

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN013123\
 Data File : VN076481.D
 Acq On : 31 Jan 2023 12:35
 Operator : JC\MD
 Sample : IBLK
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 9 Sample Multiplier: 1

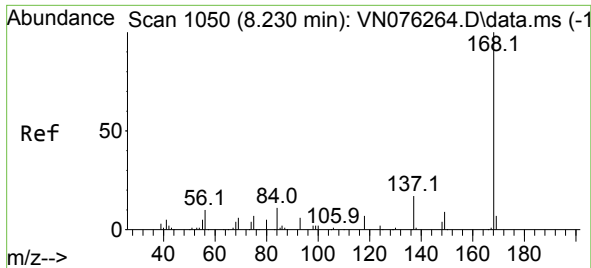
Instrument :
 MSVOA_N
 ClientSampleId :
 IBLK

Quant Time: Feb 01 00:47:50 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011623W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jan 17 03:59:22 2023
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.229	168	470255	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	756301	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	667973	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	295031	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.582	65	270916	51.452	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	= 102.900%	
35) Dibromofluoromethane	8.177	113	226588	47.895	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 95.780%	
50) Toluene-d8	10.570	98	883554	50.570	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	= 101.140%	
62) 4-Bromofluorobenzene	12.847	95	306582	53.750	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	= 107.500%	
Target Compounds						
					Qvalue	
11) Tert butyl alcohol	5.524	59	479	0.680	ug/l #	72
20) Methylene Chloride	5.283	84	1542	Below Cal	#	70
31) Cyclohexane	8.229	56	10361	1.281	ug/l #	5
36) 1,1-Dichloropropene	8.229	75	36623	5.448	ug/l #	50
38) Carbon Tetrachloride	8.229	117	50489	6.735	ug/l #	17
41) Methacrylonitrile	7.800	41	854	0.302	ug/l #	48
59) 2-Hexanone	11.188	43	1021	0.274	ug/l	79
66) 1,1,1,2-Tetrachloroethane	11.959	131	1262	0.240	ug/l #	9
71) Bromoform	12.659	173	3514	0.926	ug/l #	29
74) N-amyl acetate	12.494	43	1321	0.201	ug/l #	26
75) 1,1,2,2-Tetrachloroethane	12.917	83	1932	0.294	ug/l #	53
76) 1,2,3-Trichloropropane	12.847	75	158975	29.184	ug/l #	1
77) Bromobenzene	13.094	156	492	Below Cal		83
80) 1,3,5-Trimethylbenzene	13.153	105	8466	0.443	ug/l #	33
81) trans-1,4-Dichloro-2-b...	12.847	75	158975	89.654	ug/l #	13
84) 1,2,4-Trimethylbenzene	13.488	105	7673	0.400	ug/l #	56
85) sec-Butylbenzene	13.617	105	16977	0.719	ug/l	79
87) 1,3-Dichlorobenzene	13.735	146	2263	0.210	ug/l #	66
88) 1,4-Dichlorobenzene	13.800	146	2814	0.376	ug/l #	1
90) Hexachloroethane	14.406	117	942	0.281	ug/l	90
92) 1,2-Dibromo-3-Chloropr...	14.729	75	408	0.358	ug/l #	1
93) 1,2,4-Trichlorobenzene	15.394	180	2664	1.806	ug/l #	86
95) Naphthalene	15.635	128	28894	3.654	ug/l #	1
96) 1,2,3-Trichlorobenzene	15.847	180	2115	1.573	ug/l #	1

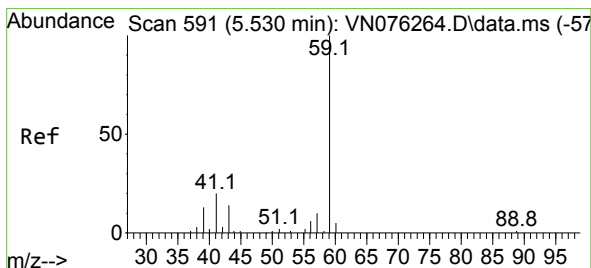
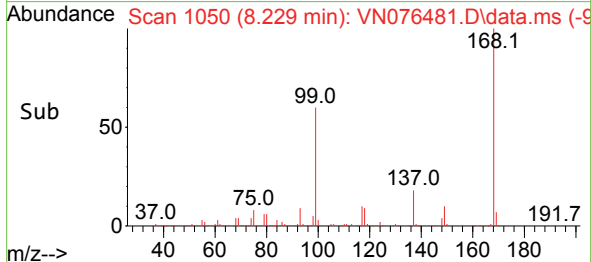
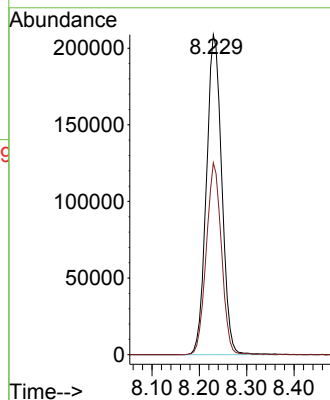
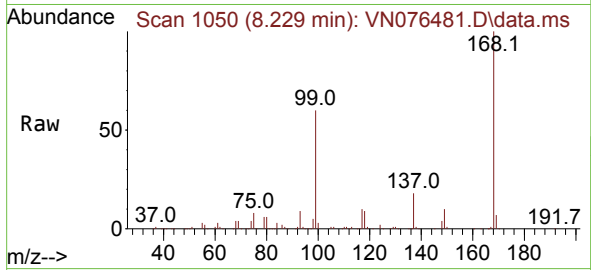
(#) = qualifier out of range (m) = manual integration (+) = signals summed



#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.229 min Scan# 1050
Delta R.T. -0.001 min
Lab File: VN076481.D
Acq: 31 Jan 2023 12:35

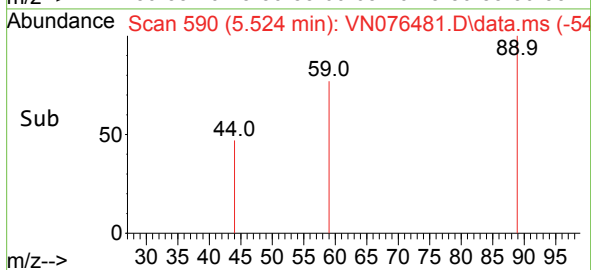
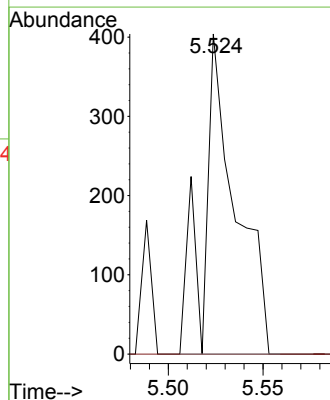
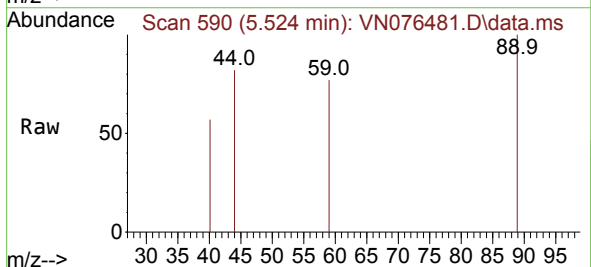
Instrument :
MSVOA_N
ClientSampleId :
IBLK

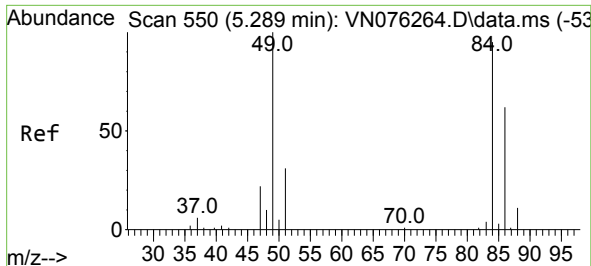
Tgt Ion:168 Resp: 470255
Ion Ratio Lower Upper
168 100
99 59.9 41.6 62.4



#11
Tert butyl alcohol
Concen: 0.680 ug/l
RT: 5.524 min Scan# 590
Delta R.T. -0.006 min
Lab File: VN076481.D
Acq: 31 Jan 2023 12:35

Tgt Ion: 59 Resp: 479
Ion Ratio Lower Upper
59 100
57 0.0 8.5 12.7#

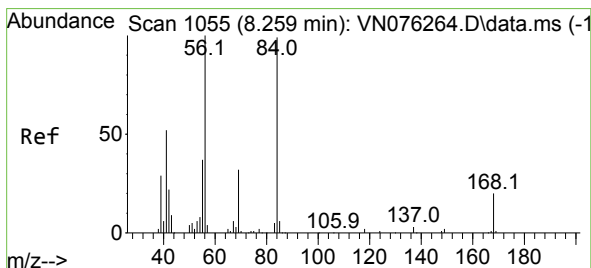
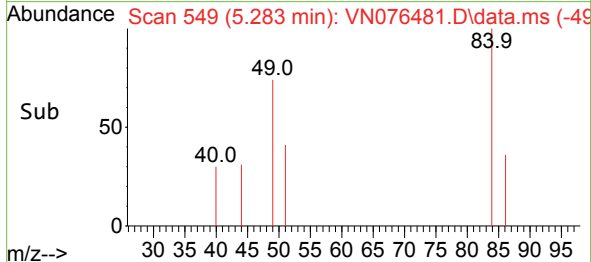
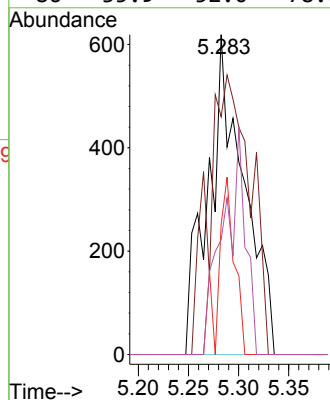
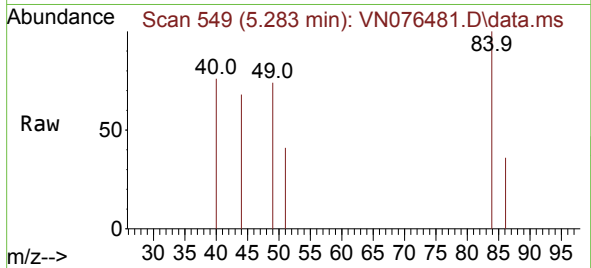




