

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF100623\
 Data File : BF135638.D
 Acq On : 06 Oct 2023 20:01
 Operator : CG\JU
 Sample : 04622-02DL 100X
 Misc :
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Oct 07 01:52:01 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF091123.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Oct 04 17:06:20 2023
 Response via : Initial Calibration

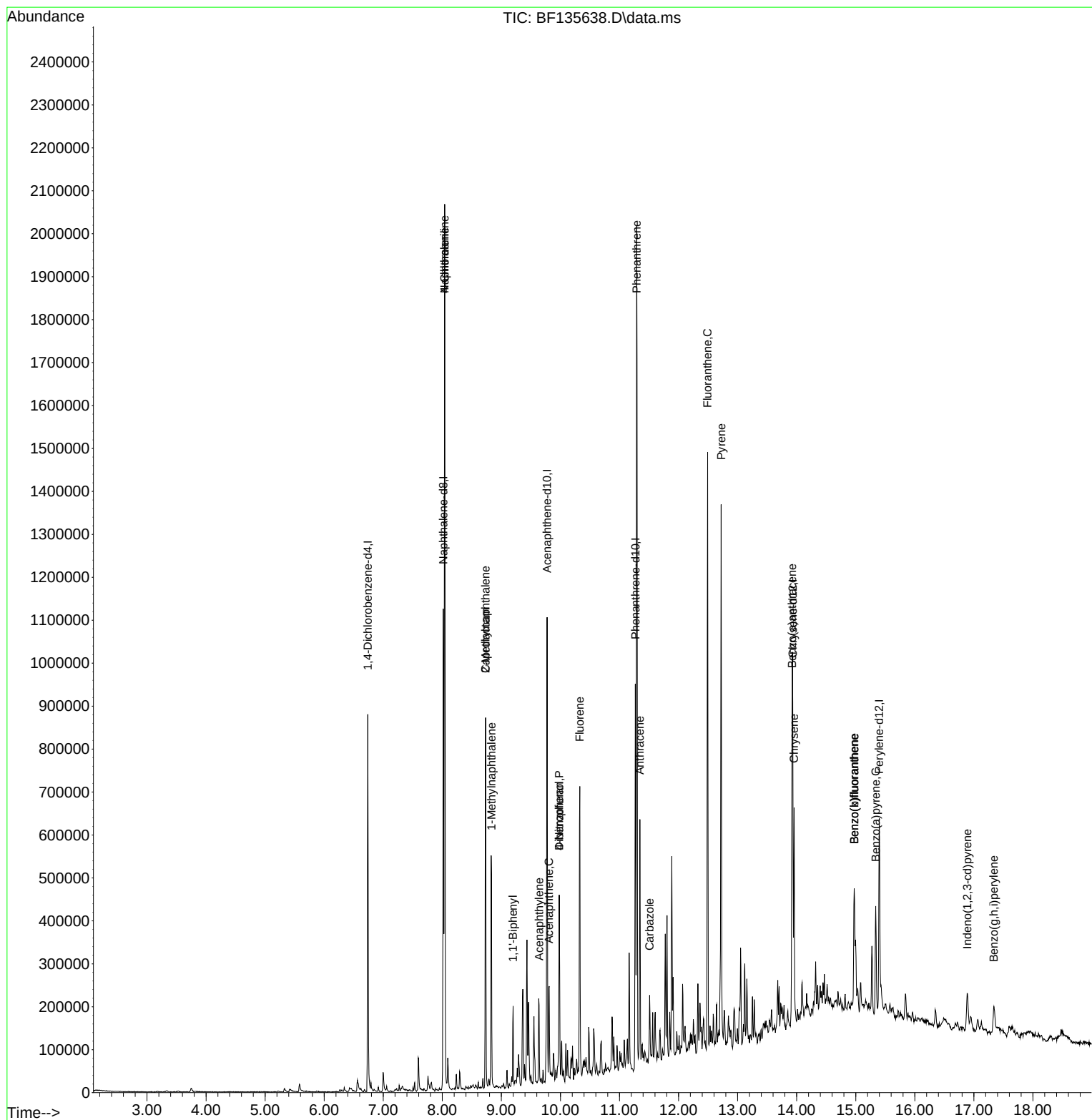
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.739	152	124367	20.000	ng	0.00
21) Naphthalene-d8	8.016	136	463898	20.000	ng	# 0.00
39) Acenaphthene-d10	9.774	164	196689	20.000	ng	0.00
64) Phenanthrene-d10	11.268	188	309521	20.000	ng	0.00
76) Chrysene-d12	13.933	240	217524	20.000	ng	0.00
86) Perylene-d12	15.398	264	203198	20.000	ng	0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.422	112	5175	0.677	ng	0.05
7) Phenol-d6	6.434	99	7721	0.794	ng	0.05
23) Nitrobenzene-d5	7.322	82	5420	0.635	ng	0.01
42) 2,4,6-Tribromophenol	10.580	330	1339	0.685	ng	0.01
45) 2-Fluorobiphenyl	9.098	172	12483	0.958	ng	0.00
79) Terphenyl-d14	12.863	244	9890	0.705	ng	0.00
Target Compounds						
						Qvalue
31) Naphthalene	8.039	128	786164	34.880	ng	99
33) 4-Chloroaniline	8.039	127	101968	10.311	ng	# 31
35) Caprolactam	8.733	113	4658	2.200	ng	# 1
37) 2-Methylnaphthalene	8.733	142	212694	14.038	ng	100
38) 1-Methylnaphthalene	8.833	142	144002	10.152	ng	97
46) 1,1'-Biphenyl	9.198	154	55546	3.675	ng	97
49) Acenaphthylene	9.639	152	53334	2.926	ng	97
52) Acenaphthene	9.804	154	46046	4.277	ng	98
55) Dibenzofuran	9.980	168	133083	8.100	ng	98
56) 4-Nitrophenol	9.980	139	50522	23.246	ng	# 5
58) Fluorene	10.327	166	192708	15.257	ng	97
71) Phenanthrene	11.292	178	720959	49.249	ng	99
72) Anthracene	11.345	178	197371	13.117	ng	99
73) Carbazole	11.510	167	51661	3.771	ng	98
75) Fluoranthene	12.492	202	528221	34.629	ng	99
78) Pyrene	12.721	202	477307	23.047	ng	99
81) Benzo(a)anthracene	13.921	228	221935	15.800	ng	98
83) Chrysene	13.957	228	174433	12.491	ng	98
87) Indeno(1,2,3-cd)pyrene	16.886	276	56136	4.213	ng	99
88) Benzo(b)fluoranthene	14.974	252	212345	19.304	ng	# 96
89) Benzo(k)fluoranthene	14.974	252	212345	19.542	ng	# 96
90) Benzo(a)pyrene	15.339	252	119387	11.381	ng	99
92) Benzo(g,h,i)perylene	17.339	276	52174	4.583	ng	95

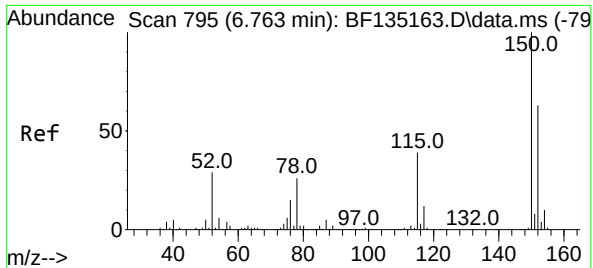
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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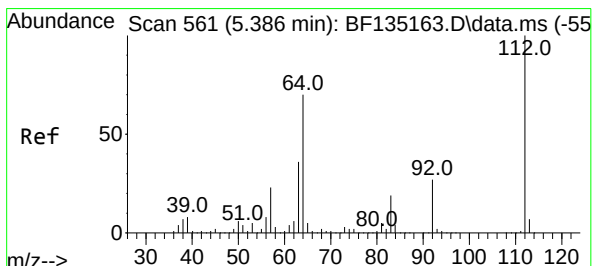
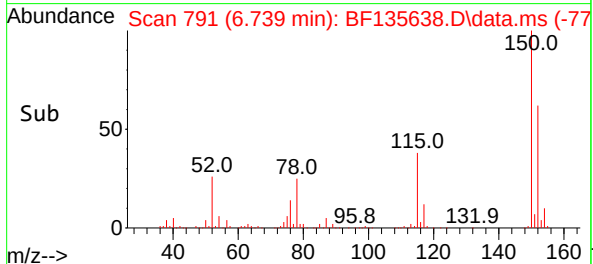
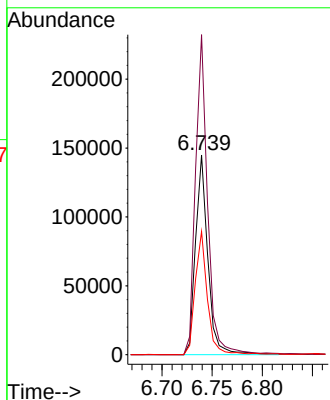
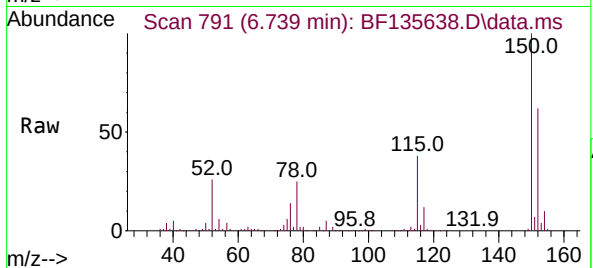




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.739 min Scan# 795
Delta R.T. 0.000 min
Lab File: BF135638.D
Acq: 06 Oct 2023 20:01

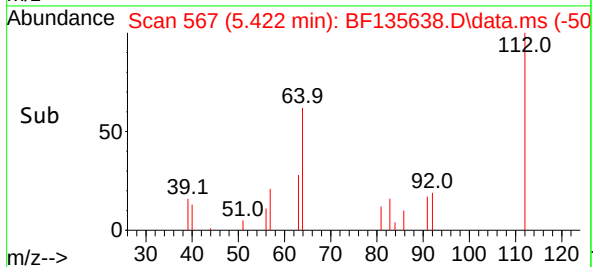
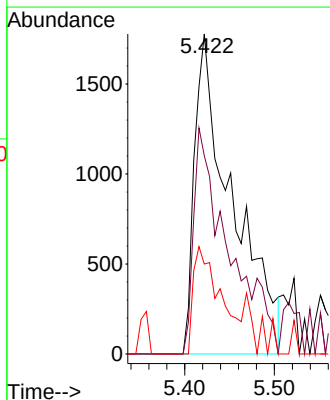
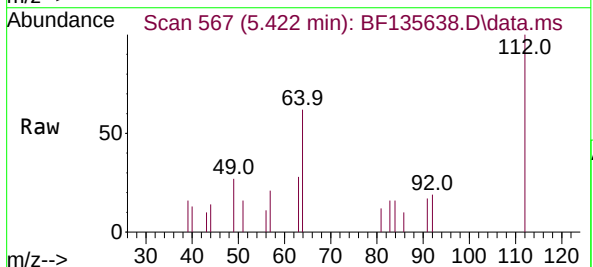
Instrument :
BNA_F
ClientSampleId :

