

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN110323\
 Data File : VN079843.D
 Acq On : 03 Nov 2023 12:53
 Operator : JC\MD
 Sample : 05224-04RE
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Nov 04 00:51:04 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)

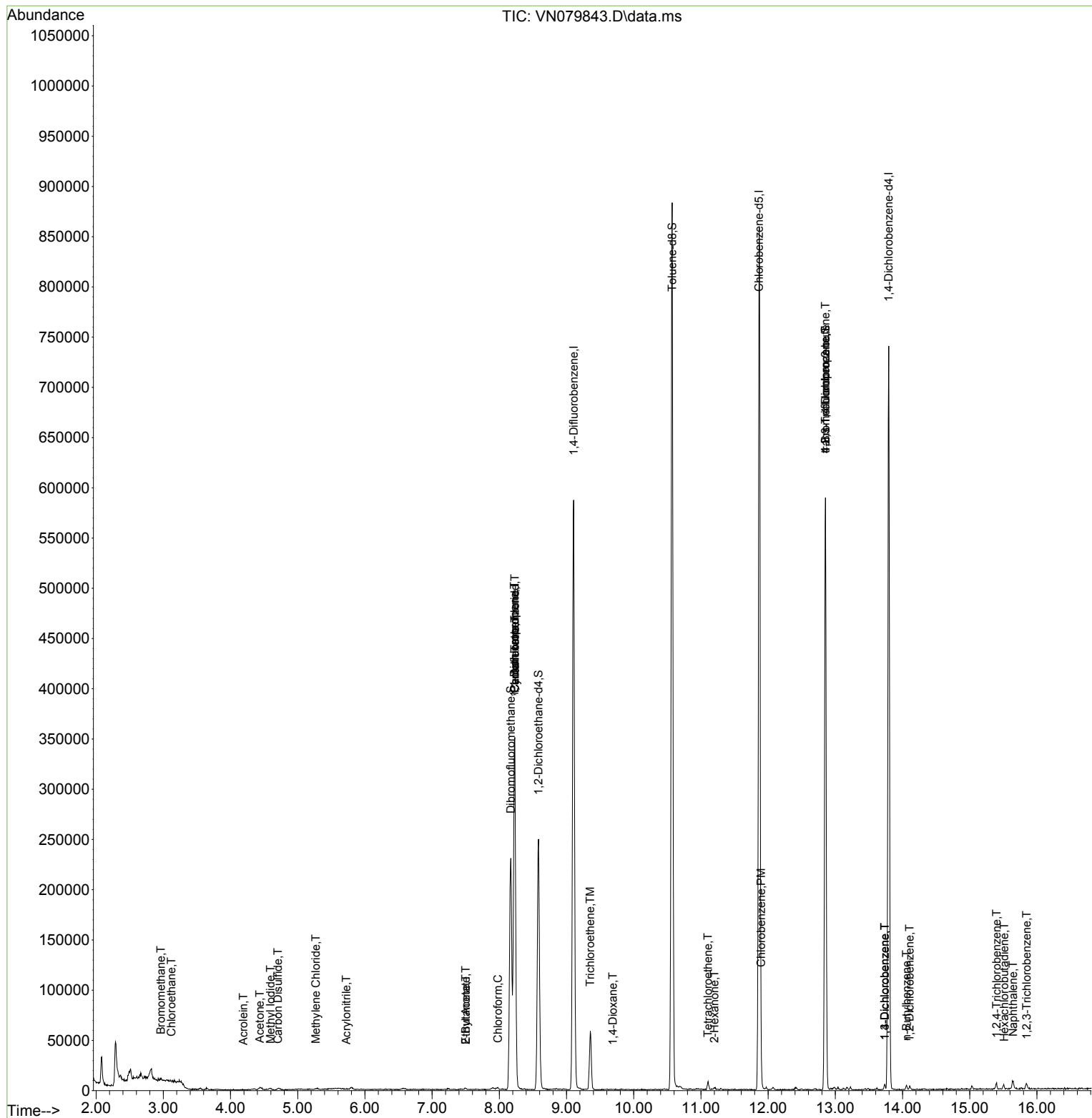
Internal Standards						
1) Pentafluorobenzene	8.230	168	247152	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	487962	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	479164	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	185522	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.583	65	200993	53.378	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	= 106.760%	
35) Dibromofluoromethane	8.171	113	165827	48.016	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 96.040%	
50) Toluene-d8	10.571	98	592409	46.595	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	= 93.200%	
62) 4-Bromofluorobenzene	12.853	95	196728	46.656	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	= 93.320%	
Target Compounds						
					Qvalue	
5) Bromomethane	2.965	94	1484	0.627	ug/l	85
6) Chloroethane	3.118	64	668	0.217	ug/l #	43
10) Methyl Iodide	4.595	142	2555	0.796	ug/l #	70
13) Acrolein	4.189	56	74	2.742	ug/l #	16
15) Acrylonitrile	5.724	53	390	0.260	ug/l #	77
16) Acetone	4.436	43	4107	3.105	ug/l #	78
17) Carbon Disulfide	4.706	76	1616	0.211	ug/l #	75
20) Methylene Chloride	5.271	84	800	0.240	ug/l #	67
25) 2-Butanone	7.500	43	1062	0.548	ug/l #	87
30) Chloroform	7.977	83	1826	0.293	ug/l	94
31) Cyclohexane	8.230	56	7196	1.446	ug/l #	42
36) 1,1-Dichloropropene	8.224	75	23181	4.701	ug/l #	49
37) Ethyl Acetate	7.500	43	1062	0.235	ug/l #	54
38) Carbon Tetrachloride	8.230	117	27537	5.541	ug/l #	14
44) Trichloroethene	9.353	130	19570	5.340	ug/l	96
49) 1,4-Dioxane	9.688	88	137	2.232	ug/l #	30
59) 2-Hexanone	11.200	43	1654	0.484	ug/l	71
64) Tetrachloroethene	11.106	164	1595	0.514	ug/l #	73
65) Chlorobenzene	11.894	112	4071	0.392	ug/l	96
76) 1,2,3-Trichloropropane	12.853	75	108966	25.018	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.853	75	108966	68.068	ug/l #	15
87) 1,3-Dichlorobenzene	13.735	146	1547	0.241	ug/l	73
88) 1,4-Dichlorobenzene	13.735	146	1547	0.238	ug/l	74
89) n-Butylbenzene	14.059	91	2865	0.328	ug/l #	76
91) 1,2-Dichlorobenzene	14.106	146	1464	0.242	ug/l	93
93) 1,2,4-Trichlorobenzene	15.400	180	1937	0.673	ug/l	88
94) Hexachlorobutadiene	15.512	225	1093	0.838	ug/l	97
95) Naphthalene	15.647	128	8405	0.861	ug/l	98
96) 1,2,3-Trichlorobenzene	15.847	180	2240	0.794	ug/l	90

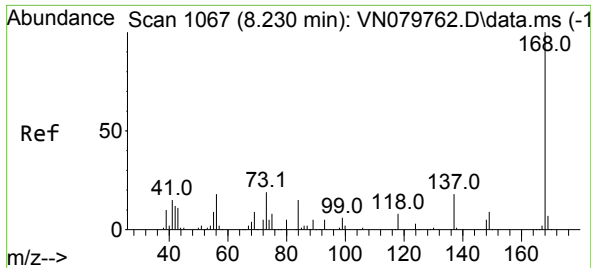
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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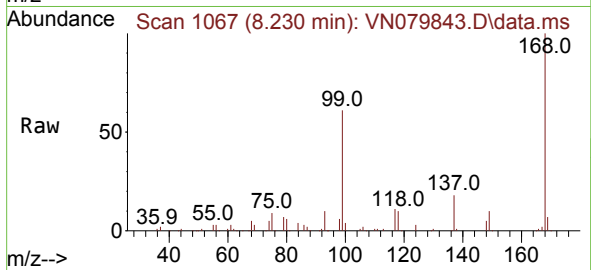
Quant Time: Nov 04 00:51:04 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N110123W.M
Quant Title : SW846 8260
QLast Update : Thu Nov 02 05:49:08 2023
Response via : Initial Calibration



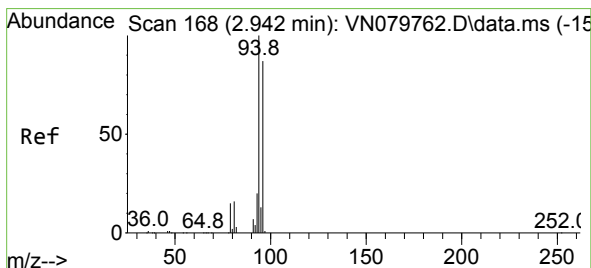
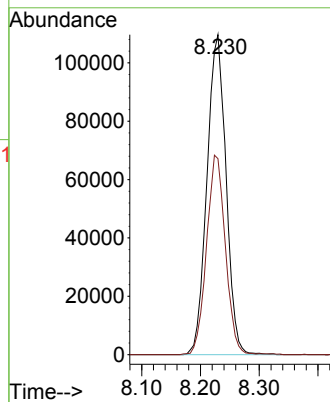
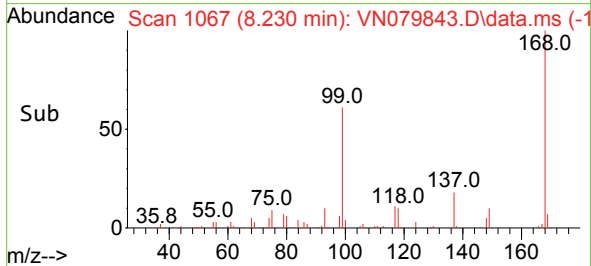


#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.230 min Scan# 1067
Delta R.T. 0.001 min
Lab File: VN079843.D
Acq: 03 Nov 2023 12:53

Instrument :
MSVOA_N
ClientSampleId :

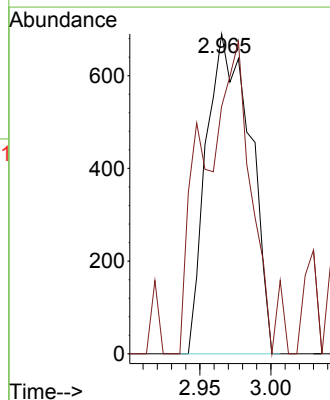
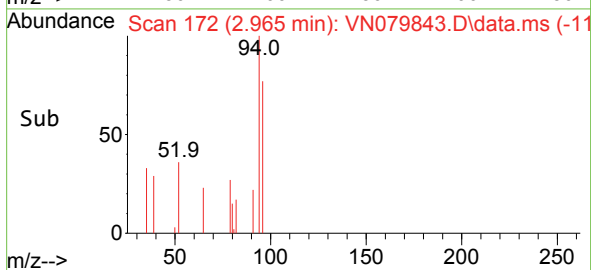
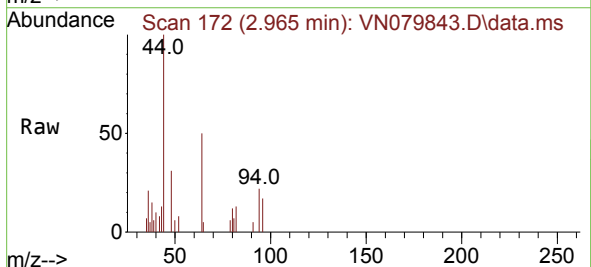


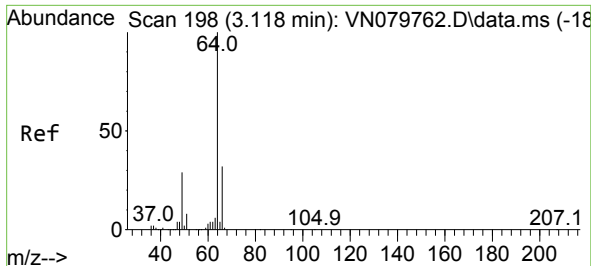
Tgt Ion:168 Resp: 247152
Ion Ratio Lower Upper
168 100
99 61.3 53.0 79.6



#5
Bromomethane
Concen: 0.627 ug/l
RT: 2.965 min Scan# 172
Delta R.T. 0.012 min
Lab File: VN079843.D
Acq: 03 Nov 2023 12:53

