

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF103123\
 Data File : BF136066.D
 Acq On : 31 Oct 2023 22:45
 Operator : CG\JU
 Sample : 04805-01DL 25X
 Misc :
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 B-1(0-5)DL

Quant Time: Nov 01 00:38:52 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

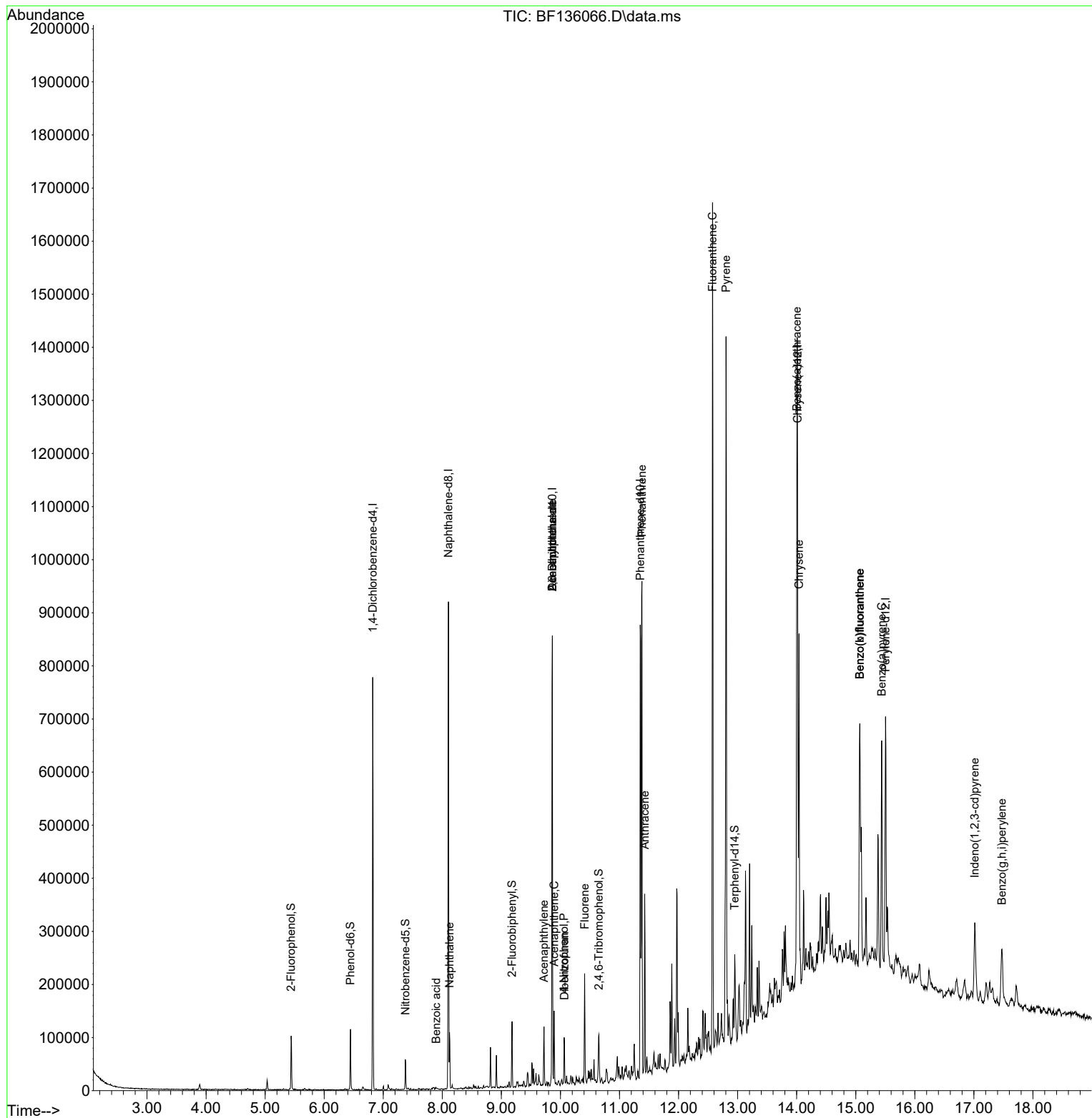
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.822	152	104495	20.000	ng	0.00
21) Naphthalene-d8	8.104	136	354868	20.000	ng	0.00
39) Acenaphthene-d10	9.863	164	165898	20.000	ng	0.00
64) Phenanthrene-d10	11.351	188	325748	20.000	ng	0.00
76) Chrysene-d12	14.015	240	289218	20.000	ng	0.00
86) Perylene-d12	15.504	264	219047	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.440	112	27728	4.170	ng	-0.01
7) Phenol-d6	6.445	99	32102	3.875	ng	-0.01
23) Nitrobenzene-d5	7.375	82	15798	2.684	ng	-0.02
42) 2,4,6-Tribromophenol	10.651	330	6249	3.529	ng	0.00
45) 2-Fluorobiphenyl	9.180	172	34298	3.296	ng	0.00
79) Terphenyl-d14	12.951	244	45442	2.442	ng	0.00
Target Compounds						
						Qvalue
31) Naphthalene	8.122	128	41675	2.435	ng	98
32) Benzoic acid	7.898	122	110	5.138	ng	# 1
49) Acenaphthylene	9.722	152	38110	2.620	ng	98
50) Dimethylphthalate	9.863	163	34423	3.146	ng	# 1
51) 2,6-Dinitrotoluene	9.863	165	21913	9.363	ng	# 29
52) Acenaphthene	9.892	154	26485	2.865	ng	99
55) Dibenzofuran	10.069	168	27071	2.008	ng	# 97
56) 4-Nitrophenol	10.063	139	10272	5.029	ng	# 17
58) Fluorene	10.410	166	49199	4.874	ng	94
71) Phenanthrene	11.380	178	356235	21.720	ng	99
72) Anthracene	11.427	178	120875	7.192	ng	99
75) Fluoranthene	12.574	202	610662	36.242	ng	100
78) Pyrene	12.804	202	552348	21.662	ng	99
81) Benzo(a)anthracene	14.004	228	277369	14.486	ng	96
83) Chrysene	14.039	228	230780	12.239	ng	97
87) Indeno(1,2,3-cd)pyrene	17.015	276	104133	7.274	ng	96
88) Benzo(b)fluoranthene	15.068	252	374961	28.929	ng	98
89) Benzo(k)fluoranthene	15.068	252	374961	29.238	ng	98
90) Benzo(a)pyrene	15.439	252	200970	16.688	ng	98
92) Benzo(g,h,i)perylene	17.474	276	95506	9.617	ng	99

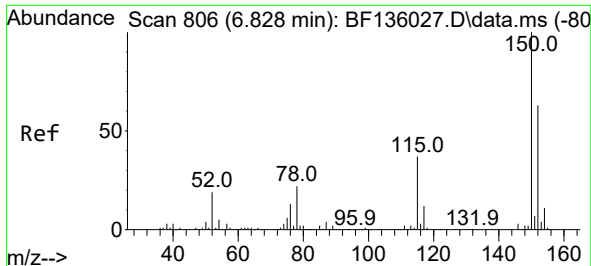
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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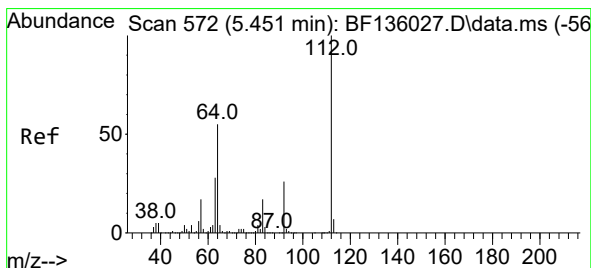
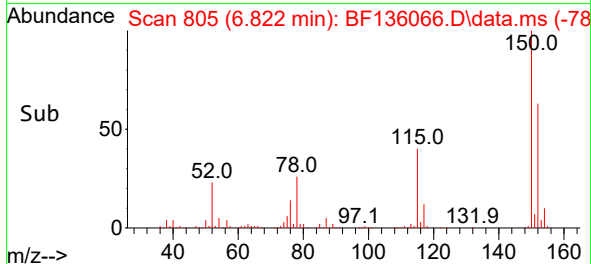
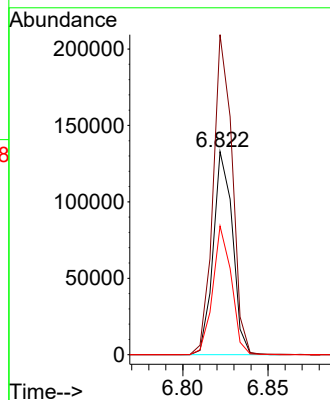
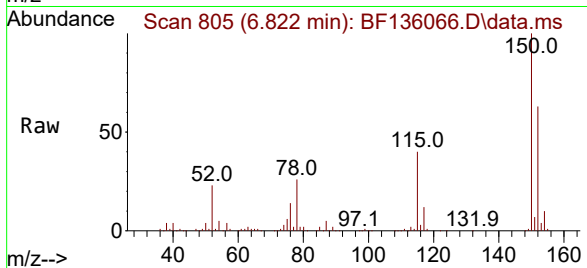




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.822 min Scan# 806
Delta R.T. -0.006 min
Lab File: BF136066.D
Acq: 31 Oct 2023 22:45