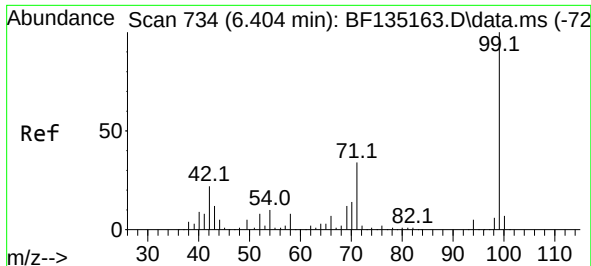
Tgt Ion:152 Resp: 124367
Ion Ratio Lower Upper
152 100
150 160.2 127.8 191.6
115 61.7 49.8 74.8



#5
2-Fluorophenol
Concen: 0.677 ng
RT: 5.422 min Scan# 567
Delta R.T. 0.053 min
Lab File: BF135638.D
Acq: 06 Oct 2023 20:01

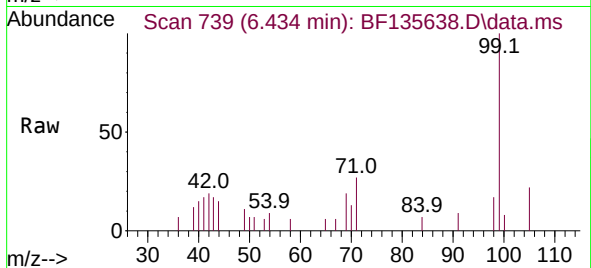
Tgt Ion:112 Resp: 5175
Ion Ratio Lower Upper
112 100
64 62.0 55.9 83.9
63 28.1 29.0 43.6#



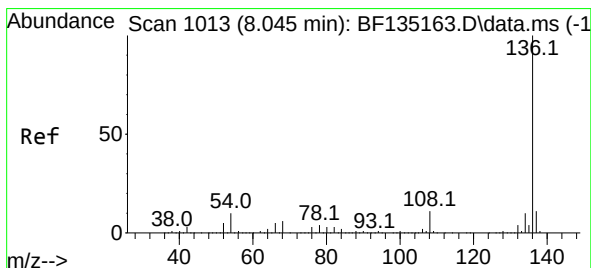
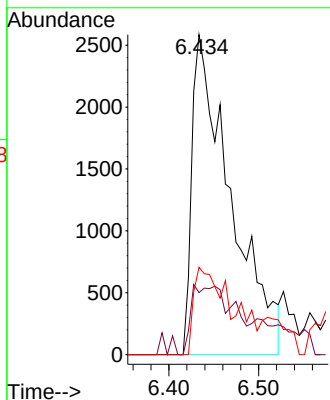
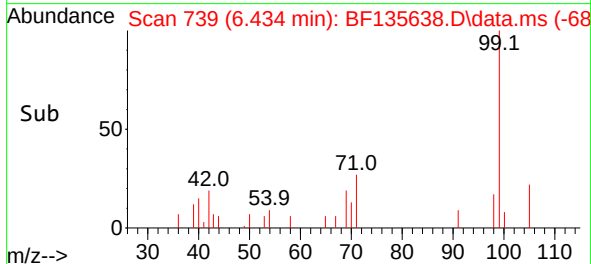


#7
Phenol-d6
Concen: 0.794 ng
RT: 6.434 min Scan# 71
Delta R.T. 0.047 min
Lab File: BF135638.D
Acq: 06 Oct 2023 20:01

Instrument :
BNA_F
ClientSampleId :

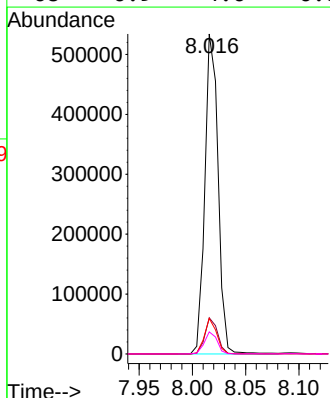
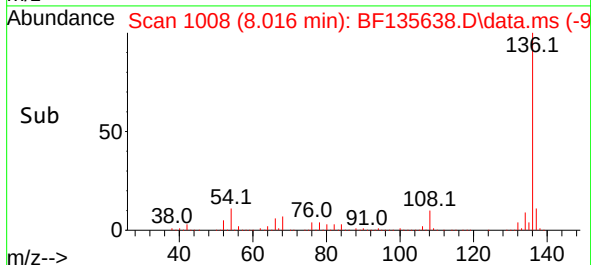
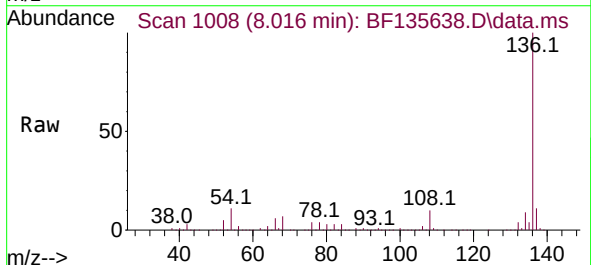


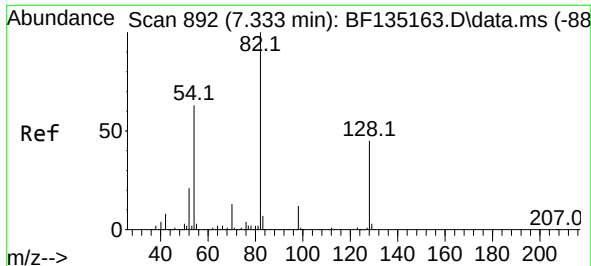
Tgt Ion:	99	Resp:	7721
Ion	Ratio	Lower	Upper
99	100		
42	19.4	17.9	26.9
71	27.3	27.0	40.6



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.016 min Scan# 1008
Delta R.T. -0.000 min
Lab File: BF135638.D
Acq: 06 Oct 2023 20:01

Tgt Ion:	136	Resp:	463898
Ion	Ratio	Lower	Upper
136	100		
137	11.3	8.8	13.2
54	11.1	7.7	11.5
68	6.9	4.6	6.8





#23

Nitrobenzene-d5

Concen: 0.635 ng

RT: 7.322 min Scan# 89

Delta R.T. 0.012 min

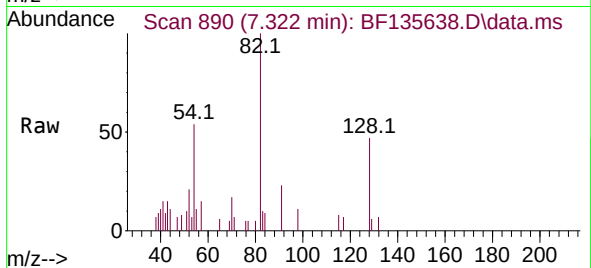
Lab File: BF135638.D

Acq: 06 Oct 2023 20:01

Instrument :

BNA_F

ClientSampleId :



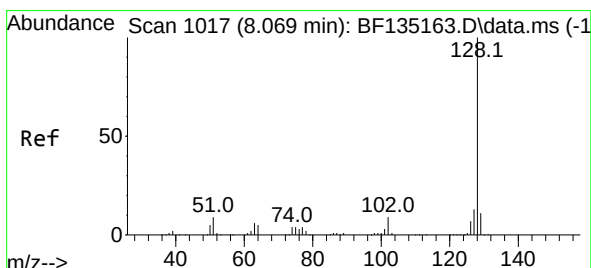
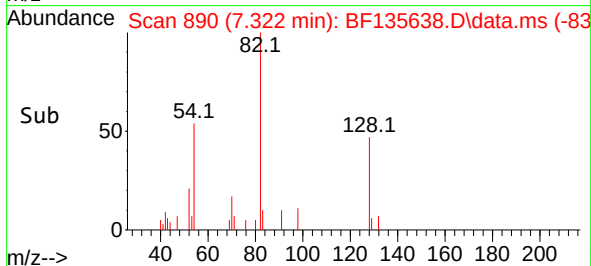
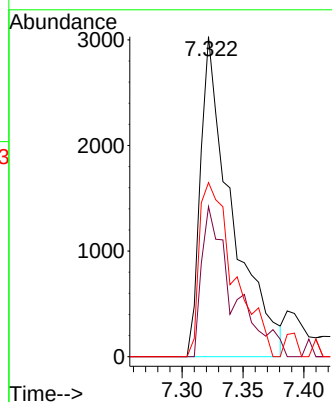
Tgt Ion: 82 Resp: 5420

Ion Ratio Lower Upper

82 100

128 46.9 35.8 53.6

54 54.4 50.6 76.0



#31

Naphthalene

Concen: 34.880 ng

RT: 8.039 min Scan# 1012

Delta R.T. -0.000 min

Lab File: BF135638.D

Acq: 06 Oct 2023 20:01

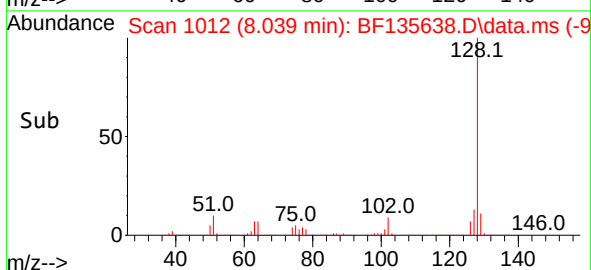
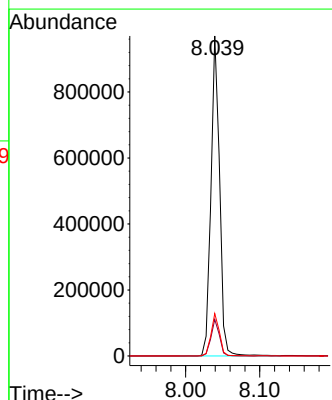
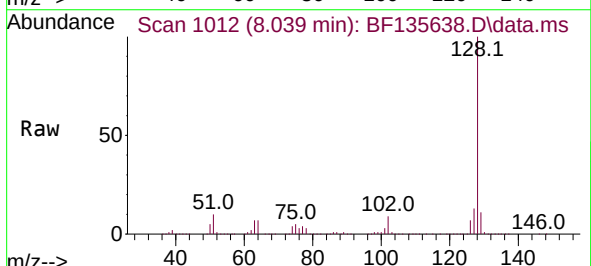
Tgt Ion: 128 Resp: 786164

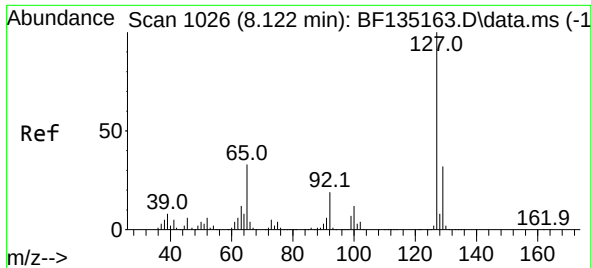
Ion Ratio Lower Upper

128 100

129 11.4 8.7 13.1

127 13.2 10.7 16.1

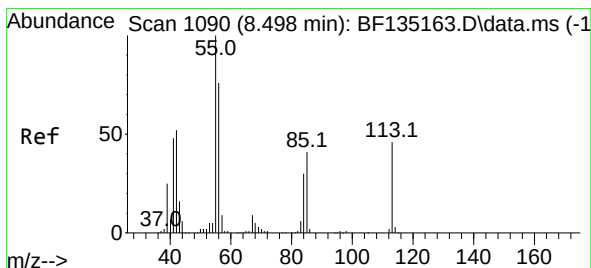
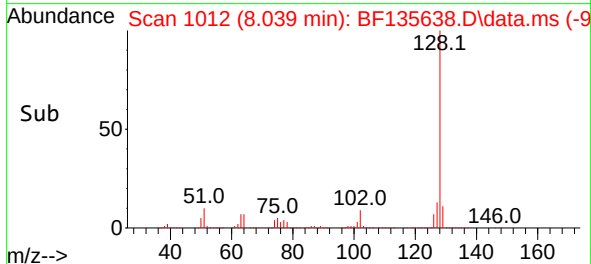
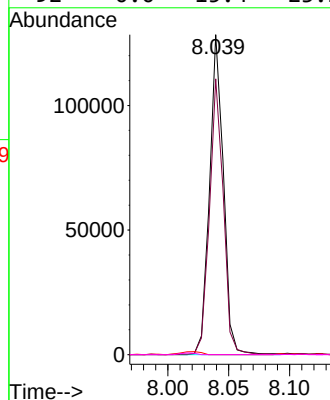
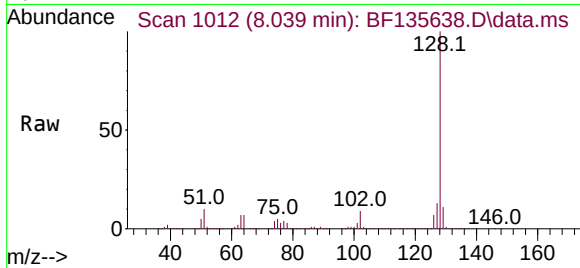