Tgt Ion: 94 Resp: 1484
Ion Ratio Lower Upper
94 100
96 77.4 73.1 109.7

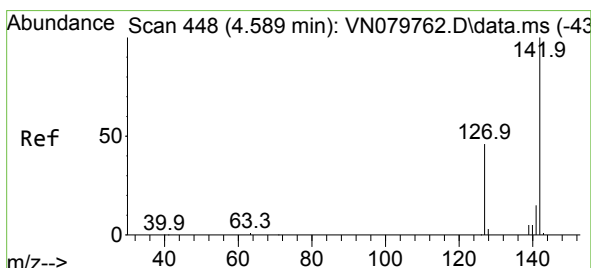
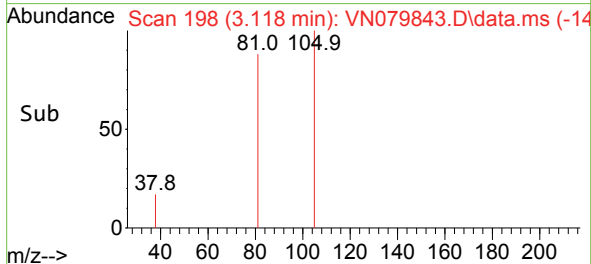
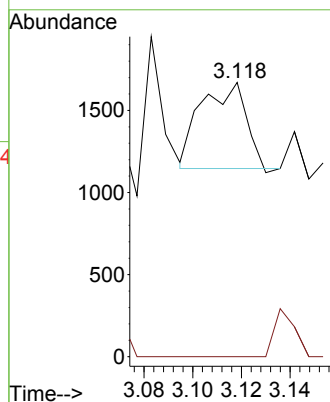
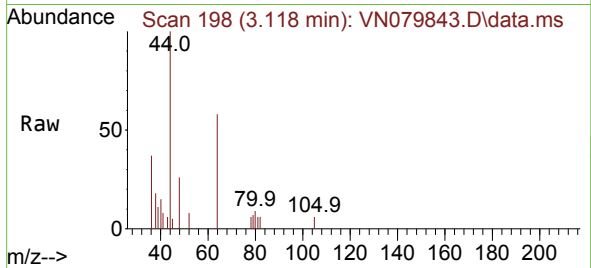




#6
Chloroethane
Concen: 0.217 ug/l
RT: 3.118 min Scan# 198
Delta R.T. 0.000 min
Lab File: VN079843.D
Acq: 03 Nov 2023 12:53

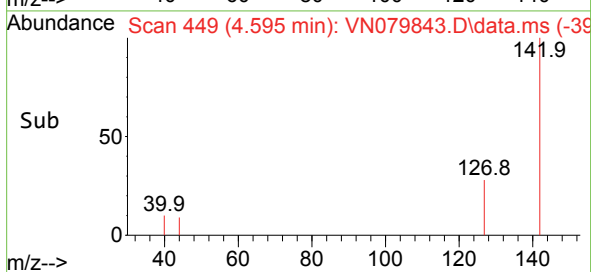
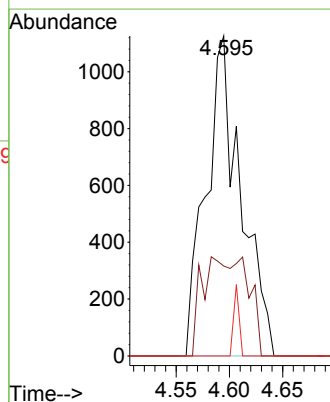
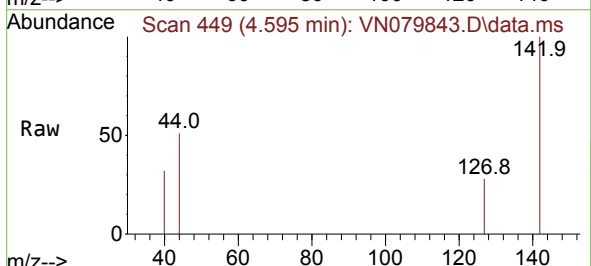
Instrument :
MSVOA_N
ClientSampleId :

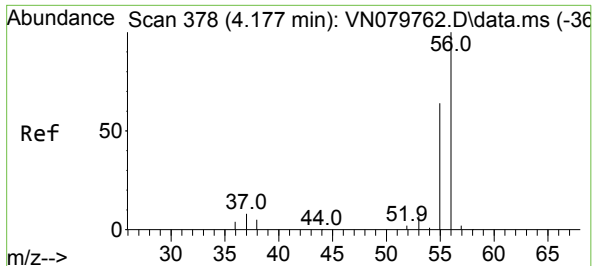
Tgt Ion: 64 Resp: 668
Ion Ratio Lower Upper
64 100
66 0.0 25.4 38.2#



#10
Methyl Iodide
Concen: 0.796 ug/l
RT: 4.595 min Scan# 449
Delta R.T. 0.000 min
Lab File: VN079843.D
Acq: 03 Nov 2023 12:53

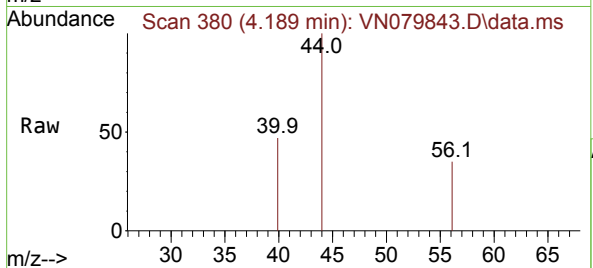
Tgt Ion: 142 Resp: 2555
Ion Ratio Lower Upper
142 100
127 28.1 37.6 56.4#
141 0.0 11.4 17.0#



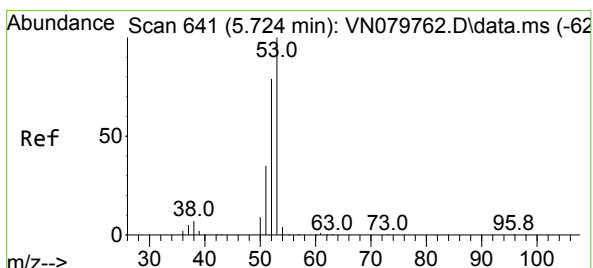
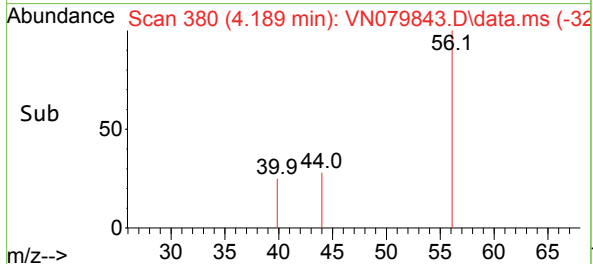
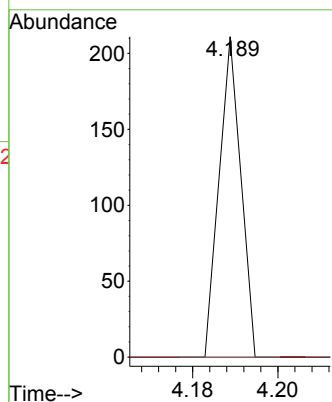


#13
Acrolein
Concen: 2.742 ug/l
RT: 4.189 min Scan# 378
Delta R.T. 0.006 min
Lab File: VN079843.D
Acq: 03 Nov 2023 12:53

Instrument :
MSVOA_N
ClientSampleId :

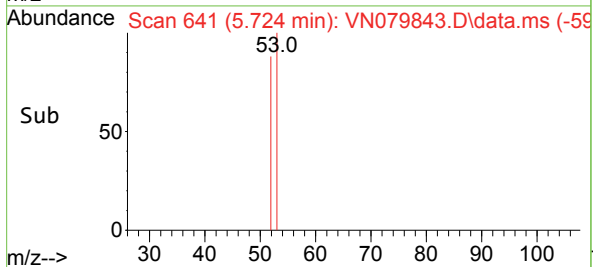
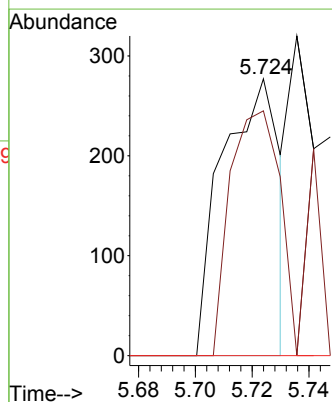
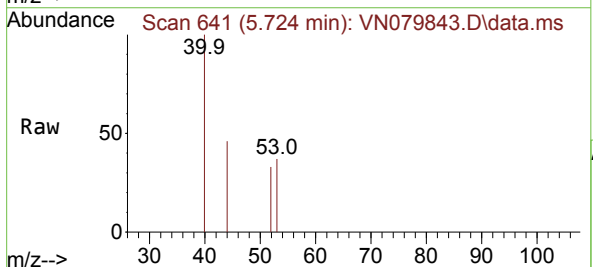


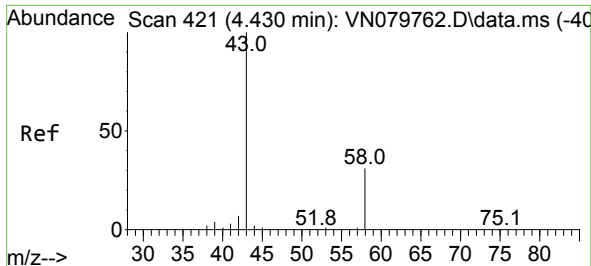
Tgt Ion: 56 Resp: 74
Ion Ratio Lower Upper
56 100
55 0.0 54.5 81.7#



#15
Acrylonitrile
Concen: 0.260 ug/l
RT: 5.724 min Scan# 641
Delta R.T. 0.000 min
Lab File: VN079843.D
Acq: 03 Nov 2023 12:53

Tgt Ion: 53 Resp: 390
Ion Ratio Lower Upper
53 100
52 76.4 65.3 97.9
51 0.0 28.9 43.3#

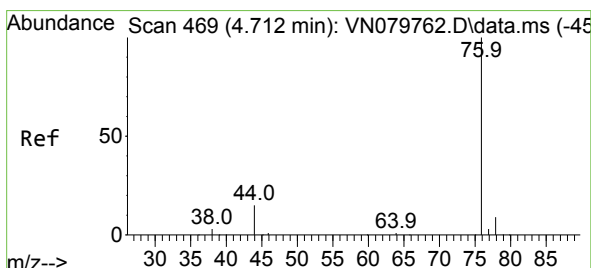
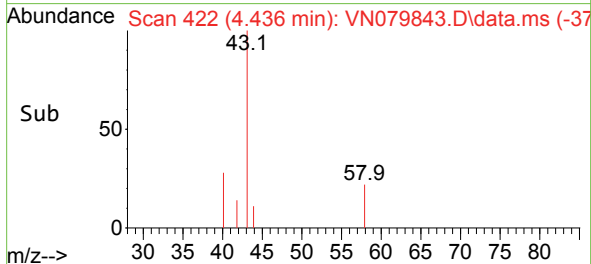
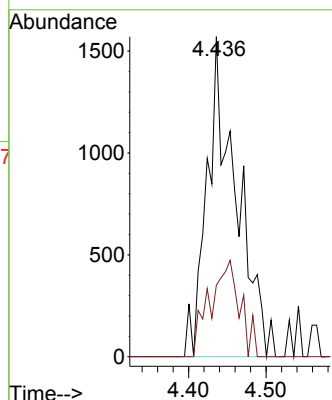
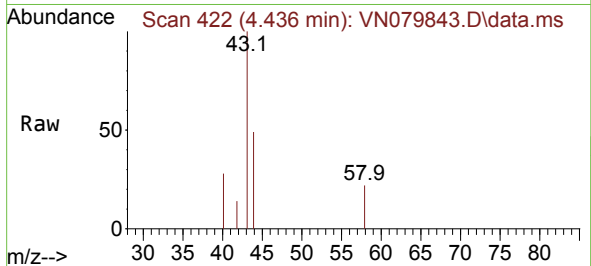




