

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN072123\
 Data File : VN078614.D
 Acq On : 21 Jul 2023 15:23
 Operator : JC\MD
 Sample : IBLK
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 IBLK

Quant Time: Jul 21 23:25:02 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N071023W.M
 Quant Title : SW846 8260
 QLast Update : Mon Jul 10 16:13:53 2023
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.236	168	413412	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.112	114	733748	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.871	117	667176	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.800	152	204665	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.588	65	275552	49.719	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	99.440%
35) Dibromofluoromethane	8.177	113	267749	53.755	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	107.520%
50) Toluene-d8	10.571	98	863385	45.885	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	91.760%
62) 4-Bromofluorobenzene	12.853	95	279274	48.185	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	=	96.380%

Target Compounds			Qvalue			
3) Chloromethane	2.377	50	1804	0.327	ug/l #	66
5) Bromomethane	2.971	94	5100	Below Cal		87
6) Chloroethane	3.124	64	1378	Below Cal	#	74
10) Methyl Iodide	4.606	142	2357	0.380	ug/l	90
11) Tert butyl alcohol	5.518	59	2592	3.033	ug/l #	72
13) Acrolein	4.201	56	356	0.423	ug/l #	1
15) Acrylonitrile	5.724	53	957	0.443	ug/l #	26
16) Acetone	4.477	43	2785	1.613	ug/l #	40
17) Carbon Disulfide	4.724	76	8724	0.692	ug/l #	93
18) Methyl Acetate	5.059	43	5322	0.728	ug/l #	74
20) Methylene Chloride	5.300	84	1908	Below Cal	#	49
21) trans-1,2-Dichloroethene	5.800	96	2004	0.408	ug/l #	69
23) Vinyl Acetate	6.630	43	2380	0.280	ug/l #	62
25) 2-Butanone	7.506	43	750	0.276	ug/l	99
27) cis-1,2-Dichloroethene	7.483	96	1332	0.234	ug/l #	70
29) Tetrahydrofuran	7.859	42	863	0.484	ug/l #	70
31) Cyclohexane	8.230	56	9196	1.228	ug/l #	34
36) 1,1-Dichloropropene	8.377	75	2098	0.292	ug/l #	52
38) Carbon Tetrachloride	8.236	117	42896	5.488	ug/l #	20
39) Methylcyclohexane	9.612	83	2140	0.326	ug/l #	81
42) 1,2-Dichloroethane	8.677	62	1841	0.254	ug/l	99
43) Isopropyl Acetate	8.765	43	9984	1.011	ug/l #	49
44) Trichloroethene	9.359	130	2117	0.369	ug/l	55
46) Dibromomethane	9.712	93	833	0.219	ug/l #	63
49) 1,4-Dioxane	9.712	88	309	3.098	ug/l #	1
51) 4-Methyl-2-Pentanone	10.453	43	4659	0.794	ug/l #	85
52) Toluene	10.641	92	4329	0.328	ug/l	91
58) 2-Chloroethyl Vinyl ether	10.171	63	1528	0.590	ug/l #	49
59) 2-Hexanone	11.206	43	6922	1.659	ug/l	81
61) 1,2-Dibromoethane	11.477	107	1153	0.215	ug/l	98
64) Tetrachloroethene	11.112	164	1365	0.272	ug/l #	68
65) Chlorobenzene	11.894	112	4087	0.274	ug/l #	74
68) m/p-Xylenes	12.082	106	3855	0.414	ug/l	99
70) Styrene	12.412	104	3466	0.235	ug/l #	91
71) Bromoform	12.582	173	933	0.240	ug/l #	28
73) Isopropylbenzene	12.700	105	4057	0.211	ug/l	81

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

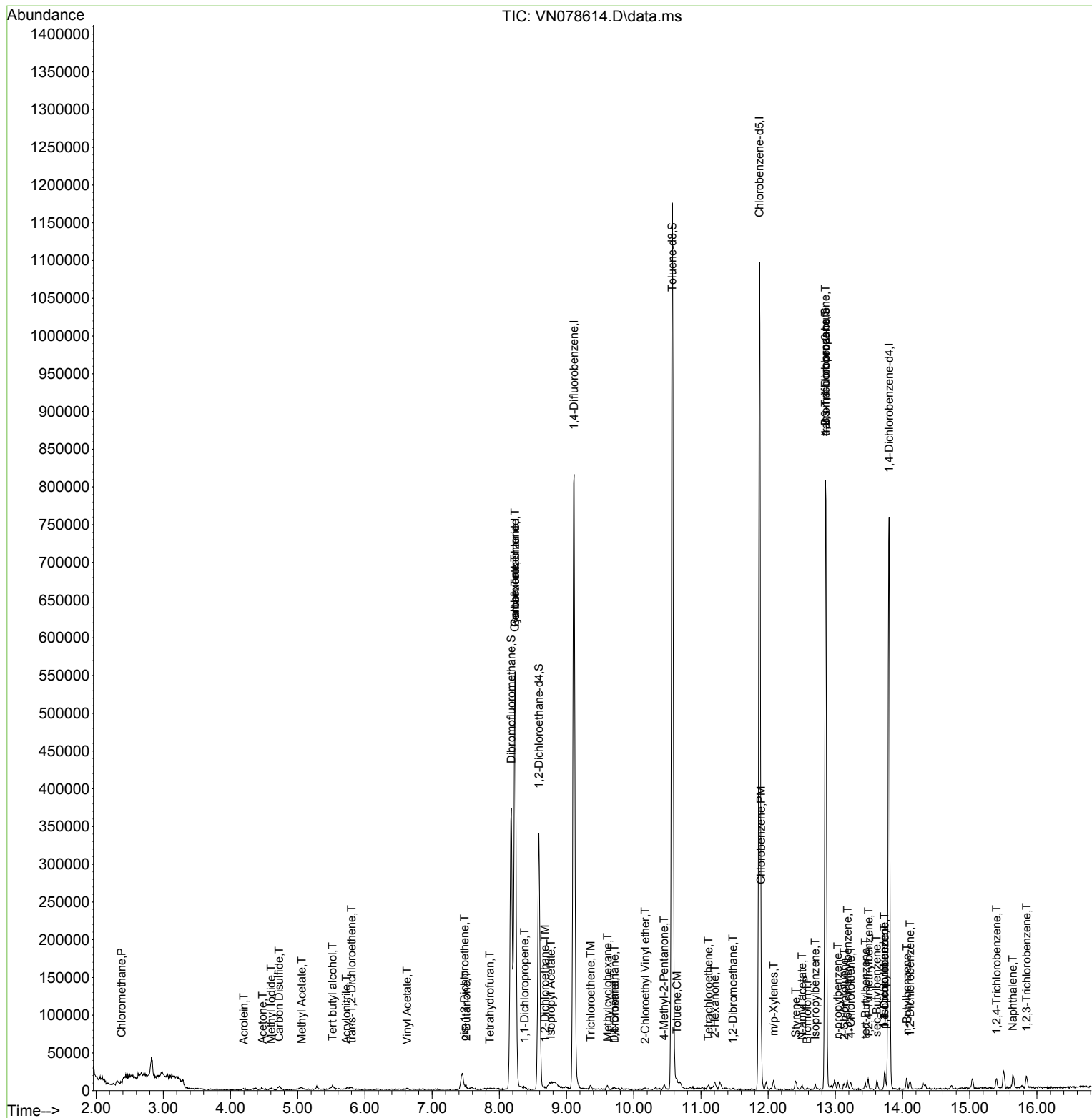
74) N-amyl acetate	12.506	43	2687	0.405 ug/l #	77
75) 1,1,2,2-Tetrachloroethane	12.947	83	2374	Below Cal	93
76) 1,2,3-Trichloropropane	12.853	75	146883	29.691 ug/l #	1
77) Bromobenzene	12.988	156	2565	Below Cal	80
78) n-propylbenzene	13.035	91	6539	0.318 ug/l	90
79) 2-Chlorotoluene	13.135	91	5173	0.384 ug/l	90
80) 1,3,5-Trimethylbenzene	13.182	105	4713	0.310 ug/l	94
81) trans-1,4-Dichloro-2-b...	12.853	75	146883	78.023 ug/l #	15
82) 4-Chlorotoluene	13.229	91	6008	0.478 ug/l	99
83) tert-Butylbenzene	13.447	119	3616	0.280 ug/l	92
84) 1,2,4-Trimethylbenzene	13.494	105	5923	0.401 ug/l	96
85) sec-Butylbenzene	13.618	105	7268	0.446 ug/l	82
86) p-Isopropyltoluene	13.729	119	6415	0.490 ug/l	94
87) 1,3-Dichlorobenzene	13.729	146	5614	0.760 ug/l	95
88) 1,4-Dichlorobenzene	13.729	146	5614	0.755 ug/l	95
89) n-Butylbenzene	14.065	91	8090	0.864 ug/l	89
90) Hexachloroethane	14.341	117	1272	Below Cal	88
91) 1,2-Dichlorobenzene	14.112	146	5247	0.714 ug/l	96
92) 1,2-Dibromo-3-Chloropr...	14.729	75	1033	Below Cal #	62
93) 1,2,4-Trichlorobenzene	15.400	180	4412	1.882 ug/l	90
94) Hexachlorobutadiene	15.506	225	3971	Below Cal	89
95) Naphthalene	15.641	128	16083	2.006 ug/l	97
96) 1,2,3-Trichlorobenzene	15.847	180	4994	1.852 ug/l	81

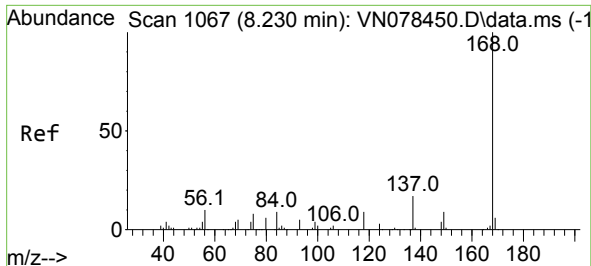
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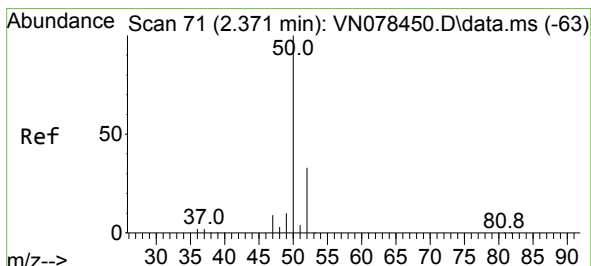
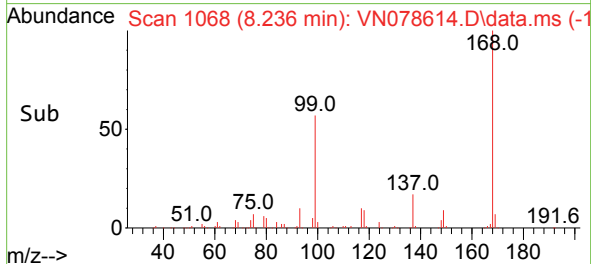
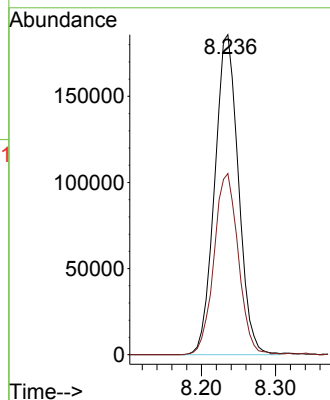
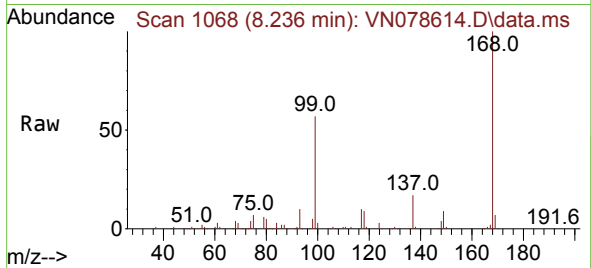




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.236 min Scan# 10
Delta R.T. 0.006 min
Lab File: VN078614.D
Acq: 21 Jul 2023 15:23

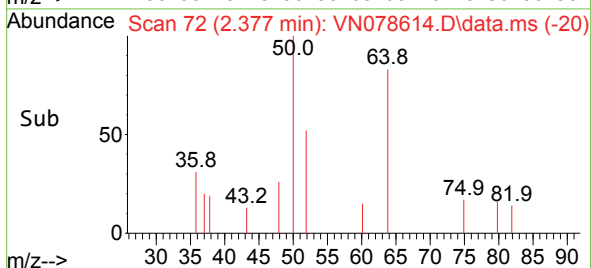
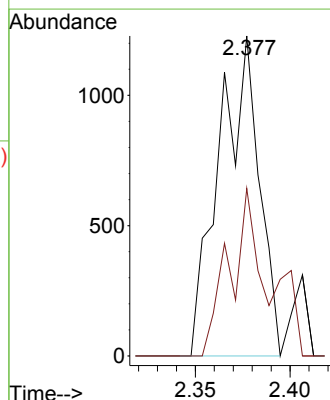
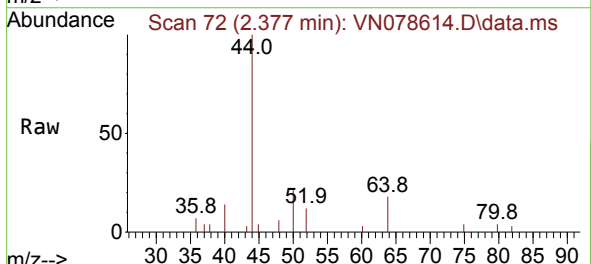
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MSVOA_N
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IBLK

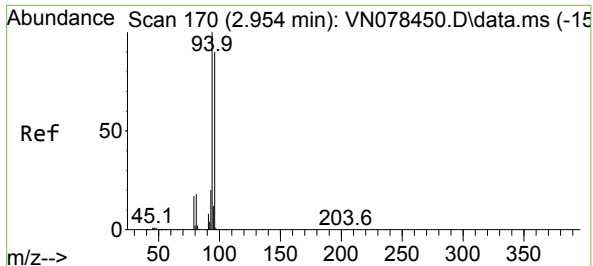
Tgt Ion:168 Resp: 413412
Ion Ratio Lower Upper
168 100
99 56.6 53.0 79.6



#3
Chloromethane
Concen: 0.327 ug/l
RT: 2.377 min Scan# 72
Delta R.T. 0.006 min
Lab File: VN078614.D
Acq: 21 Jul 2023 15:23

Tgt Ion: 50 Resp: 1804
Ion Ratio Lower Upper
50 100
52 52.4 26.5 39.7#

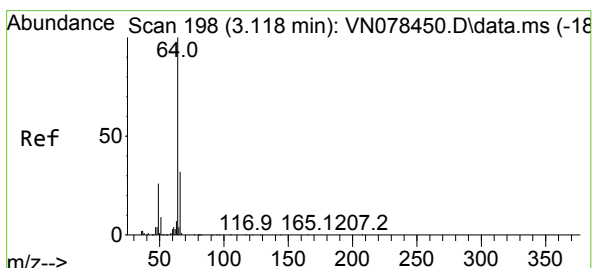
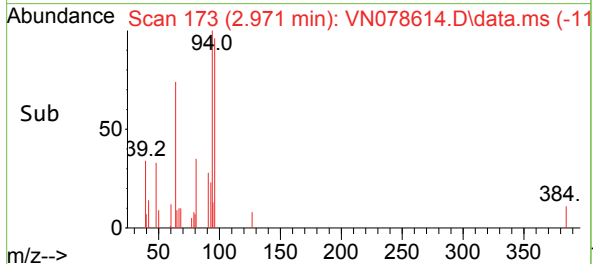
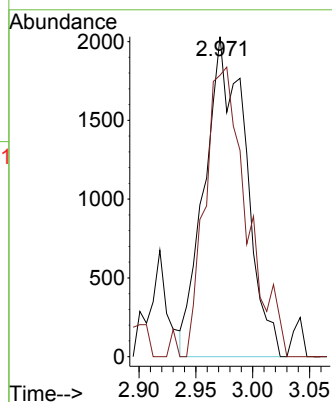
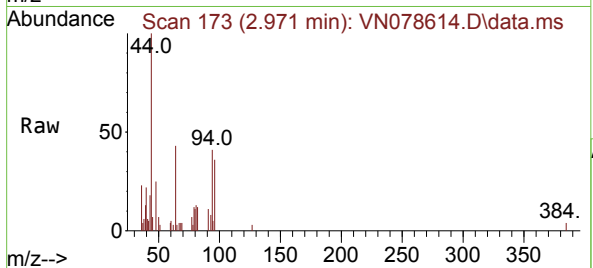




#5
Bromomethane
Concen: Below Cal
RT: 2.971 min Scan# 11
Delta R.T. 0.017 min
Lab File: VN078614.D
Acq: 21 Jul 2023 15:23

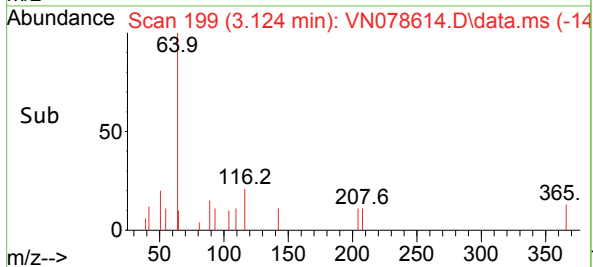
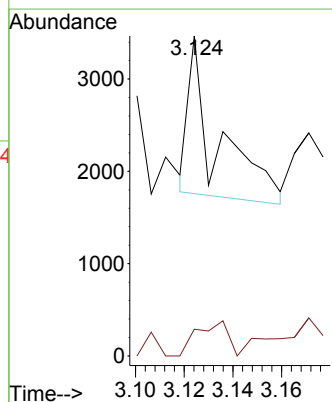
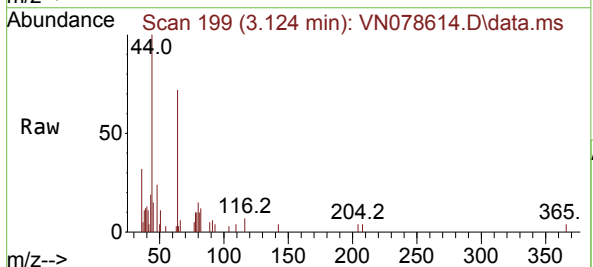
Instrument :
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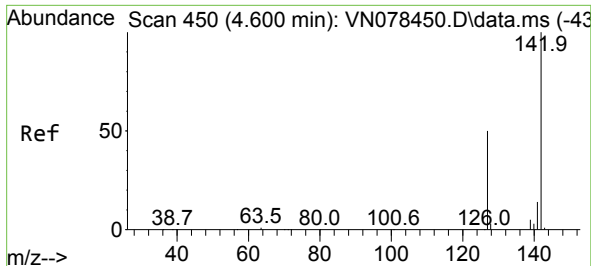
Tgt Ion: 94 Resp: 5100
Ion Ratio Lower Upper
94 100
96 78.6 73.1 109.7



#6
Chloroethane
Concen: Below Cal
RT: 3.124 min Scan# 199
Delta R.T. 0.006 min
Lab File: VN078614.D
Acq: 21 Jul 2023 15:23

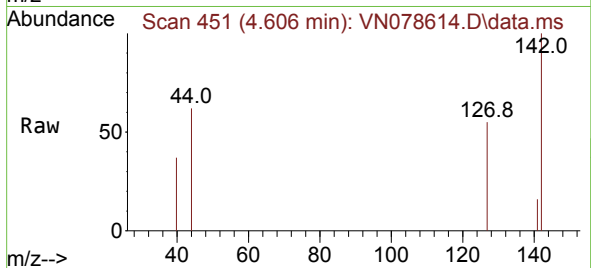
Tgt Ion: 64 Resp: 1378
Ion Ratio Lower Upper
64 100
66 17.1 25.4 38.2#



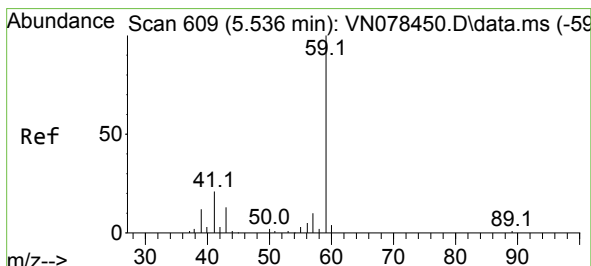
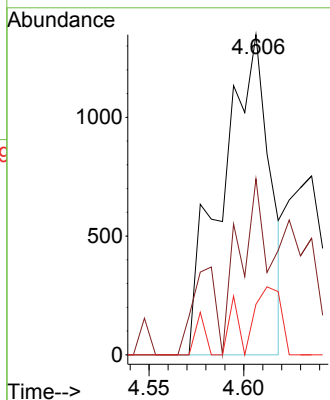
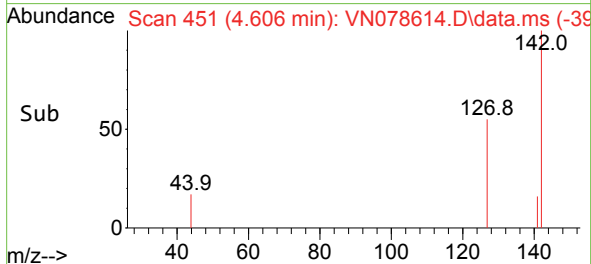


