

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF101923\
 Data File : BF135894.D
 Acq On : 19 Oct 2023 19:17
 Operator : CG\JU
 Sample : 04704-02DL 5X
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 R-1(10-15)DL

Quant Time: Oct 20 02:03:37 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101323.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Oct 17 01:22:00 2023
 Response via : Initial Calibration

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

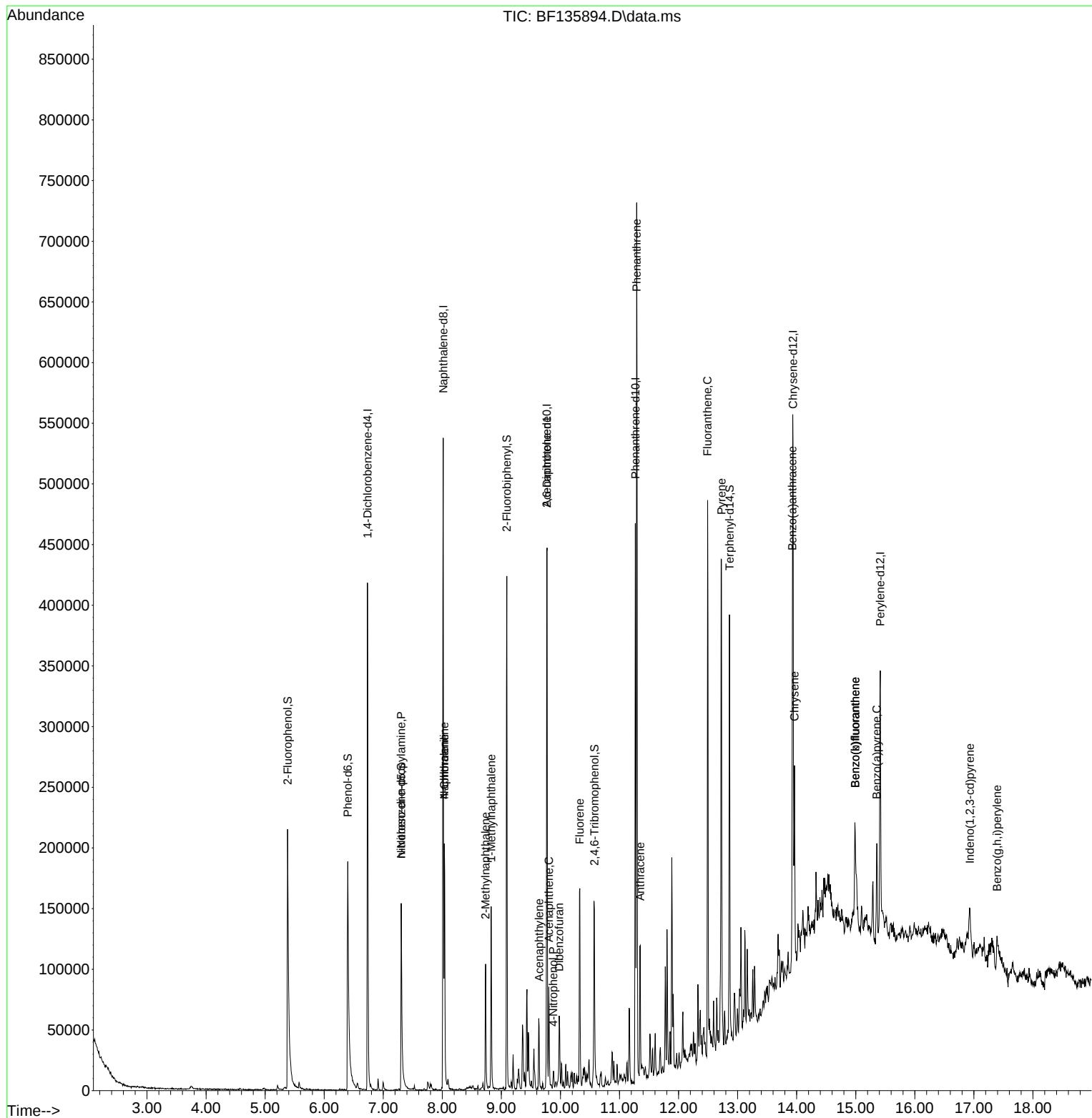
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.734	152	61652	20.000	ng	-0.01
21) Naphthalene-d8	8.016	136	224523	20.000	ng	0.00
39) Acenaphthene-d10	9.769	164	93608	20.000	ng	-0.02
64) Phenanthrene-d10	11.269	188	155059	20.000	ng	-0.01
76) Chrysene-d12	13.939	240	137581	20.000	ng	-0.01
86) Perylene-d12	15.415	264	102351	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.381	112	100533	26.217	ng	0.00
7) Phenol-d6	6.398	99	106192	22.194	ng	0.00
23) Nitrobenzene-d5	7.304	82	62499	15.310	ng	-0.01
42) 2,4,6-Tribromophenol	10.575	330	20536	22.862	ng	-0.01
45) 2-Fluorobiphenyl	9.092	172	128122	21.400	ng	-0.01
79) Terphenyl-d14	12.863	244	113410	15.266	ng	-0.02
Target Compounds						Qvalue
19) n-Nitroso-di-n-propyla...	7.304	70	8323	2.813	ng	# 73
31) Naphthalene	8.034	128	88294	8.062	ng	97
33) 4-Chloroaniline	8.034	127	12524	2.618	ng	# 36
37) 2-Methylnaphthalene	8.733	142	29077	4.030	ng	100
38) 1-Methylnaphthalene	8.828	142	35968	5.405	ng	100
49) Acenaphthylene	9.639	152	20333	2.378	ng	# 95
51) 2,6-Dinitrotoluene	9.769	165	12885	9.482	ng	# 17
52) Acenaphthene	9.804	154	17146	3.345	ng	97
55) Dibenzofuran	9.980	168	21174	2.738	ng	# 93
56) 4-Nitrophenol	9.880	139	269	5.821	ng	# 5
58) Fluorene	10.327	166	54812	9.052	ng	100
71) Phenanthrene	11.292	178	259916	34.991	ng	99
72) Anthracene	11.351	178	48860	6.348	ng	99
75) Fluoranthene	12.492	202	176450	21.403	ng	99
78) Pyrene	12.727	202	179342	16.404	ng	99
81) Benzo(a)anthracene	13.927	228	71200	7.879	ng	97
83) Chrysene	13.963	228	59452	6.792	ng	97
87) Indeno(1,2,3-cd)pyrene	16.933	276	18053	3.237	ng	94
88) Benzo(b)fluoranthene	14.992	252	58429	10.200	ng	# 91
89) Benzo(k)fluoranthene	14.992	252	58429	10.506	ng	# 89
90) Benzo(a)pyrene	15.357	252	37986	7.052	ng	98
92) Benzo(g,h,i)perylene	17.392	276	16388	3.490	ng	# 90

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

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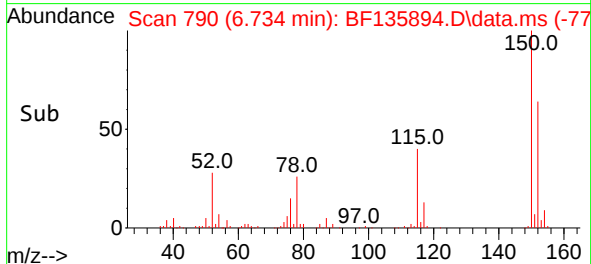
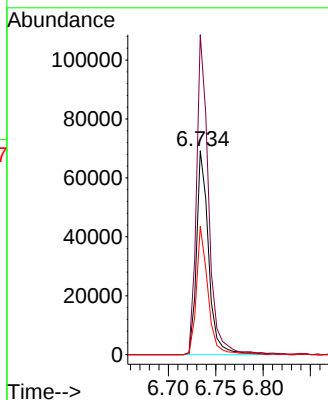
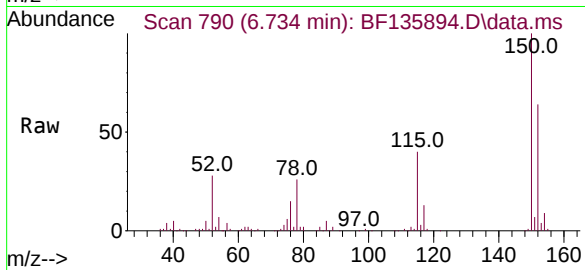




#1
 1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 6.734 min Scan# 791
 Delta R.T. -0.012 min
 Lab File: BF135894.D
 Acq: 19 Oct 2023 19:17

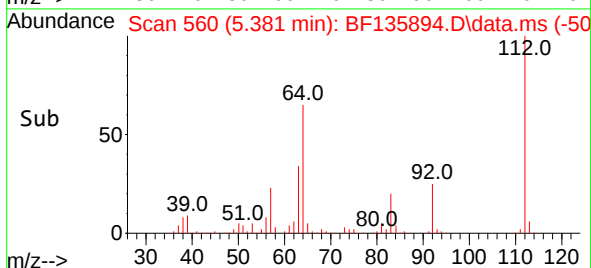
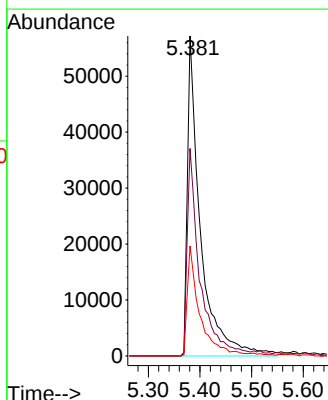
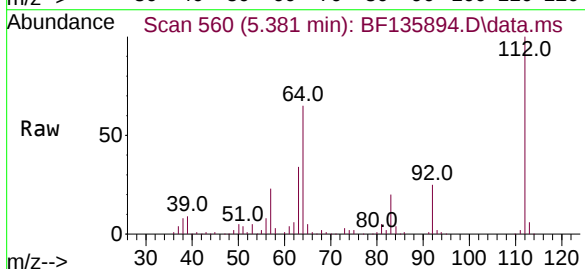
Instrument :
 BNA_F
 ClientSampleId :
 R-1(10-15)DL

Tgt Ion:152 Resp: 61652
 Ion Ratio Lower Upper
 152 100
 150 156.9 124.5 186.7
 115 62.9 49.0 73.4



#5
 2-Fluorophenol
 Concen: 26.217 ng
 RT: 5.381 min Scan# 560
 Delta R.T. 0.006 min
 Lab File: BF135894.D
 Acq: 19 Oct 2023 19:17

Tgt Ion:112 Resp: 100533
 Ion Ratio Lower Upper
 112 100
 64 64.9 51.2 76.8
 63 34.3 26.1 39.1