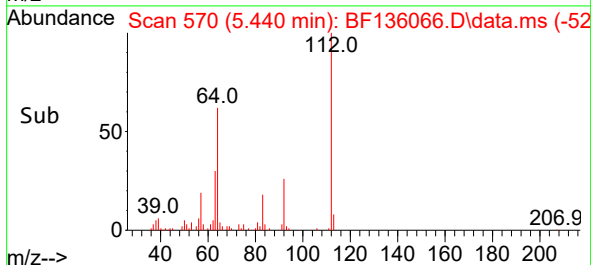
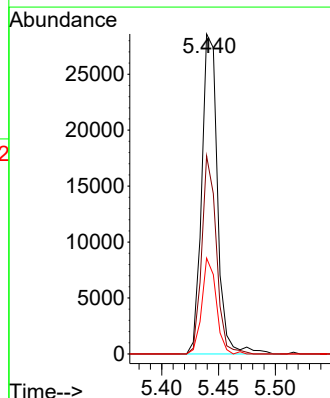
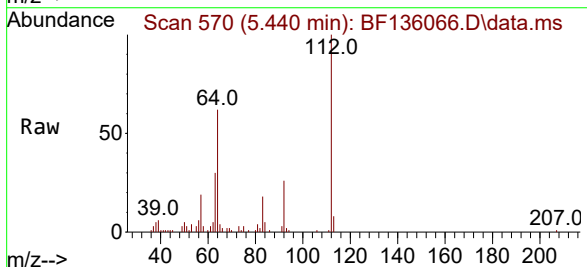
Instrument :
BNA_F
ClientSampleId :
B-1(0-5)DL

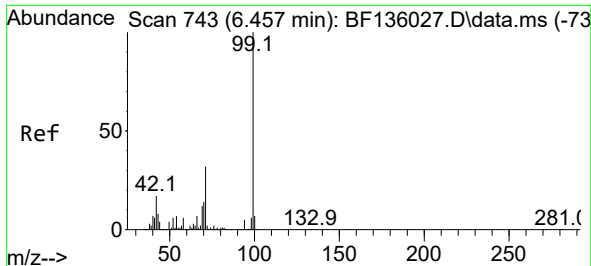
Tgt Ion:152 Resp: 104495
Ion Ratio Lower Upper
152 100
150 157.6 126.4 189.6
115 63.3 47.0 70.4



#5
2-Fluorophenol
Concen: 4.170 ng
RT: 5.440 min Scan# 570
Delta R.T. -0.012 min
Lab File: BF136066.D
Acq: 31 Oct 2023 22:45

Tgt Ion:112 Resp: 27728
Ion Ratio Lower Upper
112 100
64 61.9 43.9 65.9
63 30.0 22.4 33.6

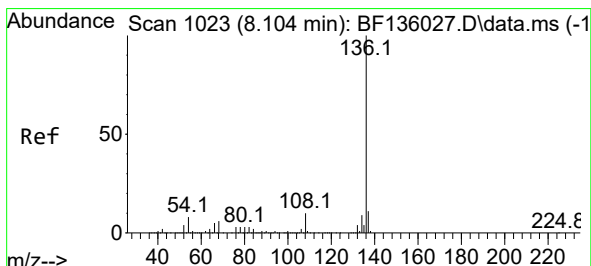
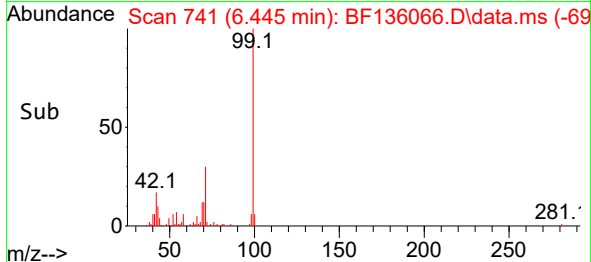
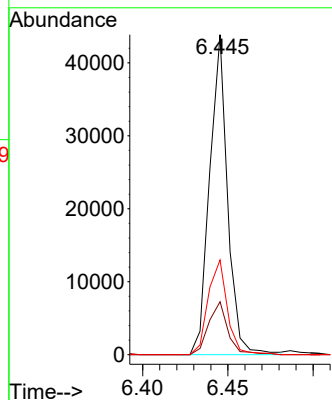
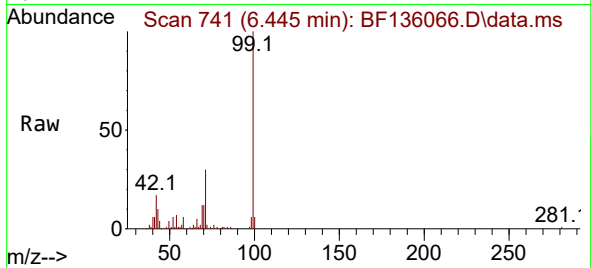




#7
Phenol-d6
Concen: 3.875 ng
RT: 6.445 min Scan# 741
Delta R.T. -0.012 min
Lab File: BF136066.D
Acq: 31 Oct 2023 22:45

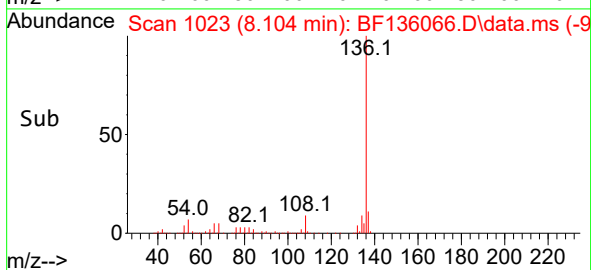
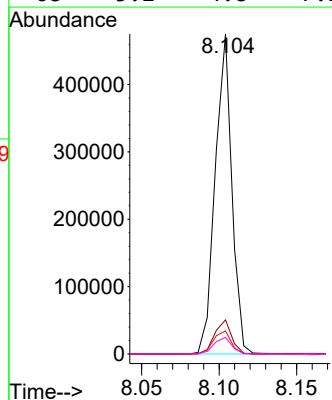
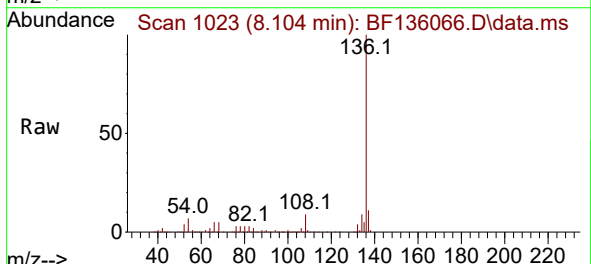
Instrument :
BNA_F
ClientSampleId :
B-1(0-5)DL

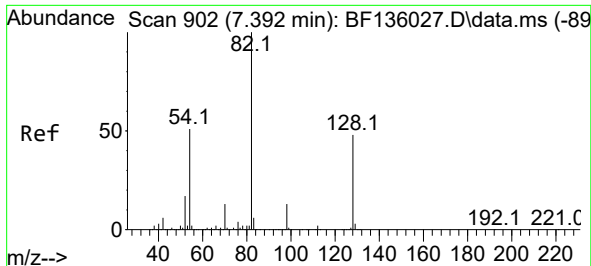
Tgt Ion: 99 Resp: 32102
Ion Ratio Lower Upper
99 100
42 16.6 13.7 20.5
71 29.6 25.9 38.9



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.104 min Scan# 1023
Delta R.T. 0.000 min
Lab File: BF136066.D
Acq: 31 Oct 2023 22:45

Tgt Ion: 136 Resp: 354868
Ion Ratio Lower Upper
136 100
137 10.6 8.6 13.0
54 7.2 6.6 9.8
68 5.2 4.8 7.2





#23

Nitrobenzene-d5

Concen: 2.684 ng

RT: 7.375 min Scan# 899

Delta R.T. -0.018 min

Lab File: BF136066.D

Acq: 31 Oct 2023 22:45

Instrument :

BNA_F

ClientSampleId :

B-1(0-5)DL

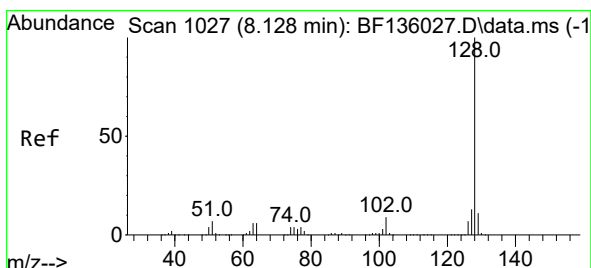
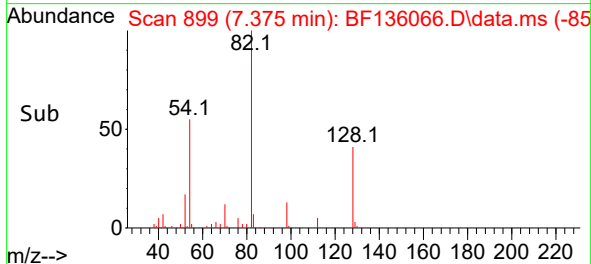
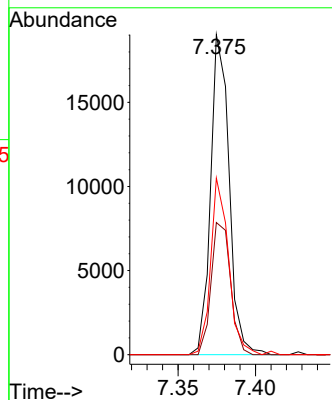
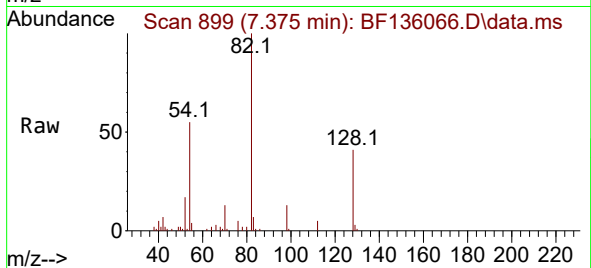
Tgt Ion: 82 Resp: 15798

