

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF050123\
 Data File : BF133175.D
 Acq On : 02 May 2023 01:25
 Operator : CG\JU
 Sample : 02562-01
 Misc :
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 OR-02-04282023

Quant Time: May 02 05:25:29 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF042123.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon May 01 15:02:31 2023
 Response via : Initial Calibration

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

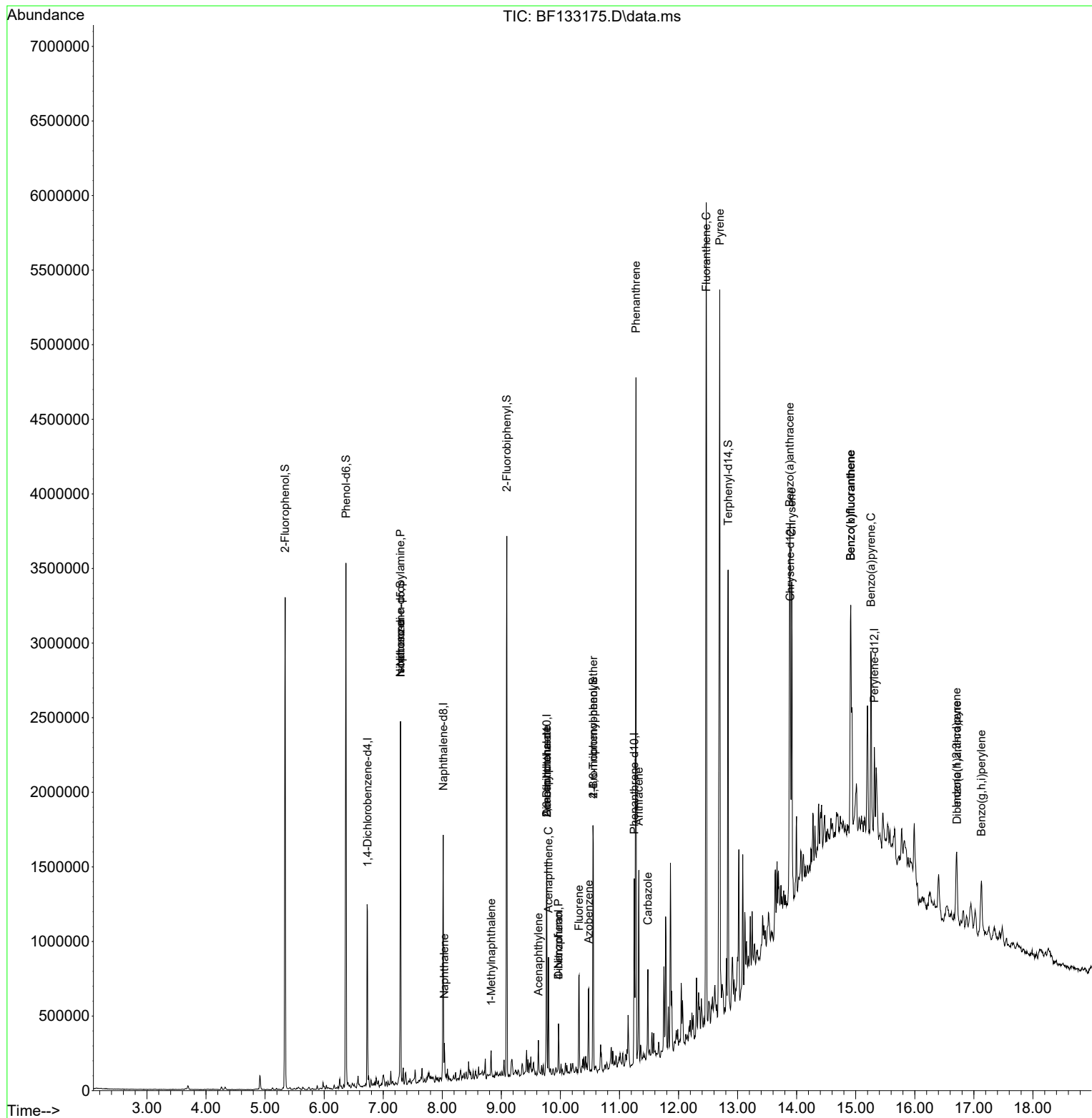
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.734	152	182727	20.000	ng	0.00
21) Naphthalene-d8	8.016	136	614713	20.000	ng	0.00
39) Acenaphthene-d10	9.769	164	271819	20.000	ng	0.00
64) Phenanthrene-d10	11.251	188	452628	20.000	ng	0.00
76) Chrysene-d12	13.892	240	300832	20.000	ng	0.00
86) Perylene-d12	15.315	264	255565	20.000	ng	0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.340	112	934424	77.249	ng	0.00
7) Phenol-d6	6.369	99	1126396	75.023	ng	0.00
23) Nitrobenzene-d5	7.292	82	667328	58.597	ng	-0.01
42) 2,4,6-Tribromophenol	10.557	330	195405	71.481	ng	0.00
45) 2-Fluorobiphenyl	9.092	172	1030755	63.441	ng	0.00
79) Terphenyl-d14	12.839	244	984932	56.466	ng	0.00
Target Compounds					Qvalue	
9) Benzaldehyde	6.257	77	886	Below Cal	#	1
19) n-Nitroso-di-n-propyla...	7.292	70	84296	9.019 ng	#	77
25) Isophorone	7.292	82	663774	30.698 ng	#	63
31) Naphthalene	8.034	128	91161	2.966 ng		99
38) 1-Methylnaphthalene	8.828	142	42782	2.177 ng		96
49) Acenaphthylene	9.628	152	74465	2.954 ng		97
50) Dimethylphthalate	9.769	163	54861	2.895 ng	#	1
51) 2,6-Dinitrotoluene	9.769	165	37345	8.754 ng	#	25
52) Acenaphthene	9.798	154	138817	8.222 ng		98
55) Dibenzofuran	9.969	168	95008	4.125 ng		98
56) 4-Nitrophenol	9.969	139	34020	8.660 ng	#	21
58) Fluorene	10.316	166	194187	11.509 ng		100
63) Azobenzene	10.480	77	84770	4.470 ng	#	1
67) 4-Bromophenyl-phenylether	10.557	248	12247	2.495 ng	#	1
71) Phenanthrene	11.280	178	1720163	70.709 ng		99
72) Anthracene	11.328	178	469572	18.861 ng		99
73) Carbazole	11.480	167	220782	9.959 ng		99
75) Fluoranthene	12.469	202	2442813	100.053 ng		97
78) Pyrene	12.698	202	2151243	83.420 ng		99
81) Benzo(a)anthracene	13.880	228	941876	45.529 ng		97
83) Chrysene	13.916	228	855013	41.341 ng		97
87) Indeno(1,2,3-cd)pyrene	16.710	276	328598	22.604 ng		92
88) Benzo(b)fluoranthene	14.916	252	1147510	70.578 ng	#	95
89) Benzo(k)fluoranthene	14.916	252	1147510	71.198 ng	#	95
90) Benzo(a)pyrene	15.257	252	608183	41.097 ng		96
91) Dibenzo(a,h)anthracene	16.715	278	82405	6.797 ng	#	79
92) Benzo(g,h,i)perylene	17.127	276	303105	25.322 ng		98

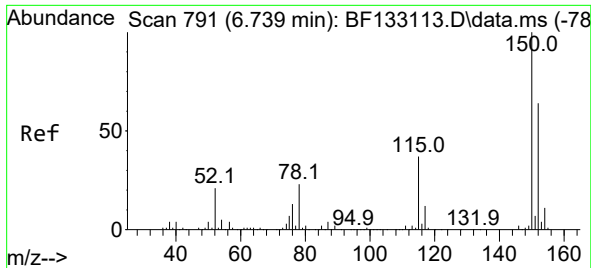
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF050123\
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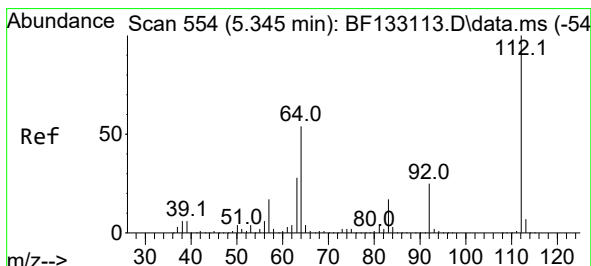
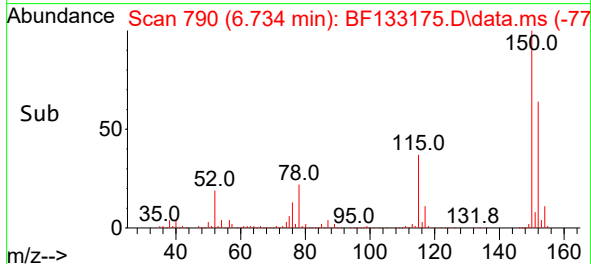
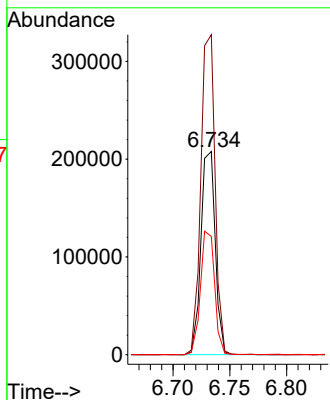
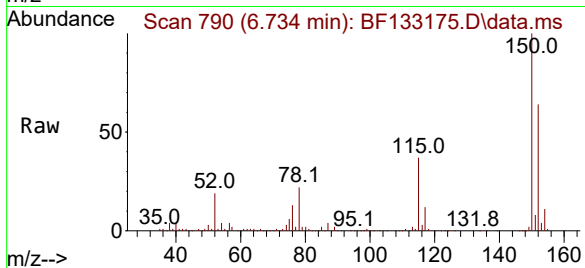




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.734 min Scan# 791
Delta R.T. 0.001 min
Lab File: BF133175.D
Acq: 02 May 2023 01:25

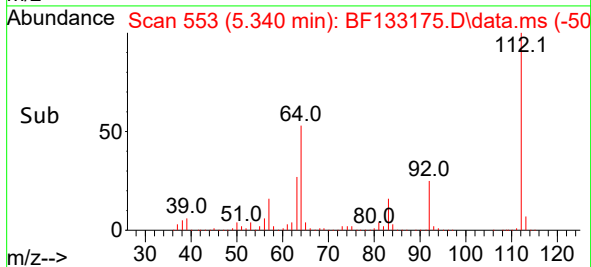
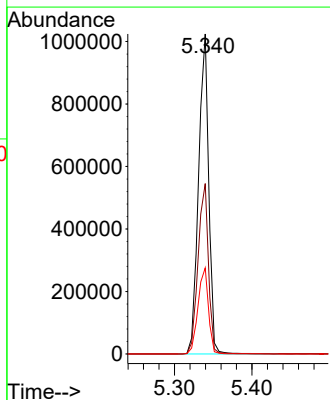
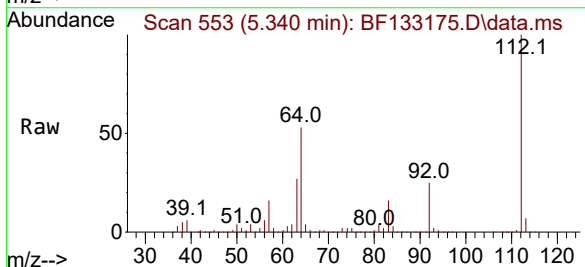
Instrument :
BNA_F
ClientSampleId :
OR-02-04282023

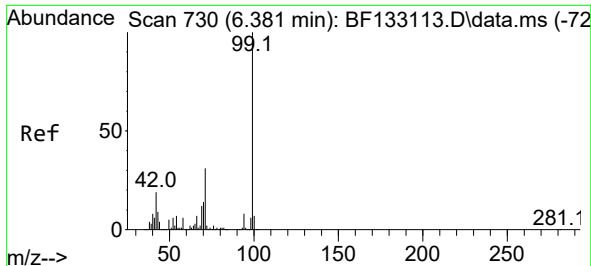
Tgt Ion:152 Resp: 182727
Ion Ratio Lower Upper
152 100
150 157.4 124.8 187.2
115 58.2 49.9 74.9



#5
2-Fluorophenol
Concen: 77.249 ng
RT: 5.340 min Scan# 553
Delta R.T. 0.000 min
Lab File: BF133175.D
Acq: 02 May 2023 01:25