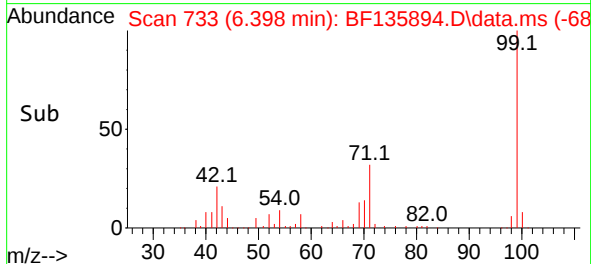
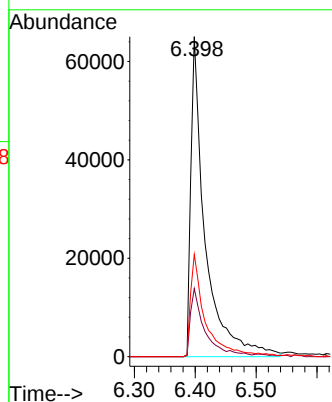
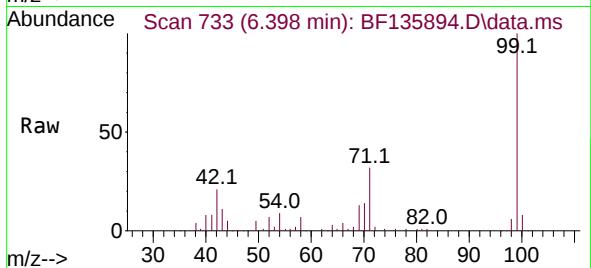




#7
Phenol-d6
Concen: 22.194 ng
RT: 6.398 min Scan# 71
Delta R.T. -0.000 min
Lab File: BF135894.D
Acq: 19 Oct 2023 19:17

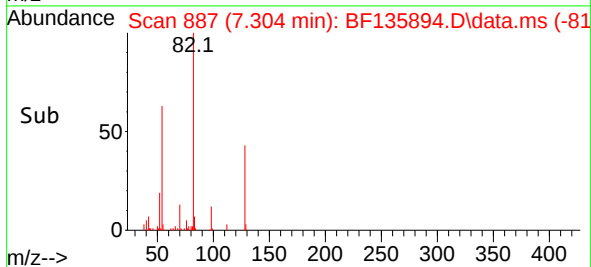
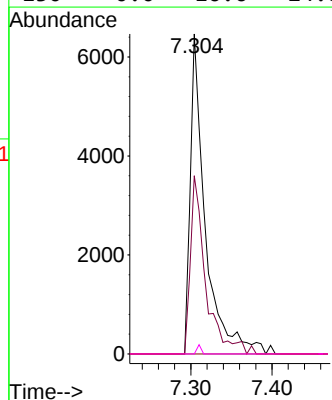
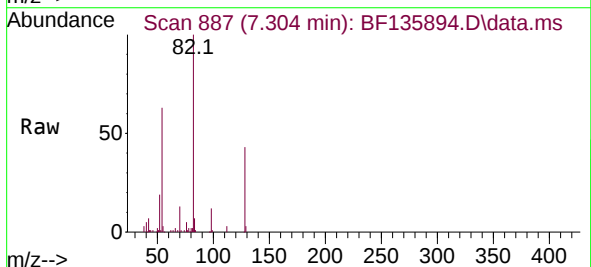
Instrument :
BNA_F
ClientSampleId :
R-1(10-15)DL

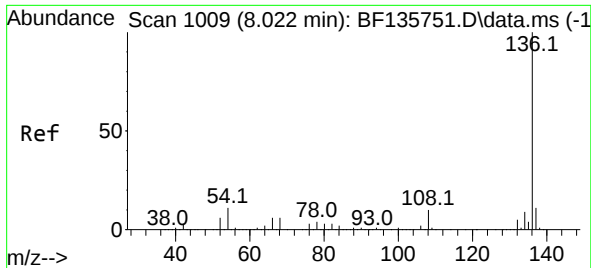
Tgt Ion: 99 Resp: 106192
Ion Ratio Lower Upper
99 100
42 21.3 18.4 27.6
71 31.9 27.2 40.8



#19
n-Nitroso-di-n-propylamine
Concen: 2.813 ng
RT: 7.304 min Scan# 887
Delta R.T. 0.141 min
Lab File: BF135894.D
Acq: 19 Oct 2023 19:17

Tgt Ion: 70 Resp: 8323
Ion Ratio Lower Upper
70 100
42 55.7 59.8 89.6#
101 0.0 7.4 11.2#
130 0.0 16.6 24.8#





#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.016 min Scan# 1009
Delta R.T. -0.006 min
Lab File: BF135894.D
Acq: 19 Oct 2023 19:17

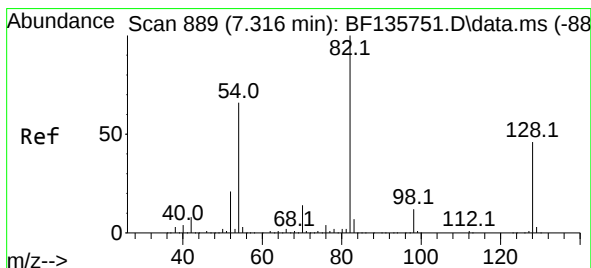
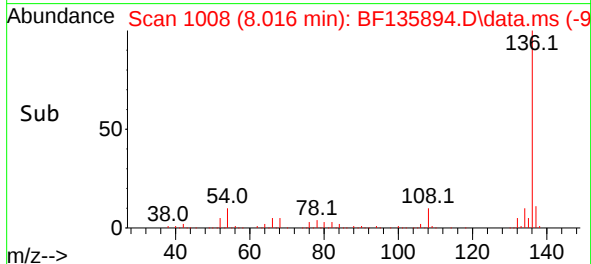
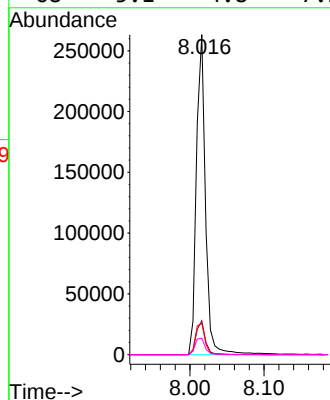
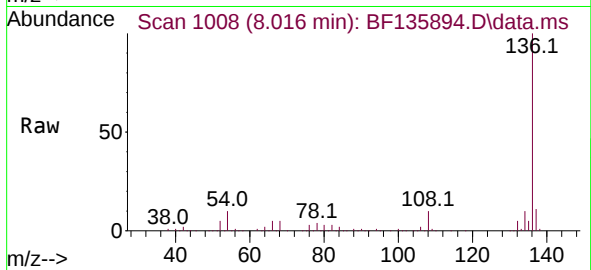
Instrument :

BNA_F

ClientSampleId :

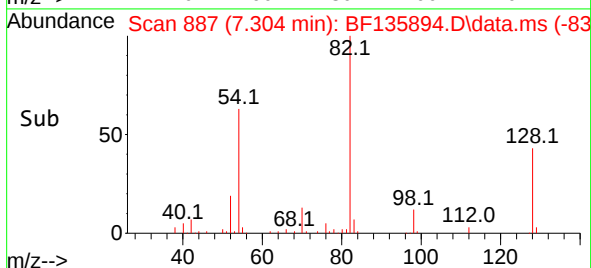
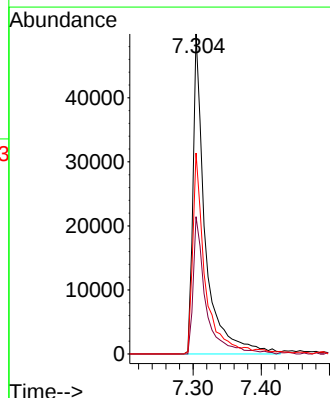
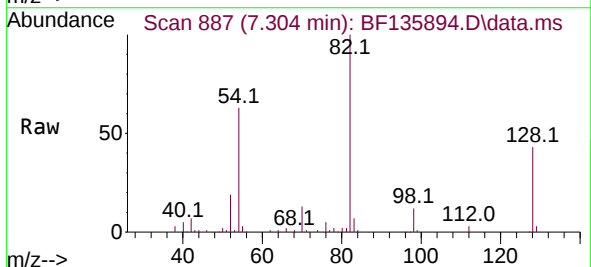
R-1(10-15)DL

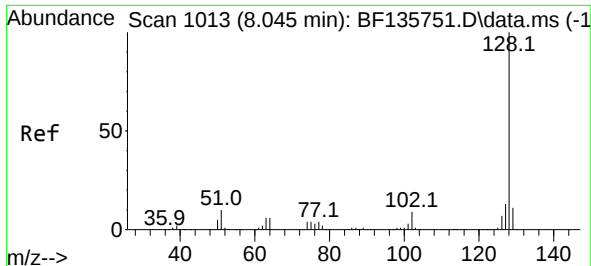
Tgt Ion:136 Resp: 224523
Ion Ratio Lower Upper
136 100
137 10.6 8.6 12.8
54 9.7 8.5 12.7
68 5.1 4.8 7.2



#23
Nitrobenzene-d5
Concen: 15.310 ng
RT: 7.304 min Scan# 887
Delta R.T. -0.012 min
Lab File: BF135894.D
Acq: 19 Oct 2023 19:17

Tgt Ion: 82 Resp: 62499
Ion Ratio Lower Upper
82 100
128 42.9 37.0 55.6
54 62.8 52.8 79.2

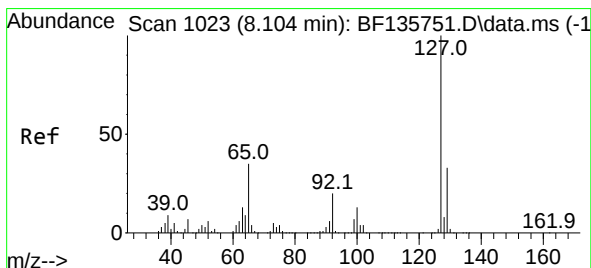
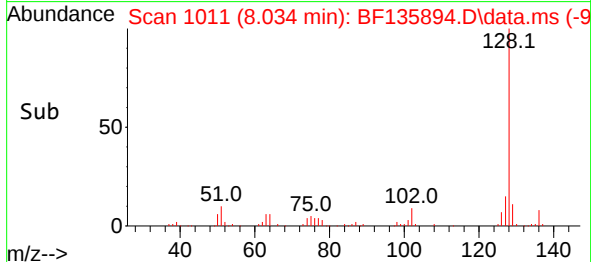
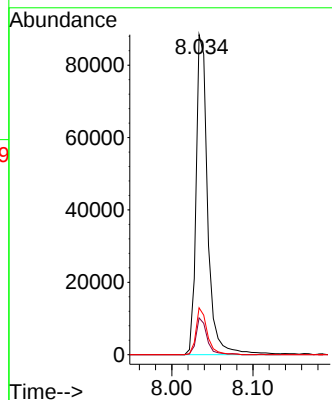
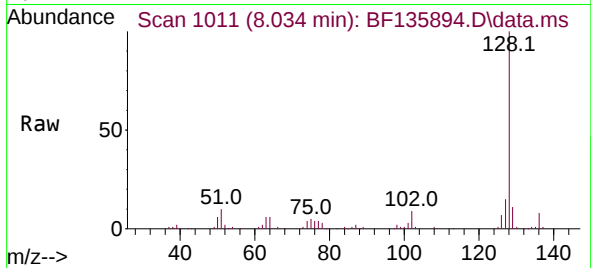