#20
Methylene Chloride
Concen: Below Cal
RT: 5.283 min Scan# 549
Delta R.T. -0.006 min
Lab File: VN076481.D
Acq: 31 Jan 2023 12:35

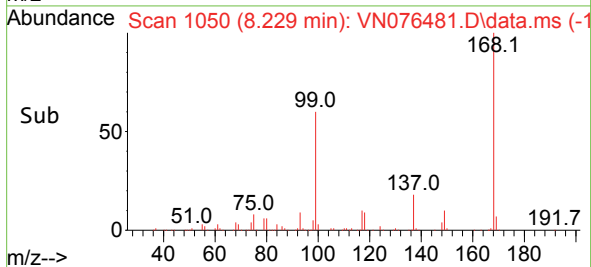
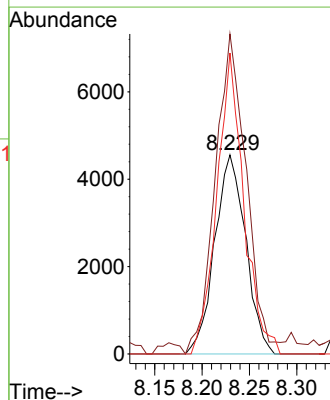
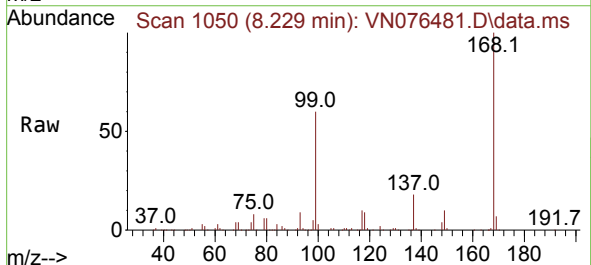
Instrument :
MSVOA_N
ClientSampleId :
IBLK

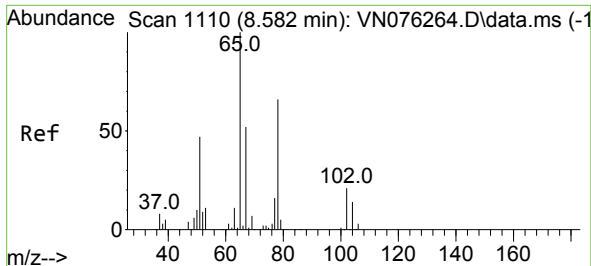
Tgt Ion: 84	Resp: 1542
Ion Ratio	Lower Upper
84 100	
49 74.3	84.5 126.7#
51 40.7	26.0 39.0#
86 35.9	52.0 78.0#



#31
Cyclohexane
Concen: 1.281 ug/l
RT: 8.229 min Scan# 1050
Delta R.T. -0.030 min
Lab File: VN076481.D
Acq: 31 Jan 2023 12:35

Tgt Ion: 56	Resp: 10361
Ion Ratio	Lower Upper
56 100	
69 156.7	25.8 38.8#
84 151.2	79.0 118.4#





#33

1,2-Dichloroethane-d4

Concen: 51.452 ug/l

RT: 8.582 min Scan# 1110

Delta R.T. 0.000 min

Lab File: VN076481.D

Acq: 31 Jan 2023 12:35

Instrument :

MSVOA_N

ClientSampleId :

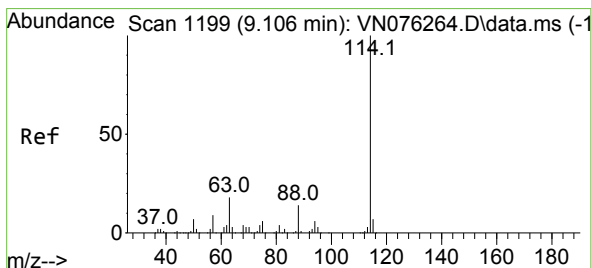
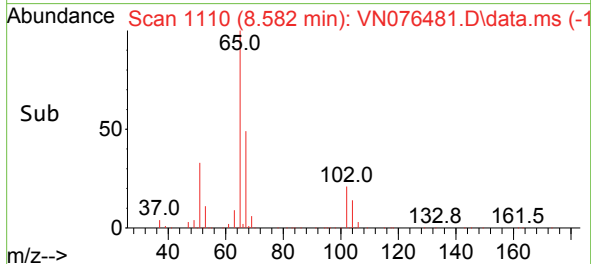
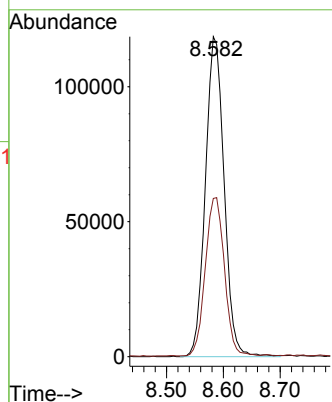
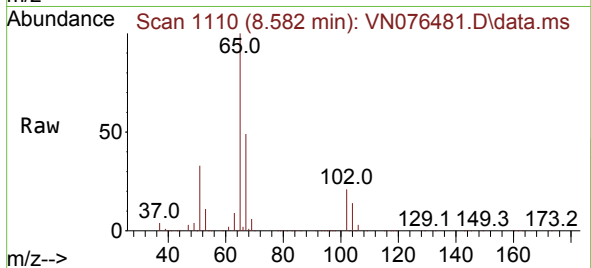
IBLK

Tgt Ion: 65 Resp: 270916

Ion Ratio Lower Upper

65 100

67 50.5 0.0 104.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 1199

Delta R.T. -0.000 min

Lab File: VN076481.D

Acq: 31 Jan 2023 12:35

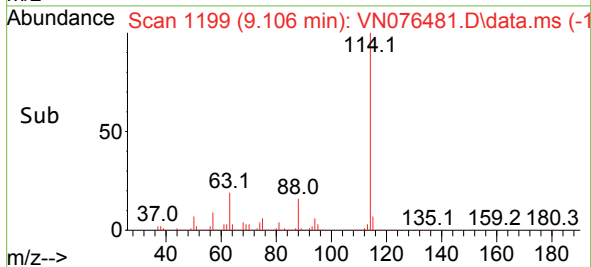
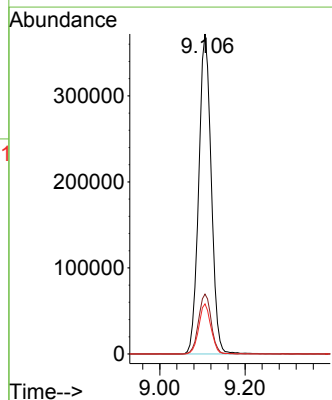
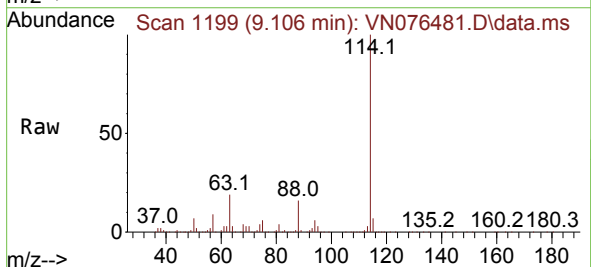
Tgt Ion: 114 Resp: 756301

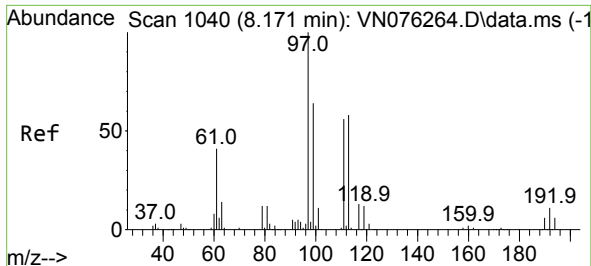
Ion Ratio Lower Upper

114 100

63 18.7 0.0 35.8

88 15.6 0.0 28.0

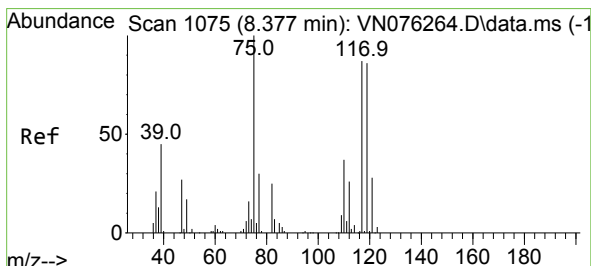
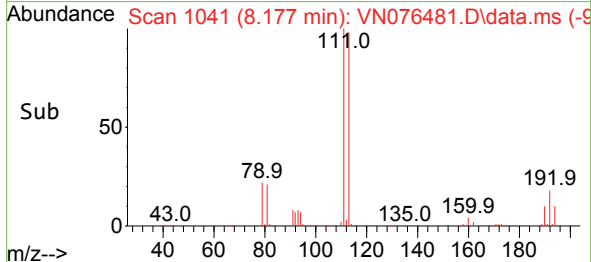
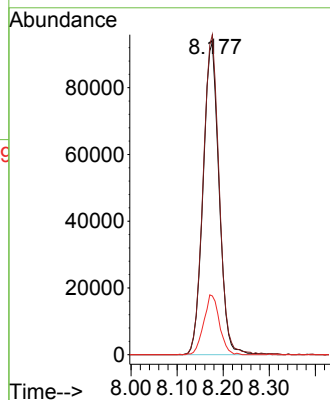
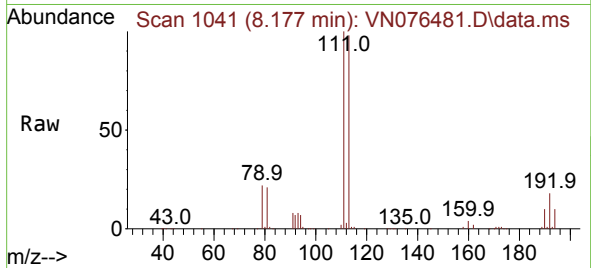