Ion Ratio Lower Upper

82 100

128 41.3 38.6 57.8

54 55.2 40.8 61.2



#31

Naphthalene

Concen: 2.435 ng

RT: 8.122 min Scan# 1026

Delta R.T. -0.006 min

Lab File: BF136066.D

Acq: 31 Oct 2023 22:45

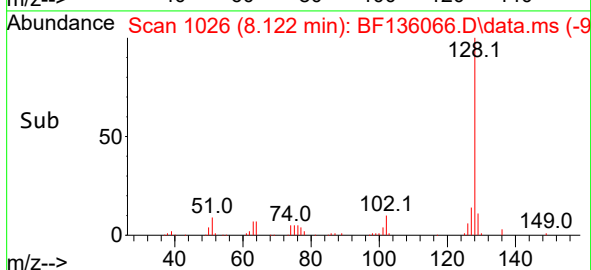
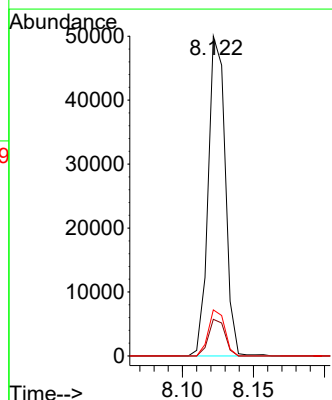
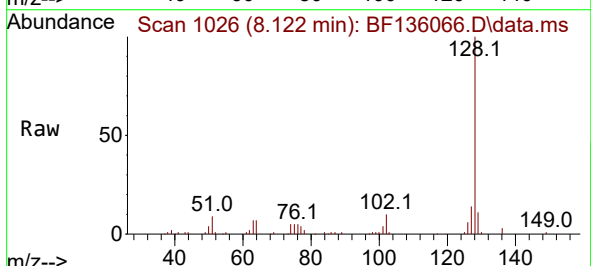
Tgt Ion: 128 Resp: 41675

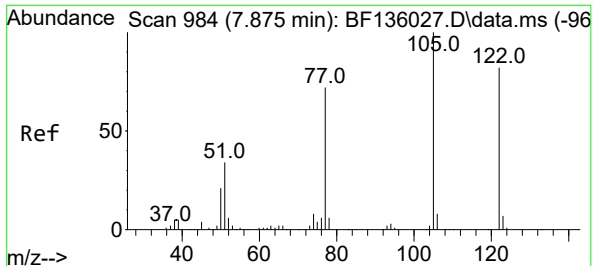
Ion Ratio Lower Upper

128 100

129 11.4 8.9 13.3

127 14.4 10.5 15.7

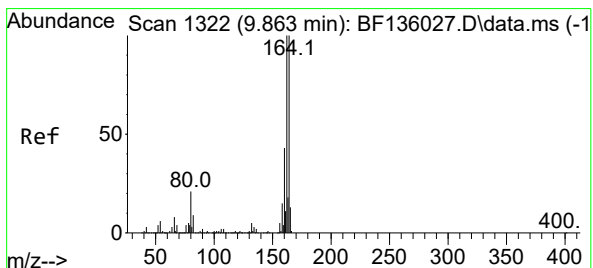
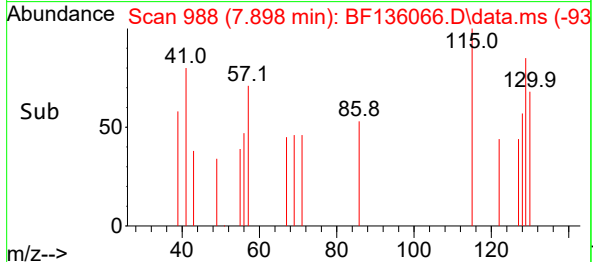
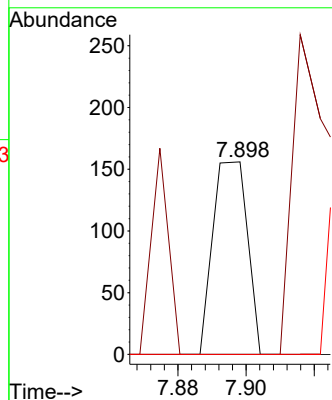
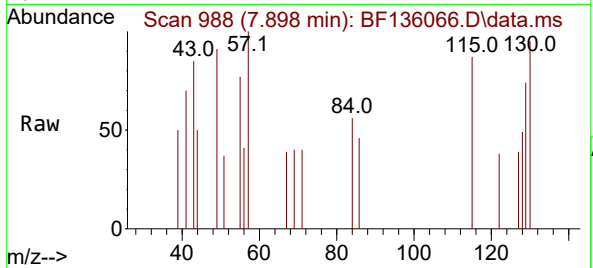




#32
Benzoic acid
Concen: 5.138 ng
RT: 7.898 min Scan# 911
Delta R.T. 0.023 min
Lab File: BF136066.D
Acq: 31 Oct 2023 22:45

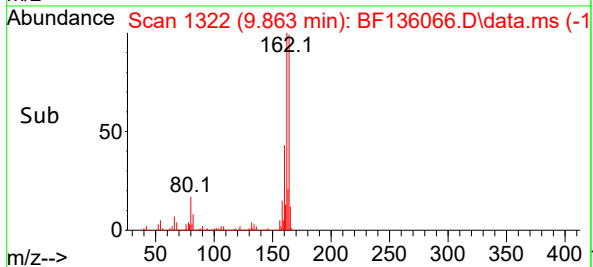
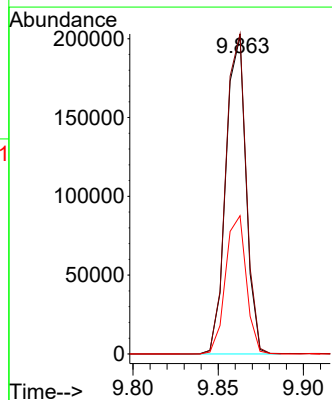
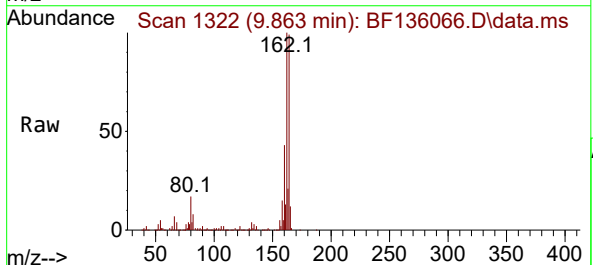
Instrument :
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ClientSampleId :
B-1(0-5)DL

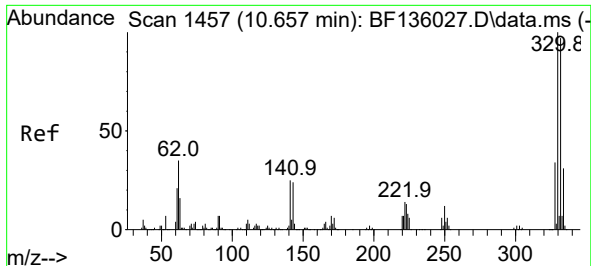
Tgt Ion:122 Resp: 110
Ion Ratio Lower Upper
122 100
105 0.0 99.5 139.5#
77 0.0 66.8 106.8#



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.863 min Scan# 1322
Delta R.T. -0.000 min
Lab File: BF136066.D
Acq: 31 Oct 2023 22:45

Tgt Ion:164 Resp: 165898
Ion Ratio Lower Upper
164 100
162 100.7 80.1 120.1
160 43.5 34.8 52.2





#42

2,4,6-Tribromophenol

Concen: 3.529 ng

RT: 10.651 min Scan# 1457

Delta R.T. -0.006 min

Lab File: BF136066.D

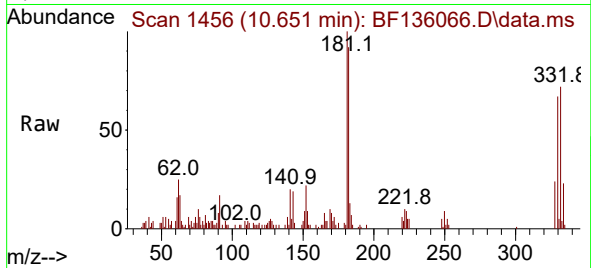
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Instrument :

BNA_F

ClientSampleId :

