

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF090523\
 Data File : BF135093.D
 Acq On : 05 Sep 2023 13:52
 Operator : CG\JU
 Sample : 04110-24
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 TP-20(2-3)

Quant Time: Sep 05 14:19:09 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF083023.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Aug 31 03:48:08 2023
 Response via : Initial Calibration

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

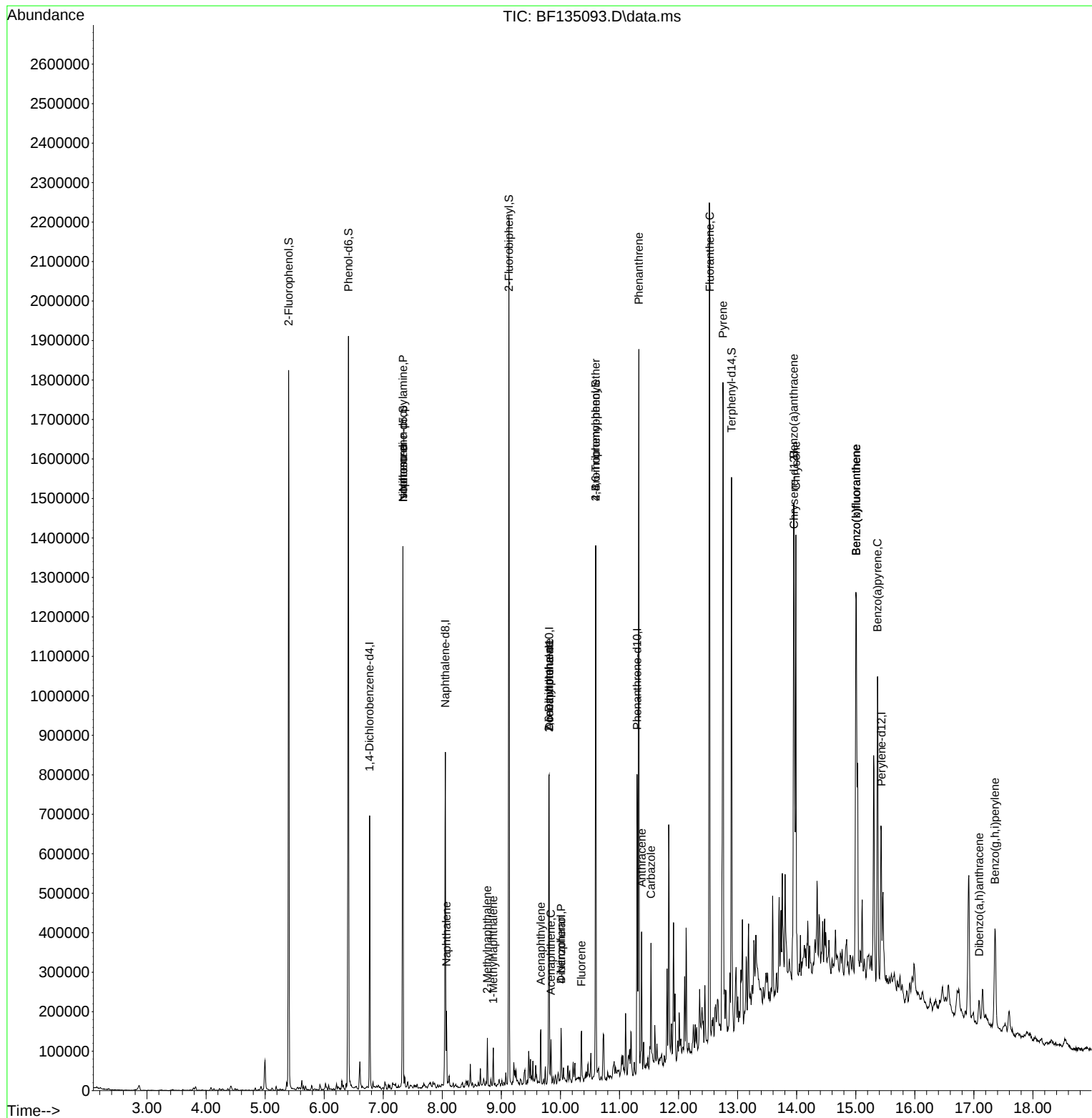
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.769	152	88499	20.000	ng	0.00
21) Naphthalene-d8	8.051	136	347170	20.000	ng	0.00
39) Acenaphthene-d10	9.810	164	166253	20.000	ng	0.00
64) Phenanthrene-d10	11.298	188	278526	20.000	ng	-0.01
76) Chrysene-d12	13.957	240	164072	20.000	ng	0.00
86) Perylene-d12	15.433	264	190652	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.398	112	483784	84.437	ng	0.00
7) Phenol-d6	6.410	99	586780	82.165	ng	0.00
23) Nitrobenzene-d5	7.334	82	387055	62.635	ng	-0.01
42) 2,4,6-Tribromophenol	10.598	330	142116	80.583	ng	-0.01
45) 2-Fluorobiphenyl	9.128	172	628315	61.531	ng	-0.01
79) Terphenyl-d14	12.898	244	447470	44.506	ng	0.00
Target Compounds						Qvalue
19) n-Nitroso-di-n-propyla...	7.334	70	52984	12.490	ng	# 75
25) Isophorone	7.334	82	385187	32.876	ng	# 65
31) Naphthalene	8.069	128	69956	4.125	ng	98
37) 2-Methylnaphthalene	8.763	142	28121	2.485	ng	99
38) 1-Methylnaphthalene	8.863	142	22600	2.135	ng	97
49) Acenaphthylene	9.669	152	49759	3.446	ng	100
50) Dimethylphthalate	9.810	163	34205	2.938	ng	# 1
51) 2,6-Dinitrotoluene	9.804	165	22432	8.782	ng	# 22
52) Acenaphthene	9.839	154	18429	2.003	ng	97
55) Dibenzofuran	10.010	168	36445	2.746	ng	# 96
56) 4-Nitrophenol	10.010	139	14318	6.845	ng	# 10
58) Fluorene	10.357	166	28461	2.812	ng	99
67) 4-Bromophenyl-phenylether	10.598	248	9063	3.068	ng	# 1
69) Atrazine	10.998	200	91	Below Cal		# 1
71) Phenanthrene	11.327	178	652210	45.389	ng	99
72) Anthracene	11.375	178	118259	8.055	ng	97
73) Carbazole	11.533	167	109335	8.634	ng	99
75) Fluoranthene	12.527	202	940510	64.737	ng	98
78) Pyrene	12.751	202	742927	47.691	ng	99
81) Benzo(a)anthracene	13.951	228	406429	36.314	ng	95
83) Chrysene	13.986	228	437649	39.790	ng	98
88) Benzo(b)fluoranthene	15.010	252	760899	64.142	ng	99
89) Benzo(k)fluoranthene	15.010	252	760899	66.394	ng	99
90) Benzo(a)pyrene	15.368	252	368214	33.413	ng	97
91) Dibenzo(a,h)anthracene	17.092	278	45397	4.365	ng	97
92) Benzo(g,h,i)perylene	17.357	276	213316	19.720	ng	99

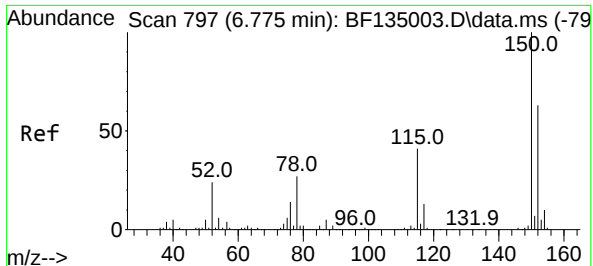
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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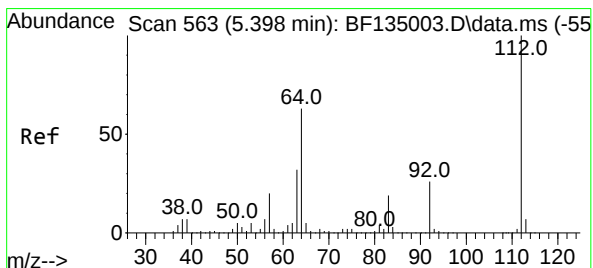
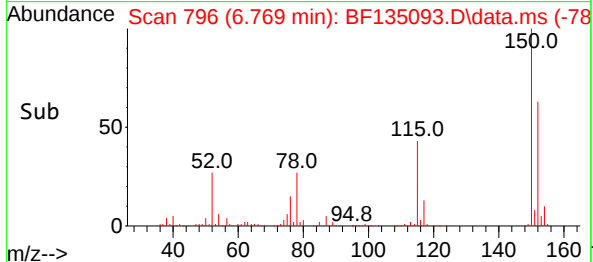
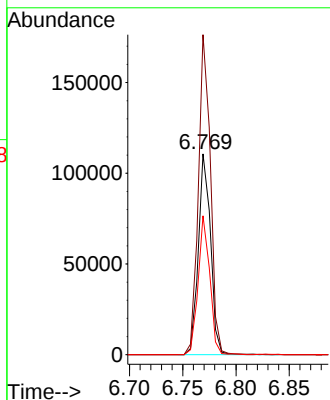
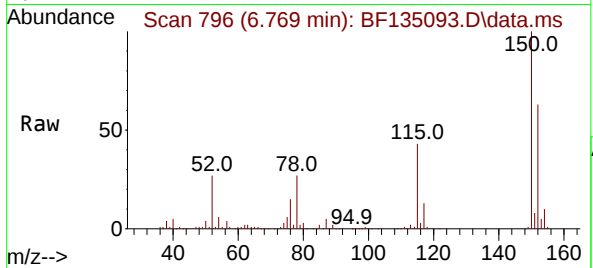




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.769 min Scan# 797
Delta R.T. -0.006 min
Lab File: BF135093.D
Acq: 05 Sep 2023 13:52

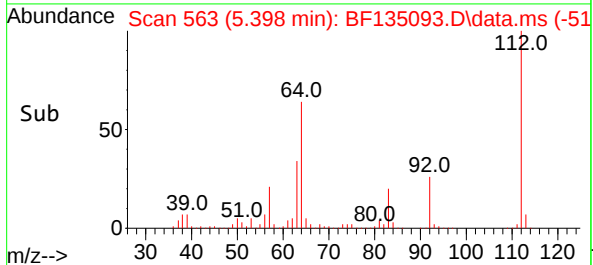
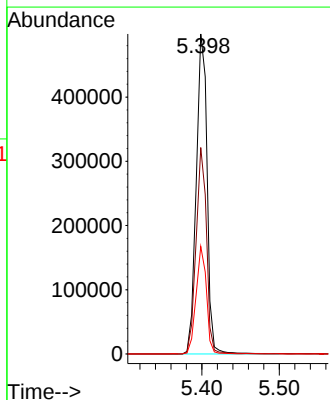
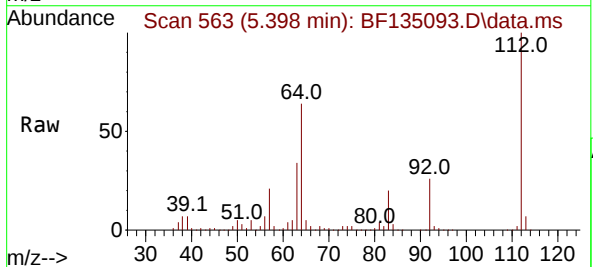
Instrument :
BNA_F
ClientSampleId :
TP-20(2-3)

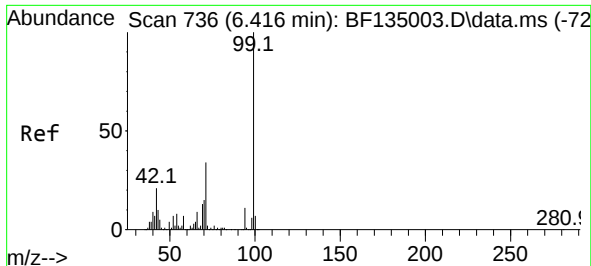
Tgt Ion:152 Resp: 88499
Ion Ratio Lower Upper
152 100
150 159.4 126.2 189.4
115 69.2 51.2 76.8