#35
Dibromofluoromethane
Concen: 47.895 ug/l
RT: 8.177 min Scan# 1040
Delta R.T. 0.006 min
Lab File: VN076481.D
Acq: 31 Jan 2023 12:35

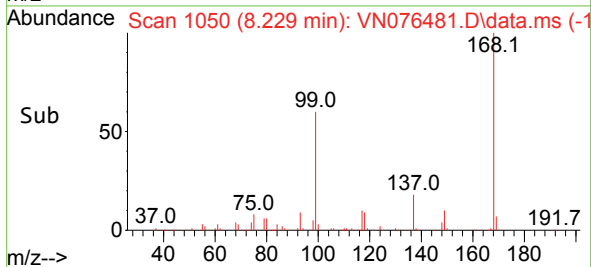
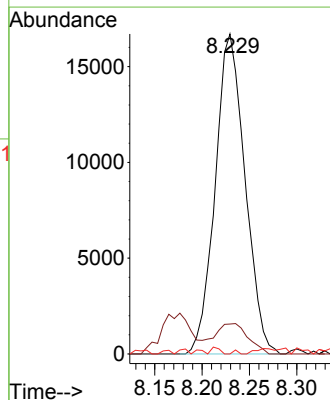
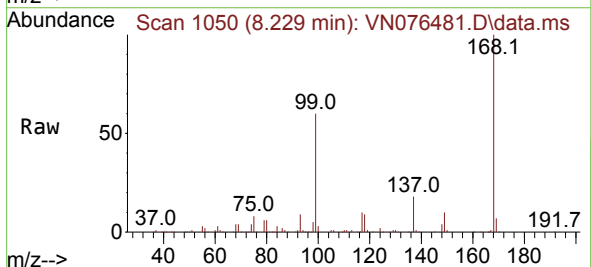
Instrument :
MSVOA_N
ClientSampleId :
IBLK

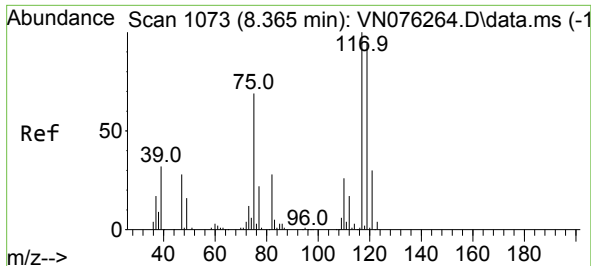
Tgt Ion:113 Resp: 226588
Ion Ratio Lower Upper
113 100
111 102.8 82.7 124.1
192 18.8 15.6 23.4



#36
1,1-Dichloropropene
Concen: 5.448 ug/l
RT: 8.229 min Scan# 1050
Delta R.T. -0.148 min
Lab File: VN076481.D
Acq: 31 Jan 2023 12:35

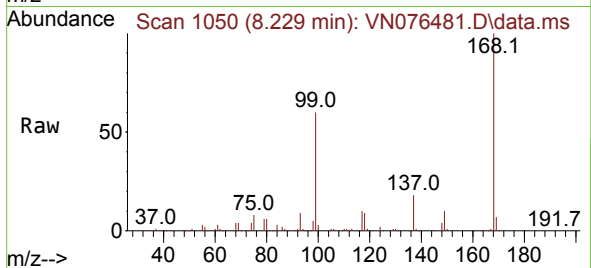
Tgt Ion: 75 Resp: 36623
Ion Ratio Lower Upper
75 100
110 10.7 18.8 56.3#
77 0.2 25.0 37.4#



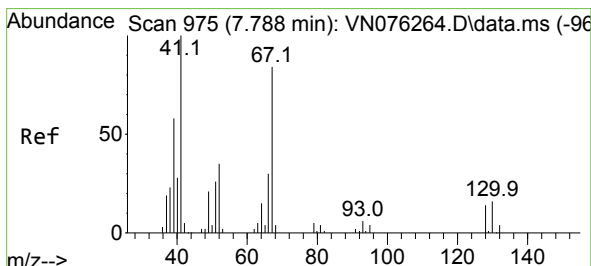
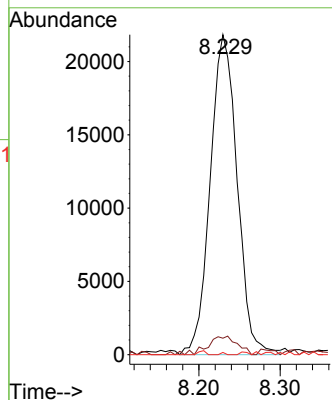
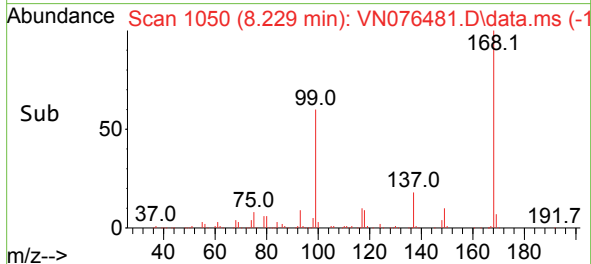


#38
Carbon Tetrachloride
Concen: 6.735 ug/l
RT: 8.229 min Scan# 1050
Delta R.T. -0.136 min
Lab File: VN076481.D
Acq: 31 Jan 2023 12:35

Instrument :
MSVOA_N
ClientSampleId :
IBLK

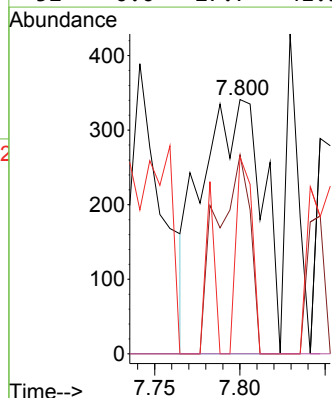
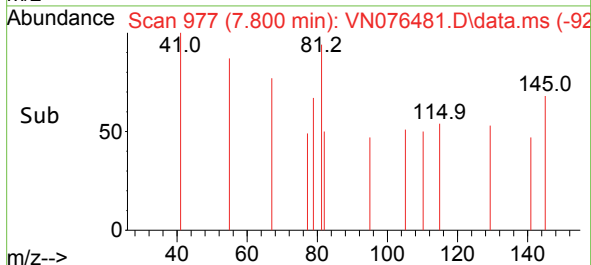
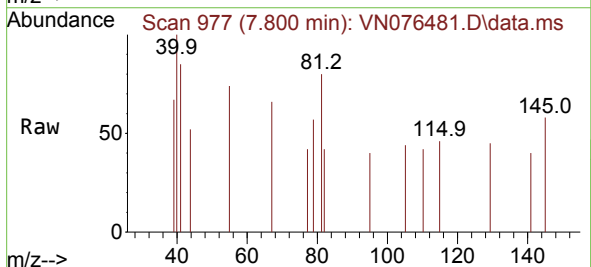


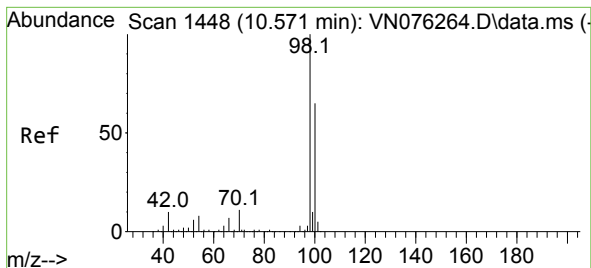
Tgt Ion:117 Resp: 50489
Ion Ratio Lower Upper
117 100
119 5.1 75.4 113.0#
121 0.7 24.2 36.2#



#41
Methacrylonitrile
Concen: 0.302 ug/l
RT: 7.800 min Scan# 977
Delta R.T. 0.012 min
Lab File: VN076481.D
Acq: 31 Jan 2023 12:35

Tgt Ion: 41 Resp: 854
Ion Ratio Lower Upper
41 100
39 42.2 42.4 63.6#
67 20.3 68.8 103.2#
52 0.0 27.7 41.5#





#50

Toluene-d8

Concen: 50.570 ug/l

RT: 10.570 min Scan# 1448

Delta R.T. -0.001 min

Lab File: VN076481.D

Acq: 31 Jan 2023 12:35

Instrument :

MSVOA_N

ClientSampleId :

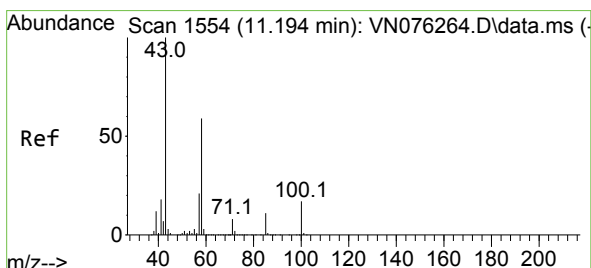
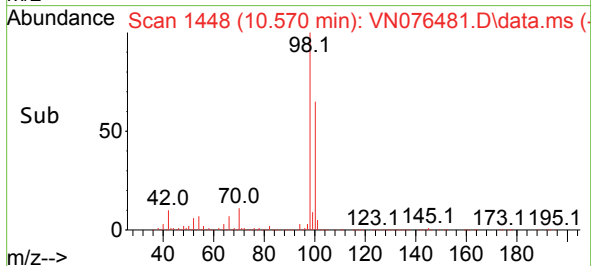
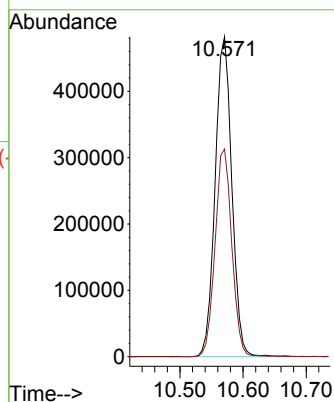
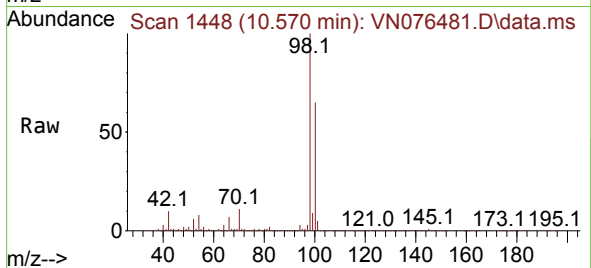
IBLK