#31
Naphthalene
Concen: 8.062 ng
RT: 8.034 min Scan# 1011
Delta R.T. -0.012 min
Lab File: BF135894.D
Acq: 19 Oct 2023 19:17

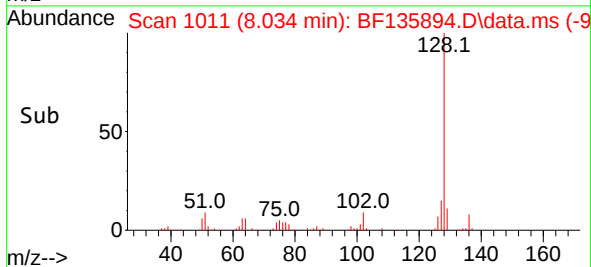
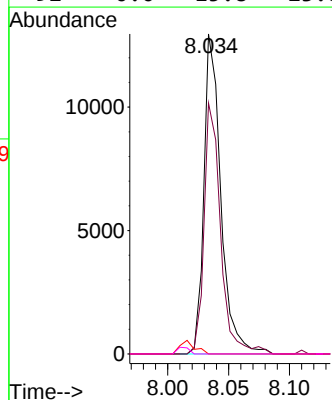
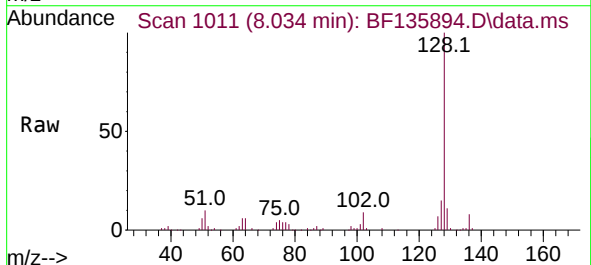
Instrument :
BNA_F
ClientSampleId :
R-1(10-15)DL

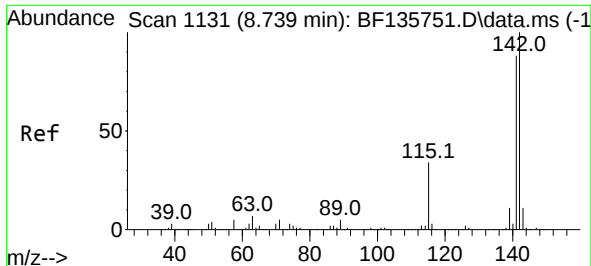
Tgt Ion:128 Resp: 88294
Ion Ratio Lower Upper
128 100
129 11.5 8.7 13.1
127 14.7 10.2 15.4



#33
4-Chloroaniline
Concen: 2.618 ng
RT: 8.034 min Scan# 1011
Delta R.T. -0.071 min
Lab File: BF135894.D
Acq: 19 Oct 2023 19:17

Tgt Ion:127 Resp: 12524
Ion Ratio Lower Upper
127 100
129 78.4 26.5 39.7#
65 0.0 27.9 41.9#
92 0.0 15.8 23.8#





#37

2-Methylnaphthalene

Concen: 4.030 ng

RT: 8.733 min Scan# 1131

Delta R.T. -0.006 min

Lab File: BF135894.D

Acq: 19 Oct 2023 19:17

Instrument :

BNA_F

ClientSampleId :

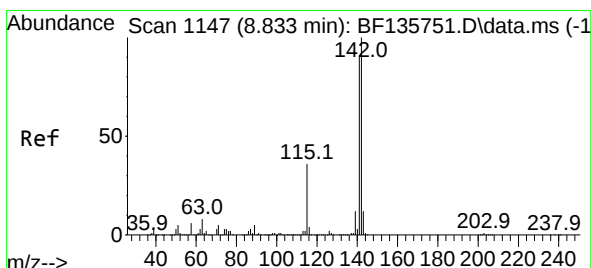
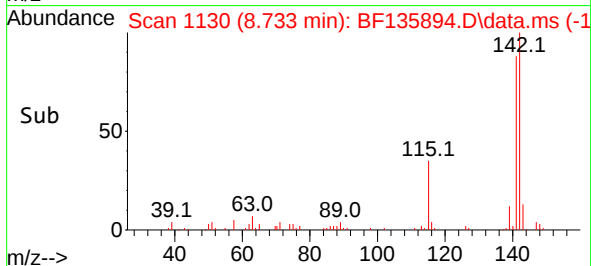
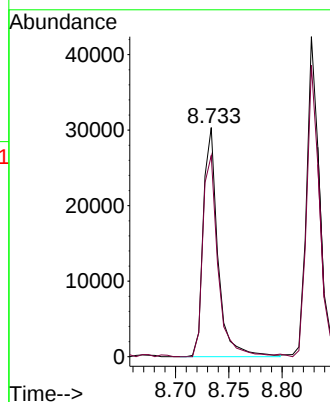
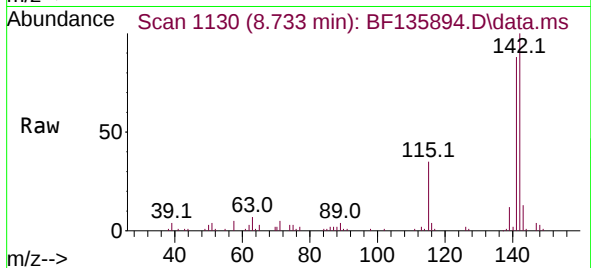
R-1(10-15)DL

Tgt Ion:142 Resp: 29077

Ion Ratio Lower Upper

142 100

141 87.7 70.6 105.8



#38

1-Methylnaphthalene

Concen: 5.405 ng

RT: 8.828 min Scan# 1146

Delta R.T. -0.012 min

Lab File: BF135894.D

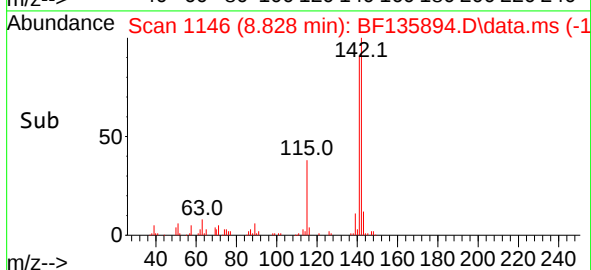
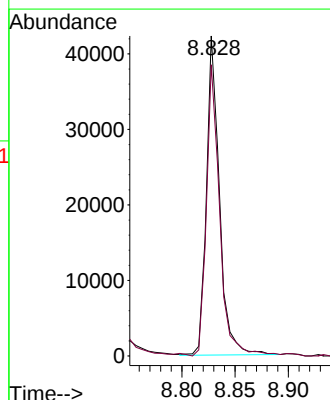
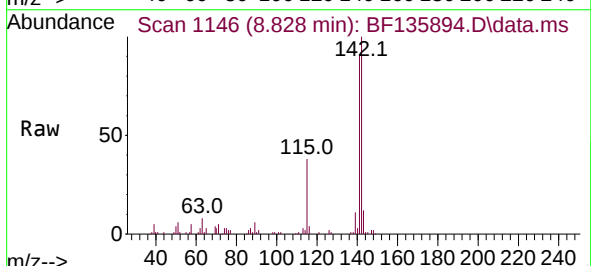
Acq: 19 Oct 2023 19:17

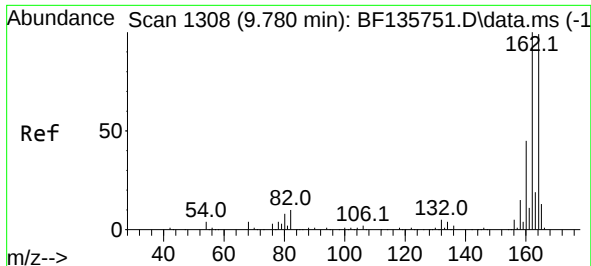
Tgt Ion:142 Resp: 35968

Ion Ratio Lower Upper

142 100

141 91.0 72.7 109.1





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.769 min Scan# 11

Delta R.T. -0.018 min

Lab File: BF135894.D

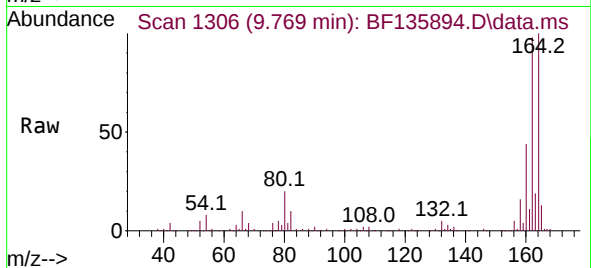
Acq: 19 Oct 2023 19:17

Instrument :

BNA_F

ClientSampleId :

R-1(10-15)DL



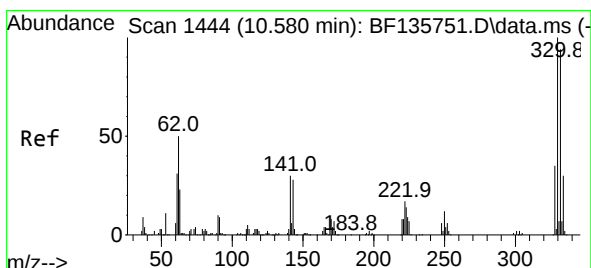
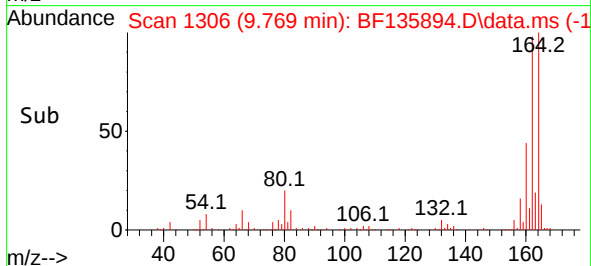
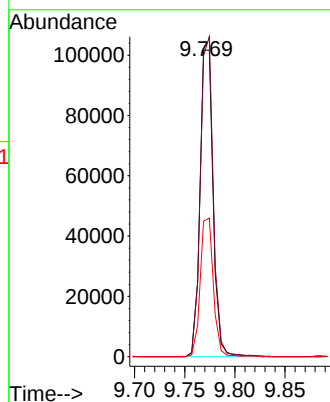
Tgt Ion:164 Resp: 93608