#5
2-Fluorophenol
Concen: 84.437 ng
RT: 5.398 min Scan# 563
Delta R.T. 0.000 min
Lab File: BF135093.D
Acq: 05 Sep 2023 13:52

Tgt Ion:112 Resp: 483784
Ion Ratio Lower Upper
112 100
64 64.5 50.5 75.7
63 33.6 25.9 38.9

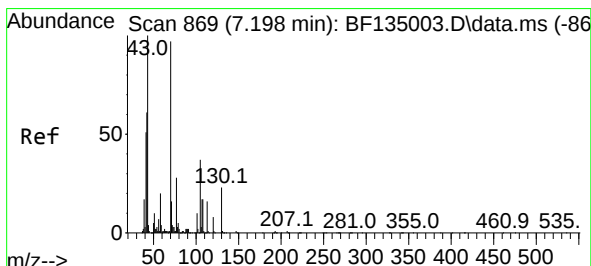
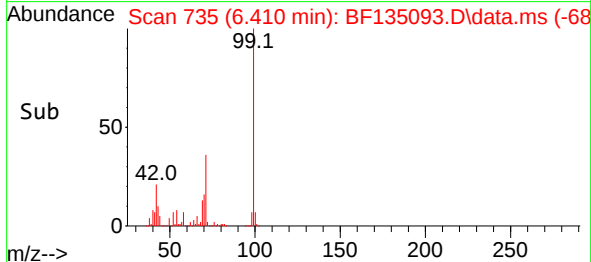
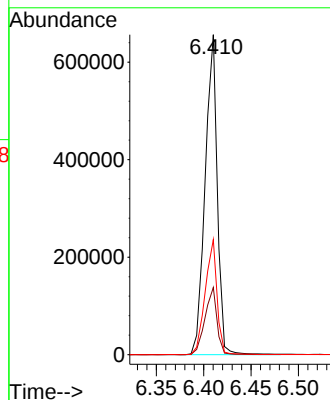
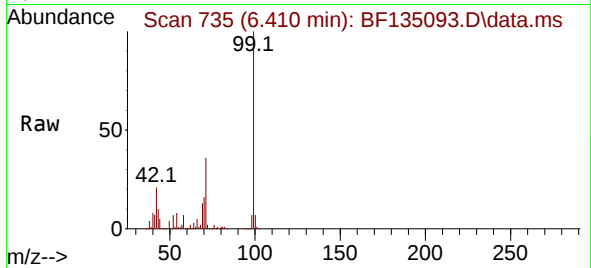




#7
Phenol-d6
Concen: 82.165 ng
RT: 6.410 min Scan# 71
Delta R.T. -0.006 min
Lab File: BF135093.D
Acq: 05 Sep 2023 13:52

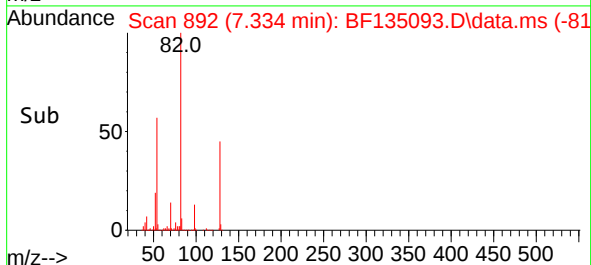
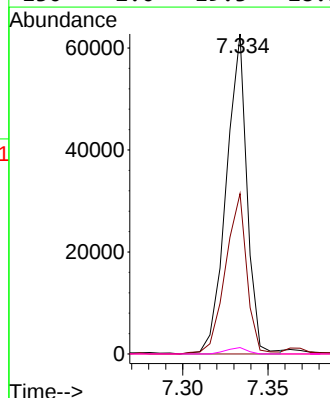
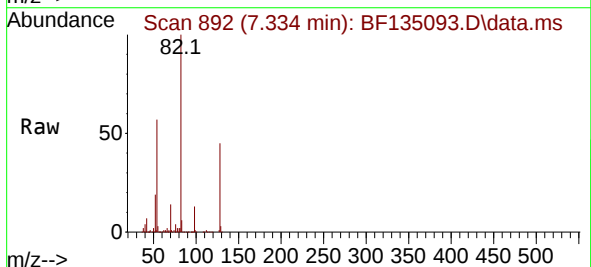
Instrument :
BNA_F
ClientSampleId :
TP-20(2-3)

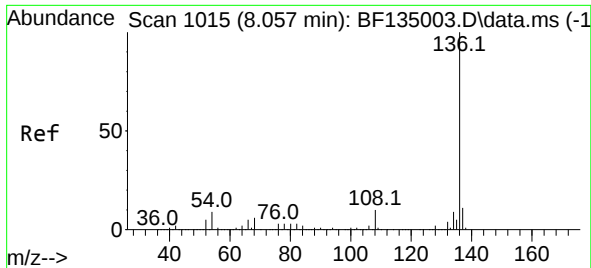
Tgt Ion: 99 Resp: 586780
Ion Ratio Lower Upper
99 100
42 21.0 16.6 25.0
71 35.9 27.0 40.6



#19
n-Nitroso-di-n-propylamine
Concen: 12.490 ng
RT: 7.334 min Scan# 892
Delta R.T. 0.135 min
Lab File: BF135093.D
Acq: 05 Sep 2023 13:52

Tgt Ion: 70 Resp: 52984
Ion Ratio Lower Upper
70 100
42 50.1 50.2 75.4#
101 0.0 8.1 12.1#
130 2.0 19.3 28.9#

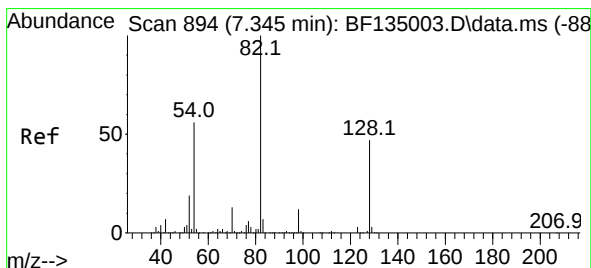
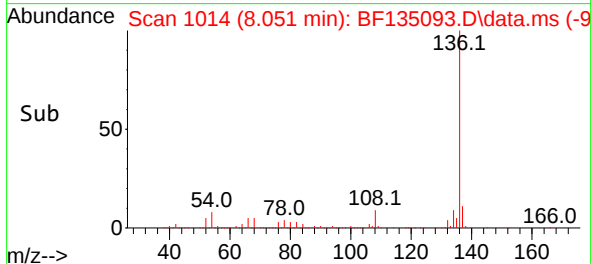
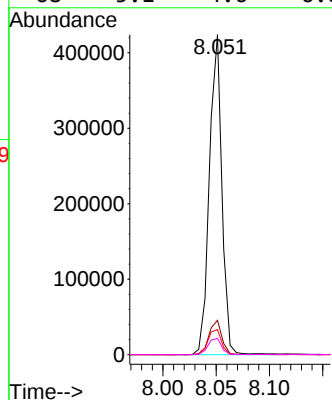
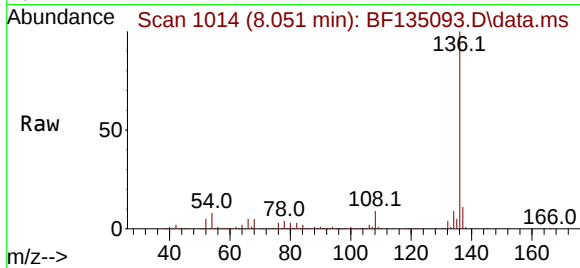




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.051 min Scan# 1014
Delta R.T. -0.006 min
Lab File: BF135093.D
Acq: 05 Sep 2023 13:52

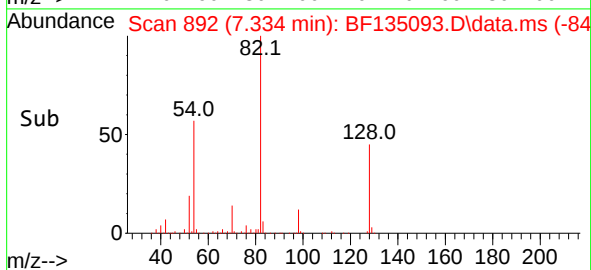
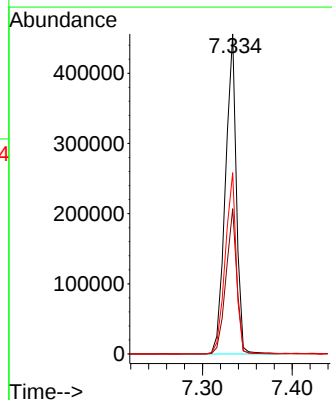
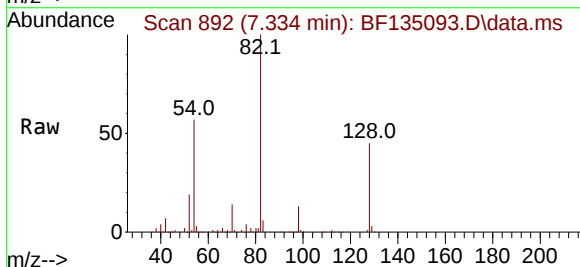
Instrument :
BNA_F
ClientSampleId :
TP-20(2-3)

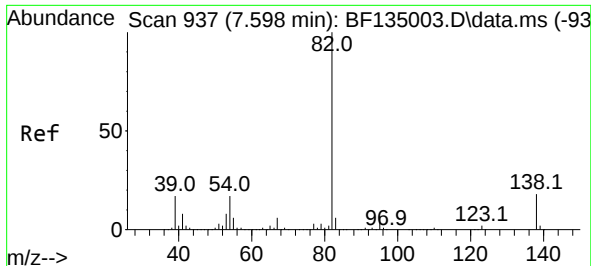
Tgt Ion:	136	Resp:	347170
Ion	Ratio	Lower	Upper
136	100		
137	10.8	8.8	13.2
54	7.9	7.0	10.4
68	5.1	4.6	6.8



#23
Nitrobenzene-d5
Concen: 62.635 ng
RT: 7.334 min Scan# 892
Delta R.T. -0.012 min
Lab File: BF135093.D
Acq: 05 Sep 2023 13:52

Tgt Ion:	82	Resp:	387055
Ion	Ratio	Lower	Upper
82	100		
128	45.4	37.8	56.8
54	56.7	45.0	67.6

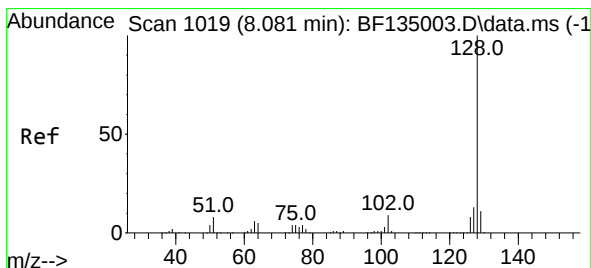
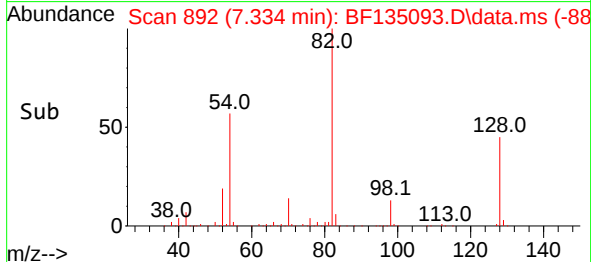
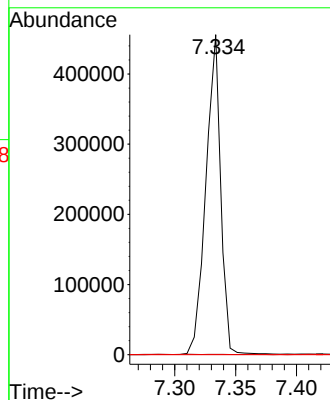
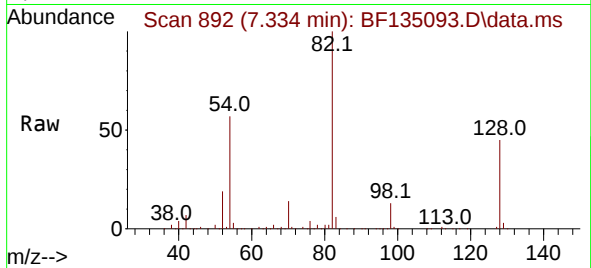