#33
4-Chloroaniline
Concen: 10.311 ng
RT: 8.039 min Scan# 110
Delta R.T. -0.059 min
Lab File: BF135638.D
Acq: 06 Oct 2023 20:01

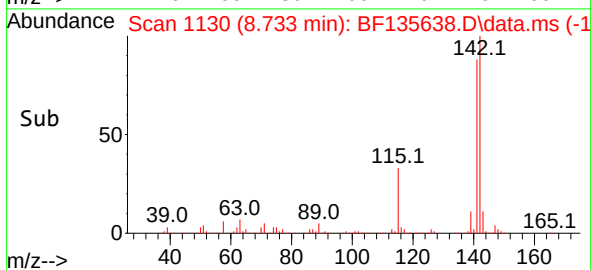
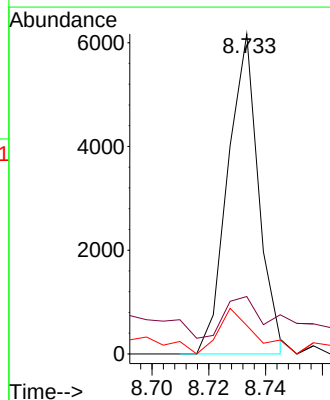
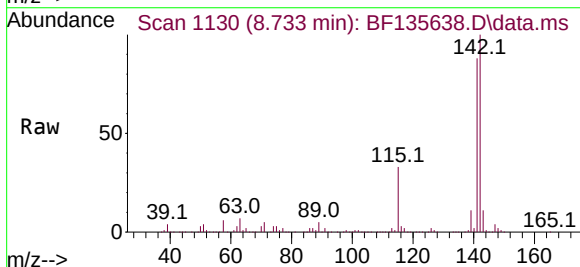
Instrument :
BNA_F
ClientSampleId :

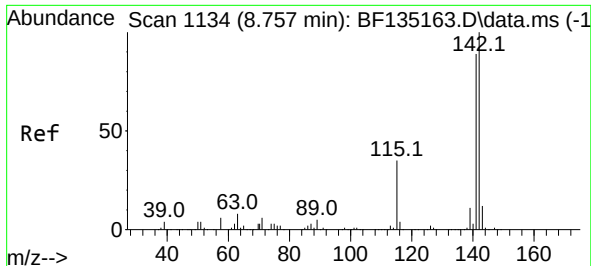
Tgt Ion:127	Resp: 101968
Ion Ratio	Lower Upper
127 100	
129 86.2	25.8 38.8#
65 0.0	26.6 39.8#
92 0.0	15.4 23.2#



#35
Caprolactam
Concen: 2.200 ng
RT: 8.733 min Scan# 1130
Delta R.T. 0.265 min
Lab File: BF135638.D
Acq: 06 Oct 2023 20:01

Tgt Ion:113	Resp: 4658
Ion Ratio	Lower Upper
113 100	
55 17.9	199.3 239.3#
56 8.9	146.3 186.3#





#37

2-Methylnaphthalene

Concen: 14.038 ng

RT: 8.733 min Scan# 1130

Delta R.T. -0.000 min

Lab File: BF135638.D

Acq: 06 Oct 2023 20:01

Instrument :

BNA_F

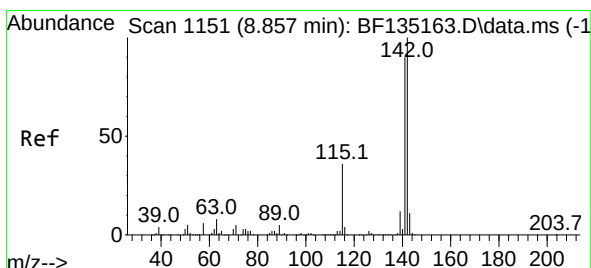
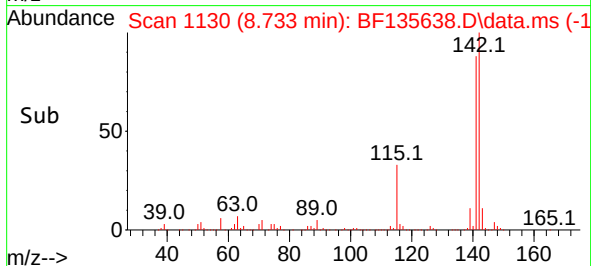
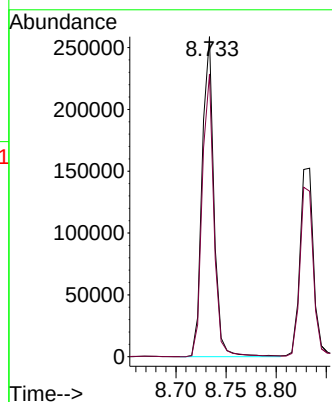
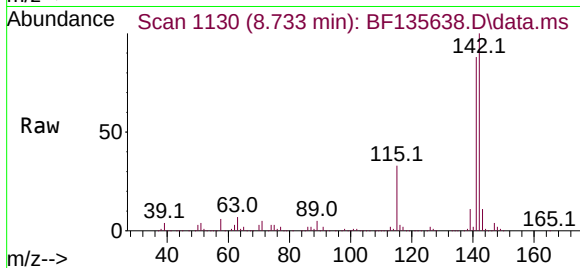
ClientSampleId :

Tgt Ion:142 Resp: 212694

Ion Ratio Lower Upper

142 100

141 88.4 71.0 106.6



#38

1-Methylnaphthalene

Concen: 10.152 ng

RT: 8.833 min Scan# 1147

Delta R.T. 0.006 min

Lab File: BF135638.D

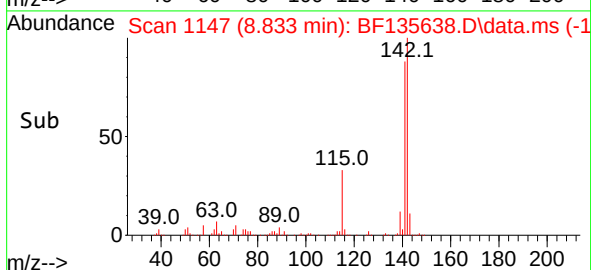
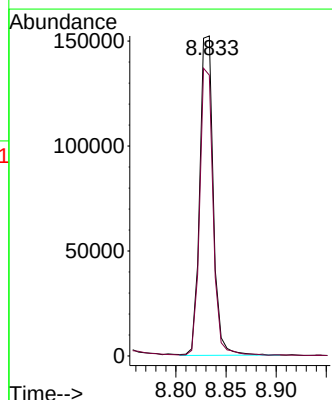
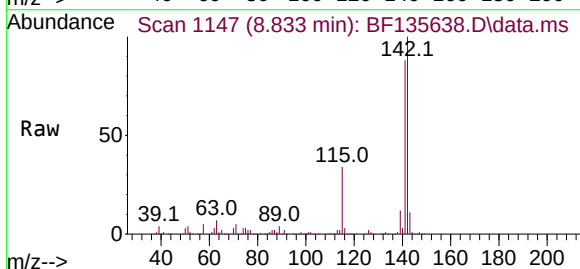
Acq: 06 Oct 2023 20:01

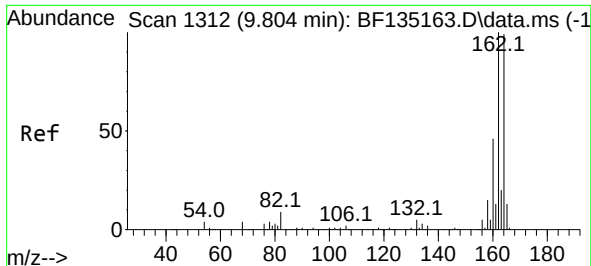
Tgt Ion:142 Resp: 144002

Ion Ratio Lower Upper

142 100

141 87.7 72.4 108.6





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.774 min Scan# 1

Delta R.T. -0.000 min

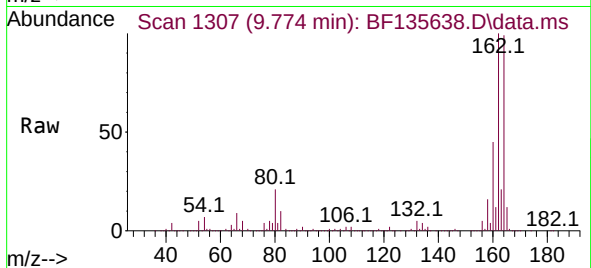
Lab File: BF135638.D

Acq: 06 Oct 2023 20:01

Instrument :

BNA_F

ClientSampleId :



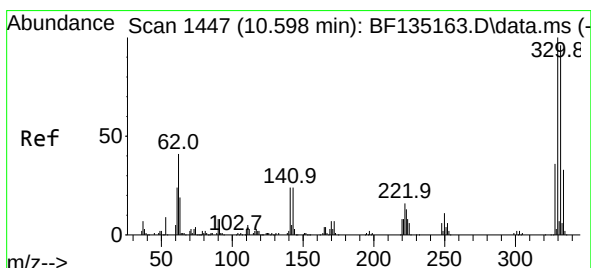
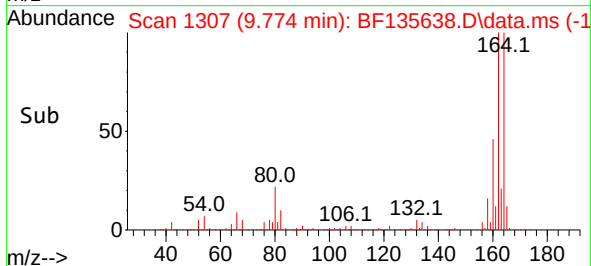
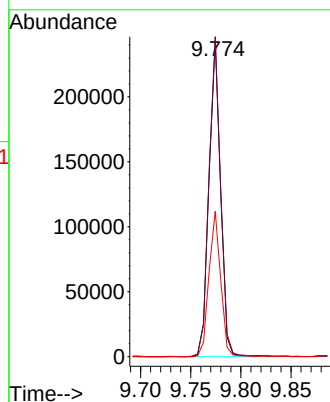
Tgt Ion:164 Resp: 196689