Tgt Ion:112 Resp: 934424
Ion Ratio Lower Upper
112 100
64 53.3 46.8 70.2
63 26.9 23.8 35.8

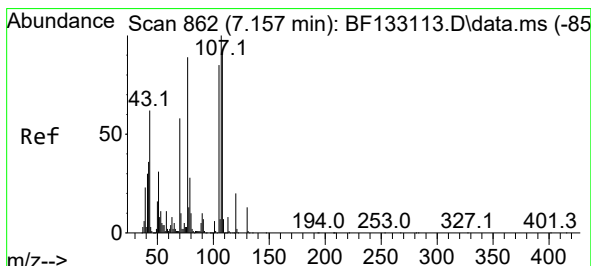
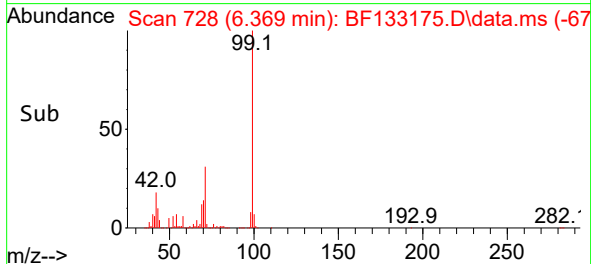
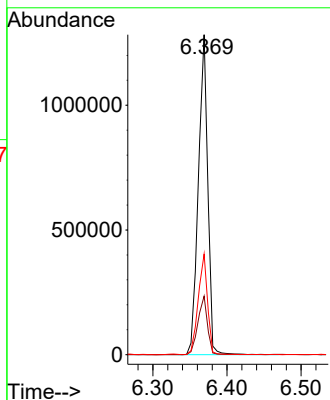
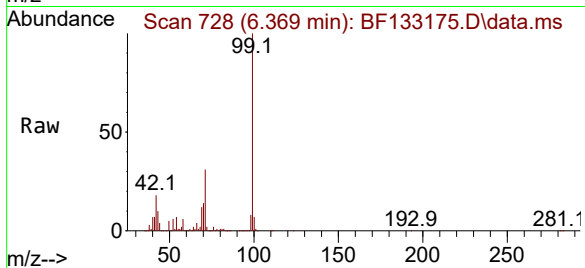




#7
Phenol-d6
Concen: 75.023 ng
RT: 6.369 min Scan# 71
Delta R.T. -0.006 min
Lab File: BF133175.D
Acq: 02 May 2023 01:25

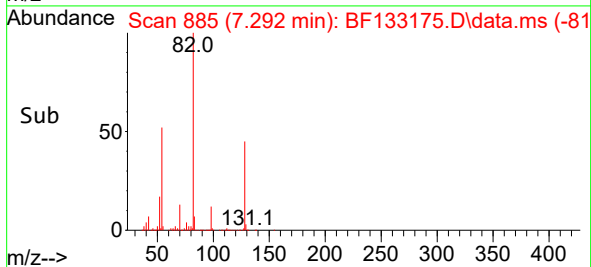
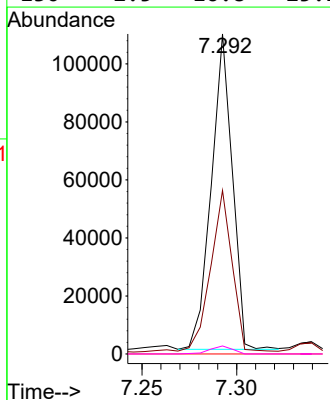
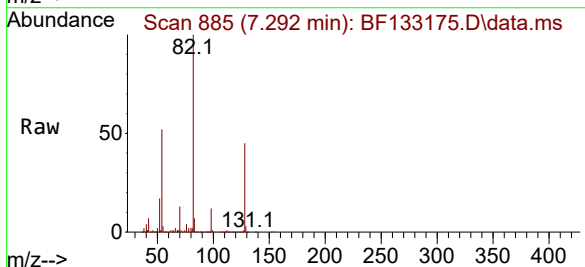
Instrument :
BNA_F
ClientSampleId :
OR-02-04282023

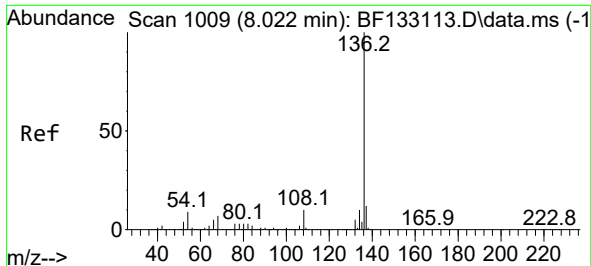
Tgt Ion: 99 Resp: 1126396
Ion Ratio Lower Upper
99 100
42 18.3 16.3 24.5
71 31.5 25.6 38.4



#19
n-Nitroso-di-n-propylamine
Concen: 9.019 ng
RT: 7.292 min Scan# 885
Delta R.T. 0.135 min
Lab File: BF133175.D
Acq: 02 May 2023 01:25

Tgt Ion: 70 Resp: 84296
Ion Ratio Lower Upper
70 100
42 51.1 51.8 77.6#
101 0.0 8.0 12.0#
130 2.5 16.8 25.2#





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.016 min Scan# 1

Delta R.T. 0.000 min

Lab File: BF133175.D

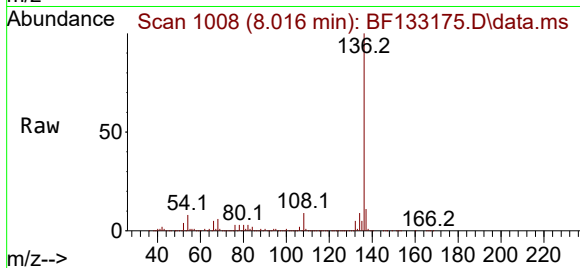
Acq: 02 May 2023 01:25

Instrument :

BNA_F

ClientSampleId :

OR-02-04282023



Tgt Ion:136 Resp: 614713

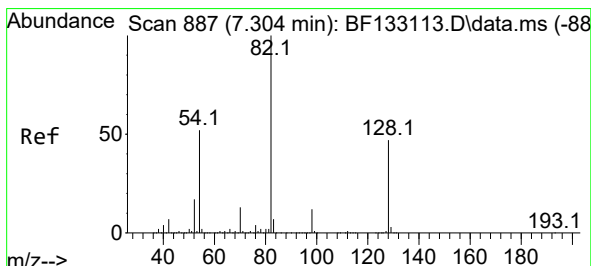
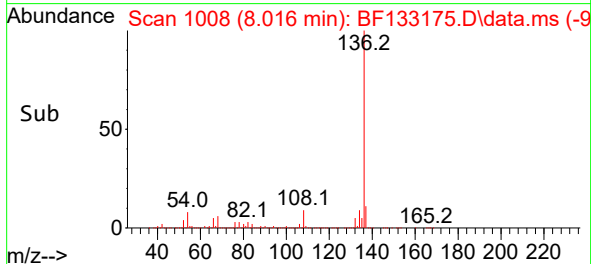
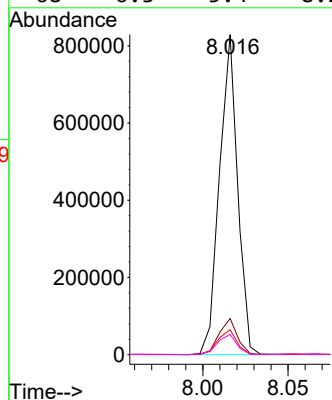
Ion Ratio Lower Upper

136 100

137 11.3 8.6 13.0

54 7.8 7.0 10.4

68 6.3 5.4 8.2



#23

Nitrobenzene-d5

Concen: 58.597 ng

RT: 7.292 min Scan# 885

Delta R.T. -0.012 min

Lab File: BF133175.D

Acq: 02 May 2023 01:25

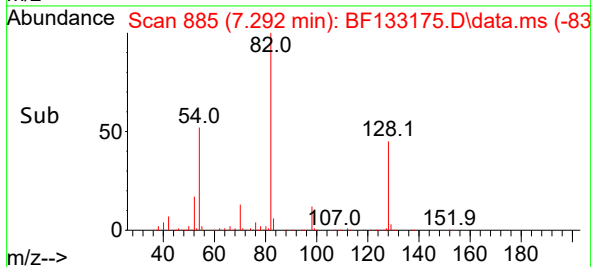
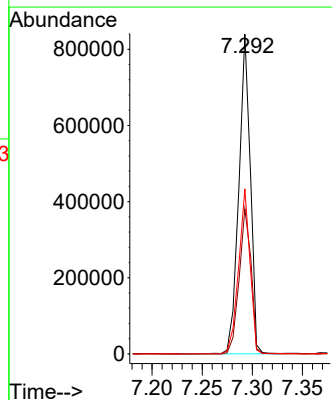
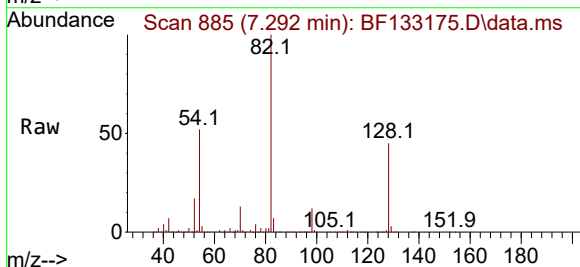
Tgt Ion: 82 Resp: 667328

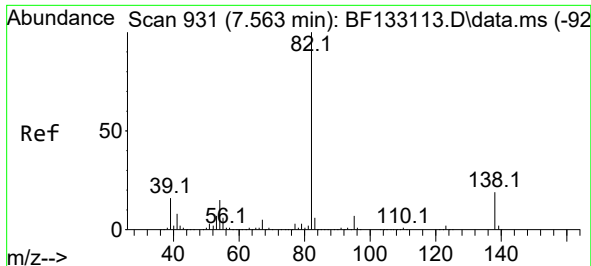
Ion Ratio Lower Upper

82 100

128 45.4 37.7 56.5

54 51.6 43.0 64.4

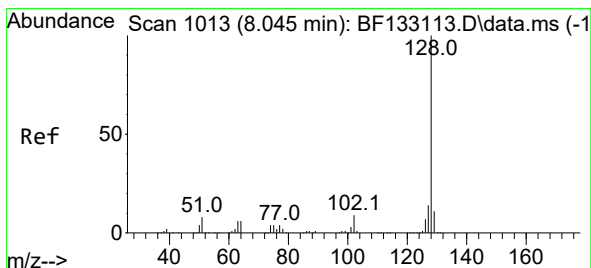
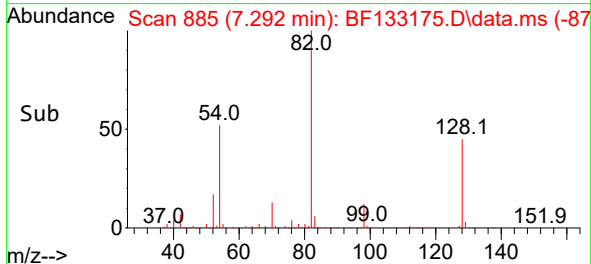
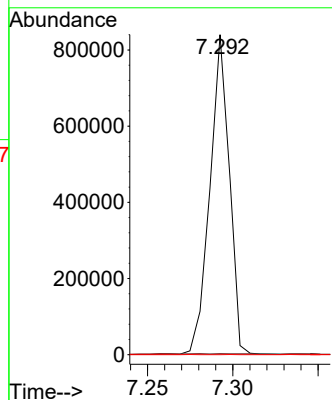
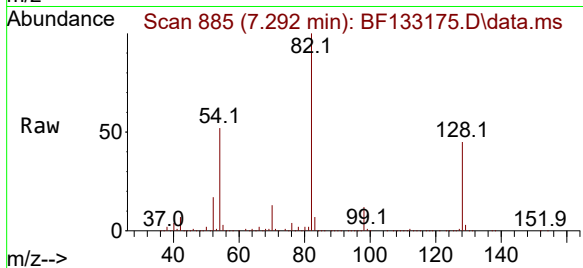




#25
Isophorone
Concen: 30.698 ng
RT: 7.292 min Scan# 81
Delta R.T. -0.264 min
Lab File: BF133175.D
Acq: 02 May 2023 01:25