#25
Isophorone
Concen: 32.876 ng
RT: 7.334 min Scan# 892
Delta R.T. -0.265 min
Lab File: BF135093.D
Acq: 05 Sep 2023 13:52

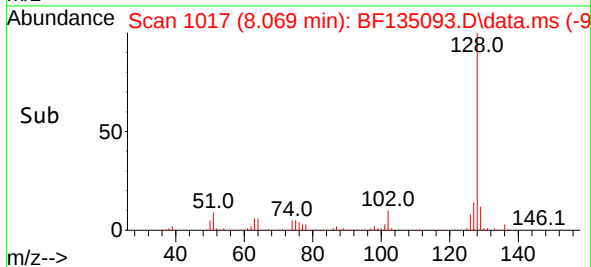
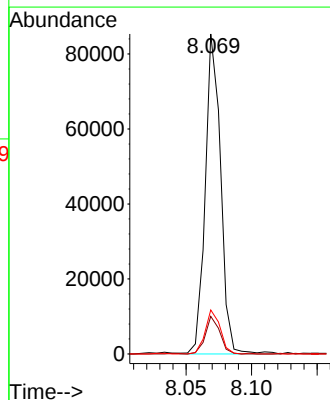
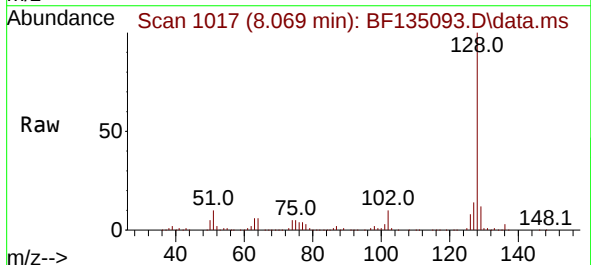
Instrument :
BNA_F
ClientSampleId :
TP-20(2-3)

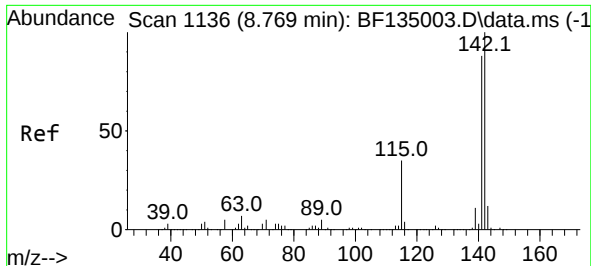
Tgt Ion: 82 Resp: 385187
Ion Ratio Lower Upper
82 100
95 0.1 5.6 8.4#
138 0.0 14.7 22.1#



#31
Naphthalene
Concen: 4.125 ng
RT: 8.069 min Scan# 1017
Delta R.T. -0.012 min
Lab File: BF135093.D
Acq: 05 Sep 2023 13:52

Tgt Ion: 128 Resp: 69956
Ion Ratio Lower Upper
128 100
129 11.7 8.6 13.0
127 13.7 10.6 16.0





#37

2-Methylnaphthalene

Concen: 2.485 ng

RT: 8.763 min Scan# 1135

Delta R.T. -0.006 min

Lab File: BF135093.D

Acq: 05 Sep 2023 13:52

Instrument :

BNA_F

ClientSampleId :

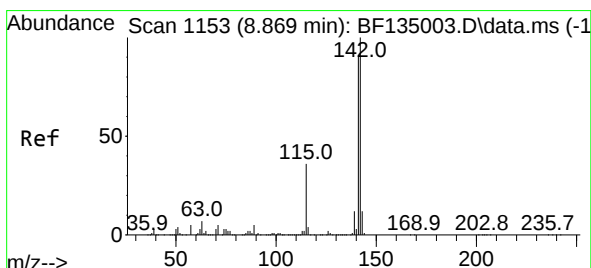
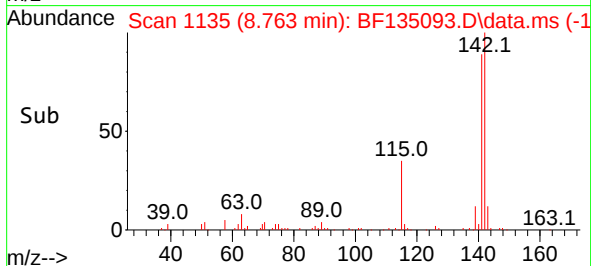
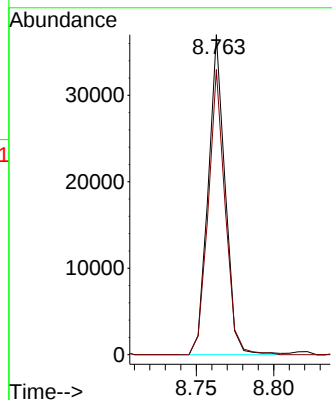
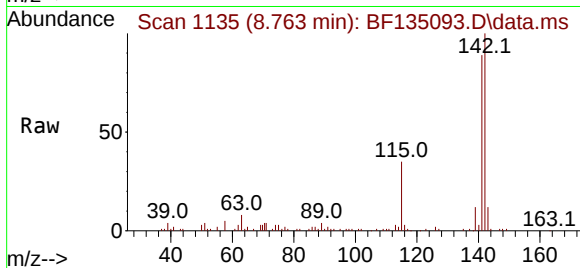
TP-20(2-3)

Tgt Ion:142 Resp: 28121

Ion Ratio Lower Upper

142 100

141 89.1 70.7 106.1



#38

1-Methylnaphthalene

Concen: 2.135 ng

RT: 8.863 min Scan# 1152

Delta R.T. -0.006 min

Lab File: BF135093.D

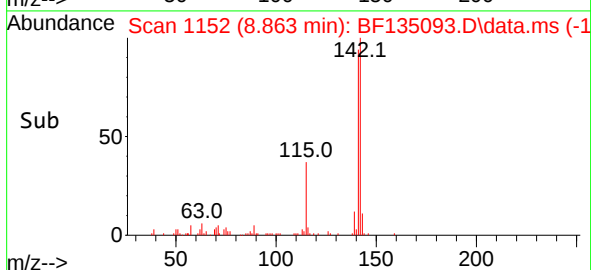
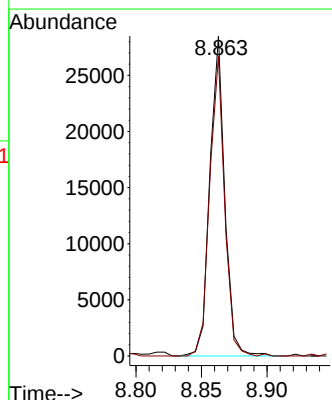
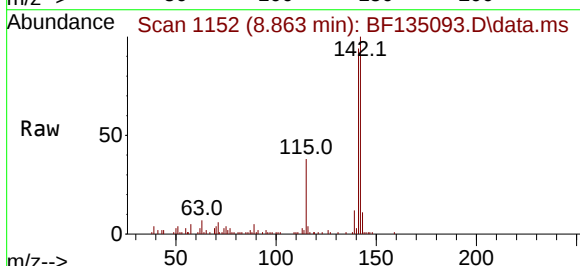
Acq: 05 Sep 2023 13:52

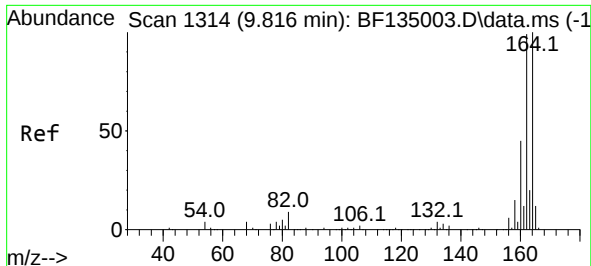
Tgt Ion:142 Resp: 22600

Ion Ratio Lower Upper

142 100

141 93.7 73.0 109.4





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.810 min Scan# 11

Delta R.T. -0.006 min

Lab File: BF135093.D

Acq: 05 Sep 2023 13:52

Instrument :

BNA_F

ClientSampleId :

TP-20(2-3)

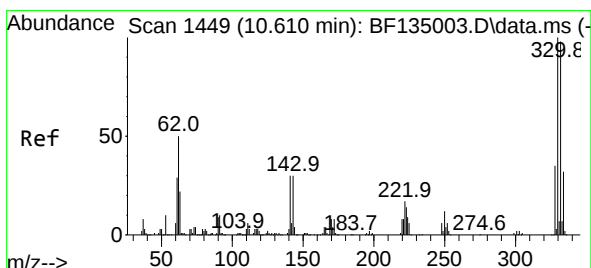
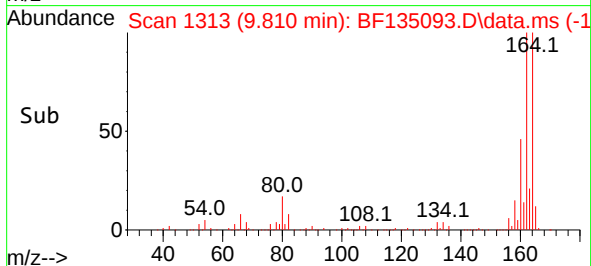
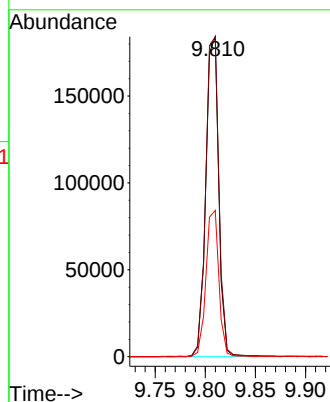
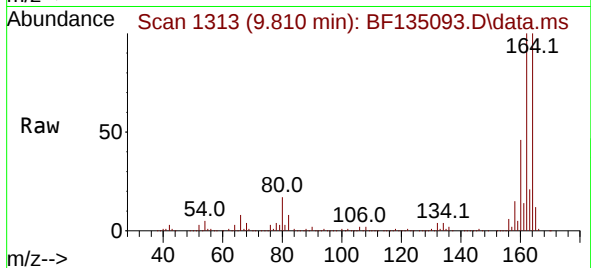
Tgt Ion:164 Resp: 166253

Ion Ratio Lower Upper

164 100

162 100.1 79.5 119.3

160 45.7 36.0 54.0



#42

2,4,6-Tribromophenol

Concen: 80.583 ng

RT: 10.598 min Scan# 1447

Delta R.T. -0.012 min

Lab File: BF135093.D

Acq: 05 Sep 2023 13:52

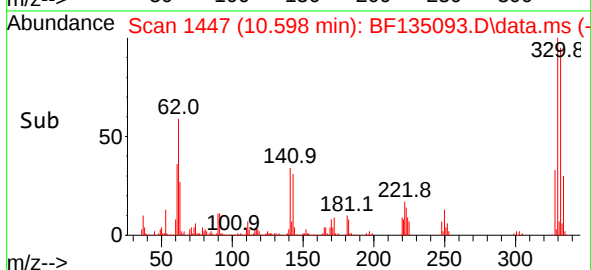
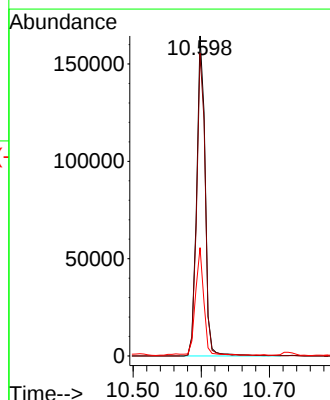
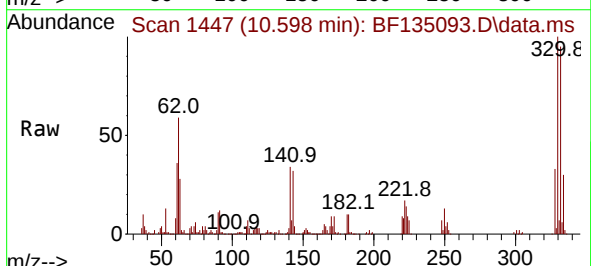
Tgt Ion:330 Resp: 142116

