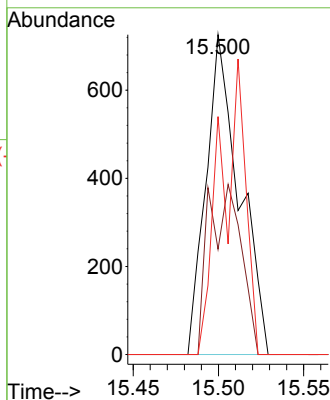
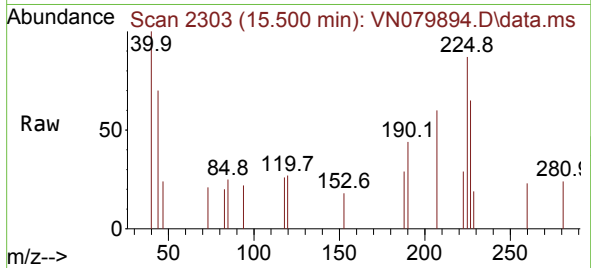




#94
Hexachlorobutadiene
Concen: 0.732 ug/l
RT: 15.500 min Scan# 21
Delta R.T. -0.006 min
Lab File: VN079894.D
Acq: 04 Nov 2023 15:41

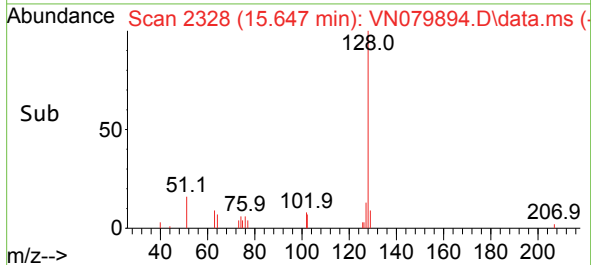
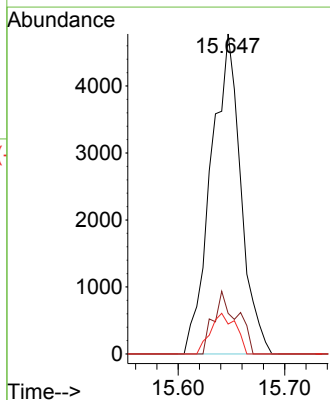
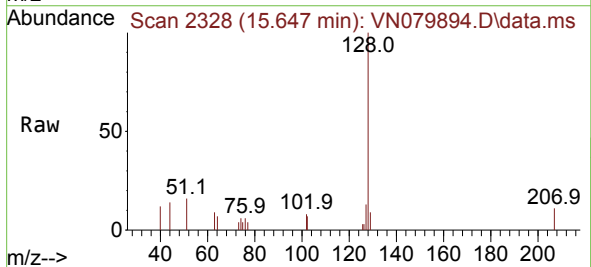
Instrument :
MSVOA_N
ClientSampleId :

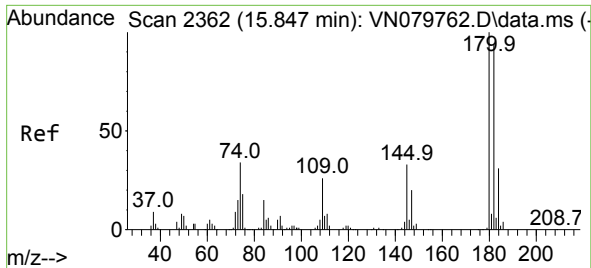
Tgt Ion	Ratio	Lower	Upper
225	100		
223	51.8	31.3	93.8
227	68.8	31.9	95.9



#95
Naphthalene
Concen: 0.920 ug/l
RT: 15.647 min Scan# 2328
Delta R.T. 0.006 min
Lab File: VN079894.D
Acq: 04 Nov 2023 15:41

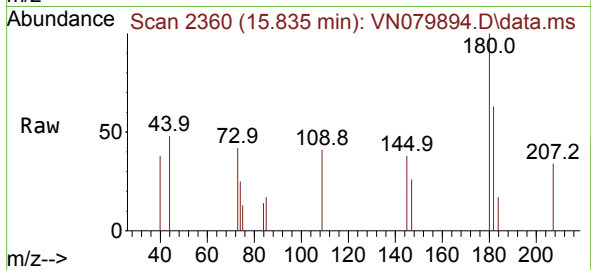
Tgt Ion	Ratio	Lower	Upper
128	100		
127	15.6	10.0	15.0#
129	10.7	8.7	13.1





#96
 1,2,3-Trichlorobenzene
 Concen: 0.913 ug/l
 RT: 15.835 min Scan# 21
 Delta R.T. -0.006 min
 Lab File: VN079894.D
 Acq: 04 Nov 2023 15:41

Instrument :
 MSVOA_N
 ClientSampleId :



Tgt Ion:	180	Resp:	2662
Ion	Ratio	Lower	Upper
180	100		
182	80.6	46.2	138.6
145	37.4	17.5	52.6