#16
Acetone
Concen: 3.105 ug/l
RT: 4.436 min Scan# 41
Delta R.T. 0.006 min
Lab File: VN079843.D
Acq: 03 Nov 2023 12:53

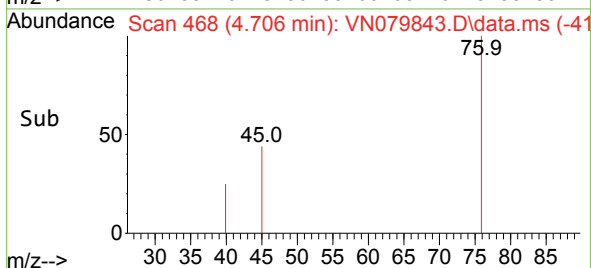
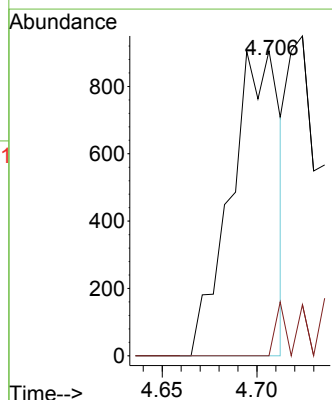
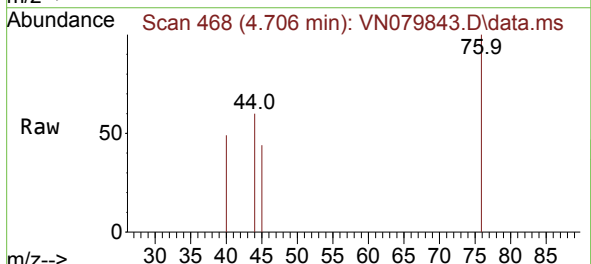
Instrument :
MSVOA_N
ClientSampleId :

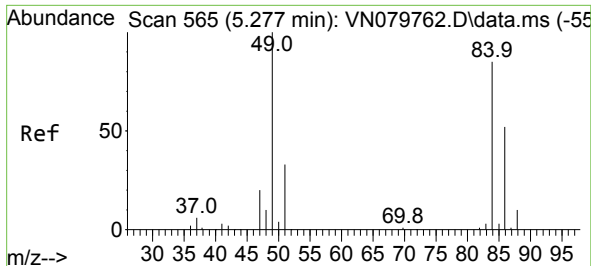
Tgt Ion: 43 Resp: 4107
Ion Ratio Lower Upper
43 100
58 22.3 28.0 42.0#



#17
Carbon Disulfide
Concen: 0.211 ug/l
RT: 4.706 min Scan# 468
Delta R.T. -0.006 min
Lab File: VN079843.D
Acq: 03 Nov 2023 12:53

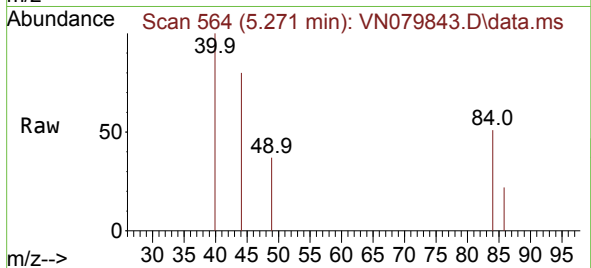
Tgt Ion: 76 Resp: 1616
Ion Ratio Lower Upper
76 100
78 0.0 7.4 11.0#



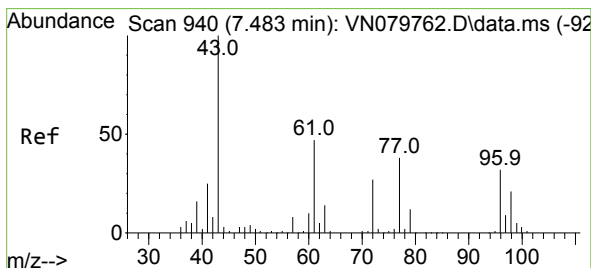
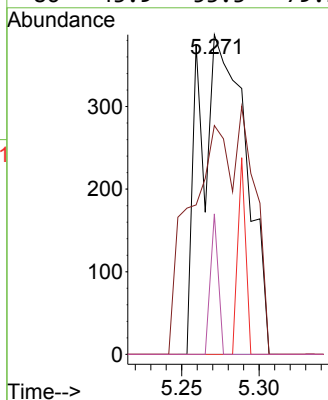
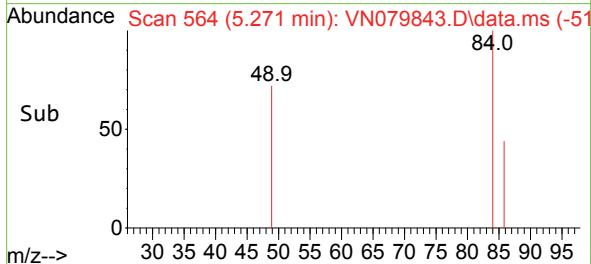


#20
Methylene Chloride
Concen: 0.240 ug/l
RT: 5.271 min Scan# 51
Delta R.T. 0.000 min
Lab File: VN079843.D
Acq: 03 Nov 2023 12:53

Instrument :
MSVOA_N
ClientSampleId :

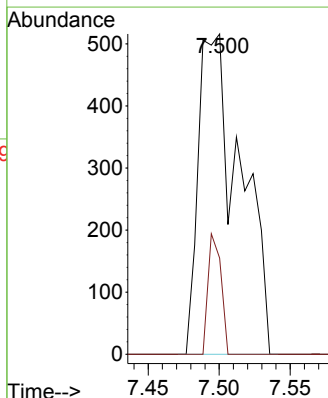
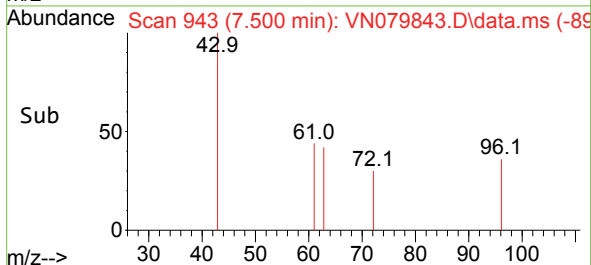
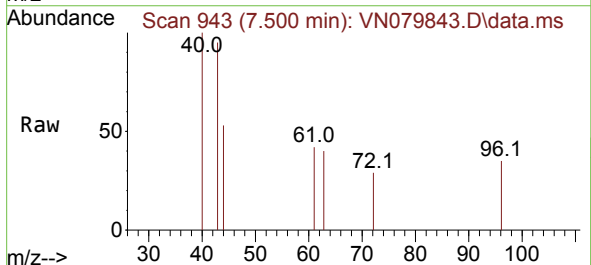


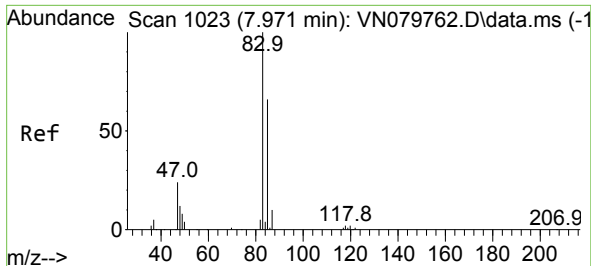
Tgt Ion:	84	Resp:	800
Ion	Ratio	Lower	Upper
84	100		
49	71.6	79.7	119.5#
51	0.0	25.2	37.8#
86	43.9	53.3	79.9#



#25
2-Butanone
Concen: 0.548 ug/l
RT: 7.500 min Scan# 943
Delta R.T. 0.012 min
Lab File: VN079843.D
Acq: 03 Nov 2023 12:53

Tgt Ion:	43	Resp:	1062
Ion	Ratio	Lower	Upper
43	100		
72	30.0	30.2	45.2#

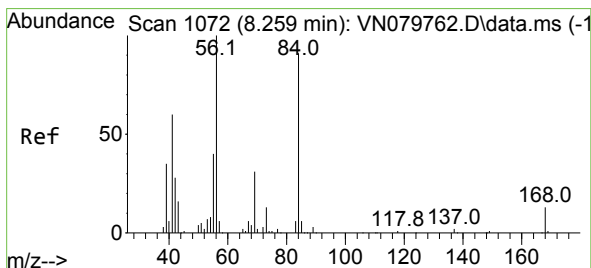
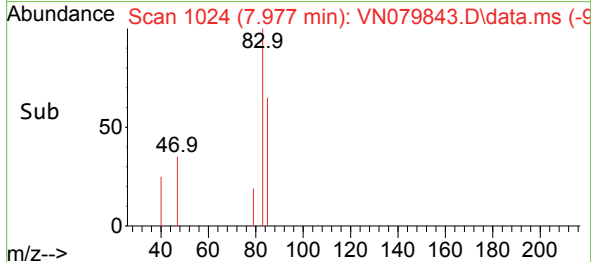
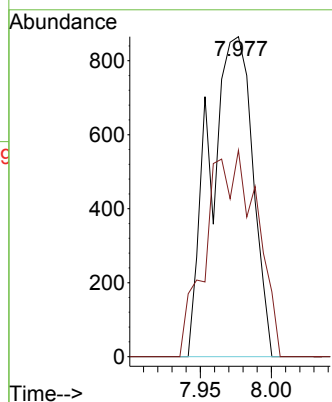
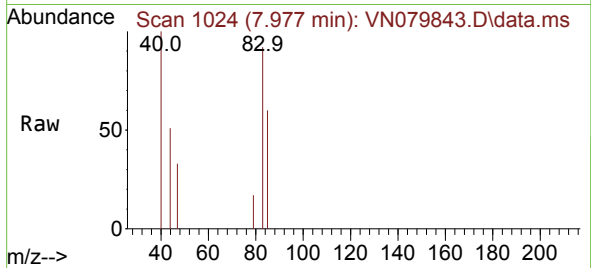




#30
Chloroform
Concen: 0.293 ug/l
RT: 7.977 min Scan# 1024
Delta R.T. 0.006 min
Lab File: VN079843.D
Acq: 03 Nov 2023 12:53

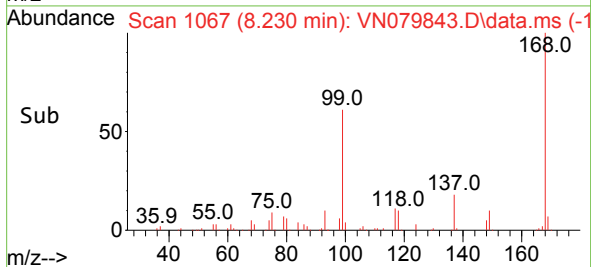
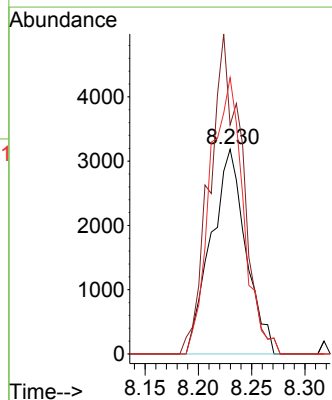
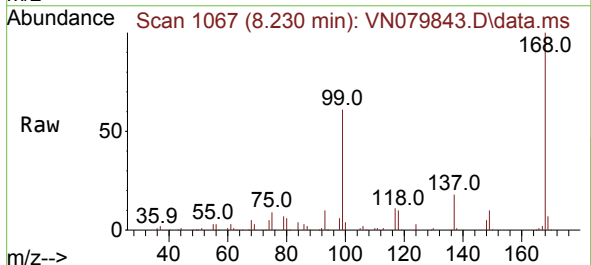
Instrument :
MSVOA_N
ClientSampleId :

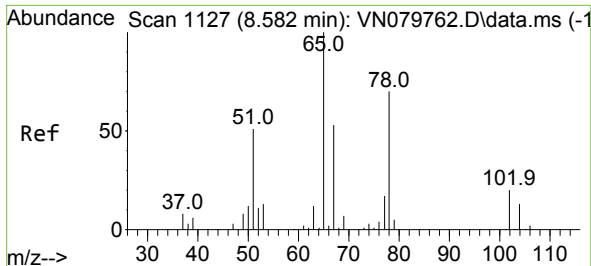
Tgt Ion: 83 Resp: 1826
Ion Ratio Lower Upper
83 100
85 64.5 55.4 83.0