Tgt Ion: 98 Resp: 883554

Ion Ratio Lower Upper

98 100

100 65.2 52.2 78.4



#59

2-Hexanone

Concen: 0.274 ug/l

RT: 11.188 min Scan# 1553

Delta R.T. -0.006 min

Lab File: VN076481.D

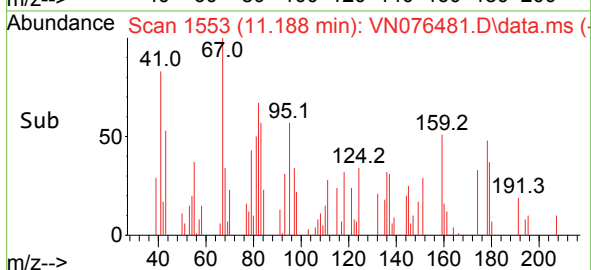
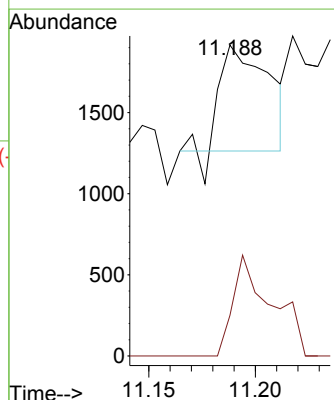
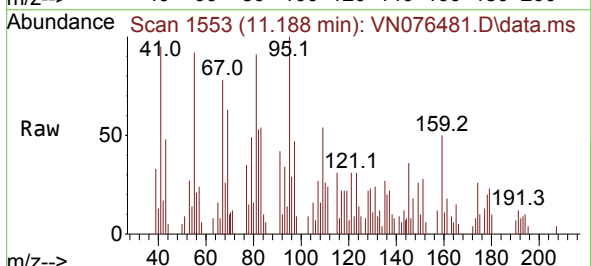
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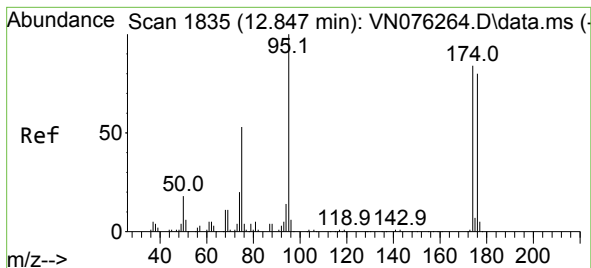
Tgt Ion: 43 Resp: 1021

Ion Ratio Lower Upper

43 100

58 76.3 30.1 90.3

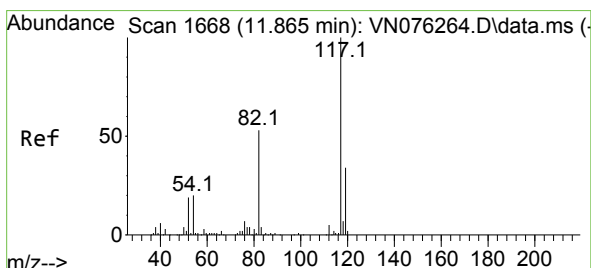
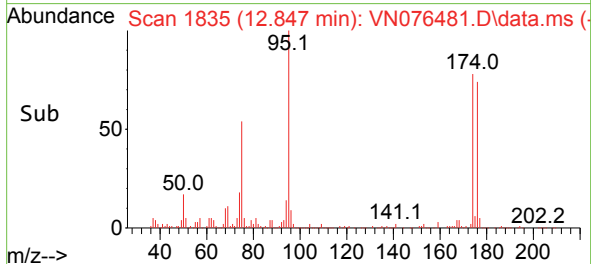
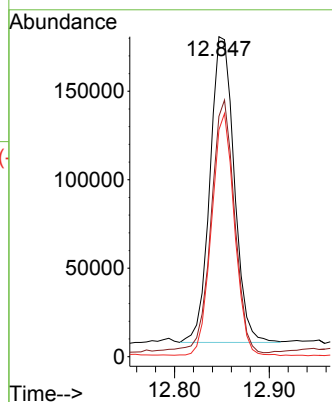
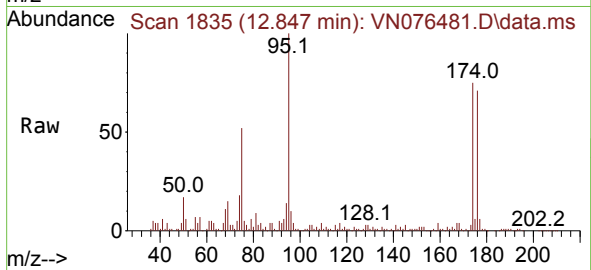




#62
4-Bromofluorobenzene
Concen: 53.750 ug/l
RT: 12.847 min Scan# 1835
Delta R.T. -0.000 min
Lab File: VN076481.D
Acq: 31 Jan 2023 12:35

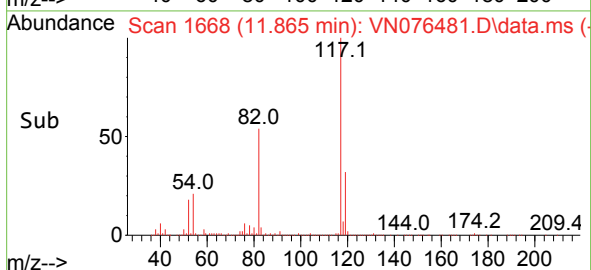
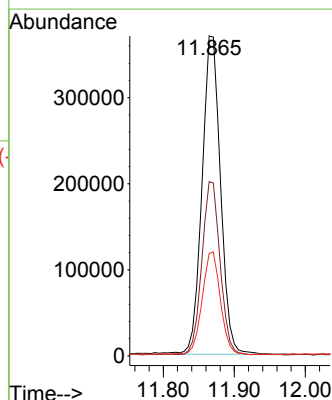
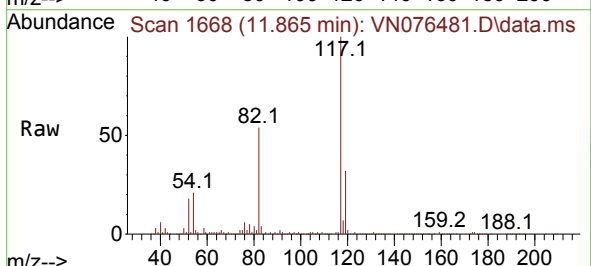
Instrument :
MSVOA_N
ClientSampleId :
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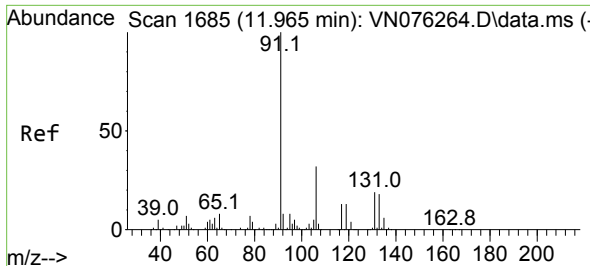
Tgt Ion: 95 Resp: 306582
Ion Ratio Lower Upper
95 100
174 84.1 0.0 174.6
176 75.1 0.0 167.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1668
Delta R.T. -0.000 min
Lab File: VN076481.D
Acq: 31 Jan 2023 12:35

Tgt Ion: 117 Resp: 667973
Ion Ratio Lower Upper
117 100
82 54.3 42.2 63.2
119 31.7 26.9 40.3

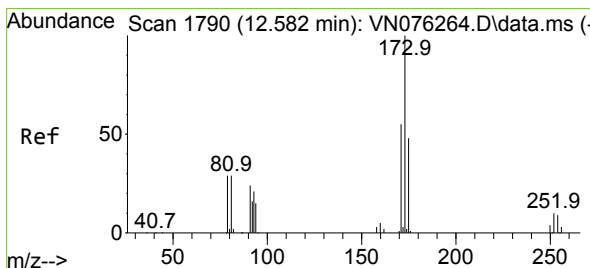
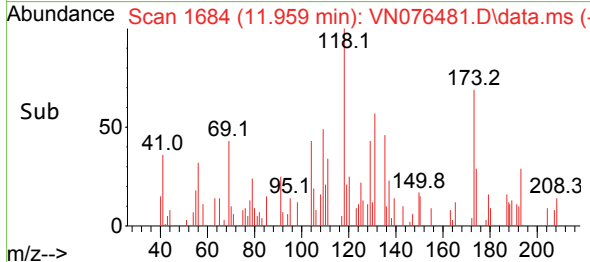
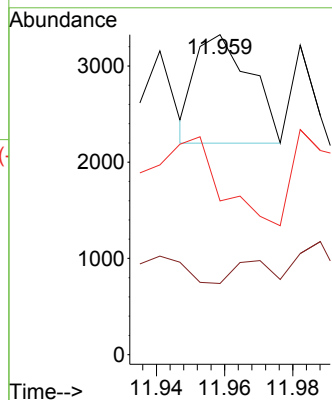
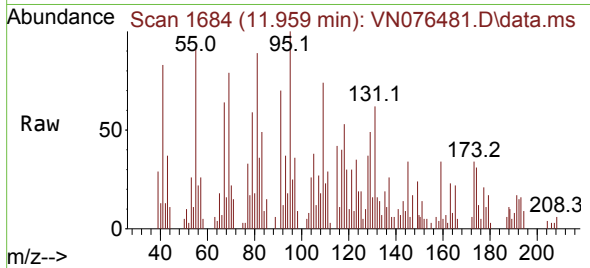




#66
1,1,1,2-Tetrachloroethane
Concen: 0.240 ug/l
RT: 11.959 min Scan# 11
Delta R.T. -0.006 min
Lab File: VN076481.D
Acq: 31 Jan 2023 12:35