#10
Methyl Iodide
Concen: 0.380 ug/l
RT: 4.606 min Scan# 41
Delta R.T. 0.006 min
Lab File: VN078614.D
Acq: 21 Jul 2023 15:23

Instrument :
MSVOA_N
ClientSampleId :
IBLK

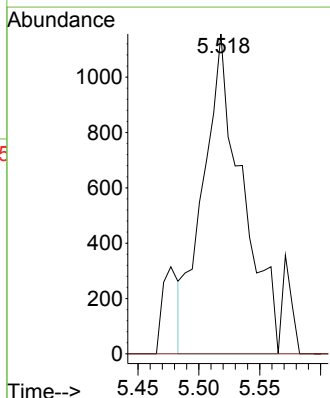
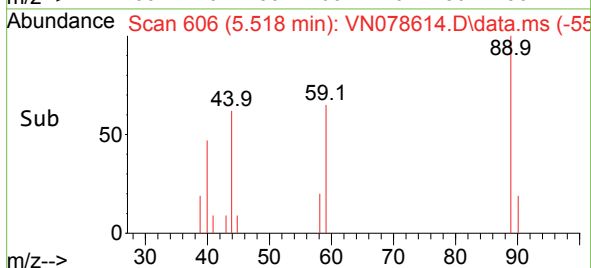
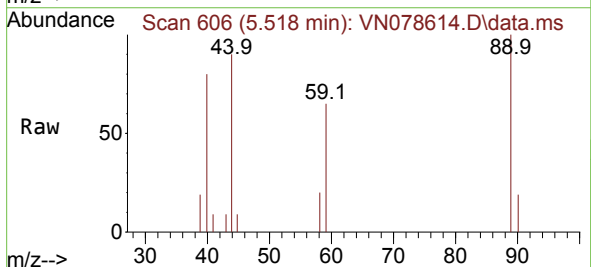


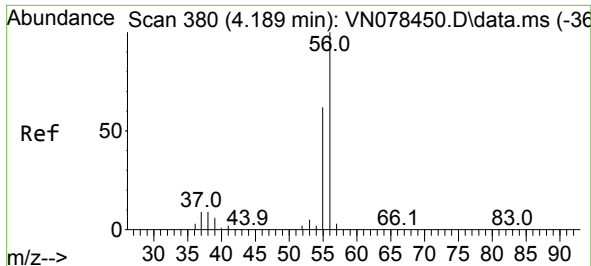
Tgt Ion:142 Resp: 2357
Ion Ratio Lower Upper
142 100
127 55.0 37.6 56.4
141 15.8 11.4 17.0



#11
Tert butyl alcohol
Concen: 3.033 ug/l
RT: 5.518 min Scan# 606
Delta R.T. -0.018 min
Lab File: VN078614.D
Acq: 21 Jul 2023 15:23

Tgt Ion: 59 Resp: 2592
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.4#

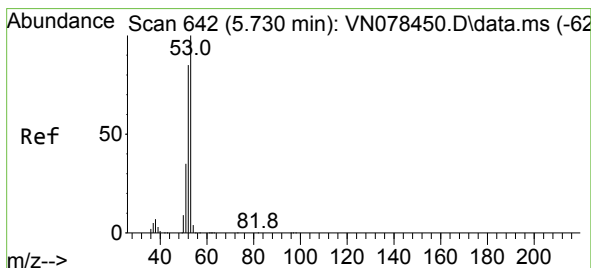
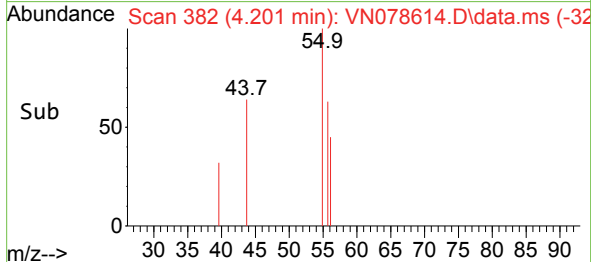
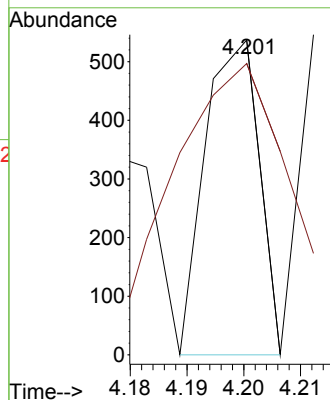
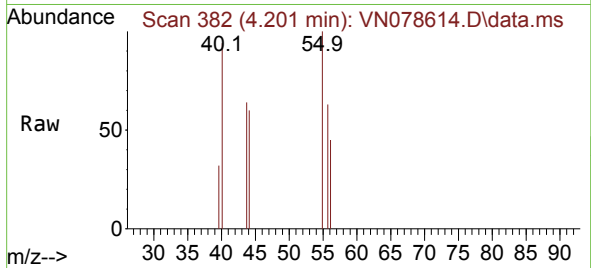




#13
Acrolein
Concen: 0.423 ug/l
RT: 4.201 min Scan# 31
Delta R.T. 0.012 min
Lab File: VN078614.D
Acq: 21 Jul 2023 15:23

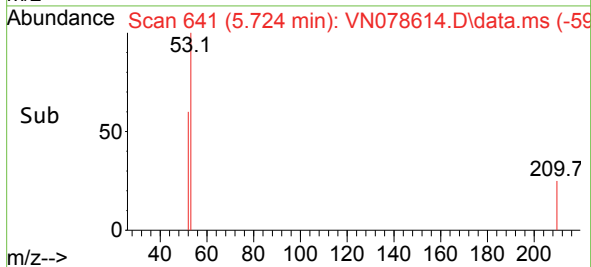
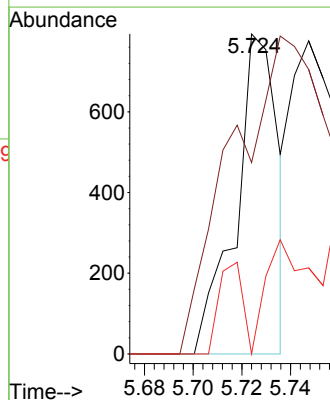
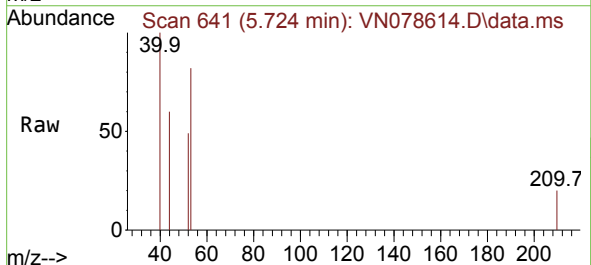
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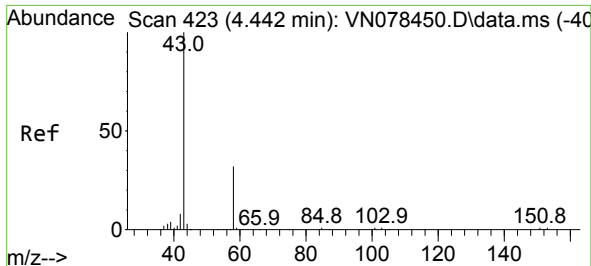
Tgt Ion: 56 Resp: 356
Ion Ratio Lower Upper
56 100
55 217.4 54.5 81.7#



#15
Acrylonitrile
Concen: 0.443 ug/l
RT: 5.724 min Scan# 641
Delta R.T. -0.006 min
Lab File: VN078614.D
Acq: 21 Jul 2023 15:23

Tgt Ion: 53 Resp: 957
Ion Ratio Lower Upper
53 100
52 0.0 65.3 97.9#
51 15.9 28.9 43.3#

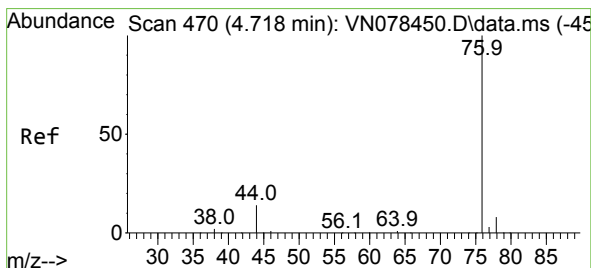
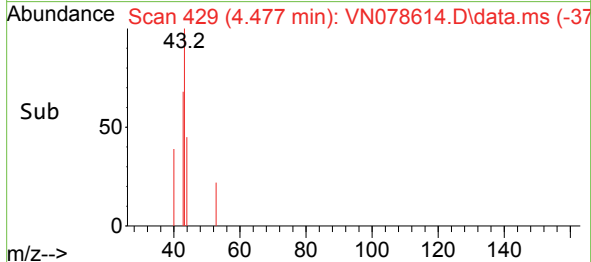
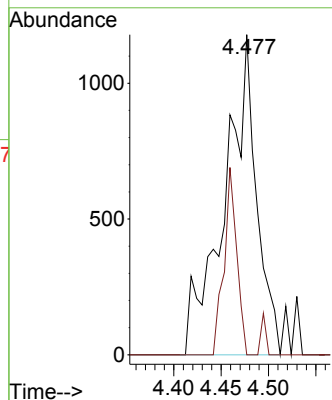
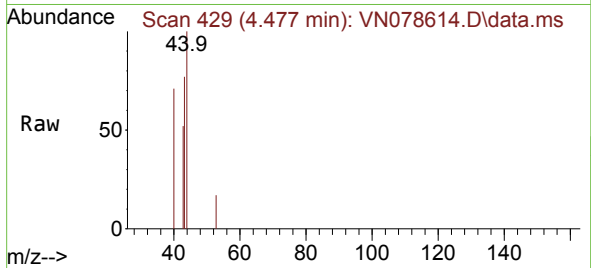




#16
Acetone
Concen: 1.613 ug/l
RT: 4.477 min Scan# 41
Delta R.T. 0.035 min
Lab File: VN078614.D
Acq: 21 Jul 2023 15:23

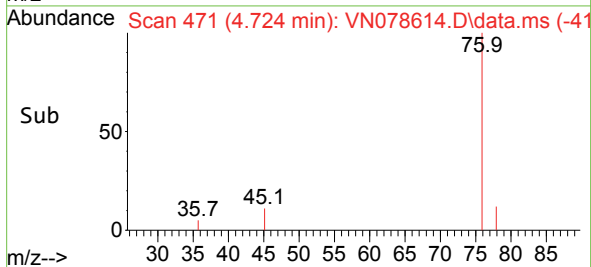
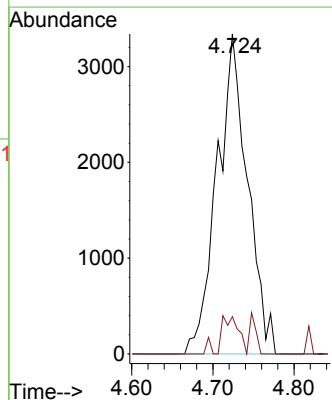
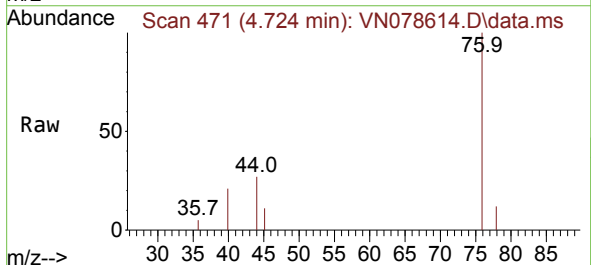
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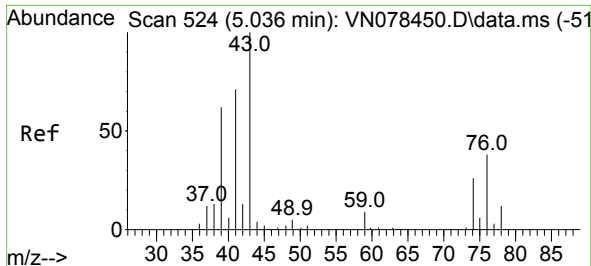
Tgt Ion: 43 Resp: 2785
Ion Ratio Lower Upper
43 100
58 0.0 28.0 42.0#



#17
Carbon Disulfide
Concen: 0.692 ug/l
RT: 4.724 min Scan# 471
Delta R.T. 0.006 min
Lab File: VN078614.D
Acq: 21 Jul 2023 15:23

Tgt Ion: 76 Resp: 8724
Ion Ratio Lower Upper
76 100
78 11.6 7.4 11.0#

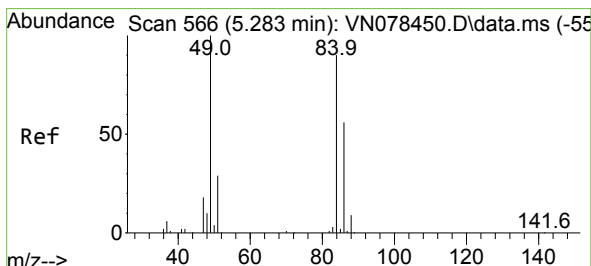
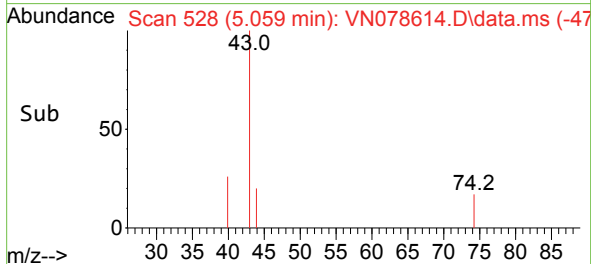
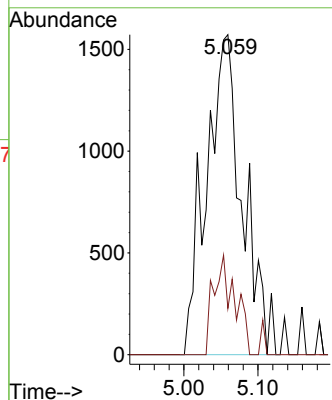
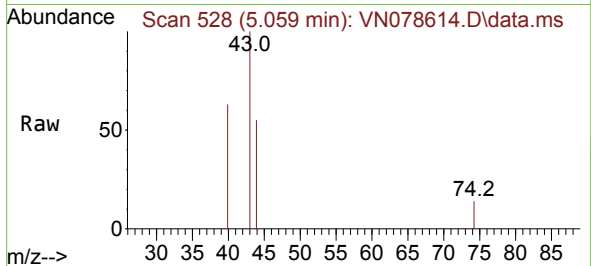




#18
Methyl Acetate
Concen: 0.728 ug/l
RT: 5.059 min Scan# 51
Delta R.T. 0.023 min
Lab File: VN078614.D
Acq: 21 Jul 2023 15:23

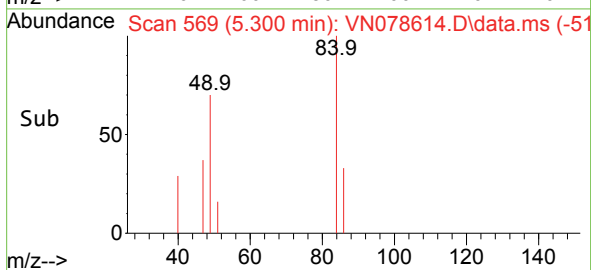
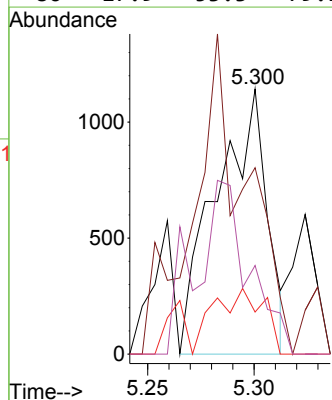
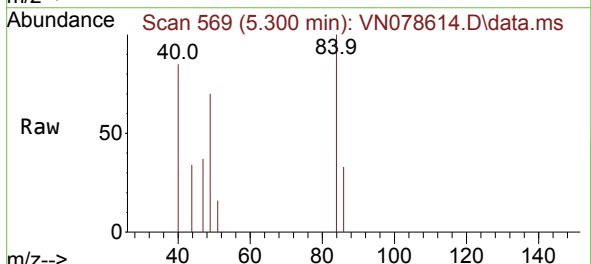
Instrument :
MSVOA_N
ClientSampleId :
IBLK

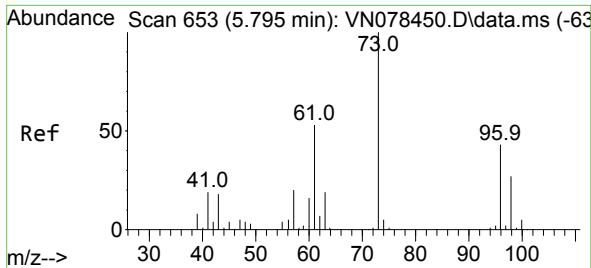
Tgt Ion: 43 Resp: 5322
Ion Ratio Lower Upper
43 100
74 18.4 26.2 39.4#



#20
Methylene Chloride
Concen: Below Cal
RT: 5.300 min Scan# 569
Delta R.T. 0.017 min
Lab File: VN078614.D
Acq: 21 Jul 2023 15:23

Tgt Ion: 84 Resp: 1908
Ion Ratio Lower Upper
84 100
49 48.8 79.7 119.5#
51 15.8 25.2 37.8#
86 17.9 53.3 79.9#

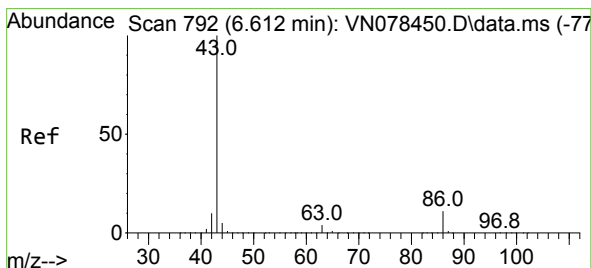
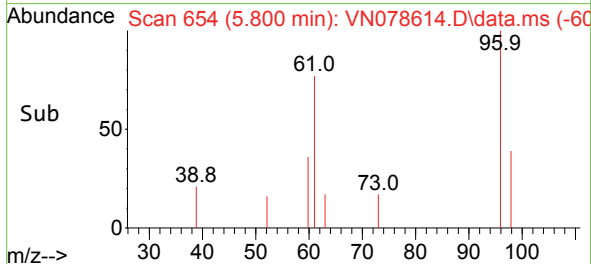
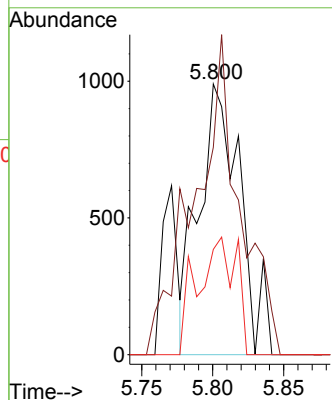
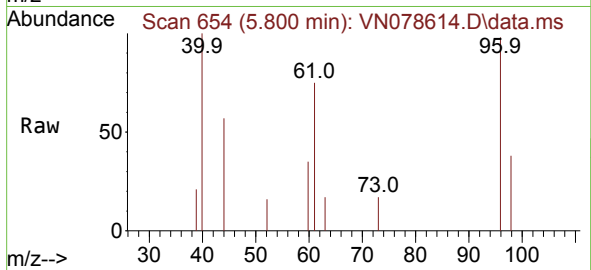




#21
trans-1,2-Dichloroethene
Concen: 0.408 ug/l
RT: 5.800 min Scan# 611
Delta R.T. 0.005 min
Lab File: VN078614.D
Acq: 21 Jul 2023 15:23

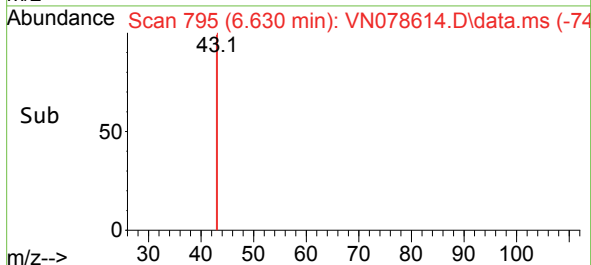
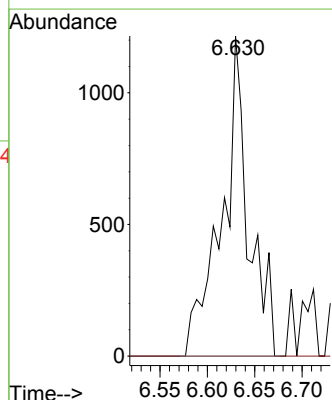
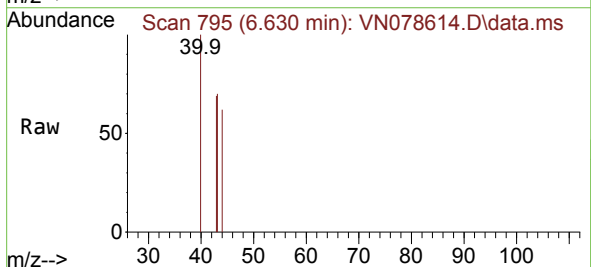
Instrument :
MSVOA_N
ClientSampleId :
IBLK

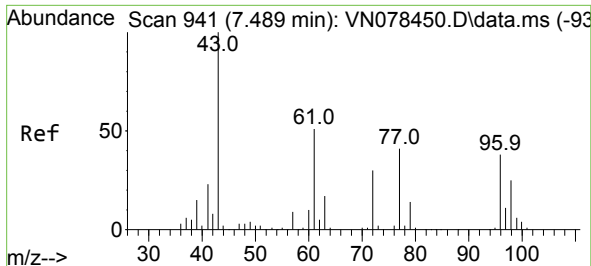
Tgt Ion: 96 Resp: 2004
Ion Ratio Lower Upper
96 100
61 76.6 90.1 135.1#
98 38.9 46.4 69.6#