B-1(0-5)DL



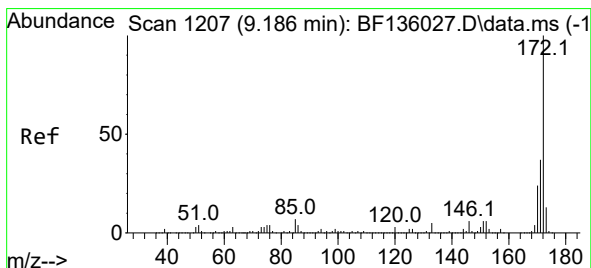
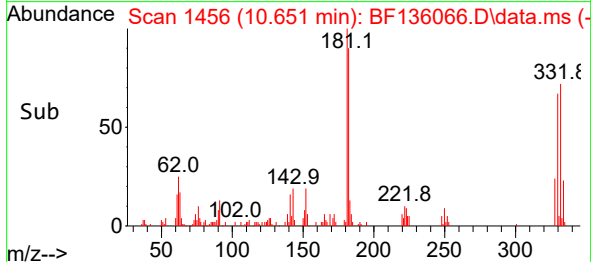
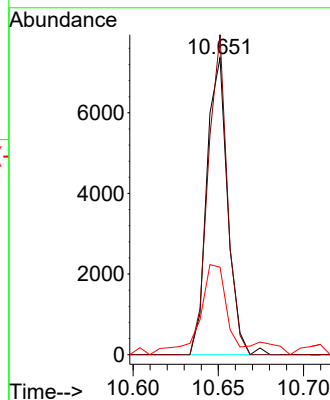
Tgt Ion:330 Resp: 6249

Ion Ratio Lower Upper

330 100

332 99.7 76.9 115.3

141 41.1 23.2 34.8#



#45

2-Fluorobiphenyl

Concen: 3.296 ng

RT: 9.180 min Scan# 1206

Delta R.T. -0.006 min

Lab File: BF136066.D

Acq: 31 Oct 2023 22:45

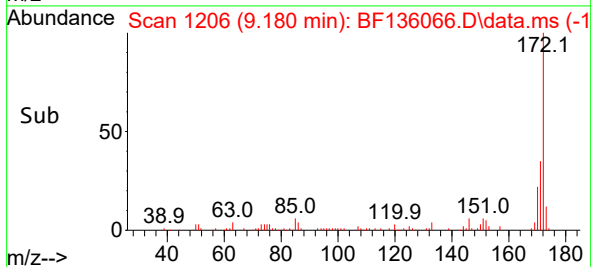
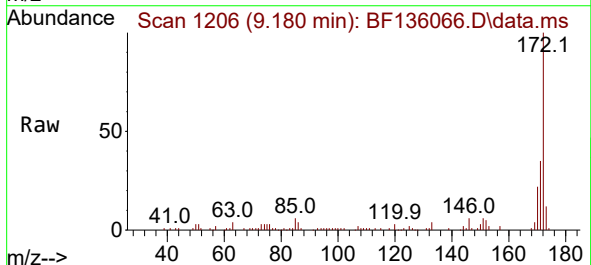
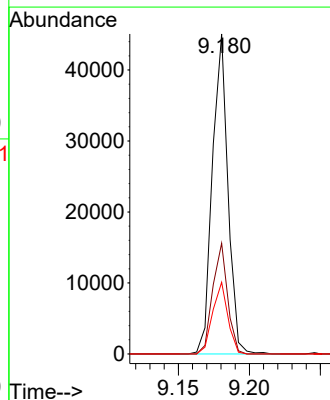
Tgt Ion:172 Resp: 34298

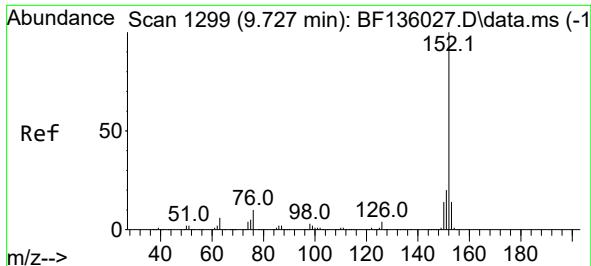
Ion Ratio Lower Upper

172 100

171 34.6 29.4 44.0

170 22.4 19.3 28.9





#49

Acenaphthylene

Concen: 2.620 ng

RT: 9.722 min Scan# 11

Delta R.T. -0.006 min

Lab File: BF136066.D

Acq: 31 Oct 2023 22:45

Instrument :

BNA_F

ClientSampleId :

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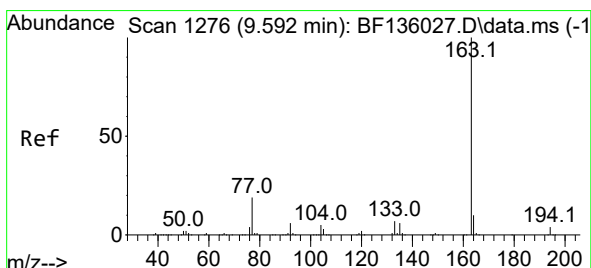
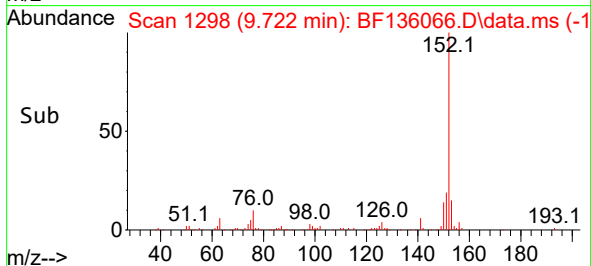
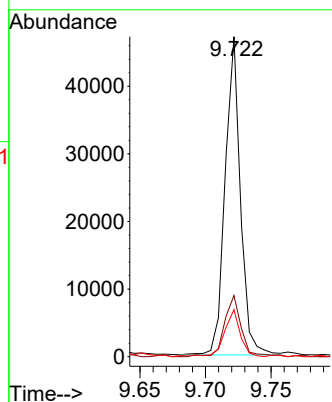
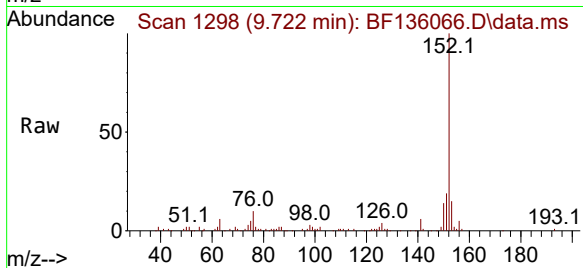
Tgt Ion:152 Resp: 38110

Ion Ratio Lower Upper

152 100

151 19.1 16.1 24.1

153 14.7 11.4 17.2



#50

Dimethylphthalate

Concen: 3.146 ng

RT: 9.863 min Scan# 1322

Delta R.T. 0.271 min

Lab File: BF136066.D

Acq: 31 Oct 2023 22:45

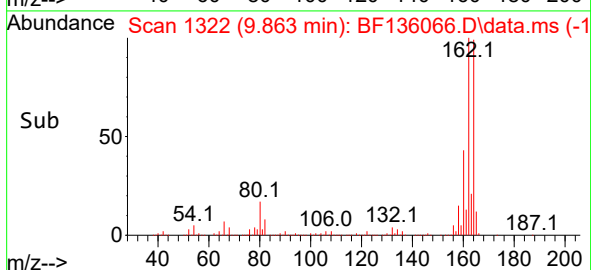
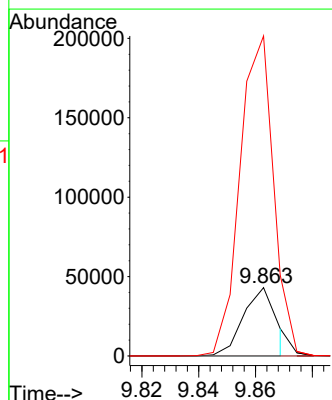
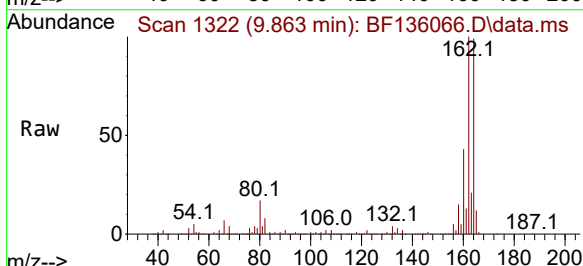
Tgt Ion:163 Resp: 34423