Ion Ratio Lower Upper

164 100

162 98.1 80.8 121.2

160 44.2 36.6 54.8



#42

2,4,6-Tribromophenol

Concen: 22.862 ng

RT: 10.575 min Scan# 1443

Delta R.T. -0.012 min

Lab File: BF135894.D

Acq: 19 Oct 2023 19:17

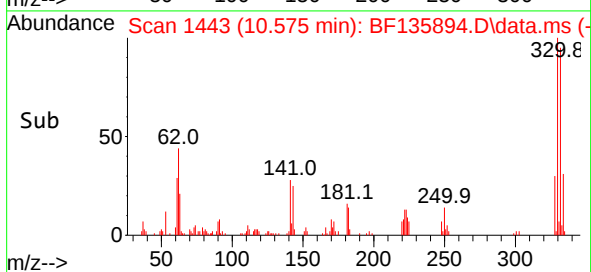
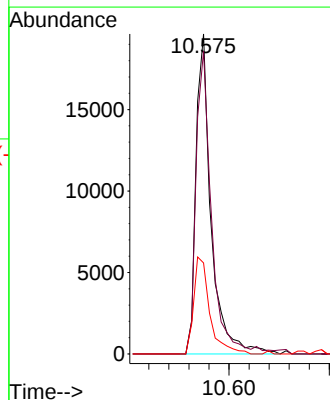
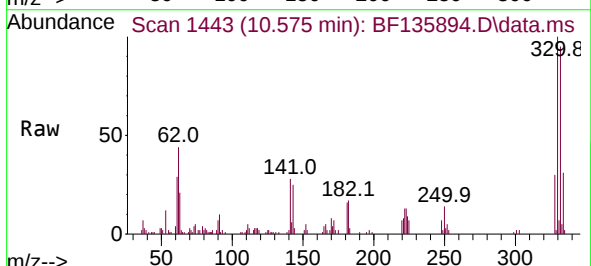
Tgt Ion:330 Resp: 20536

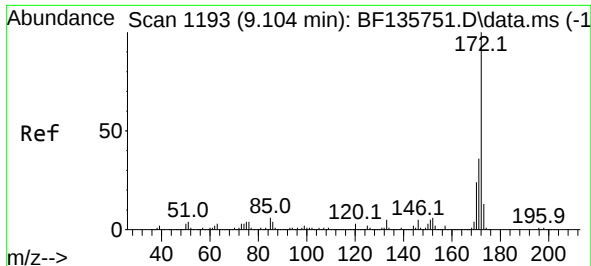
Ion Ratio Lower Upper

330 100

332 97.3 75.0 112.4

141 32.2 25.8 38.6





#45

2-Fluorobiphenyl

Concen: 21.400 ng

RT: 9.092 min Scan# 1191

Delta R.T. -0.012 min

Lab File: BF135894.D

Acq: 19 Oct 2023 19:17

Instrument :

BNA_F

ClientSampleId :

R-1(10-15)DL

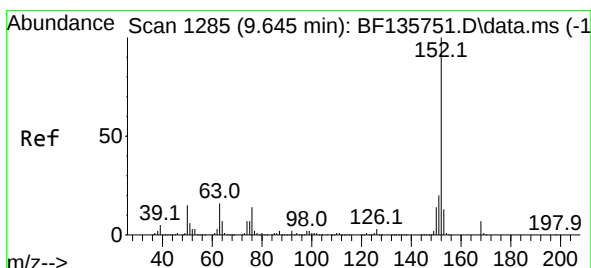
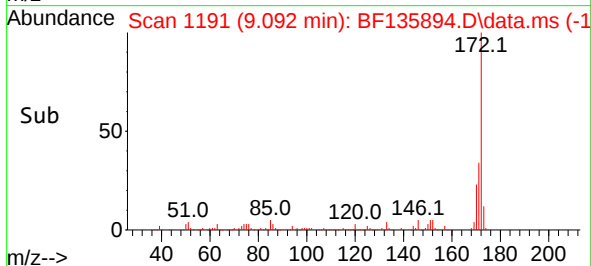
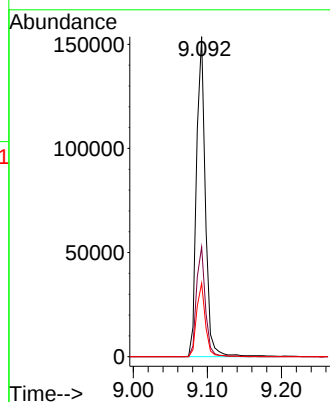
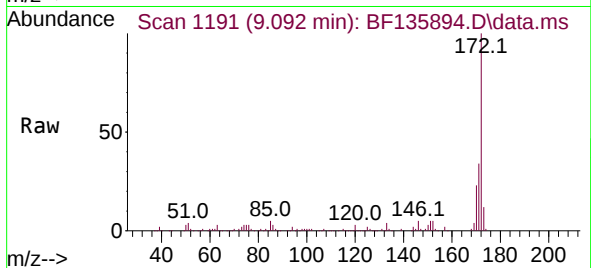
Tgt Ion:172 Resp: 128122

Ion Ratio Lower Upper

172 100

171 34.3 28.4 42.6

170 23.0 18.8 28.2



#49

Acenaphthylene

Concen: 2.378 ng

RT: 9.639 min Scan# 1284

Delta R.T. -0.006 min

Lab File: BF135894.D

Acq: 19 Oct 2023 19:17

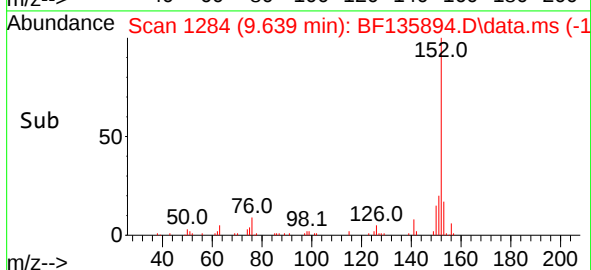
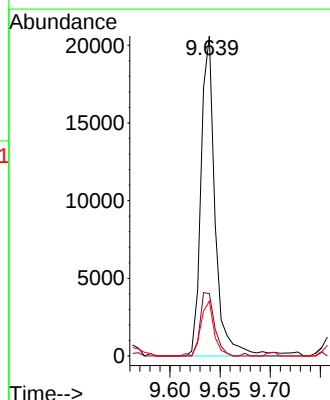
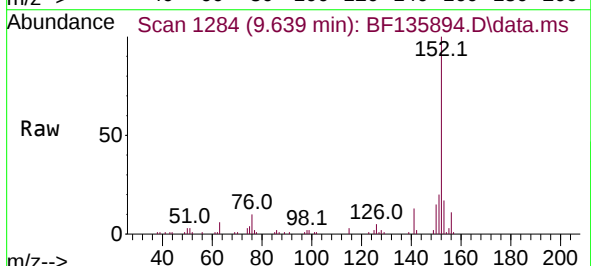
Tgt Ion:152 Resp: 20333

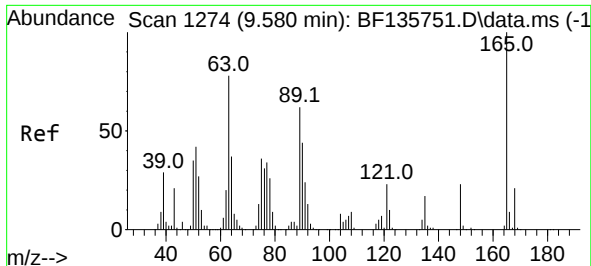
Ion Ratio Lower Upper

152 100

151 19.5 16.2 24.2

153 17.2 10.2 15.4#

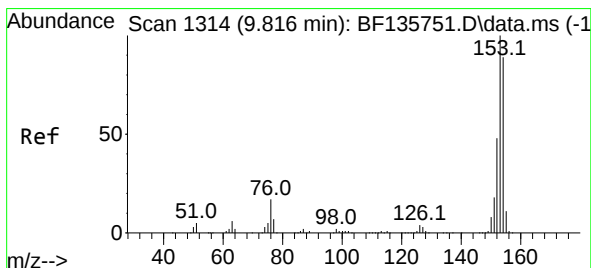
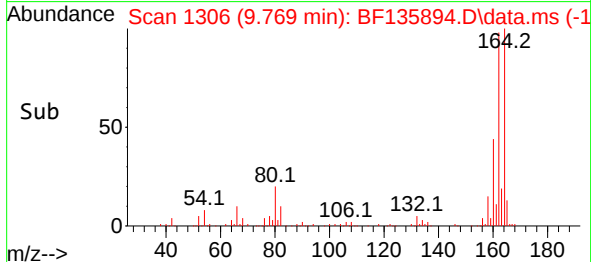
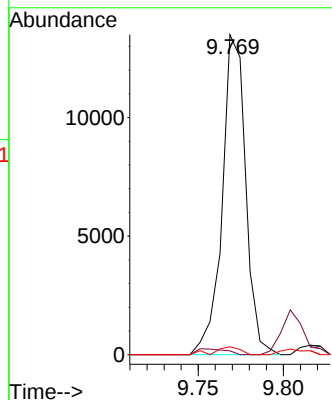
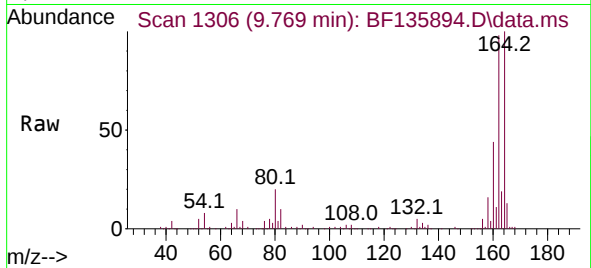




#51
2,6-Dinitrotoluene
Concen: 9.482 ng
RT: 9.769 min Scan# 11
Delta R.T. 0.182 min
Lab File: BF135894.D
Acq: 19 Oct 2023 19:17

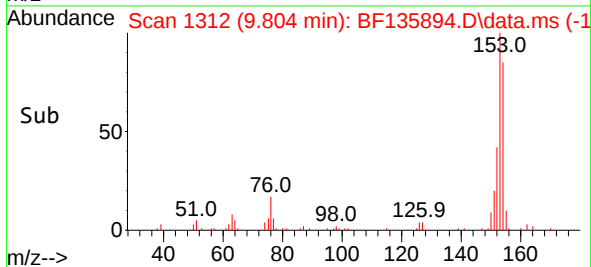
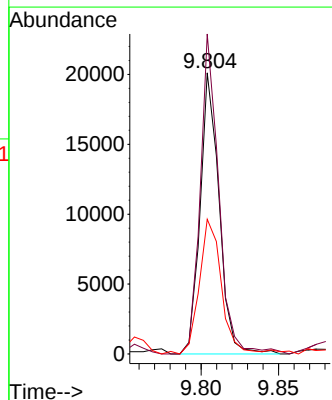
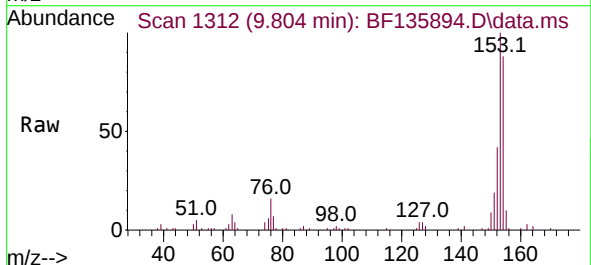
Instrument :
BNA_F
ClientSampleId :
R-1(10-15)DL