#23
Vinyl Acetate
Concen: 0.280 ug/l
RT: 6.630 min Scan# 795
Delta R.T. 0.018 min
Lab File: VN078614.D
Acq: 21 Jul 2023 15:23

Tgt Ion: 43 Resp: 2380
Ion Ratio Lower Upper
43 100
86 0.0 13.0 19.6#

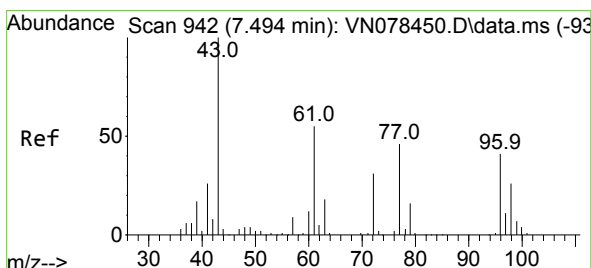
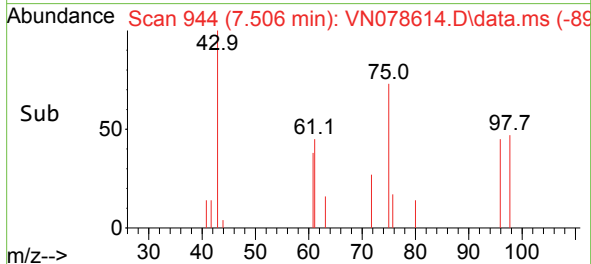
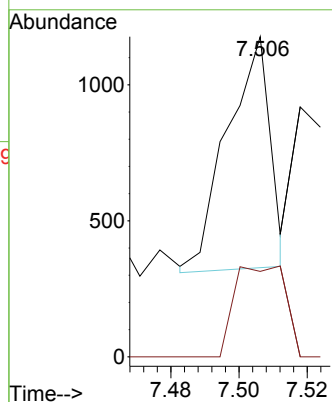
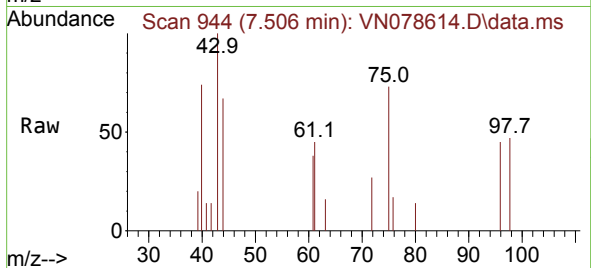




#25
2-Butanone
Concen: 0.276 ug/l
RT: 7.506 min Scan# 941
Delta R.T. 0.017 min
Lab File: VN078614.D
Acq: 21 Jul 2023 15:23

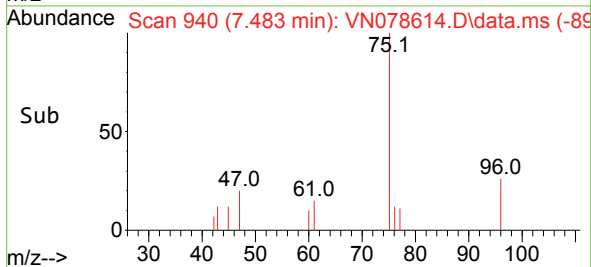
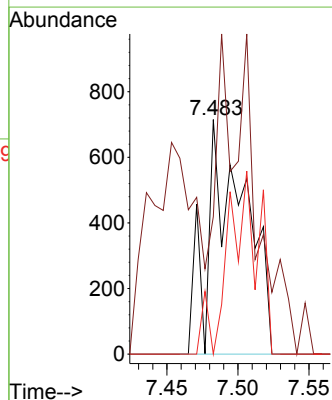
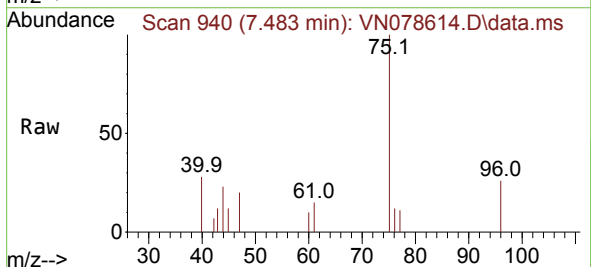
Instrument :
MSVOA_N
ClientSampleId :
IBLK

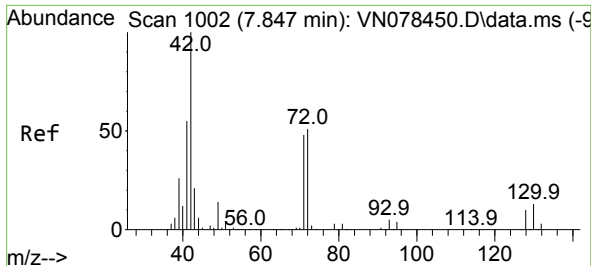
Tgt Ion: 43 Resp: 750
Ion Ratio Lower Upper
43 100
72 37.2 30.2 45.2



#27
cis-1,2-Dichloroethene
Concen: 0.234 ug/l
RT: 7.483 min Scan# 940
Delta R.T. -0.011 min
Lab File: VN078614.D
Acq: 21 Jul 2023 15:23

Tgt Ion: 96 Resp: 1332
Ion Ratio Lower Upper
96 100
61 131.6 0.0 255.2
98 0.0 0.0 128.8

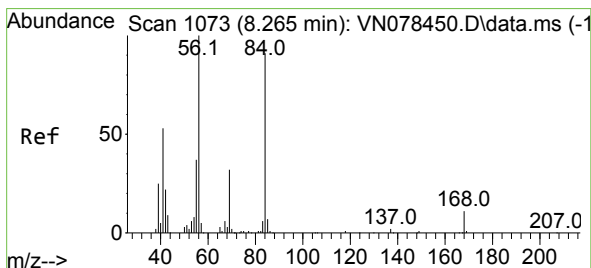
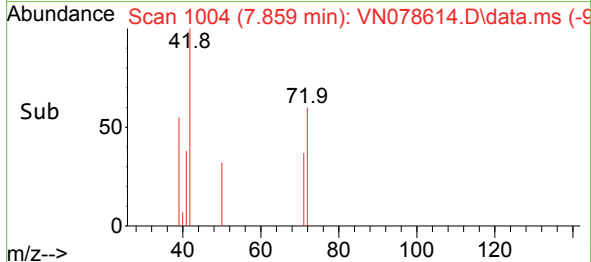
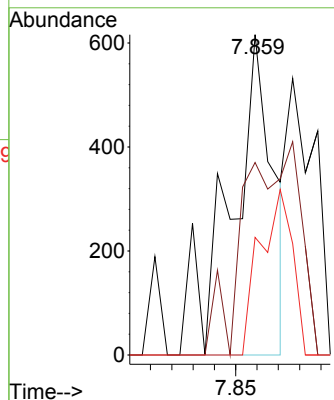
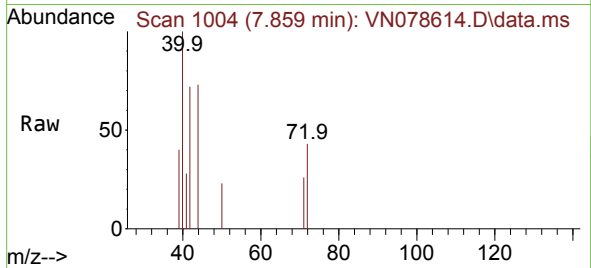




#29
Tetrahydrofuran
Concen: 0.484 ug/l
RT: 7.859 min Scan# 1004
Delta R.T. 0.012 min
Lab File: VN078614.D
Acq: 21 Jul 2023 15:23

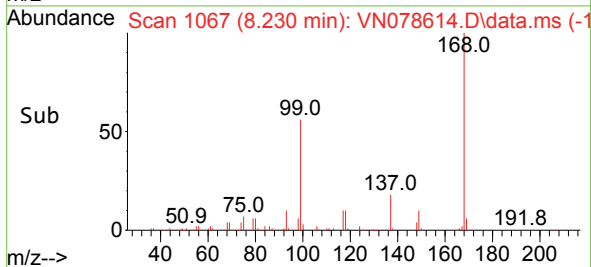
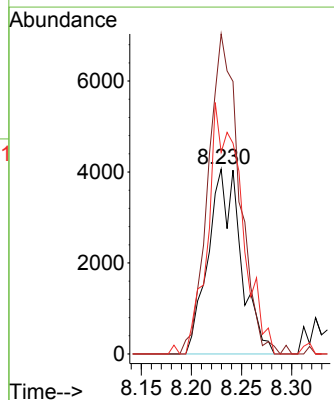
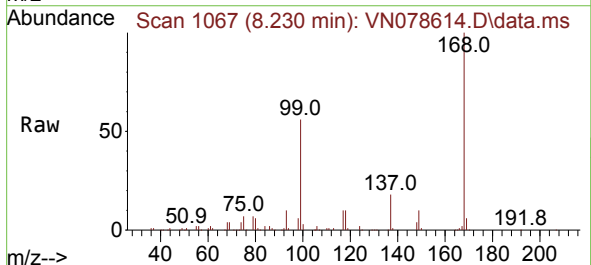
Instrument :
MSVOA_N
ClientSampleId :
IBLK

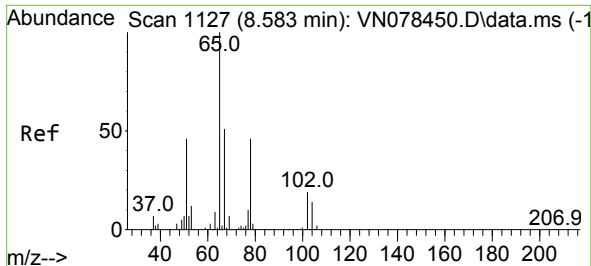
Tgt Ion: 42 Resp: 863
Ion Ratio Lower Upper
42 100
72 87.3 49.8 74.6#
71 39.0 47.4 71.2#



#31
Cyclohexane
Concen: 1.228 ug/l
RT: 8.230 min Scan# 1067
Delta R.T. -0.035 min
Lab File: VN078614.D
Acq: 21 Jul 2023 15:23

Tgt Ion: 56 Resp: 9196
Ion Ratio Lower Upper
56 100
69 173.2 26.8 40.2#
84 109.1 81.8 122.6





#33

1,2-Dichloroethane-d4

Concen: 49.719 ug/l

RT: 8.588 min Scan# 1127

Delta R.T. 0.005 min

Lab File: VN078614.D

Acq: 21 Jul 2023 15:23

Instrument :

MSVOA_N

ClientSampleId :

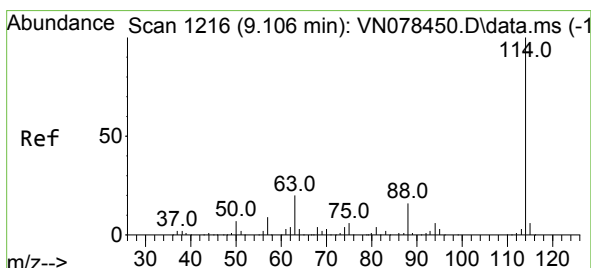
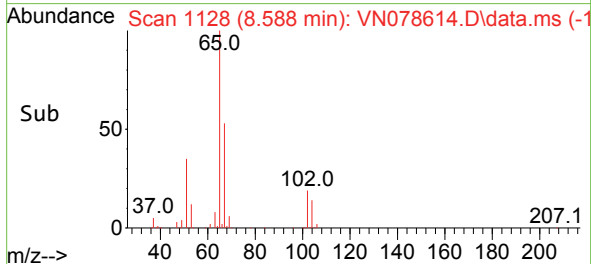
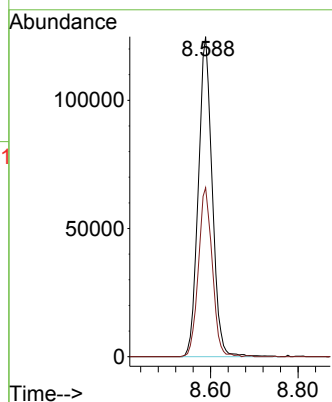
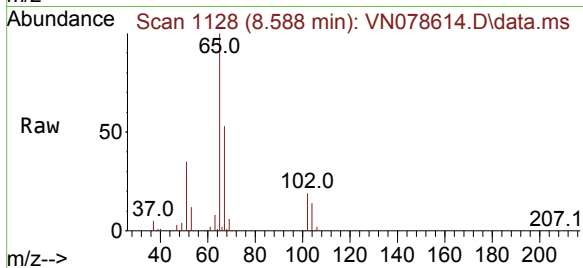
IBLK

Tgt Ion: 65 Resp: 275552

Ion Ratio Lower Upper

65 100

67 52.7 0.0 106.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.112 min Scan# 1217

Delta R.T. 0.006 min

Lab File: VN078614.D

Acq: 21 Jul 2023 15:23

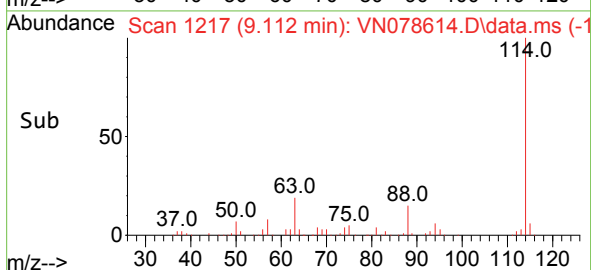
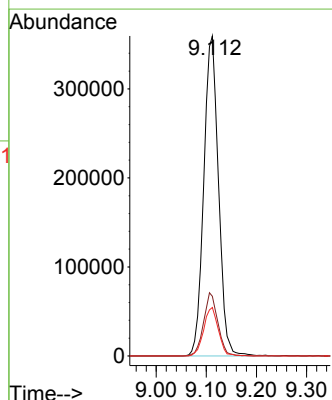
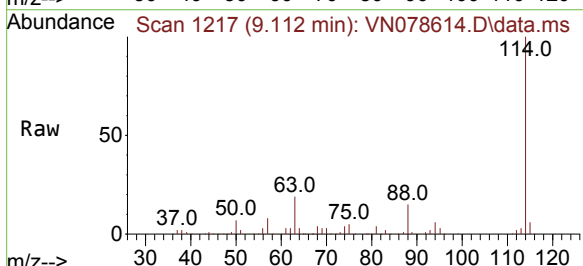
Tgt Ion: 114 Resp: 733748

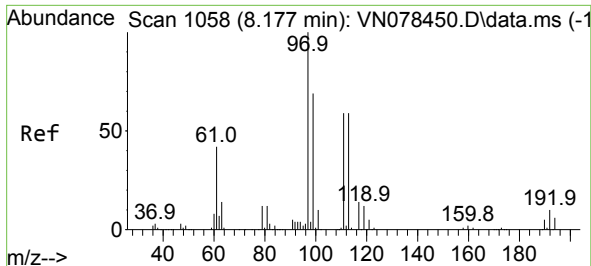
Ion Ratio Lower Upper

114 100

63 18.7 0.0 36.4

88 15.1 0.0 30.6

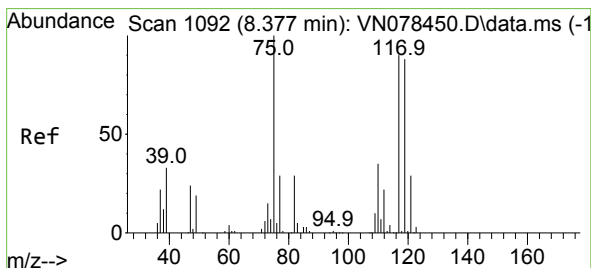
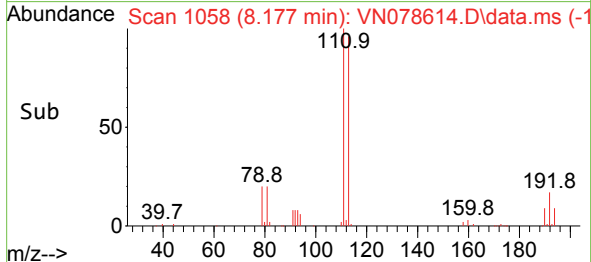
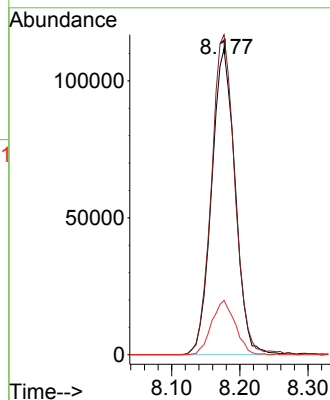
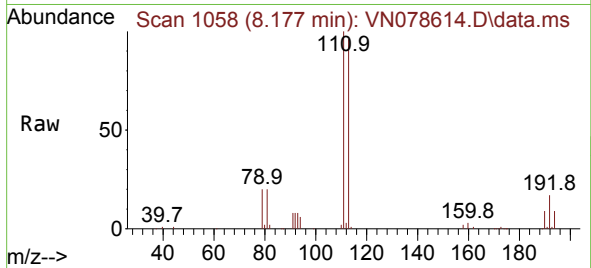




#35
Dibromofluoromethane
Concen: 53.755 ug/l
RT: 8.177 min Scan# 1058
Delta R.T. -0.000 min
Lab File: VN078614.D
Acq: 21 Jul 2023 15:23

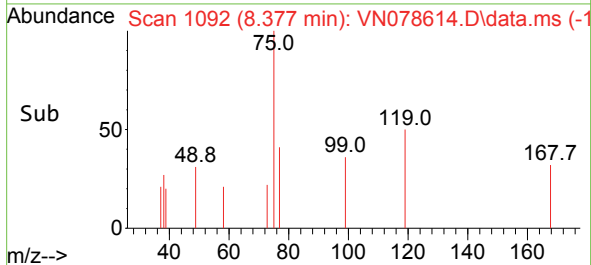
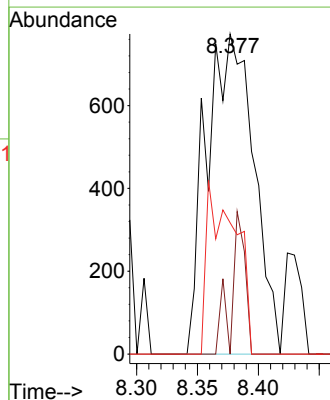
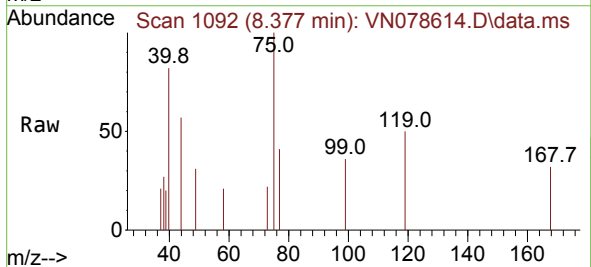
Instrument :
MSVOA_N
ClientSampleId :
IBLK

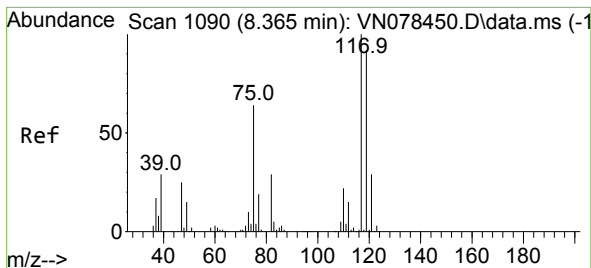
Tgt Ion:113 Resp: 267749
Ion Ratio Lower Upper
113 100
111 104.7 82.6 123.8
192 17.9 12.7 19.1



#36
1,1-Dichloropropene
Concen: 0.292 ug/l
RT: 8.377 min Scan# 1092
Delta R.T. -0.000 min
Lab File: VN078614.D
Acq: 21 Jul 2023 15:23

Tgt Ion: 75 Resp: 2098
Ion Ratio Lower Upper
75 100
110 13.0 19.1 57.3#
77 0.0 25.0 37.4#





#38

Carbon Tetrachloride

Concen: 5.488 ug/l

RT: 8.236 min Scan# 1068

Delta R.T. -0.129 min

Lab File: VN078614.D

Acq: 21 Jul 2023 15:23

Instrument :

MSVOA_N

ClientSampleId :