#31
Cyclohexane
Concen: 1.446 ug/l
RT: 8.230 min Scan# 1067
Delta R.T. -0.029 min
Lab File: VN079843.D
Acq: 03 Nov 2023 12:53

Tgt Ion: 56 Resp: 7196
Ion Ratio Lower Upper
56 100
69 111.9 26.8 40.2#
84 135.0 81.8 122.6#





#33

1,2-Dichloroethane-d4

Concen: 53.378 ug/l

RT: 8.583 min Scan# 1127

Delta R.T. 0.000 min

Lab File: VN079843.D

Acq: 03 Nov 2023 12:53

Instrument :

MSVOA_N

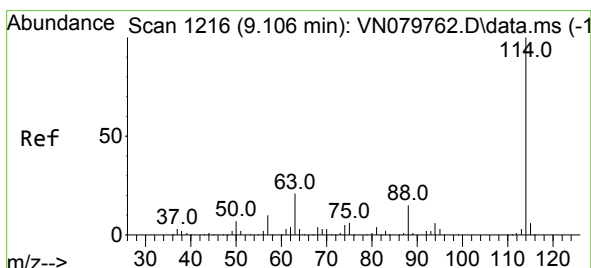
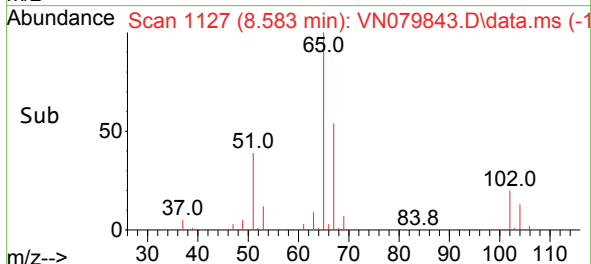
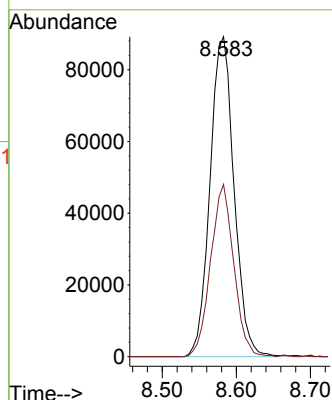
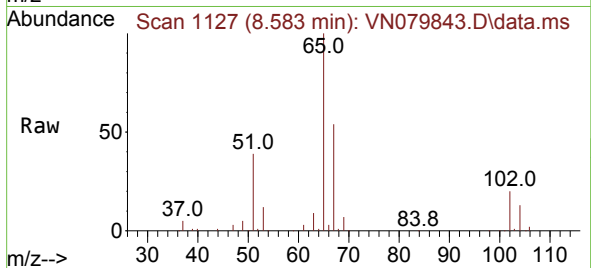
ClientSampleId :

Tgt Ion: 65 Resp: 200993

Ion Ratio Lower Upper

65 100

67 51.9 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: VN079843.D

Acq: 03 Nov 2023 12:53

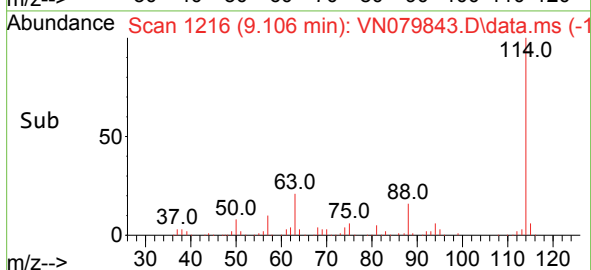
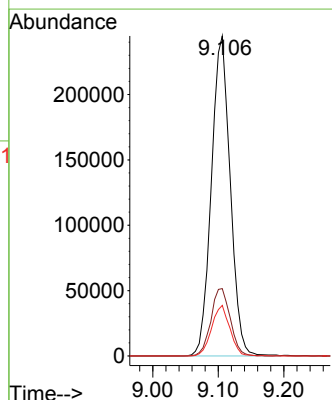
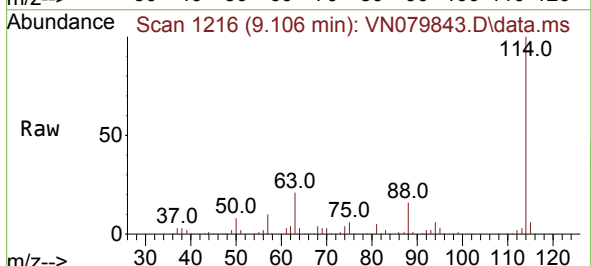
Tgt Ion: 114 Resp: 487962

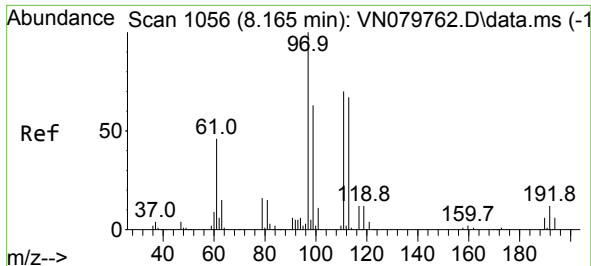
Ion Ratio Lower Upper

114 100

63 21.1 0.0 36.4

88 15.8 0.0 30.6





#35

Dibromofluoromethane

Concen: 48.016 ug/l

RT: 8.171 min Scan# 1056

Delta R.T. 0.000 min

Lab File: VN079843.D

Acq: 03 Nov 2023 12:53

Instrument :

MSVOA_N

ClientSampleId :

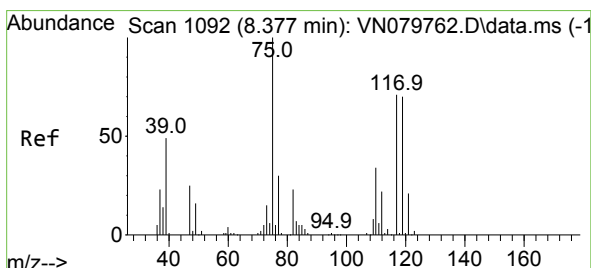
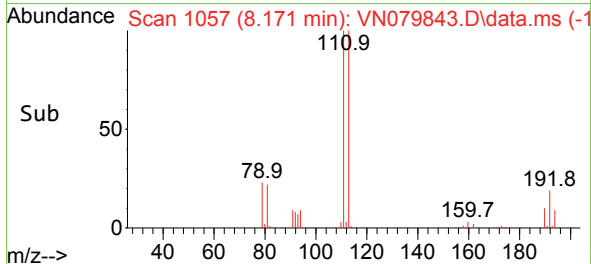
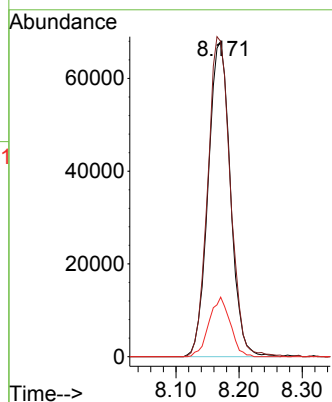
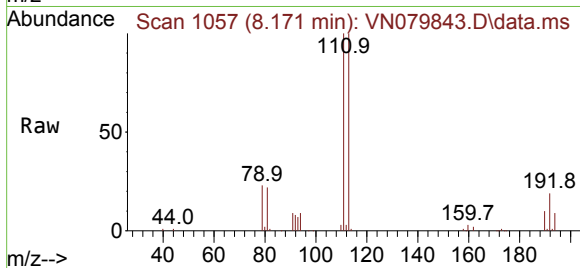
Tgt Ion:113 Resp: 165827

Ion Ratio Lower Upper

113 100

111 103.2 82.6 123.8

192 18.0 12.7 19.1



#36

1,1-Dichloropropene

Concen: 4.701 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.153 min

Lab File: VN079843.D

Acq: 03 Nov 2023 12:53

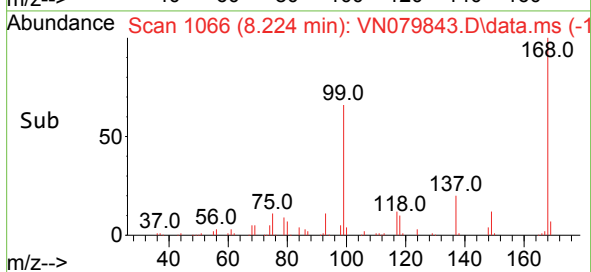
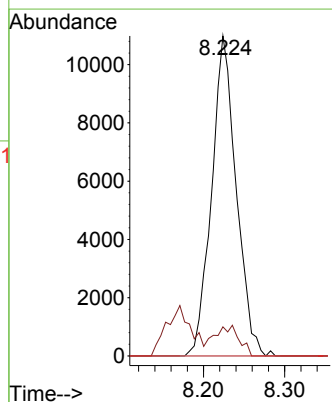
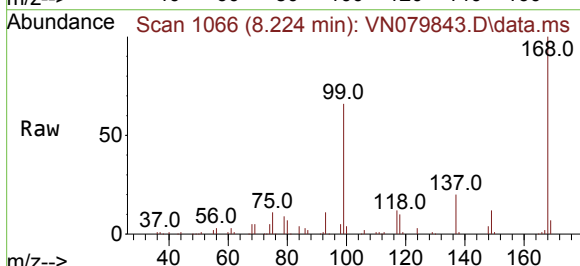
Tgt Ion: 75 Resp: 23181

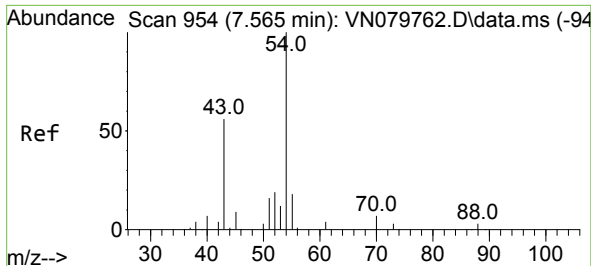
Ion Ratio Lower Upper

75 100

110 9.6 19.1 57.3#

77 0.0 25.0 37.4#





#37

Ethyl Acetate

Concen: 0.235 ug/l

RT: 7.500 min Scan# 94

Delta R.T. -0.064 min

Lab File: VN079843.D

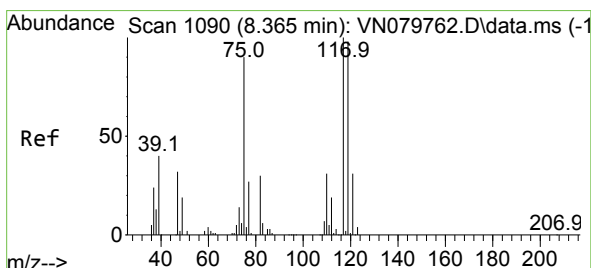
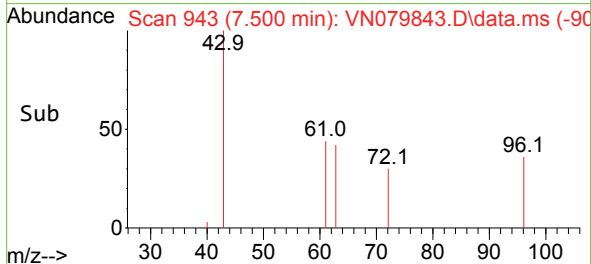
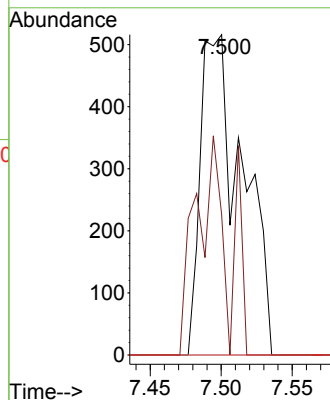
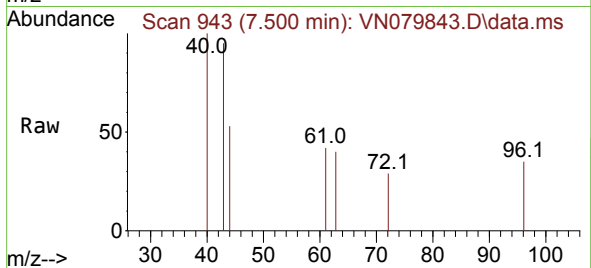
Acq: 03 Nov 2023 12:53