Ion Ratio Lower Upper

164 100

162 101.2 81.0 121.4

160 46.0 37.0 55.4



#42

2,4,6-Tribromophenol

Concen: 0.685 ng

RT: 10.580 min Scan# 1444

Delta R.T. 0.012 min

Lab File: BF135638.D

Acq: 06 Oct 2023 20:01

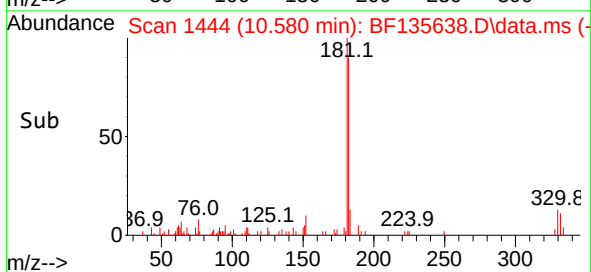
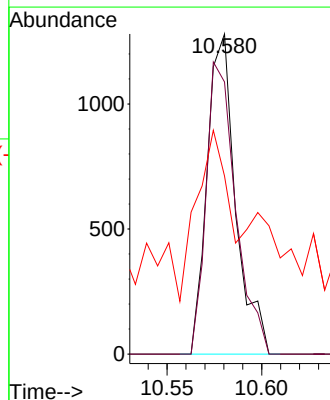
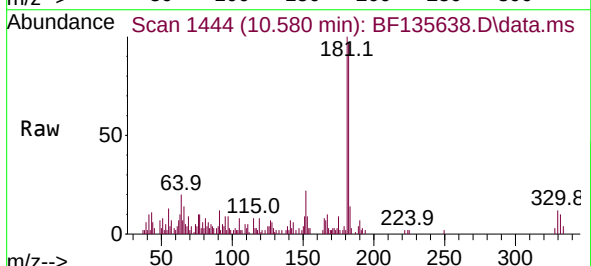
Tgt Ion:330 Resp: 1339

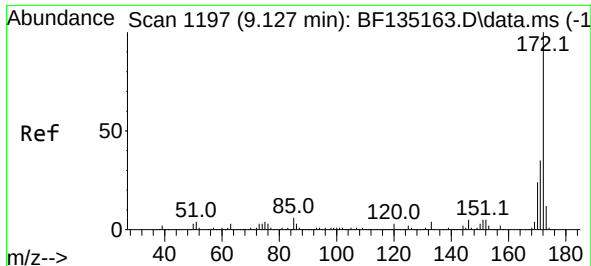
Ion Ratio Lower Upper

330 100

332 94.8 77.3 115.9

141 66.5 25.8 38.8#





#45

2-Fluorobiphenyl

Concen: 0.958 ng

RT: 9.098 min Scan# 1197

Delta R.T. -0.000 min

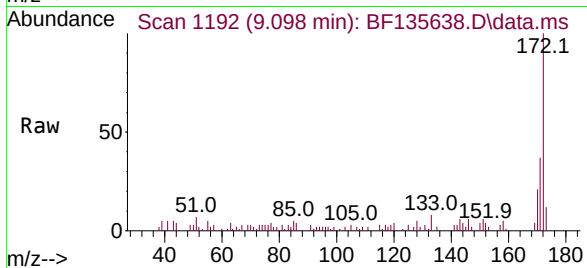
Lab File: BF135638.D

Acq: 06 Oct 2023 20:01

Instrument :

BNA_F

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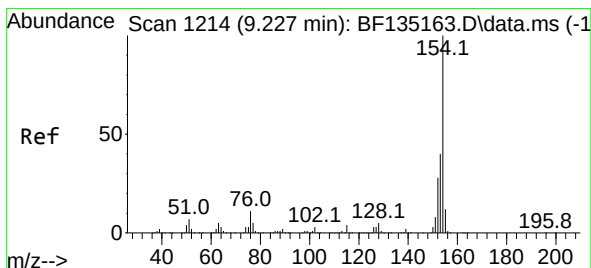
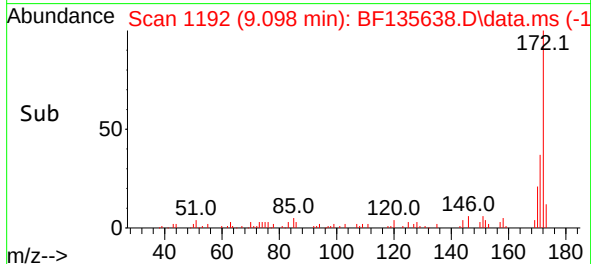
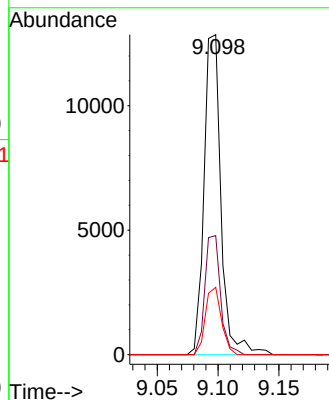
Tgt Ion:172 Resp: 12483

Ion Ratio Lower Upper

172 100

171 37.2 28.4 42.6

170 21.0 19.0 28.4



#46

1,1'-Biphenyl

Concen: 3.675 ng

RT: 9.198 min Scan# 1209

Delta R.T. -0.000 min

Lab File: BF135638.D

Acq: 06 Oct 2023 20:01

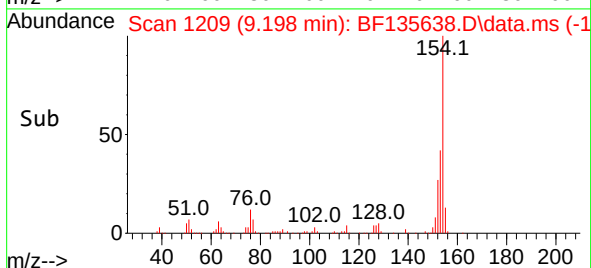
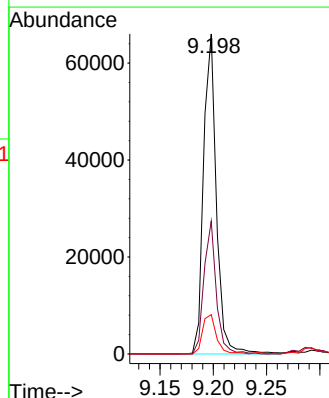
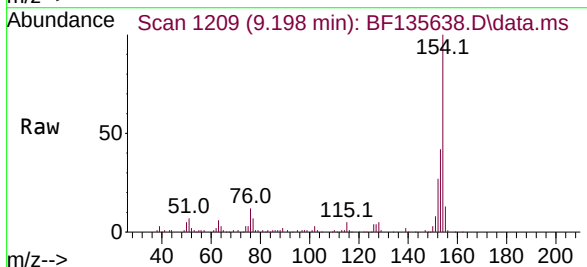
Tgt Ion:154 Resp: 55546

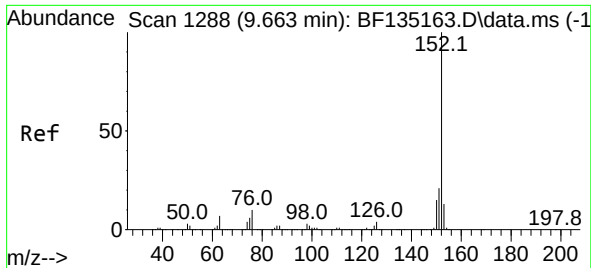
Ion Ratio Lower Upper

154 100

153 41.5 19.6 59.6

76 12.3 0.0 31.0





#49

Acenaphthylene

Concen: 2.926 ng

RT: 9.639 min Scan# 11

Delta R.T. -0.000 min

Lab File: BF135638.D

Acq: 06 Oct 2023 20:01

Instrument :

BNA_F

ClientSampleId :

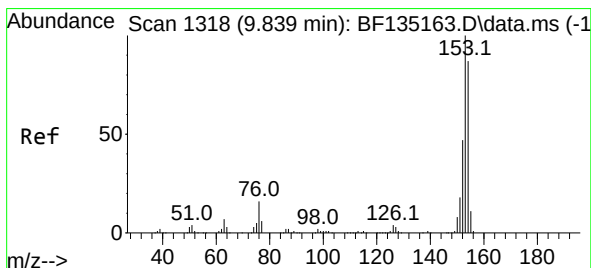
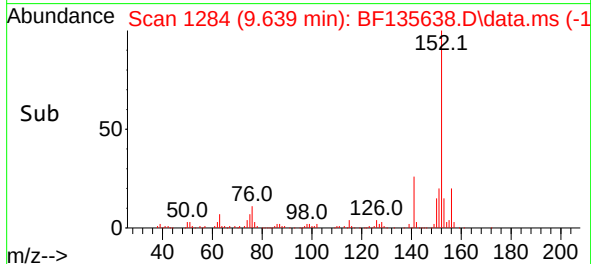
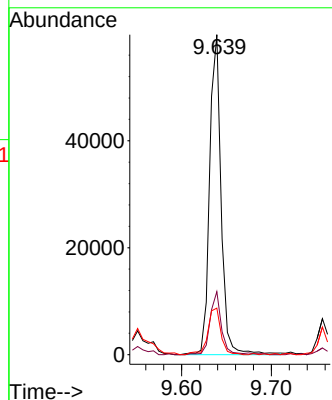
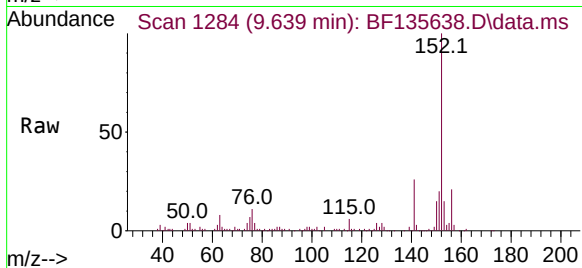
Tgt Ion:152 Resp: 53334

Ion Ratio Lower Upper

152 100

151 19.7 16.4 24.6

153 14.5 10.4 15.6



#52

Acenaphthene

Concen: 4.277 ng

RT: 9.804 min Scan# 1312

Delta R.T. -0.006 min

Lab File: BF135638.D

Acq: 06 Oct 2023 20:01

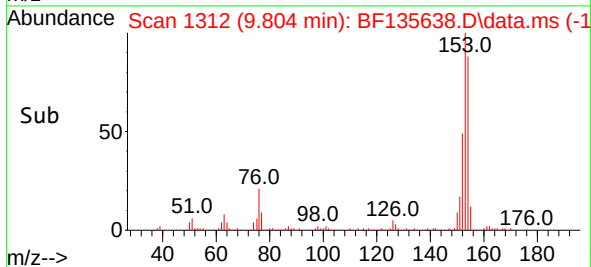
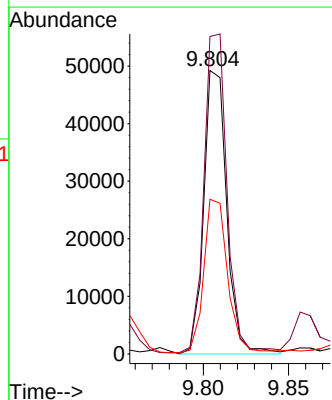
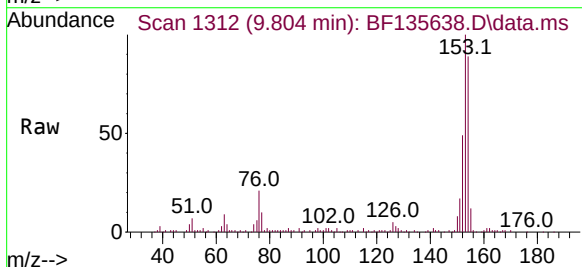
Tgt Ion:154 Resp: 46046