IBLK

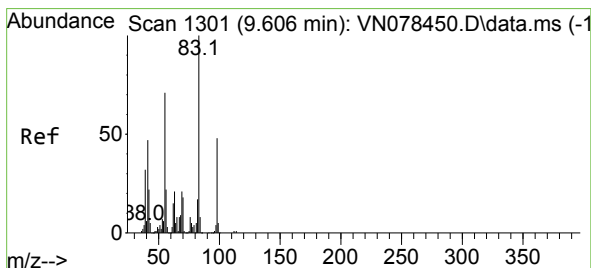
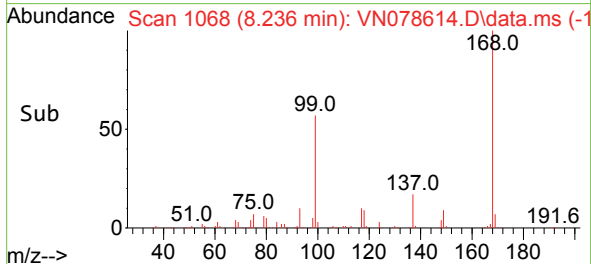
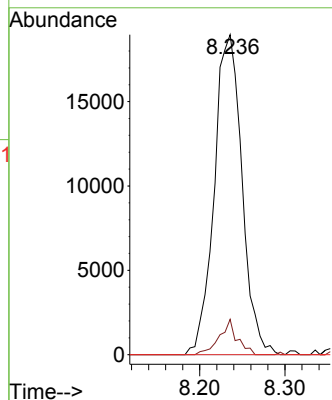
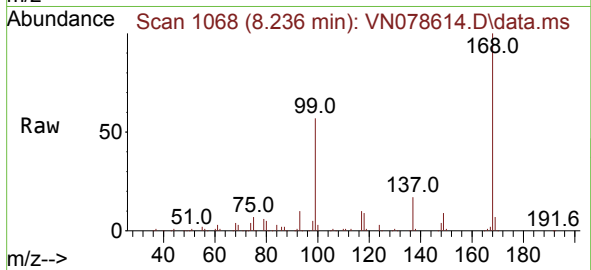
Tgt Ion:117 Resp: 42896

Ion Ratio Lower Upper

117 100

119 11.0 77.3 115.9#

121 0.0 23.3 34.9#



#39

Methylcyclohexane

Concen: 0.326 ug/l

RT: 9.612 min Scan# 1302

Delta R.T. 0.006 min

Lab File: VN078614.D

Acq: 21 Jul 2023 15:23

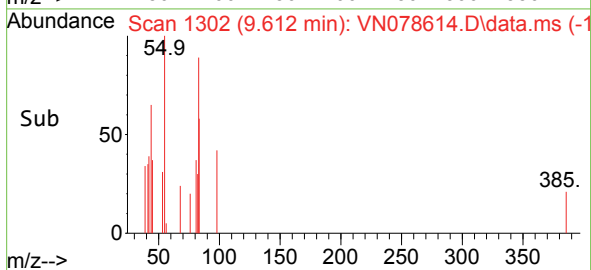
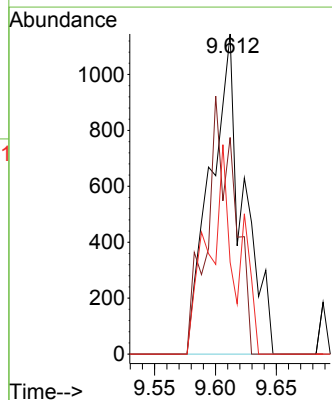
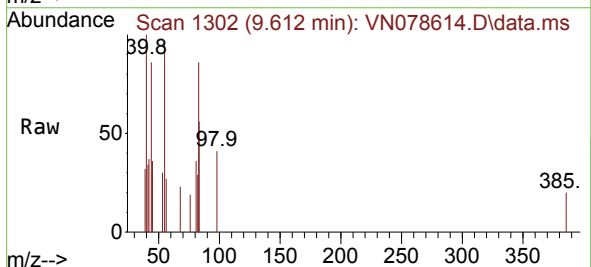
Tgt Ion: 83 Resp: 2140

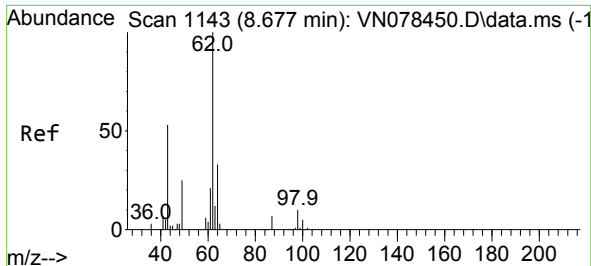
Ion Ratio Lower Upper

83 100

55 67.7 49.1 73.7

98 28.7 40.6 61.0#





#42

1,2-Dichloroethane

Concen: 0.254 ug/l

RT: 8.677 min Scan# 1143

Delta R.T. -0.000 min

Lab File: VN078614.D

Acq: 21 Jul 2023 15:23

Instrument :

MSVOA_N

ClientSampleId :

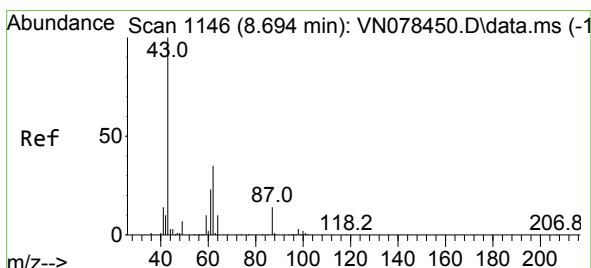
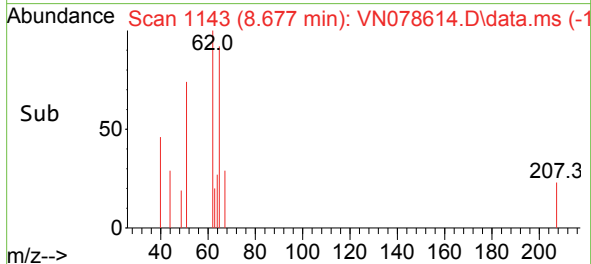
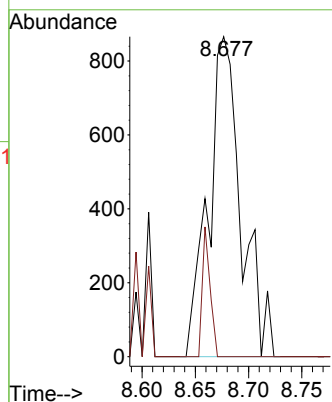
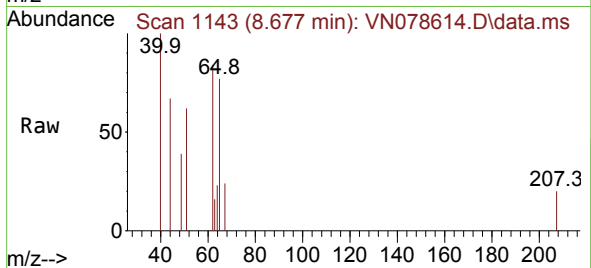
IBLK

Tgt Ion: 62 Resp: 1841

Ion Ratio Lower Upper

62 100

98 9.7 0.0 19.8



#43

Isopropyl Acetate

Concen: 1.011 ug/l

RT: 8.765 min Scan# 1158

Delta R.T. 0.071 min

Lab File: VN078614.D

Acq: 21 Jul 2023 15:23

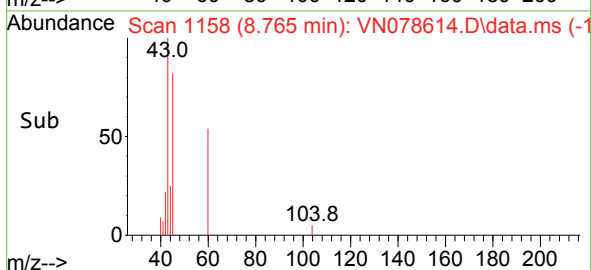
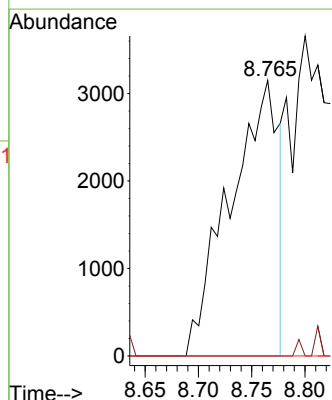
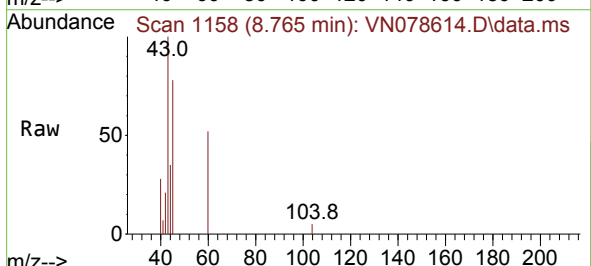
Tgt Ion: 43 Resp: 9984

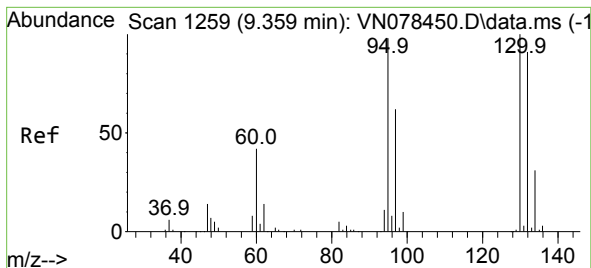
Ion Ratio Lower Upper

43 100

61 0.0 24.7 37.1#

87 0.0 14.6 21.8#





#44

Trichloroethene

Concen: 0.369 ug/l

RT: 9.359 min Scan# 1319

Delta R.T. 0.000 min

Lab File: VN078614.D

Acq: 21 Jul 2023 15:23

Instrument :

MSVOA_N

ClientSampleId :

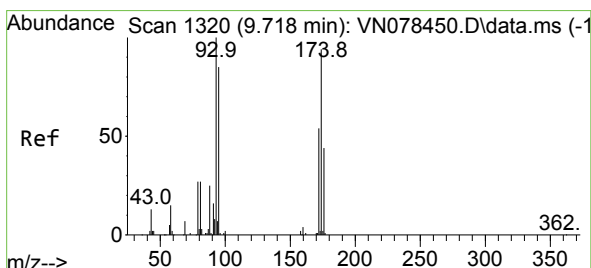
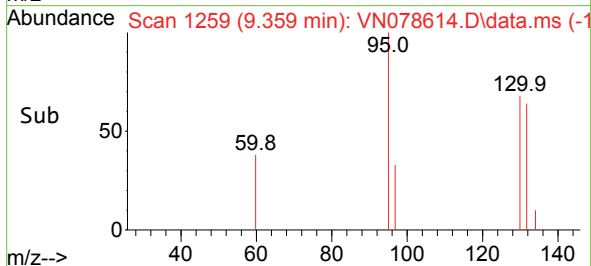
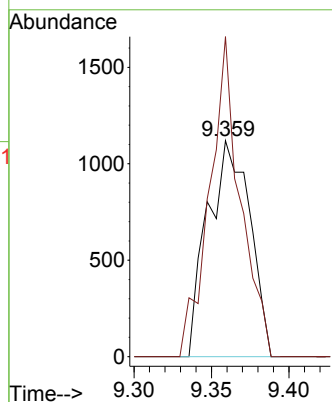
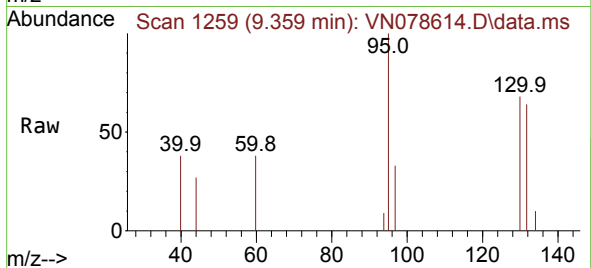
IBLK

Tgt Ion:130 Resp: 2117

Ion Ratio Lower Upper

130 100

95 148.1 0.0 204.6



#46

Dibromomethane

Concen: 0.219 ug/l

RT: 9.712 min Scan# 1319

Delta R.T. -0.006 min

Lab File: VN078614.D

Acq: 21 Jul 2023 15:23

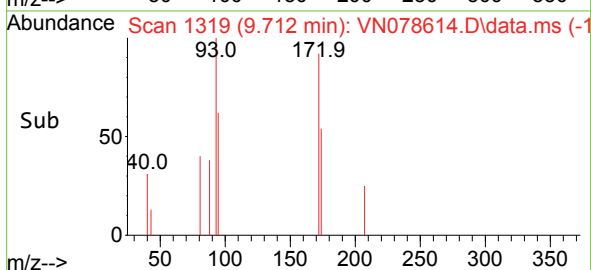
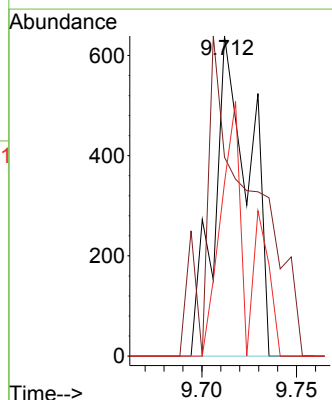
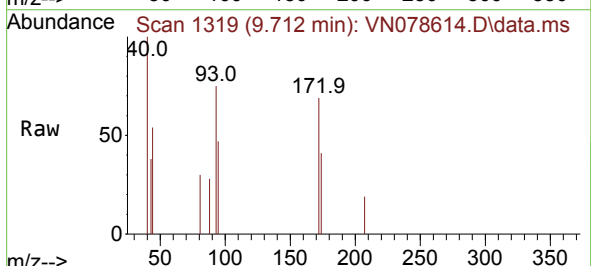
Tgt Ion: 93 Resp: 833

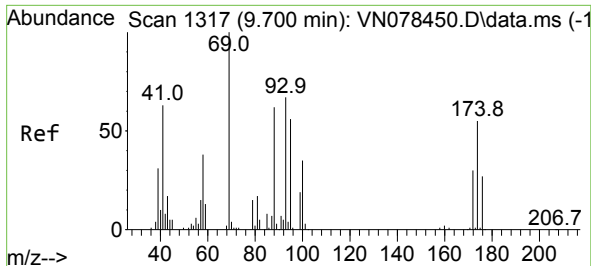
Ion Ratio Lower Upper

93 100

95 126.4 63.8 95.8#

174 62.7 65.6 98.4#





#49

1,4-Dioxane

Concen: 3.098 ug/l

RT: 9.712 min Scan# 1

Delta R.T. 0.012 min

Lab File: VN078614.D

Acq: 21 Jul 2023 15:23

Instrument :

MSVOA_N

ClientSampleId :

IBLK

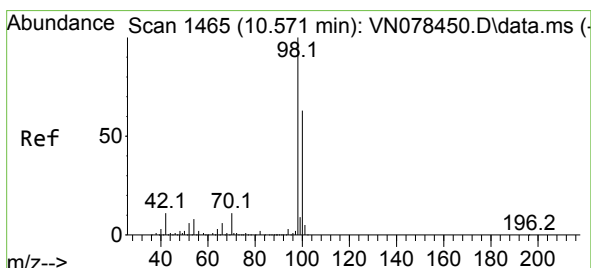
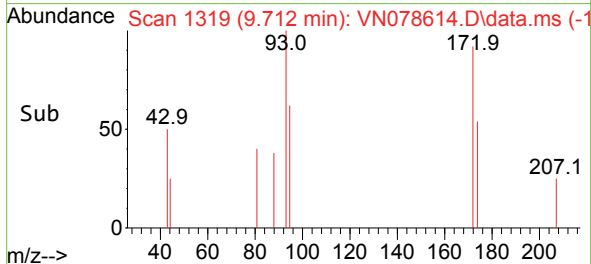
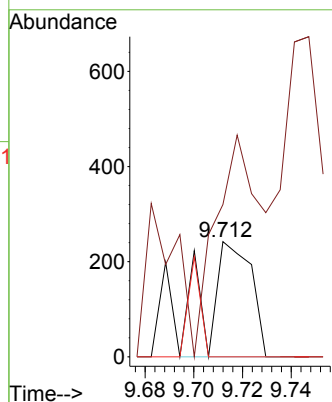
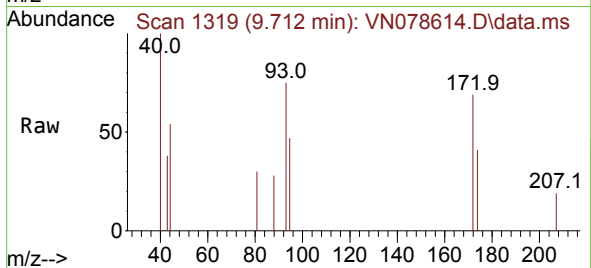
Tgt Ion: 88 Resp: 309

Ion Ratio Lower Upper

88 100

43 192.9 17.0 25.6#

58 23.9 47.0 70.4#



#50

Toluene-d8

Concen: 45.885 ug/l

RT: 10.571 min Scan# 1465

Delta R.T. -0.000 min

Lab File: VN078614.D

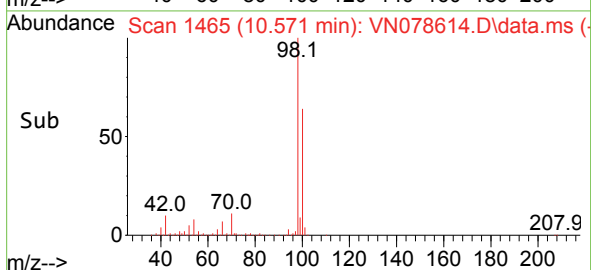
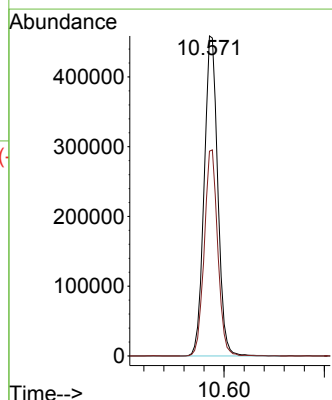
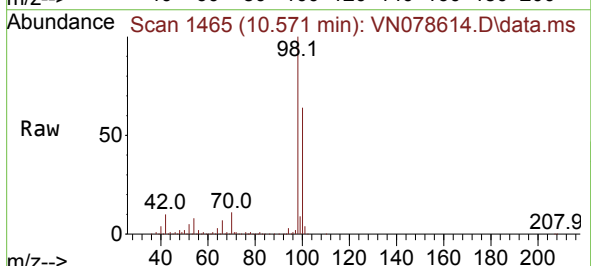
Acq: 21 Jul 2023 15:23

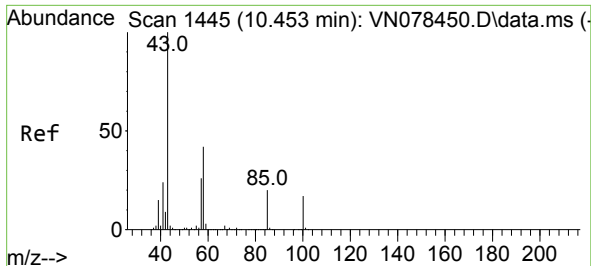
Tgt Ion: 98 Resp: 863385

Ion Ratio Lower Upper

98 100

100 63.9 52.0 78.0

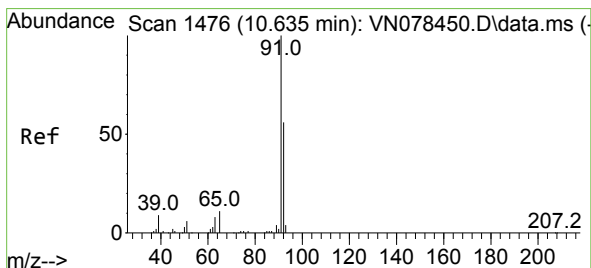
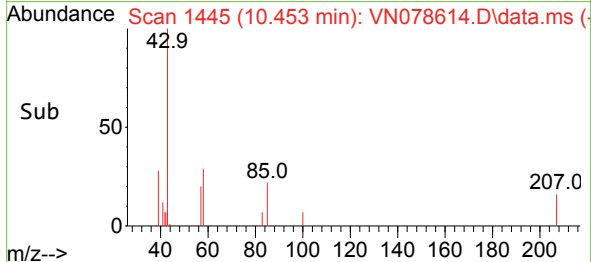
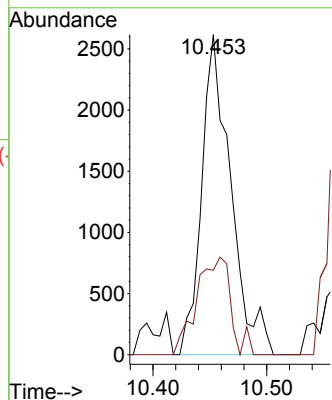
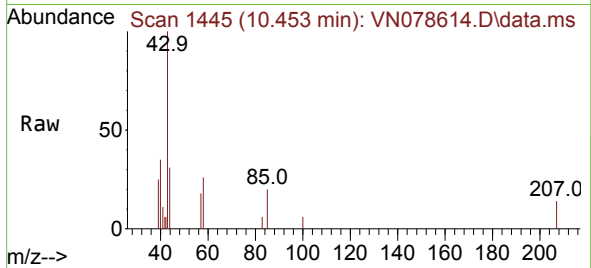




#51
4-Methyl-2-Pentanone
Concen: 0.794 ug/l
RT: 10.453 min Scan# 1445
Delta R.T. 0.000 min
Lab File: VN078614.D
Acq: 21 Jul 2023 15:23