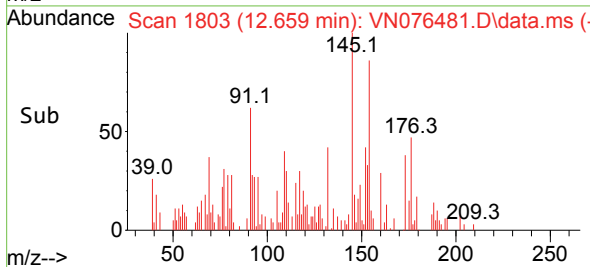
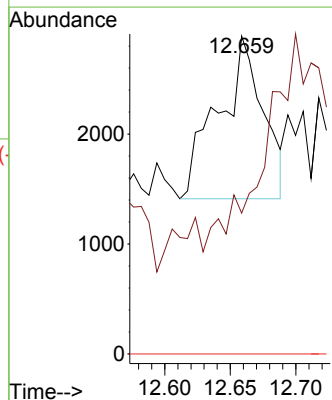
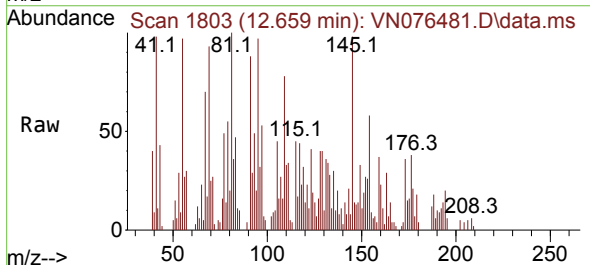
Instrument :
MSVOA_N
ClientSampleId :
IBLK

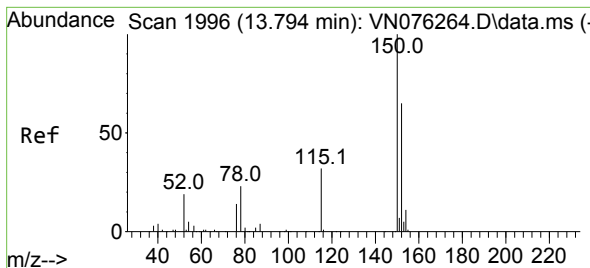
Tgt Ion:131 Resp: 1262
Ion Ratio Lower Upper
131 100
133 0.0 47.4 142.2#
119 0.0 32.3 96.8#



#71
Bromoform
Concen: 0.926 ug/l
RT: 12.659 min Scan# 1803
Delta R.T. 0.077 min
Lab File: VN076481.D
Acq: 31 Jan 2023 12:35

Tgt Ion:173 Resp: 3514
Ion Ratio Lower Upper
173 100
175 0.0 24.1 72.4#
254 0.0 0.0 0.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.794 min Scan# 1996

Delta R.T. -0.000 min

Lab File: VN076481.D

Acq: 31 Jan 2023 12:35

Instrument :

MSVOA_N

ClientSampleId :

IBLK

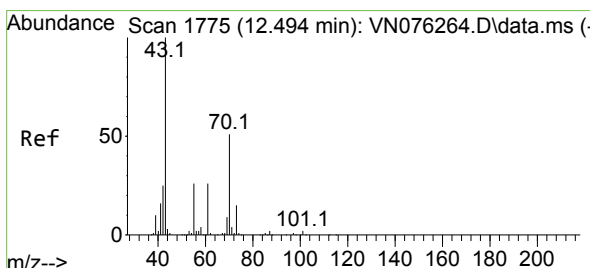
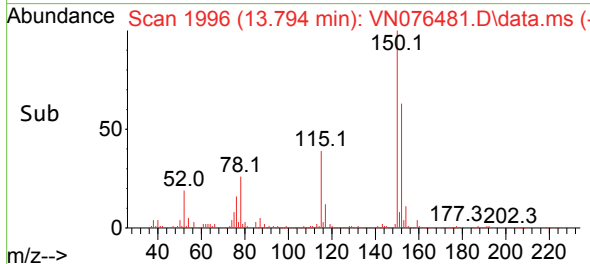
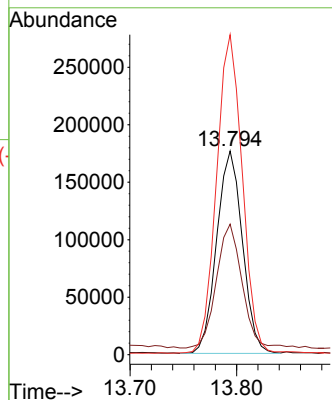
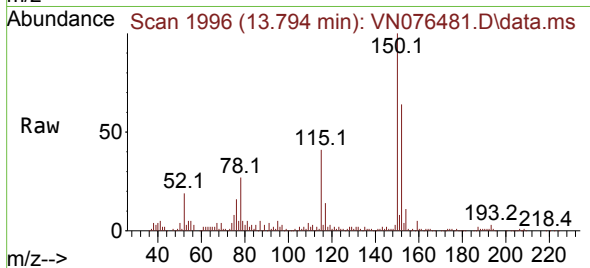
Tgt Ion:152 Resp: 295031

Ion Ratio Lower Upper

152 100

115 63.0 29.6 88.9

150 158.0 0.0 351.4



#74

N-ethyl acetate

Concen: 0.201 ug/l

RT: 12.494 min Scan# 1775

Delta R.T. -0.000 min

Lab File: VN076481.D

Acq: 31 Jan 2023 12:35

Tgt Ion: 43 Resp: 1321

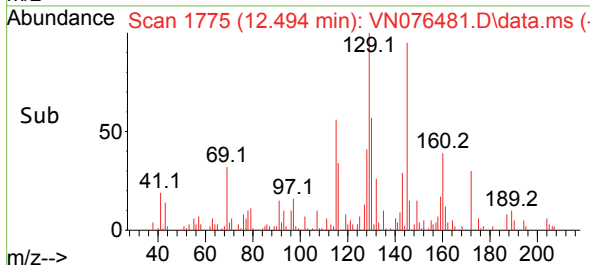
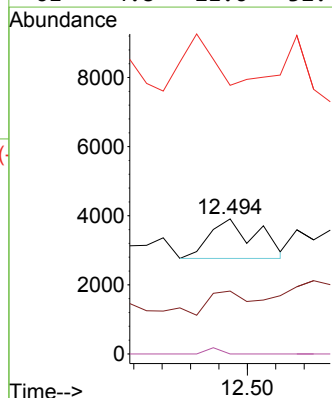
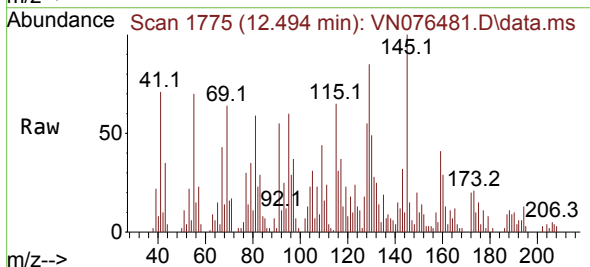
Ion Ratio Lower Upper

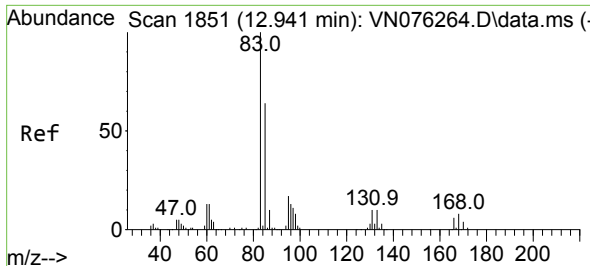
43 100

70 52.4 41.2 61.8

55 154.4 21.0 31.6#

61 4.8 21.6 32.4#

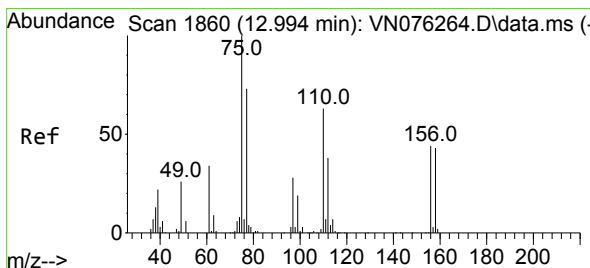
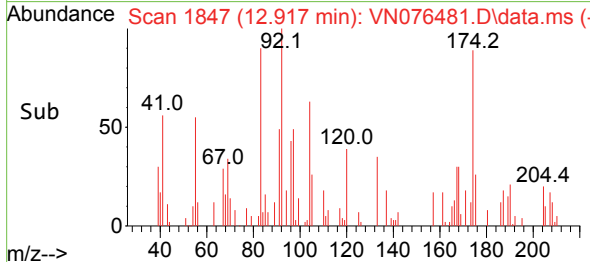
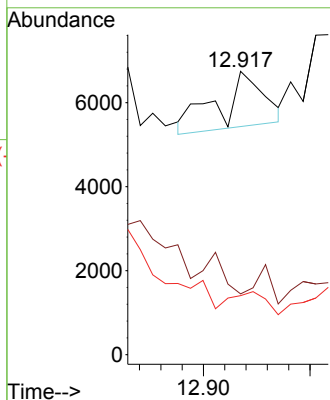
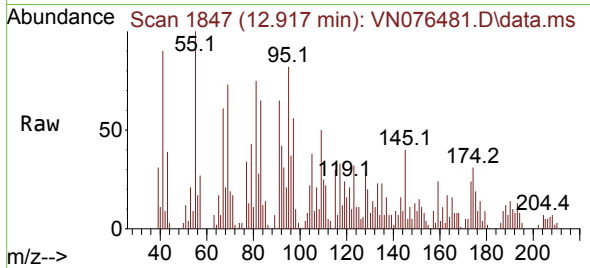




#75
1,1,2,2-Tetrachloroethane
Concen: 0.294 ug/l
RT: 12.917 min Scan# 1847
Delta R.T. -0.024 min
Lab File: VN076481.D
Acq: 31 Jan 2023 12:35