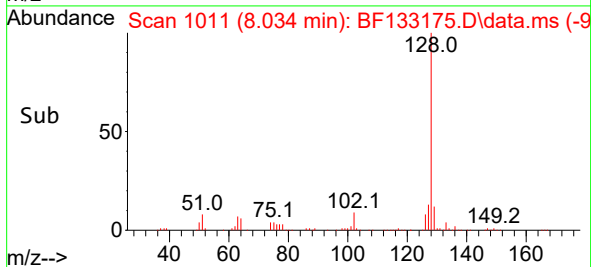
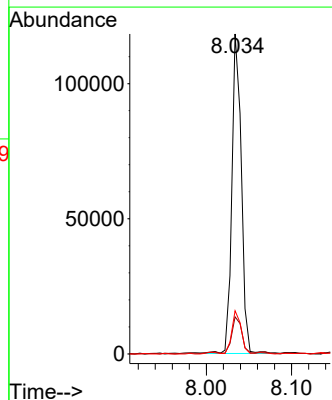
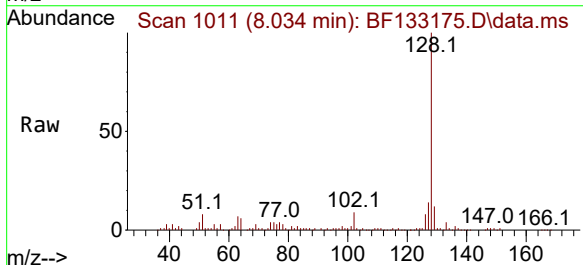
Instrument :
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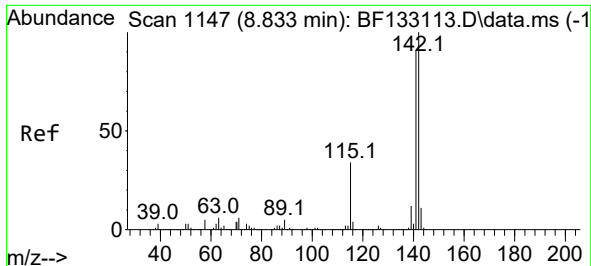
Tgt Ion: 82 Resp: 663774
Ion Ratio Lower Upper
82 100
95 0.3 5.4 8.0#
138 0.0 16.0 24.0#



#31
Naphthalene
Concen: 2.966 ng
RT: 8.034 min Scan# 1011
Delta R.T. -0.006 min
Lab File: BF133175.D
Acq: 02 May 2023 01:25

Tgt Ion: 128 Resp: 91161
Ion Ratio Lower Upper
128 100
129 11.6 8.8 13.2
127 13.5 10.7 16.1





#38

1-Methylnaphthalene

Concen: 2.177 ng

RT: 8.828 min Scan# 1146

Delta R.T. 0.000 min

Lab File: BF133175.D

Acq: 02 May 2023 01:25

Instrument :

BNA_F

ClientSampleId :

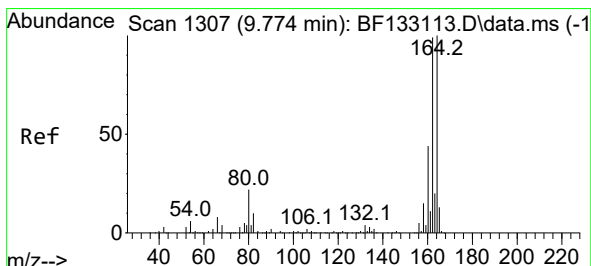
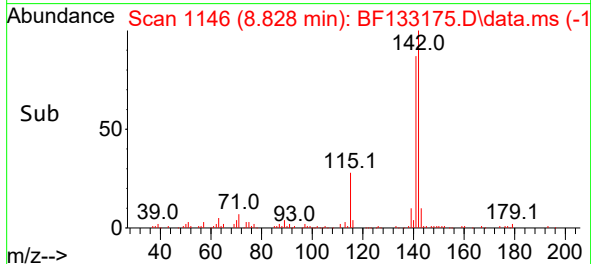
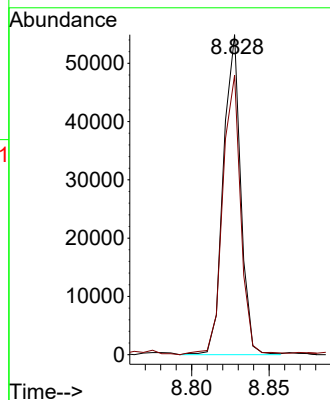
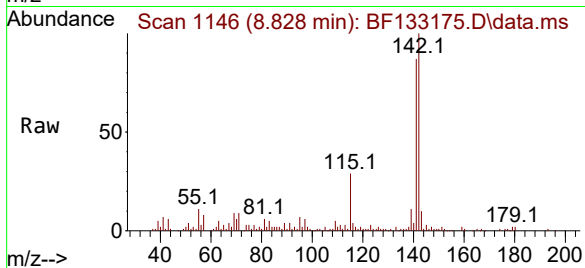
OR-02-04282023

Tgt Ion:142 Resp: 42782

Ion Ratio Lower Upper

142 100

141 87.4 73.1 109.7



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.769 min Scan# 1306

Delta R.T. 0.000 min

Lab File: BF133175.D

Acq: 02 May 2023 01:25

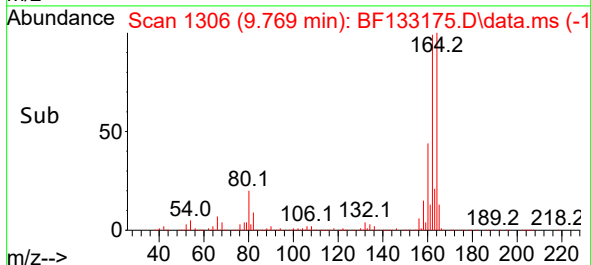
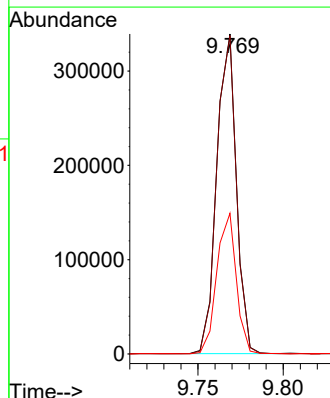
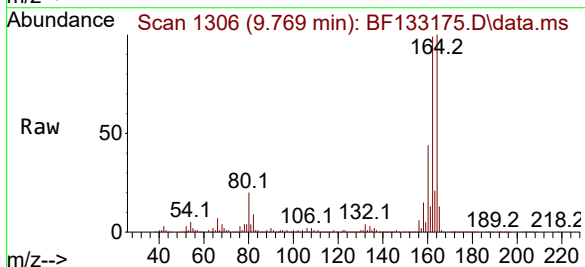
Tgt Ion:164 Resp: 271819

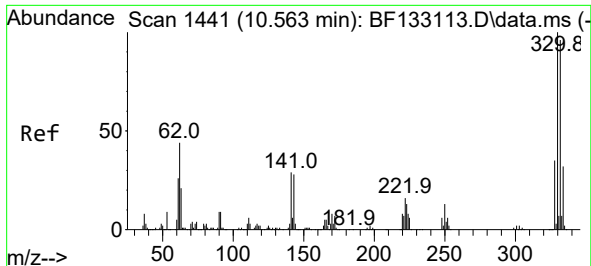
Ion Ratio Lower Upper

164 100

162 99.5 78.7 118.1

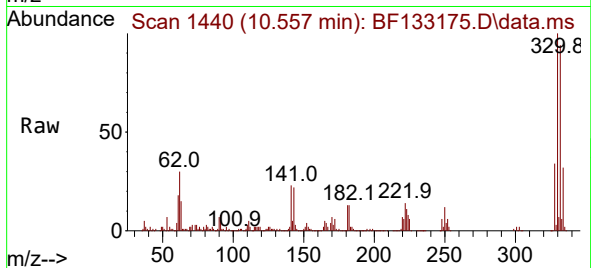
160 44.0 35.8 53.6



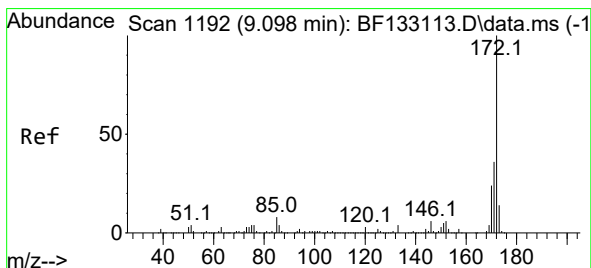
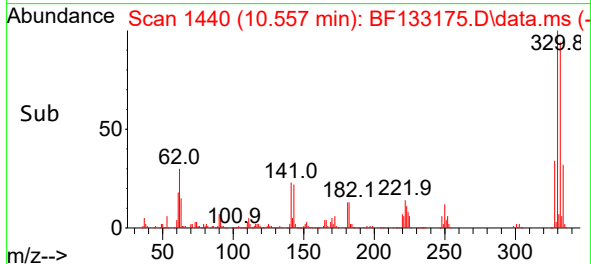
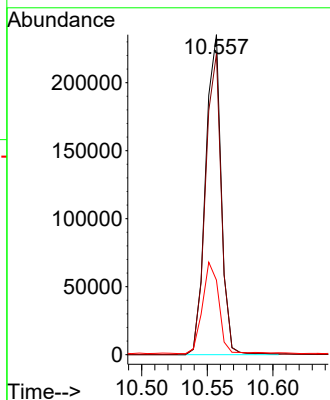


#42
2,4,6-Tribromophenol
Concen: 71.481 ng
RT: 10.557 min Scan# 1440
Delta R.T. -0.006 min
Lab File: BF133175.D
Acq: 02 May 2023 01:25

Instrument :
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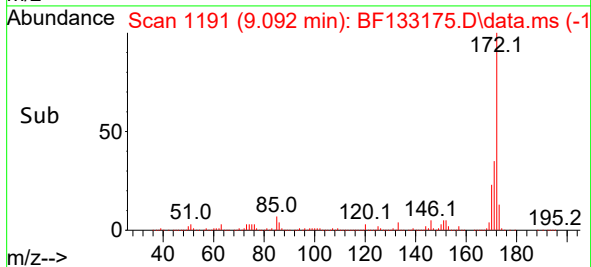
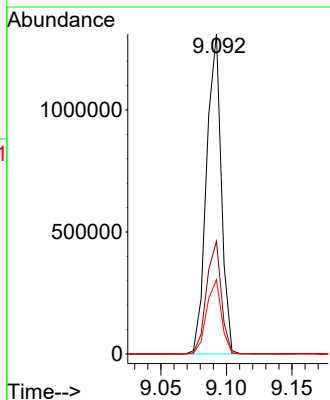
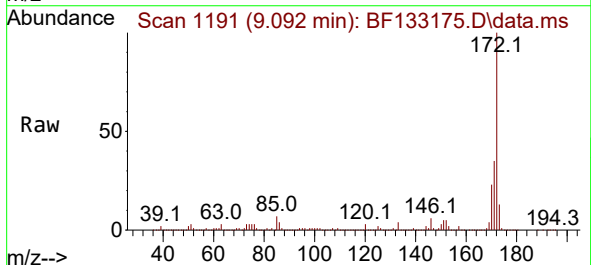


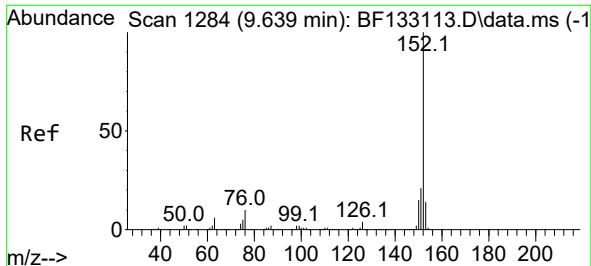
Tgt Ion: 330 Resp: 195405
Ion Ratio Lower Upper
330 100
332 95.6 77.1 115.7
141 29.6 25.8 38.8



#45
2-Fluorobiphenyl
Concen: 63.441 ng
RT: 9.092 min Scan# 1191
Delta R.T. -0.006 min
Lab File: BF133175.D
Acq: 02 May 2023 01:25

Tgt Ion: 172 Resp: 1030755
Ion Ratio Lower Upper
172 100
171 35.2 28.8 43.2
170 23.2 19.4 29.2





#49

Acenaphthylene

Concen: 2.954 ng

RT: 9.628 min Scan# 1

Delta R.T. -0.006 min

Lab File: BF133175.D

Acq: 02 May 2023 01:25

Instrument :