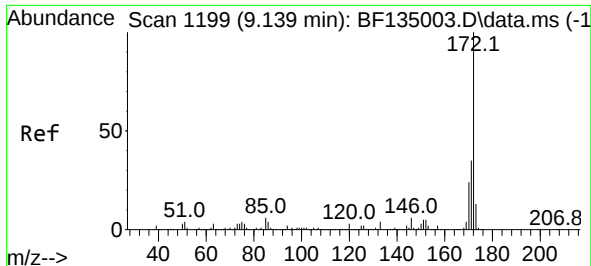
Ion Ratio Lower Upper

330 100

332 95.2 77.6 116.4

141 34.1 26.3 39.5





#45

2-Fluorobiphenyl

Concen: 61.531 ng

RT: 9.128 min Scan# 1199

Delta R.T. -0.012 min

Lab File: BF135093.D

Acq: 05 Sep 2023 13:52

Instrument :

BNA_F

ClientSampleId :

TP-20(2-3)

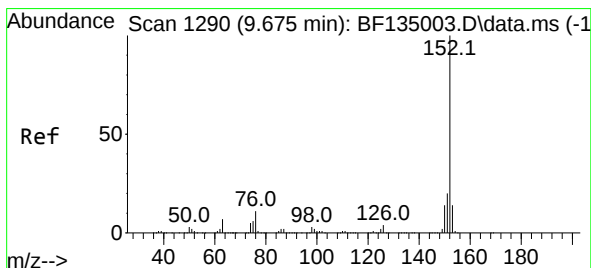
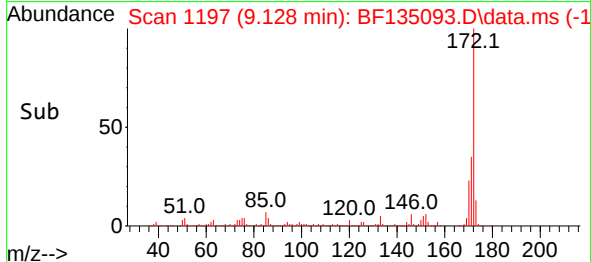
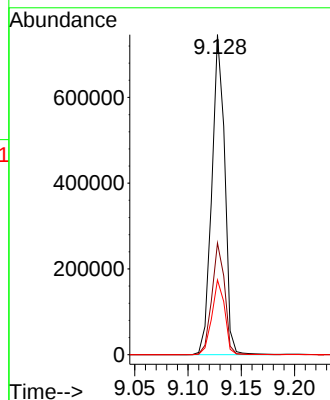
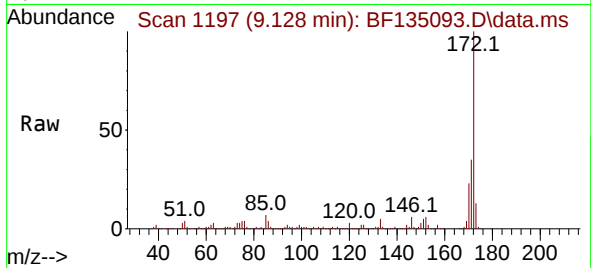
Tgt Ion:172 Resp: 628315

Ion Ratio Lower Upper

172 100

171 34.9 28.2 42.2

170 23.4 19.0 28.4



#49

Acenaphthylene

Concen: 3.446 ng

RT: 9.669 min Scan# 1289

Delta R.T. -0.006 min

Lab File: BF135093.D

Acq: 05 Sep 2023 13:52

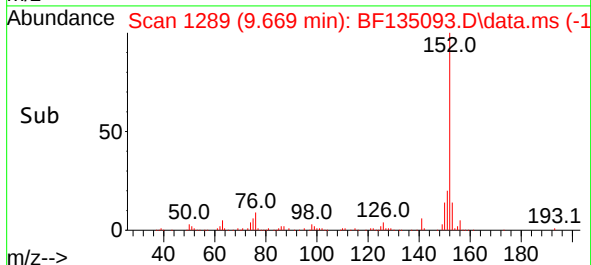
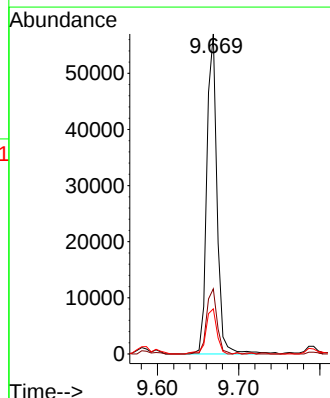
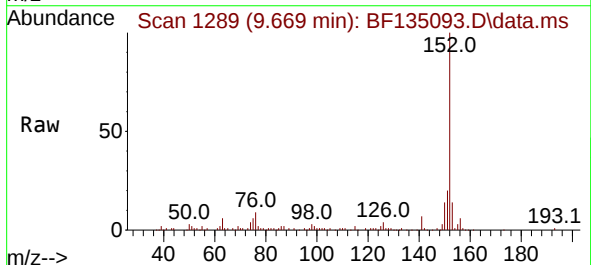
Tgt Ion:152 Resp: 49759

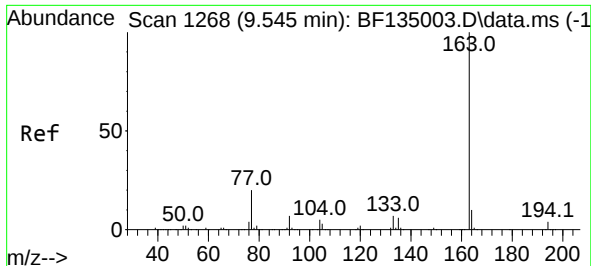
Ion Ratio Lower Upper

152 100

151 20.4 16.2 24.4

153 14.1 11.4 17.0

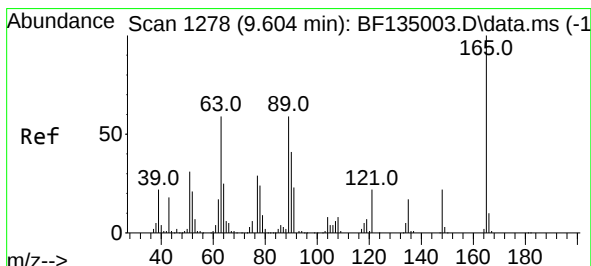
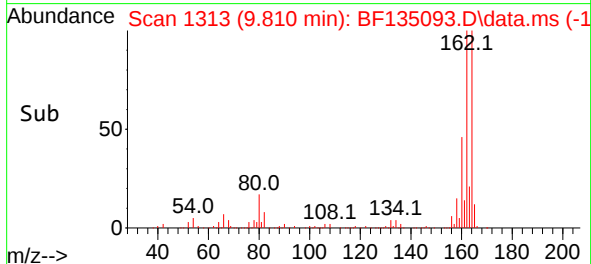
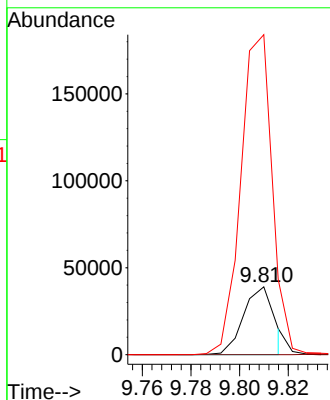
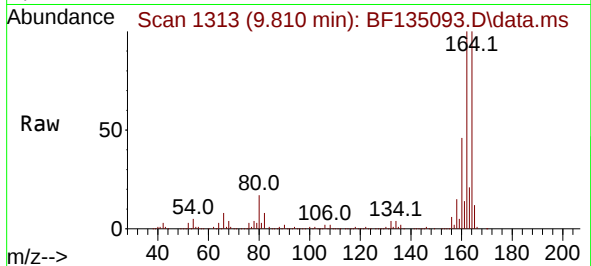




#50
Dimethylphthalate
Concen: 2.938 ng
RT: 9.810 min Scan# 11
Delta R.T. 0.265 min
Lab File: BF135093.D
Acq: 05 Sep 2023 13:52

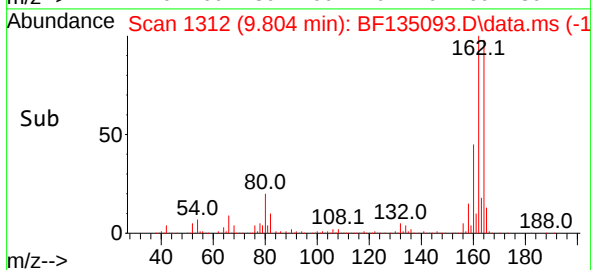
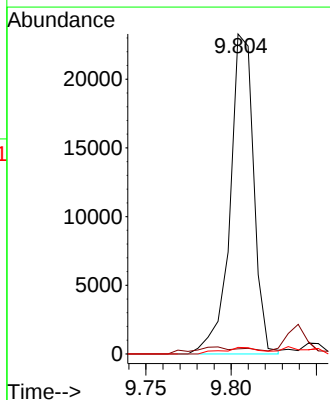
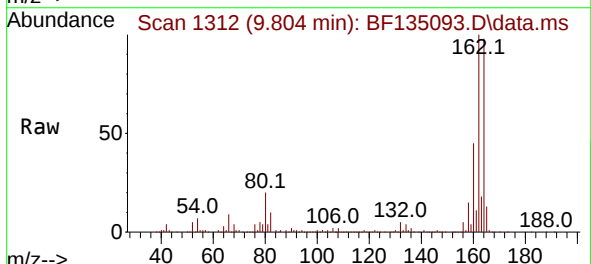
Instrument :
BNA_F
ClientSampleId :
TP-20(2-3)

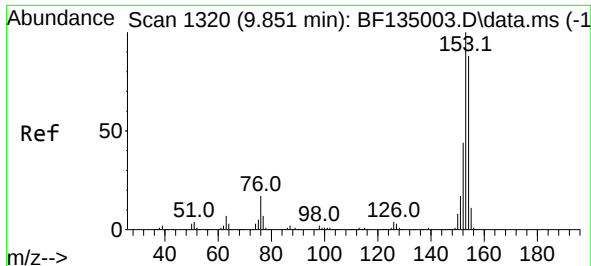
Tgt Ion:163 Resp: 34205
Ion Ratio Lower Upper
163 100
194 0.0 3.0 4.6#
164 471.5 8.1 12.1#



#51
2,6-Dinitrotoluene
Concen: 8.782 ng
RT: 9.804 min Scan# 1312
Delta R.T. 0.200 min
Lab File: BF135093.D
Acq: 05 Sep 2023 13:52

Tgt Ion:165 Resp: 22432
Ion Ratio Lower Upper
165 100
63 1.6 50.4 75.6#
89 2.1 47.1 70.7#

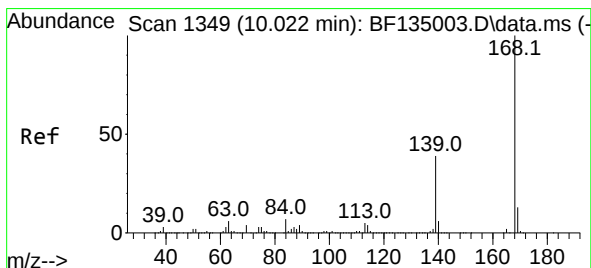
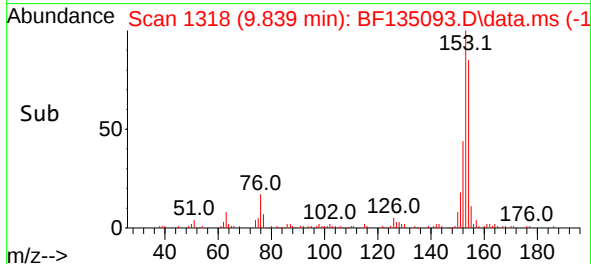
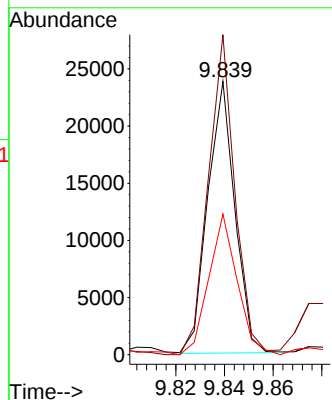
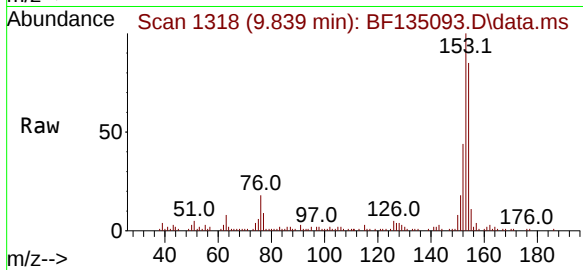