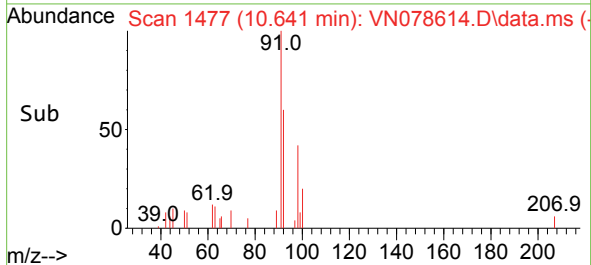
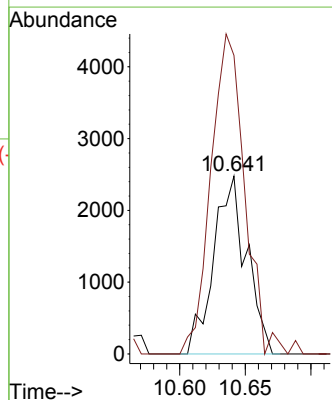
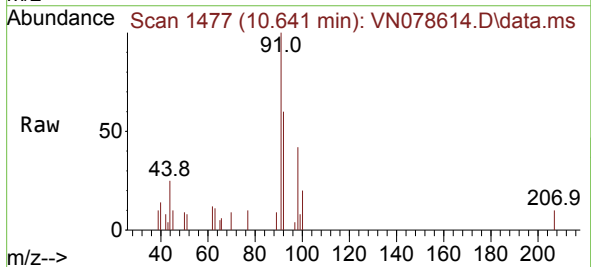
Instrument :
MSVOA_N
ClientSampleId :
IBLK

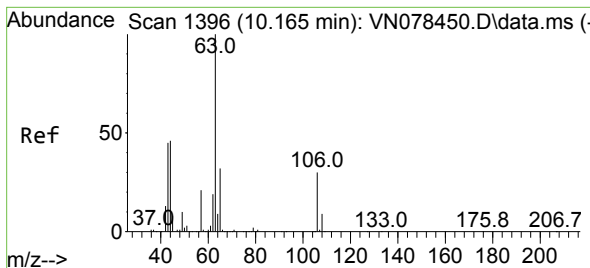
Tgt Ion: 43 Resp: 4659
Ion Ratio Lower Upper
43 100
58 35.7 36.6 54.8#



#52
Toluene
Concen: 0.328 ug/l
RT: 10.641 min Scan# 1477
Delta R.T. 0.006 min
Lab File: VN078614.D
Acq: 21 Jul 2023 15:23

Tgt Ion: 92 Resp: 4329
Ion Ratio Lower Upper
92 100
91 184.2 137.4 206.0

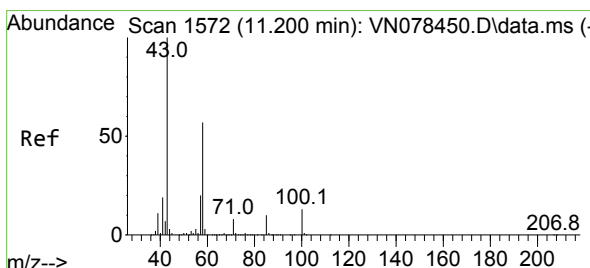
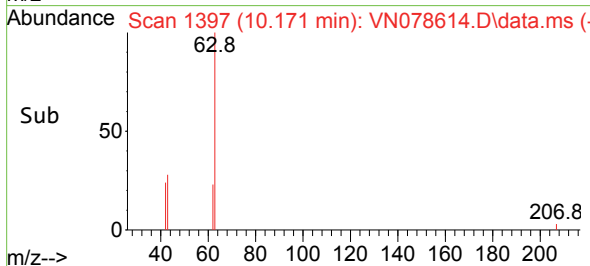
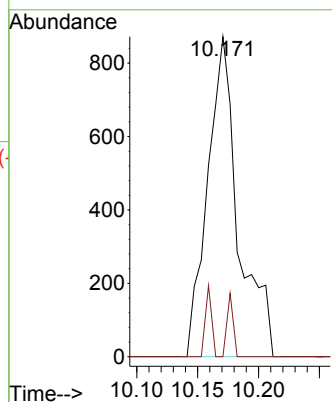
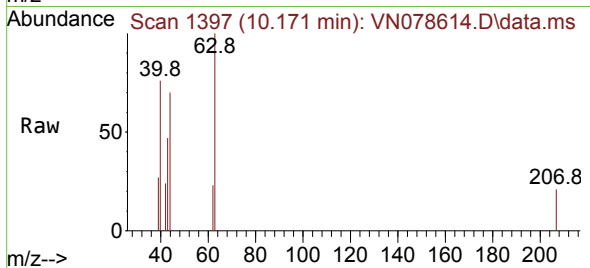




#58
2-Chloroethyl Vinyl ether
Concen: 0.590 ug/l
RT: 10.171 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN078614.D
Acq: 21 Jul 2023 15:23

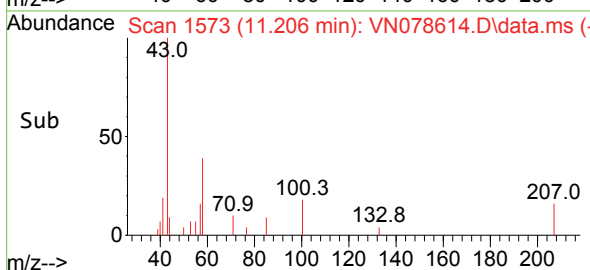
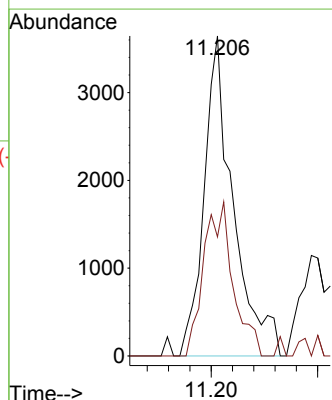
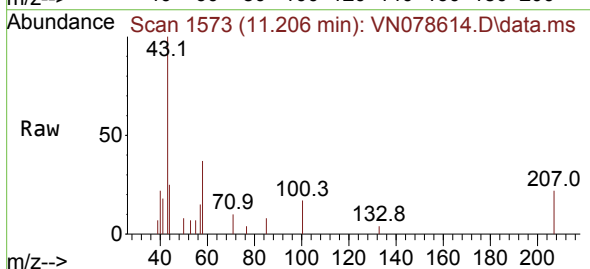
Instrument :
MSVOA_N
ClientSampleId :
IBLK

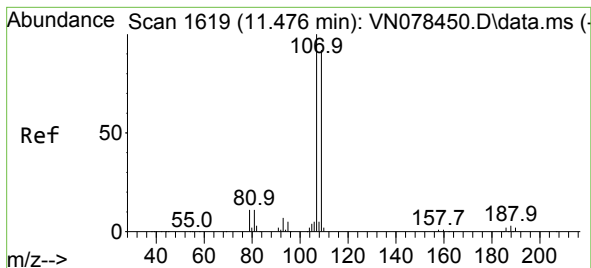
Tgt Ion: 63 Resp: 1528
Ion Ratio Lower Upper
63 100
106 4.0 26.2 39.4#



#59
2-Hexanone
Concen: 1.659 ug/l
RT: 11.206 min Scan# 1573
Delta R.T. 0.006 min
Lab File: VN078614.D
Acq: 21 Jul 2023 15:23

Tgt Ion: 43 Resp: 6922
Ion Ratio Lower Upper
43 100
58 48.3 31.7 95.1





#61

1,2-Dibromoethane

Concen: 0.215 ug/l

RT: 11.477 min Scan# 1

Delta R.T. 0.001 min

Lab File: VN078614.D

Acq: 21 Jul 2023 15:23

Instrument :

MSVOA_N

ClientSampleId :

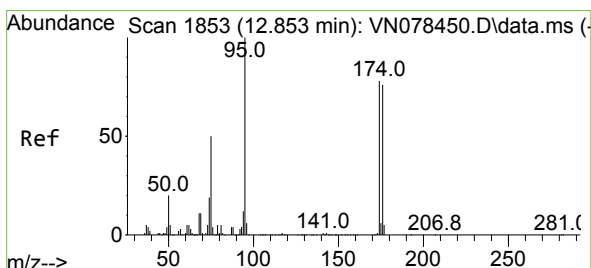
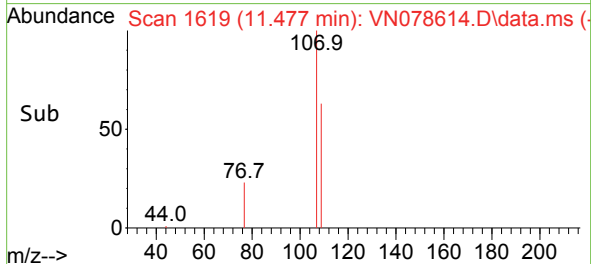
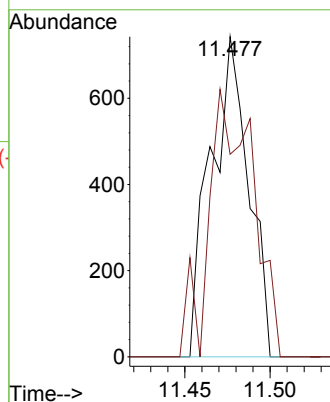
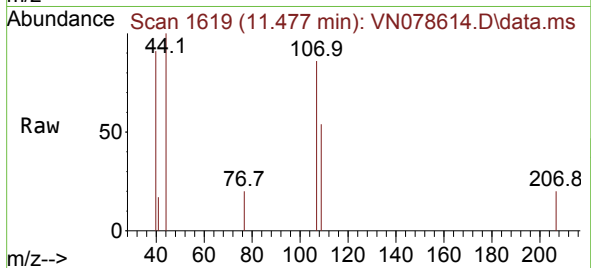
IBLK

Tgt Ion:107 Resp: 1153

Ion Ratio Lower Upper

107 100

109 97.2 76.6 114.8



#62

4-Bromofluorobenzene

Concen: 48.185 ug/l

RT: 12.853 min Scan# 1853

Delta R.T. -0.000 min

Lab File: VN078614.D

Acq: 21 Jul 2023 15:23

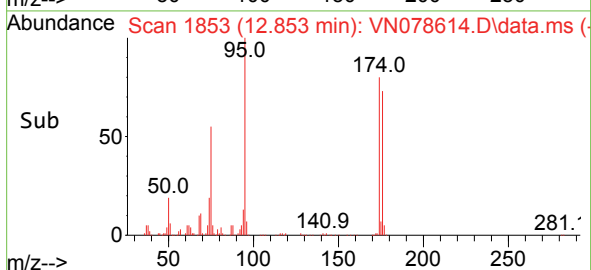
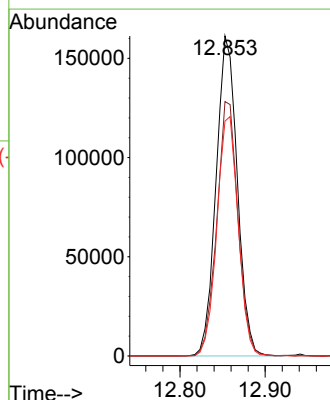
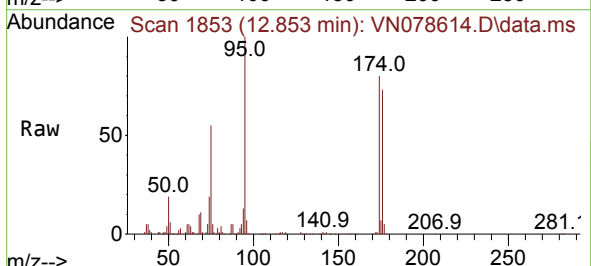
Tgt Ion: 95 Resp: 279274

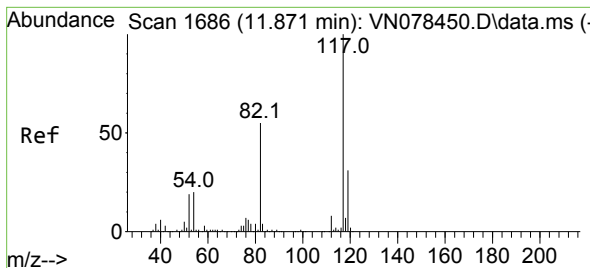
Ion Ratio Lower Upper

95 100

174 79.7 0.0 143.8

176 75.0 0.0 135.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.871 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN078614.D

Acq: 21 Jul 2023 15:23

Instrument :

MSVOA_N

ClientSampleId :

IBLK

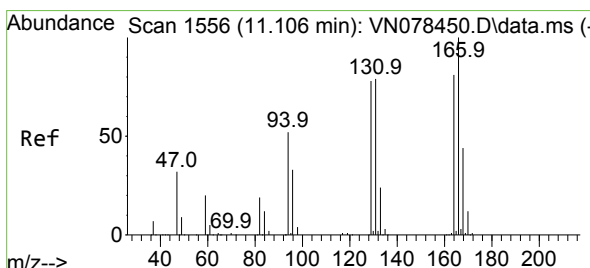
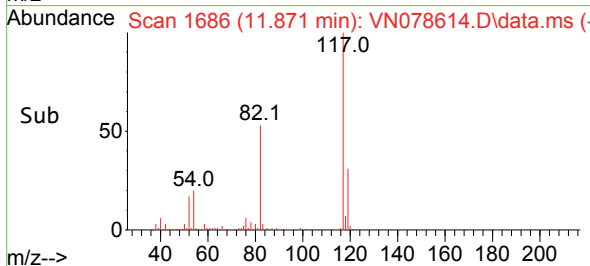
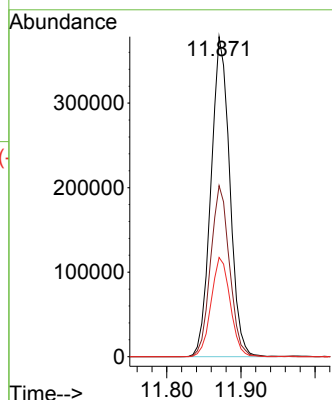
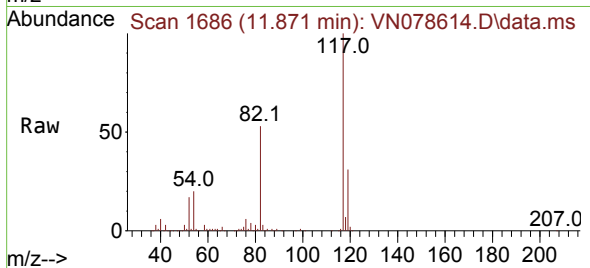
Tgt Ion:117 Resp: 667176

Ion Ratio Lower Upper

117 100

82 53.4 44.0 66.0

119 31.0 25.6 38.4



#64

Tetrachloroethene

Concen: 0.272 ug/l

RT: 11.112 min Scan# 1557

Delta R.T. 0.006 min

Lab File: VN078614.D

Acq: 21 Jul 2023 15:23

Tgt Ion:164 Resp: 1365

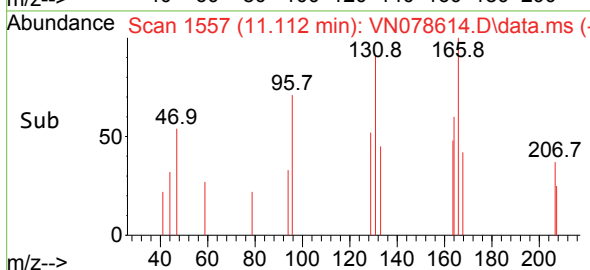
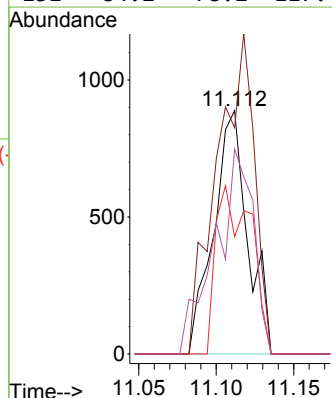
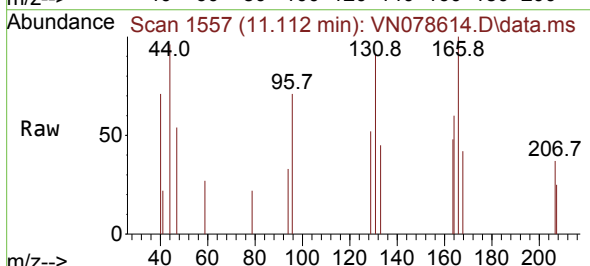
Ion Ratio Lower Upper

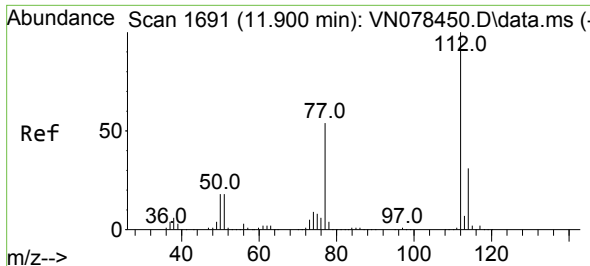
164 100

166 93.0 101.4 152.0#

129 48.2 82.4 123.6#

131 84.2 78.2 117.4

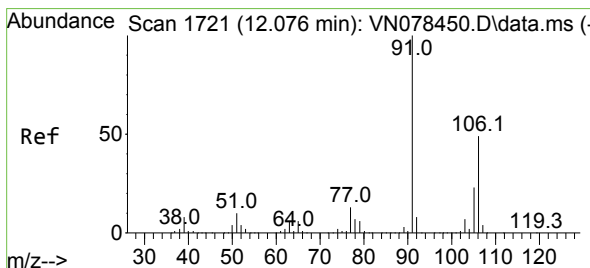
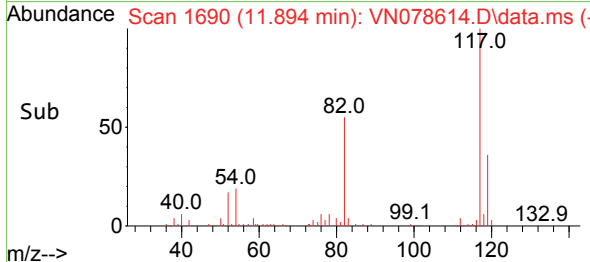
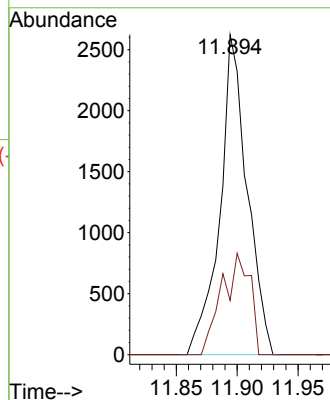
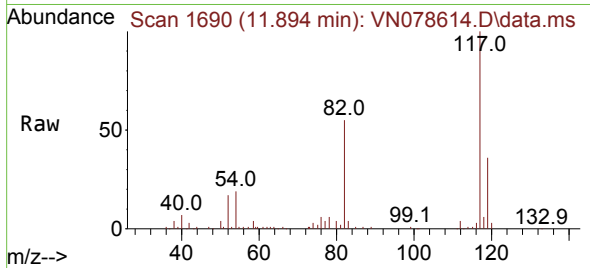




#65
Chlorobenzene
Concen: 0.274 ug/l
RT: 11.894 min Scan# 1690
Delta R.T. -0.006 min
Lab File: VN078614.D
Acq: 21 Jul 2023 15:23

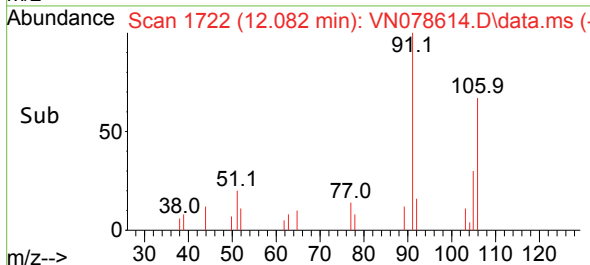
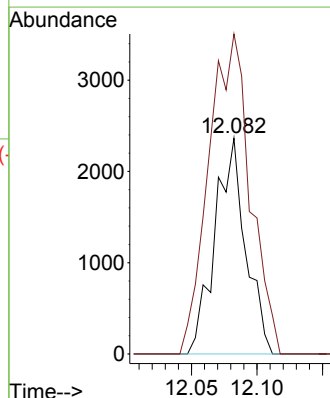
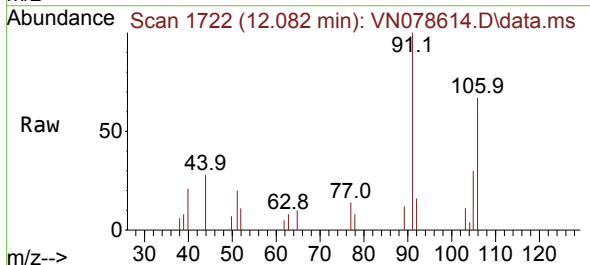
Instrument :
MSVOA_N
ClientSampleId :
IBLK

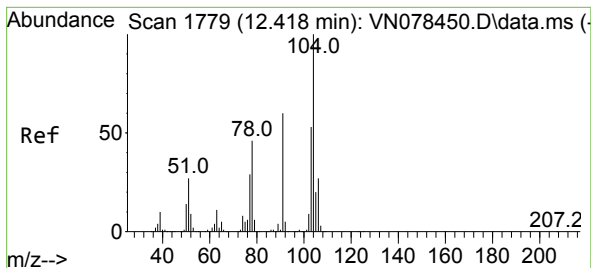
Tgt Ion:112 Resp: 4087
Ion Ratio Lower Upper
112 100
114 16.9 25.0 37.4#



#68
m/p-Xylenes
Concen: 0.414 ug/l
RT: 12.082 min Scan# 1722
Delta R.T. 0.006 min
Lab File: VN078614.D
Acq: 21 Jul 2023 15:23

