

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF103023\
 Data File : BF136042.D
 Acq On : 30 Oct 2023 22:34
 Operator : CG\JU
 Sample : 04704-04DL2 25X
 Misc :
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 R-3(10-15)DL

Quant Time: Oct 31 01:42:58 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF103023.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Oct 31 01:13:02 2023
 Response via : Initial Calibration

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

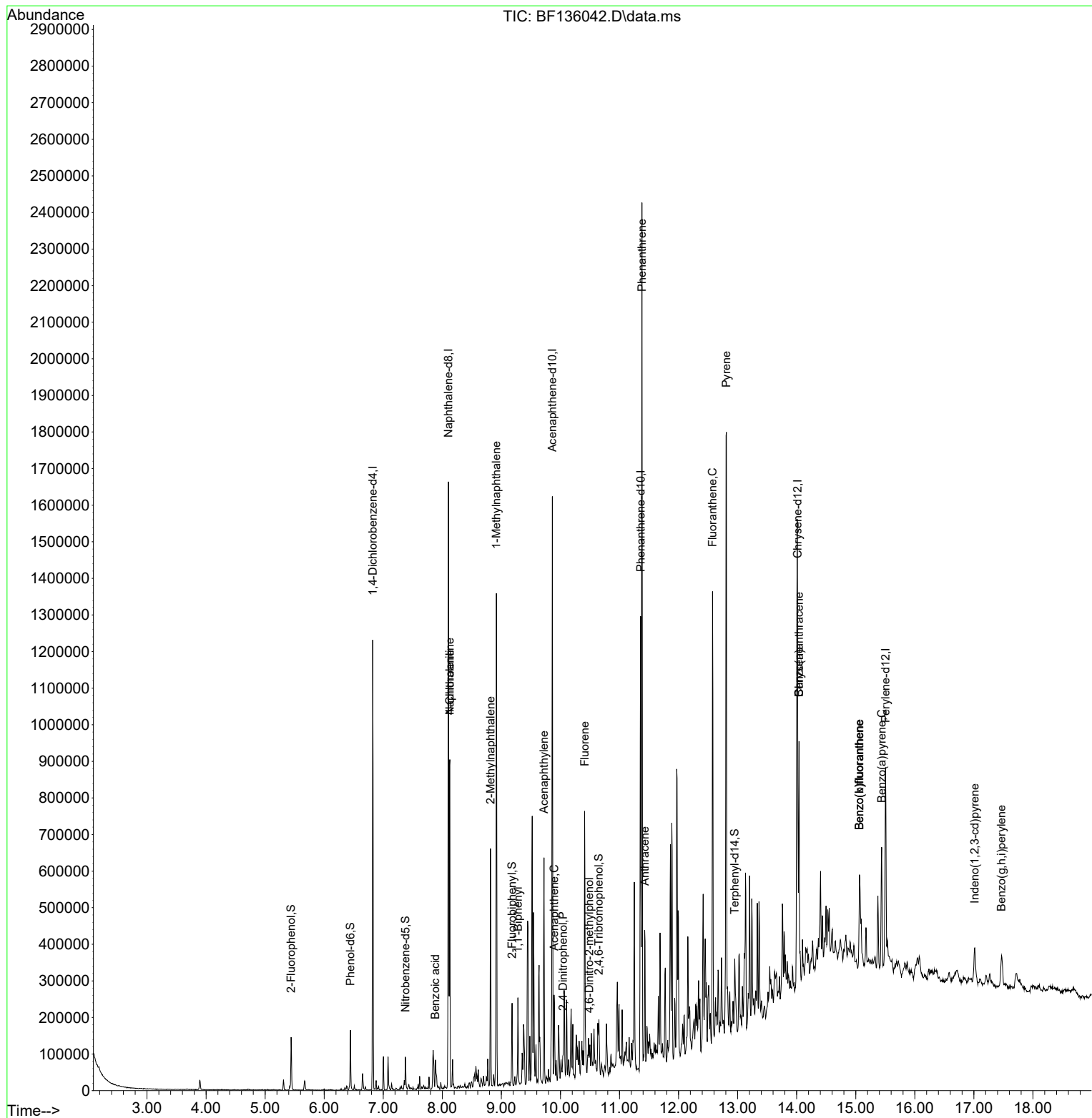
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.822	152	169061	20.000	ng	0.00
21) Naphthalene-d8	8.104	136	631669	20.000	ng	0.00
39) Acenaphthene-d10	9.863	164	282037	20.000	ng	0.00
64) Phenanthrene-d10	11.357	188	437274	20.000	ng	0.00
76) Chrysene-d12	14.016	240	330041	20.000	ng	0.00
86) Perylene-d12	15.504	264	256245	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.440	112	36756	3.416	ng	-0.01
7) Phenol-d6	6.445	99	48558	3.623	ng	-0.01
23) Nitrobenzene-d5	7.375	82	24800	2.367	ng	-0.02
42) 2,4,6-Tribromophenol	10.651	330	6723	2.233	ng	0.00
45) 2-Fluorobiphenyl	9.181	172	56329	3.184	ng	0.00
79) Terphenyl-d14	12.951	244	52742	2.483	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.128	128	382425	12.555	ng	99
32) Benzoic acid	7.881	122	261	5.146	ng	# 1
33) 4-Chloroaniline	8.128	127	49408	3.704	ng	# 34
37) 2-Methylnaphthalene	8.816	142	145752	7.136	ng	98
38) 1-Methylnaphthalene	8.916	142	307564	16.182	ng	100
46) 1,1'-Biphenyl	9.281	154	61951	2.881	ng	98
49) Acenaphthylene	9.722	152	150658	6.093	ng	97
52) Acenaphthene	9.892	154	42799	2.723	ng	98
54) 2,4-Dinitrophenol	10.045	184	65	8.004	ng	# 1
58) Fluorene	10.410	166	180642	10.526	ng	99
65) 4,6-Dinitro-2-methylph...	10.486	198	119	5.834	ng	# 1
71) Phenanthrene	11.380	178	812111	36.886	ng	99
72) Anthracene	11.428	178	141967	6.293	ng	99
75) Fluoranthene	12.574	202	455379	20.133	ng	100
78) Pyrene	12.810	202	726671	24.973	ng	99
81) Benzo(a)anthracene	14.039	228	258894	11.849	ng	94
83) Chrysene	14.039	228	258894	12.031	ng	97
87) Indeno(1,2,3-cd)pyrene	17.015	276	67929	4.056	ng	97
88) Benzo(b)fluoranthene	15.063	252	210759	13.900	ng	# 97
89) Benzo(k)fluoranthene	15.063	252	210759	14.048	ng	# 96
90) Benzo(a)pyrene	15.439	252	160699	11.407	ng	95
92) Benzo(g,h,i)perylene	17.468	276	74402	7.371	ng	97

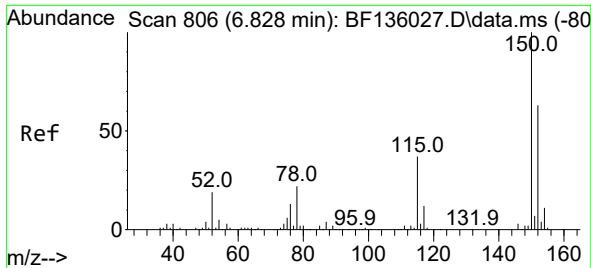
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF103023\
Data File : BF136042.D
Acq On : 30 Oct 2023 22:34
Operator : CG\JU
Sample : 04704-04DL2 25X
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
R-3(10-15)DL

Quant Time: Oct 31 01:42:58 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF103023.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 31 01:13:02 2023
Response via : Initial Calibration

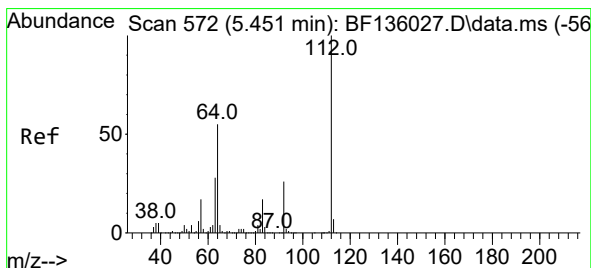
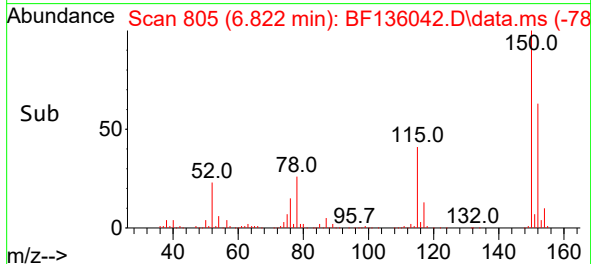
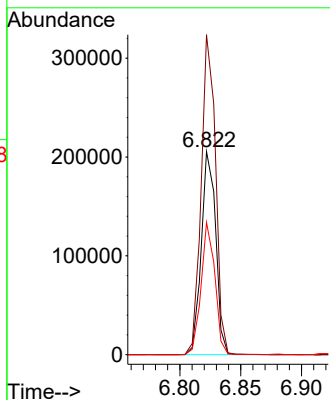
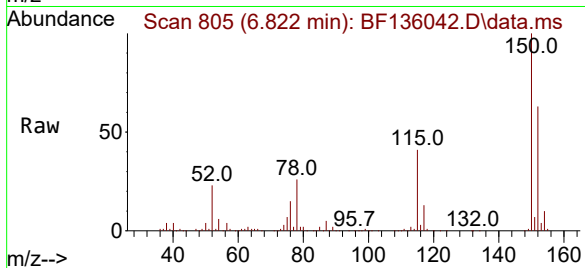




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.822 min Scan# 806
Delta R.T. -0.006 min
Lab File: BF136042.D
Acq: 30 Oct 2023 22:34

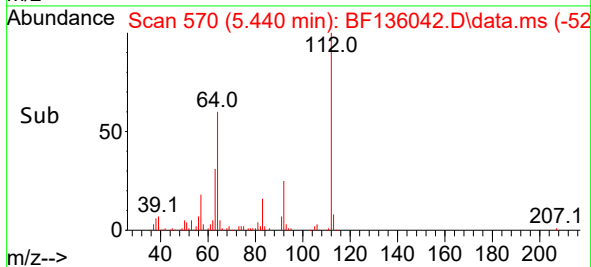
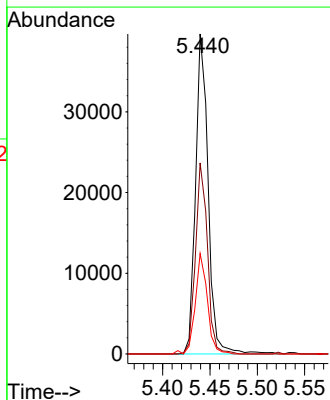
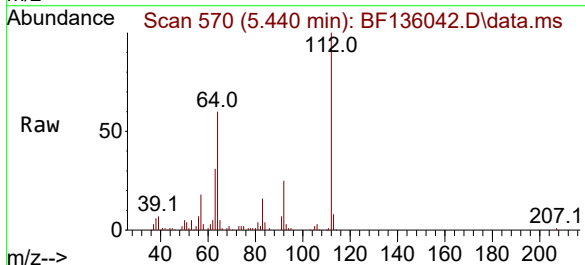
Instrument :
BNA_F
ClientSampleId :
R-3(10-15)DL