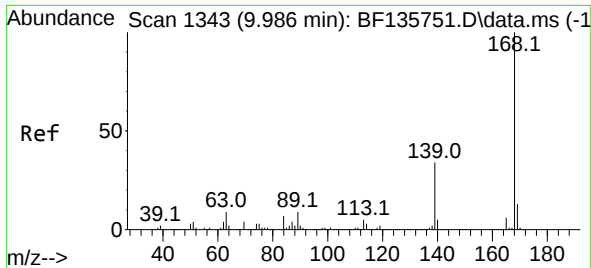
Tgt Ion:165 Resp: 12885
Ion Ratio Lower Upper
165 100
63 1.2 62.2 93.4#
89 2.4 49.6 74.4#



#52
Acenaphthene
Concen: 3.345 ng
RT: 9.804 min Scan# 1312
Delta R.T. -0.012 min
Lab File: BF135894.D
Acq: 19 Oct 2023 19:17

Tgt Ion:154 Resp: 17146
Ion Ratio Lower Upper
154 100
153 113.8 90.1 135.1
152 47.9 43.1 64.7

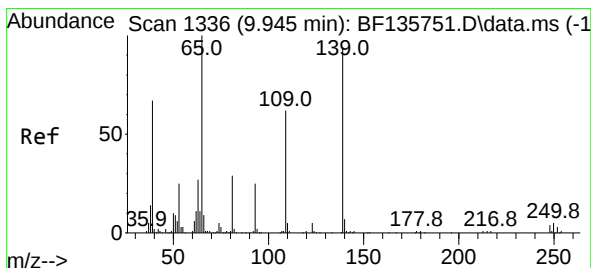
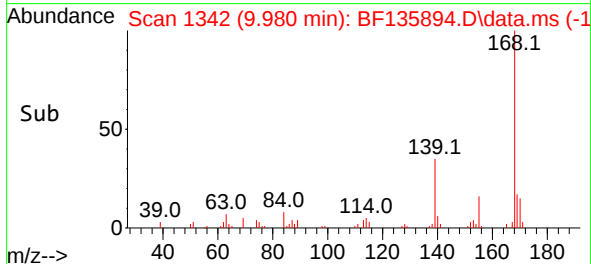
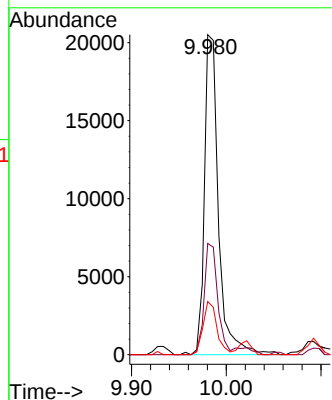
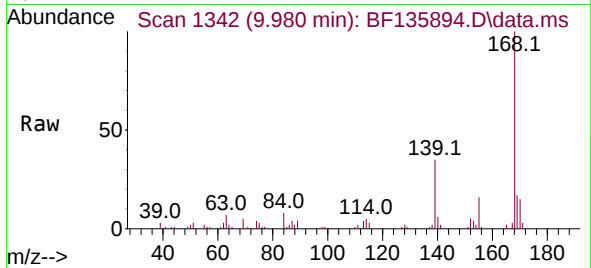




#55
Dibenzenofuran
Concen: 2.738 ng
RT: 9.980 min Scan# 11
Delta R.T. -0.012 min
Lab File: BF135894.D
Acq: 19 Oct 2023 19:17

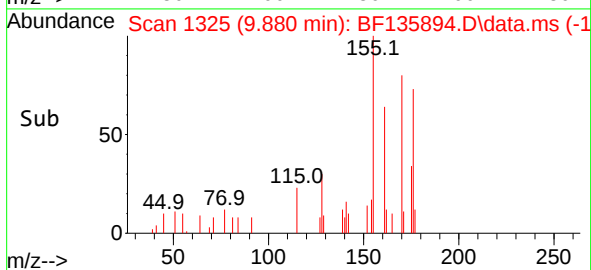
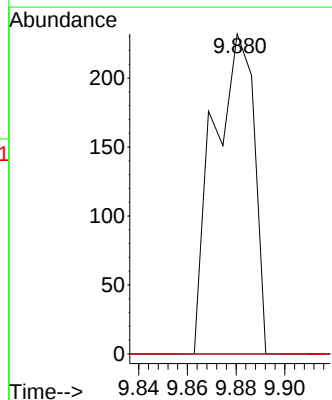
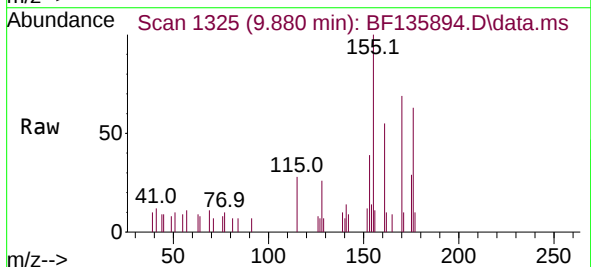
Instrument :
BNA_F
ClientSampleId :
R-1(10-15)DL

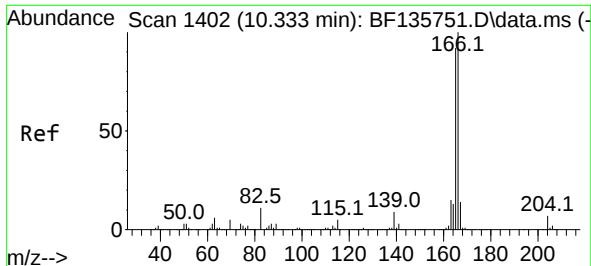
Tgt Ion:168 Resp: 21174
Ion Ratio Lower Upper
168 100
139 34.7 31.0 46.4
169 16.6 10.7 16.1#



#56
4-Nitrophenol
Concen: 5.821 ng
RT: 9.880 min Scan# 1325
Delta R.T. -0.065 min
Lab File: BF135894.D
Acq: 19 Oct 2023 19:17

Tgt Ion:139 Resp: 269
Ion Ratio Lower Upper
139 100
109 0.0 45.6 85.6#
65 0.0 87.5 127.5#

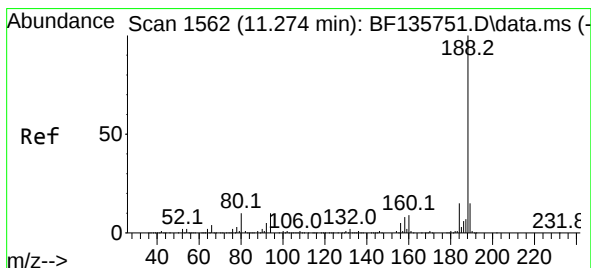
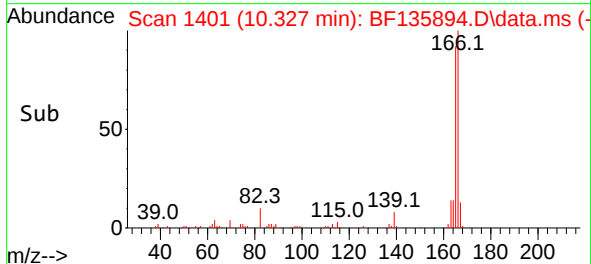
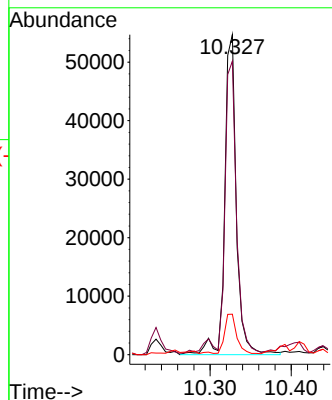
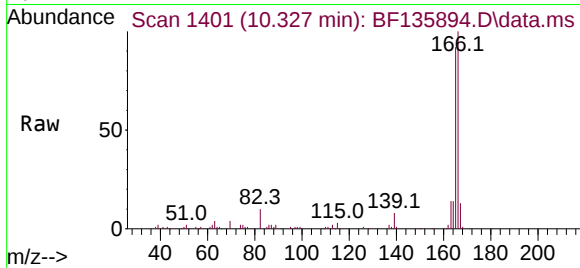




#58
Fluorene
Concen: 9.052 ng
RT: 10.327 min Scan# 1402
Delta R.T. -0.012 min
Lab File: BF135894.D
Acq: 19 Oct 2023 19:17

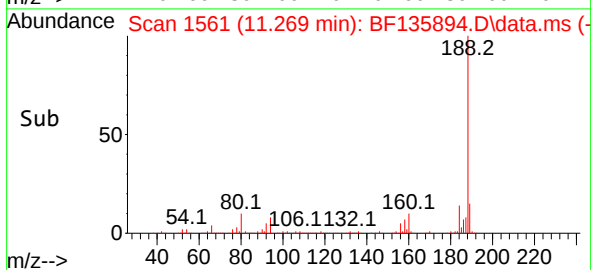
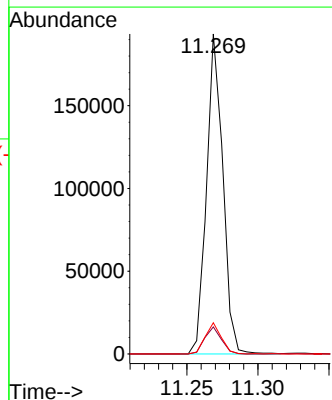
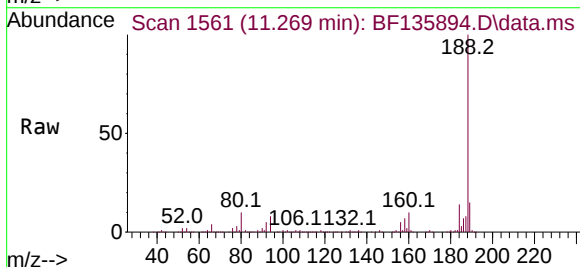
Instrument :
BNA_F
ClientSampleId :
R-1(10-15)DL

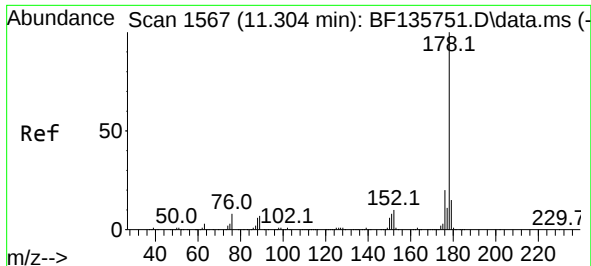
Tgt Ion:166 Resp: 54812
Ion Ratio Lower Upper
166 100
165 91.7 73.4 110.0
167 12.7 11.0 16.6



#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.269 min Scan# 1561
Delta R.T. -0.012 min
Lab File: BF135894.D
Acq: 19 Oct 2023 19:17