BNA_F

ClientSampleId :

OR-02-04282023

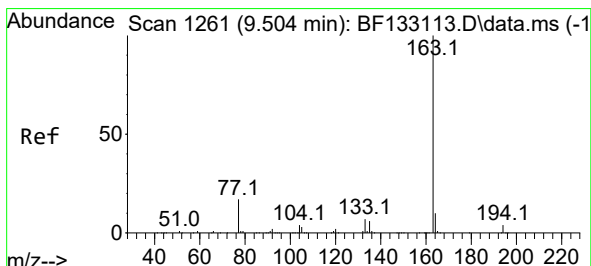
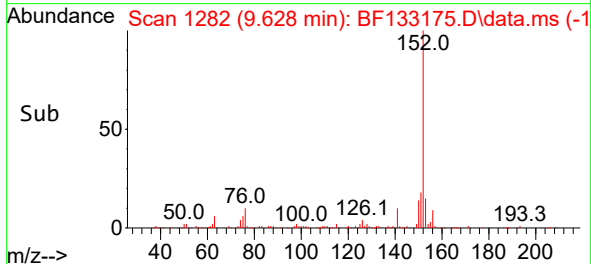
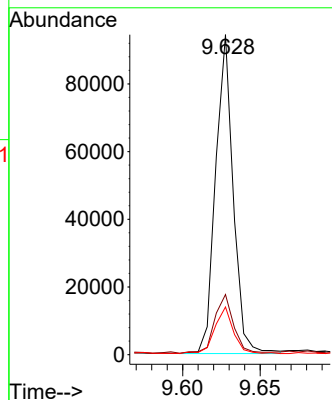
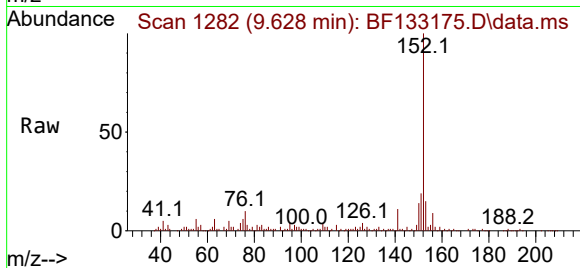
Tgt Ion:152 Resp: 74465

Ion Ratio Lower Upper

152 100

151 18.8 16.6 24.8

153 14.9 11.5 17.3



#50

Dimethylphthalate

Concen: 2.895 ng

RT: 9.769 min Scan# 1306

Delta R.T. 0.271 min

Lab File: BF133175.D

Acq: 02 May 2023 01:25

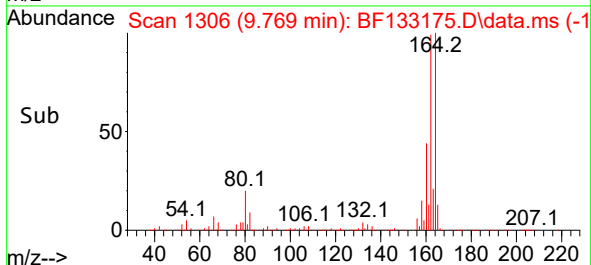
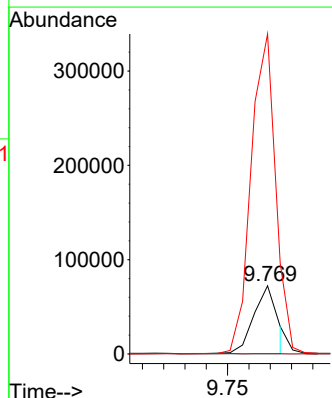
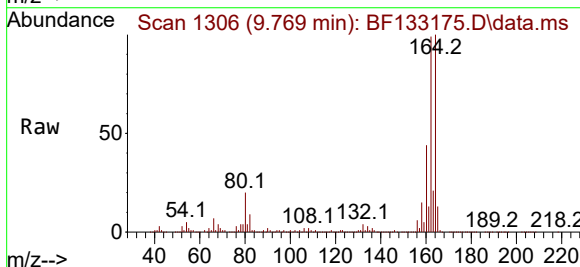
Tgt Ion:163 Resp: 54861

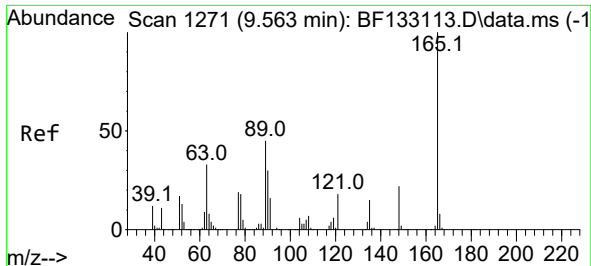
Ion Ratio Lower Upper

163 100

194 0.3 3.1 4.7#

164 469.4 8.5 12.7#

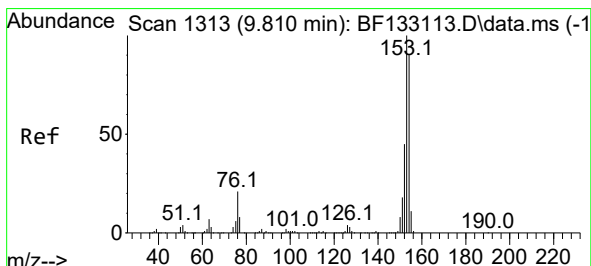
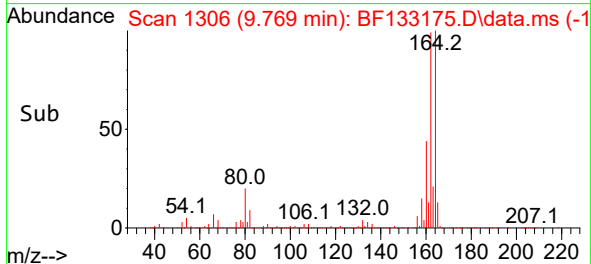
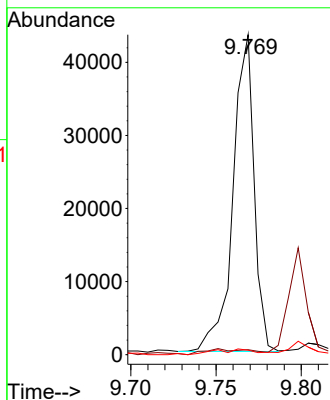
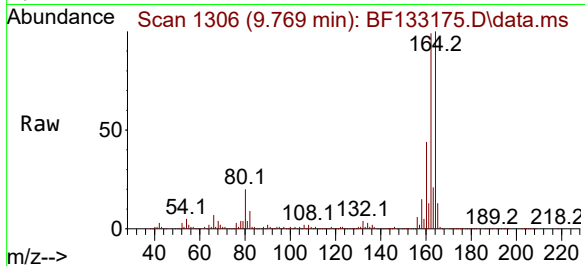




#51
2,6-Dinitrotoluene
Concen: 8.754 ng
RT: 9.769 min Scan# 1111
Delta R.T. 0.212 min
Lab File: BF133175.D
Acq: 02 May 2023 01:25

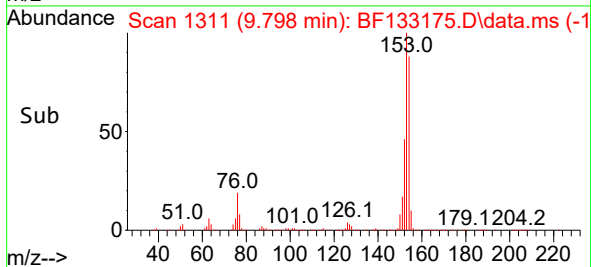
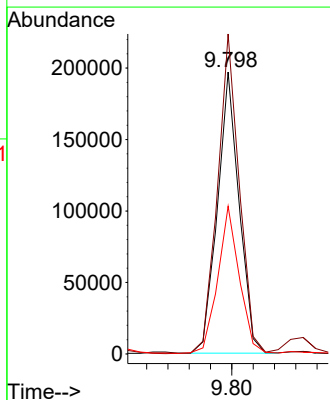
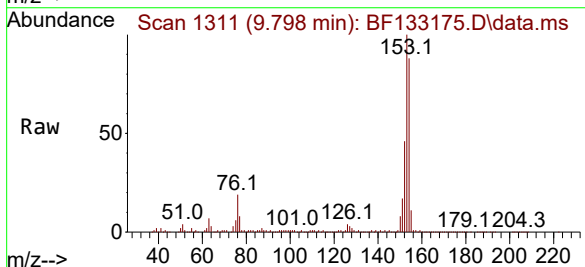
Instrument :
BNA_F
ClientSampleId :
OR-02-04282023

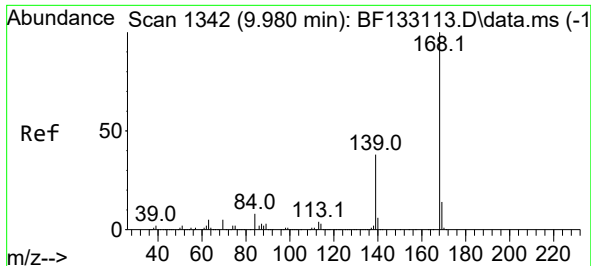
Tgt Ion:165 Resp: 37345
Ion Ratio Lower Upper
165 100
63 1.5 45.9 68.9#
89 1.4 44.0 66.0#



#52
Acenaphthene
Concen: 8.222 ng
RT: 9.798 min Scan# 1311
Delta R.T. -0.006 min
Lab File: BF133175.D
Acq: 02 May 2023 01:25

Tgt Ion:154 Resp: 138817
Ion Ratio Lower Upper
154 100
153 113.5 89.0 133.6
152 52.4 40.4 60.6

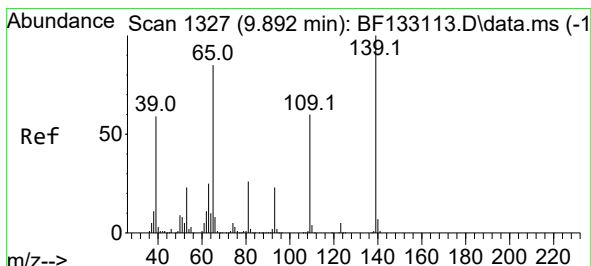
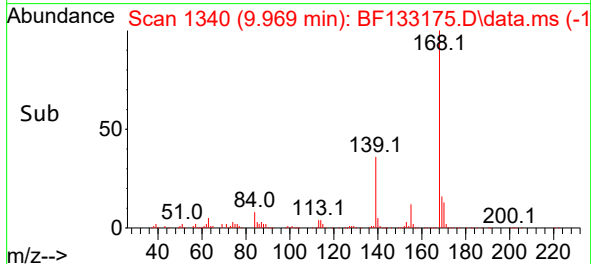
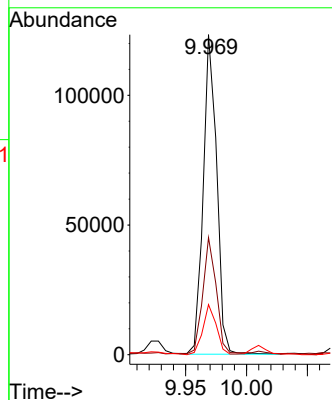
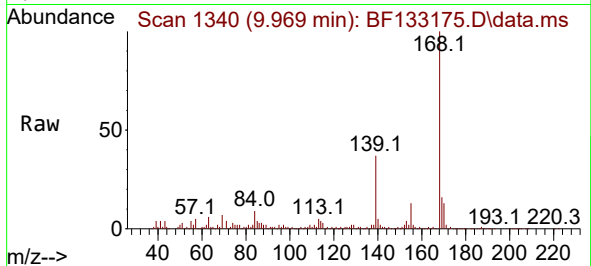




#55
Dibenzenofuran
Concen: 4.125 ng
RT: 9.969 min Scan# 1340
Delta R.T. -0.006 min
Lab File: BF133175.D
Acq: 02 May 2023 01:25