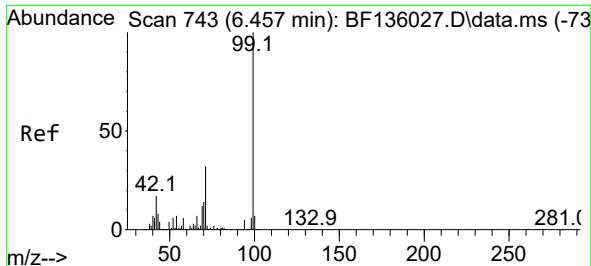
Tgt Ion:152 Resp: 169061
Ion Ratio Lower Upper
152 100
150 157.5 126.4 189.6
115 65.2 47.0 70.4



#5
2-Fluorophenol
Concen: 3.416 ng
RT: 5.440 min Scan# 570
Delta R.T. -0.012 min
Lab File: BF136042.D
Acq: 30 Oct 2023 22:34

Tgt Ion:112 Resp: 36756
Ion Ratio Lower Upper
112 100
64 59.7 43.9 65.9
63 31.4 22.4 33.6

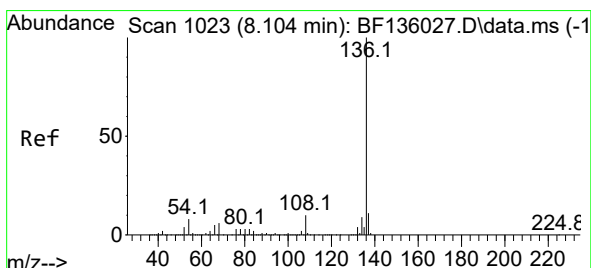
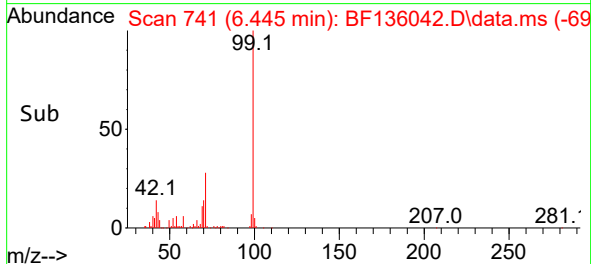
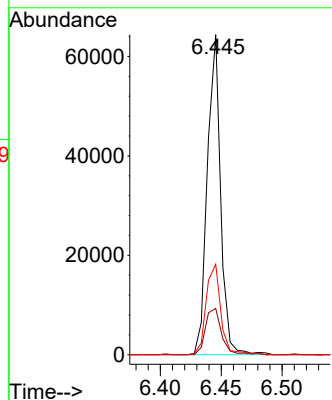
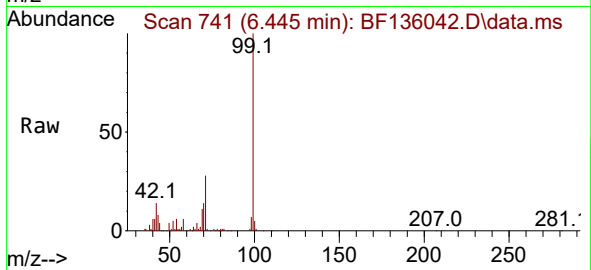




#7
Phenol-d6
Concen: 3.623 ng
RT: 6.445 min Scan# 741
Delta R.T. -0.012 min
Lab File: BF136042.D
Acq: 30 Oct 2023 22:34

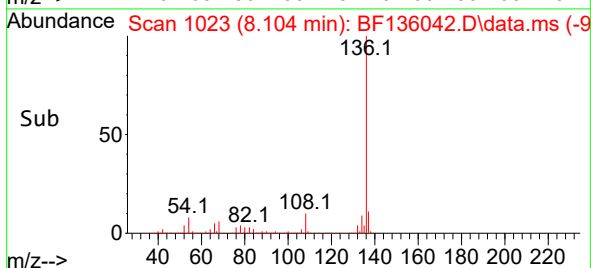
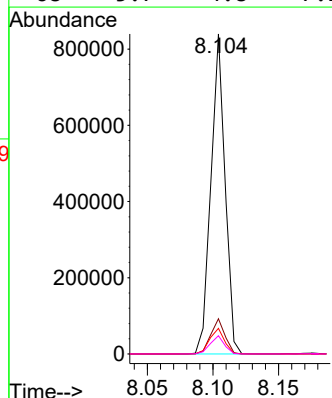
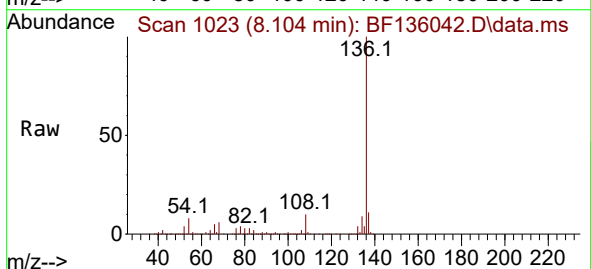
Instrument :
BNA_F
ClientSampleId :
R-3(10-15)DL

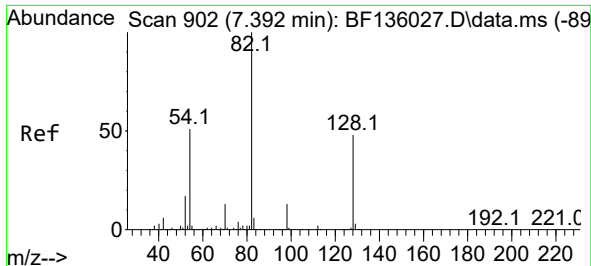
Tgt Ion: 99 Resp: 48558
Ion Ratio Lower Upper
99 100
42 14.5 13.7 20.5
71 28.2 25.9 38.9



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.104 min Scan# 1023
Delta R.T. 0.000 min
Lab File: BF136042.D
Acq: 30 Oct 2023 22:34

Tgt Ion: 136 Resp: 631669
Ion Ratio Lower Upper
136 100
137 11.0 8.6 13.0
54 8.0 6.6 9.8
68 5.7 4.8 7.2





#23

Nitrobenzene-d5

Concen: 2.367 ng

RT: 7.375 min Scan# 89

Delta R.T. -0.017 min

Lab File: BF136042.D

Acq: 30 Oct 2023 22:34

Instrument :

BNA_F

ClientSampleId :

R-3(10-15)DL

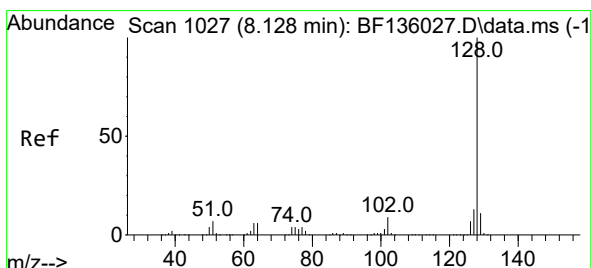
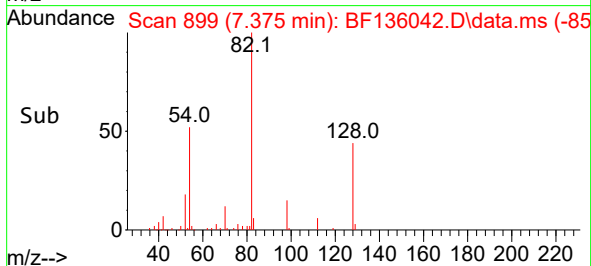
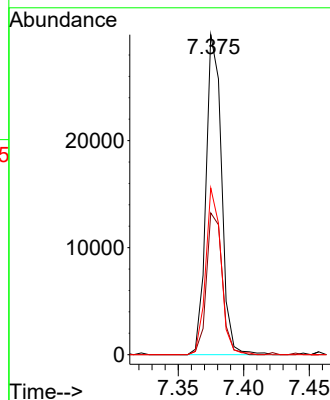
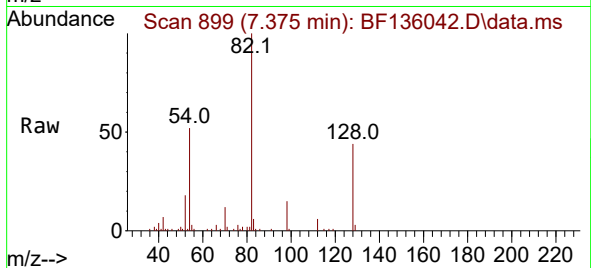
Tgt Ion: 82 Resp: 24800

Ion Ratio Lower Upper

82 100

128 44.3 38.6 57.8

54 52.1 40.8 61.2



#31

Naphthalene

Concen: 12.555 ng

RT: 8.128 min Scan# 1027

Delta R.T. 0.000 min

Lab File: BF136042.D

Acq: 30 Oct 2023 22:34

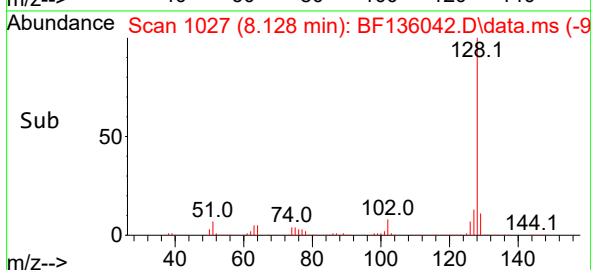
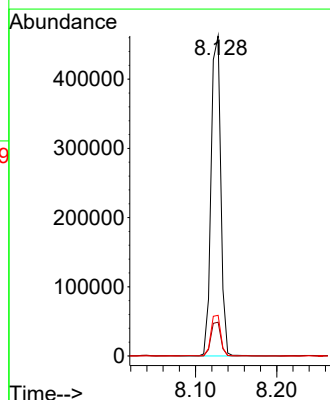
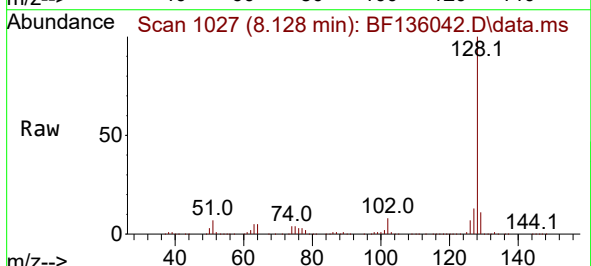
Tgt Ion:128 Resp: 382425