Tgt Ion:188 Resp: 155059
Ion Ratio Lower Upper
188 100
94 8.5 8.0 12.0
80 9.7 8.3 12.5

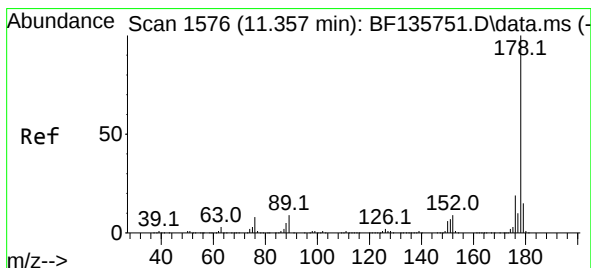
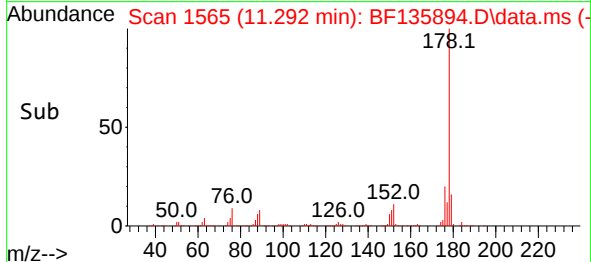
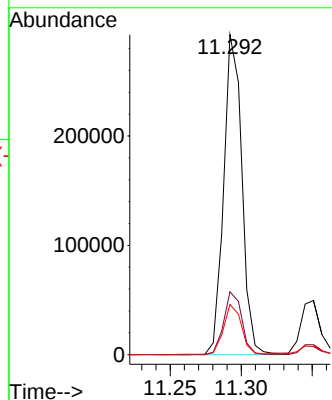
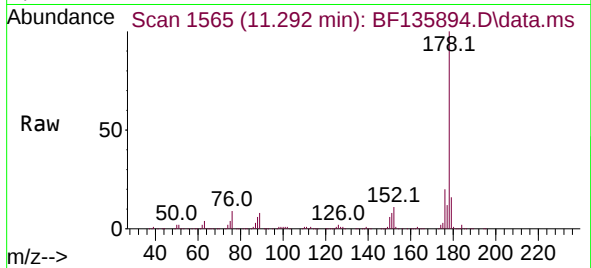




#71
Phenanthrene
Concen: 34.991 ng
RT: 11.292 min Scan# 1565
Delta R.T. -0.012 min
Lab File: BF135894.D
Acq: 19 Oct 2023 19:17

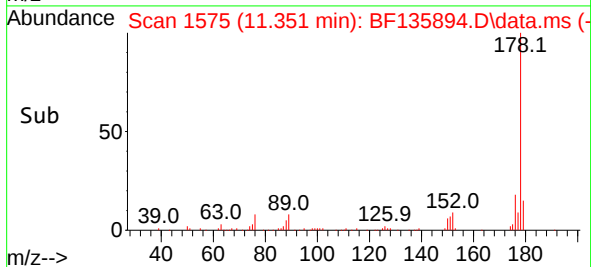
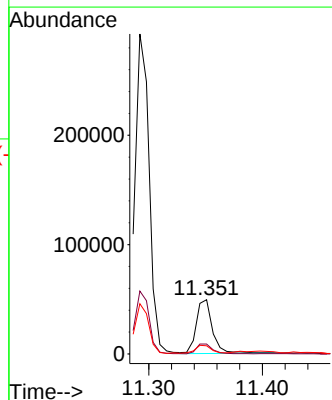
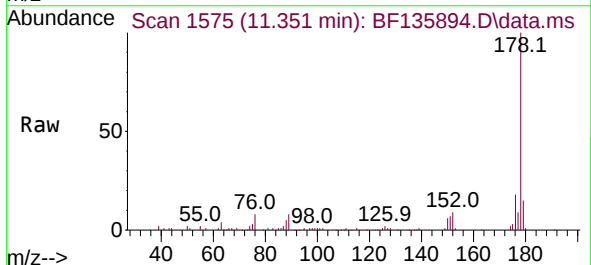
Instrument :
BNA_F
ClientSampleId :
R-1(10-15)DL

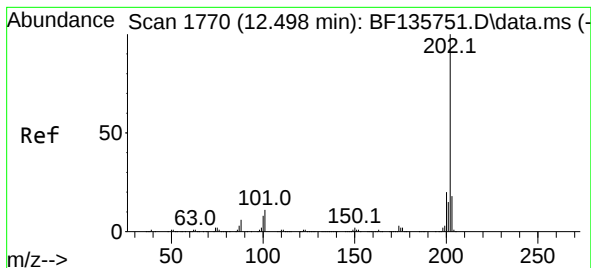
Tgt Ion:178 Resp: 259916
Ion Ratio Lower Upper
178 100
176 19.7 16.0 24.0
179 15.7 12.2 18.4



#72
Anthracene
Concen: 6.348 ng
RT: 11.351 min Scan# 1575
Delta R.T. -0.006 min
Lab File: BF135894.D
Acq: 19 Oct 2023 19:17

Tgt Ion:178 Resp: 48860
Ion Ratio Lower Upper
178 100
176 18.4 15.1 22.7
179 15.2 12.3 18.5





#75

Fluoranthene

Concen: 21.403 ng

RT: 12.492 min Scan# 1

Delta R.T. -0.012 min

Lab File: BF135894.D

Acq: 19 Oct 2023 19:17

Instrument :

BNA_F

ClientSampleId :

R-1(10-15)DL

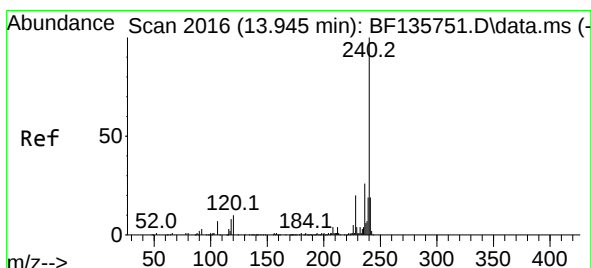
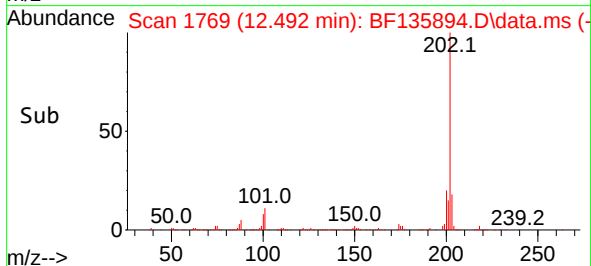
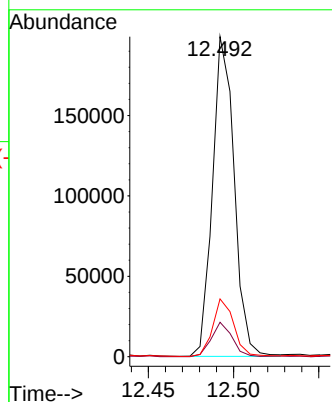
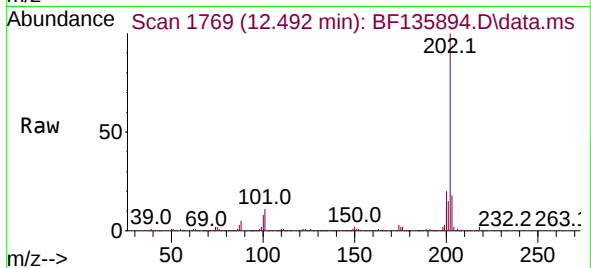
Tgt Ion:202 Resp: 176450

Ion Ratio Lower Upper

202 100

101 10.7 0.0 31.5

203 18.0 0.0 38.3



#76

Chrysene-d12

Concen: 20.000 ng

RT: 13.939 min Scan# 2015

Delta R.T. -0.012 min

Lab File: BF135894.D

Acq: 19 Oct 2023 19:17

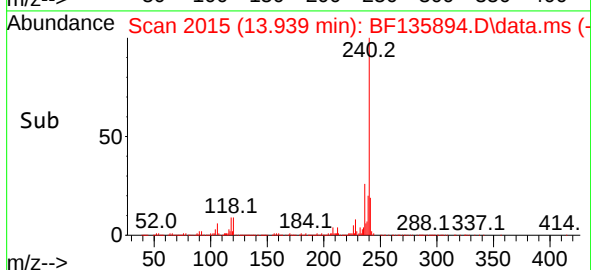
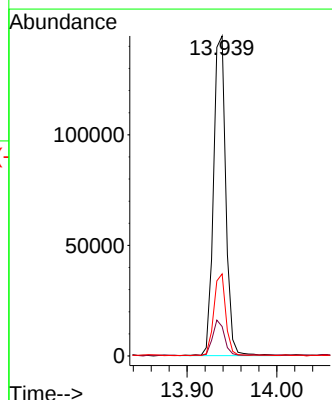
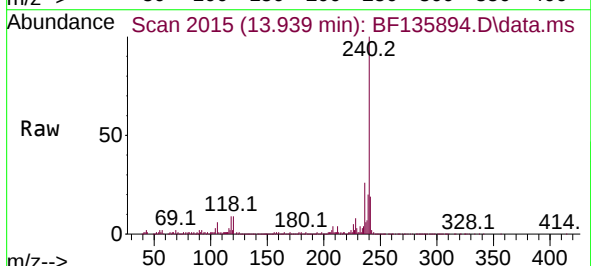
Tgt Ion:240 Resp: 137581

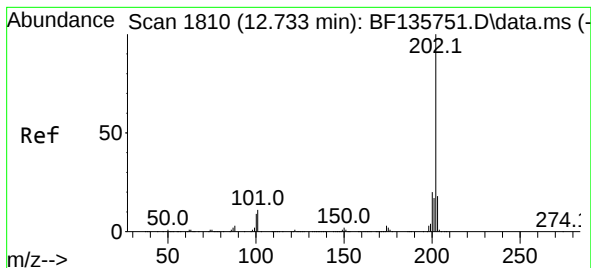
Ion Ratio Lower Upper

240 100

120 9.2 8.2 12.2

236 25.7 21.2 31.8





#78

Pyrene

Concen: 16.404 ng

RT: 12.727 min Scan# 1809

Delta R.T. -0.006 min

Lab File: BF135894.D

Acq: 19 Oct 2023 19:17

Instrument :

BNA_F

ClientSampleId :