#52
Acenaphthene
Concen: 2.003 ng
RT: 9.839 min Scan# 1318
Delta R.T. -0.012 min
Lab File: BF135093.D
Acq: 05 Sep 2023 13:52

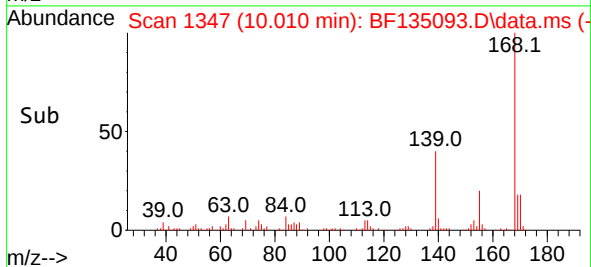
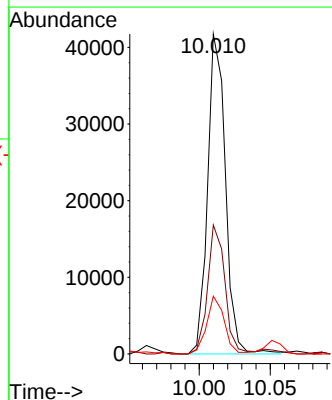
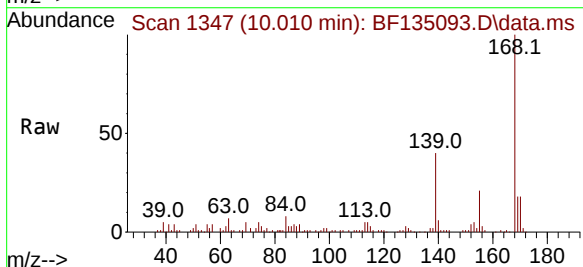
Instrument :
BNA_F
ClientSampleId :
TP-20(2-3)

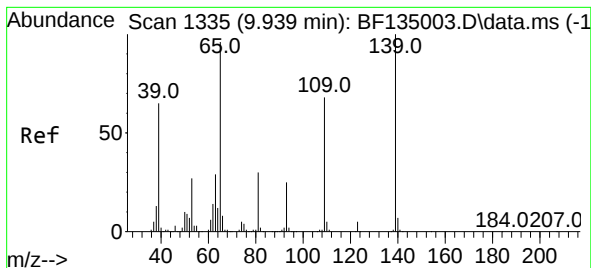
Tgt Ion:154 Resp: 18429
Ion Ratio Lower Upper
154 100
153 117.1 90.8 136.2
152 51.5 40.2 60.4



#55
Dibenzofuran
Concen: 2.746 ng
RT: 10.010 min Scan# 1347
Delta R.T. -0.012 min
Lab File: BF135093.D
Acq: 05 Sep 2023 13:52

Tgt Ion:168 Resp: 36445
Ion Ratio Lower Upper
168 100
139 40.3 31.5 47.3
169 18.0 10.7 16.1#





#56

4-Nitrophenol

Concen: 6.845 ng

RT: 10.010 min Scan# 11

Delta R.T. 0.071 min

Lab File: BF135093.D

Acq: 05 Sep 2023 13:52

Instrument :

BNA_F

ClientSampleId :

TP-20(2-3)

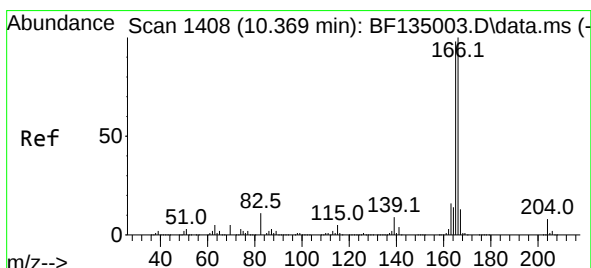
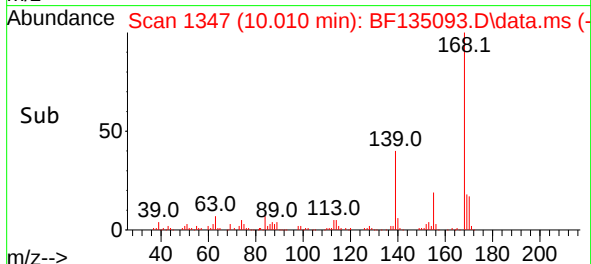
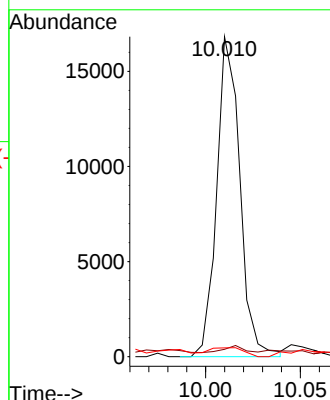
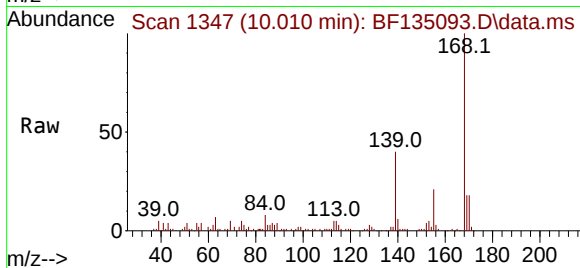
Tgt Ion:139 Resp: 14318

Ion Ratio Lower Upper

139 100

109 2.3 47.7 87.7#

65 2.7 75.9 115.9#



#58

Fluorene

Concen: 2.812 ng

RT: 10.357 min Scan# 1406

Delta R.T. -0.012 min

Lab File: BF135093.D

Acq: 05 Sep 2023 13:52

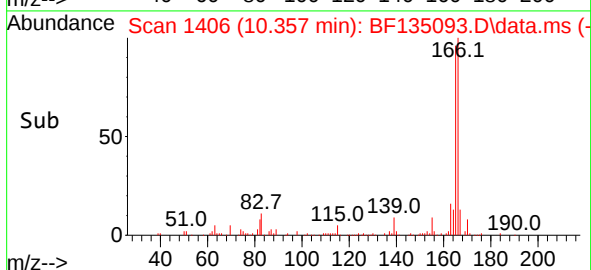
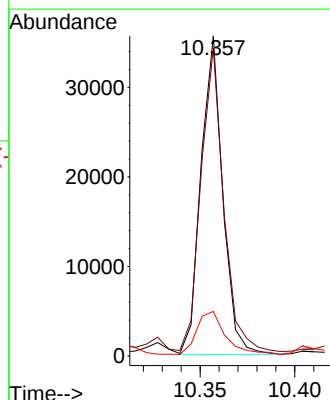
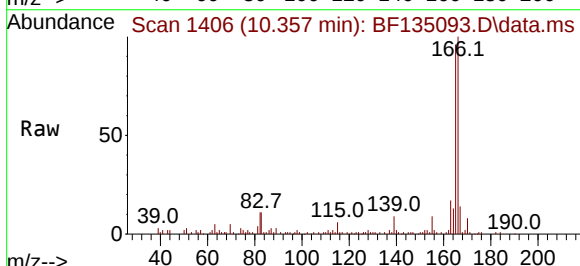
Tgt Ion:166 Resp: 28461

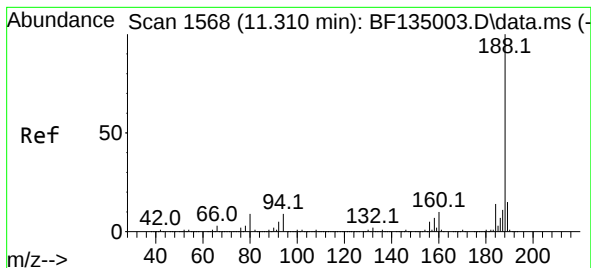
Ion Ratio Lower Upper

166 100

165 96.3 78.0 117.0

167 13.9 10.8 16.2





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.298 min Scan# 1

Delta R.T. -0.012 min

Lab File: BF135093.D

Acq: 05 Sep 2023 13:52

Instrument :

BNA_F

ClientSampleId :

TP-20(2-3)

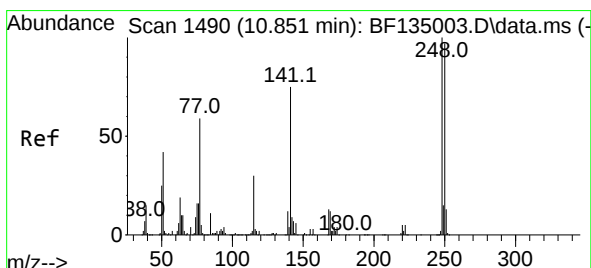
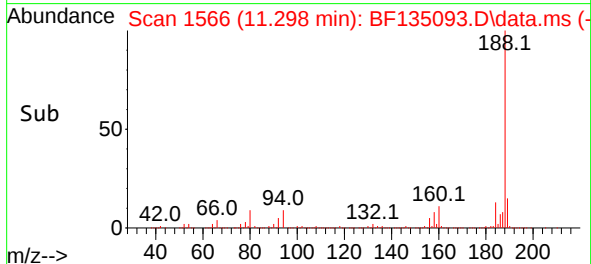
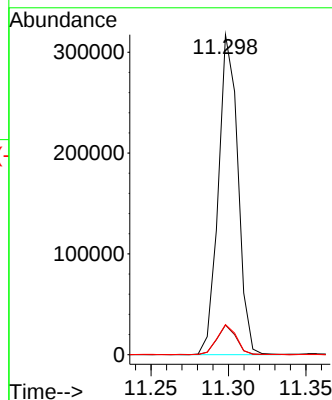
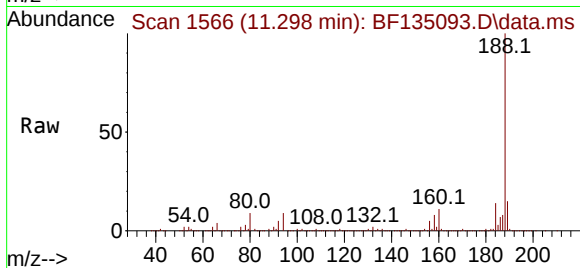
Tgt Ion:188 Resp: 278526

Ion Ratio Lower Upper

188 100

94 9.3 7.0 10.4

80 9.4 7.4 11.2



#67

4-Bromophenyl-phenylether

Concen: 3.068 ng

RT: 10.598 min Scan# 1447

Delta R.T. -0.253 min

Lab File: BF135093.D

Acq: 05 Sep 2023 13:52

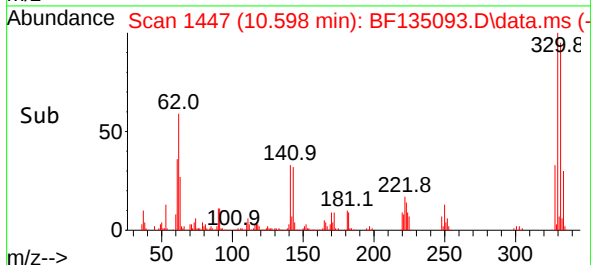
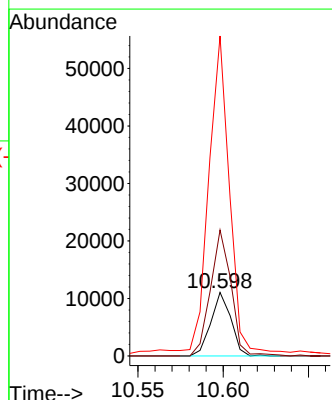
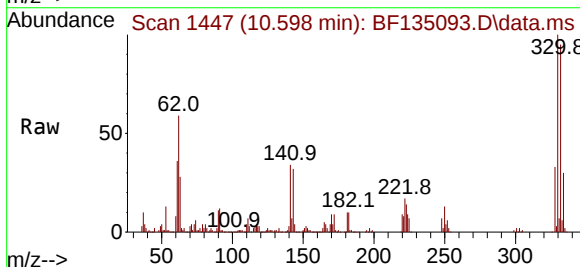
Tgt Ion:248 Resp: 9063