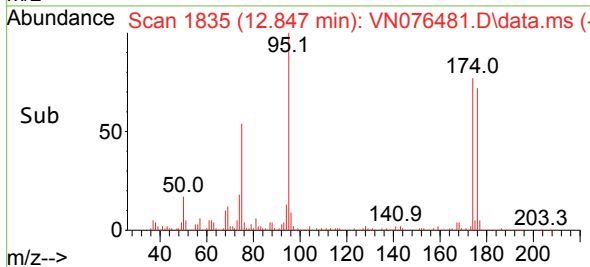
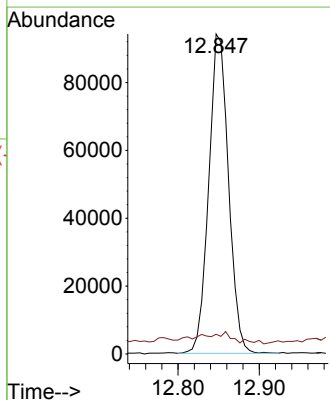
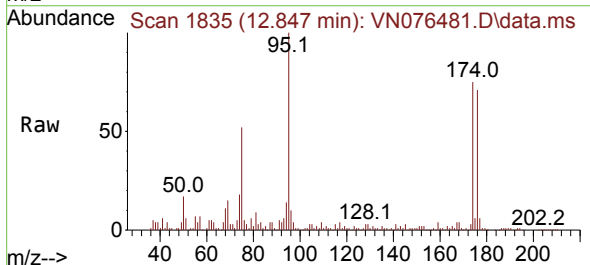
Instrument :
MSVOA_N
ClientSampleId :
IBLK

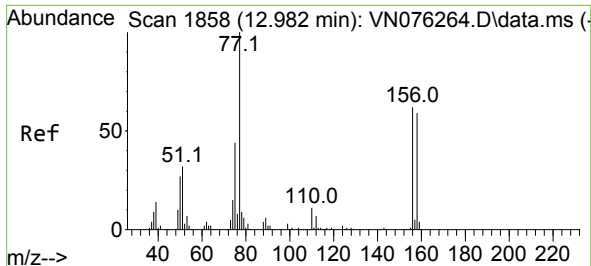
Tgt Ion: 83 Resp: 1932
Ion Ratio Lower Upper
83 100
131 24.1 5.5 16.4#
85 25.1 31.7 95.1#



#76
1,2,3-Trichloropropane
Concen: 29.184 ug/l
RT: 12.847 min Scan# 1835
Delta R.T. -0.147 min
Lab File: VN076481.D
Acq: 31 Jan 2023 12:35

Tgt Ion: 75 Resp: 158975
Ion Ratio Lower Upper
75 100
77 2.3 75.2 225.6#

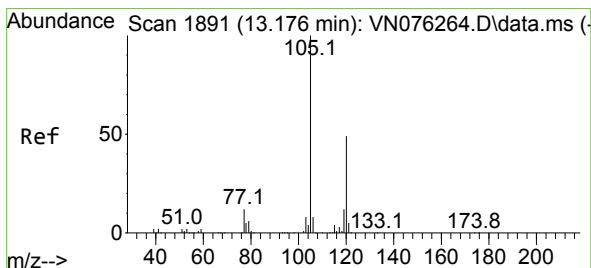
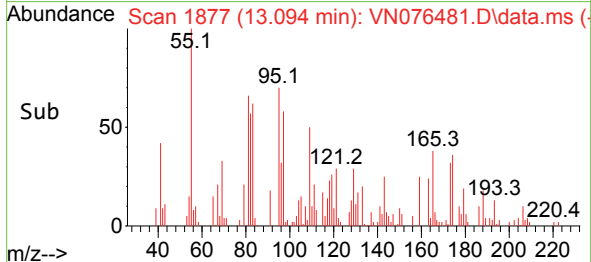
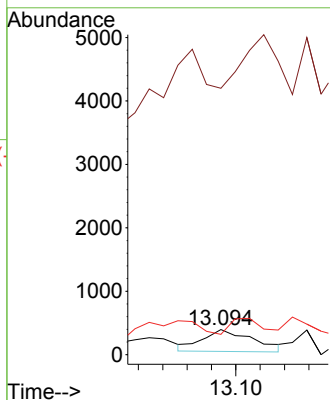
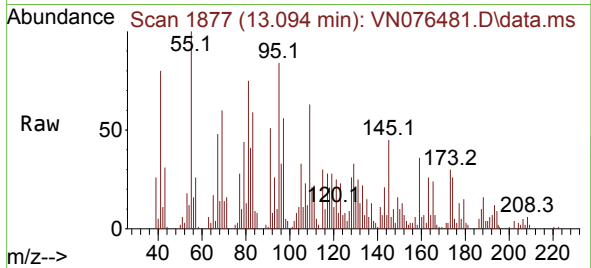




#77
Bromobenzene
Concen: Below Cal
RT: 13.094 min Scan# 1877
Delta R.T. 0.112 min
Lab File: VN076481.D
Acq: 31 Jan 2023 12:35

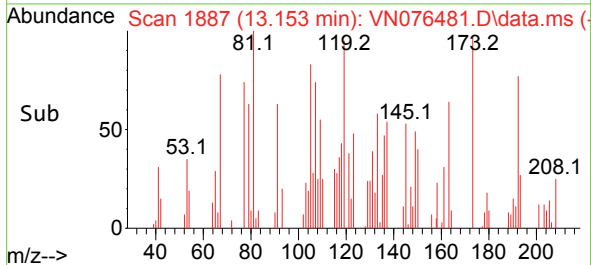
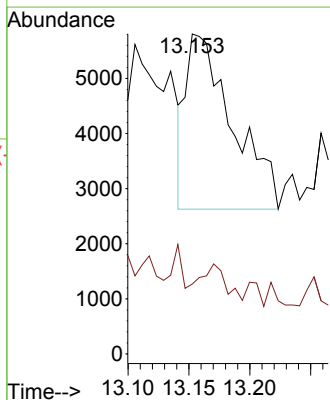
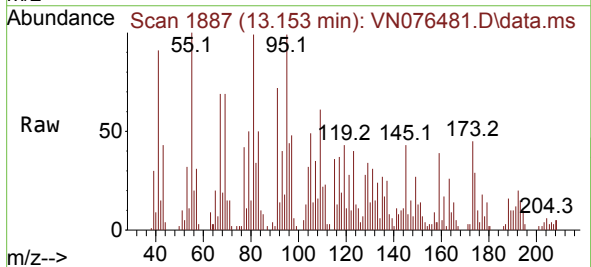
Instrument :
MSVOA_N
ClientSampleId :
IBLK

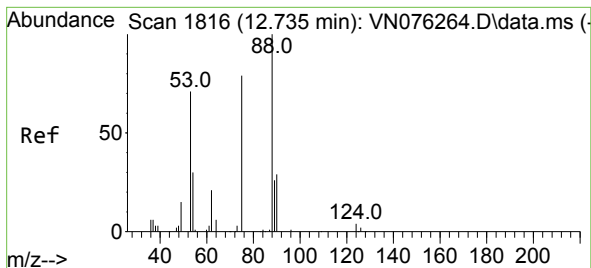
Tgt Ion:156 Resp: 492
Ion Ratio Lower Upper
156 100
77 187.8 93.4 280.2
158 50.6 48.4 145.2



#80
1,3,5-Trimethylbenzene
Concen: 0.443 ug/l
RT: 13.153 min Scan# 1887
Delta R.T. -0.023 min
Lab File: VN076481.D
Acq: 31 Jan 2023 12:35

Tgt Ion:105 Resp: 8466
Ion Ratio Lower Upper
105 100
120 3.9 25.0 75.0#

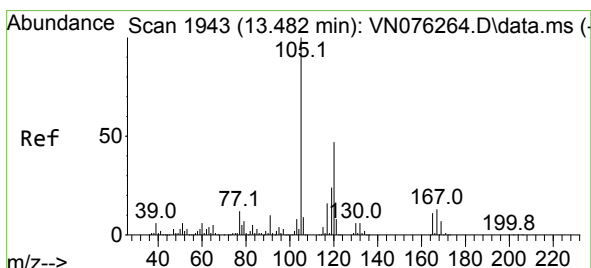
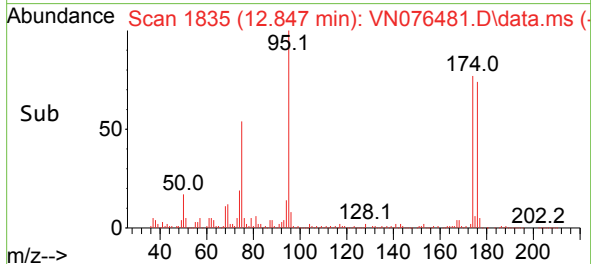
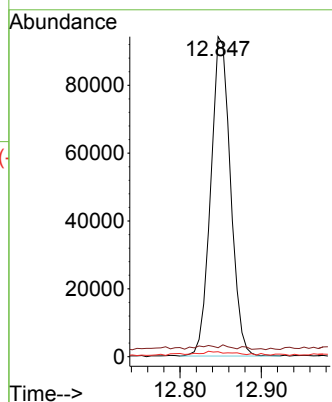
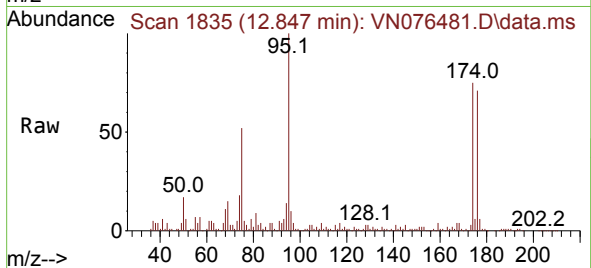




#81
trans-1,4-Dichloro-2-butene
Concen: 89.654 ug/l
RT: 12.847 min Scan# 1835
Delta R.T. 0.112 min
Lab File: VN076481.D
Acq: 31 Jan 2023 12:35