R-1(10-15)DL

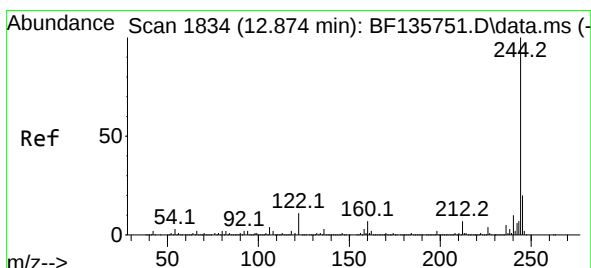
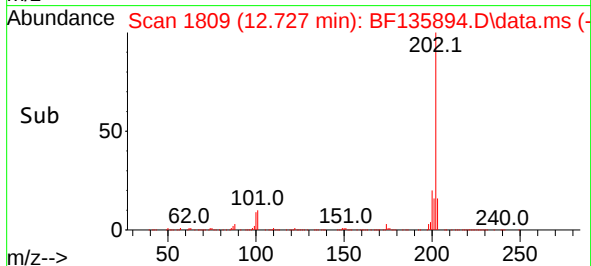
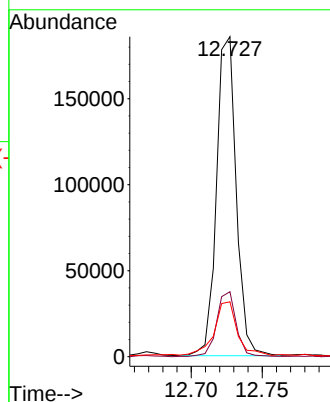
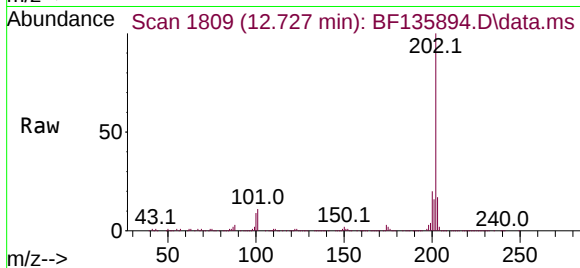
Tgt Ion:202 Resp: 179342

Ion Ratio Lower Upper

202 100

200 20.3 16.1 24.1

203 17.2 14.2 21.2



#79

Terphenyl-d14

Concen: 15.266 ng

RT: 12.863 min Scan# 1832

Delta R.T. -0.018 min

Lab File: BF135894.D

Acq: 19 Oct 2023 19:17

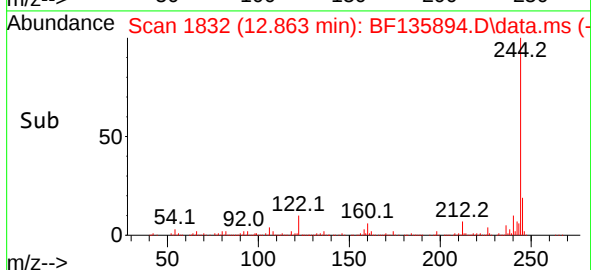
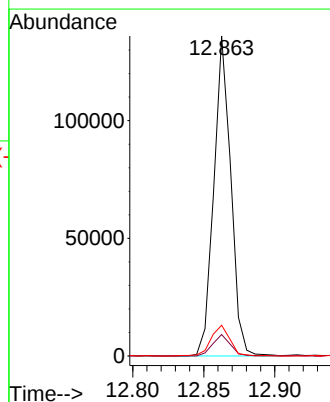
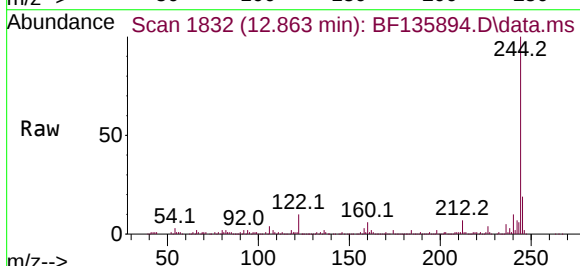
Tgt Ion:244 Resp: 113410

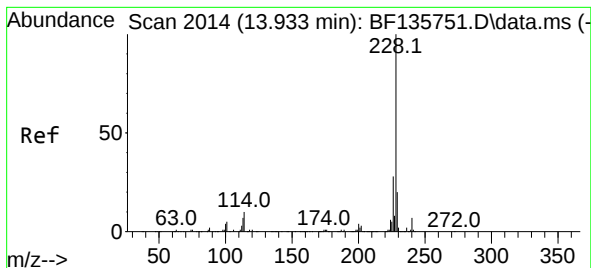
Ion Ratio Lower Upper

244 100

212 6.7 5.6 8.4

122 9.6 9.0 13.6





#81

Benzo(a)anthracene

Concen: 7.879 ng

RT: 13.927 min Scan# 2019

Delta R.T. -0.012 min

Lab File: BF135894.D

Acq: 19 Oct 2023 19:17

Instrument :

BNA_F

ClientSampleId :

R-1(10-15)DL

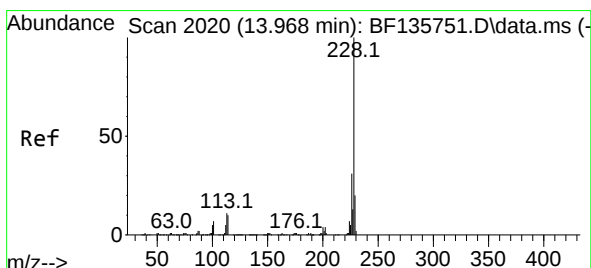
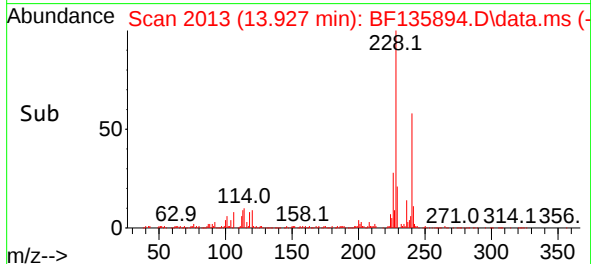
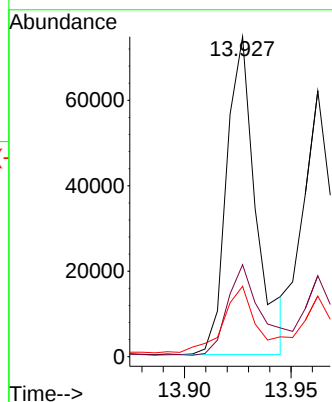
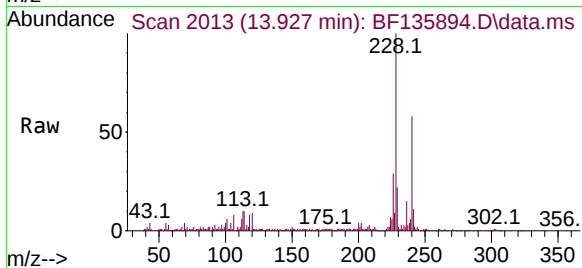
Tgt Ion:228 Resp: 71200

Ion Ratio Lower Upper

228 100

226 28.8 22.2 33.2

229 22.0 16.1 24.1



#83

Chrysene

Concen: 6.792 ng

RT: 13.963 min Scan# 2019

Delta R.T. -0.012 min

Lab File: BF135894.D

Acq: 19 Oct 2023 19:17

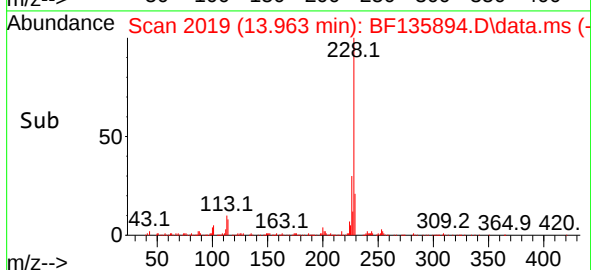
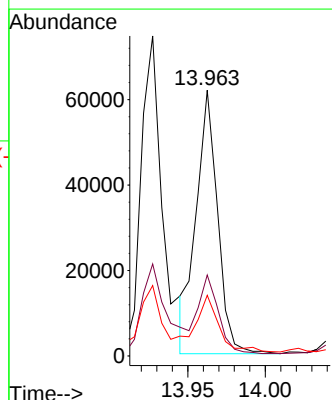
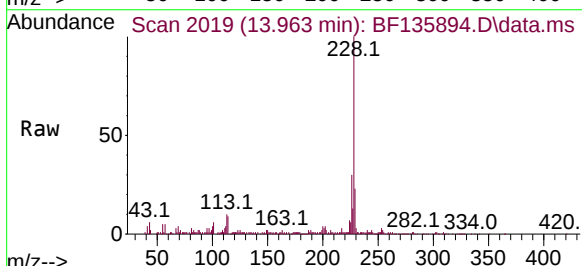
Tgt Ion:228 Resp: 59452

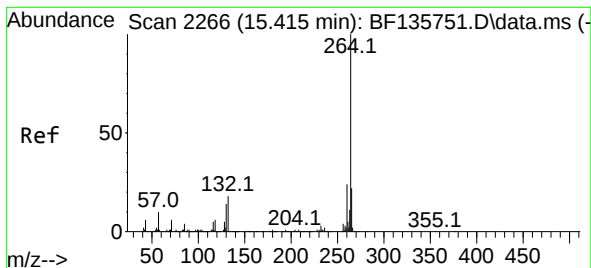
Ion Ratio Lower Upper

228 100

226 30.4 24.4 36.6

229 22.8 15.7 23.5





#86

Perylene-d12

Concen: 20.000 ng

RT: 15.415 min Scan# 21

Delta R.T. -0.006 min

Lab File: BF135894.D

Acq: 19 Oct 2023 19:17

Instrument :

BNA_F

ClientSampleId :

R-1(10-15)DL

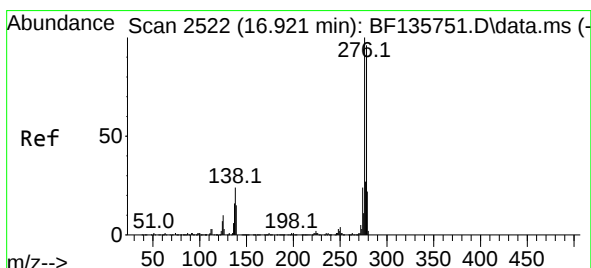
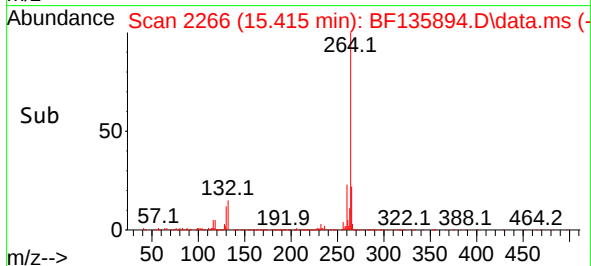
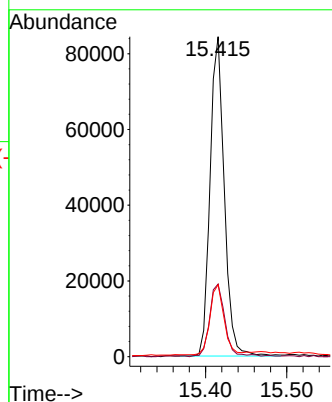
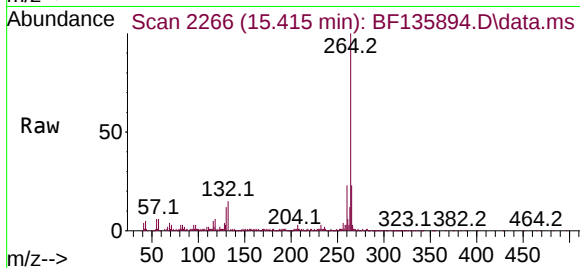
Tgt Ion:264 Resp: 102351