Instrument :

MSVOA_N

ClientSampleId :

Tgt Ion: 43	Resp:	1062
Ion	Ratio	Lower Upper
43	100	
61	40.4	13.2 19.8#
70	0.0	11.3 16.9#



#38

Carbon Tetrachloride

Concen: 5.541 ug/l

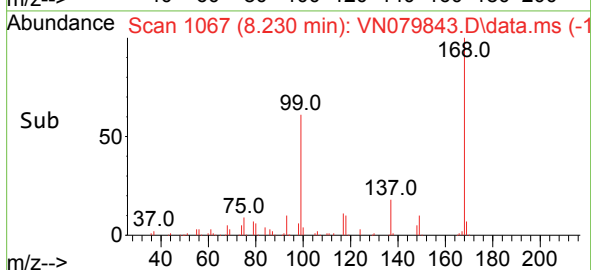
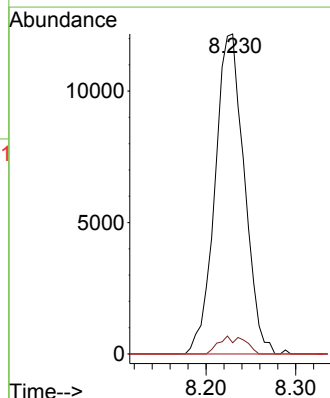
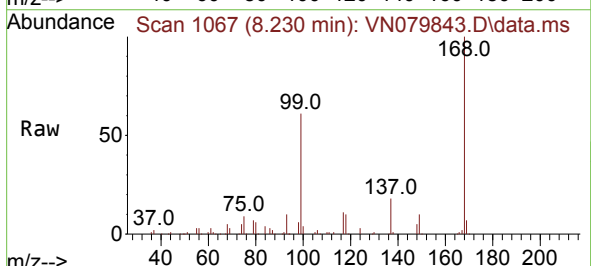
RT: 8.230 min Scan# 1067

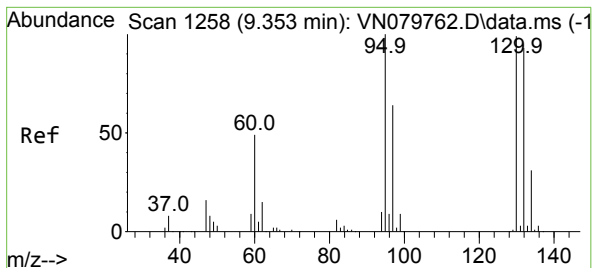
Delta R.T. -0.129 min

Lab File: VN079843.D

Acq: 03 Nov 2023 12:53

Tgt Ion: 117	Resp:	27537
Ion	Ratio	Lower Upper
117	100	
119	3.5	77.3 115.9#
121	0.0	23.3 34.9#





#44

Trichloroethene

Concen: 5.340 ug/l

RT: 9.353 min Scan# 11

Delta R.T. 0.000 min

Lab File: VN079843.D

Acq: 03 Nov 2023 12:53

Instrument :

MSVOA_N

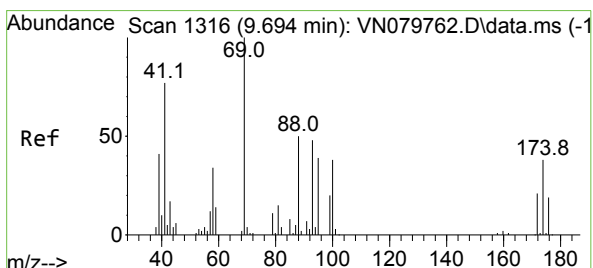
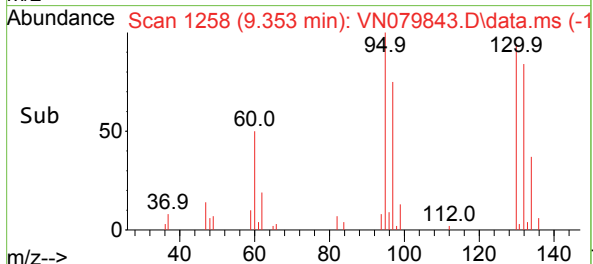
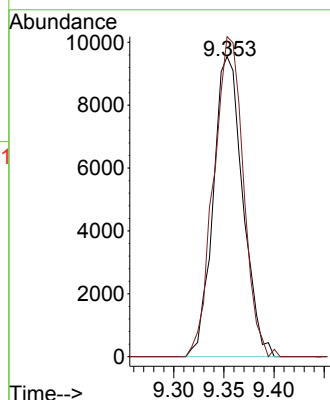
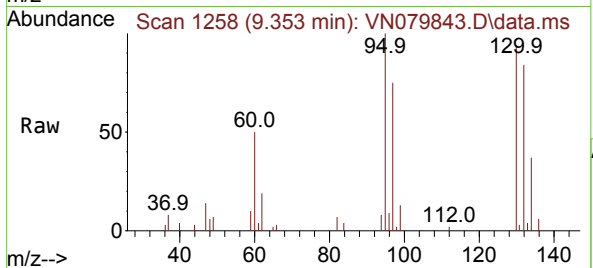
ClientSampleId :

Tgt Ion:130 Resp: 19570

Ion Ratio Lower Upper

130 100

95 106.6 0.0 204.6



#49

1,4-Dioxane

Concen: 2.232 ug/l

RT: 9.688 min Scan# 1315

Delta R.T. -0.006 min

Lab File: VN079843.D

Acq: 03 Nov 2023 12:53

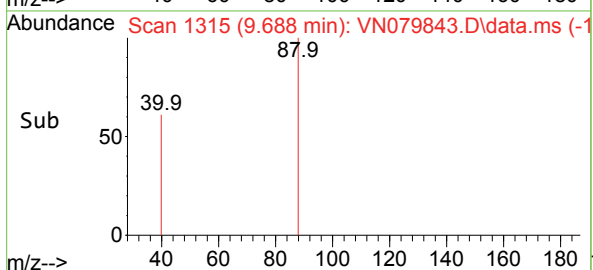
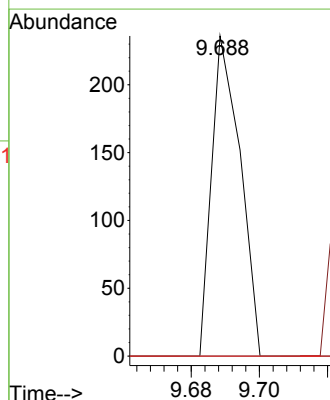
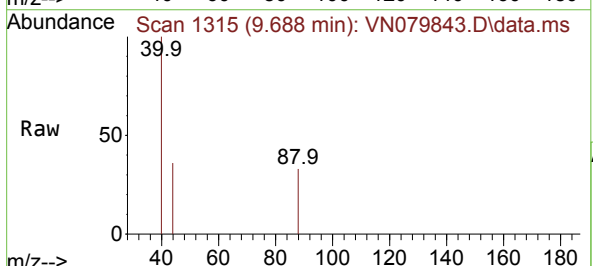
Tgt Ion: 88 Resp: 137

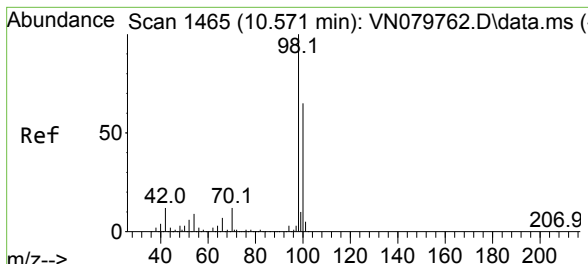
Ion Ratio Lower Upper

88 100

43 0.0 17.0 25.6#

58 0.0 47.0 70.4#

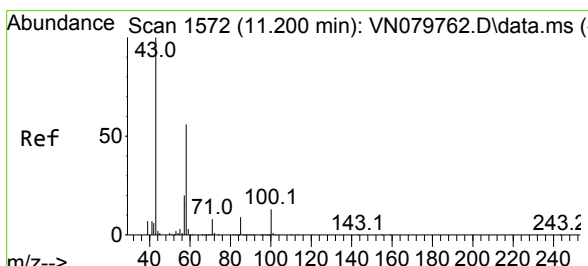
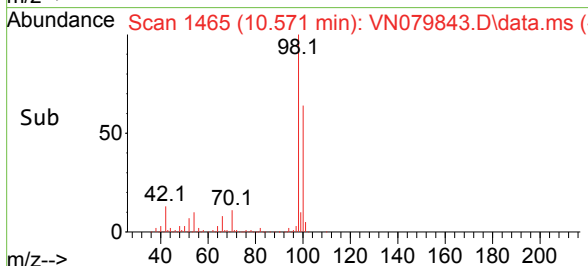
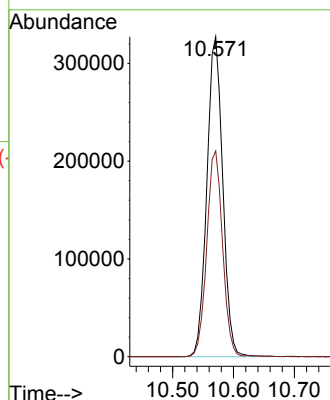
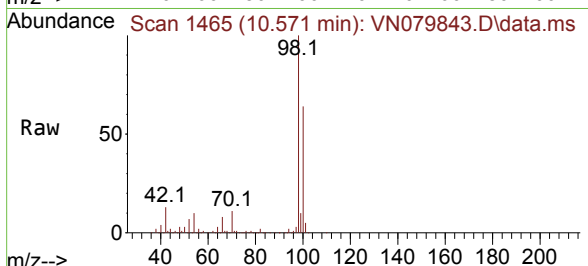




#50
Toluene-d8
Concen: 46.595 ug/l
RT: 10.571 min Scan# 1465
Delta R.T. 0.000 min
Lab File: VN079843.D
Acq: 03 Nov 2023 12:53

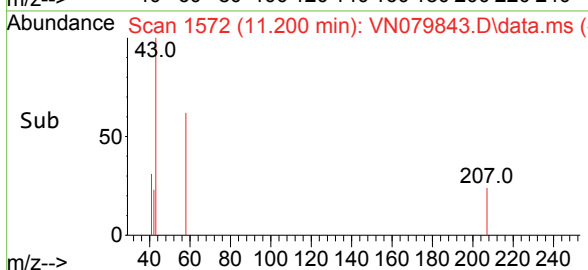
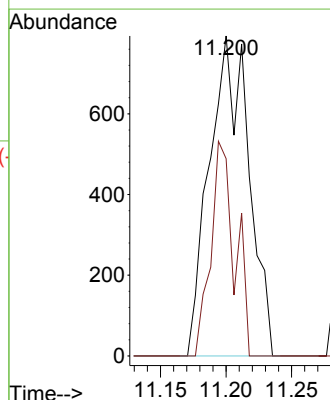
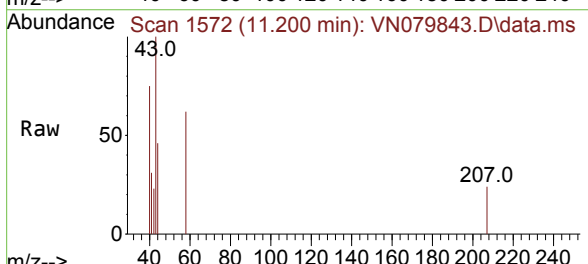
Instrument :
MSVOA_N
ClientSampleId :