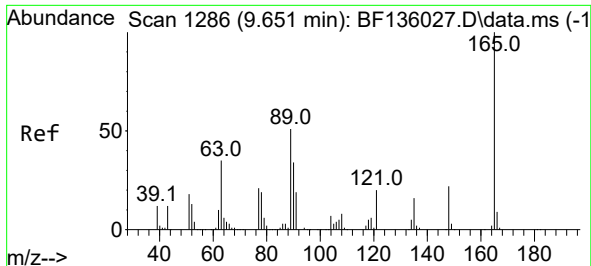
Ion Ratio Lower Upper

163 100

194 0.0 3.2 4.8#

164 468.1 8.1 12.1#

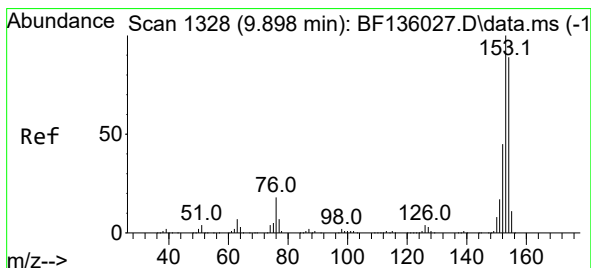
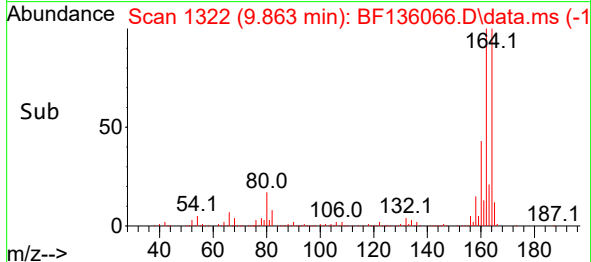
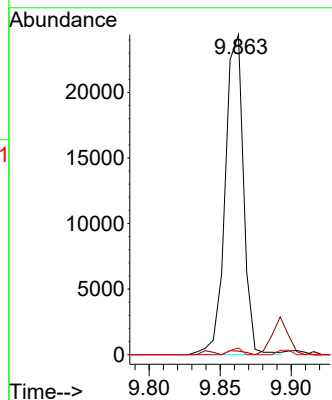
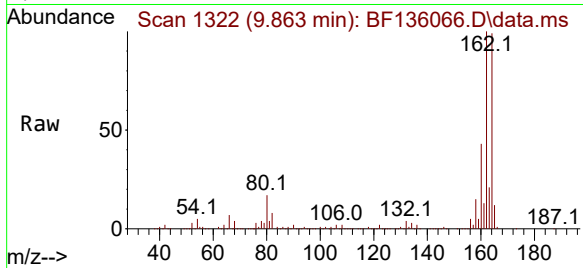




#51
2,6-Dinitrotoluene
Concen: 9.363 ng
RT: 9.863 min Scan# 11
Delta R.T. 0.212 min
Lab File: BF136066.D
Acq: 31 Oct 2023 22:45

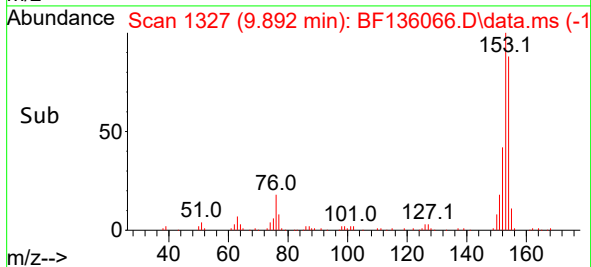
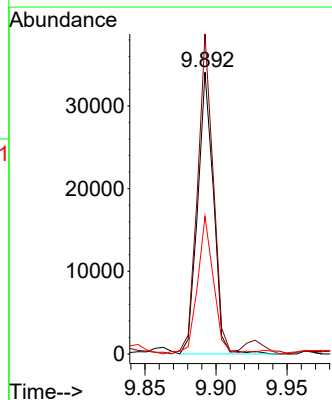
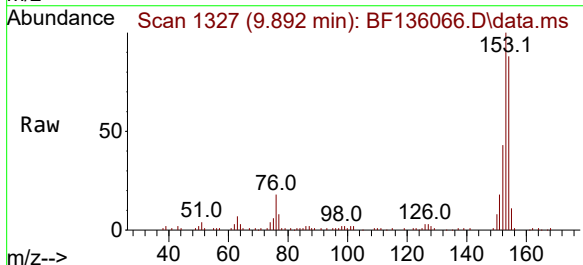
Instrument :
BNA_F
ClientSampleId :
B-1(0-5)DL

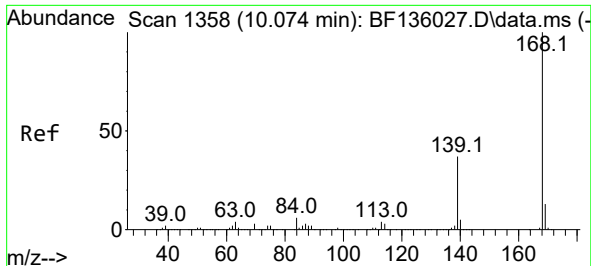
Tgt Ion:165 Resp: 21913
Ion Ratio Lower Upper
165 100
63 1.1 40.8 61.2#
89 2.1 41.1 61.7#



#52
Acenaphthene
Concen: 2.865 ng
RT: 9.892 min Scan# 1327
Delta R.T. -0.006 min
Lab File: BF136066.D
Acq: 31 Oct 2023 22:45

Tgt Ion:154 Resp: 26485
Ion Ratio Lower Upper
154 100
153 113.6 89.9 134.9
152 48.9 40.2 60.2

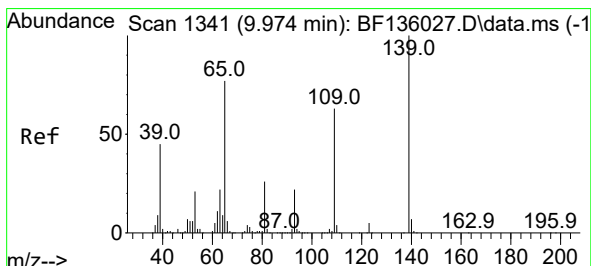
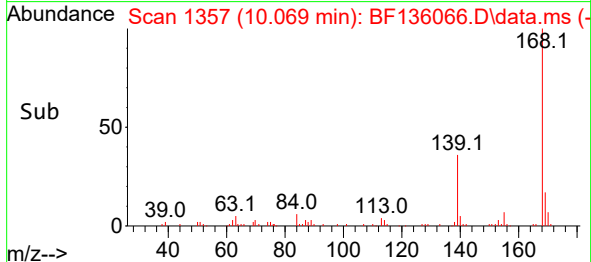
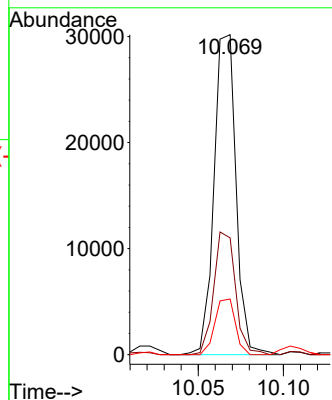
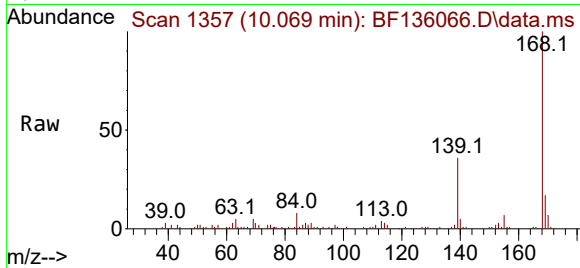




#55
Dibenzofuran
Concen: 2.008 ng
RT: 10.069 min Scan# 1357
Delta R.T. -0.006 min
Lab File: BF136066.D
Acq: 31 Oct 2023 22:45

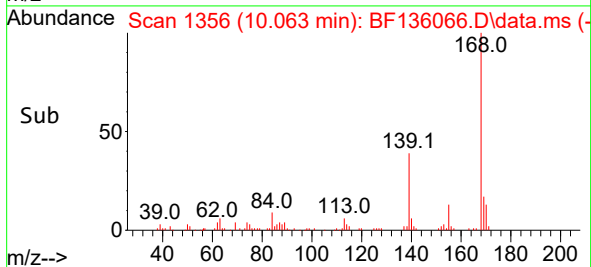
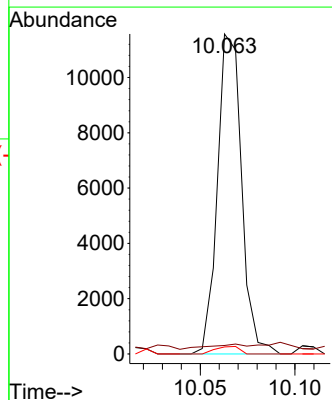
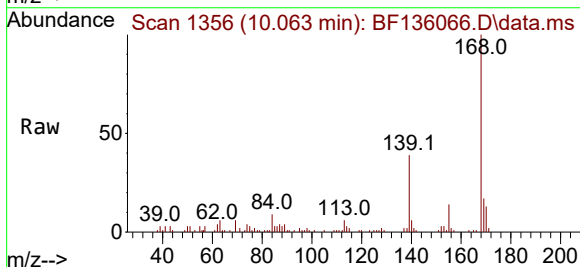
Instrument :
BNA_F
ClientSampleId :
B-1(0-5)DL

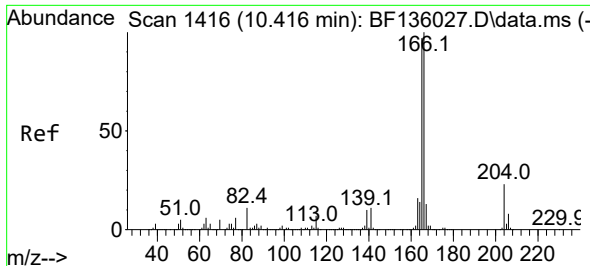
Tgt Ion:168 Resp: 27071
Ion Ratio Lower Upper
168 100
139 36.5 29.4 44.0
169 17.4 10.5 15.7#



#56
4-Nitrophenol
Concen: 5.029 ng
RT: 10.063 min Scan# 1356
Delta R.T. 0.088 min
Lab File: BF136066.D
Acq: 31 Oct 2023 22:45

Tgt Ion:139 Resp: 10272
Ion Ratio Lower Upper
139 100
109 2.6 43.2 83.2#
65 2.2 57.6 97.6#