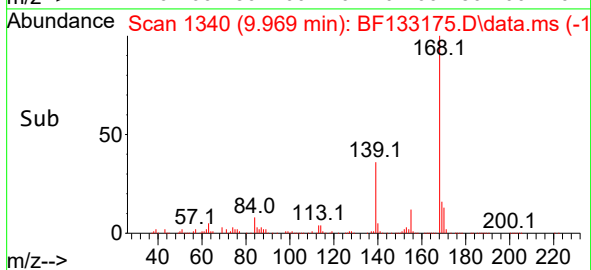
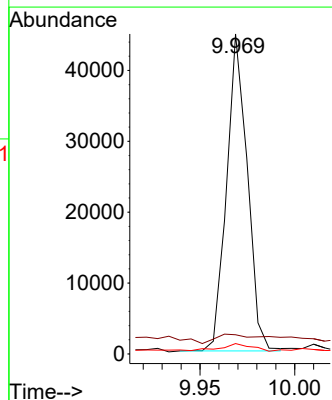
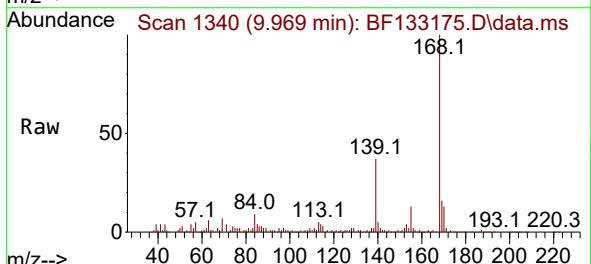
Instrument :
BNA_F
ClientSampleId :
OR-02-04282023

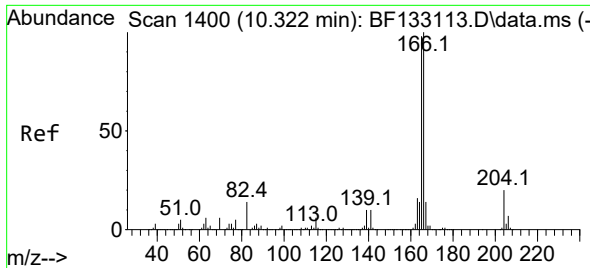
Tgt Ion:168 Resp: 95008
Ion Ratio Lower Upper
168 100
139 36.6 29.8 44.8
169 15.7 10.8 16.2



#56
4-Nitrophenol
Concen: 8.660 ng
RT: 9.969 min Scan# 1340
Delta R.T. 0.083 min
Lab File: BF133175.D
Acq: 02 May 2023 01:25

Tgt Ion:139 Resp: 34020
Ion Ratio Lower Upper
139 100
109 6.0 39.4 79.4#
65 3.3 57.5 97.5#

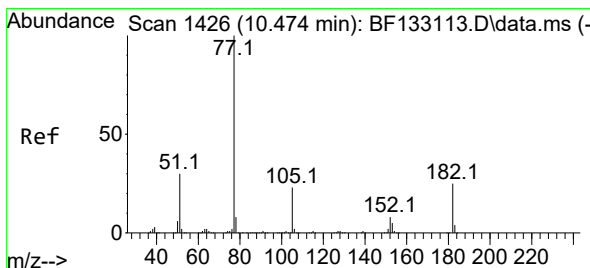
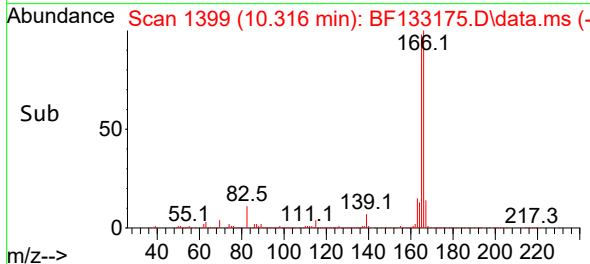
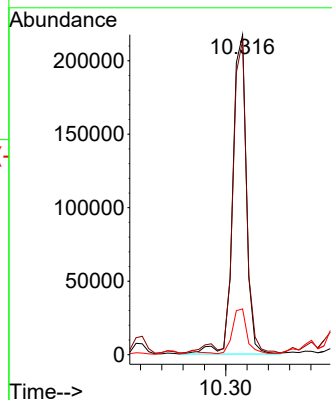
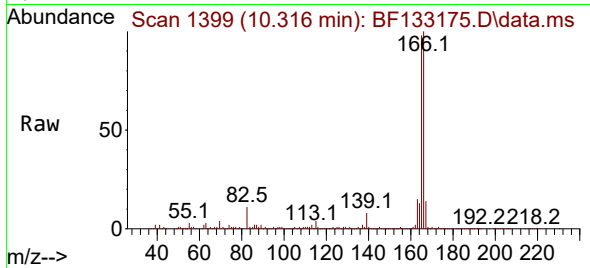




#58
Fluorene
Concen: 11.509 ng
RT: 10.316 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF133175.D
Acq: 02 May 2023 01:25

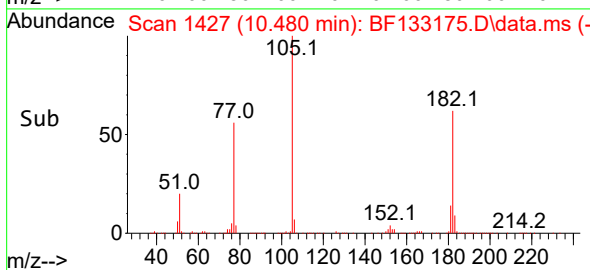
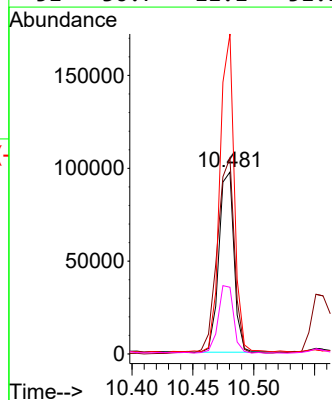
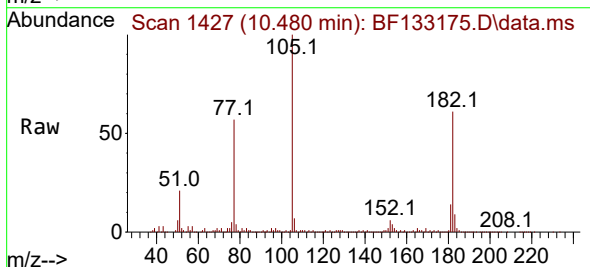
Instrument :
BNA_F
ClientSampleId :
OR-02-04282023

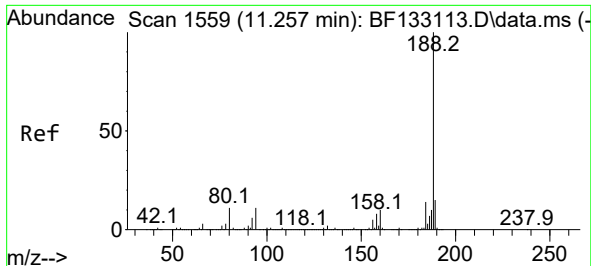
Tgt Ion:166 Resp: 194187
Ion Ratio Lower Upper
166 100
165 98.2 78.6 117.8
167 14.3 11.0 16.4



#63
Azobenzene
Concen: 4.470 ng
RT: 10.480 min Scan# 1427
Delta R.T. 0.006 min
Lab File: BF133175.D
Acq: 02 May 2023 01:25

Tgt Ion: 77 Resp: 84770
Ion Ratio Lower Upper
77 100
182 107.7 5.9 45.9#
105 175.9 2.3 42.3#
51 36.7 11.1 51.1

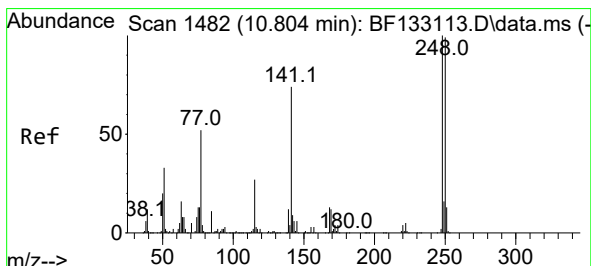
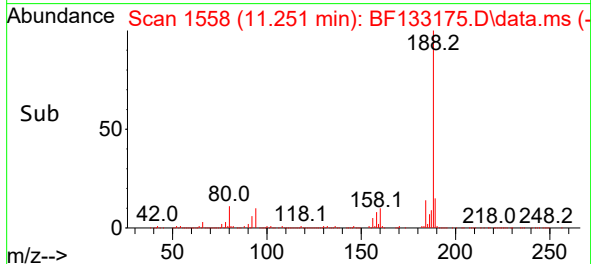
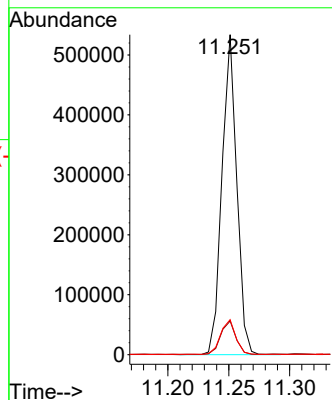
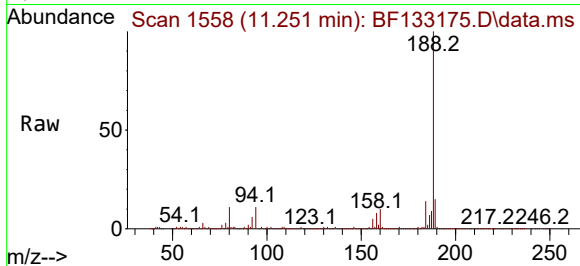




#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.251 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF133175.D
Acq: 02 May 2023 01:25

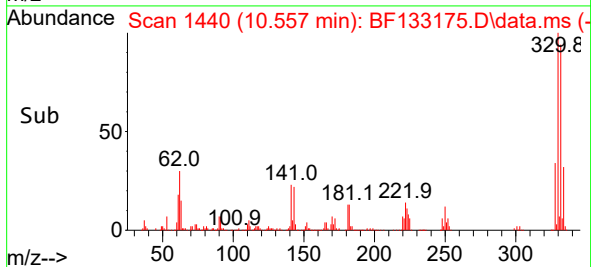
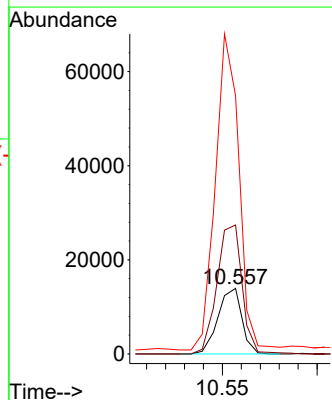
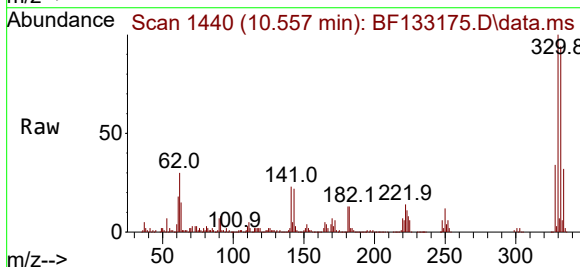
Instrument :
BNA_F
ClientSampleId :
OR-02-04282023

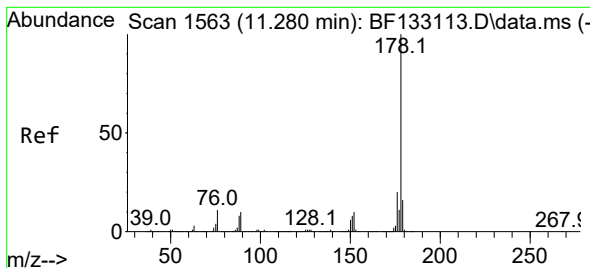
Tgt Ion:188 Resp: 452628
Ion Ratio Lower Upper
188 100
94 10.5 9.7 14.5
80 11.0 10.4 15.6



#67
4-Bromophenyl-phenylether
Concen: 2.495 ng
RT: 10.557 min Scan# 1440
Delta R.T. -0.247 min
Lab File: BF133175.D
Acq: 02 May 2023 01:25

Tgt Ion:248 Resp: 12247
Ion Ratio Lower Upper
248 100
250 196.6 78.7 118.1#
141 393.4 56.3 84.5#





#71

Phenanthrene

Concen: 70.709 ng

RT: 11.280 min Scan# 11

Delta R.T. 0.000 min

Lab File: BF133175.D

Acq: 02 May 2023 01:25

Instrument :

BNA_F

ClientSampleId :