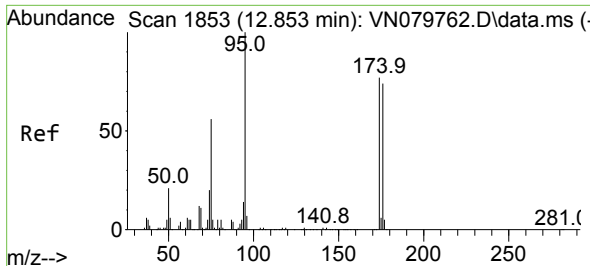
Tgt Ion: 98 Resp: 592409
Ion Ratio Lower Upper
98 100
100 64.2 52.0 78.0



#59
2-Hexanone
Concen: 0.484 ug/l
RT: 11.200 min Scan# 1572
Delta R.T. 0.000 min
Lab File: VN079843.D
Acq: 03 Nov 2023 12:53

Tgt Ion: 43 Resp: 1654
Ion Ratio Lower Upper
43 100
58 40.5 31.7 95.1

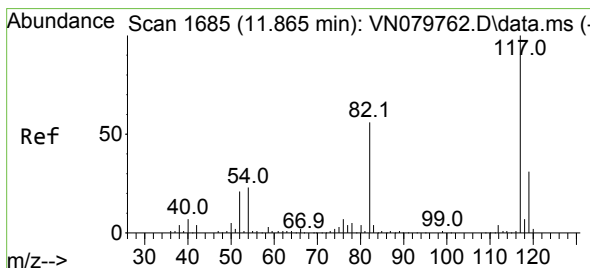
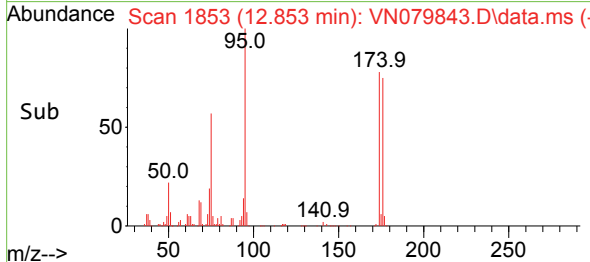
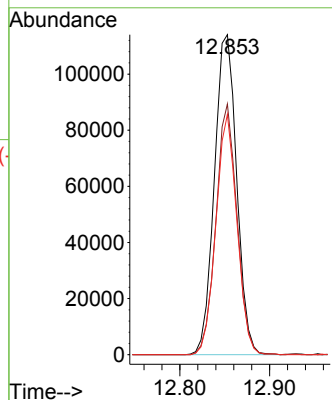
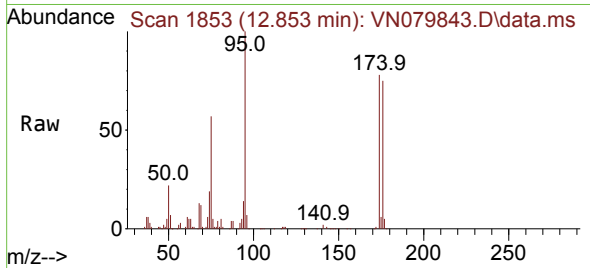




#62
4-Bromofluorobenzene
Concen: 46.656 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.000 min
Lab File: VN079843.D
Acq: 03 Nov 2023 12:53

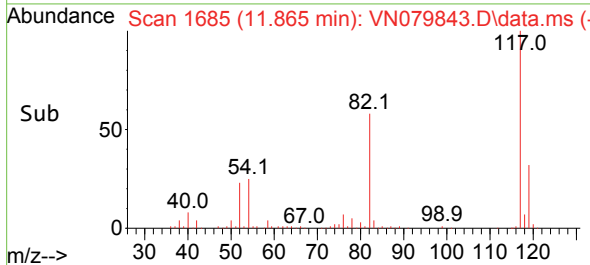
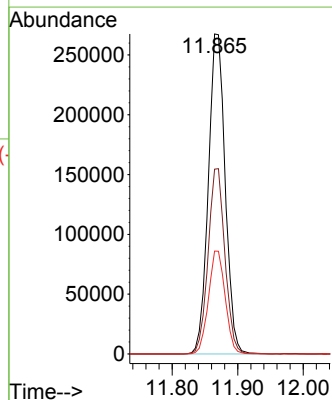
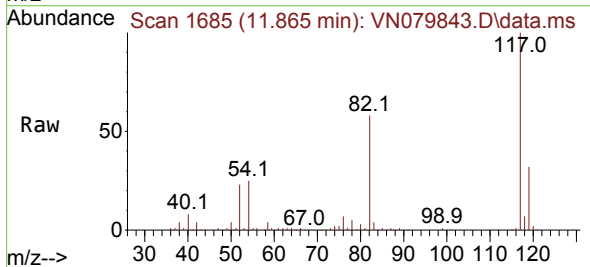
Instrument :
MSVOA_N
ClientSampleId :

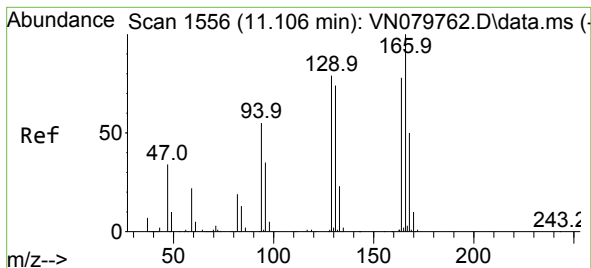
Tgt Ion: 95 Resp: 196728
Ion Ratio Lower Upper
95 100
174 73.9 0.0 143.8
176 70.8 0.0 135.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. -0.006 min
Lab File: VN079843.D
Acq: 03 Nov 2023 12:53

Tgt Ion: 117 Resp: 479164
Ion Ratio Lower Upper
117 100
82 57.8 44.0 66.0
119 32.1 25.6 38.4





#64

Tetrachloroethene

Concen: 0.514 ug/l

RT: 11.106 min Scan# 1556

Delta R.T. 0.000 min

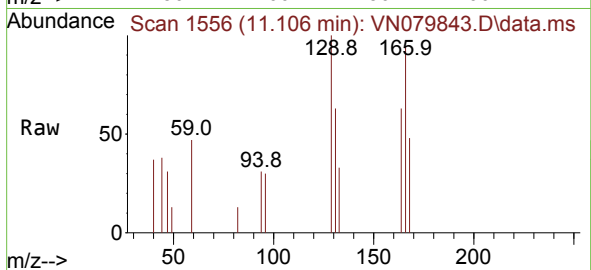
Lab File: VN079843.D

Acq: 03 Nov 2023 12:53

Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion:164 Resp: 1595

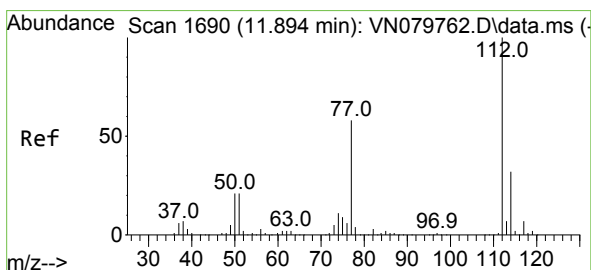
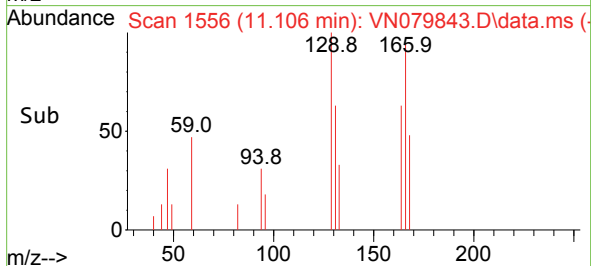
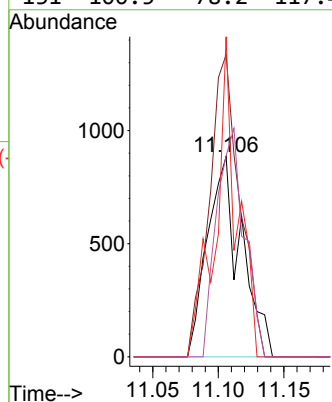
Ion Ratio Lower Upper

164 100

166 151.0 101.4 152.0

129 159.9 82.4 123.6#

131 100.5 78.2 117.4



#65

Chlorobenzene

Concen: 0.392 ug/l

RT: 11.894 min Scan# 1690

Delta R.T. 0.000 min

Lab File: VN079843.D

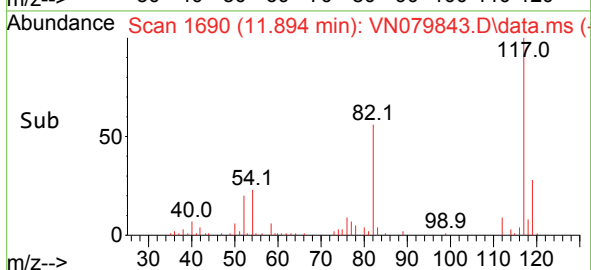
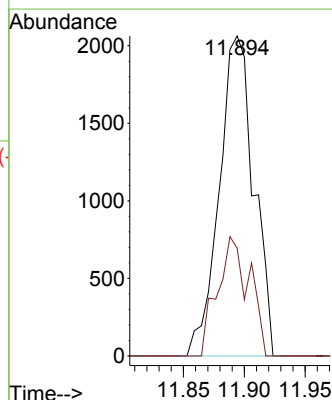
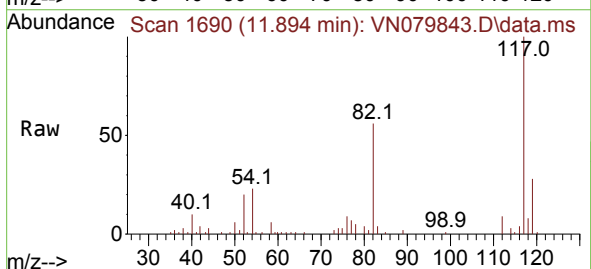
Acq: 03 Nov 2023 12:53

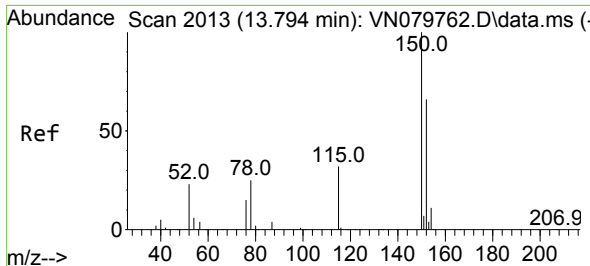
Tgt Ion:112 Resp: 4071

Ion Ratio Lower Upper

112 100

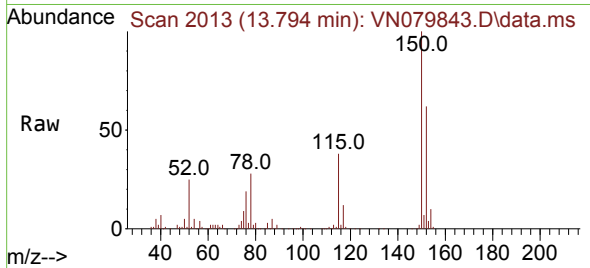
114 33.6 25.0 37.4



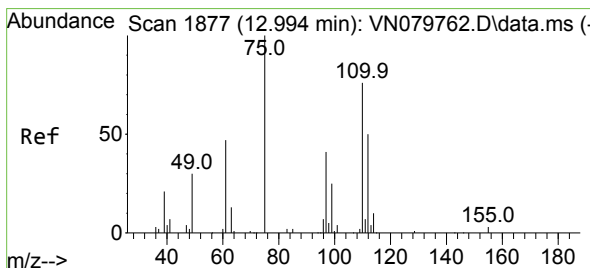
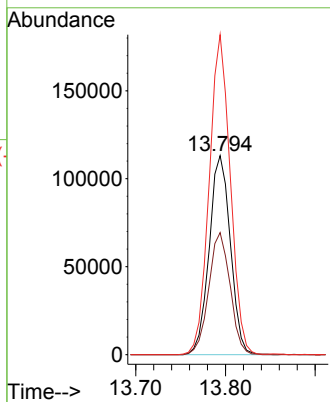
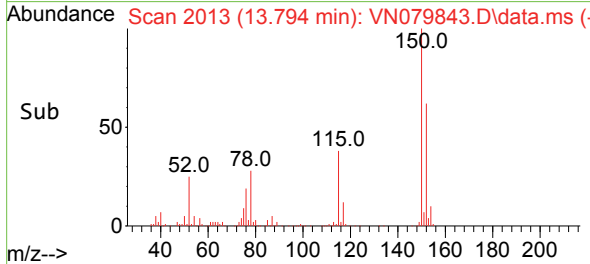