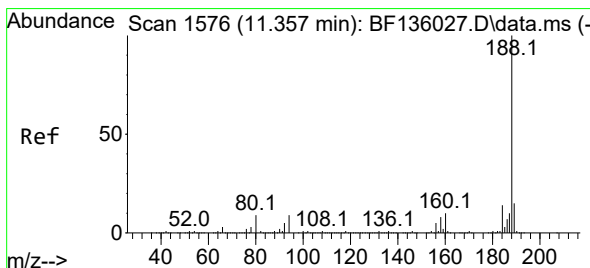
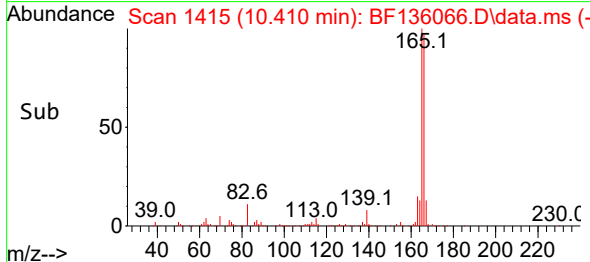
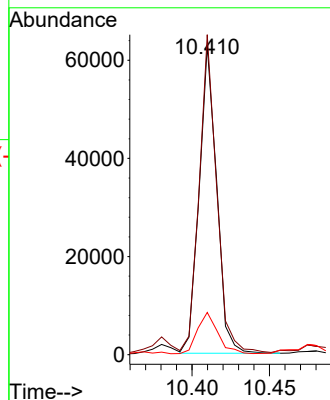
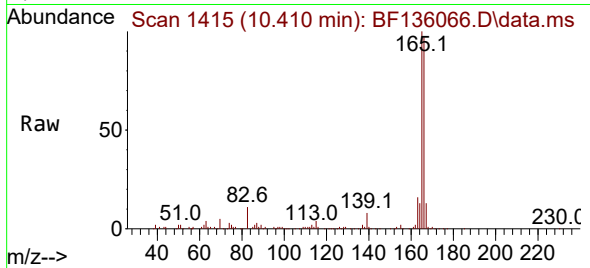




#58
Fluorene
Concen: 4.874 ng
RT: 10.410 min Scan# 1416
Delta R.T. -0.006 min
Lab File: BF136066.D
Acq: 31 Oct 2023 22:45

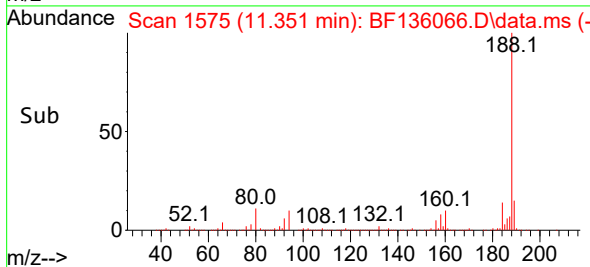
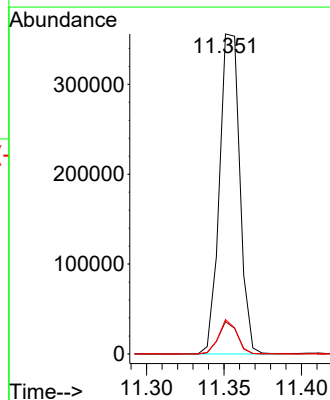
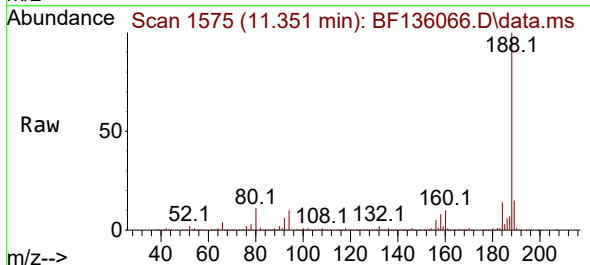
Instrument :
BNA_F
ClientSampleId :
B-1(0-5)DL

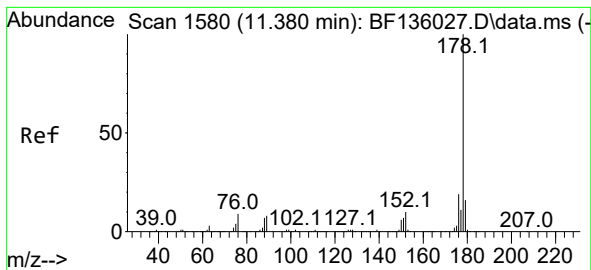
Tgt Ion:166 Resp: 49199
Ion Ratio Lower Upper
166 100
165 103.5 77.7 116.5
167 13.7 10.6 16.0



#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.351 min Scan# 1575
Delta R.T. -0.006 min
Lab File: BF136066.D
Acq: 31 Oct 2023 22:45

Tgt Ion:188 Resp: 325748
Ion Ratio Lower Upper
188 100
94 10.1 7.2 10.8
80 10.8 7.4 11.0





#71

Phenanthrene

Concen: 21.720 ng

RT: 11.380 min Scan# 1580

Delta R.T. 0.000 min

Lab File: BF136066.D

Acq: 31 Oct 2023 22:45

Instrument :

BNA_F

ClientSampleId :

B-1(0-5)DL

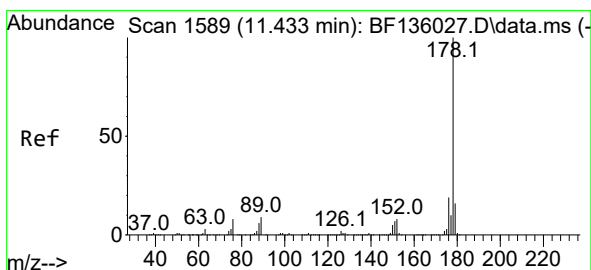
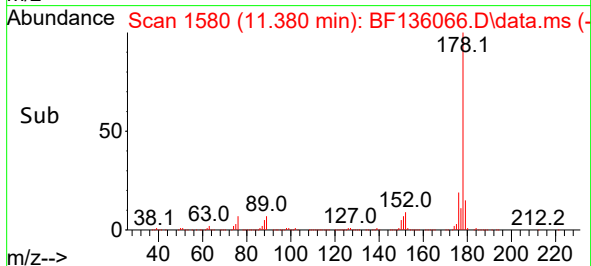
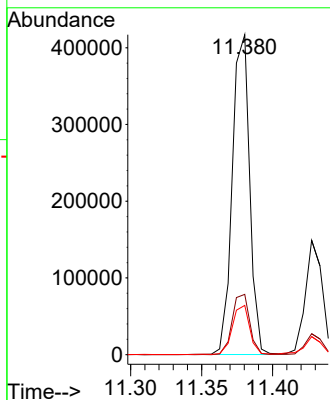
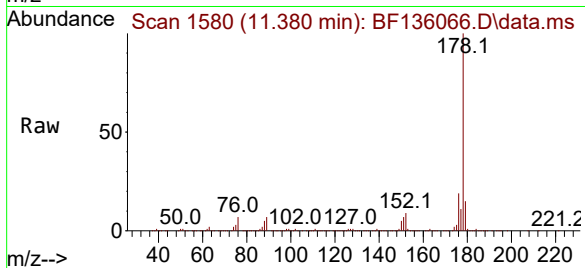
Tgt Ion:178 Resp: 356235

Ion Ratio Lower Upper

178 100

176 18.8 15.5 23.3

179 15.4 12.9 19.3



#72

Anthracene

Concen: 7.192 ng

RT: 11.427 min Scan# 1588

Delta R.T. -0.006 min

Lab File: BF136066.D

Acq: 31 Oct 2023 22:45

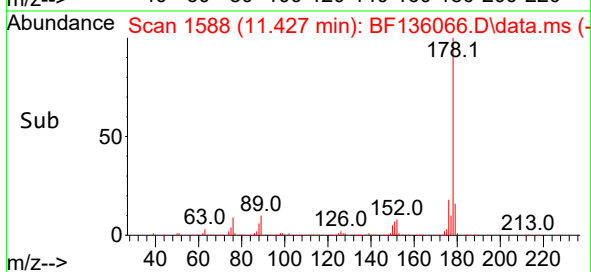
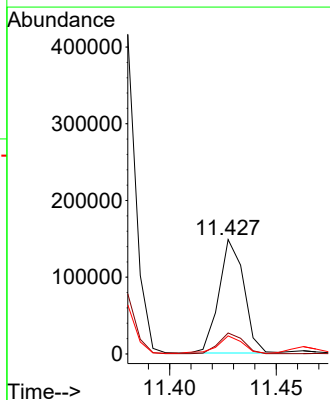
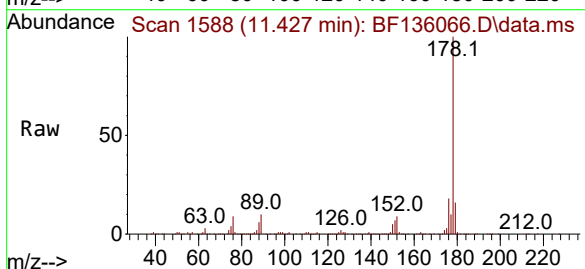
Tgt Ion:178 Resp: 120875