OR-02-04282023

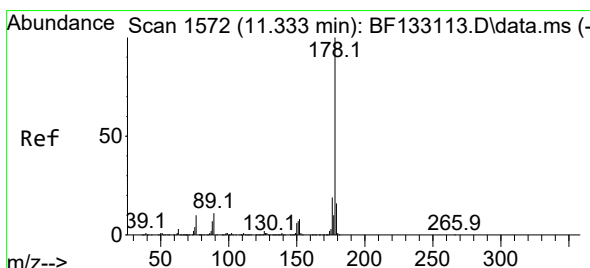
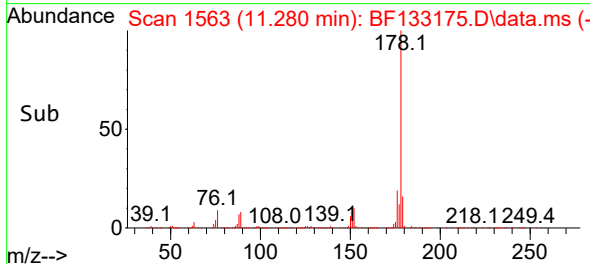
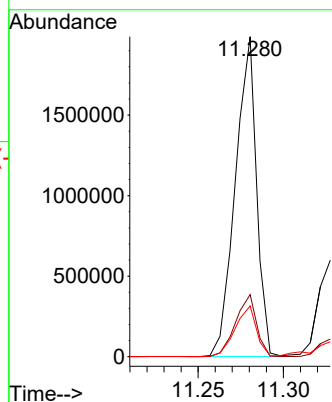
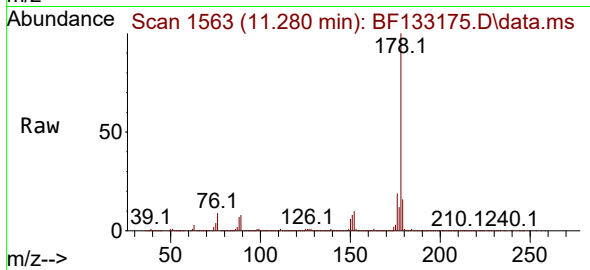
Tgt Ion:178 Resp: 1720163

Ion Ratio Lower Upper

178 100

176 19.4 15.9 23.9

179 15.8 12.5 18.7



#72

Anthracene

Concen: 18.861 ng

RT: 11.328 min Scan# 1571

Delta R.T. 0.000 min

Lab File: BF133175.D

Acq: 02 May 2023 01:25

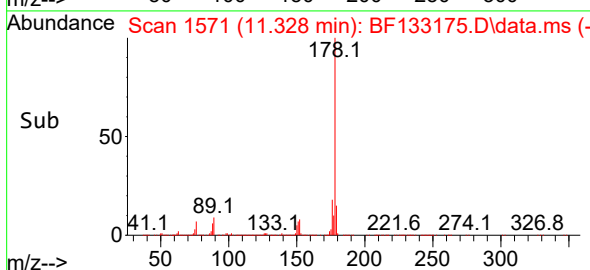
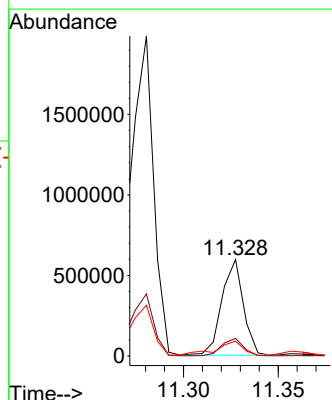
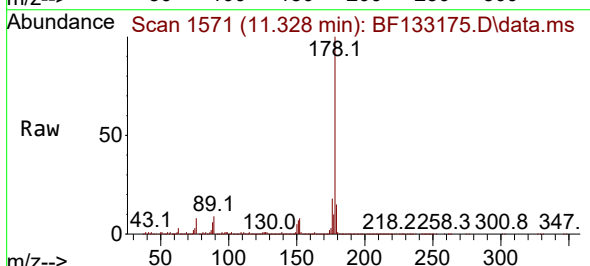
Tgt Ion:178 Resp: 469572

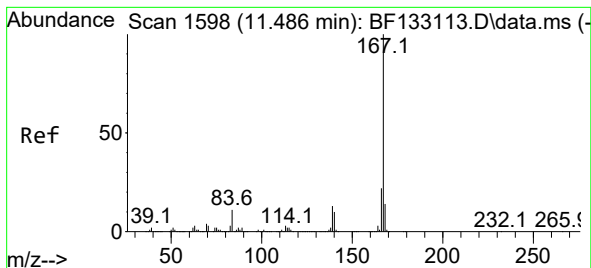
Ion Ratio Lower Upper

178 100

176 18.3 15.4 23.0

179 15.4 12.4 18.6





#73

Carbazole

Concen: 9.959 ng

RT: 11.480 min Scan# 1597

Delta R.T. -0.006 min

Lab File: BF133175.D

Acq: 02 May 2023 01:25

Instrument :

BNA_F

ClientSampleId :

OR-02-04282023

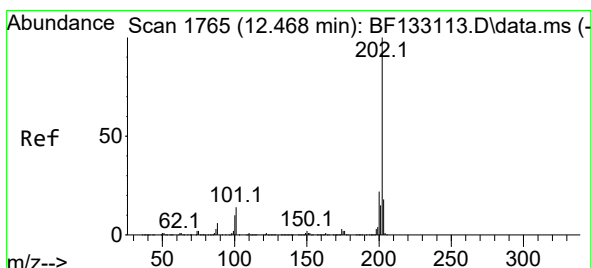
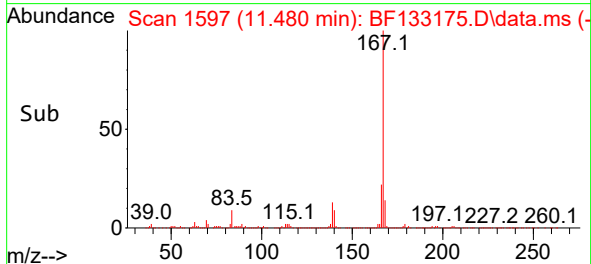
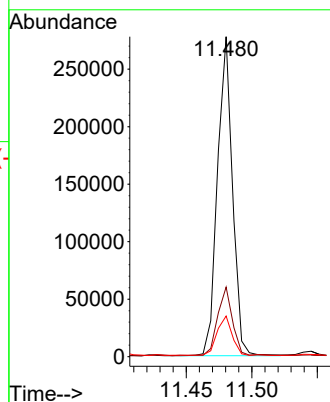
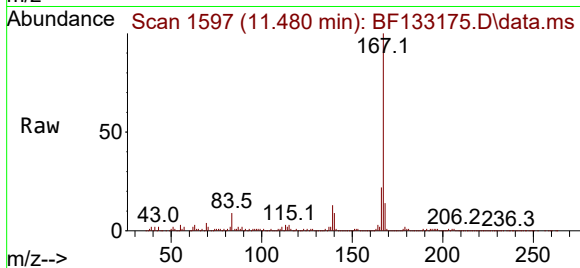
Tgt Ion:167 Resp: 220782

Ion Ratio Lower Upper

167 100

166 21.7 17.4 26.0

139 12.7 10.6 16.0



#75

Fluoranthene

Concen: 100.053 ng

RT: 12.469 min Scan# 1765

Delta R.T. 0.006 min

Lab File: BF133175.D

Acq: 02 May 2023 01:25

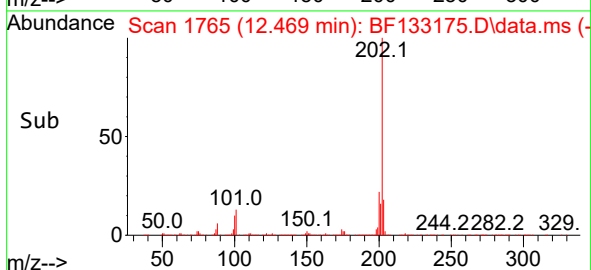
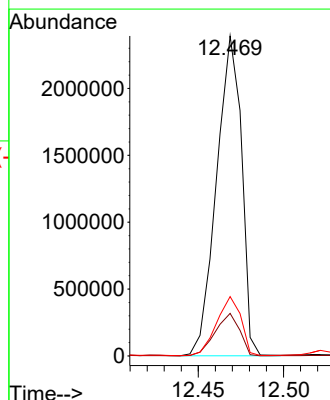
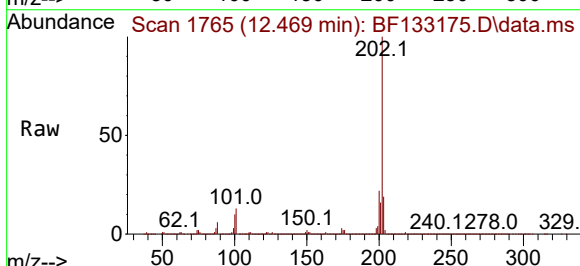
Tgt Ion:202 Resp: 2442813

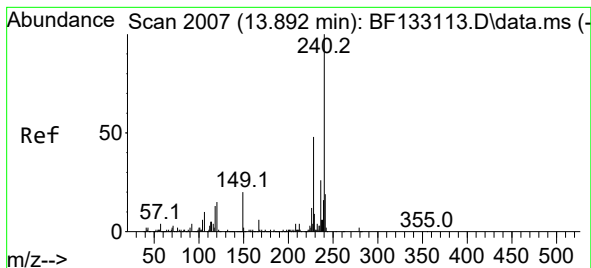
Ion Ratio Lower Upper

202 100

101 13.3 0.0 35.3

203 18.5 0.0 38.1





#76

Chrysene-d12

Concen: 20.000 ng

RT: 13.892 min Scan# 2007

Delta R.T. 0.000 min

Lab File: BF133175.D

Acq: 02 May 2023 01:25

Instrument :

BNA_F

ClientSampleId :

OR-02-04282023

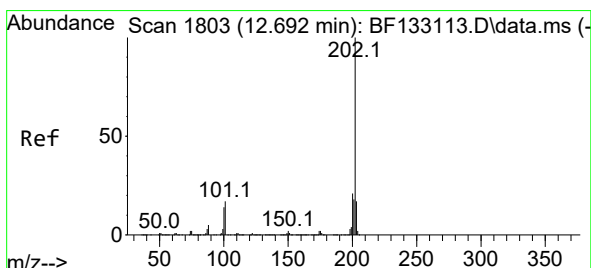
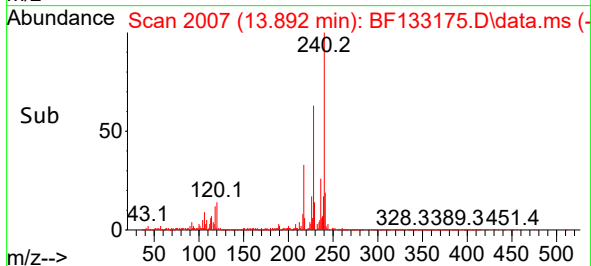
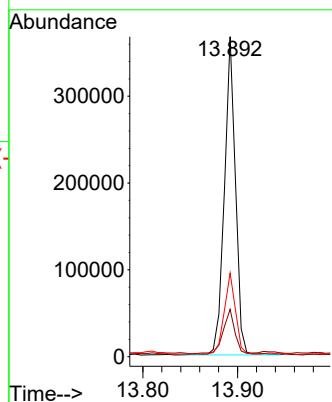
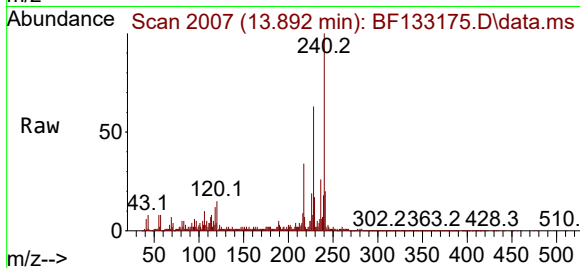
Tgt Ion:240 Resp: 300832