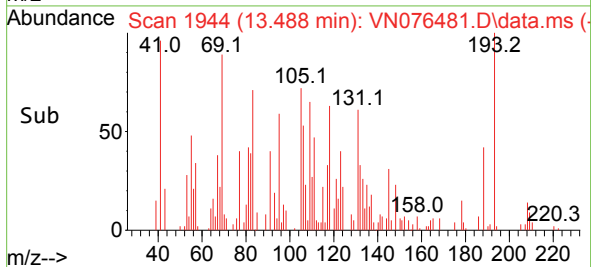
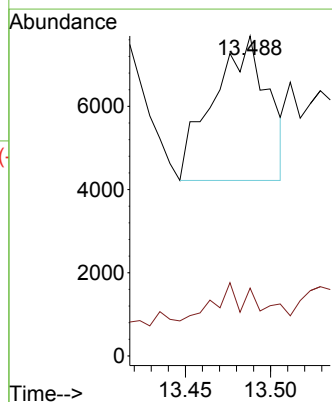
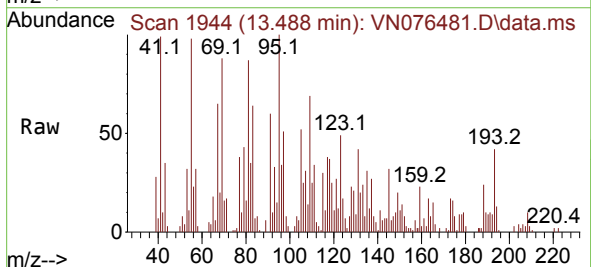
Instrument :
MSVOA_N
ClientSampleId :
IBLK

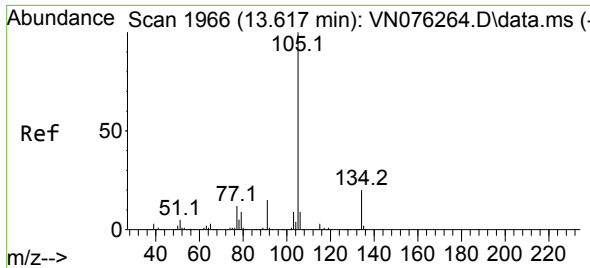
Tgt Ion: 75 Resp: 158975
Ion Ratio Lower Upper
75 100
53 1.2 75.8 113.8#
89 1.4 37.0 55.6#



#84
1,2,4-Trimethylbenzene
Concen: 0.400 ug/l
RT: 13.488 min Scan# 1944
Delta R.T. 0.006 min
Lab File: VN076481.D
Acq: 31 Jan 2023 12:35

Tgt Ion:105 Resp: 7673
Ion Ratio Lower Upper
105 100
120 16.8 22.9 68.5#

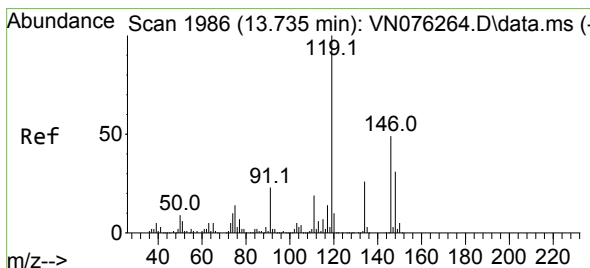
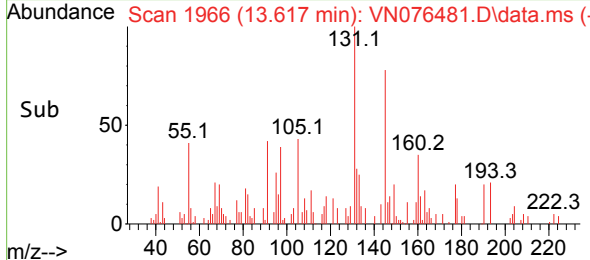
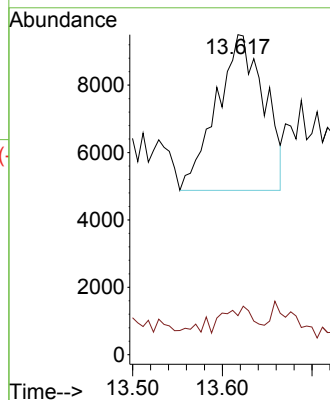
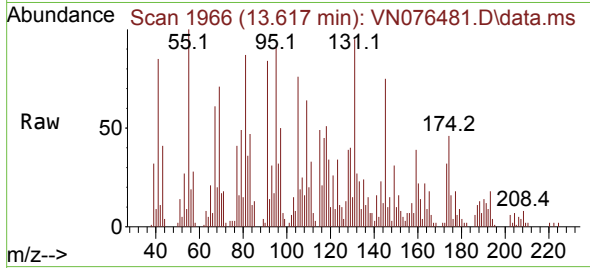




#85
 sec-Butylbenzene
 Concen: 0.719 ug/l
 RT: 13.617 min Scan# 1966
 Delta R.T. 0.000 min
 Lab File: VN076481.D
 Acq: 31 Jan 2023 12:35

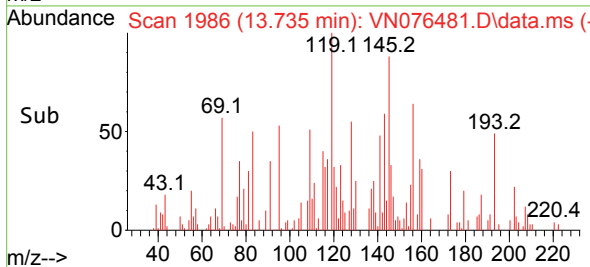
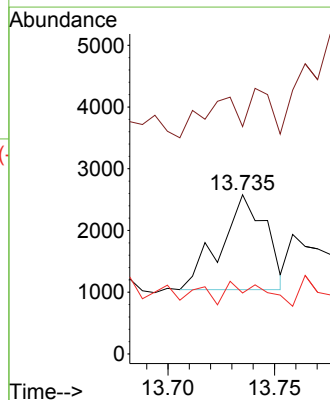
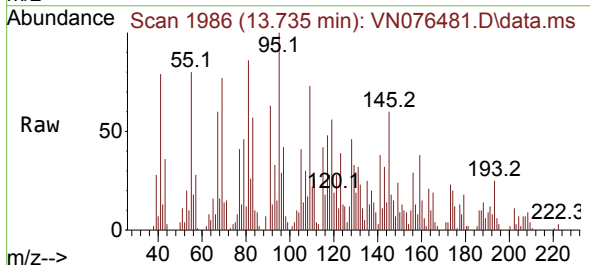
Instrument :
 MSVOA_N
 ClientSampleId :
 IBLK

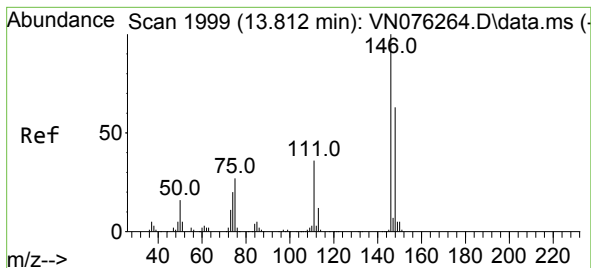
Tgt Ion:105 Resp: 16977
 Ion Ratio Lower Upper
 105 100
 134 10.9 10.3 30.8



#87
 1,3-Dichlorobenzene
 Concen: 0.210 ug/l
 RT: 13.735 min Scan# 1986
 Delta R.T. 0.000 min
 Lab File: VN076481.D
 Acq: 31 Jan 2023 12:35

Tgt Ion:146 Resp: 2263
 Ion Ratio Lower Upper
 146 100
 111 38.1 19.9 59.7
 148 21.4 31.6 94.8#





#88

1,4-Dichlorobenzene

Concen: 0.376 ug/l

RT: 13.800 min Scan# 1999

Delta R.T. -0.012 min

Lab File: VN076481.D

Acq: 31 Jan 2023 12:35

Instrument :

MSVOA_N

ClientSampleId :

IBLK

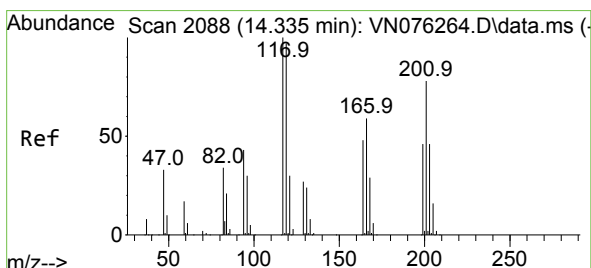
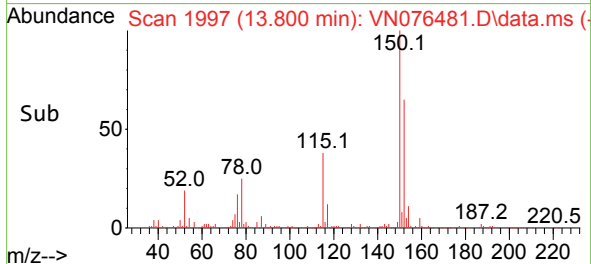
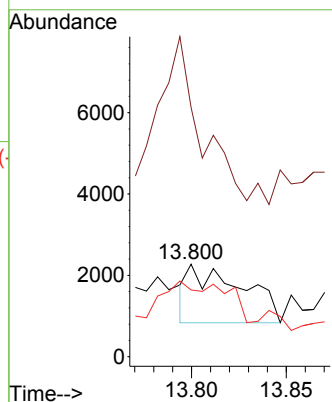
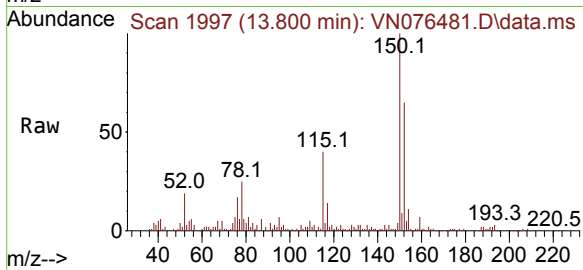
Tgt Ion:146 Resp: 2814