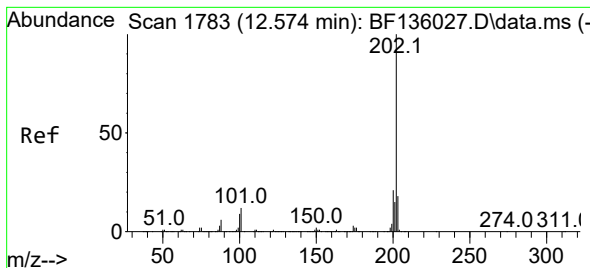
Ion Ratio Lower Upper

178 100

176 18.3 15.0 22.4

179 15.9 12.6 18.8





#75

Fluoranthene

Concen: 36.242 ng

RT: 12.574 min Scan# 1

Delta R.T. 0.000 min

Lab File: BF136066.D

Acq: 31 Oct 2023 22:45

Instrument :

BNA_F

ClientSampleId :

B-1(0-5)DL

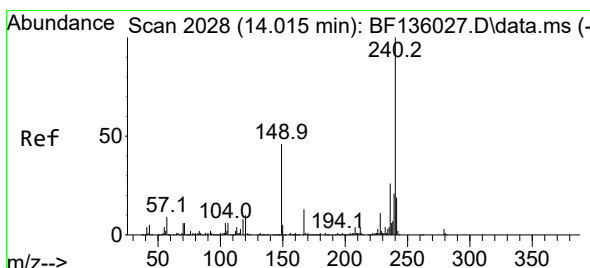
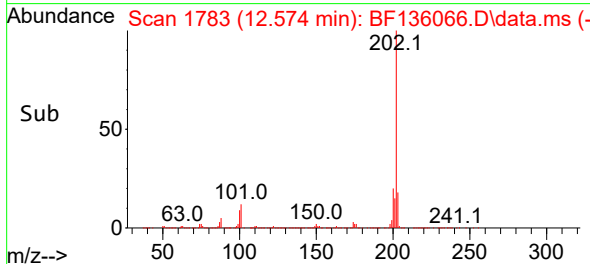
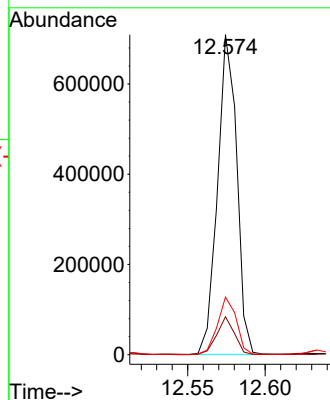
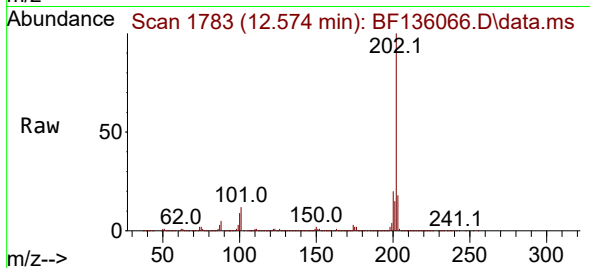
Tgt Ion:202 Resp: 610662

Ion Ratio Lower Upper

202 100

101 11.9 0.0 31.8

203 18.0 0.0 37.9



#76

Chrysene-d12

Concen: 20.000 ng

RT: 14.015 min Scan# 2028

Delta R.T. 0.000 min

Lab File: BF136066.D

Acq: 31 Oct 2023 22:45

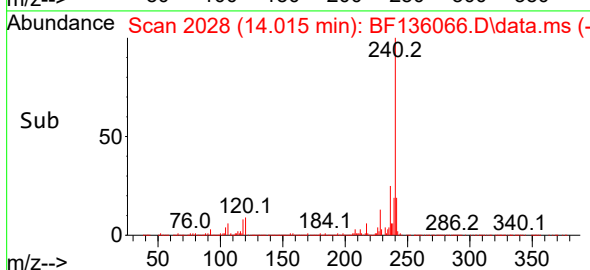
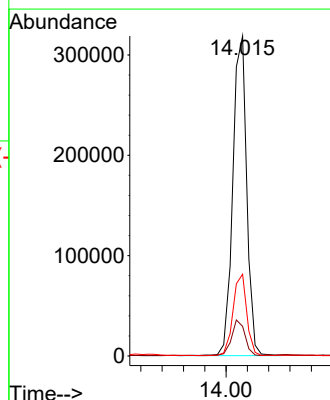
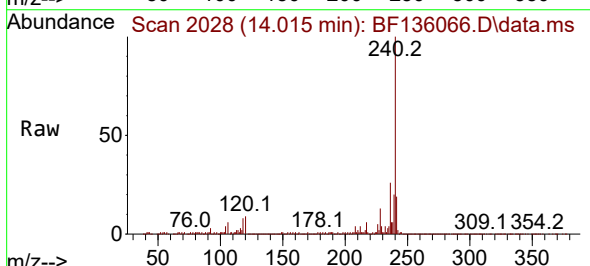
Tgt Ion:240 Resp: 289218

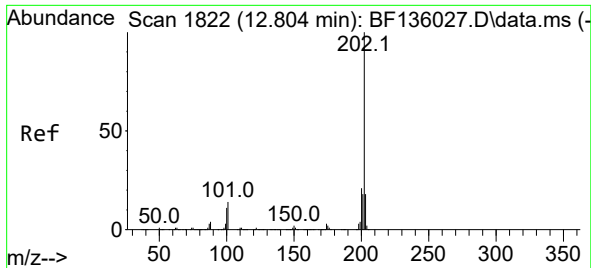
Ion Ratio Lower Upper

240 100

120 9.3 7.6 11.4

236 25.5 20.6 31.0

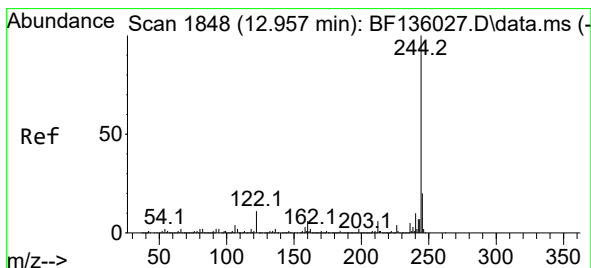
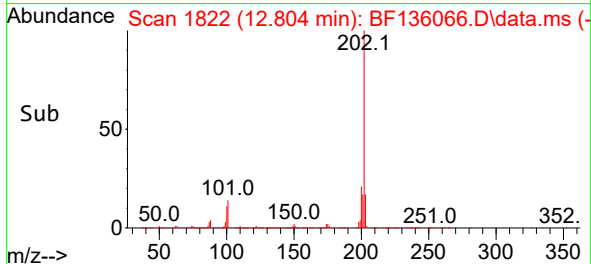
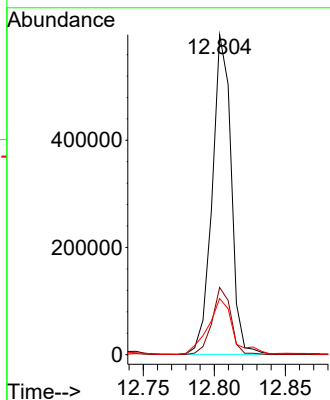
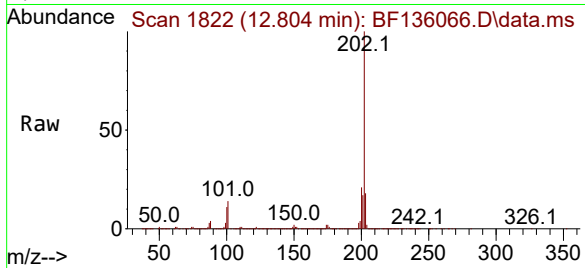




#78
Pyrene
Concen: 21.662 ng
RT: 12.804 min Scan# 1822
Delta R.T. 0.000 min
Lab File: BF136066.D
Acq: 31 Oct 2023 22:45

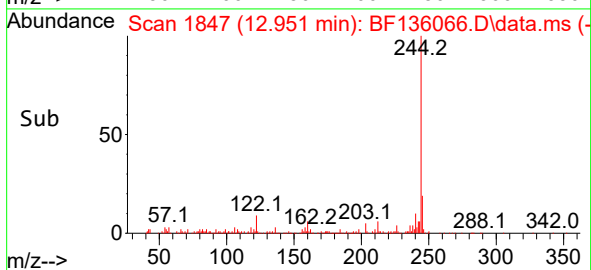
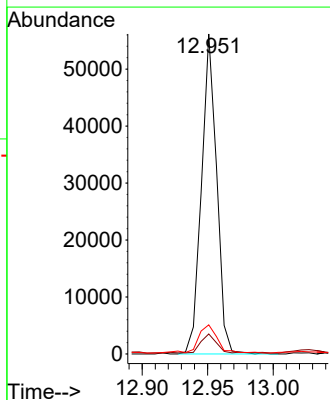
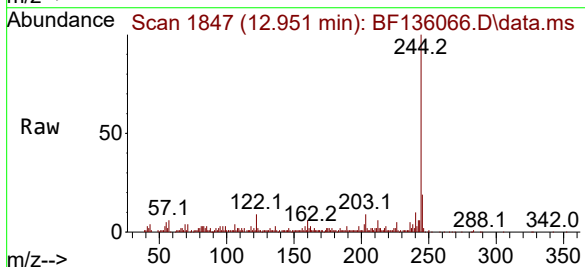
Instrument :
BNA_F
ClientSampleId :
B-1(0-5)DL