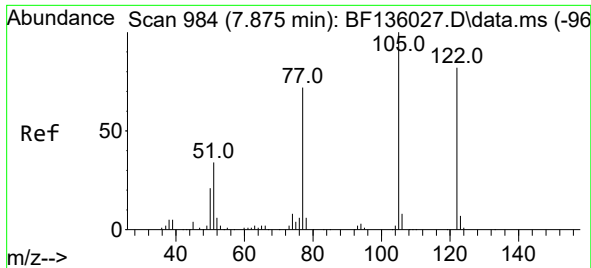
Ion Ratio Lower Upper

128 100

129 10.6 8.9 13.3

127 12.7 10.5 15.7

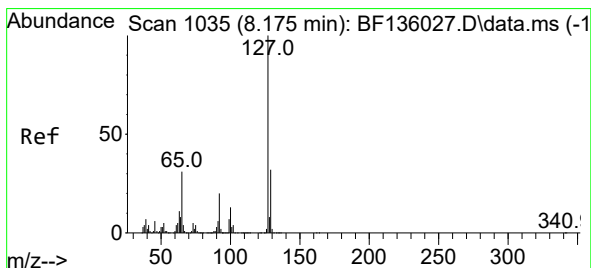
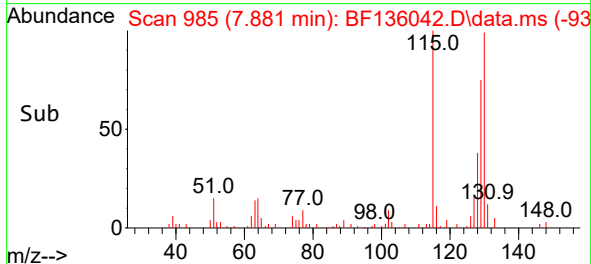
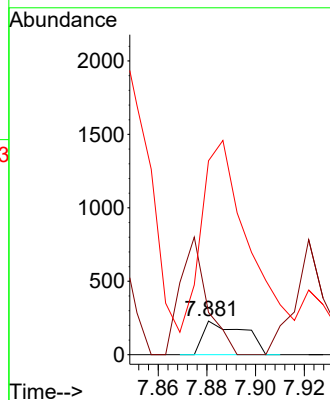
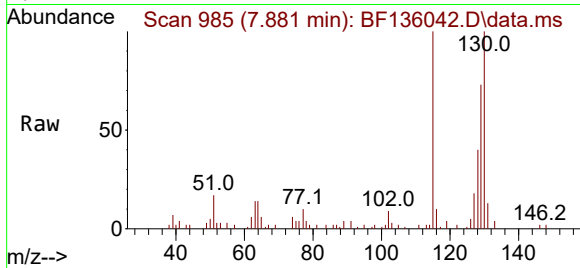




#32
Benzoic acid
Concen: 5.146 ng
RT: 7.881 min Scan# 91
Delta R.T. 0.006 min
Lab File: BF136042.D
Acq: 30 Oct 2023 22:34

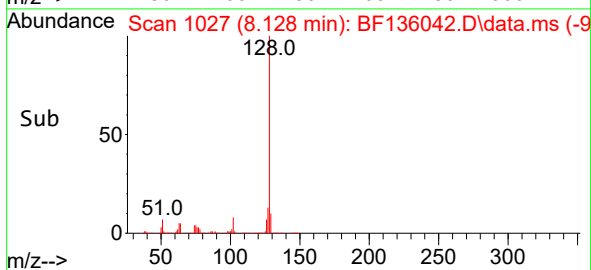
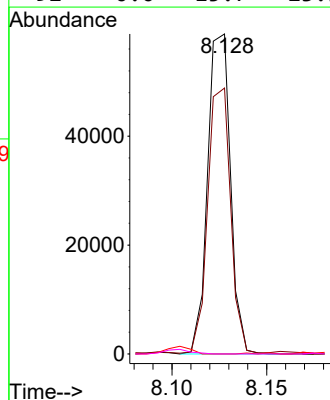
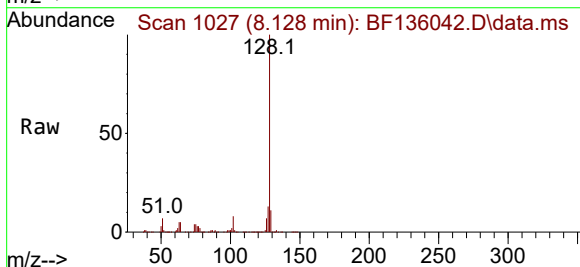
Instrument :
BNA_F
ClientSampleId :
R-3(10-15)DL

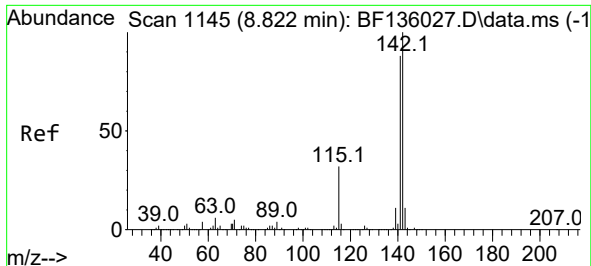
Tgt Ion:122 Resp: 261
Ion Ratio Lower Upper
122 100
105 125.8 99.5 139.5
77 576.9 66.8 106.8#



#33
4-Chloroaniline
Concen: 3.704 ng
RT: 8.128 min Scan# 1027
Delta R.T. -0.047 min
Lab File: BF136042.D
Acq: 30 Oct 2023 22:34

Tgt Ion:127 Resp: 49408
Ion Ratio Lower Upper
127 100
129 83.1 25.9 38.9#
65 0.0 24.6 37.0#
92 0.0 15.7 23.5#





#37

2-Methylnaphthalene

Concen: 7.136 ng

RT: 8.816 min Scan# 1144

Delta R.T. -0.006 min

Lab File: BF136042.D

Acq: 30 Oct 2023 22:34

Instrument :

BNA_F

ClientSampleId :

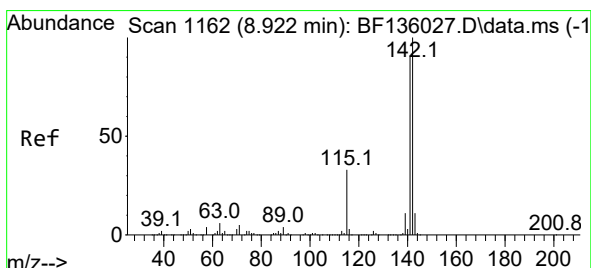
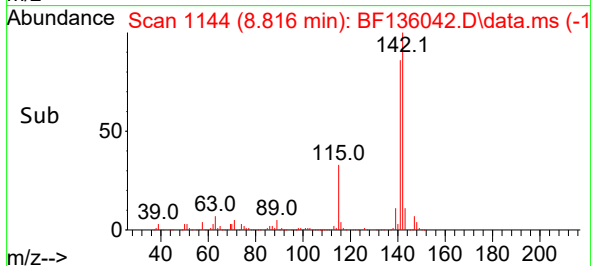
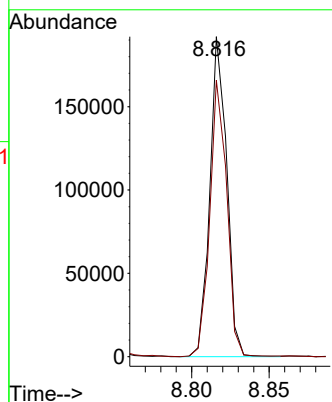
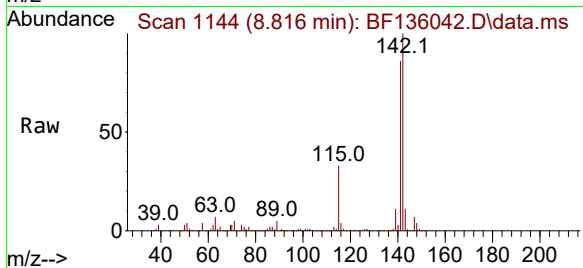
R-3(10-15)DL

Tgt Ion:142 Resp: 145752

Ion Ratio Lower Upper

142 100

141 86.4 70.4 105.6



#38

1-Methylnaphthalene

Concen: 16.182 ng

RT: 8.916 min Scan# 1161

Delta R.T. -0.006 min

Lab File: BF136042.D

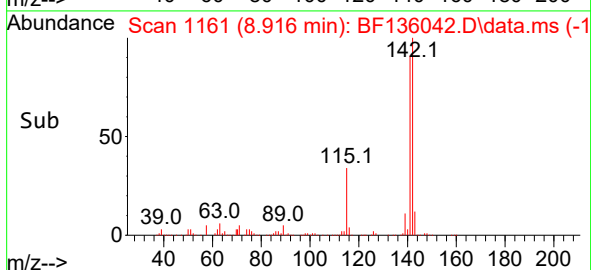
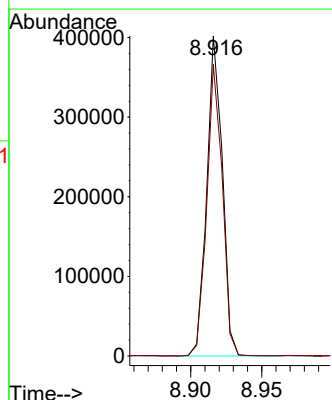
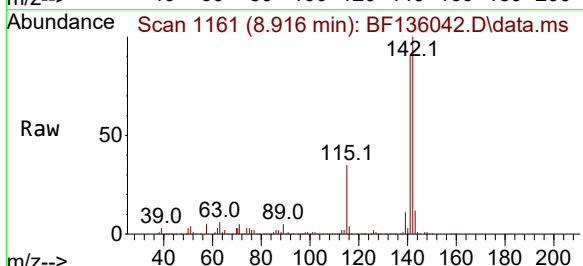
Acq: 30 Oct 2023 22:34

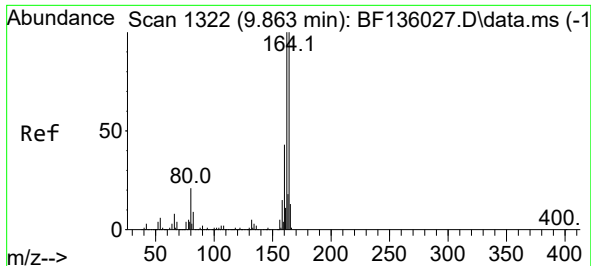
Tgt Ion:142 Resp: 307564

Ion Ratio Lower Upper

142 100

141 91.1 72.6 109.0

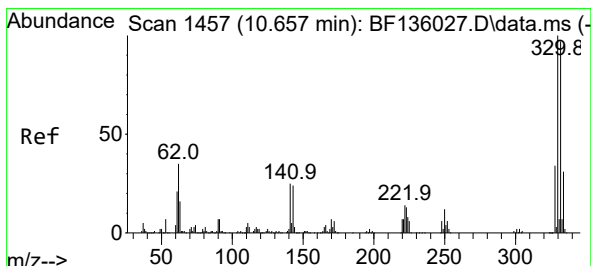
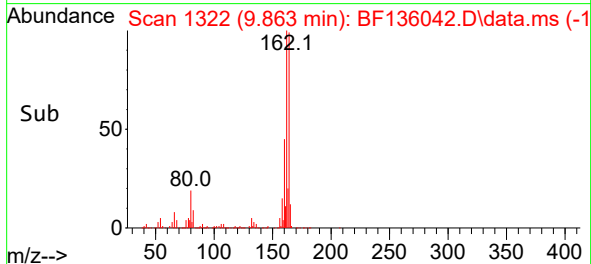
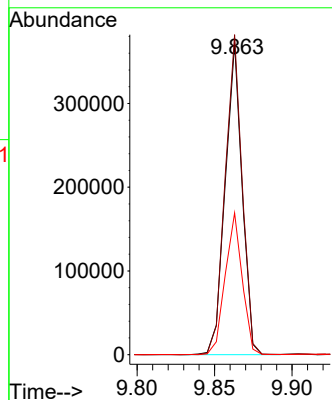
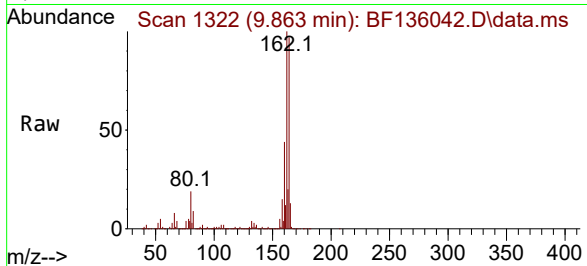