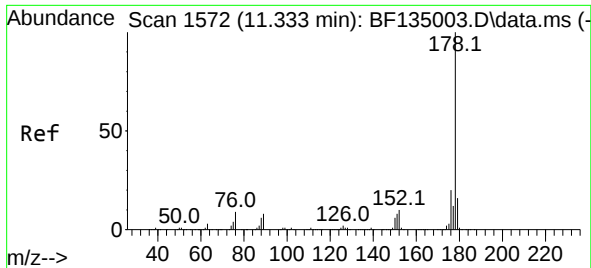
Ion Ratio Lower Upper

248 100

250 198.3 77.9 116.9#

141 504.0 59.8 89.8#

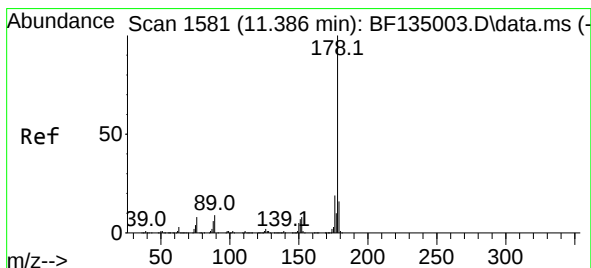
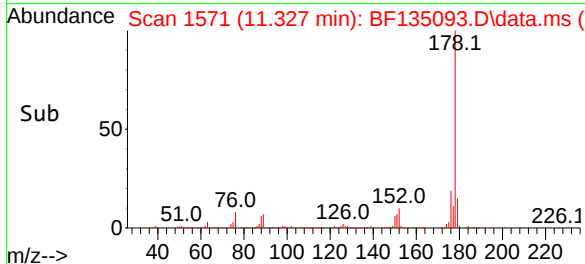
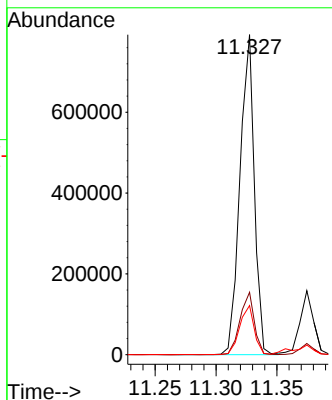
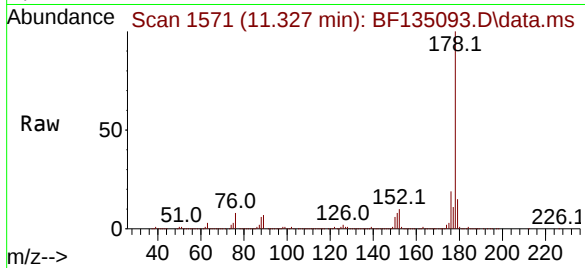




#71
Phenanthrene
Concen: 45.389 ng
RT: 11.327 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF135093.D
Acq: 05 Sep 2023 13:52

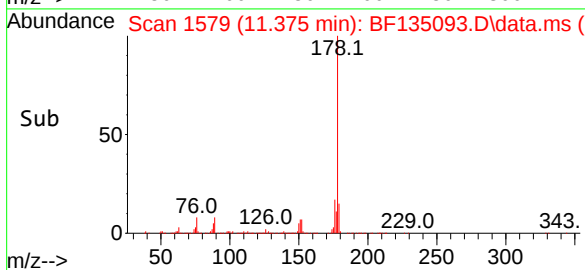
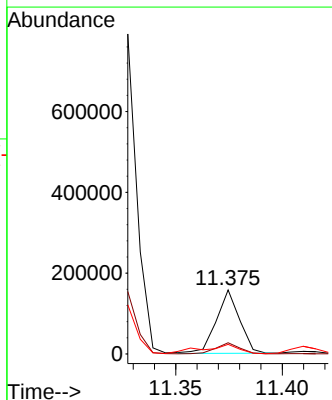
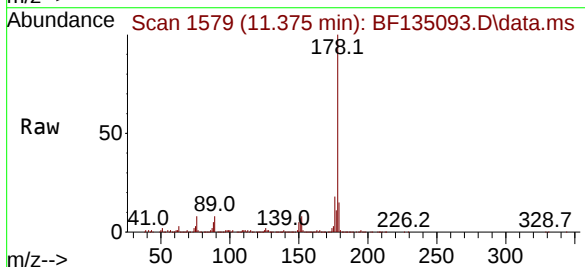
Instrument :
BNA_F
ClientSampleId :
TP-20(2-3)

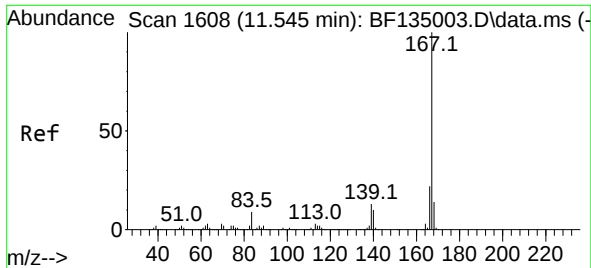
Tgt Ion:178 Resp: 652210
Ion Ratio Lower Upper
178 100
176 19.5 15.9 23.9
179 15.4 12.5 18.7



#72
Anthracene
Concen: 8.055 ng
RT: 11.375 min Scan# 1579
Delta R.T. -0.012 min
Lab File: BF135093.D
Acq: 05 Sep 2023 13:52

Tgt Ion:178 Resp: 118259
Ion Ratio Lower Upper
178 100
176 17.5 15.4 23.2
179 15.0 12.8 19.2

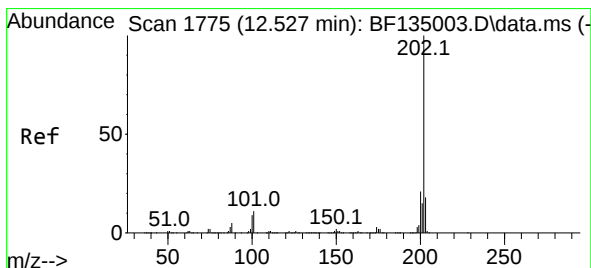
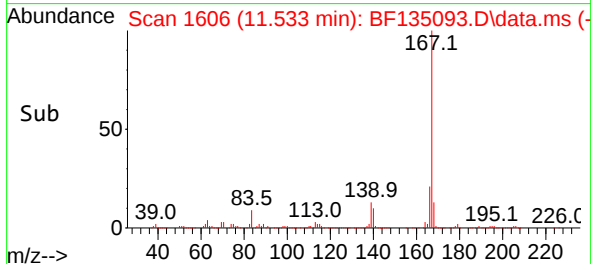
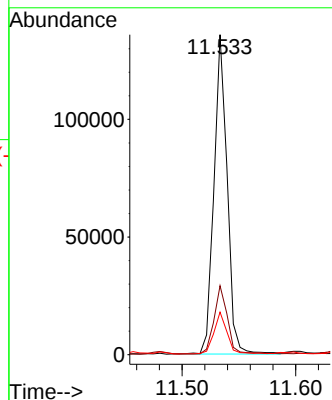
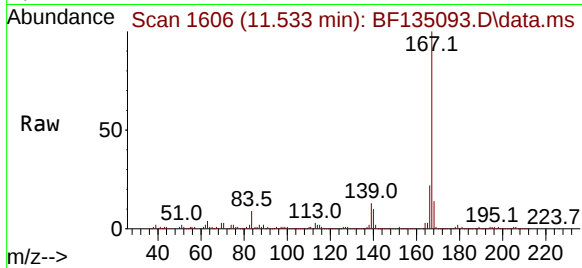




#73
 Carbazole
 Concen: 8.634 ng
 RT: 11.533 min Scan# 1606
 Delta R.T. -0.012 min
 Lab File: BF135093.D
 Acq: 05 Sep 2023 13:52

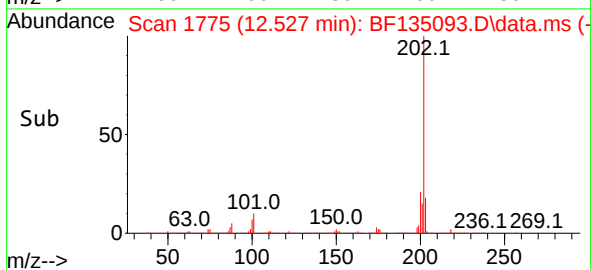
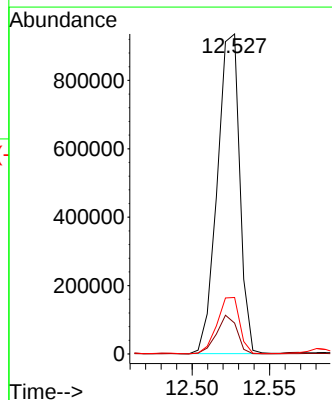
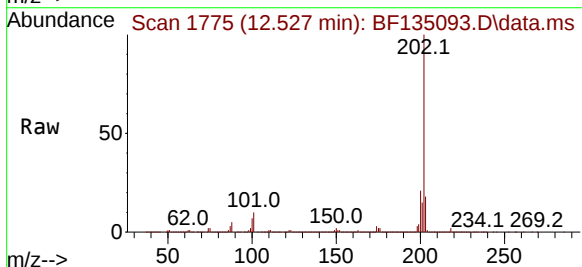
Instrument :
 BNA_F
 ClientSampleId :
 TP-20(2-3)

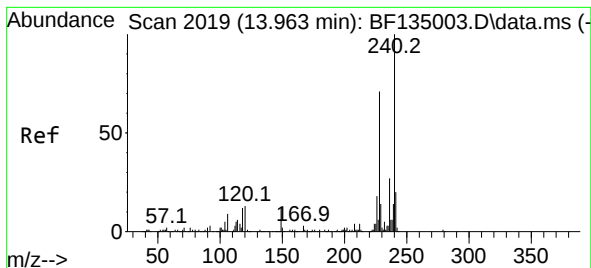
Tgt Ion:167 Resp: 109335
 Ion Ratio Lower Upper
 167 100
 166 21.5 17.4 26.2
 139 13.3 10.3 15.5



#75
 Fluoranthene
 Concen: 64.737 ng
 RT: 12.527 min Scan# 1775
 Delta R.T. 0.000 min
 Lab File: BF135093.D
 Acq: 05 Sep 2023 13:52

Tgt Ion:202 Resp: 940510
 Ion Ratio Lower Upper
 202 100
 101 9.7 0.0 31.5
 203 17.7 0.0 37.8





#76

Chrysene-d12

Concen: 20.000 ng

RT: 13.957 min Scan# 20

Delta R.T. -0.006 min

Lab File: BF135093.D

Acq: 05 Sep 2023 13:52

Instrument :

BNA_F

ClientSampleId :

TP-20(2-3)

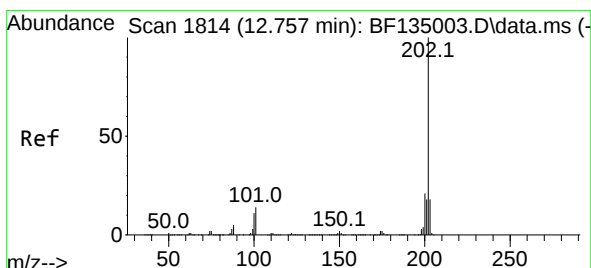
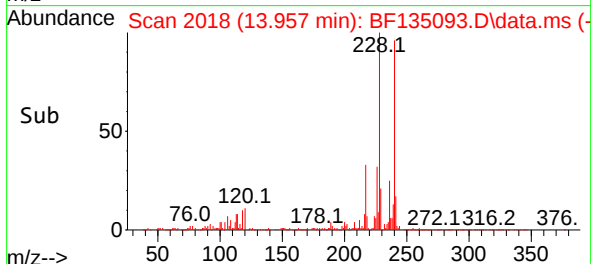
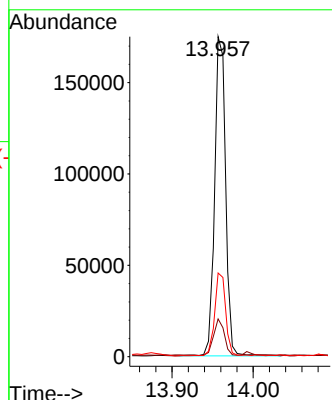
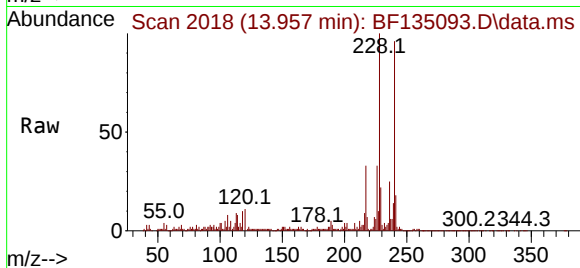
Tgt Ion:240 Resp: 164072