#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.794 min Scan# 20
 Delta R.T. 0.000 min
 Lab File: VN079843.D
 Acq: 03 Nov 2023 12:53

Instrument :
 MSVOA_N
 ClientSampleId :

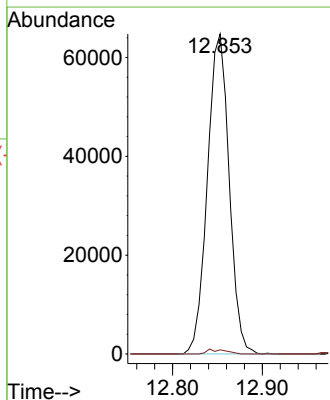
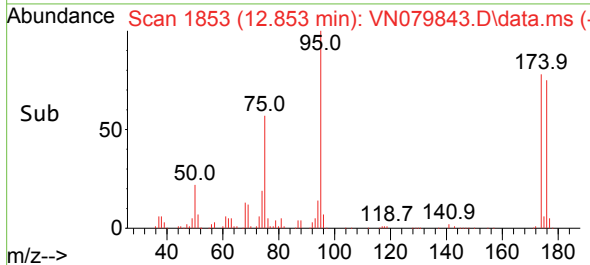
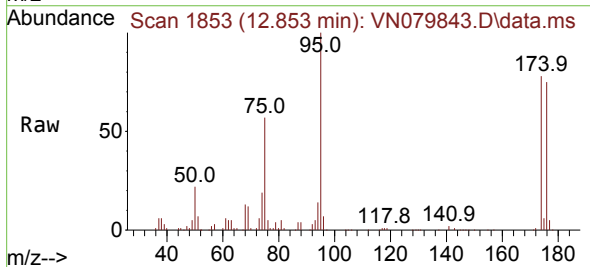


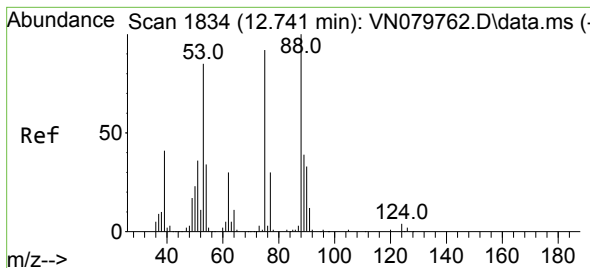
Tgt Ion:152 Resp: 185522
 Ion Ratio Lower Upper
 152 100
 115 61.7 32.3 96.8
 150 159.7 0.0 355.8



#76
 1,2,3-Trichloropropane
 Concen: 25.018 ug/l
 RT: 12.853 min Scan# 1853
 Delta R.T. -0.141 min
 Lab File: VN079843.D
 Acq: 03 Nov 2023 12:53

Tgt Ion: 75 Resp: 108966
 Ion Ratio Lower Upper
 75 100
 77 1.2 84.5 253.5#

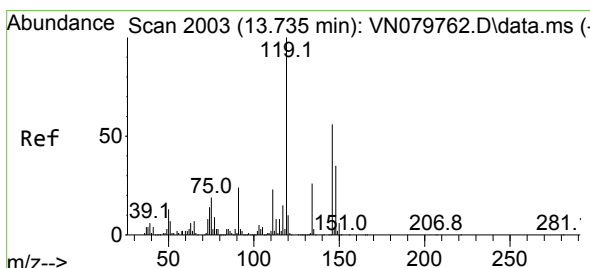
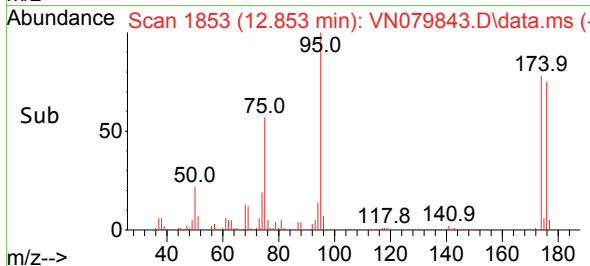
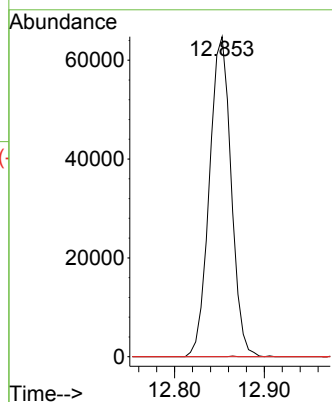
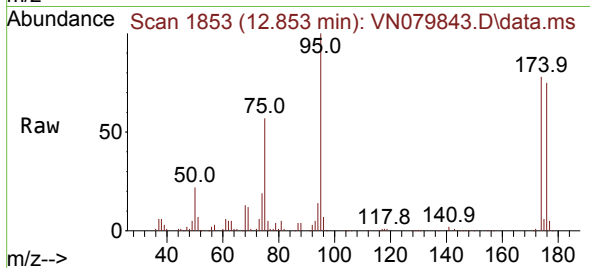




#81
 trans-1,4-Dichloro-2-butene
 Concen: 68.068 ug/l
 RT: 12.853 min Scan# 1853
 Delta R.T. 0.118 min
 Lab File: VN079843.D
 Acq: 03 Nov 2023 12:53

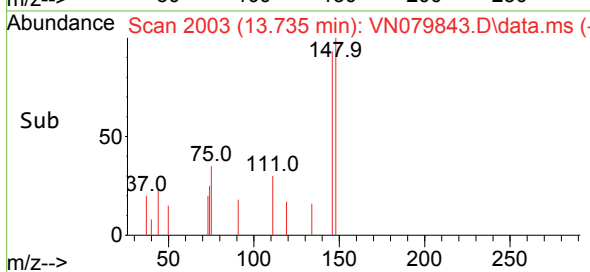
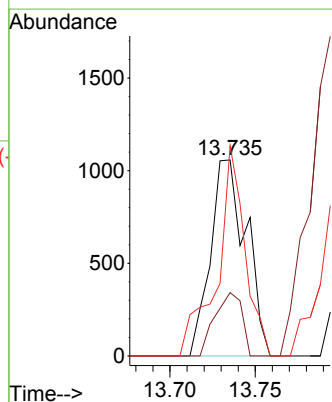
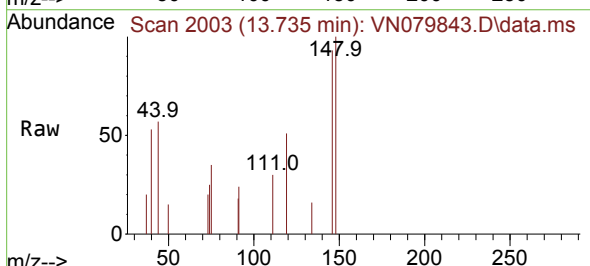
Instrument :
 MSVOA_N
 ClientSampleId :

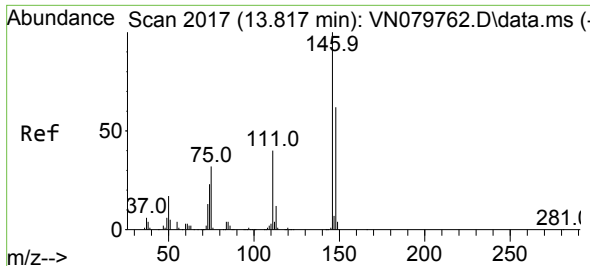
Tgt Ion: 75 Resp: 108966
 Ion Ratio Lower Upper
 75 100
 53 0.0 67.4 101.2#
 89 0.0 38.8 58.2#



#87
 1,3-Dichlorobenzene
 Concen: 0.241 ug/l
 RT: 13.735 min Scan# 2003
 Delta R.T. 0.000 min
 Lab File: VN079843.D
 Acq: 03 Nov 2023 12:53

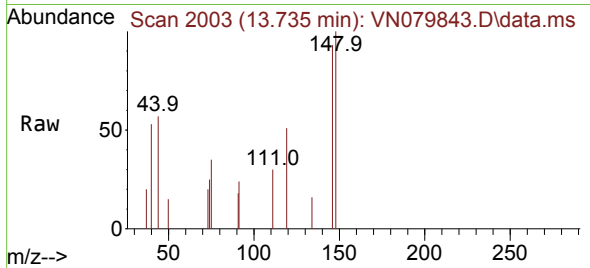
Tgt Ion:146 Resp: 1547
 Ion Ratio Lower Upper
 146 100
 111 24.4 22.1 66.3
 148 83.1 32.0 96.0



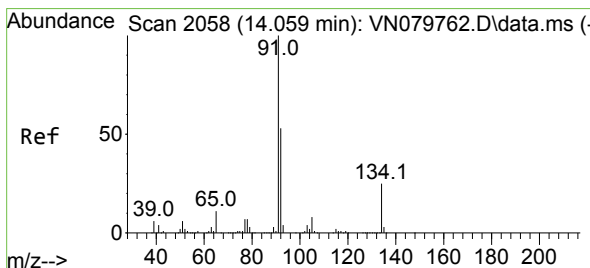
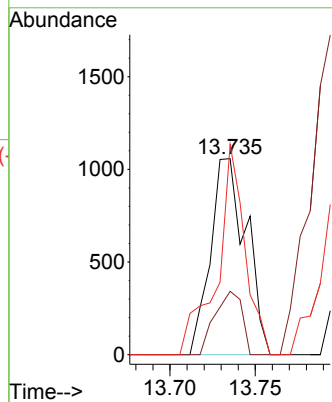
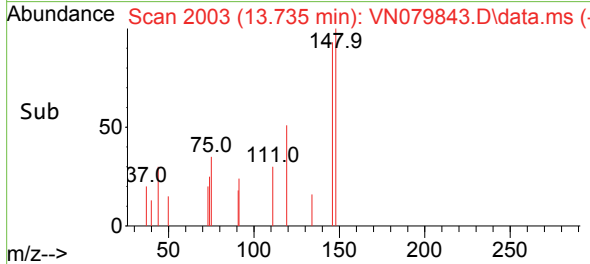


#88
1,4-Dichlorobenzene
Concen: 0.238 ug/l
RT: 13.735 min Scan# 2017
Delta R.T. -0.082 min
Lab File: VN079843.D
Acq: 03 Nov 2023 12:53

Instrument :
MSVOA_N
ClientSampleId :

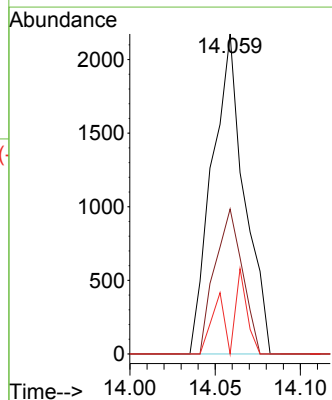
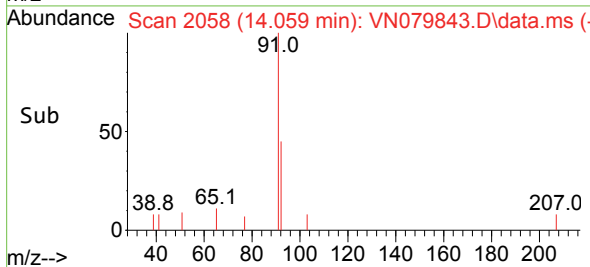
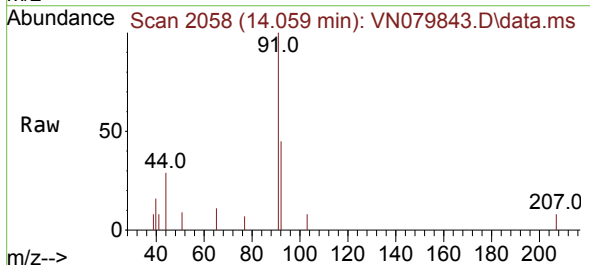