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.863 min Scan# 11
Delta R.T. -0.000 min
Lab File: BF136042.D
Acq: 30 Oct 2023 22:34

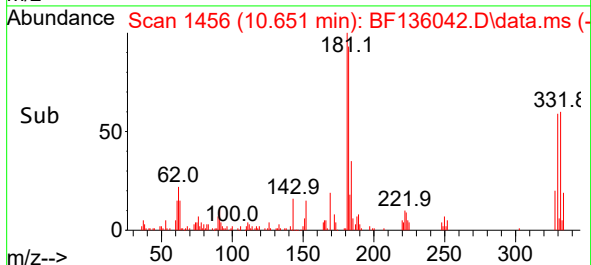
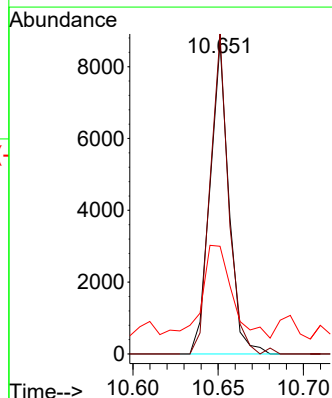
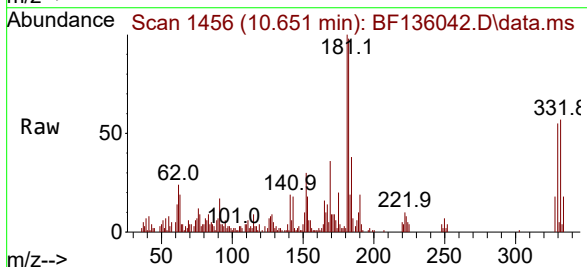
Instrument :
BNA_F
ClientSampleId :
R-3(10-15)DL

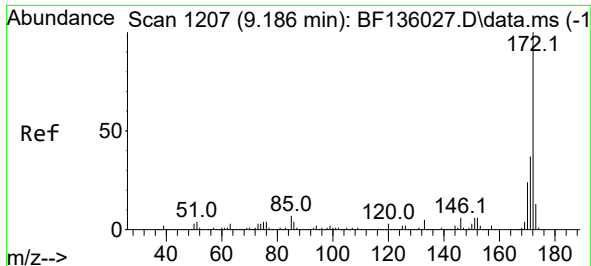
Tgt Ion:164 Resp: 282037
Ion Ratio Lower Upper
164 100
162 102.6 80.1 120.1
160 45.5 34.8 52.2



#42
2,4,6-Tribromophenol
Concen: 2.233 ng
RT: 10.651 min Scan# 1456
Delta R.T. -0.006 min
Lab File: BF136042.D
Acq: 30 Oct 2023 22:34

Tgt Ion:330 Resp: 6723
Ion Ratio Lower Upper
330 100
332 100.2 76.9 115.3
141 45.4 23.2 34.8#





#45

2-Fluorobiphenyl

Concen: 3.184 ng

RT: 9.181 min Scan# 11

Delta R.T. -0.006 min

Lab File: BF136042.D

Acq: 30 Oct 2023 22:34

Instrument :

BNA_F

ClientSampleId :

R-3(10-15)DL

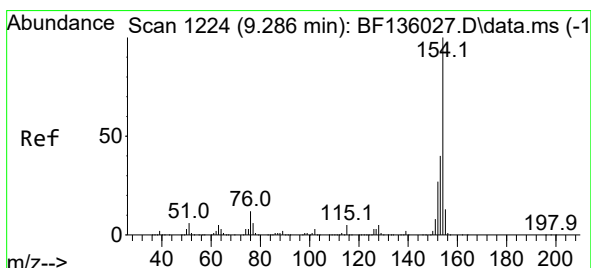
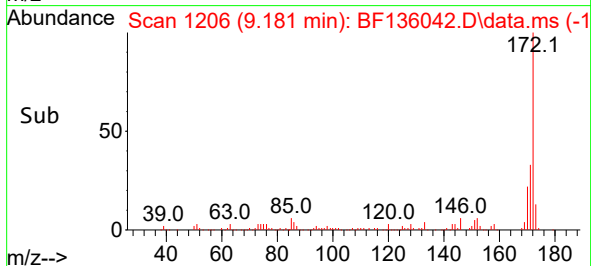
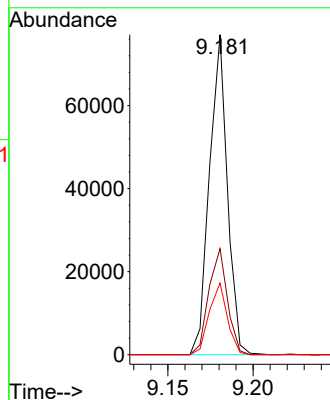
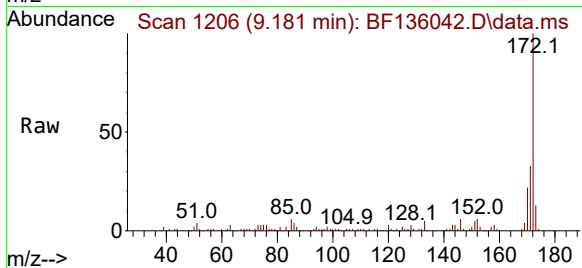
Tgt Ion:172 Resp: 56329

Ion Ratio Lower Upper

172 100

171 33.2 29.4 44.0

170 22.4 19.3 28.9



#46

1,1'-Biphenyl

Concen: 2.881 ng

RT: 9.281 min Scan# 1223

Delta R.T. -0.006 min

Lab File: BF136042.D

Acq: 30 Oct 2023 22:34

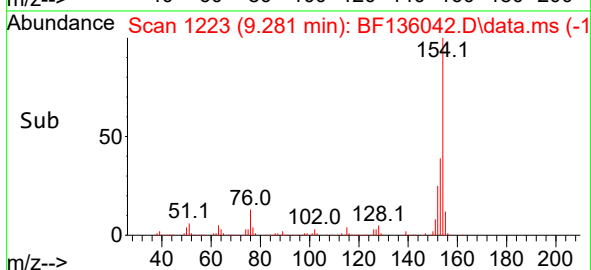
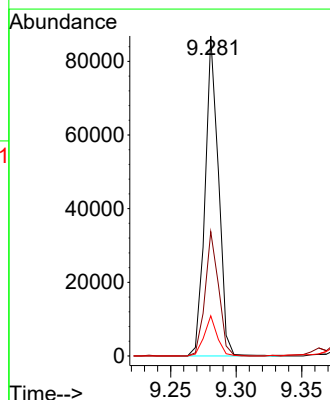
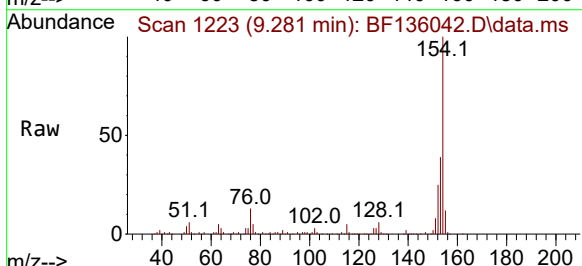
Tgt Ion:154 Resp: 61951

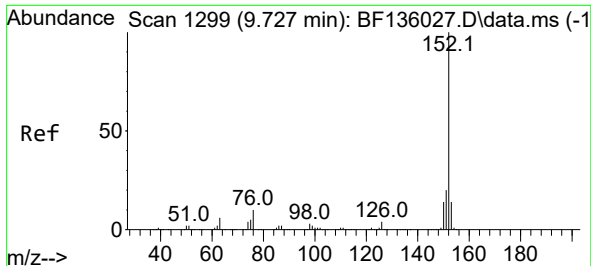
Ion Ratio Lower Upper

154 100

153 38.9 20.1 60.1

76 12.5 0.0 32.5





#49

Acenaphthylene

Concen: 6.093 ng

RT: 9.722 min Scan# 1299

Delta R.T. -0.006 min

Lab File: BF136042.D

Acq: 30 Oct 2023 22:34

Instrument :

BNA_F

ClientSampleId :

R-3(10-15)DL

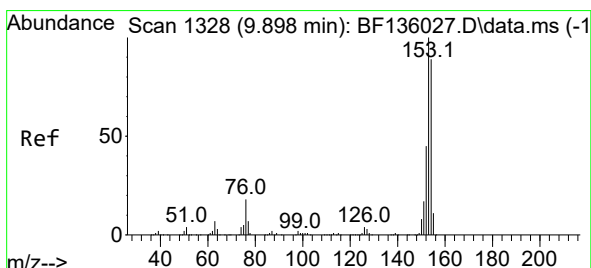
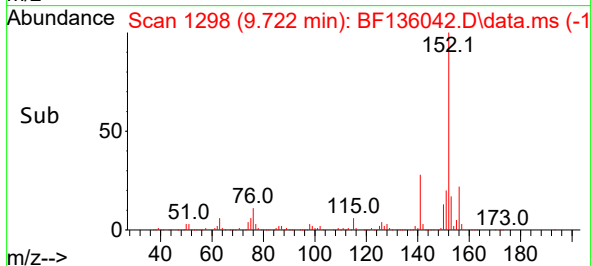
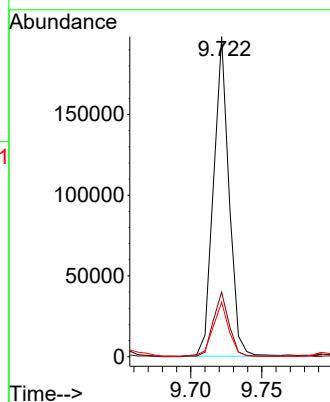
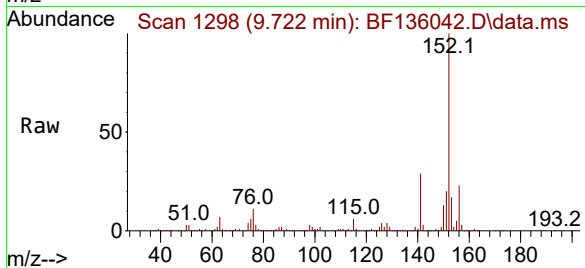
Tgt Ion:152 Resp: 150658