Ion Ratio Lower Upper

146 100

111 284.3 19.1 57.5#

148 65.8 31.9 95.9



#90

Hexachloroethane

Concen: 0.281 ug/l

RT: 14.406 min Scan# 2100

Delta R.T. 0.071 min

Lab File: VN076481.D

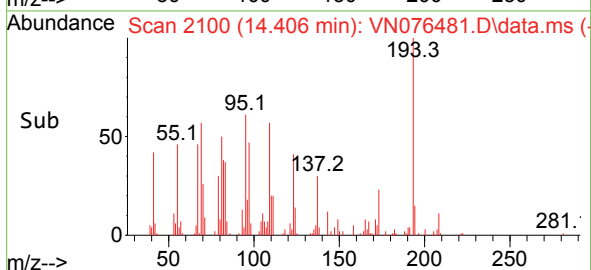
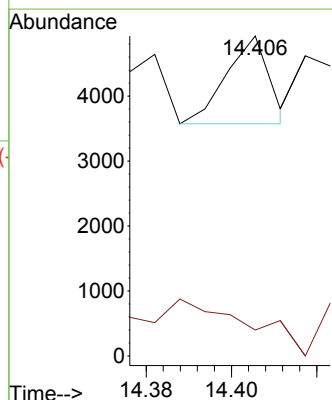
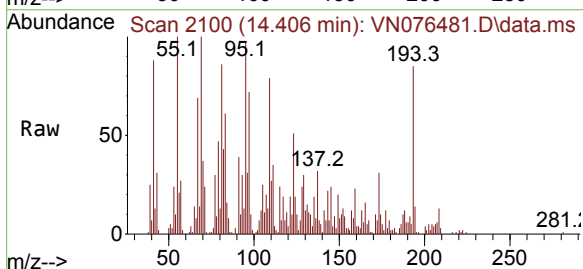
Acq: 31 Jan 2023 12:35

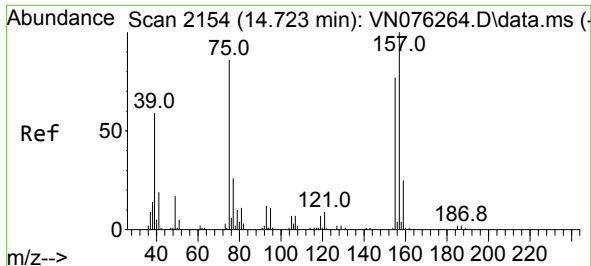
Tgt Ion:117 Resp: 942

Ion Ratio Lower Upper

117 100

201 83.0 37.3 111.9

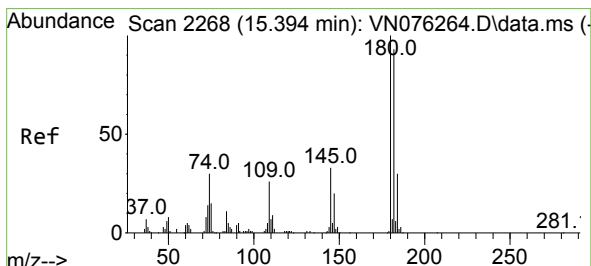
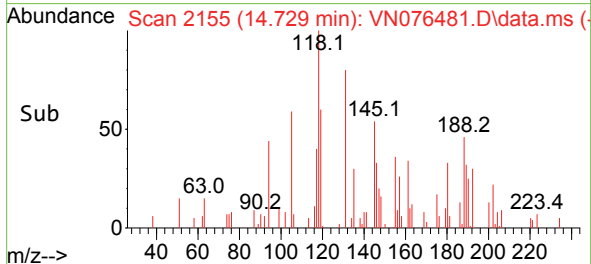
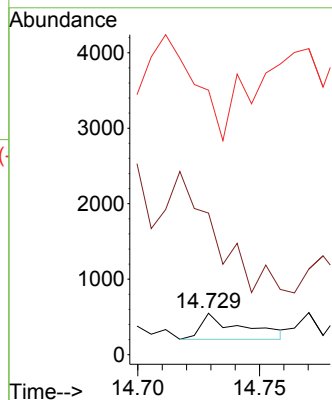
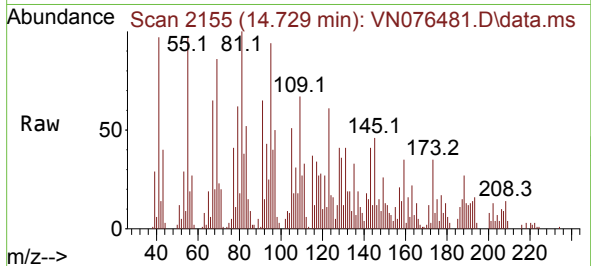




#92
 1,2-Dibromo-3-Chloropropane
 Concen: 0.358 ug/l
 RT: 14.729 min Scan# 2155
 Delta R.T. 0.006 min
 Lab File: VN076481.D
 Acq: 31 Jan 2023 12:35

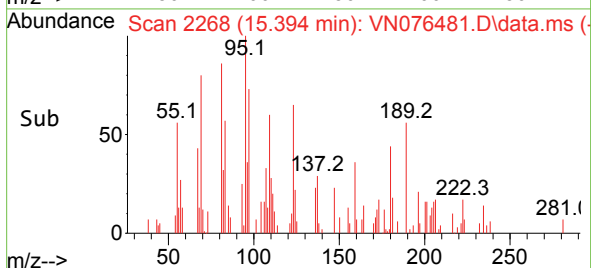
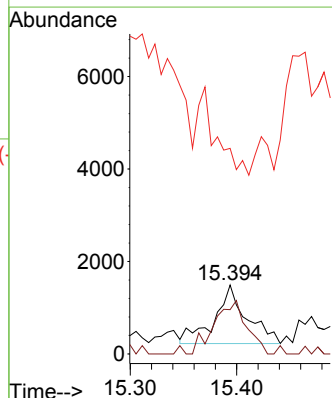
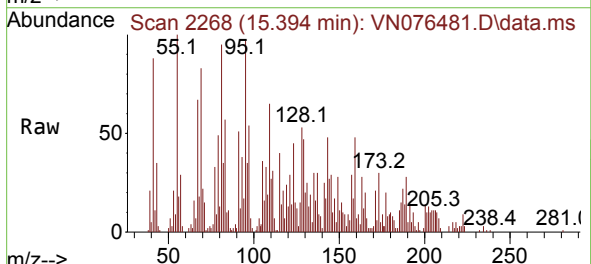
Instrument :
 MSVOA_N
 ClientSampleId :
 IBLK

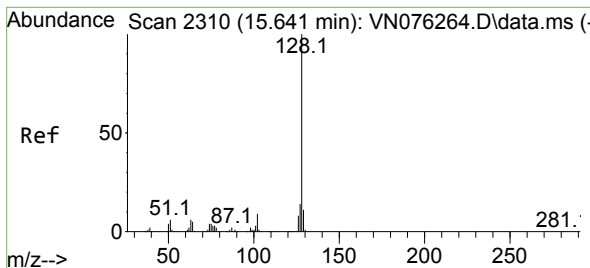
Tgt Ion: 75 Resp: 408
 Ion Ratio Lower Upper
 75 100
 155 0.0 45.0 135.0#
 157 486.8 58.3 174.9#



#93
 1,2,4-Trichlorobenzene
 Concen: 1.806 ug/l
 RT: 15.394 min Scan# 2268
 Delta R.T. -0.000 min
 Lab File: VN076481.D
 Acq: 31 Jan 2023 12:35

Tgt Ion: 180 Resp: 2664
 Ion Ratio Lower Upper
 180 100
 182 93.8 47.0 141.2
 145 0.0 15.2 45.5#





#95

Naphthalene

Concen: 3.654 ug/l

RT: 15.635 min Scan# 2309

Delta R.T. -0.006 min

Lab File: VN076481.D

Acq: 31 Jan 2023 12:35

Instrument :

MSVOA_N

ClientSampleId :

IBLK

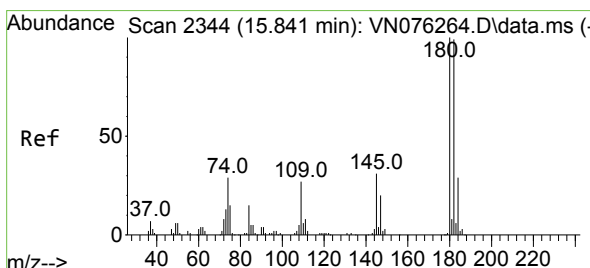
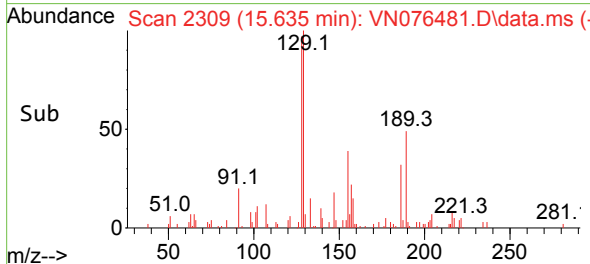
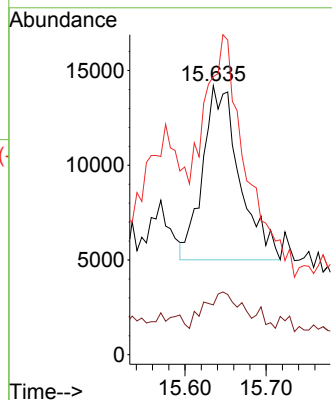
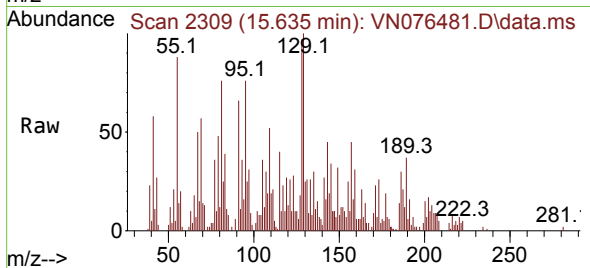
Tgt Ion:128 Resp: 28894

Ion Ratio Lower Upper

128 100

127 20.0 10.3 15.5#

129 149.3 8.6 13.0#



#96

1,2,3-Trichlorobenzene

Concen: 1.573 ug/l

RT: 15.847 min Scan# 2345

Delta R.T. 0.006 min

Lab File: VN076481.D

Acq: 31 Jan 2023 12:35

Tgt Ion:180 Resp: 2115

Ion Ratio Lower Upper

180 100

182 104.1 47.5 142.5

145 242.4 15.9 47.6#