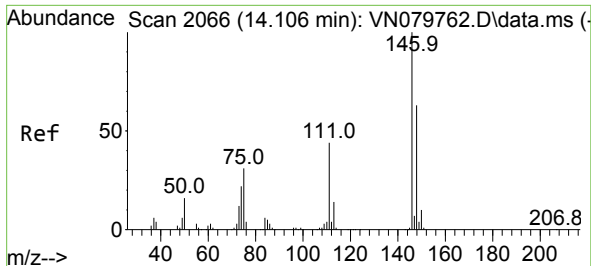
Tgt Ion:146 Resp: 1547
Ion Ratio Lower Upper
146 100
111 24.4 20.6 61.8
148 83.1 31.6 94.8



#89
n-Butylbenzene
Concen: 0.328 ug/l
RT: 14.059 min Scan# 2058
Delta R.T. 0.000 min
Lab File: VN079843.D
Acq: 03 Nov 2023 12:53

Tgt Ion: 91 Resp: 2865
Ion Ratio Lower Upper
91 100
92 38.7 26.4 79.0
134 9.2 12.6 37.6#





#91

1,2-Dichlorobenzene

Concen: 0.242 ug/l

RT: 14.106 min Scan# 2066

Delta R.T. 0.000 min

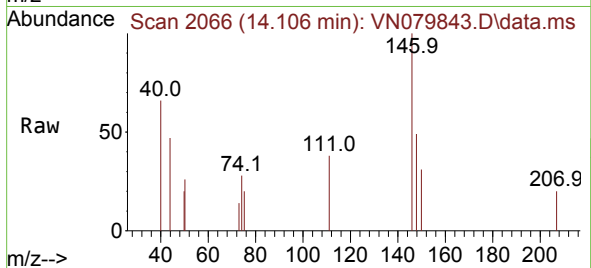
Lab File: VN079843.D

Acq: 03 Nov 2023 12:53

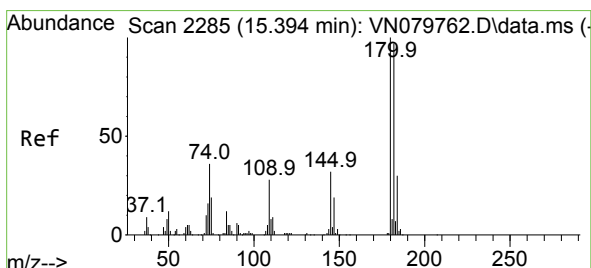
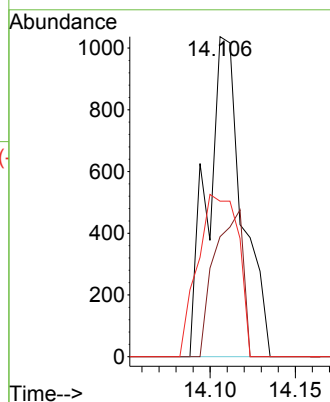
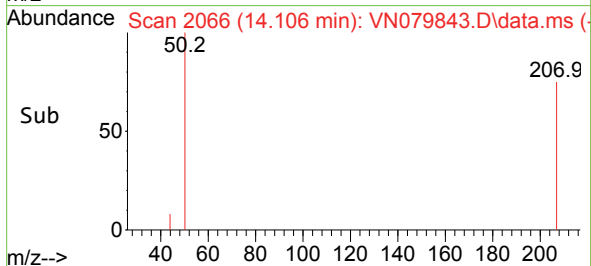
Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion:	146	Resp:	1464
Ion	Ratio	Lower	Upper
146	100		
111	37.9	22.0	66.0
148	59.2	31.8	95.3



#93

1,2,4-Trichlorobenzene

Concen: 0.673 ug/l

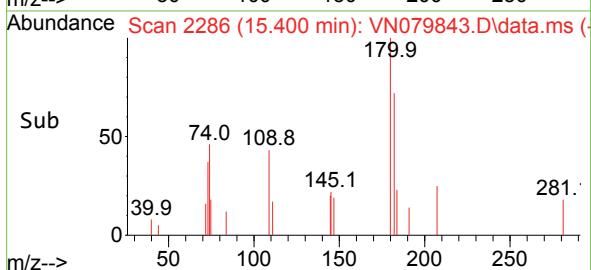
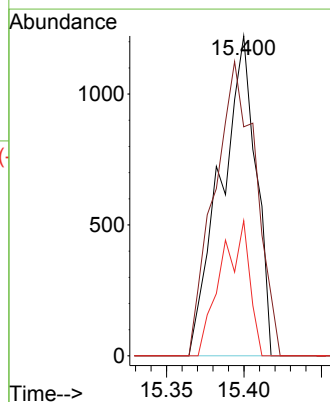
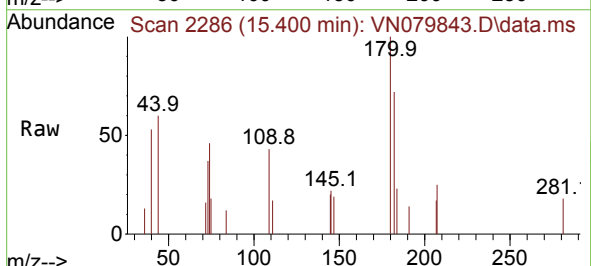
RT: 15.400 min Scan# 2286

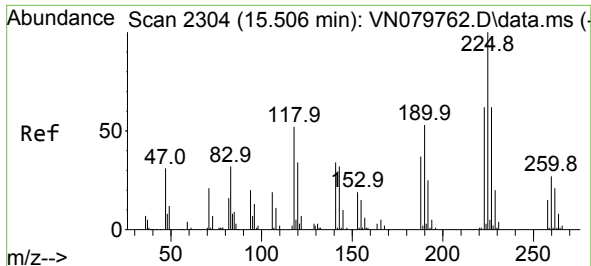
Delta R.T. 0.006 min

Lab File: VN079843.D

Acq: 03 Nov 2023 12:53

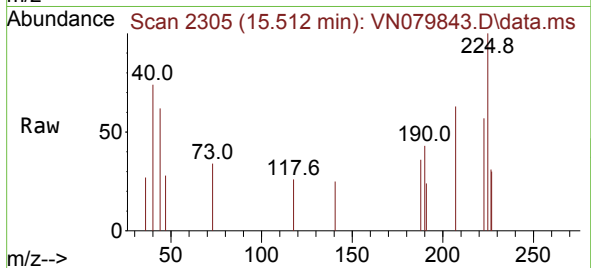
Tgt Ion:	180	Resp:	1937
Ion	Ratio	Lower	Upper
180	100		
182	107.7	46.1	138.2
145	34.0	16.6	49.8



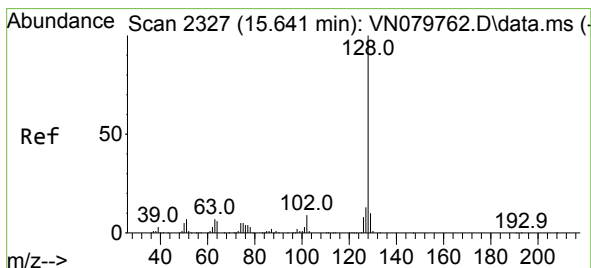
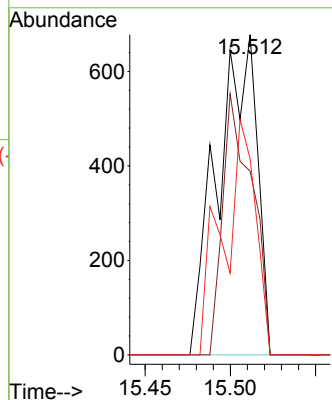
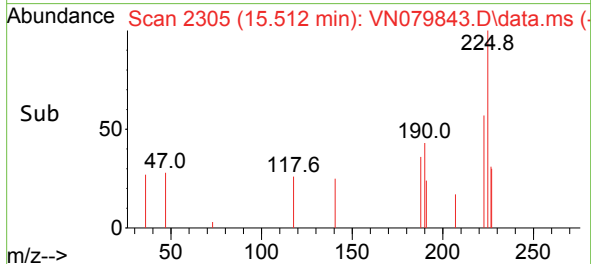


#94
Hexachlorobutadiene
Concen: 0.838 ug/l
RT: 15.512 min Scan# 21
Delta R.T. 0.006 min
Lab File: VN079843.D
Acq: 03 Nov 2023 12:53

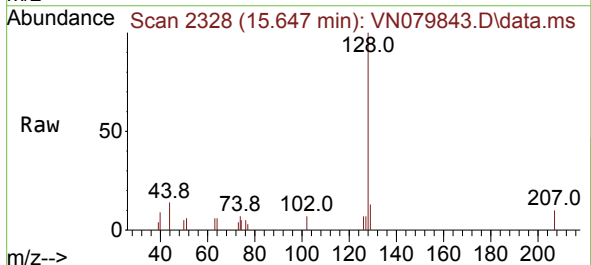
Instrument :
MSVOA_N
ClientSampleId :



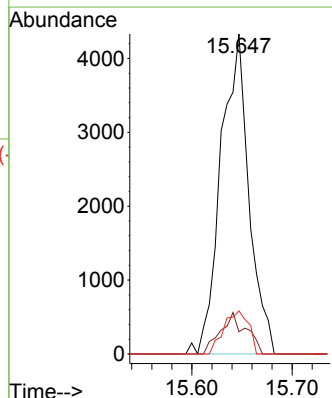
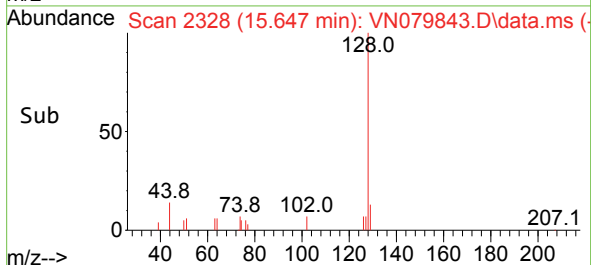
Tgt Ion:225 Resp: 1093
Ion Ratio Lower Upper
225 100
223 60.6 31.3 93.8
227 60.6 31.9 95.9

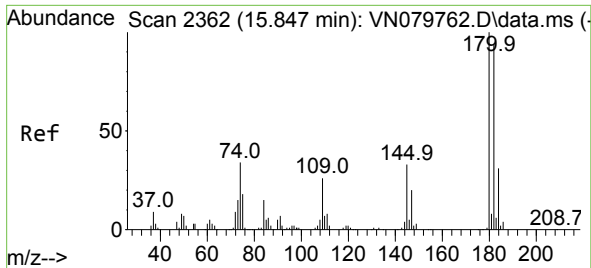


#95
Naphthalene
Concen: 0.861 ug/l
RT: 15.647 min Scan# 2328
Delta R.T. 0.006 min
Lab File: VN079843.D
Acq: 03 Nov 2023 12:53



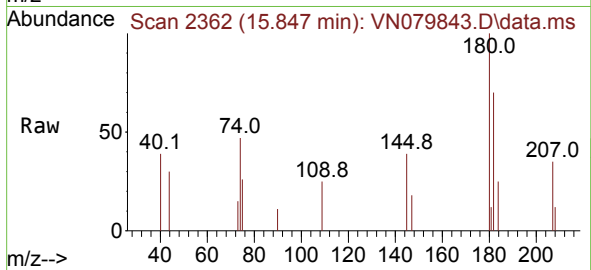
Tgt Ion:128 Resp: 8405
Ion Ratio Lower Upper
128 100
127 11.8 10.0 15.0
129 11.9 8.7 13.1





#96
 1,2,3-Trichlorobenzene
 Concen: 0.794 ug/l
 RT: 15.847 min Scan# 21
 Delta R.T. 0.006 min
 Lab File: VN079843.D
 Acq: 03 Nov 2023 12:53

Instrument :
 MSVOA_N
 ClientSampleId :



Tgt Ion:	180	Resp:	2240
Ion Ratio	Lower	Upper	
180	100		
182	105.7	46.2	138.6
145	34.9	17.5	52.6