Ion Ratio Lower Upper

240 100

120 11.8 10.2 15.2

236 26.1 21.3 31.9



#78

Pyrene

Concen: 47.691 ng

RT: 12.751 min Scan# 1813

Delta R.T. -0.006 min

Lab File: BF135093.D

Acq: 05 Sep 2023 13:52

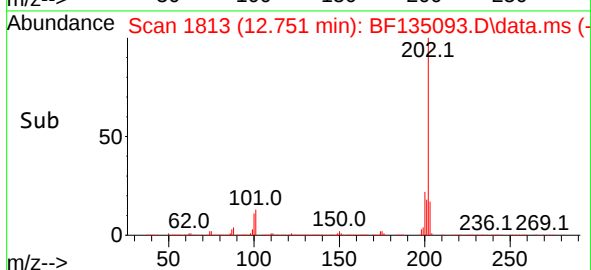
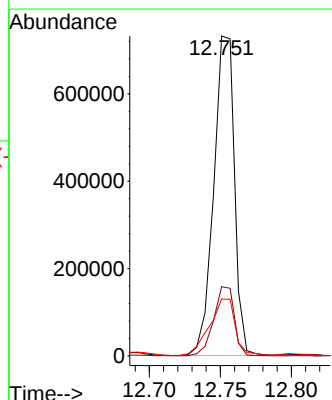
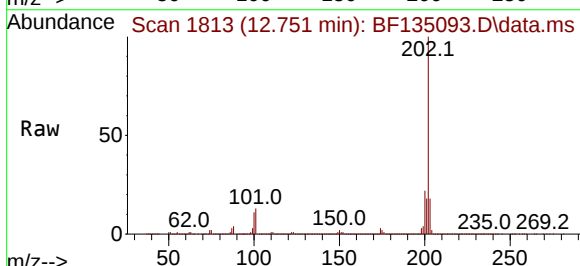
Tgt Ion:202 Resp: 742927

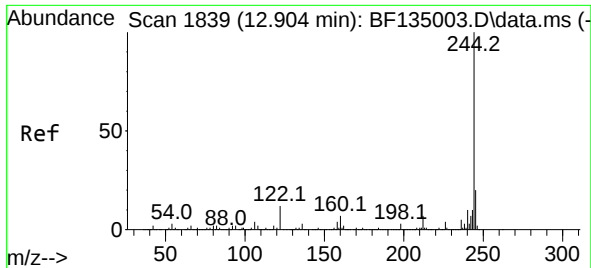
Ion Ratio Lower Upper

202 100

200 21.7 17.0 25.6

203 17.8 14.2 21.2

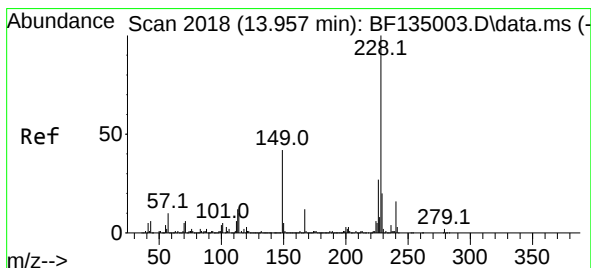
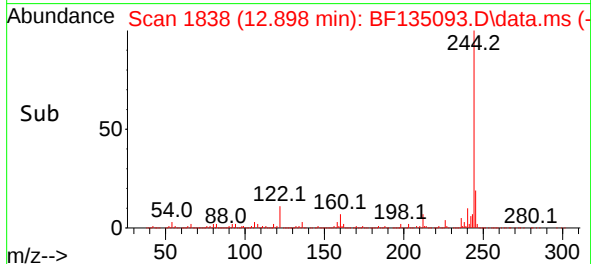
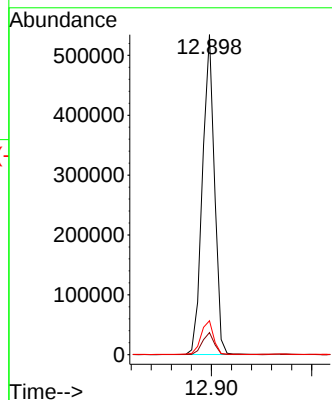
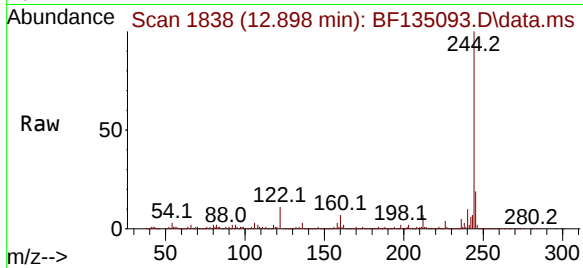




#79
 Terphenyl-d14
 Concen: 44.506 ng
 RT: 12.898 min Scan# 11
 Delta R.T. -0.006 min
 Lab File: BF135093.D
 Acq: 05 Sep 2023 13:52

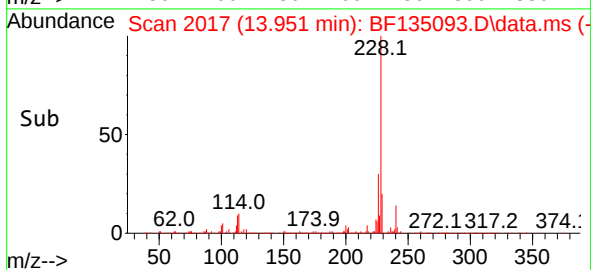
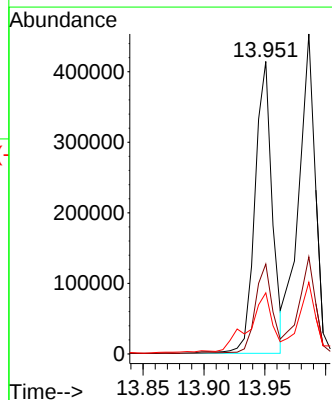
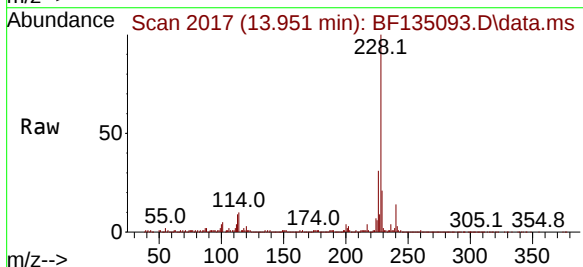
Instrument :
 BNA_F
 ClientSampleId :
 TP-20(2-3)

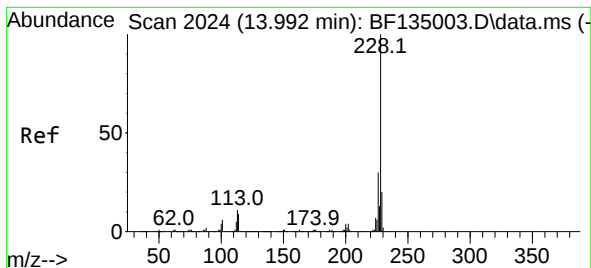
Tgt Ion:244 Resp: 447470
 Ion Ratio Lower Upper
 244 100
 212 6.9 5.6 8.4
 122 10.6 9.8 14.6



#81
 Benzo(a)anthracene
 Concen: 36.314 ng
 RT: 13.951 min Scan# 2017
 Delta R.T. -0.006 min
 Lab File: BF135093.D
 Acq: 05 Sep 2023 13:52

Tgt Ion:228 Resp: 406429
 Ion Ratio Lower Upper
 228 100
 226 30.7 21.6 32.4
 229 20.9 15.6 23.4





#83

Chrysene

Concen: 39.790 ng

RT: 13.986 min Scan# 20

Delta R.T. -0.006 min

Lab File: BF135093.D

Acq: 05 Sep 2023 13:52

Instrument :

BNA_F

ClientSampleId :

TP-20(2-3)

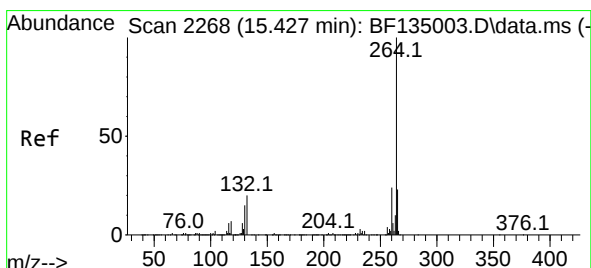
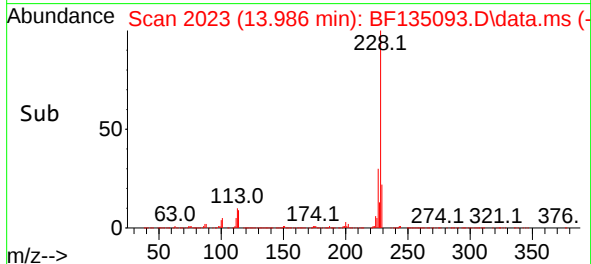
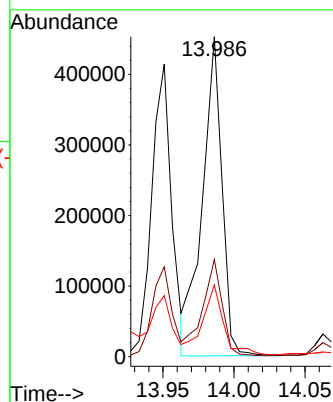
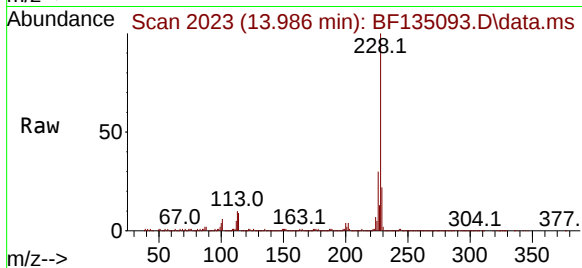
Tgt Ion:228 Resp: 437649

Ion Ratio Lower Upper

228 100

226 30.3 24.2 36.4

229 22.4 15.9 23.9



#86

Perylene-d12

Concen: 20.000 ng

RT: 15.433 min Scan# 2269

Delta R.T. 0.006 min

Lab File: BF135093.D

Acq: 05 Sep 2023 13:52

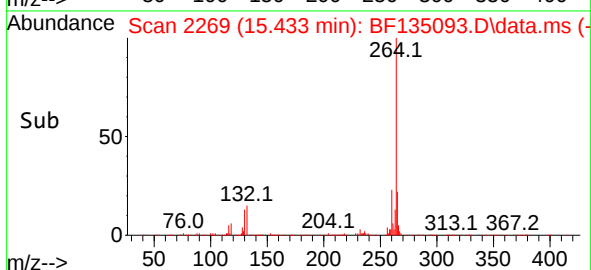
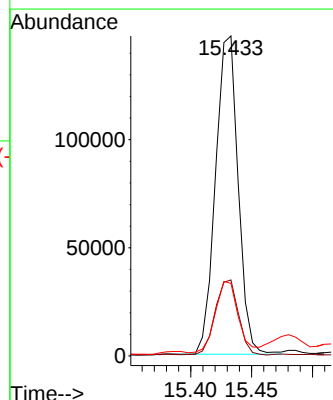
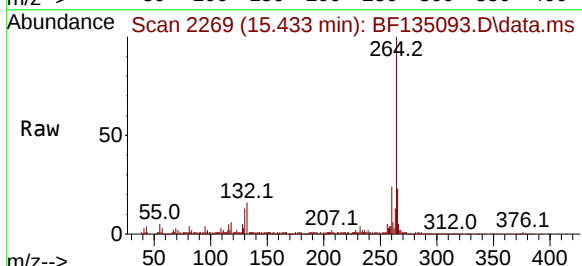
Tgt Ion:264 Resp: 190652