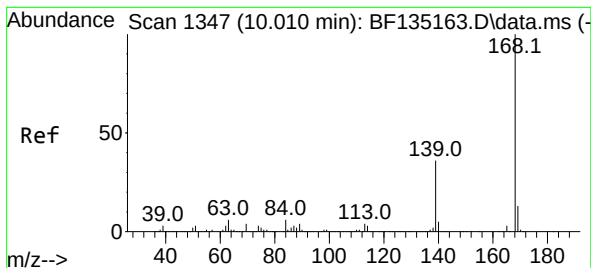
Ion Ratio Lower Upper

154 100

153 112.0 92.1 138.1

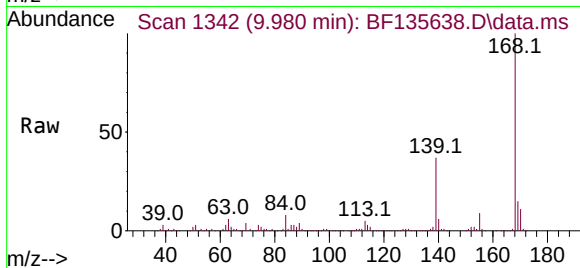
152 54.6 43.1 64.7



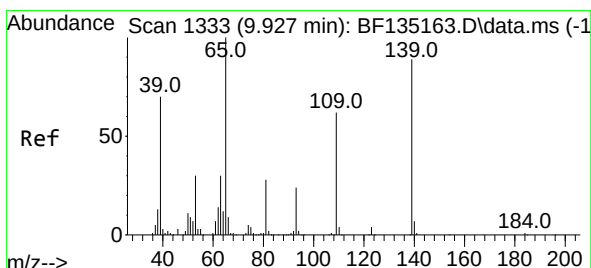
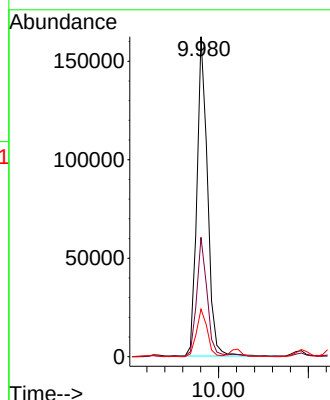
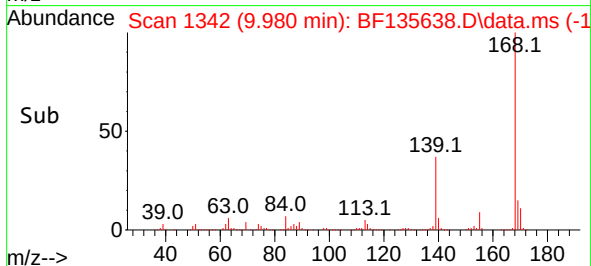


#55
Dibenzenofuran
Concen: 8.100 ng
RT: 9.980 min Scan# 1342
Delta R.T. -0.000 min
Lab File: BF135638.D
Acq: 06 Oct 2023 20:01

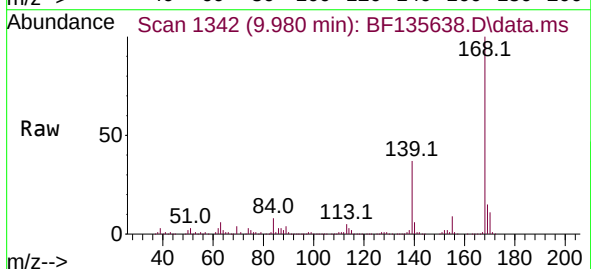
Instrument :
BNA_F
ClientSampleId :



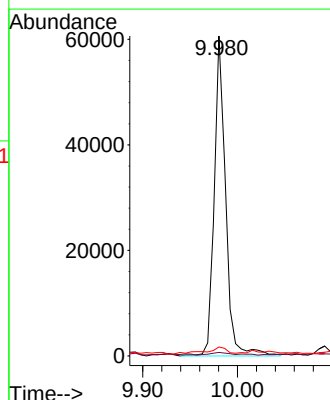
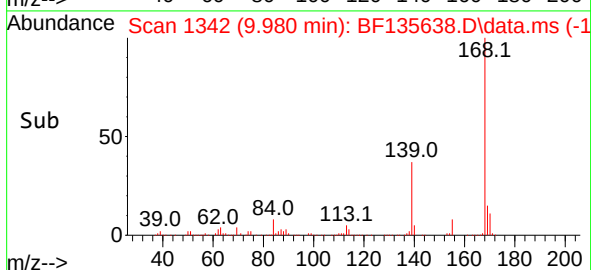
Tgt Ion:168 Resp: 133083
Ion Ratio Lower Upper
168 100
139 37.3 29.0 43.6
169 14.8 10.4 15.6

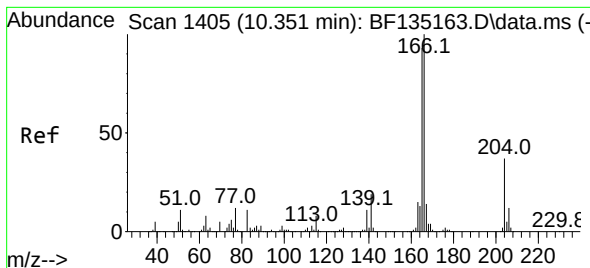


#56
4-Nitrophenol
Concen: 23.246 ng
RT: 9.980 min Scan# 1342
Delta R.T. 0.053 min
Lab File: BF135638.D
Acq: 06 Oct 2023 20:01



Tgt Ion:139 Resp: 50522
Ion Ratio Lower Upper
139 100
109 1.1 49.8 89.8#
65 2.8 92.7 132.7#





#58

Fluorene

Concen: 15.257 ng

RT: 10.327 min Scan# 1405

Delta R.T. -0.000 min

Lab File: BF135638.D

Acq: 06 Oct 2023 20:01

Instrument :

BNA_F

ClientSampleId :

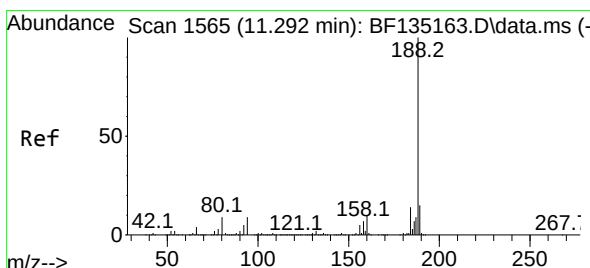
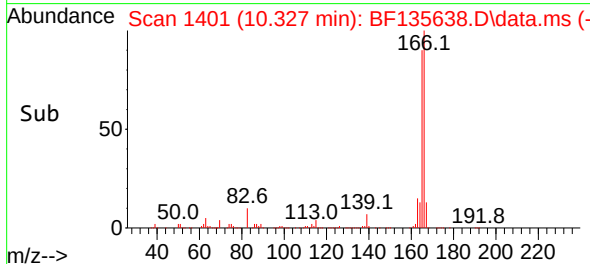
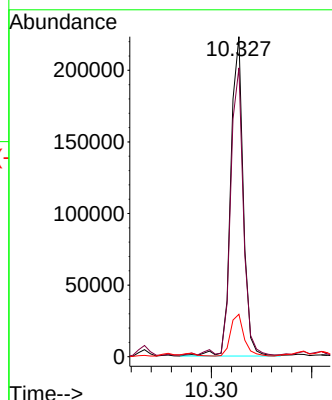
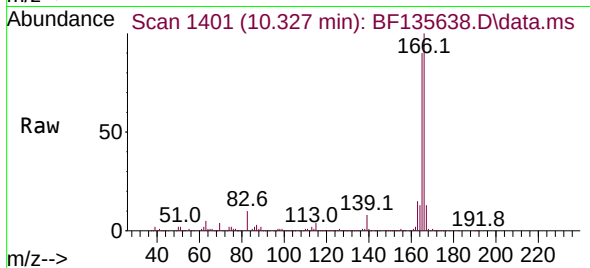
Tgt Ion:166 Resp: 192708

Ion Ratio Lower Upper

166 100

165 90.2 74.3 111.5

167 13.2 10.9 16.3



#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.268 min Scan# 1561

Delta R.T. -0.000 min

Lab File: BF135638.D

Acq: 06 Oct 2023 20:01

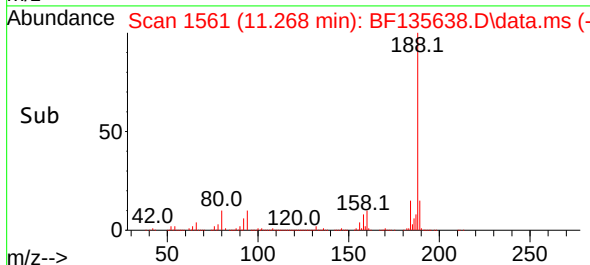
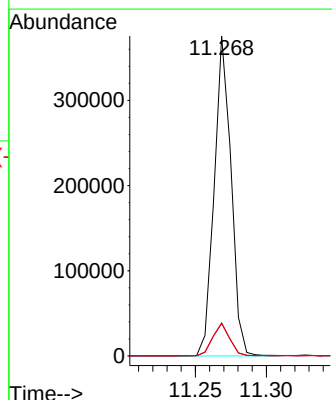
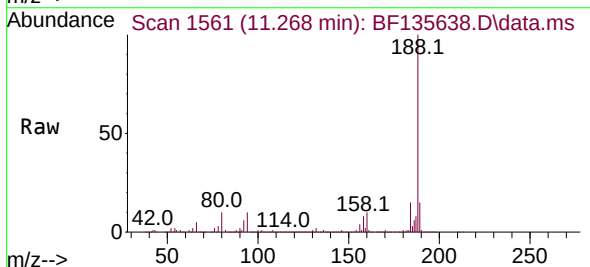
Tgt Ion:188 Resp: 309521

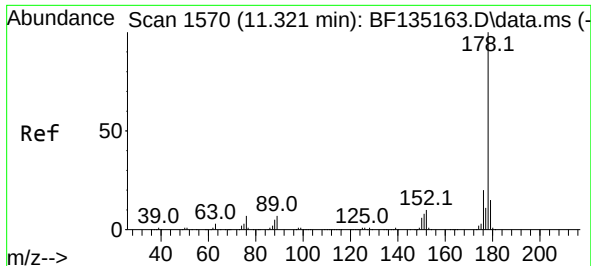
Ion Ratio Lower Upper

188 100

94 10.2 7.0 10.6

80 10.4 7.5 11.3

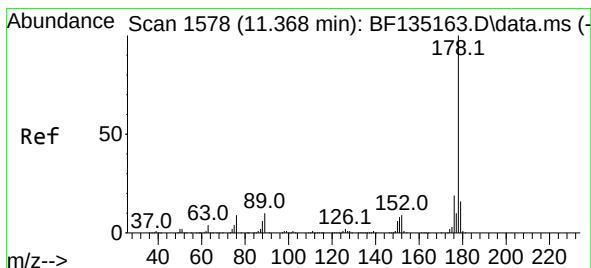
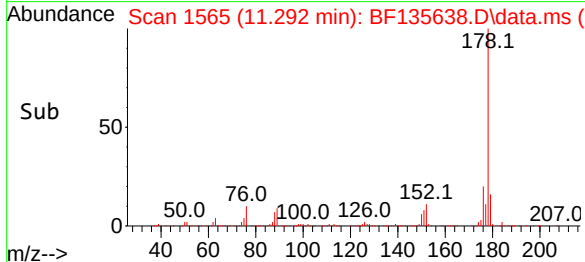
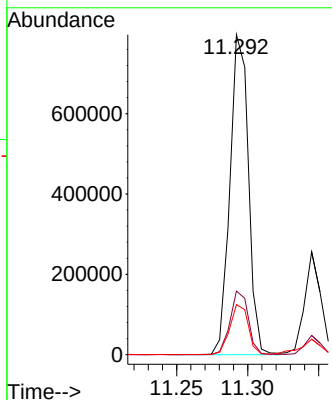
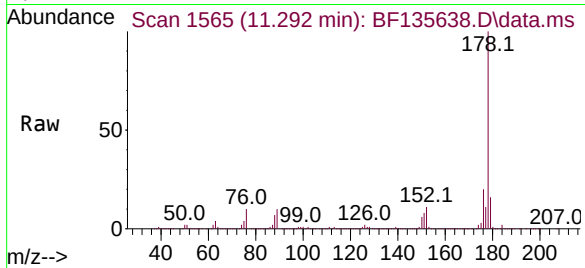