Ion Ratio Lower Upper

152 100

151 20.2 16.1 24.1

153 17.0 11.4 17.2



#52

Acenaphthene

Concen: 2.723 ng

RT: 9.892 min Scan# 1327

Delta R.T. -0.006 min

Lab File: BF136042.D

Acq: 30 Oct 2023 22:34

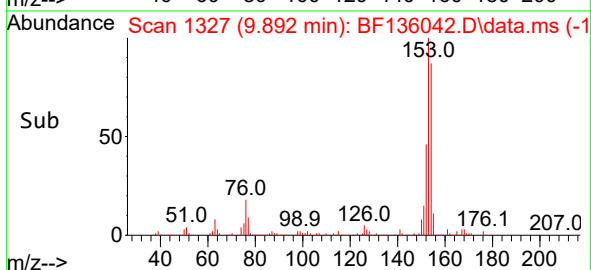
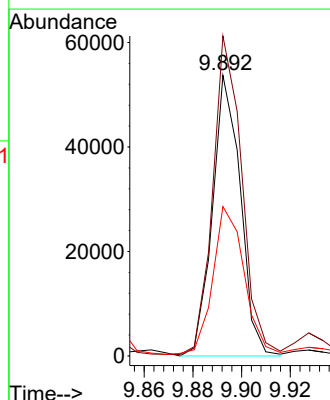
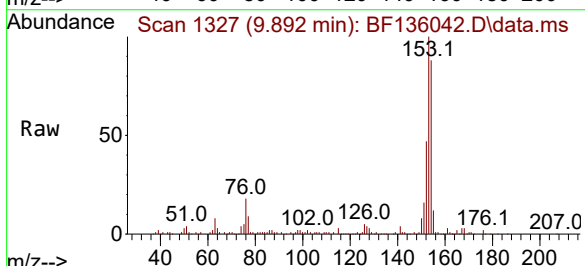
Tgt Ion:154 Resp: 42799

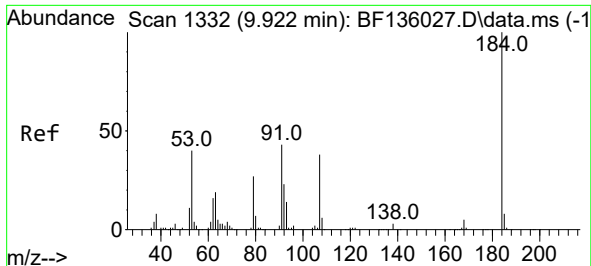
Ion Ratio Lower Upper

154 100

153 114.0 89.9 134.9

152 53.3 40.2 60.2

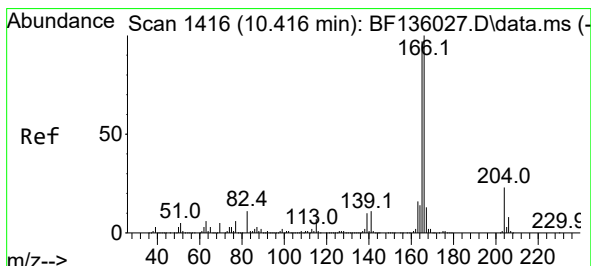
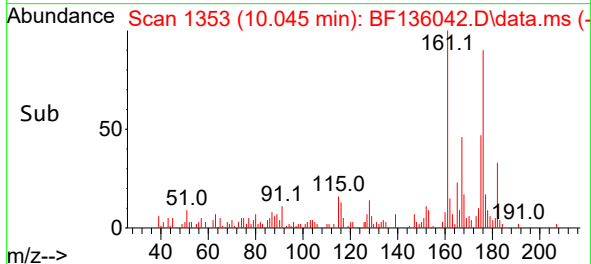
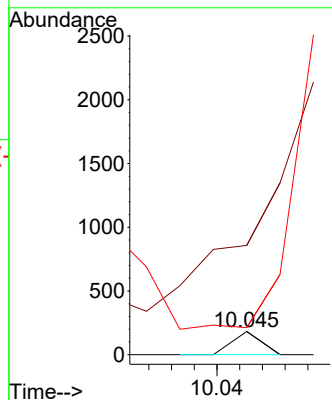
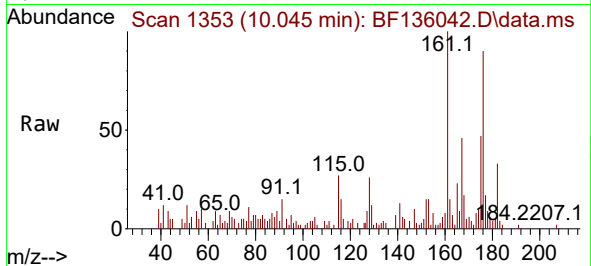




#54
2,4-Dinitrophenol
Concen: 8.004 ng
RT: 10.045 min Scan# 11
Delta R.T. 0.123 min
Lab File: BF136042.D
Acq: 30 Oct 2023 22:34

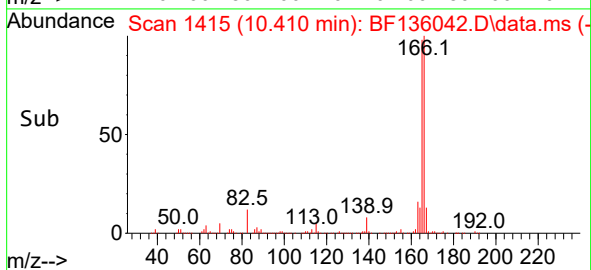
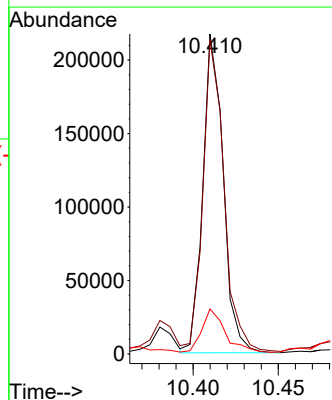
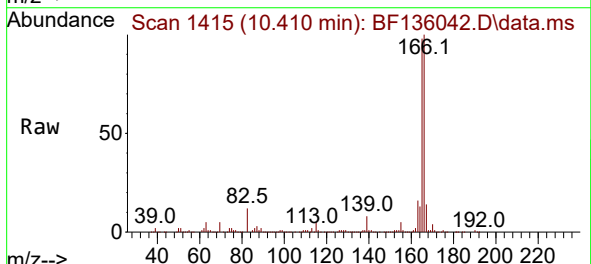
Instrument :
BNA_F
ClientSampleId :
R-3(10-15)DL

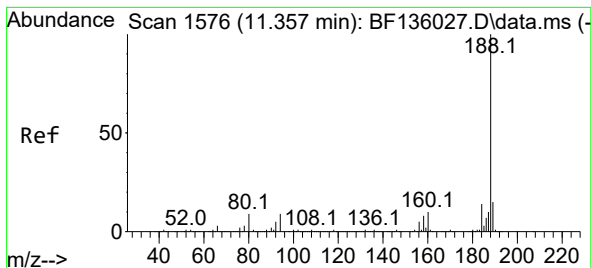
Tgt Ion:184 Resp: 65
Ion Ratio Lower Upper
184 100
63 468.9 43.7 65.5#
154 115.8 51.2 76.8#



#58
Fluorene
Concen: 10.526 ng
RT: 10.410 min Scan# 1415
Delta R.T. -0.006 min
Lab File: BF136042.D
Acq: 30 Oct 2023 22:34

Tgt Ion:166 Resp: 180642
Ion Ratio Lower Upper
166 100
165 98.3 77.7 116.5
167 14.0 10.6 16.0





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.357 min Scan# 11

Delta R.T. -0.000 min

Lab File: BF136042.D

Acq: 30 Oct 2023 22:34

Instrument :

BNA_F

ClientSampleId :

R-3(10-15)DL

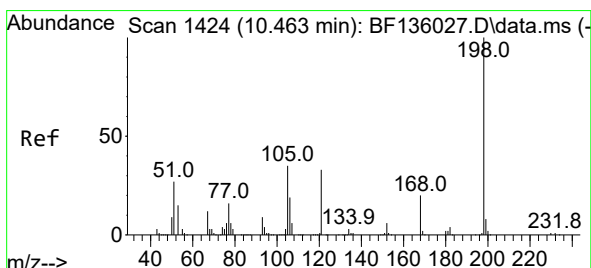
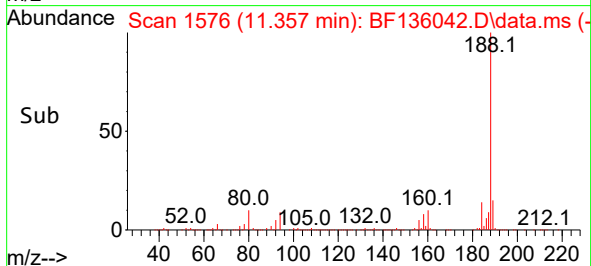
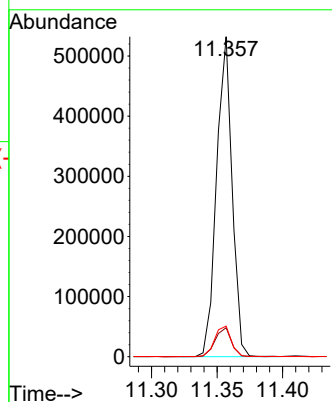
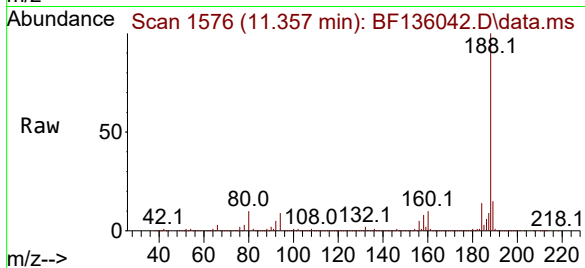
Tgt Ion:188 Resp: 437274

Ion Ratio Lower Upper

188 100

94 9.1 7.2 10.8

80 9.6 7.4 11.0



#65

4,6-Dinitro-2-methylphenol

Concen: 5.834 ng

RT: 10.486 min Scan# 1428

Delta R.T. 0.023 min

Lab File: BF136042.D

Acq: 30 Oct 2023 22:34

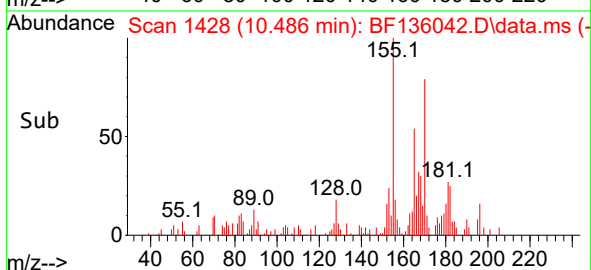
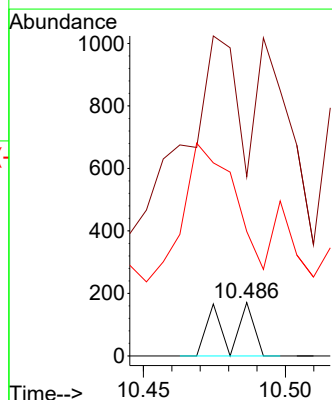
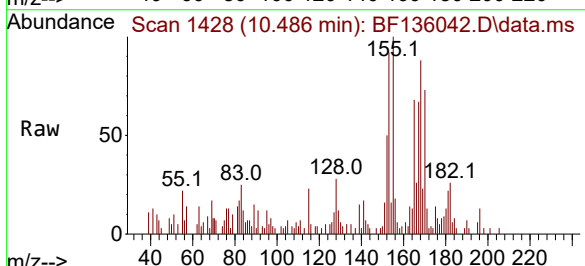
Tgt Ion:198 Resp: 119