Ion Ratio Lower Upper

264 100

260 22.7 19.2 28.8

265 22.5 17.4 26.2



#87

Indeno(1,2,3-cd)pyrene

Concen: 3.237 ng

RT: 16.933 min Scan# 2524

Delta R.T. -0.000 min

Lab File: BF135894.D

Acq: 19 Oct 2023 19:17

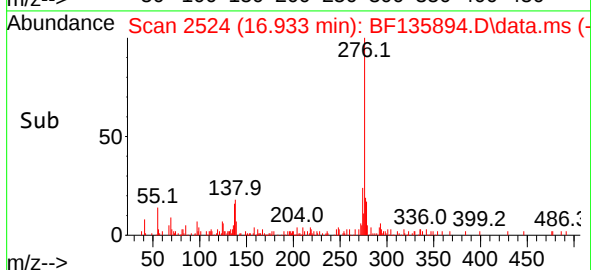
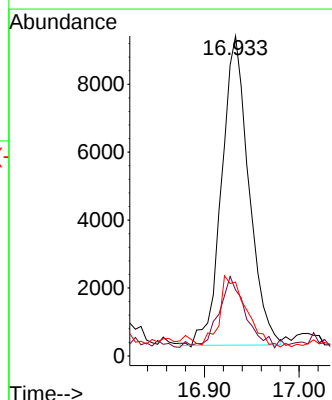
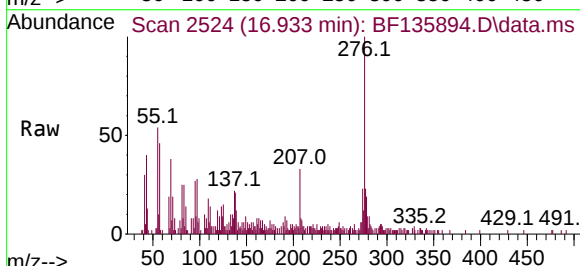
Tgt Ion:276 Resp: 18053

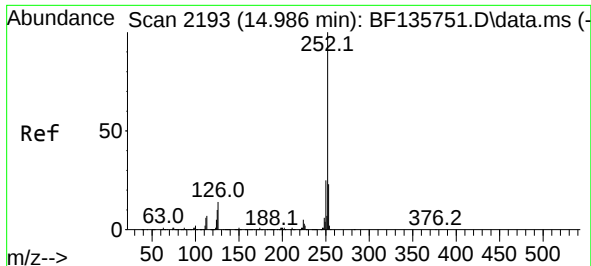
Ion Ratio Lower Upper

276 100

138 21.9 19.8 29.6

277 22.5 20.2 30.4

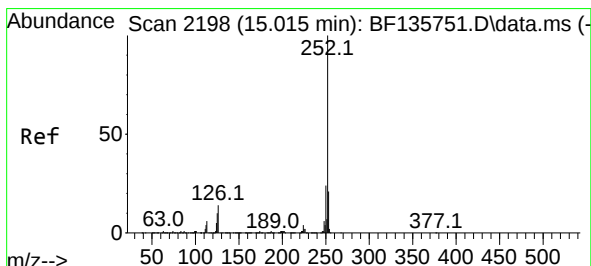
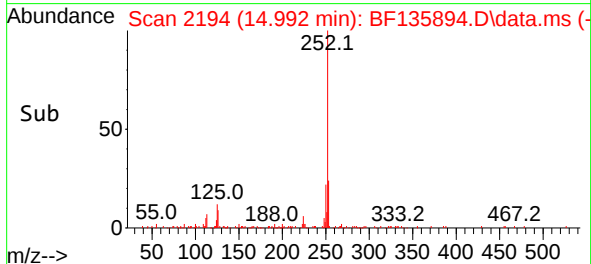
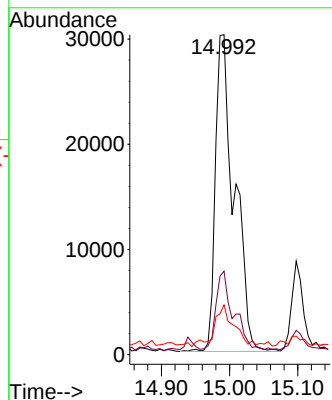
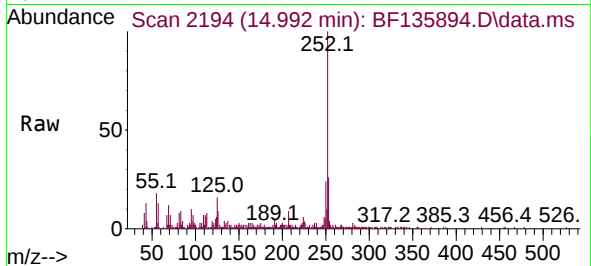




#88
Benzo(b)fluoranthene
Concen: 10.200 ng
RT: 14.992 min Scan# 2194
Delta R.T. -0.000 min
Lab File: BF135894.D
Acq: 19 Oct 2023 19:17

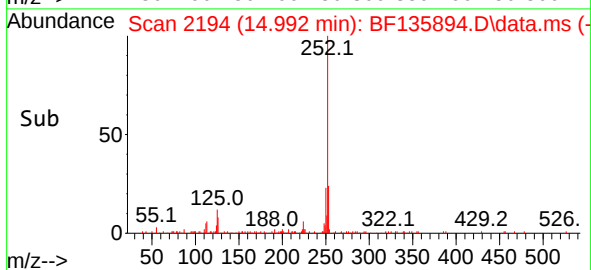
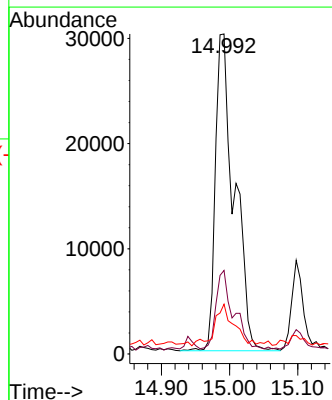
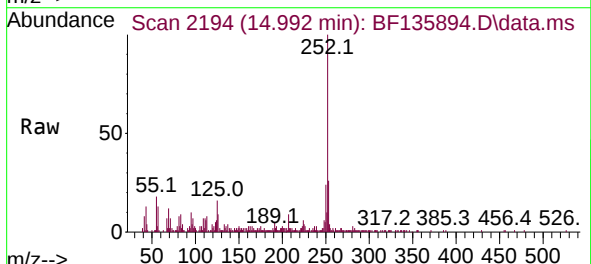
Instrument :
BNA_F
ClientSampleId :
R-1(10-15)DL

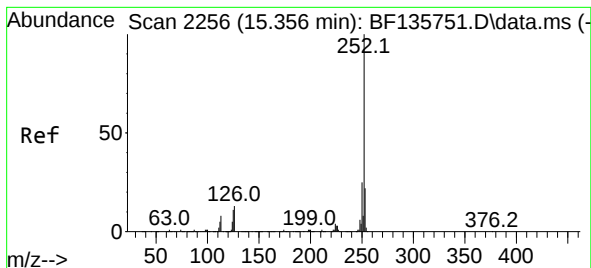
Tgt Ion:252 Resp: 58429
Ion Ratio Lower Upper
252 100
253 26.1 18.2 27.2
125 15.6 8.2 12.2#



#89
Benzo(k)fluoranthene
Concen: 10.506 ng
RT: 14.992 min Scan# 2194
Delta R.T. -0.030 min
Lab File: BF135894.D
Acq: 19 Oct 2023 19:17

Tgt Ion:252 Resp: 58429
Ion Ratio Lower Upper
252 100
253 26.1 17.4 26.0#
125 15.6 8.3 12.5#





#90

Benzo(a)pyrene

Concen: 7.052 ng

RT: 15.357 min Scan# 21

Delta R.T. -0.006 min

Lab File: BF135894.D

Acq: 19 Oct 2023 19:17

Instrument :

BNA_F

ClientSampleId :

R-1(10-15)DL

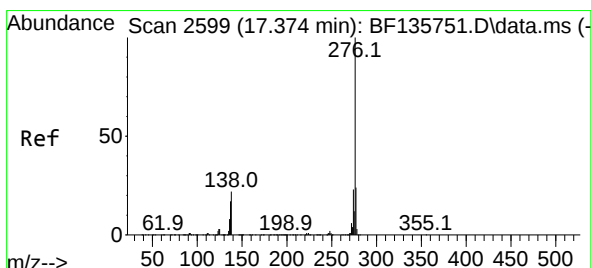
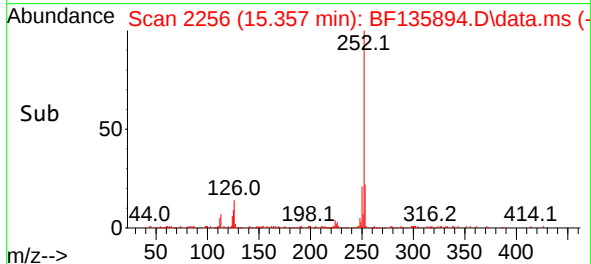
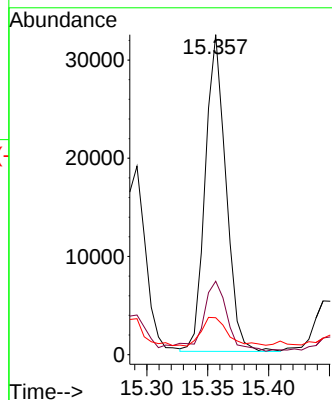
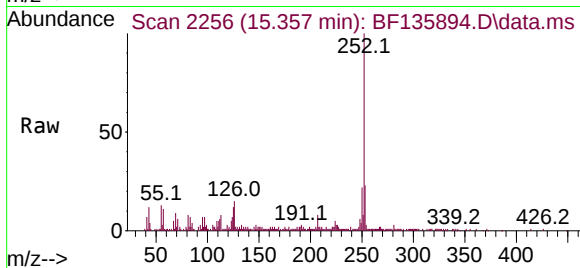
Tgt Ion:252 Resp: 37986

Ion Ratio Lower Upper

252 100

253 22.9 17.4 26.2

125 11.6 8.8 13.2



#92

Benzo(g,h,i)perylene

Concen: 3.490 ng

RT: 17.392 min Scan# 2602

Delta R.T. 0.006 min

Lab File: BF135894.D

Acq: 19 Oct 2023 19:17

Tgt Ion:276 Resp: 16388

Ion Ratio Lower Upper

276 100

277 26.2 19.4 29.2

138 29.8 17.3 25.9#