#71
Phenanthrene
Concen: 49.249 ng
RT: 11.292 min Scan# 1565
Delta R.T. -0.000 min
Lab File: BF135638.D
Acq: 06 Oct 2023 20:01

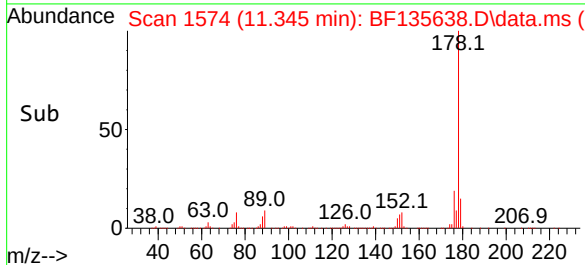
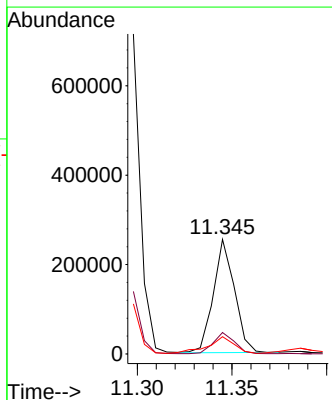
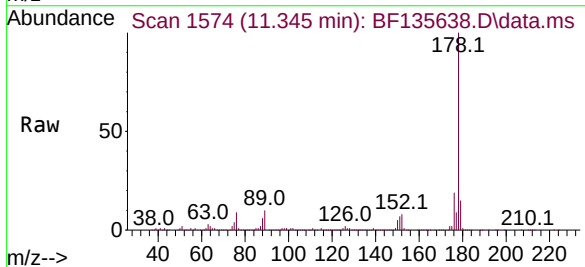
Instrument :
BNA_F
ClientSampleId :

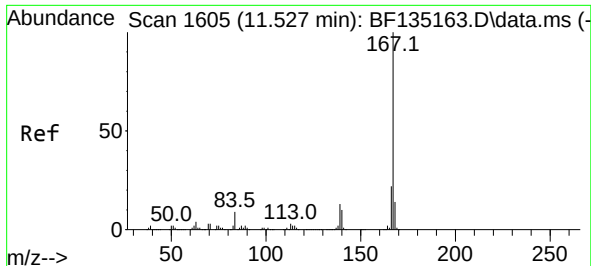
Tgt Ion:178 Resp: 720959
Ion Ratio Lower Upper
178 100
176 19.9 15.6 23.4
179 15.7 12.0 18.0



#72
Anthracene
Concen: 13.117 ng
RT: 11.345 min Scan# 1574
Delta R.T. -0.000 min
Lab File: BF135638.D
Acq: 06 Oct 2023 20:01

Tgt Ion:178 Resp: 197371
Ion Ratio Lower Upper
178 100
176 18.7 15.4 23.2
179 15.1 12.6 19.0

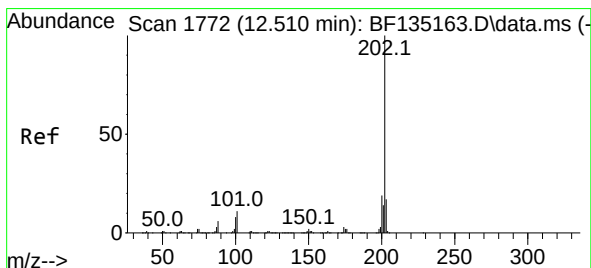
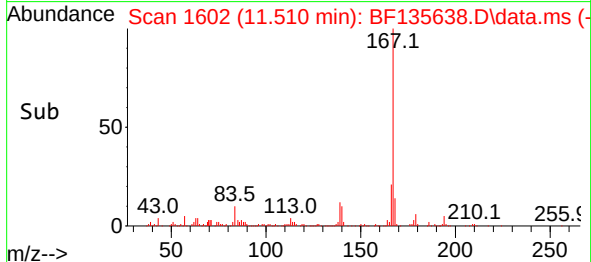
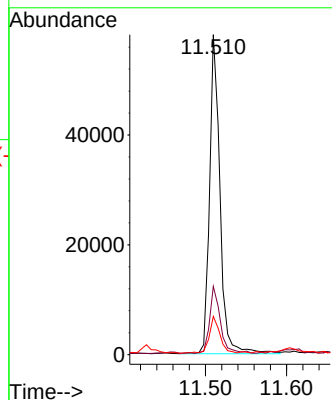
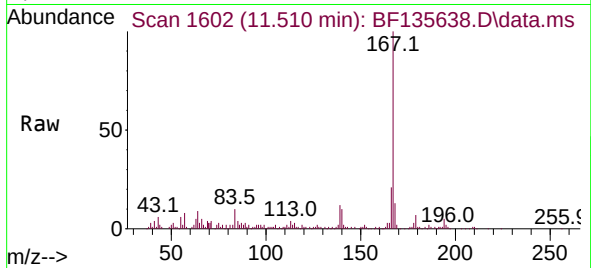




#73
 Carbazole
 Concen: 3.771 ng
 RT: 11.510 min Scan# 1
 Delta R.T. -0.000 min
 Lab File: BF135638.D
 Acq: 06 Oct 2023 20:01

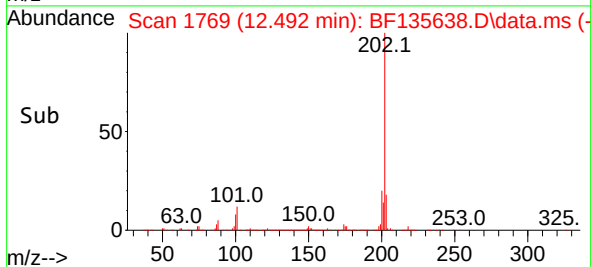
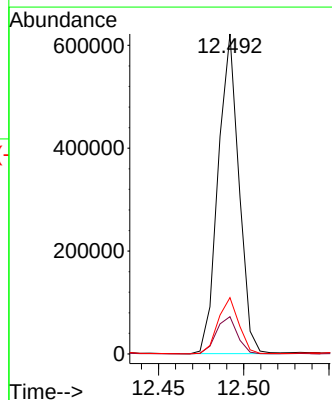
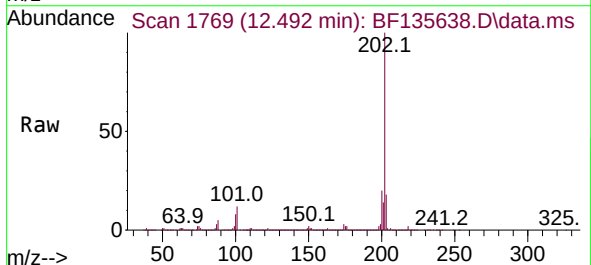
Instrument :
 BNA_F
 ClientSampleId :

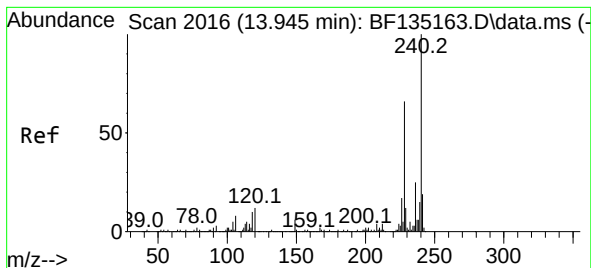
Tgt Ion:167 Resp: 51661
 Ion Ratio Lower Upper
 167 100
 166 21.4 17.4 26.0
 139 11.9 10.6 15.8



#75
 Fluoranthene
 Concen: 34.629 ng
 RT: 12.492 min Scan# 1769
 Delta R.T. 0.006 min
 Lab File: BF135638.D
 Acq: 06 Oct 2023 20:01

Tgt Ion:202 Resp: 528221
 Ion Ratio Lower Upper
 202 100
 101 11.7 0.0 31.3
 203 17.6 0.0 37.4





#76

Chrysene-d12

Concen: 20.000 ng

RT: 13.933 min Scan# 20

Delta R.T. 0.006 min

Lab File: BF135638.D

Acq: 06 Oct 2023 20:01

Instrument :

BNA_F

ClientSampleId :

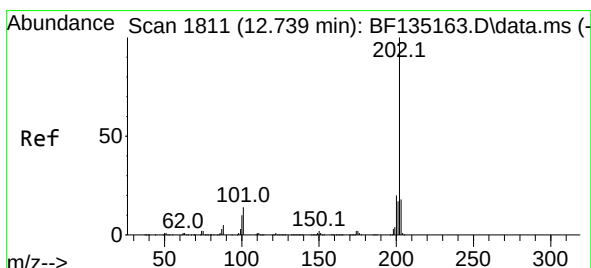
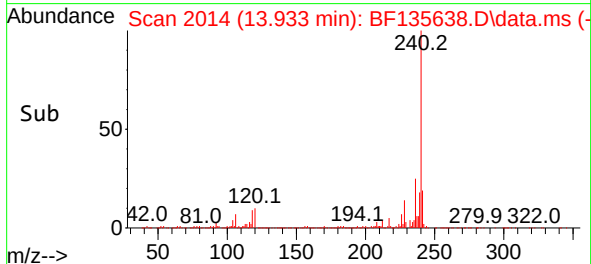
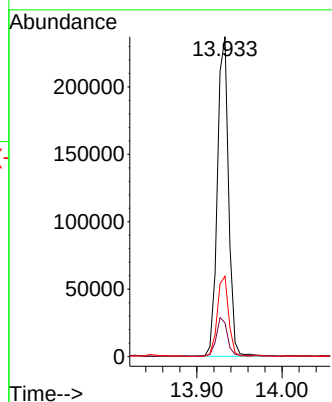
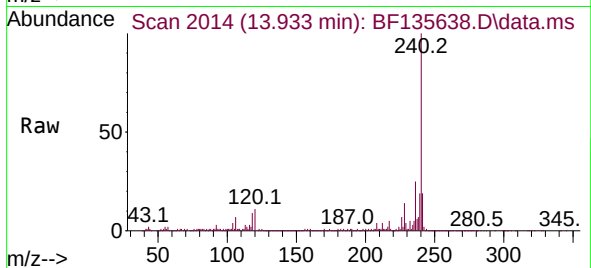
Tgt Ion:240 Resp: 217524