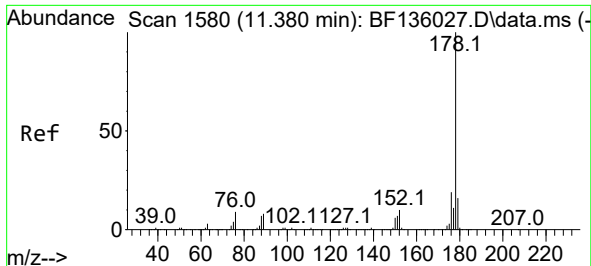
Ion Ratio Lower Upper

198 100

51 335.7 12.9 52.9#

105 232.7 16.0 56.0#

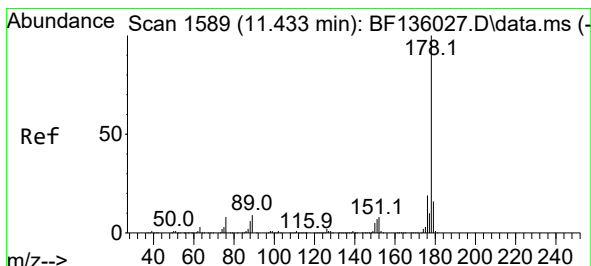
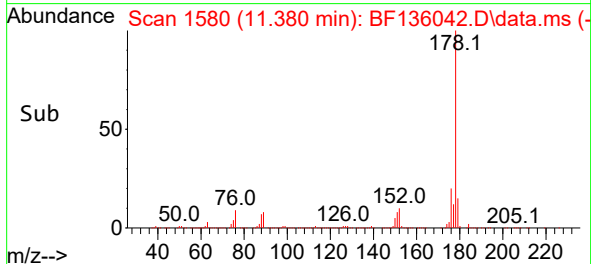
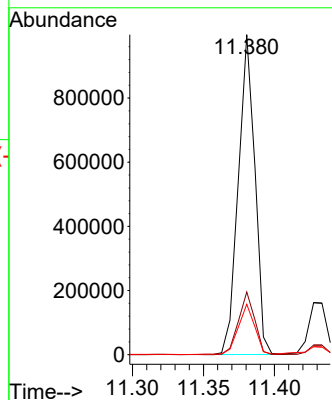
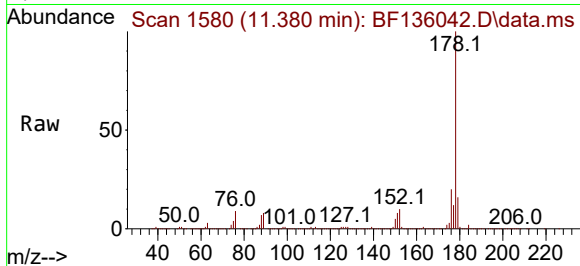




#71
Phenanthrene
Concen: 36.886 ng
RT: 11.380 min Scan# 1580
Delta R.T. 0.000 min
Lab File: BF136042.D
Acq: 30 Oct 2023 22:34

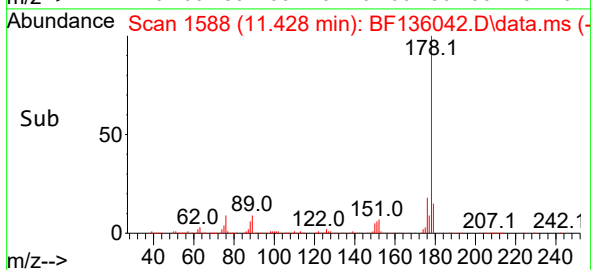
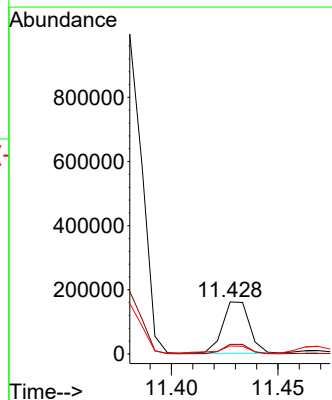
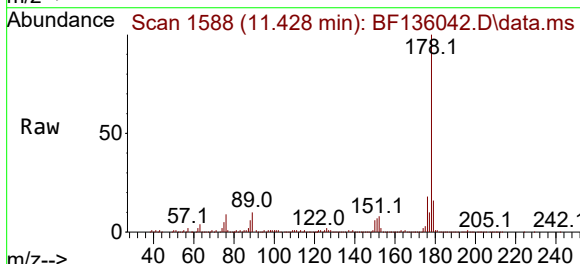
Instrument :
BNA_F
ClientSampleId :
R-3(10-15)DL

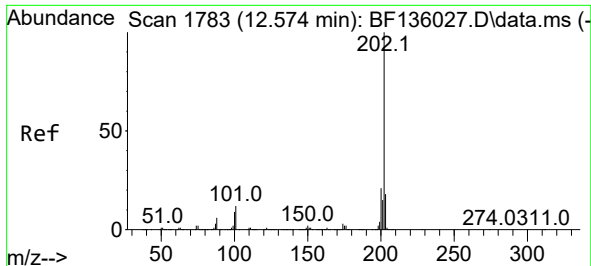
Tgt Ion:178 Resp: 812111
Ion Ratio Lower Upper
178 100
176 19.6 15.5 23.3
179 15.8 12.9 19.3



#72
Anthracene
Concen: 6.293 ng
RT: 11.428 min Scan# 1588
Delta R.T. -0.006 min
Lab File: BF136042.D
Acq: 30 Oct 2023 22:34

Tgt Ion:178 Resp: 141967
Ion Ratio Lower Upper
178 100
176 18.4 15.0 22.4
179 15.5 12.6 18.8

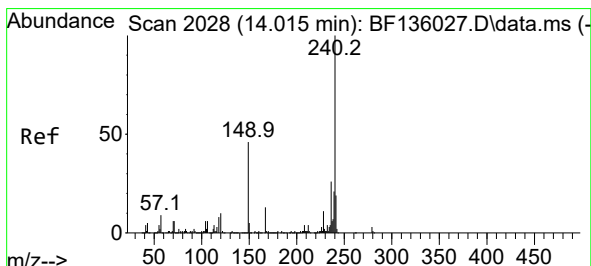
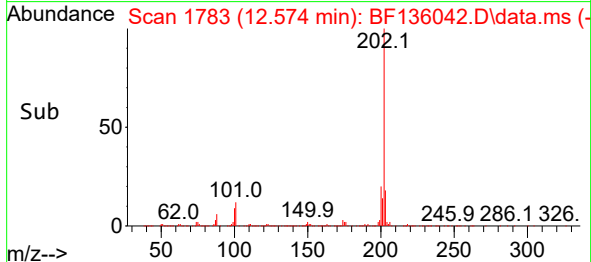
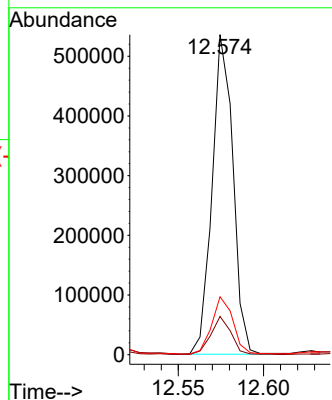
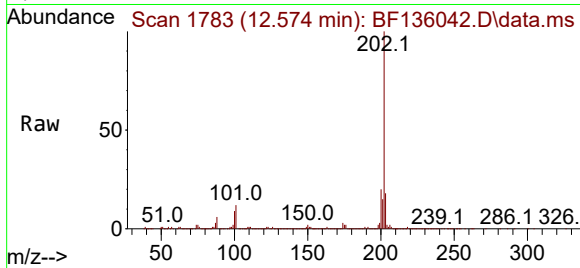




#75
Fluoranthene
Concen: 20.133 ng
RT: 12.574 min Scan# 1783
Delta R.T. 0.000 min
Lab File: BF136042.D
Acq: 30 Oct 2023 22:34

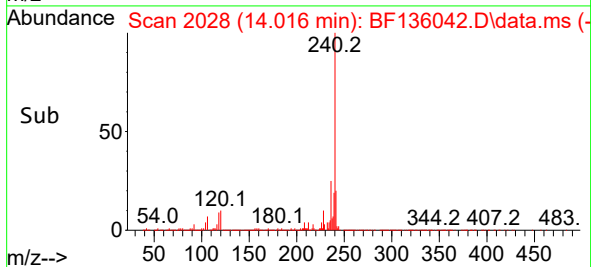
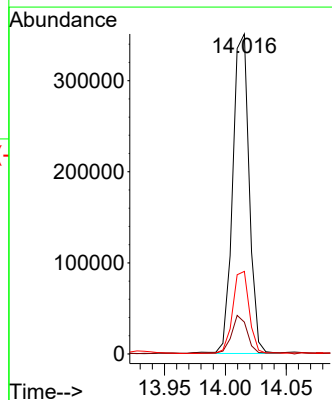
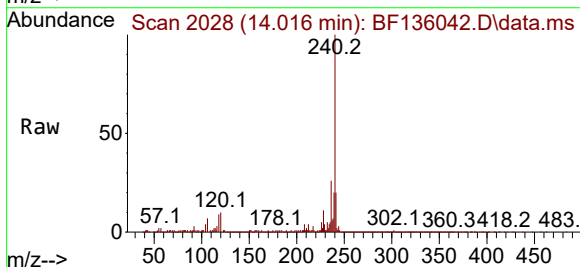
Instrument :
BNA_F
ClientSampleId :
R-3(10-15)DL

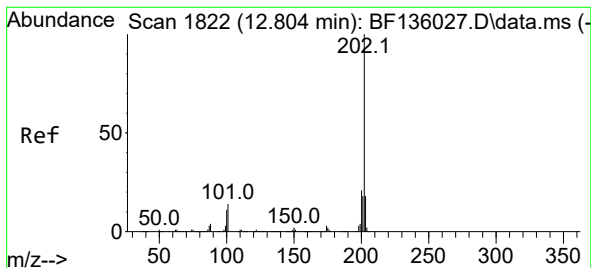
Tgt Ion:202 Resp: 455379
Ion Ratio Lower Upper
202 100
101 12.0 0.0 31.8
203 18.1 0.0 37.9



#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.016 min Scan# 2028
Delta R.T. 0.000 min
Lab File: BF136042.D
Acq: 30 Oct 2023 22:34

Tgt Ion:240 Resp: 330041
Ion Ratio Lower Upper
240 100
120 9.9 7.6 11.4
236 25.8 20.6 31.0





#78

Pyrene

Concen: 24.973 ng

RT: 12.810 min Scan# 1822

Delta R.T. 0.006 min

Lab File: BF136042.D

Acq: 30 Oct 2023 22:34

Instrument :

BNA_F

ClientSampleId :