Ion Ratio Lower Upper

240 100

120 14.8 10.5 15.7

236 26.2 21.5 32.3



#78

Pyrene

Concen: 83.420 ng

RT: 12.698 min Scan# 1804

Delta R.T. 0.006 min

Lab File: BF133175.D

Acq: 02 May 2023 01:25

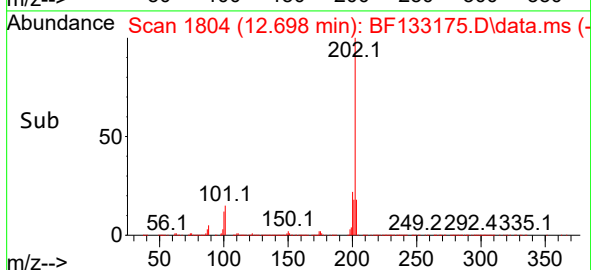
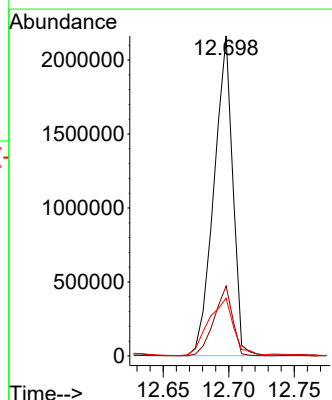
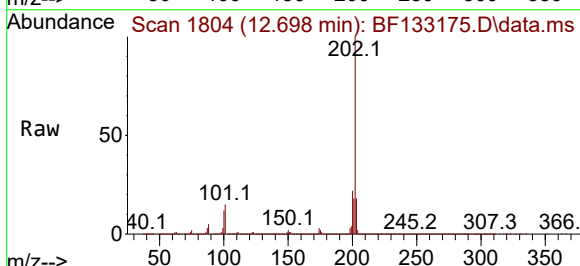
Tgt Ion:202 Resp: 2151243

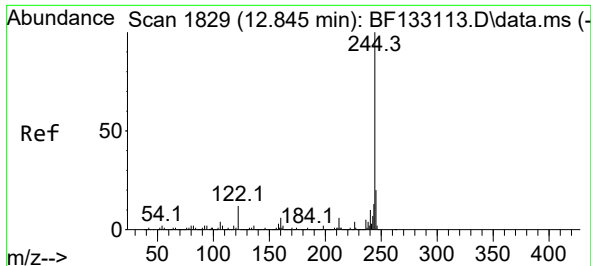
Ion Ratio Lower Upper

202 100

200 21.9 17.1 25.7

203 18.1 14.1 21.1

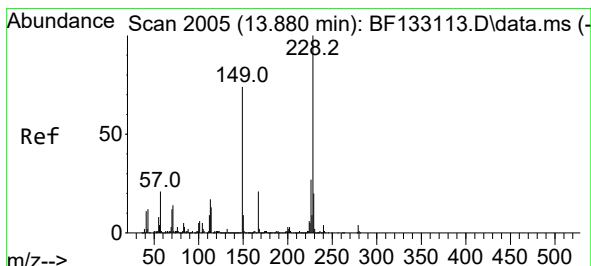
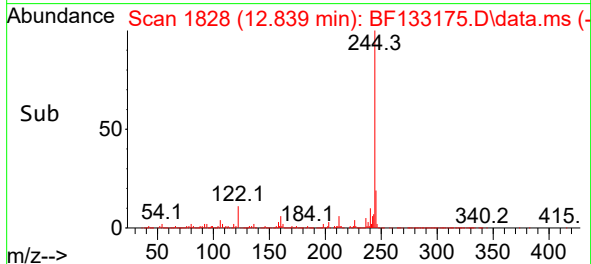
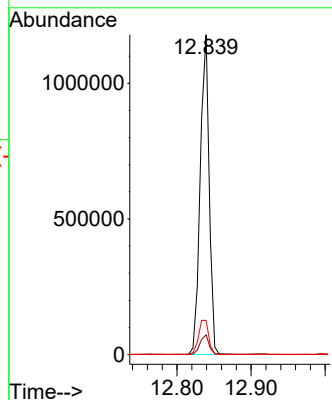
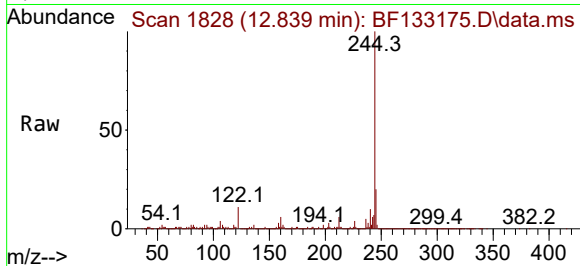




#79
 Terphenyl-d14
 Concen: 56.466 ng
 RT: 12.839 min Scan# 1829
 Delta R.T. 0.000 min
 Lab File: BF133175.D
 Acq: 02 May 2023 01:25

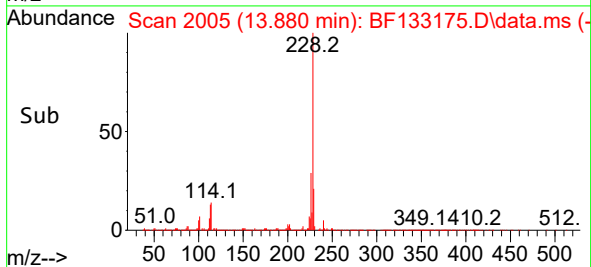
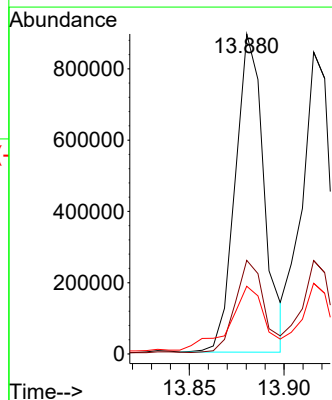
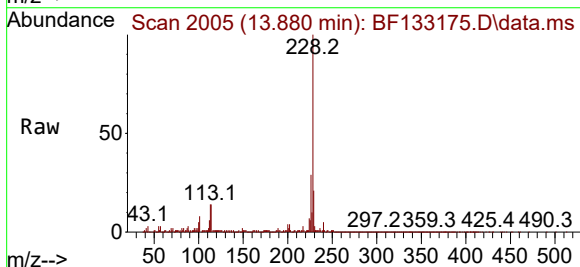
Instrument :
 BNA_F
 ClientSampleId :
 OR-02-04282023

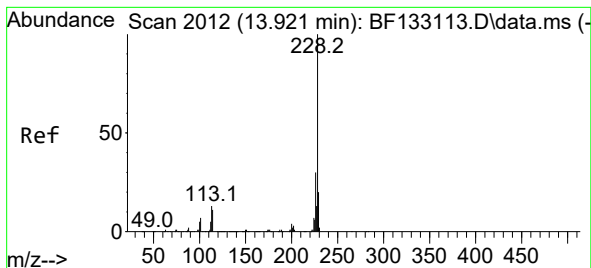
Tgt Ion:244 Resp: 984932
 Ion Ratio Lower Upper
 244 100
 212 6.2 5.1 7.7
 122 10.7 8.6 13.0



#81
 Benzo(a)anthracene
 Concen: 45.529 ng
 RT: 13.880 min Scan# 2005
 Delta R.T. 0.000 min
 Lab File: BF133175.D
 Acq: 02 May 2023 01:25

Tgt Ion:228 Resp: 941876
 Ion Ratio Lower Upper
 228 100
 226 29.2 22.2 33.4
 229 21.1 16.0 24.0





#83

Chrysene

Concen: 41.341 ng

RT: 13.916 min Scan# 20

Delta R.T. 0.000 min

Lab File: BF133175.D

Acq: 02 May 2023 01:25

Instrument :

BNA_F

ClientSampleId :

OR-02-04282023

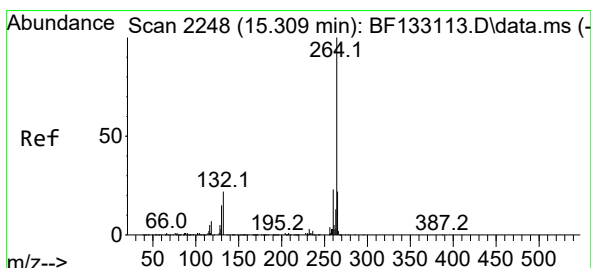
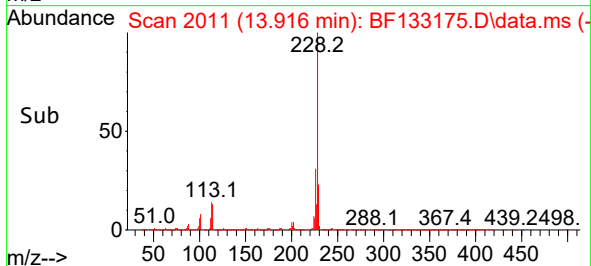
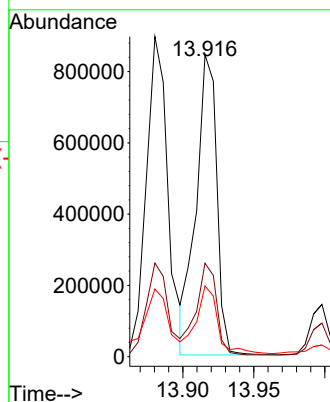
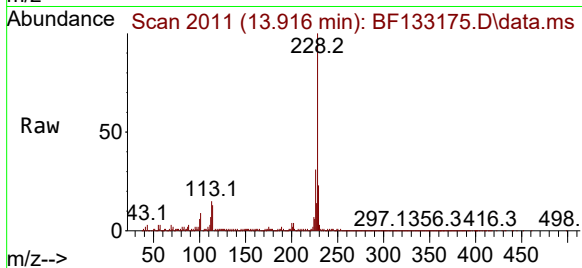
Tgt Ion:228 Resp: 855013

Ion Ratio Lower Upper

228 100

226 31.0 24.7 37.1

229 23.4 16.1 24.1



#86

Perylene-d12

Concen: 20.000 ng

RT: 15.315 min Scan# 2249

Delta R.T. 0.012 min

Lab File: BF133175.D

Acq: 02 May 2023 01:25

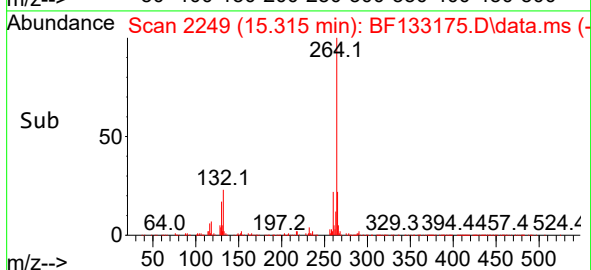
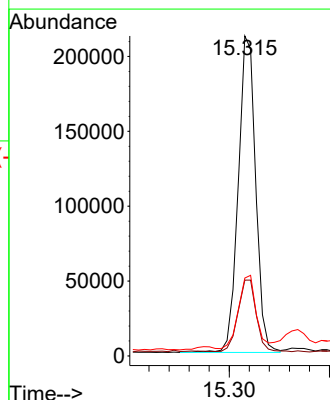
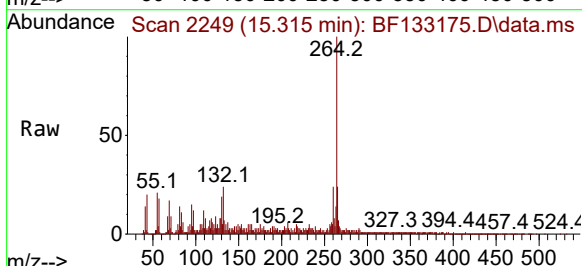
Tgt Ion:264 Resp: 255565

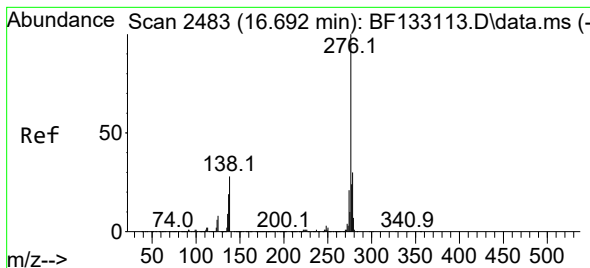
Ion Ratio Lower Upper

264 100

260 23.7 18.8 28.2

265 24.4 17.0 25.4





#87

Indeno(1,2,3-cd)pyrene

Concen: 22.604 ng

RT: 16.710 min Scan# 2483

Delta R.T. 0.024 min

Lab File: BF133175.D

Acq: 02 May 2023 01:25

Instrument :

BNA_F

ClientSampleId :