Ion Ratio Lower Upper

240 100

120 10.6 9.4 14.2

236 25.2 19.8 29.8



#78

Pyrene

Concen: 23.047 ng

RT: 12.721 min Scan# 1808

Delta R.T. 0.006 min

Lab File: BF135638.D

Acq: 06 Oct 2023 20:01

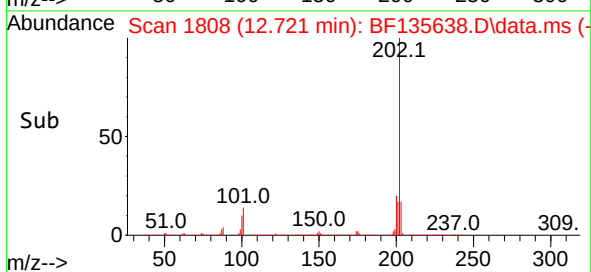
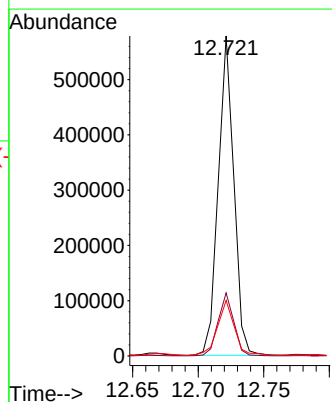
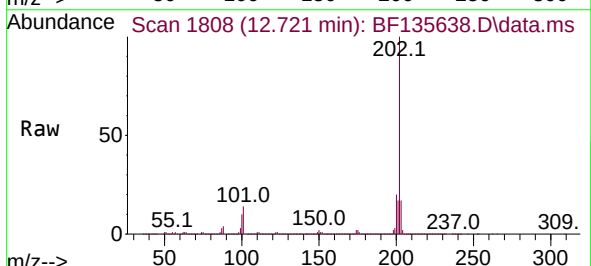
Tgt Ion:202 Resp: 477307

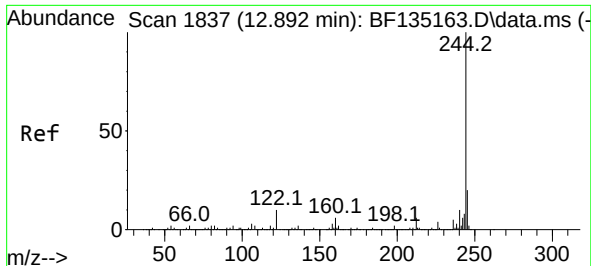
Ion Ratio Lower Upper

202 100

200 19.7 16.2 24.2

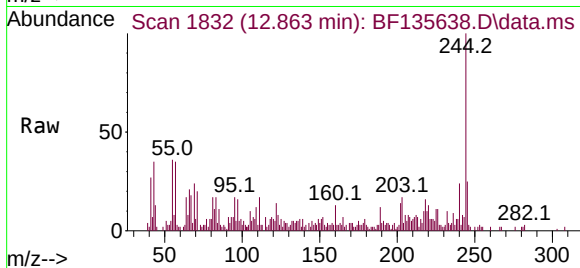
203 17.4 14.2 21.4



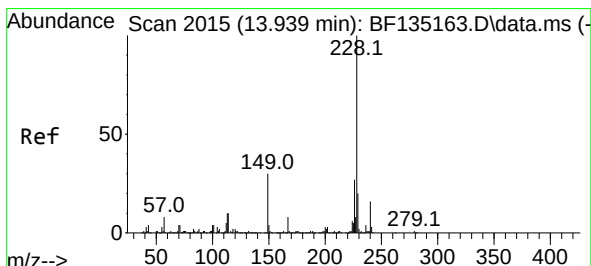
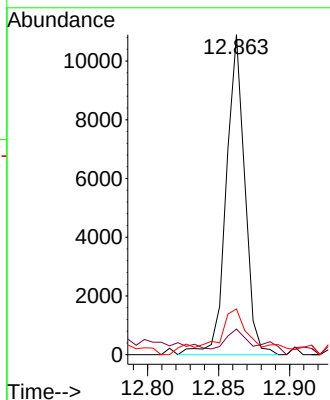
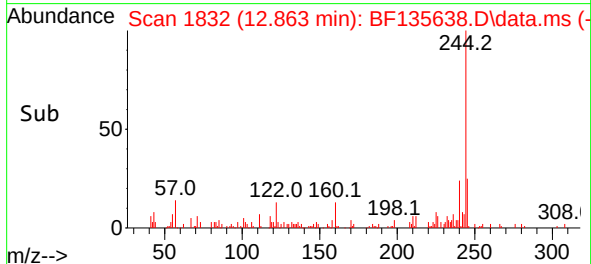


#79
 Terphenyl-d14
 Concen: 0.705 ng
 RT: 12.863 min Scan# 11
 Delta R.T. -0.000 min
 Lab File: BF135638.D
 Acq: 06 Oct 2023 20:01

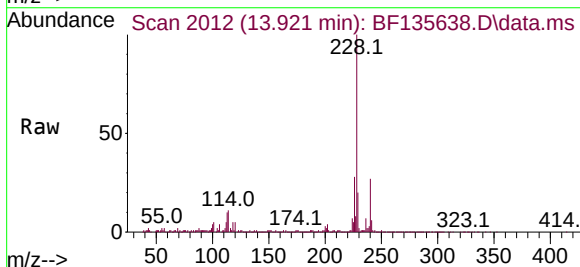
Instrument :
 BNA_F
 ClientSampleId :



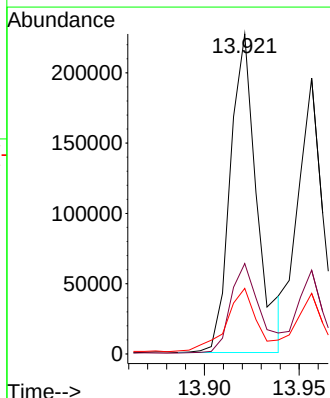
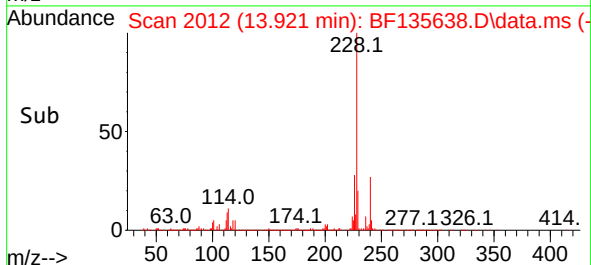
Tgt Ion:244 Resp: 9890
 Ion Ratio Lower Upper
 244 100
 212 8.0 5.1 7.7#
 122 14.3 7.9 11.9#

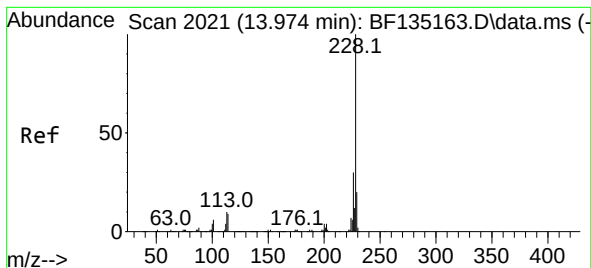


#81
 Benzo(a)anthracene
 Concen: 15.800 ng
 RT: 13.921 min Scan# 2012
 Delta R.T. 0.006 min
 Lab File: BF135638.D
 Acq: 06 Oct 2023 20:01



Tgt Ion:228 Resp: 221935
 Ion Ratio Lower Upper
 228 100
 226 28.2 21.7 32.5
 229 20.5 15.8 23.8





#83

Chrysene

Concen: 12.491 ng

RT: 13.957 min Scan# 20

Delta R.T. 0.006 min

Lab File: BF135638.D

Acq: 06 Oct 2023 20:01

Instrument :

BNA_F

ClientSampleId :

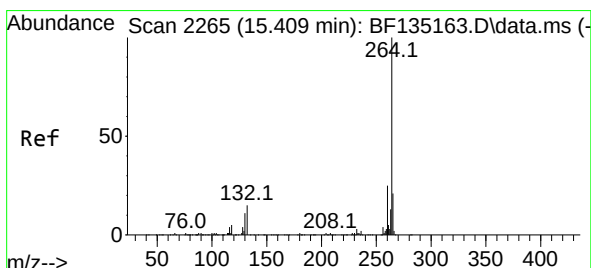
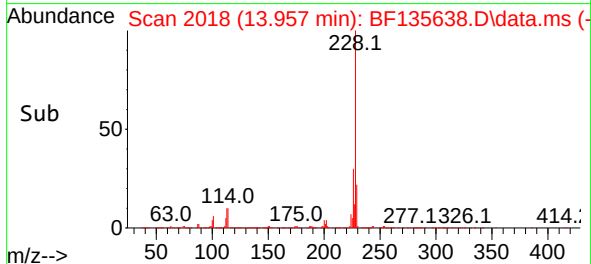
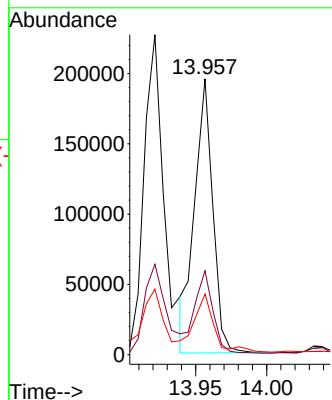
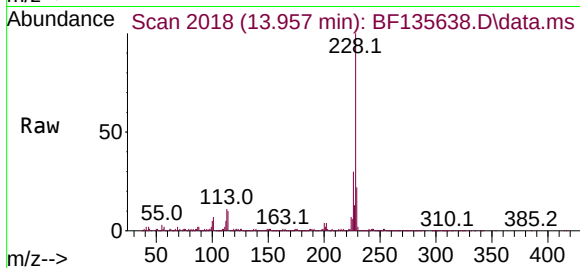
Tgt Ion:228 Resp: 174433

Ion Ratio Lower Upper

228 100

226 30.4 24.3 36.5

229 22.0 16.0 24.0



#86

Perylene-d12

Concen: 20.000 ng

RT: 15.398 min Scan# 2263

Delta R.T. 0.012 min

Lab File: BF135638.D

Acq: 06 Oct 2023 20:01

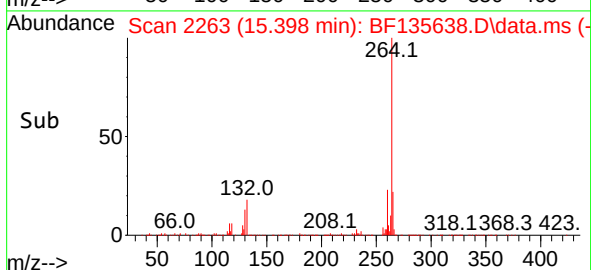
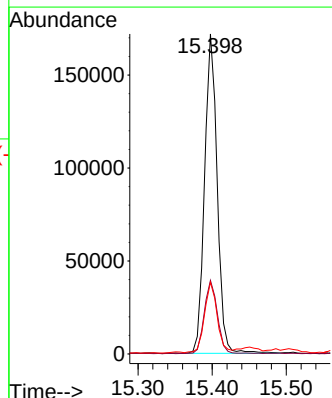
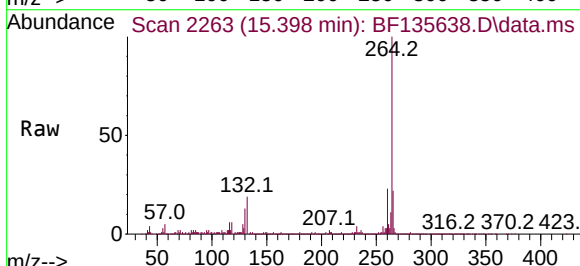
Tgt Ion:264 Resp: 203198