Tgt Ion:106 Resp: 3855
Ion Ratio Lower Upper
106 100
91 200.3 159.6 239.4





#70

Styrene

Concen: 0.235 ug/l

RT: 12.412 min Scan# 1779

Delta R.T. -0.006 min

Lab File: VN078614.D

Acq: 21 Jul 2023 15:23

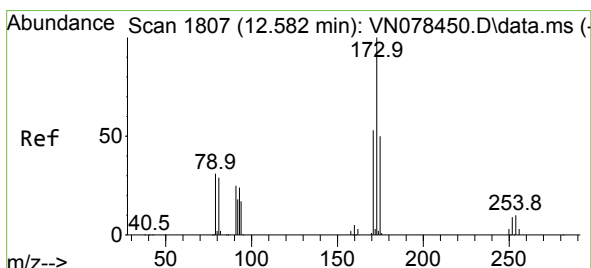
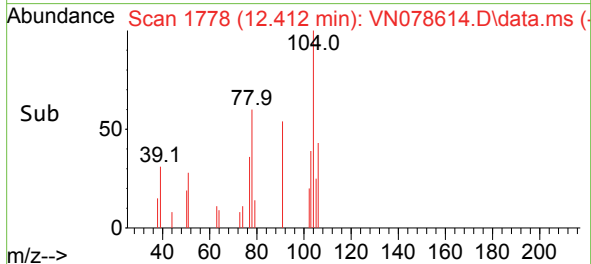
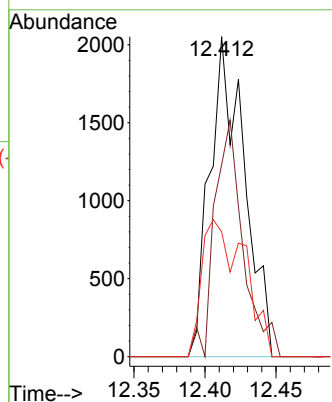
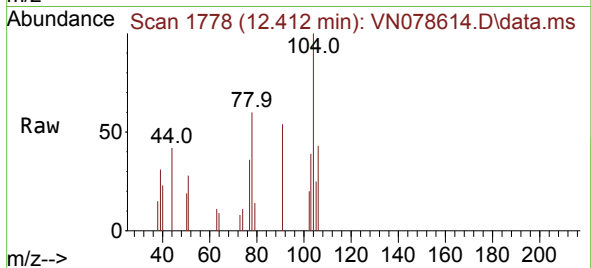
Instrument :

MSVOA_N

ClientSampleId :

IBLK

Tgt Ion:	104	Resp:	3466
Ion Ratio	Lower	Upper	
104	100		
78	61.2	39.5	59.3#
103	52.9	43.2	64.8



#71

Bromoform

Concen: 0.240 ug/l

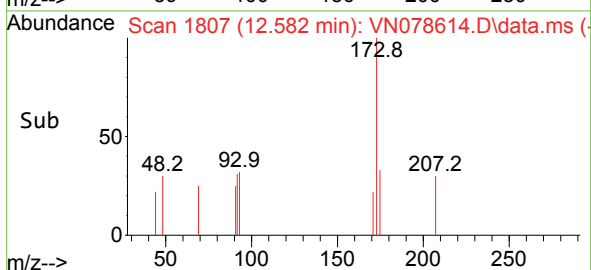
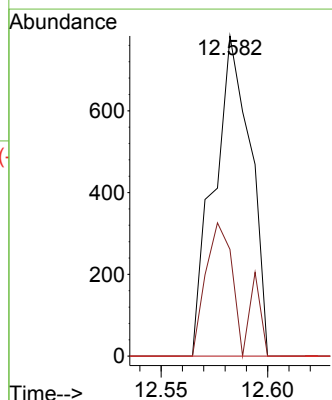
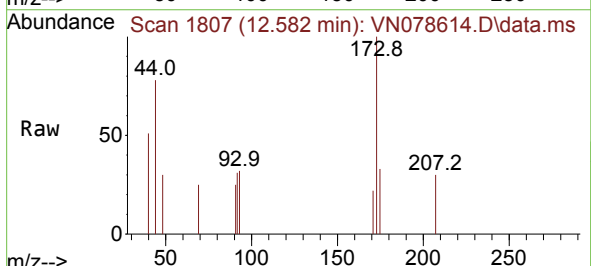
RT: 12.582 min Scan# 1807

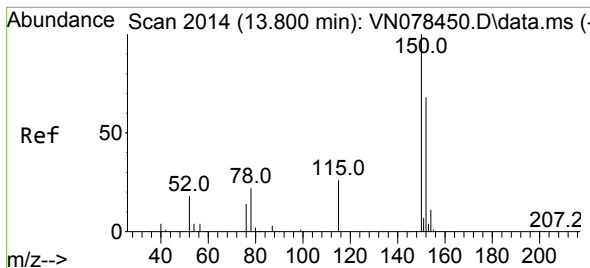
Delta R.T. 0.000 min

Lab File: VN078614.D

Acq: 21 Jul 2023 15:23

Tgt Ion:	173	Resp:	933
Ion Ratio	Lower	Upper	
173	100		
175	0.0	24.3	73.0#
254	0.0	0.0	0.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.800 min Scan# 2014

Delta R.T. -0.000 min

Lab File: VN078614.D

Acq: 21 Jul 2023 15:23

Instrument :

MSVOA_N

ClientSampleId :

IBLK

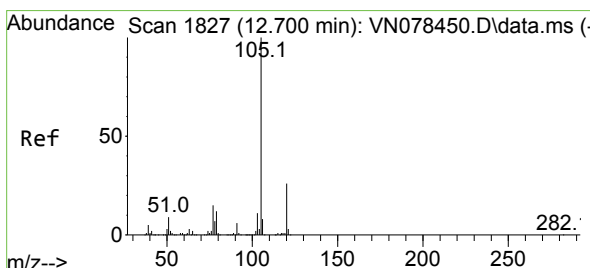
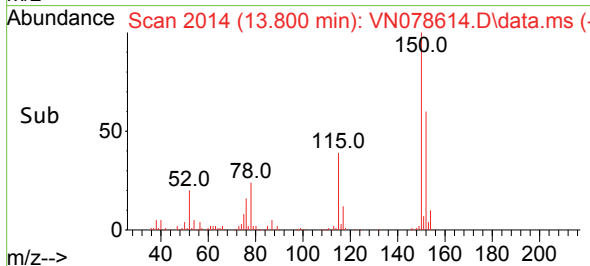
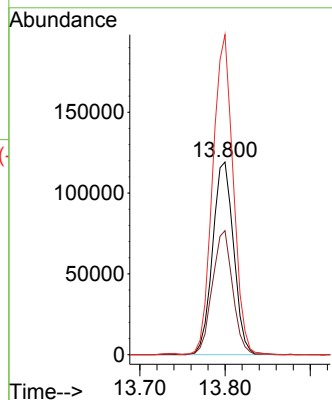
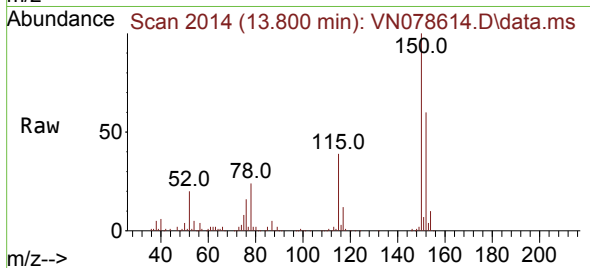
Tgt Ion:152 Resp: 204665

Ion Ratio Lower Upper

152 100

115 62.3 32.3 96.8

150 162.4 0.0 355.8



#73

Isopropylbenzene

Concen: 0.211 ug/l

RT: 12.700 min Scan# 1827

Delta R.T. -0.000 min

Lab File: VN078614.D

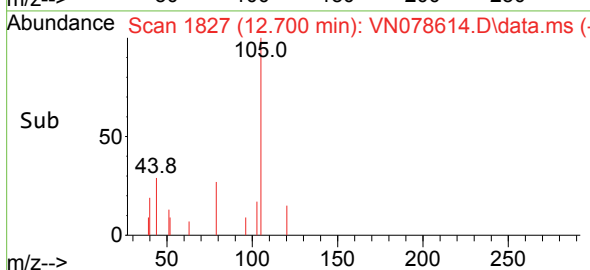
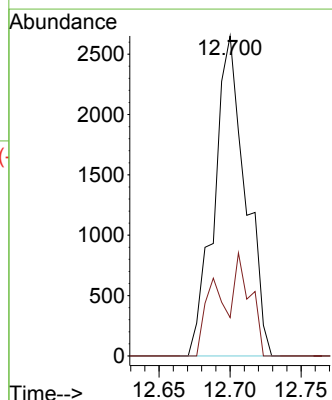
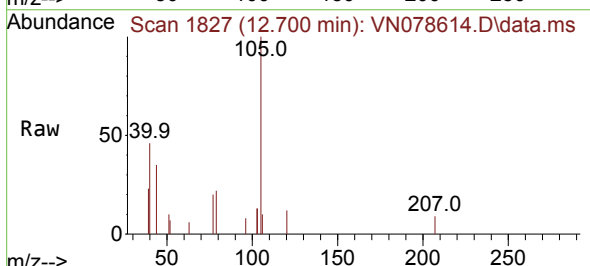
Acq: 21 Jul 2023 15:23

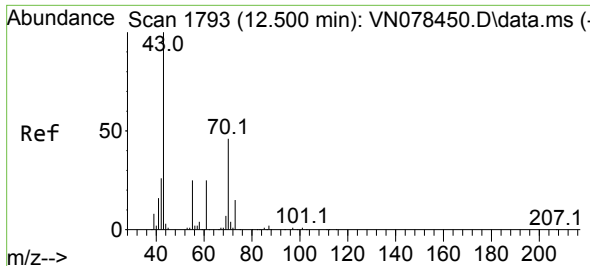
Tgt Ion:105 Resp: 4057

Ion Ratio Lower Upper

105 100

120 16.1 13.1 39.1

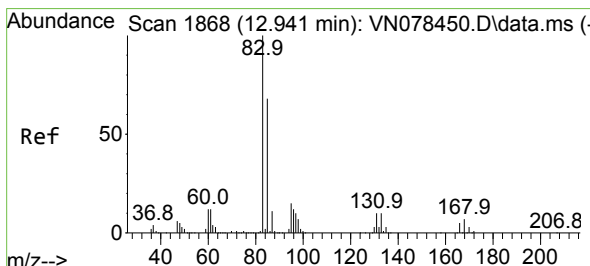
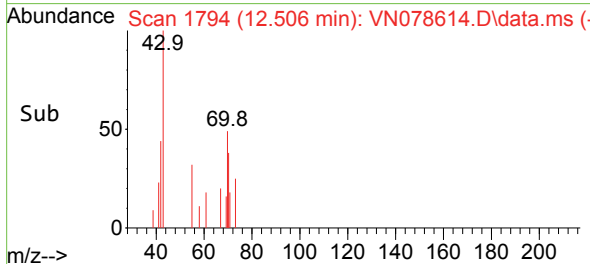
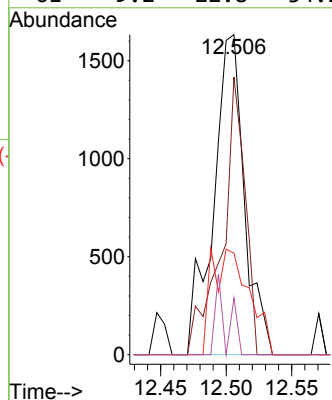
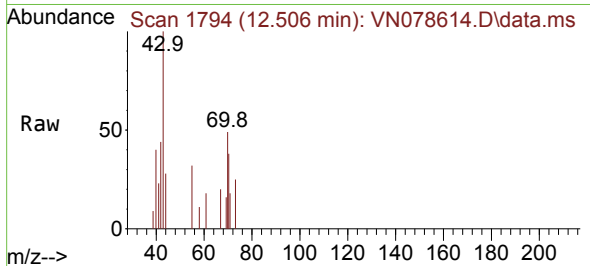




#74
N-amy1 acetate
Concen: 0.405 ug/l
RT: 12.506 min Scan# 1794
Delta R.T. 0.006 min
Lab File: VN078614.D
Acq: 21 Jul 2023 15:23

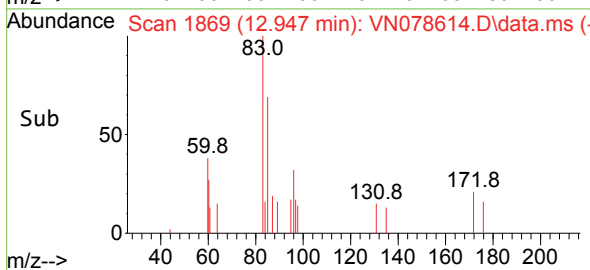
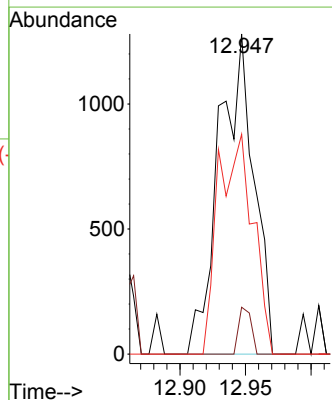
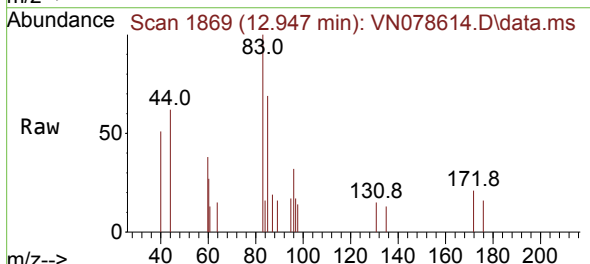
Instrument :
MSVOA_N
ClientSampleId :
IBLK

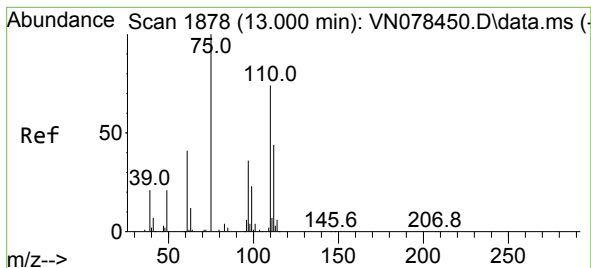
Tgt Ion: 43	Resp: 2687
Ion Ratio	Lower Upper
43 100	
70 64.3	43.4 65.2
55 39.7	21.4 32.0#
61 9.2	22.8 34.2#



#75
1,1,2,2-Tetrachloroethane
Concen: Below Cal
RT: 12.947 min Scan# 1869
Delta R.T. 0.006 min
Lab File: VN078614.D
Acq: 21 Jul 2023 15:23

Tgt Ion: 83	Resp: 2374
Ion Ratio	Lower Upper
83 100	
131 5.2	5.0 15.0
85 68.4	31.9 95.7





#76

1,2,3-Trichloropropane

Concen: 29.691 ug/l

RT: 12.853 min Scan# 1853

Delta R.T. -0.147 min

Lab File: VN078614.D

Acq: 21 Jul 2023 15:23

Instrument :

MSVOA_N

ClientSampleId :

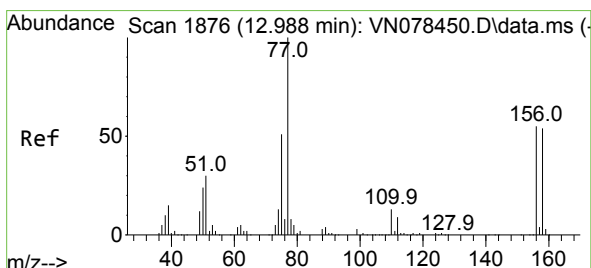
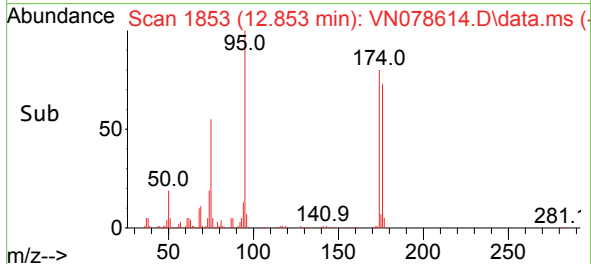
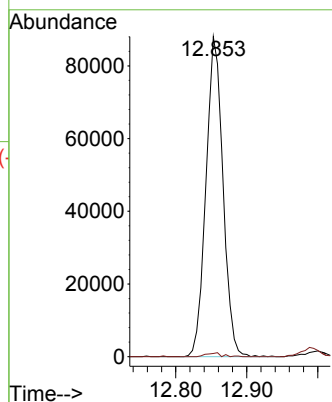
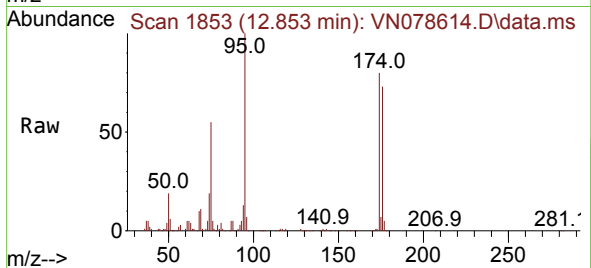
IBLK

Tgt Ion: 75 Resp: 146883

Ion Ratio Lower Upper

75 100

77 1.1 84.5 253.5#



#77

Bromobenzene

Concen: Below Cal

RT: 12.988 min Scan# 1876

Delta R.T. 0.000 min

Lab File: VN078614.D

Acq: 21 Jul 2023 15:23

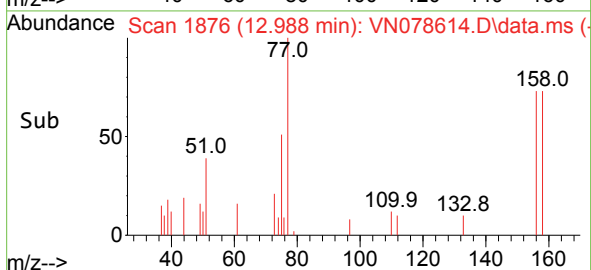
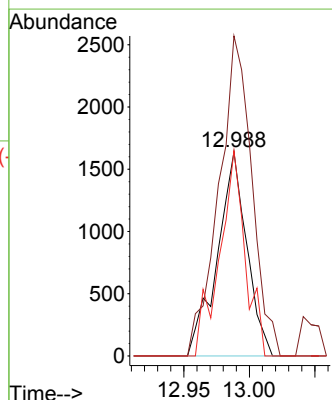
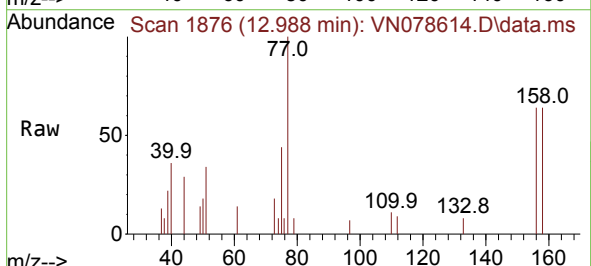
Tgt Ion: 156 Resp: 2565

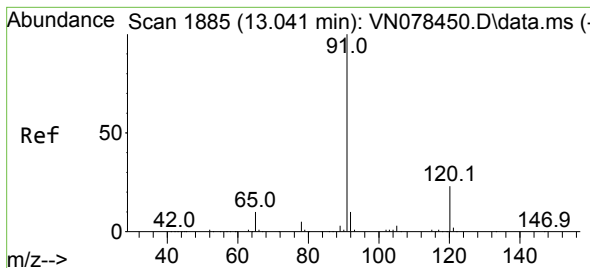
Ion Ratio Lower Upper

156 100

77 175.2 107.7 323.3

158 87.9 48.4 145.3





#78

n-propylbenzene

Concen: 0.318 ug/l

RT: 13.035 min Scan# 1884

Delta R.T. -0.006 min

Lab File: VN078614.D

Acq: 21 Jul 2023 15:23

Instrument :

MSVOA_N

ClientSampleId :

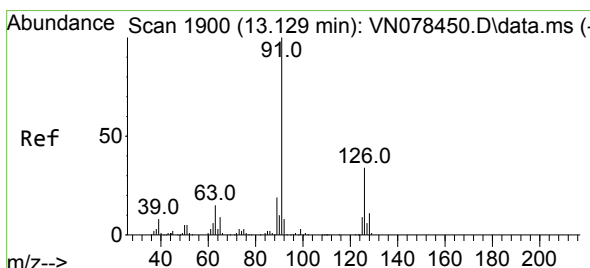
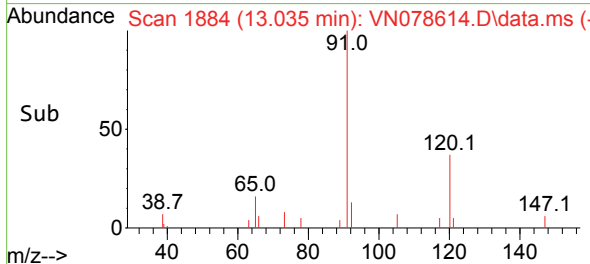
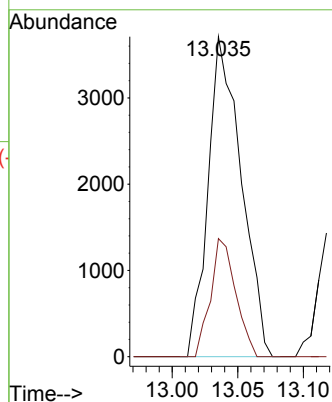
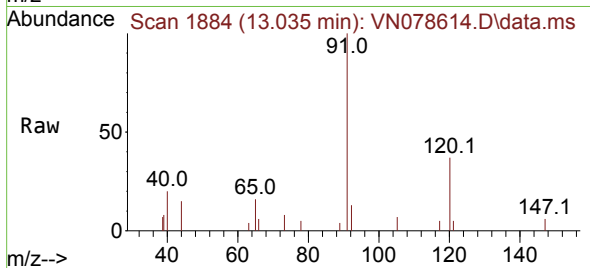
IBLK