OR-02-04282023

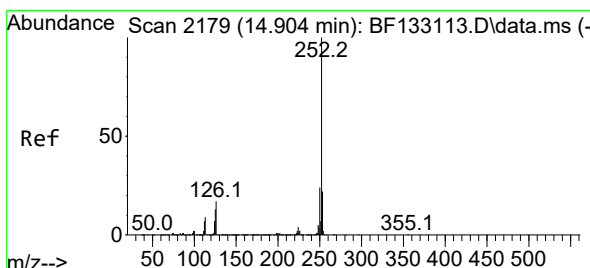
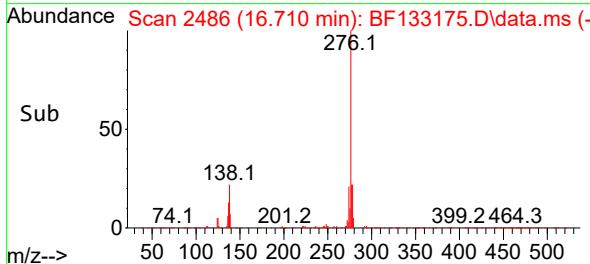
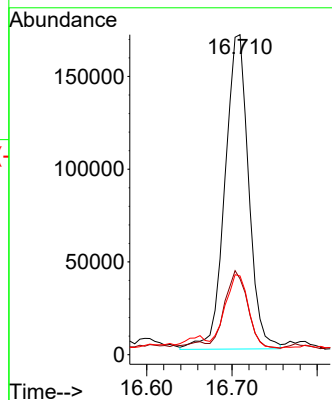
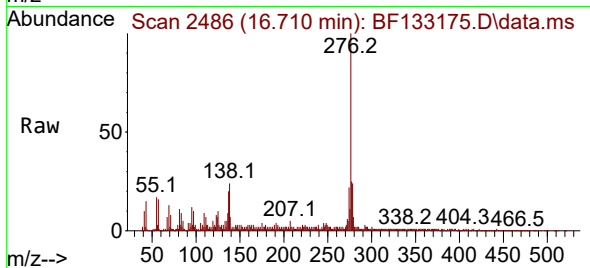
Tgt Ion:276 Resp: 328598

Ion Ratio Lower Upper

276 100

138 26.5 25.5 38.3

277 22.9 20.4 30.6



#88

Benzo(b)fluoranthene

Concen: 70.578 ng

RT: 14.916 min Scan# 2181

Delta R.T. 0.012 min

Lab File: BF133175.D

Acq: 02 May 2023 01:25

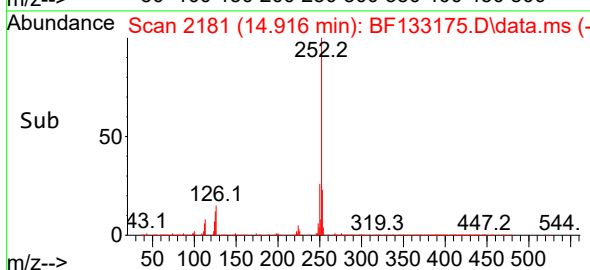
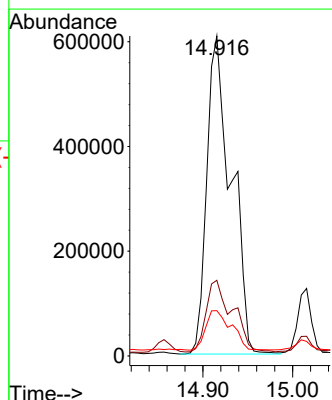
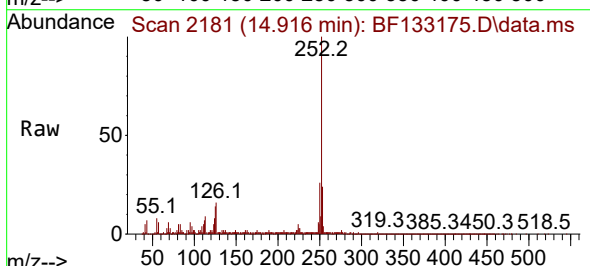
Tgt Ion:252 Resp: 1147510

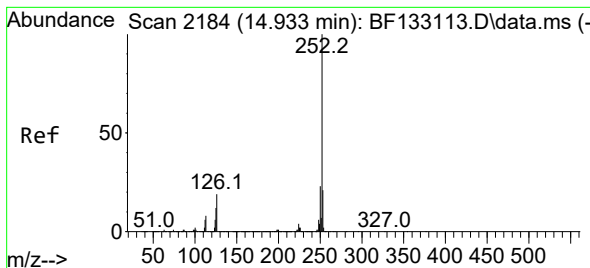
Ion Ratio Lower Upper

252 100

253 23.6 17.6 26.4

125 14.2 8.9 13.3#





#89

Benzo(k)fluoranthene

Concen: 71.198 ng

RT: 14.916 min Scan# 2184

Delta R.T. -0.017 min

Lab File: BF133175.D

Acq: 02 May 2023 01:25

Instrument :

BNA_F

ClientSampleId :

OR-02-04282023

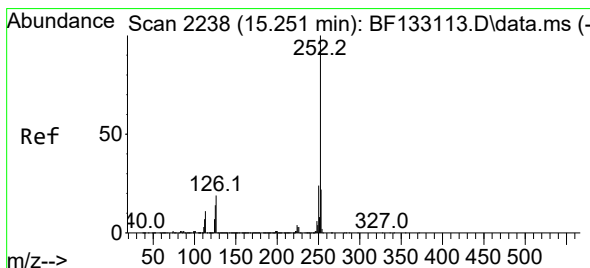
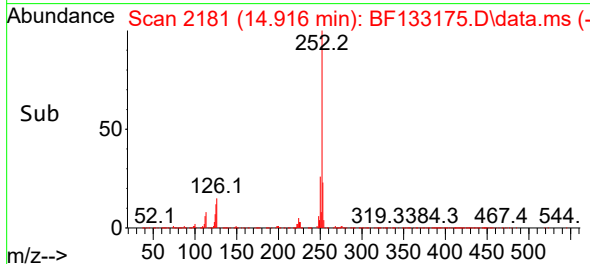
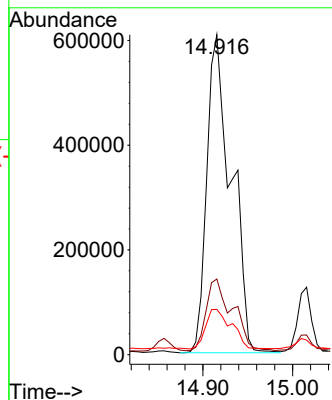
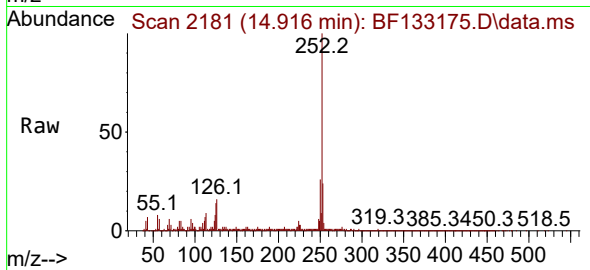
Tgt Ion:252 Resp: 1147510

Ion Ratio Lower Upper

252 100

253 23.6 17.7 26.5

125 14.2 9.0 13.4#



#90

Benzo(a)pyrene

Concen: 41.097 ng

RT: 15.257 min Scan# 2239

Delta R.T. 0.006 min

Lab File: BF133175.D

Acq: 02 May 2023 01:25

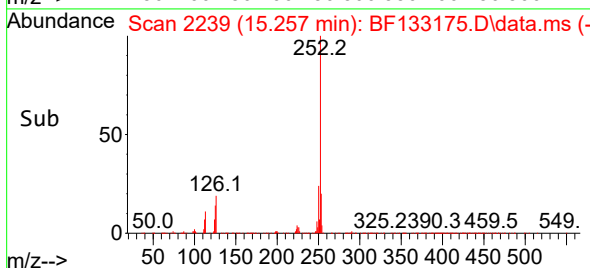
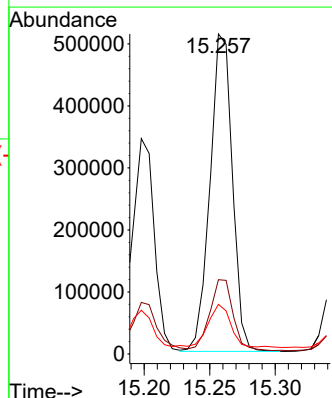
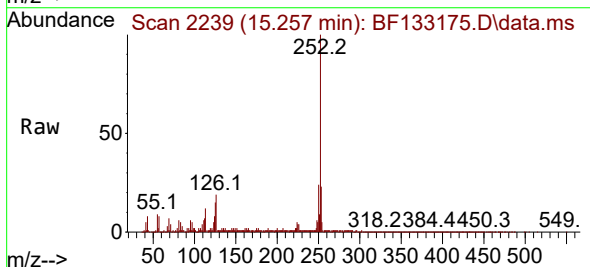
Tgt Ion:252 Resp: 608183

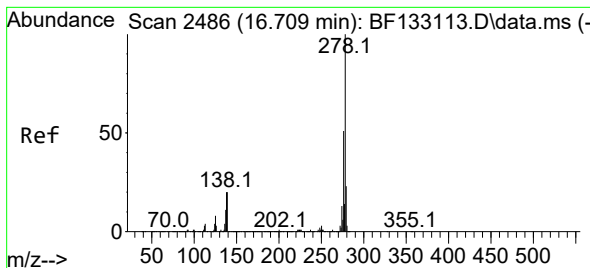
Ion Ratio Lower Upper

252 100

253 23.2 17.7 26.5

125 15.5 10.5 15.7





#91

Dibenzo(a,h)anthracene

Concen: 6.797 ng

RT: 16.715 min Scan# 24

Delta R.T. 0.012 min

Lab File: BF133175.D

Acq: 02 May 2023 01:25

Instrument :

BNA_F

ClientSampleId :

OR-02-04282023

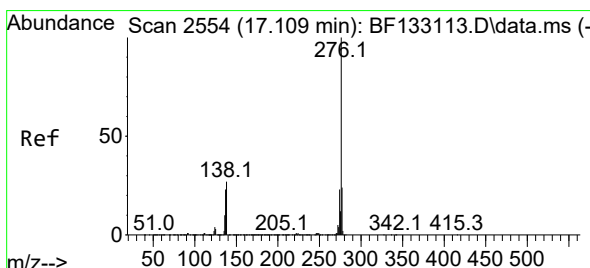
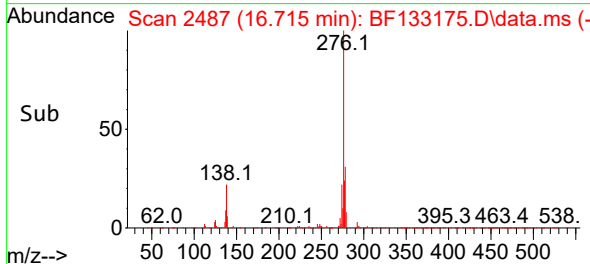
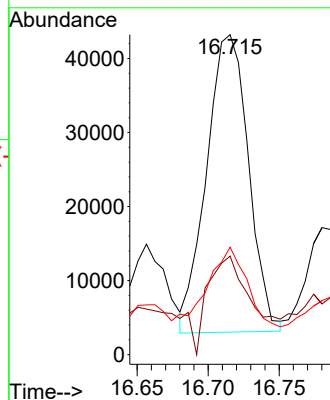
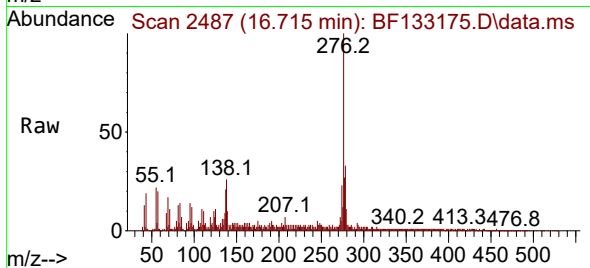
Tgt Ion:278 Resp: 82405

Ion Ratio Lower Upper

278 100

139 30.8 16.6 24.8#

279 33.6 18.8 28.2#



#92

Benzo(g,h,i)perylene

Concen: 25.322 ng

RT: 17.127 min Scan# 2557

Delta R.T. 0.024 min

Lab File: BF133175.D

Acq: 02 May 2023 01:25

Tgt Ion:276 Resp: 303105

Ion Ratio Lower Upper

276 100

277 24.6 19.4 29.0

138 26.9 22.7 34.1