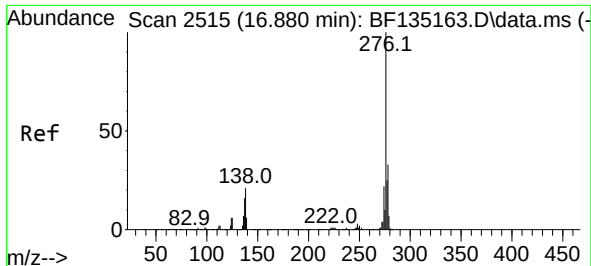
Ion Ratio Lower Upper

264 100

260 23.0 19.8 29.6

265 22.4 17.0 25.4

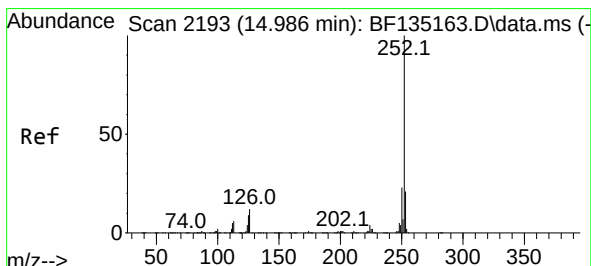
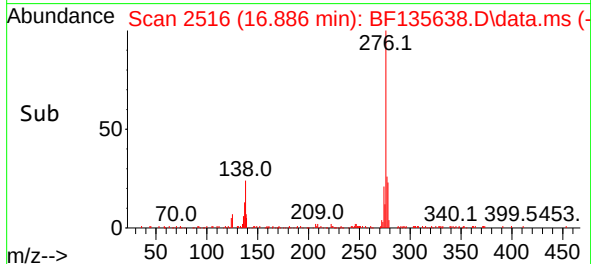
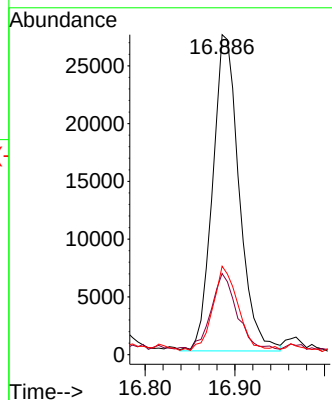
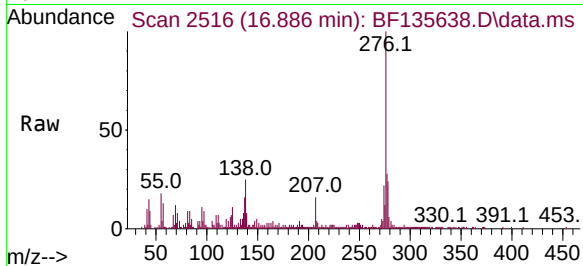




#87
 Indeno(1,2,3-cd)pyrene
 Concen: 4.213 ng
 RT: 16.886 min Scan# 2116
 Delta R.T. 0.018 min
 Lab File: BF135638.D
 Acq: 06 Oct 2023 20:01

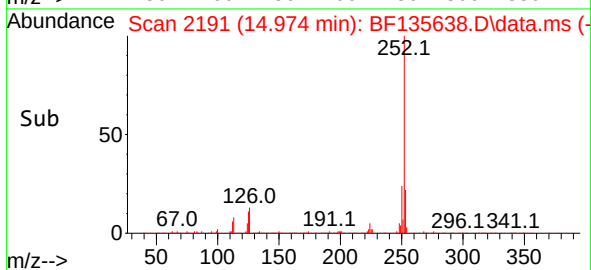
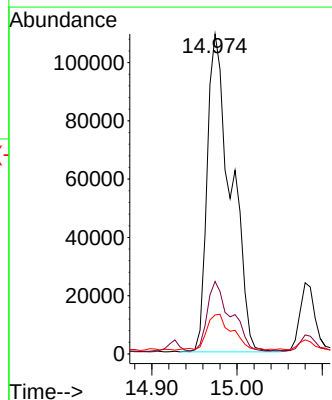
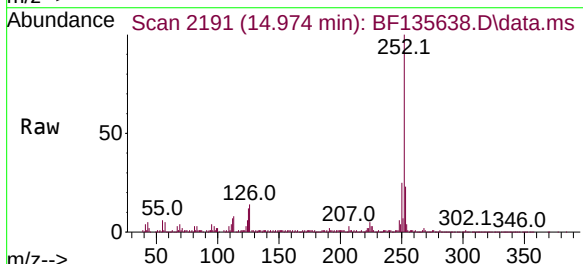
Instrument :
 BNA_F
 ClientSampleId :

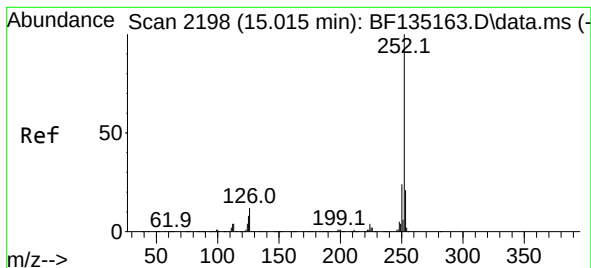
Tgt Ion:276 Resp: 56136
 Ion Ratio Lower Upper
 276 100
 138 22.8 19.2 28.8
 277 24.8 19.7 29.5



#88
 Benzo(b)fluoranthene
 Concen: 19.304 ng
 RT: 14.974 min Scan# 2191
 Delta R.T. 0.012 min
 Lab File: BF135638.D
 Acq: 06 Oct 2023 20:01

Tgt Ion:252 Resp: 212345
 Ion Ratio Lower Upper
 252 100
 253 22.6 17.2 25.8
 125 12.2 7.1 10.7#





#89

Benzo(k)fluoranthene

Concen: 19.542 ng

RT: 14.974 min Scan# 21

Delta R.T. -0.018 min

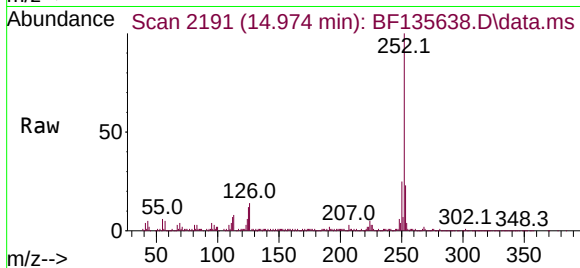
Lab File: BF135638.D

Acq: 06 Oct 2023 20:01

Instrument :

BNA_F

ClientSampleId :



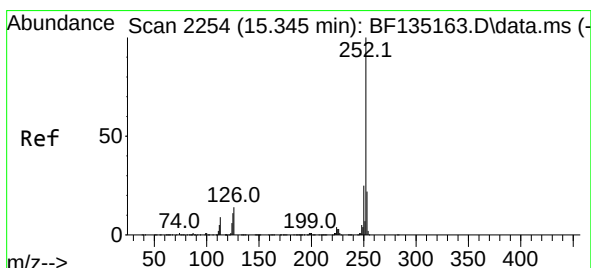
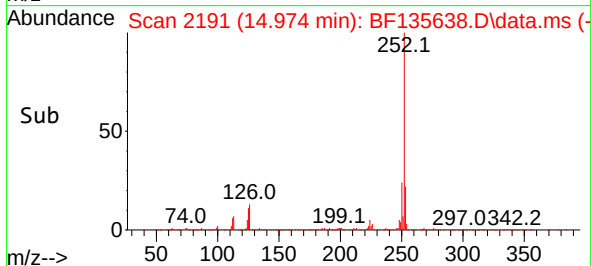
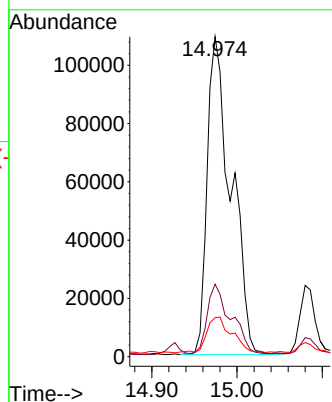
Tgt Ion:252 Resp: 212345

Ion Ratio Lower Upper

252 100

253 22.6 17.4 26.0

125 12.2 7.2 10.8#



#90

Benzo(a)pyrene

Concen: 11.381 ng

RT: 15.339 min Scan# 2253

Delta R.T. 0.012 min

Lab File: BF135638.D

Acq: 06 Oct 2023 20:01

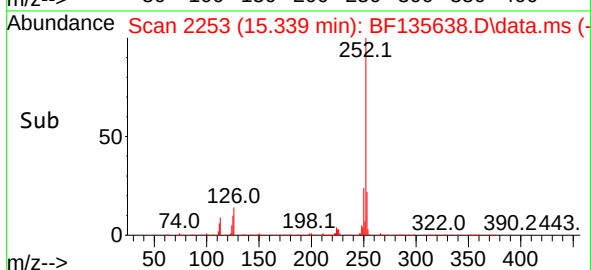
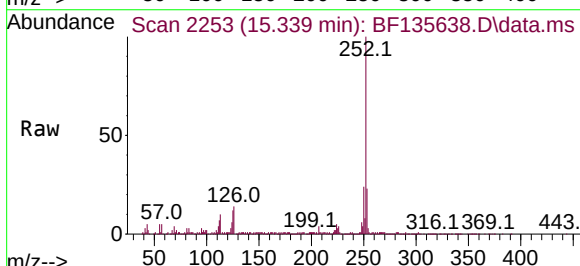
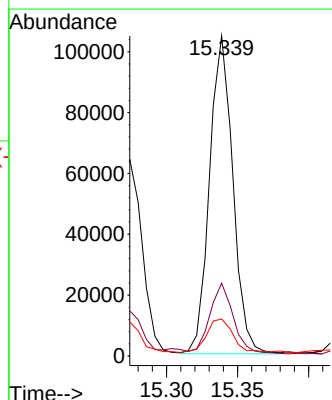
Tgt Ion:252 Resp: 119387

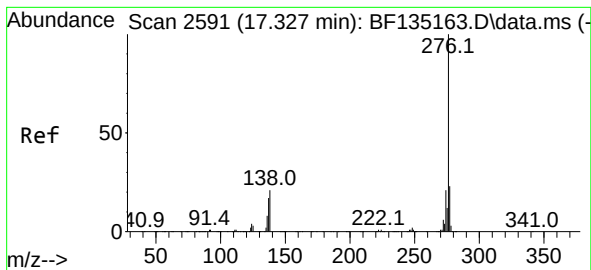
Ion Ratio Lower Upper

252 100

253 22.7 17.5 26.3

125 11.6 9.2 13.8





#92

Benzo(g,h,i)perylene

Concen: 4.583 ng

RT: 17.339 min Scan# 21

Delta R.T. 0.023 min

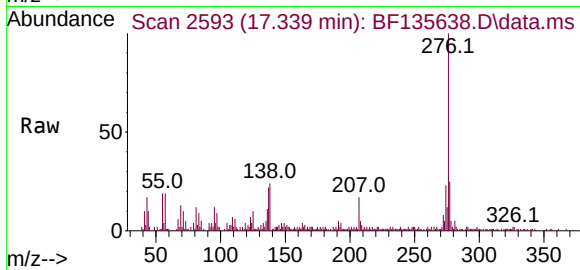
Lab File: BF135638.D

Acq: 06 Oct 2023 20:01

Instrument :

BNA_F

ClientSampleId :



Tgt Ion: 276 Resp: 52174

Ion Ratio Lower Upper

276 100

277 24.9 18.8 28.2

138 24.2 16.9 25.3