Tgt Ion: 91 Resp: 6539

Ion Ratio Lower Upper

91 100

120 27.9 11.5 34.4



#79

2-Chlorotoluene

Concen: 0.384 ug/l

RT: 13.135 min Scan# 1901

Delta R.T. 0.006 min

Lab File: VN078614.D

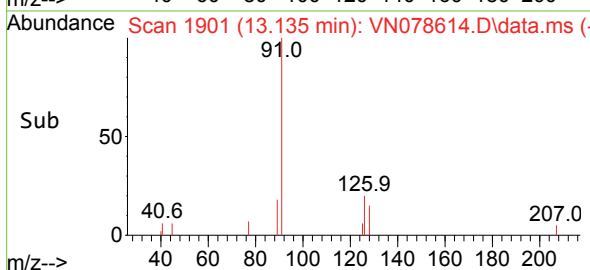
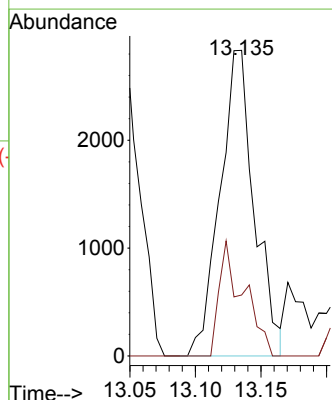
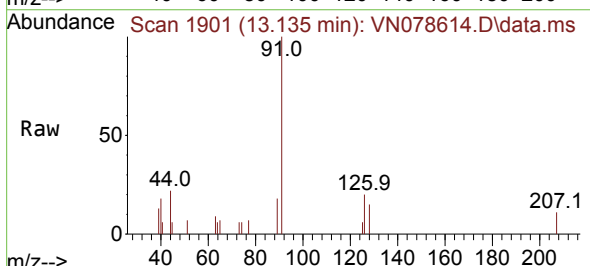
Acq: 21 Jul 2023 15:23

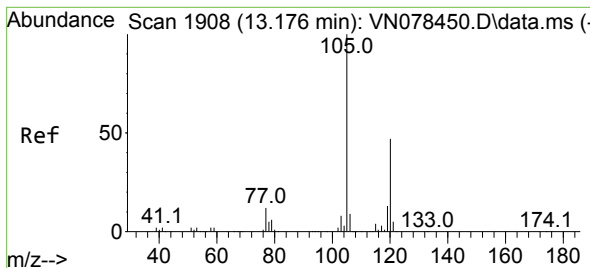
Tgt Ion: 91 Resp: 5173

Ion Ratio Lower Upper

91 100

126 26.8 16.3 48.8





#80

1,3,5-Trimethylbenzene

Concen: 0.310 ug/l

RT: 13.182 min Scan# 1908

Delta R.T. 0.006 min

Lab File: VN078614.D

Acq: 21 Jul 2023 15:23

Instrument :

MSVOA_N

ClientSampleId :

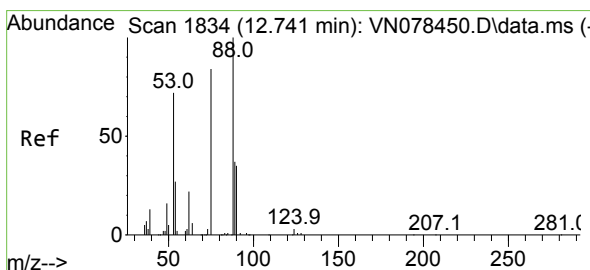
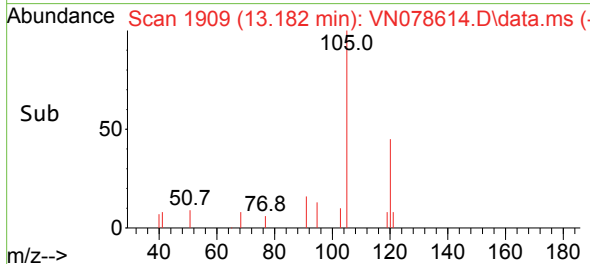
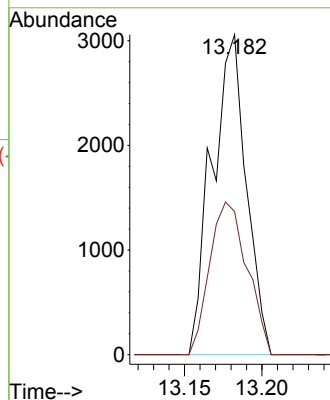
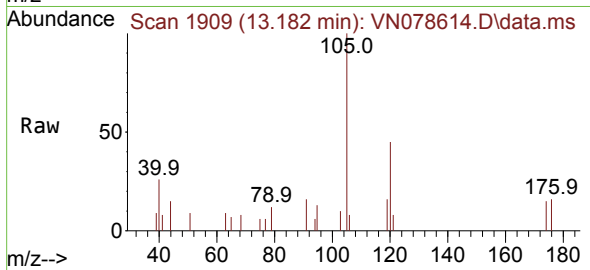
IBLK

Tgt Ion:105 Resp: 4713

Ion Ratio Lower Upper

105 100

120 52.1 24.1 72.3



#81

trans-1,4-Dichloro-2-butene

Concen: 78.023 ug/l

RT: 12.853 min Scan# 1853

Delta R.T. 0.112 min

Lab File: VN078614.D

Acq: 21 Jul 2023 15:23

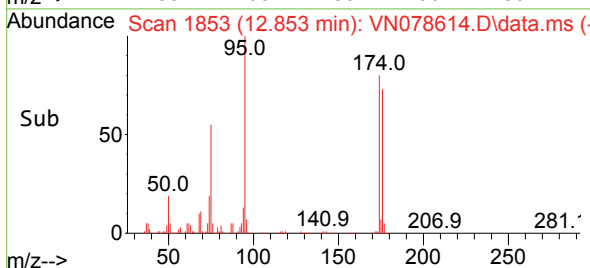
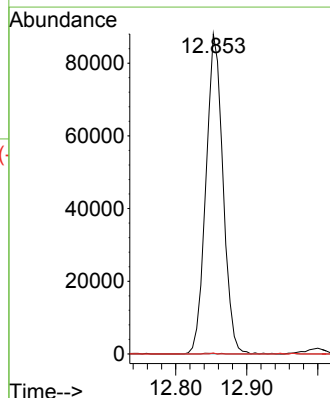
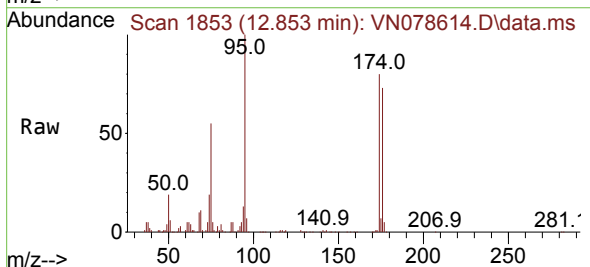
Tgt Ion: 75 Resp: 146883

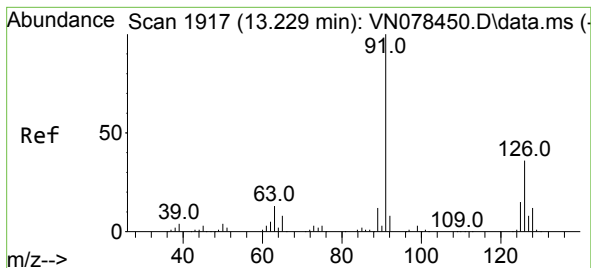
Ion Ratio Lower Upper

75 100

53 0.2 67.4 101.2#

89 0.1 38.8 58.2#

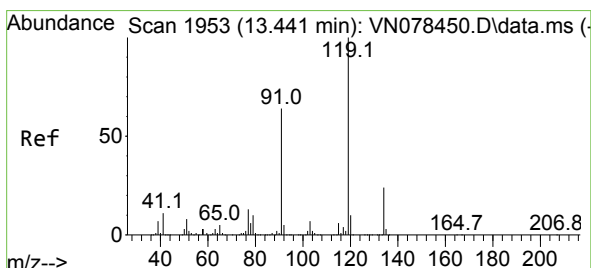
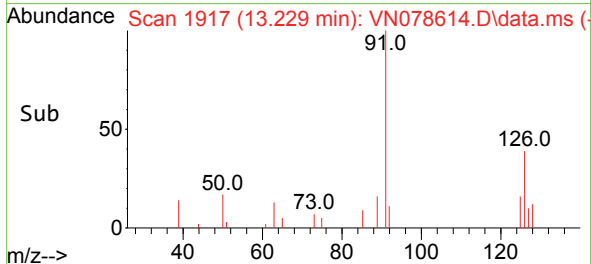
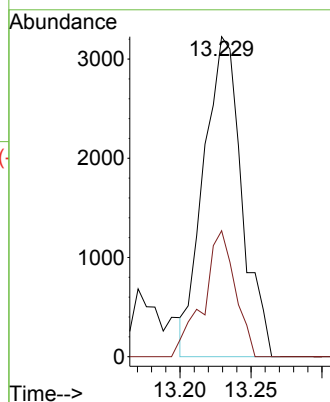
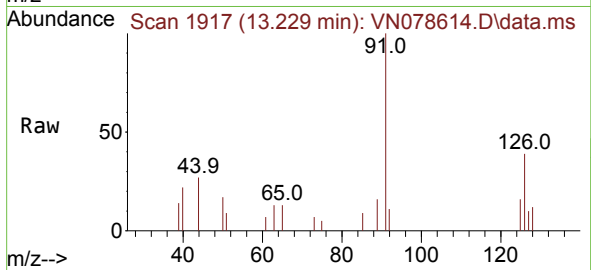




#82
4-Chlorotoluene
Concen: 0.478 ug/l
RT: 13.229 min Scan# 1917
Delta R.T. 0.000 min
Lab File: VN078614.D
Acq: 21 Jul 2023 15:23

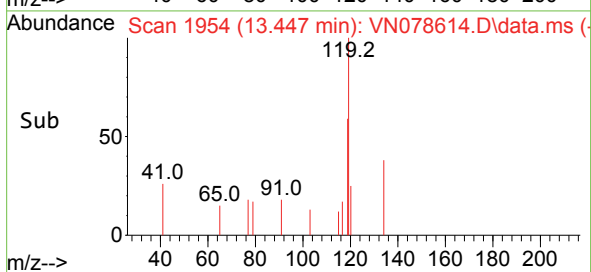
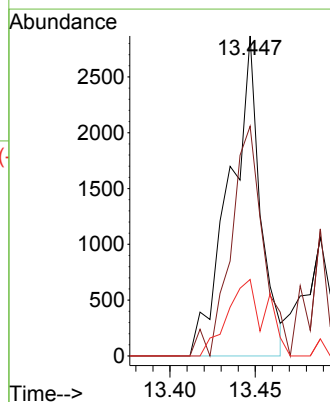
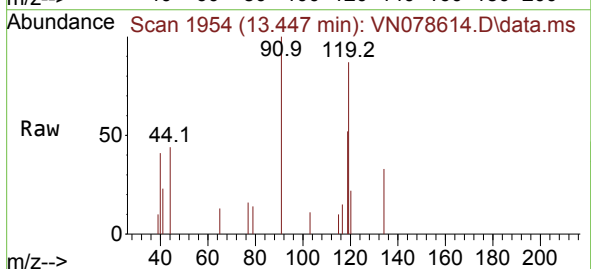
Instrument :
MSVOA_N
ClientSampleId :
IBLK

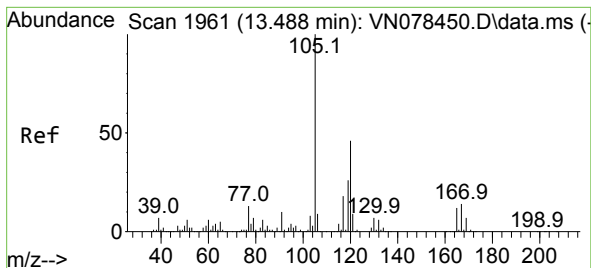
Tgt Ion: 91 Resp: 6008
Ion Ratio Lower Upper
91 100
126 32.9 16.7 50.0



#83
tert-Butylbenzene
Concen: 0.280 ug/l
RT: 13.447 min Scan# 1954
Delta R.T. 0.006 min
Lab File: VN078614.D
Acq: 21 Jul 2023 15:23

Tgt Ion: 119 Resp: 3616
Ion Ratio Lower Upper
119 100
91 74.9 33.9 101.7
134 29.6 13.2 39.6





#84

1,2,4-Trimethylbenzene

Concen: 0.401 ug/l

RT: 13.494 min Scan# 1962

Delta R.T. 0.006 min

Lab File: VN078614.D

Acq: 21 Jul 2023 15:23

Instrument :

MSVOA_N

ClientSampleId :

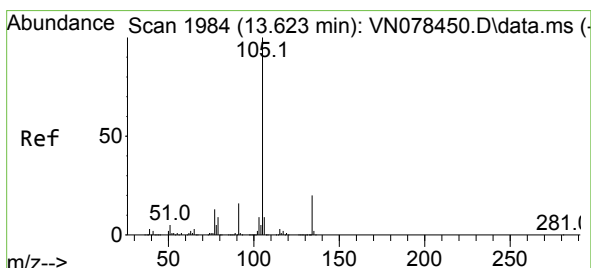
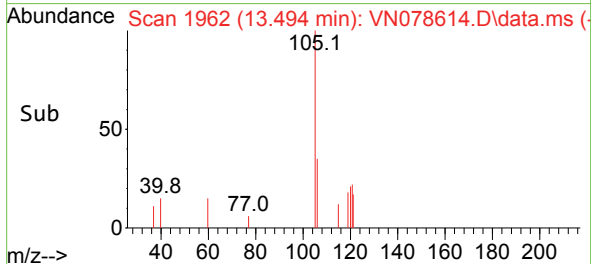
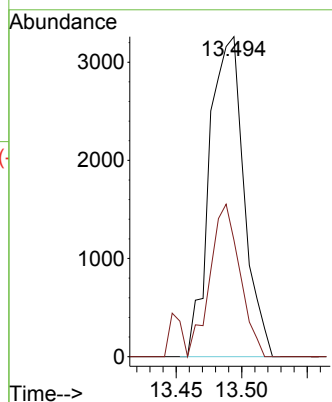
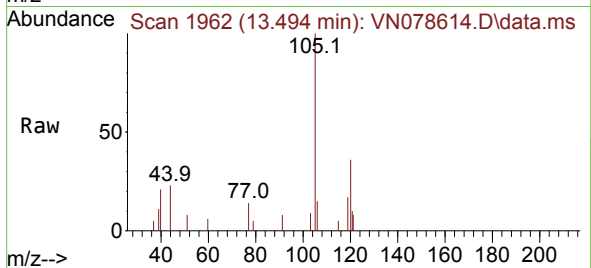
IBLK

Tgt Ion:105 Resp: 5923

Ion Ratio Lower Upper

105 100

120 41.6 22.0 66.0



#85

sec-Butylbenzene

Concen: 0.446 ug/l

RT: 13.618 min Scan# 1983

Delta R.T. -0.005 min

Lab File: VN078614.D

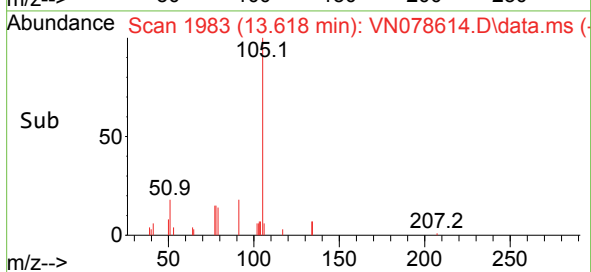
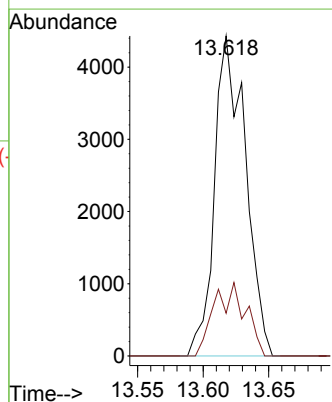
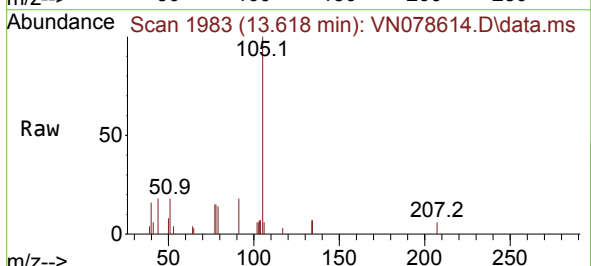
Acq: 21 Jul 2023 15:23

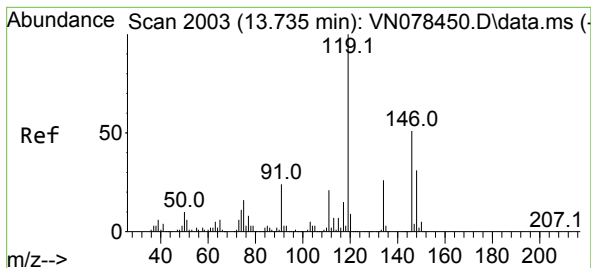
Tgt Ion:105 Resp: 7268

Ion Ratio Lower Upper

105 100

134 11.3 9.8 29.3





#86

p-Isopropyltoluene

Concen: 0.490 ug/l

RT: 13.729 min Scan# 2002

Delta R.T. -0.006 min

Lab File: VN078614.D

Acq: 21 Jul 2023 15:23

Instrument :

MSVOA_N

ClientSampleId :

IBLK

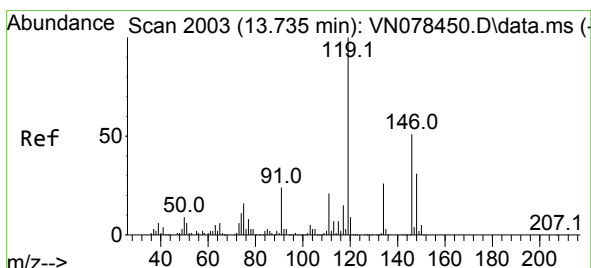
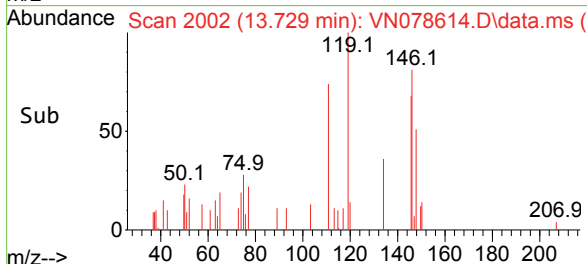
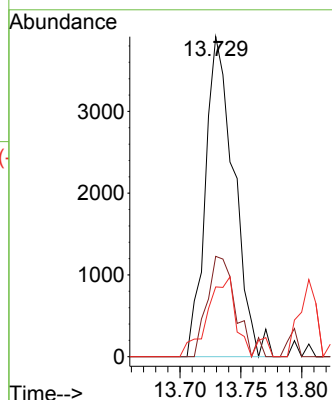
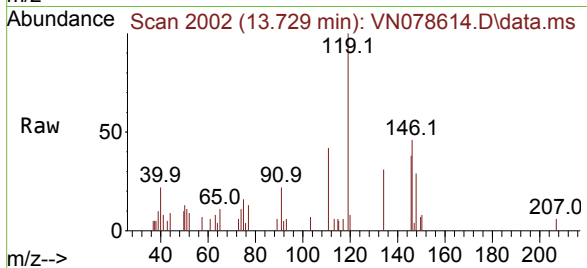
Tgt Ion:119 Resp: 6415

Ion Ratio Lower Upper

119 100

134 31.1 12.6 37.8

91 24.3 12.4 37.2



#87

1,3-Dichlorobenzene

Concen: 0.760 ug/l

RT: 13.729 min Scan# 2002

Delta R.T. -0.006 min

Lab File: VN078614.D

Acq: 21 Jul 2023 15:23

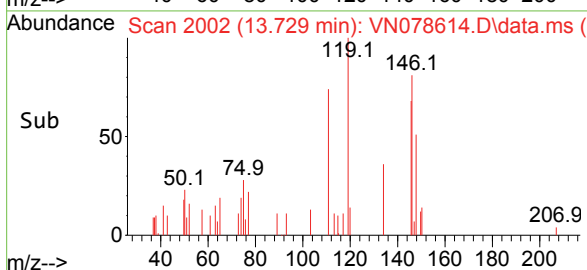
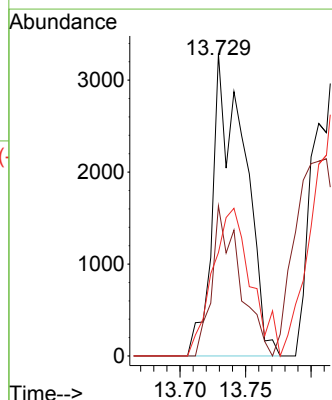
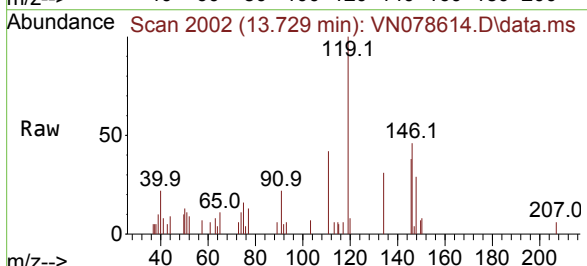
Tgt Ion:146 Resp: 5614