R-3(10-15)DL

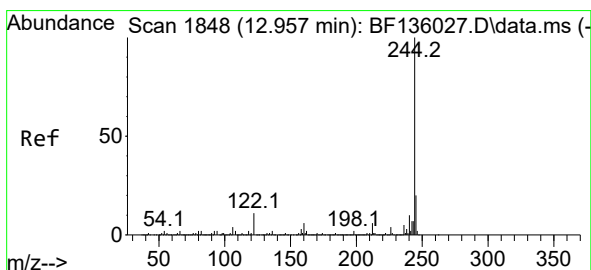
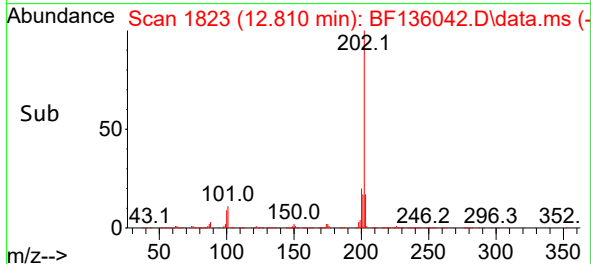
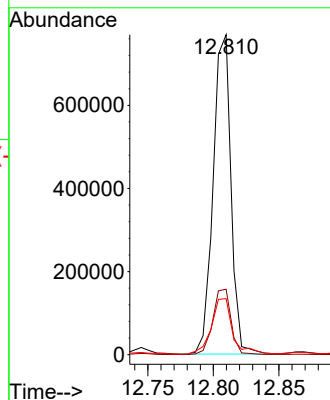
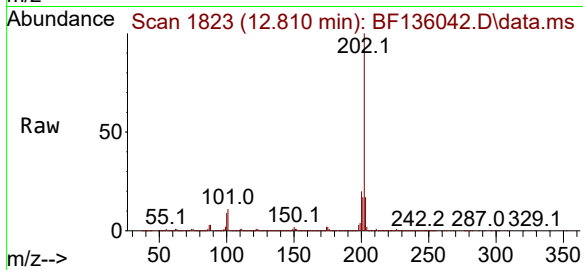
Tgt Ion:202 Resp: 726671

Ion Ratio Lower Upper

202 100

200 20.5 17.0 25.4

203 17.5 14.4 21.6



#79

Terphenyl-d14

Concen: 2.483 ng

RT: 12.951 min Scan# 1847

Delta R.T. -0.006 min

Lab File: BF136042.D

Acq: 30 Oct 2023 22:34

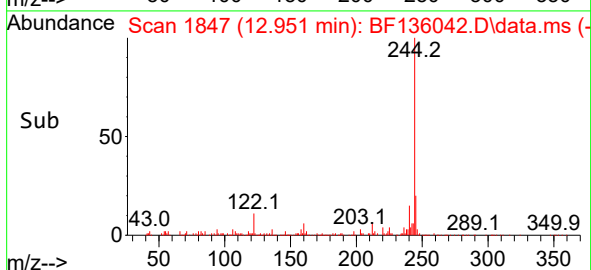
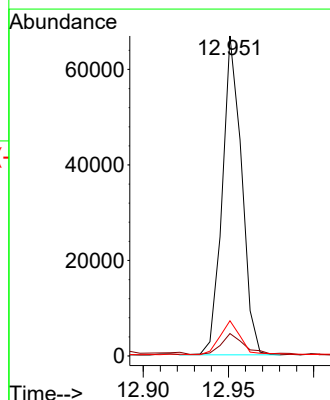
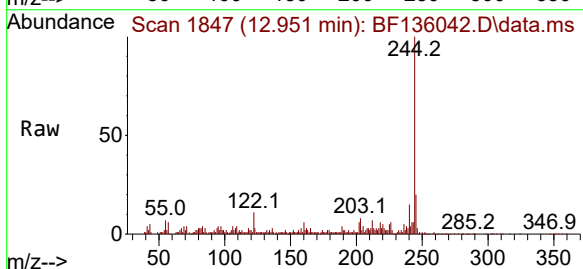
Tgt Ion:244 Resp: 52742

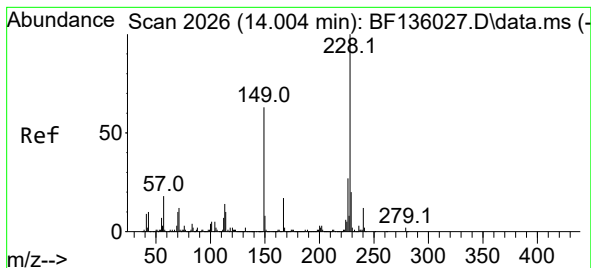
Ion Ratio Lower Upper

244 100

212 7.0 5.1 7.7

122 11.0 8.6 12.8





#81

Benzo(a)anthracene

Concen: 11.849 ng

RT: 14.039 min Scan# 20

Delta R.T. 0.035 min

Lab File: BF136042.D

Acq: 30 Oct 2023 22:34

Instrument :

BNA_F

ClientSampleId :

R-3(10-15)DL

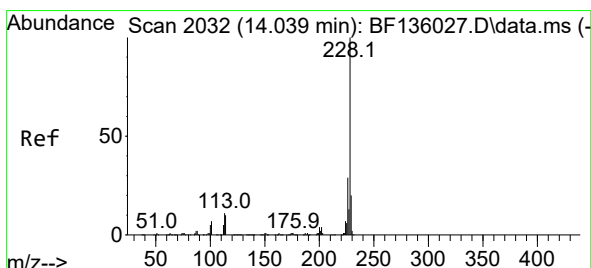
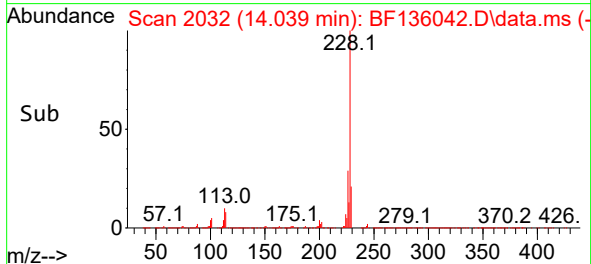
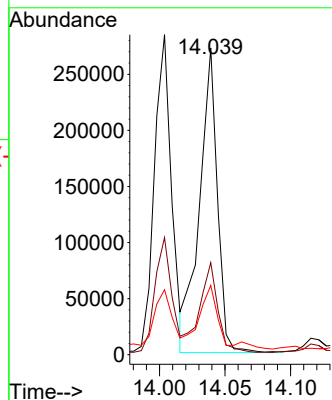
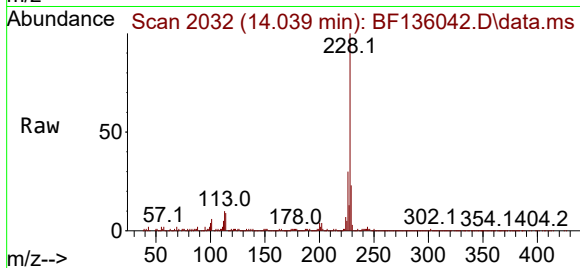
Tgt Ion:228 Resp: 258894

Ion Ratio Lower Upper

228 100

226 30.0 21.5 32.3

229 22.6 15.8 23.6



#83

Chrysene

Concen: 12.031 ng

RT: 14.039 min Scan# 2032

Delta R.T. 0.000 min

Lab File: BF136042.D

Acq: 30 Oct 2023 22:34

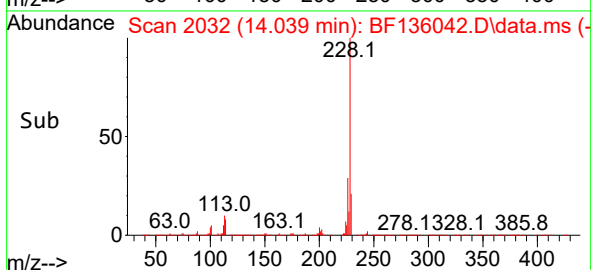
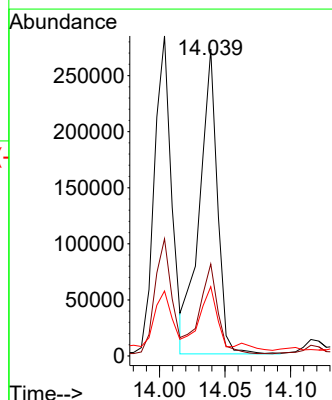
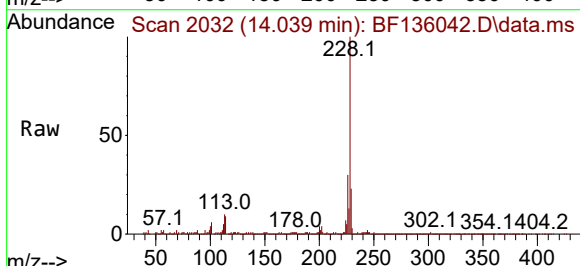
Tgt Ion:228 Resp: 258894

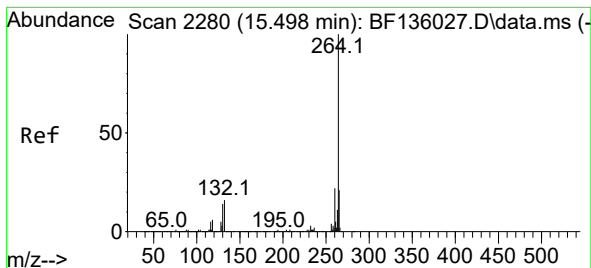
Ion Ratio Lower Upper

228 100

226 30.0 23.5 35.3

229 22.6 16.0 24.0





#86

Perylene-d12

Concen: 20.000 ng

RT: 15.504 min Scan# 21

Delta R.T. 0.006 min

Lab File: BF136042.D

Acq: 30 Oct 2023 22:34

Instrument :

BNA_F

ClientSampleId :

R-3(10-15)DL

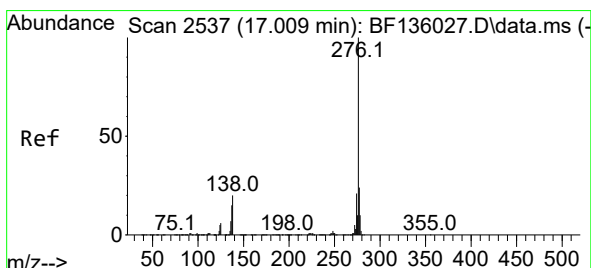
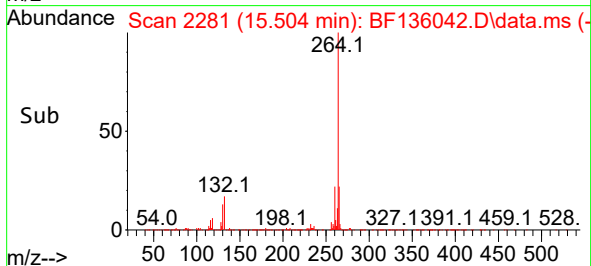
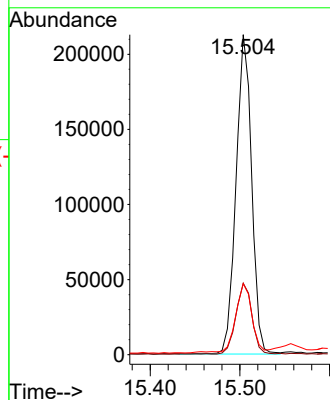
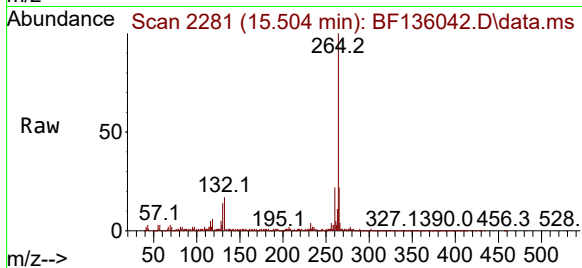
Tgt Ion:264 Resp: 256245