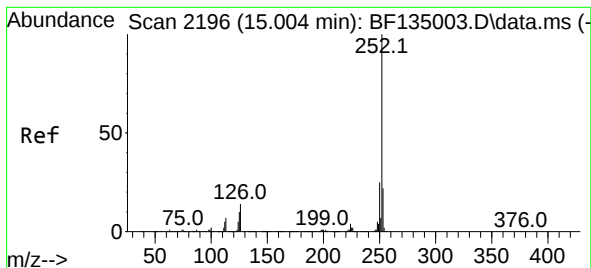
Ion Ratio Lower Upper

264 100

260 23.8 19.0 28.6

265 22.7 18.2 27.2





#88

Benzo(b)fluoranthene

Concen: 64.142 ng

RT: 15.010 min Scan# 2197

Delta R.T. 0.006 min

Lab File: BF135093.D

Acq: 05 Sep 2023 13:52

Instrument :

BNA_F

ClientSampleId :

TP-20(2-3)

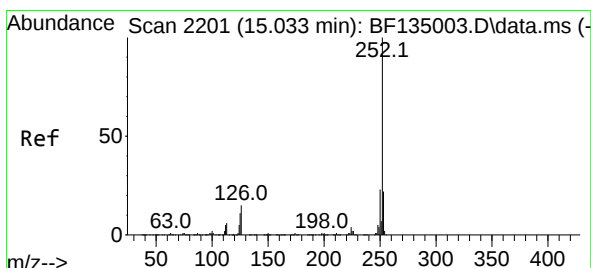
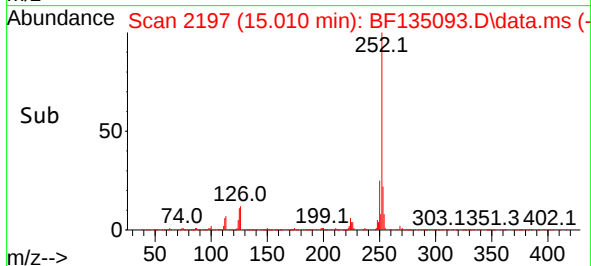
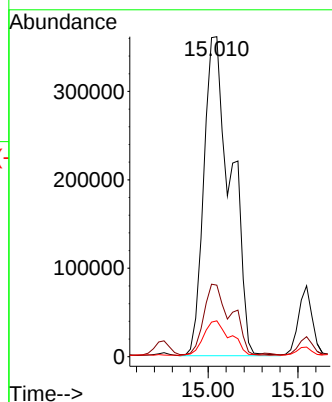
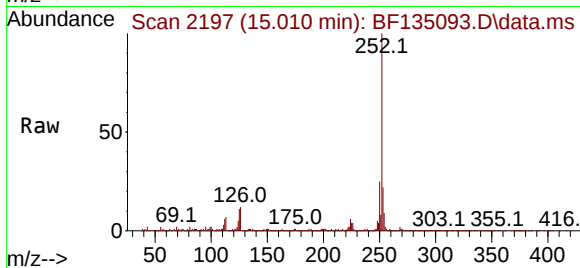
Tgt Ion:252 Resp: 760899

Ion Ratio Lower Upper

252 100

253 22.4 17.8 26.8

125 11.2 8.4 12.6



#89

Benzo(k)fluoranthene

Concen: 66.394 ng

RT: 15.010 min Scan# 2197

Delta R.T. -0.023 min

Lab File: BF135093.D

Acq: 05 Sep 2023 13:52

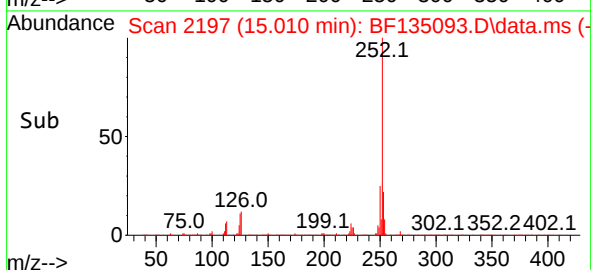
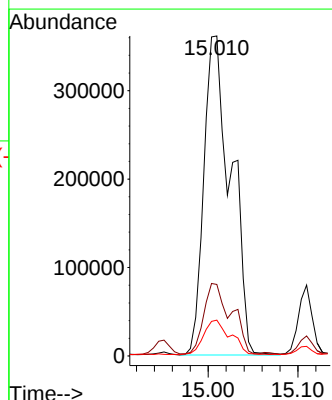
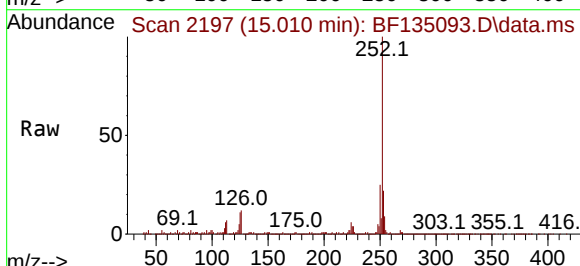
Tgt Ion:252 Resp: 760899

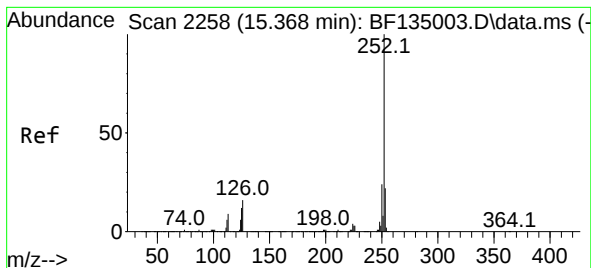
Ion Ratio Lower Upper

252 100

253 22.4 17.4 26.0

125 11.2 8.5 12.7





#90

Benzo(a)pyrene

Concen: 33.413 ng

RT: 15.368 min Scan# 21

Delta R.T. 0.000 min

Lab File: BF135093.D

Acq: 05 Sep 2023 13:52

Instrument :

BNA_F

ClientSampleId :

TP-20(2-3)

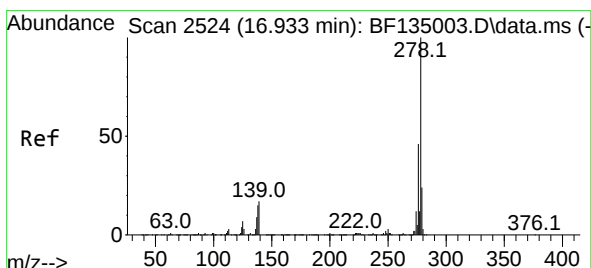
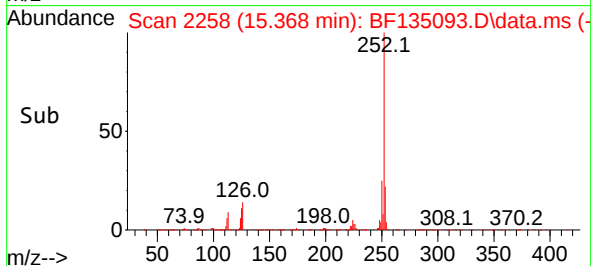
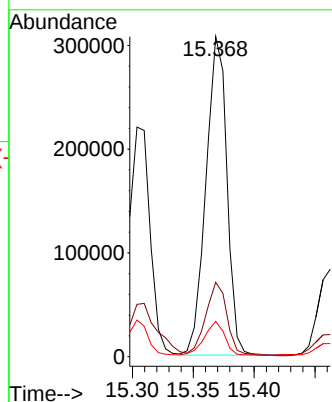
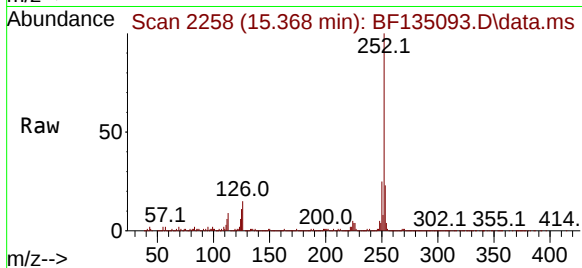
Tgt Ion:252 Resp: 368214

Ion Ratio Lower Upper

252 100

253 23.3 17.4 26.0

125 11.0 9.5 14.3



#91

Dibenzo(a,h)anthracene

Concen: 4.365 ng

RT: 17.092 min Scan# 2551

Delta R.T. 0.159 min

Lab File: BF135093.D

Acq: 05 Sep 2023 13:52

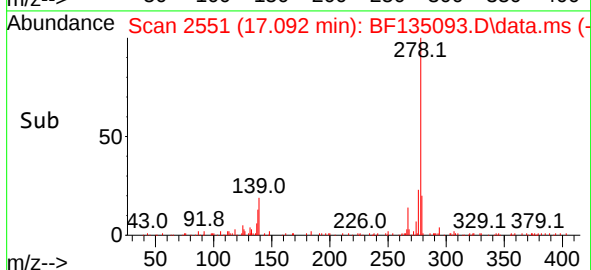
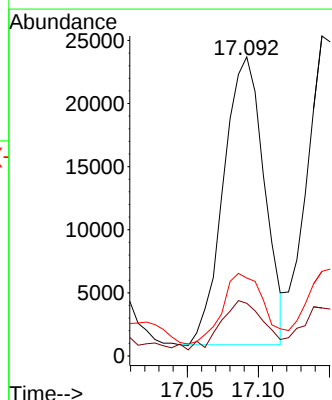
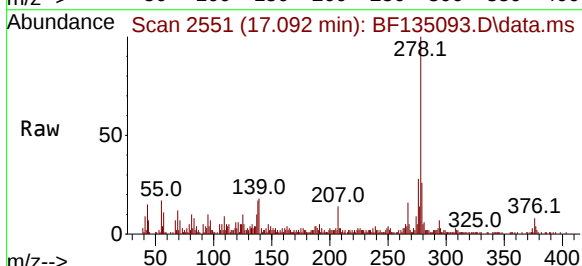
Tgt Ion:278 Resp: 45397

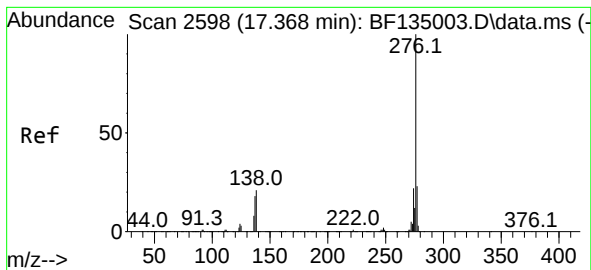
Ion Ratio Lower Upper

278 100

139 17.6 13.4 20.2

279 26.1 19.5 29.3





#92

Benzo(g,h,i)perylene

Concen: 19.720 ng

RT: 17.357 min Scan# 21

Delta R.T. -0.012 min

Lab File: BF135093.D

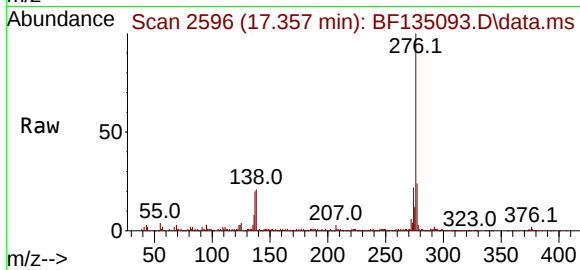
Acq: 05 Sep 2023 13:52

Instrument :

BNA_F

ClientSampleId :

TP-20(2-3)



Tgt Ion:276 Resp: 213316

Ion Ratio Lower Upper

276 100

277 23.8 18.5 27.7

138 21.4 17.1 25.7