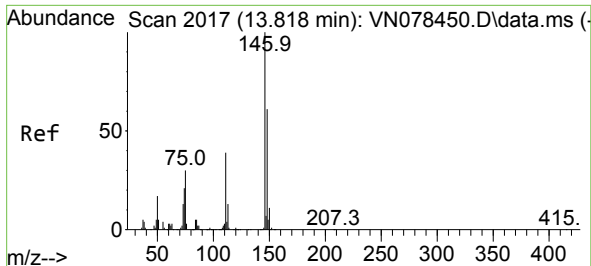
Ion Ratio Lower Upper

146 100

111 42.8 22.1 66.3

148 58.1 32.0 96.0

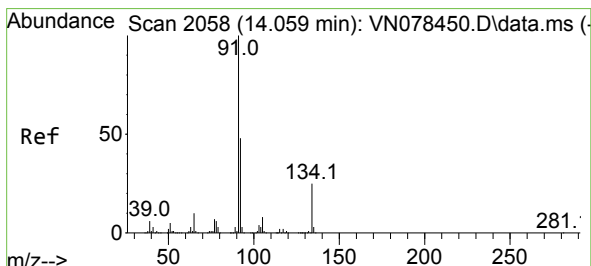
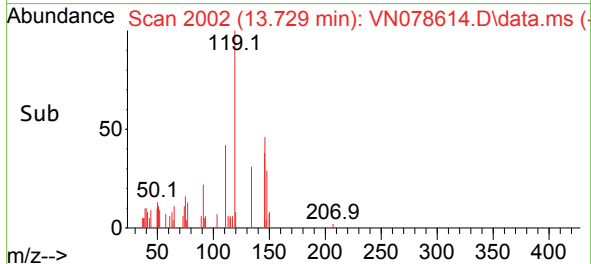
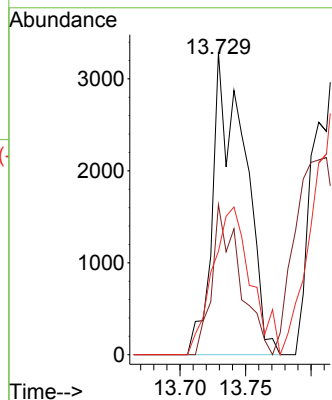
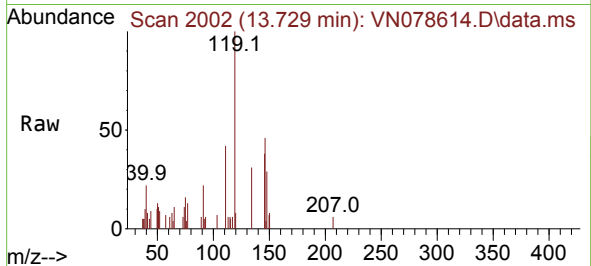




#88
1,4-Dichlorobenzene
Concen: 0.755 ug/l
RT: 13.729 min Scan# 2017
Delta R.T. -0.089 min
Lab File: VN078614.D
Acq: 21 Jul 2023 15:23

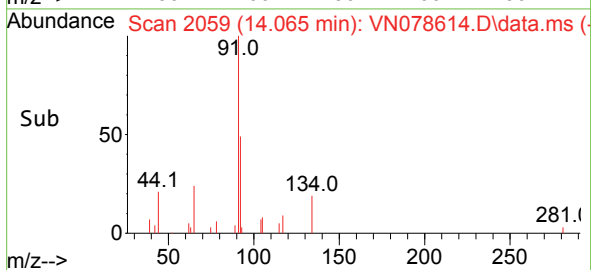
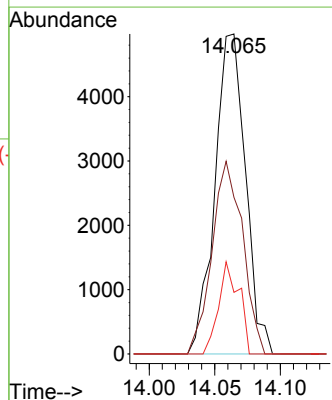
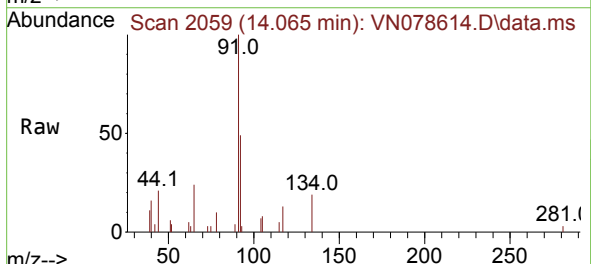
Instrument :
MSVOA_N
ClientSampleId :
IBLK

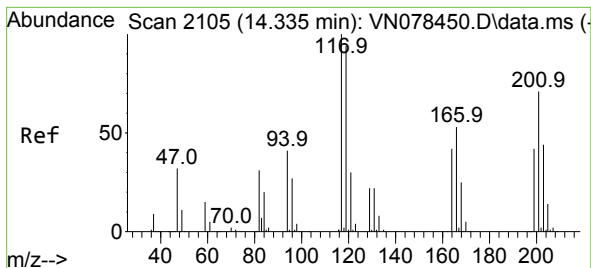
Tgt Ion:146 Resp: 5614
Ion Ratio Lower Upper
146 100
111 42.8 20.6 61.8
148 58.1 31.6 94.8



#89
n-Butylbenzene
Concen: 0.864 ug/l
RT: 14.065 min Scan# 2059
Delta R.T. 0.006 min
Lab File: VN078614.D
Acq: 21 Jul 2023 15:23

Tgt Ion: 91 Resp: 8090
Ion Ratio Lower Upper
91 100
92 60.2 26.4 79.0
134 19.1 12.6 37.6





#90

Hexachloroethane

Concen: Below Cal

RT: 14.341 min Scan# 2106

Delta R.T. 0.006 min

Lab File: VN078614.D

Acq: 21 Jul 2023 15:23

Instrument :

MSVOA_N

ClientSampleId :

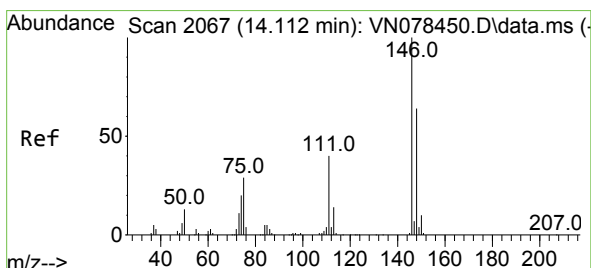
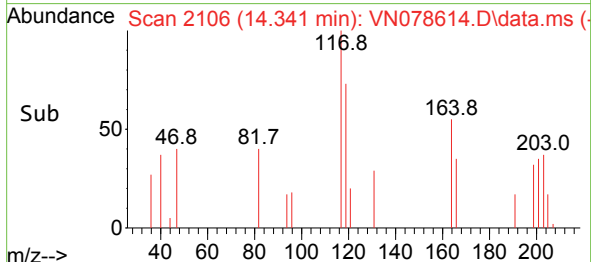
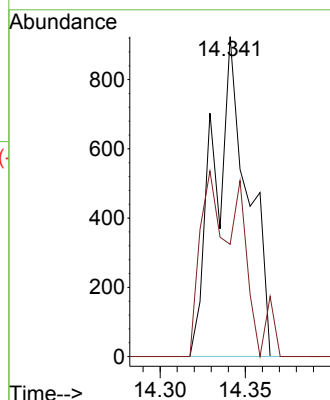
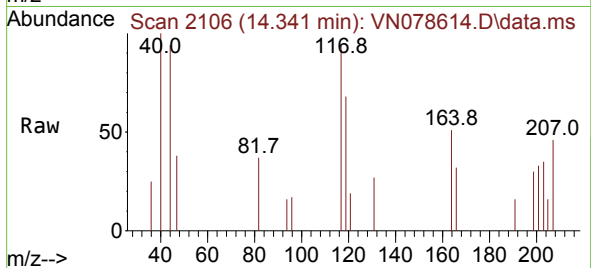
IBLK

Tgt Ion:117 Resp: 1272

Ion Ratio Lower Upper

117 100

201 67.5 29.3 88.0



#91

1,2-Dichlorobenzene

Concen: 0.714 ug/l

RT: 14.112 min Scan# 2067

Delta R.T. -0.000 min

Lab File: VN078614.D

Acq: 21 Jul 2023 15:23

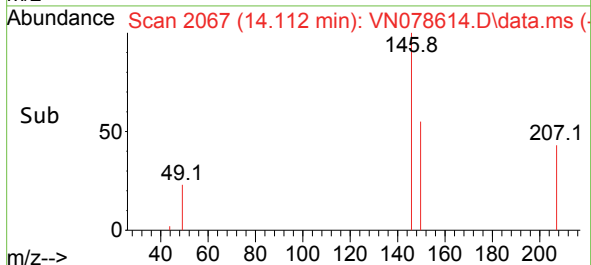
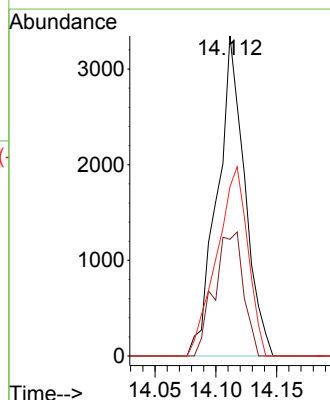
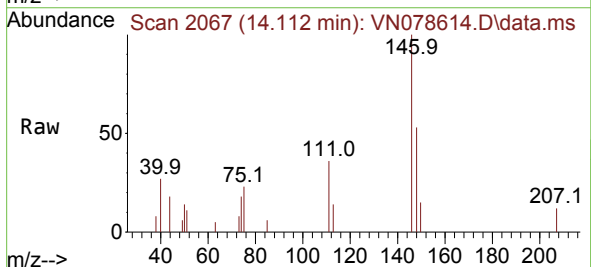
Tgt Ion:146 Resp: 5247

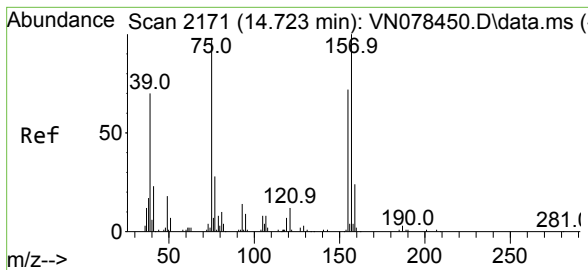
Ion Ratio Lower Upper

146 100

111 41.1 22.0 66.0

148 67.0 31.8 95.3

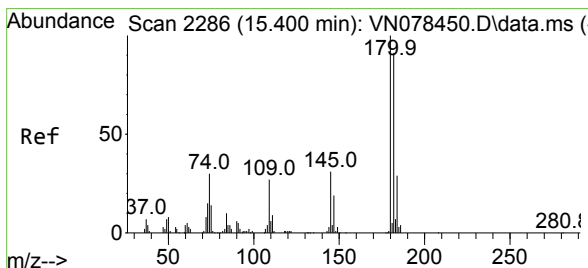
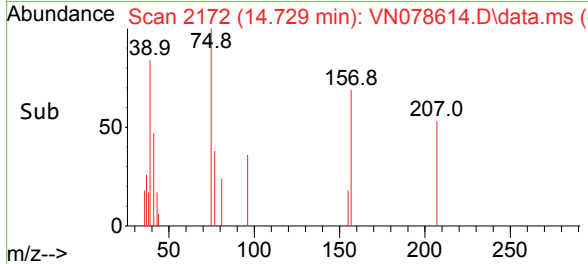
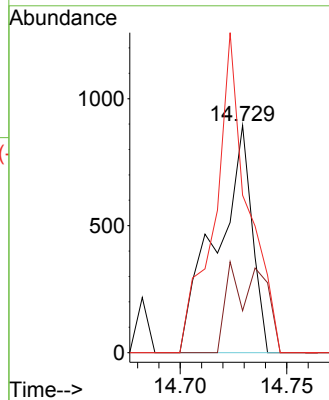
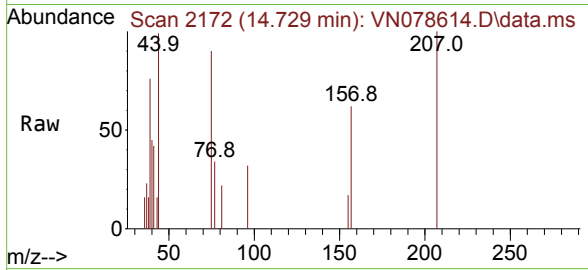




#92
 1,2-Dibromo-3-Chloropropane
 Concen: Below Cal
 RT: 14.729 min Scan# 2171
 Delta R.T. 0.006 min
 Lab File: VN078614.D
 Acq: 21 Jul 2023 15:23

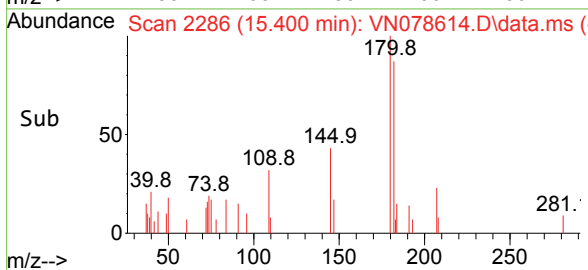
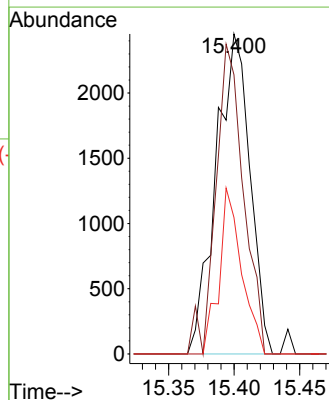
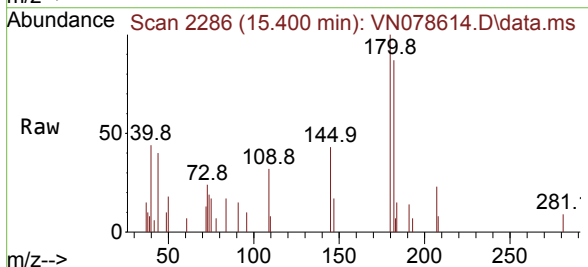
Instrument :
 MSVOA_N
 ClientSampleId :
 IBLK

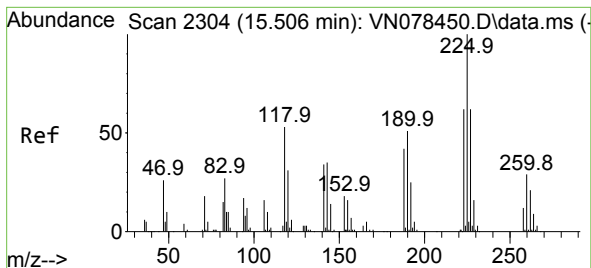
Tgt Ion: 75 Resp: 1033
 Ion Ratio Lower Upper
 75 100
 155 38.6 39.1 117.2#
 157 132.1 50.3 150.9



#93
 1,2,4-Trichlorobenzene
 Concen: 1.882 ug/l
 RT: 15.400 min Scan# 2286
 Delta R.T. -0.000 min
 Lab File: VN078614.D
 Acq: 21 Jul 2023 15:23

Tgt Ion: 180 Resp: 4412
 Ion Ratio Lower Upper
 180 100
 182 79.2 46.1 138.2
 145 34.4 16.6 49.8





#94

Hexachlorobutadiene

Concen: Below Cal

RT: 15.506 min Scan# 21

Delta R.T. -0.000 min

Lab File: VN078614.D

Acq: 21 Jul 2023 15:23

Instrument :

MSVOA_N

ClientSampleId :

IBLK

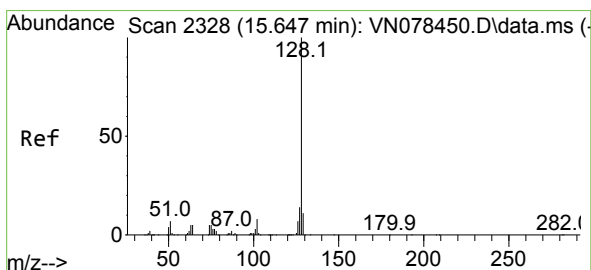
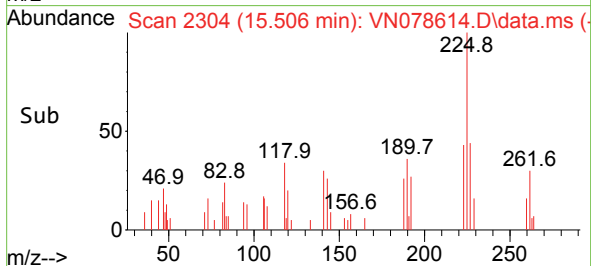
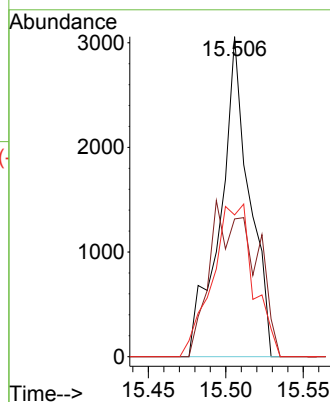
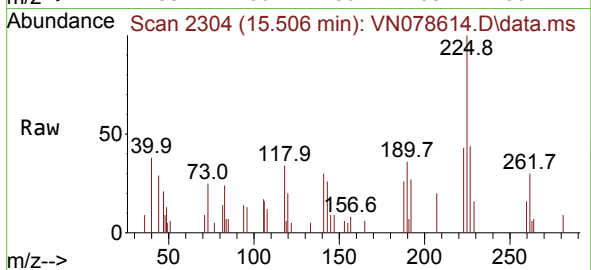
Tgt Ion:225 Resp: 3971

Ion Ratio Lower Upper

225 100

223 75.4 31.3 93.8

227 67.7 31.9 95.9



#95

Naphthalene

Concen: 2.006 ug/l

RT: 15.641 min Scan# 2327

Delta R.T. -0.006 min

Lab File: VN078614.D

Acq: 21 Jul 2023 15:23

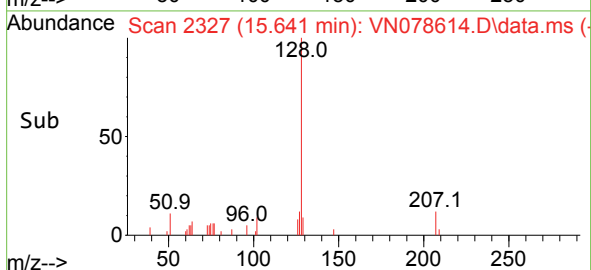
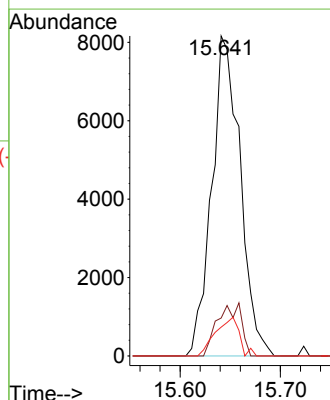
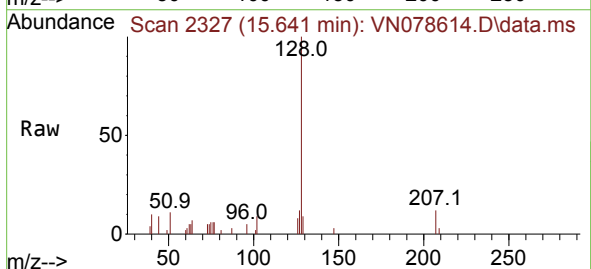
Tgt Ion:128 Resp: 16083

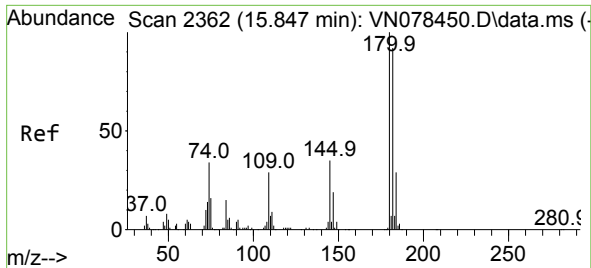
Ion Ratio Lower Upper

128 100

127 13.9 10.0 15.0

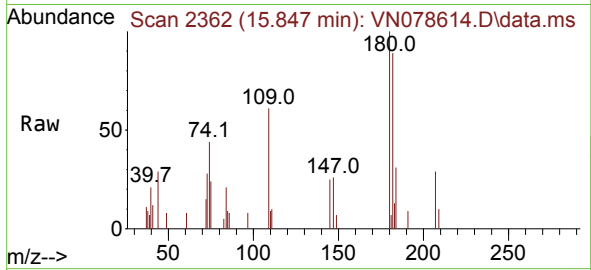
129 10.1 8.7 13.1





#96
 1,2,3-Trichlorobenzene
 Concen: 1.852 ug/l
 RT: 15.847 min Scan# 21
 Delta R.T. -0.000 min
 Lab File: VN078614.D
 Acq: 21 Jul 2023 15:23

Instrument :
 MSVOA_N
 ClientSampleId :
 IBLK



Tgt Ion:	180	Resp:	4994
Ion Ratio	Lower	Upper	
180	100		
182	109.7	46.2	138.6
145	46.8	17.5	52.6