Ion Ratio Lower Upper

264 100

260 22.4 17.9 26.9

265 22.2 16.8 25.2



#87

Indeno(1,2,3-cd)pyrene

Concen: 4.056 ng

RT: 17.015 min Scan# 2538

Delta R.T. 0.006 min

Lab File: BF136042.D

Acq: 30 Oct 2023 22:34

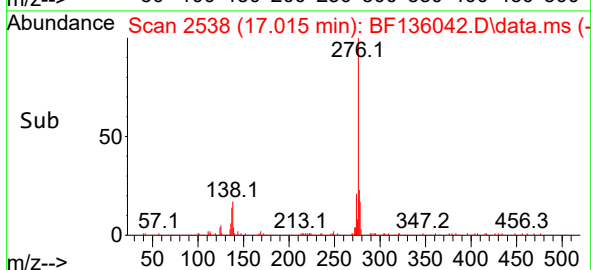
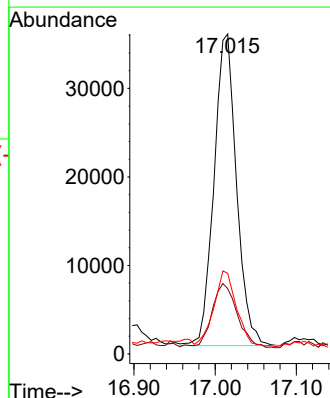
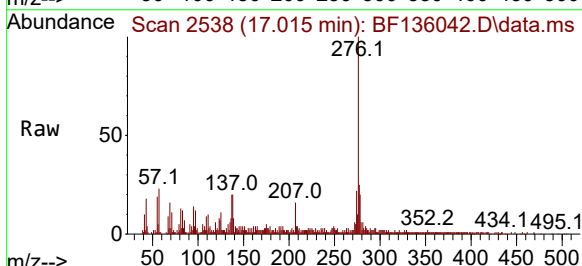
Tgt Ion:276 Resp: 67929

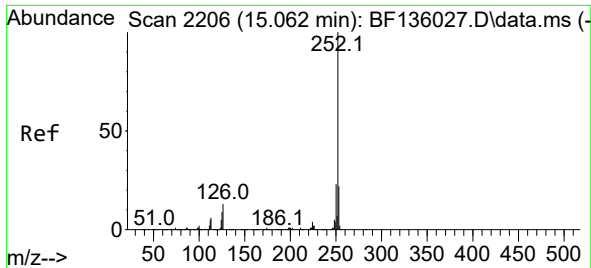
Ion Ratio Lower Upper

276 100

138 23.0 20.4 30.6

277 24.6 20.2 30.2

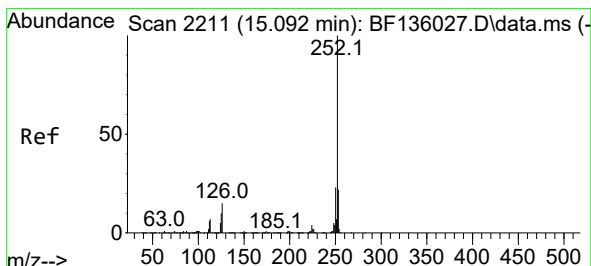
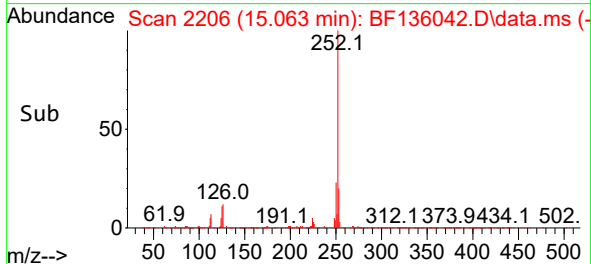
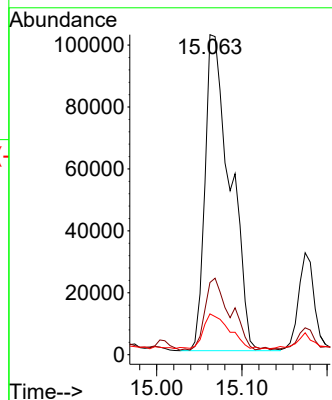
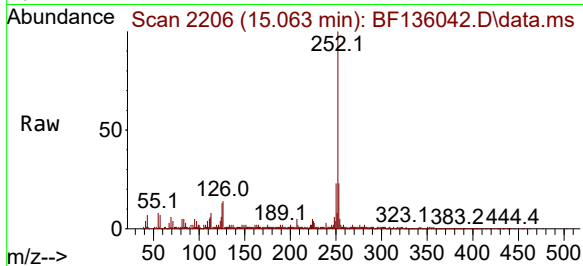




#88
Benzo(b)fluoranthene
Concen: 13.900 ng
RT: 15.063 min Scan# 21
Delta R.T. 0.000 min
Lab File: BF136042.D
Acq: 30 Oct 2023 22:34

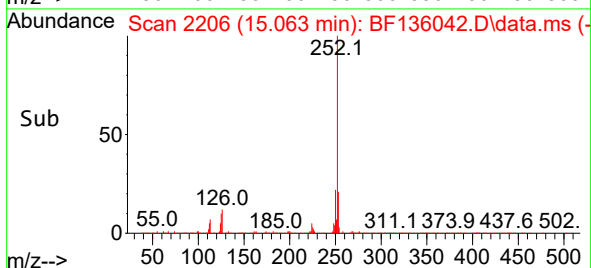
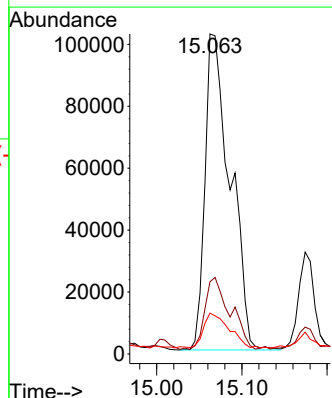
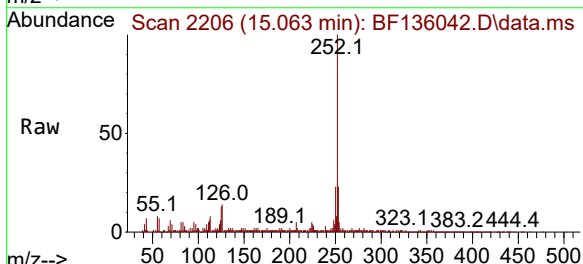
Instrument :
BNA_F
ClientSampleId :
R-3(10-15)DL

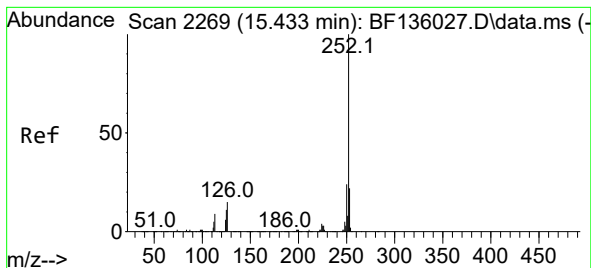
Tgt Ion:252 Resp: 210759
Ion Ratio Lower Upper
252 100
253 22.6 17.7 26.5
125 12.8 7.5 11.3#



#89
Benzo(k)fluoranthene
Concen: 14.048 ng
RT: 15.063 min Scan# 2206
Delta R.T. -0.029 min
Lab File: BF136042.D
Acq: 30 Oct 2023 22:34

Tgt Ion:252 Resp: 210759
Ion Ratio Lower Upper
252 100
253 22.6 17.4 26.0
125 12.8 8.0 12.0#





#90

Benzo(a)pyrene

Concen: 11.407 ng

RT: 15.439 min Scan# 21

Delta R.T. 0.006 min

Lab File: BF136042.D

Acq: 30 Oct 2023 22:34

Instrument :

BNA_F

ClientSampleId :

R-3(10-15)DL

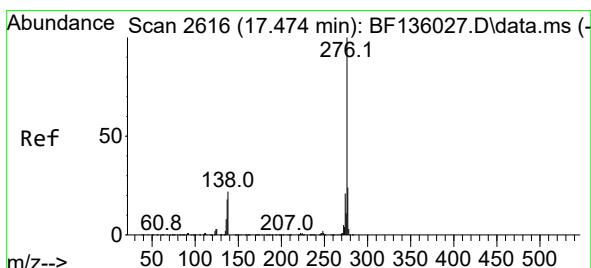
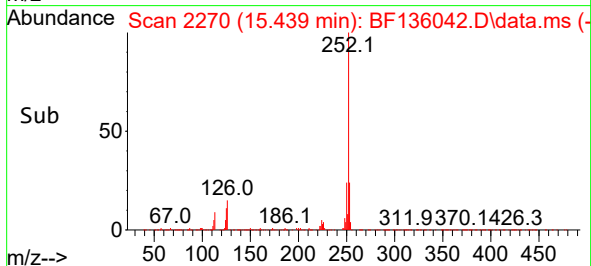
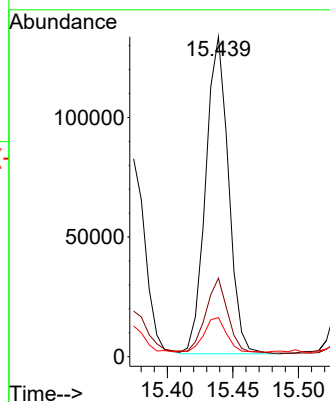
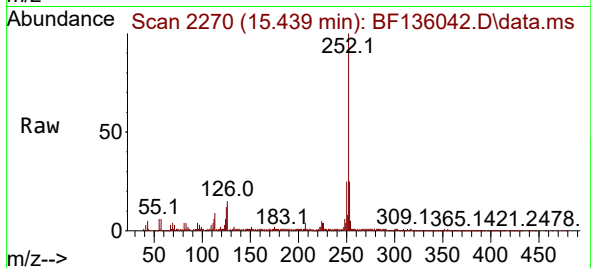
Tgt Ion:252 Resp: 160699

Ion Ratio Lower Upper

252 100

253 24.5 17.3 25.9

125 12.2 9.0 13.6



#92

Benzo(g,h,i)perylene

Concen: 7.371 ng

RT: 17.468 min Scan# 2615

Delta R.T. -0.006 min

Lab File: BF136042.D

Acq: 30 Oct 2023 22:34

Tgt Ion:276 Resp: 74402

Ion Ratio Lower Upper

276 100

277 24.5 19.0 28.4

138 24.0 17.4 26.2