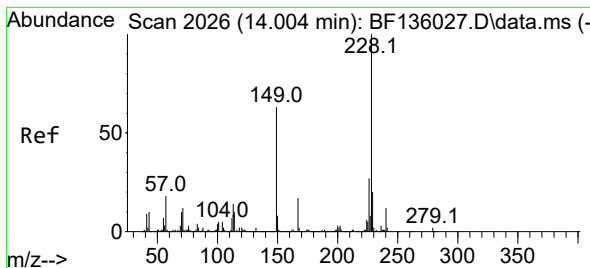
Tgt Ion:202 Resp: 552348
Ion Ratio Lower Upper
202 100
200 21.0 17.0 25.4
203 17.5 14.4 21.6



#79
Terphenyl-d14
Concen: 2.442 ng
RT: 12.951 min Scan# 1847
Delta R.T. -0.006 min
Lab File: BF136066.D
Acq: 31 Oct 2023 22:45

Tgt Ion:244 Resp: 45442
Ion Ratio Lower Upper
244 100
212 6.3 5.1 7.7
122 9.1 8.6 12.8





#81

Benzo(a)anthracene

Concen: 14.486 ng

RT: 14.004 min Scan# 2026

Delta R.T. 0.000 min

Lab File: BF136066.D

Acq: 31 Oct 2023 22:45

Instrument :

BNA_F

ClientSampleId :

B-1(0-5)DL

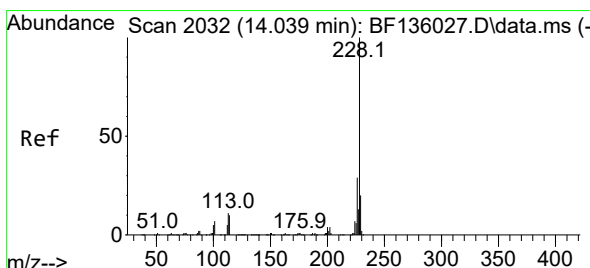
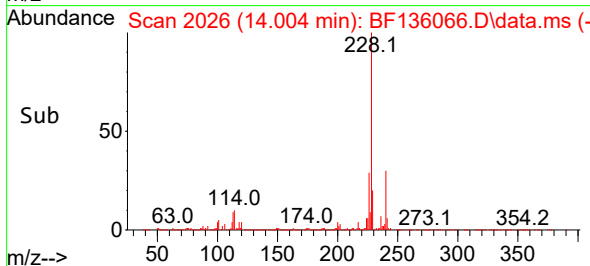
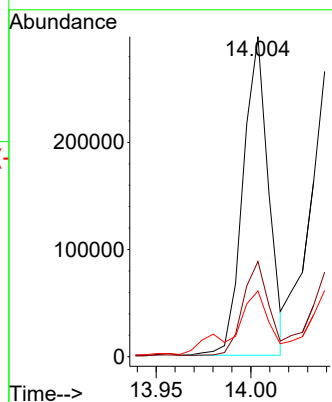
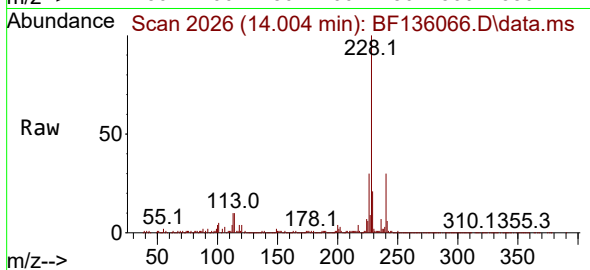
Tgt Ion:228 Resp: 277369

Ion Ratio Lower Upper

228 100

226 29.7 21.5 32.3

229 20.6 15.8 23.6



#83

Chrysene

Concen: 12.239 ng

RT: 14.039 min Scan# 2032

Delta R.T. 0.000 min

Lab File: BF136066.D

Acq: 31 Oct 2023 22:45

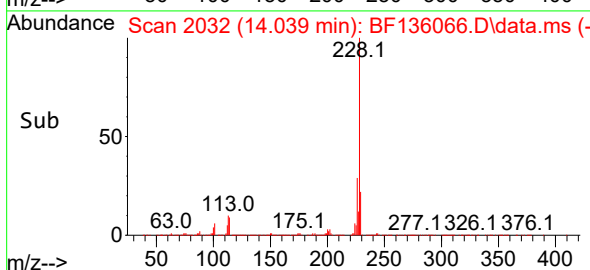
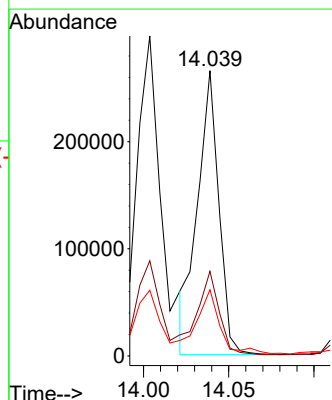
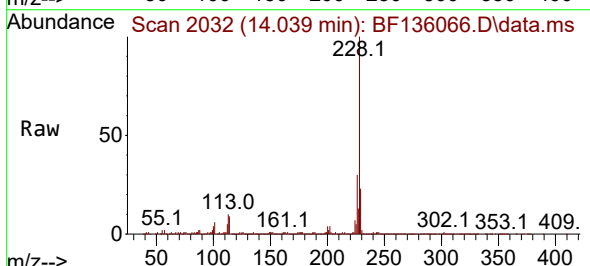
Tgt Ion:228 Resp: 230780

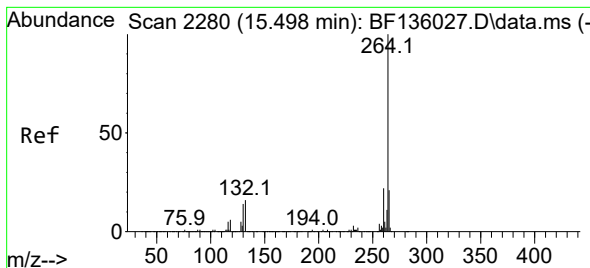
Ion Ratio Lower Upper

228 100

226 29.7 23.5 35.3

229 23.2 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: BF136066.D

Acq: 31 Oct 2023 22:45

Instrument :

BNA_F

ClientSampleId :

B-1(0-5)DL

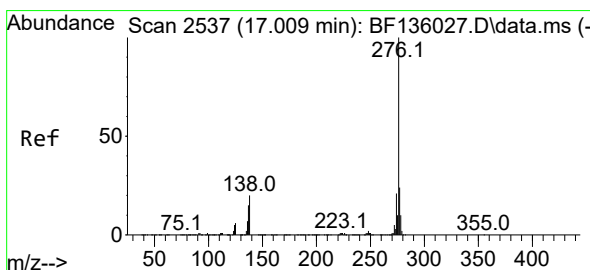
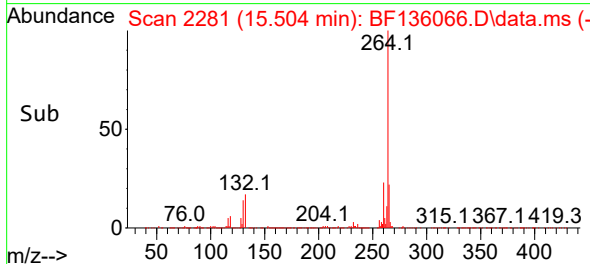
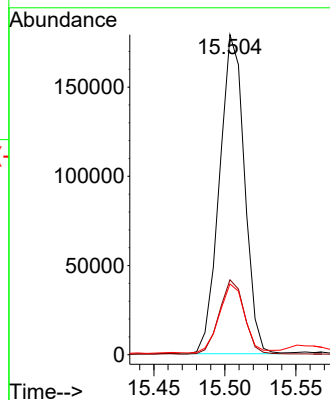
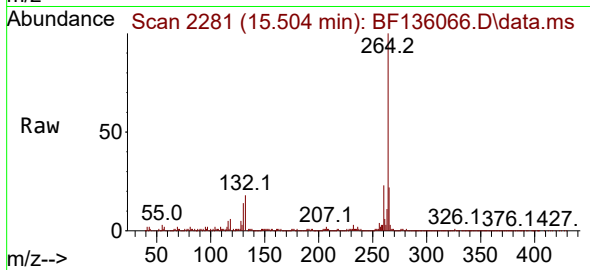
Tgt Ion:264 Resp: 219047

Ion Ratio Lower Upper

264 100

260 23.4 17.9 26.9

265 22.1 16.8 25.2



#87

Indeno(1,2,3-cd)pyrene

Concen: 7.274 ng

RT: 17.015 min Scan# 2538

Delta R.T. 0.006 min

Lab File: BF136066.D

Acq: 31 Oct 2023 22:45

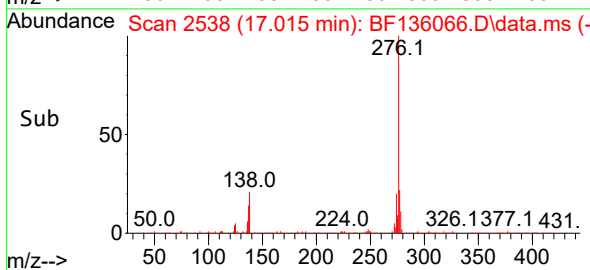
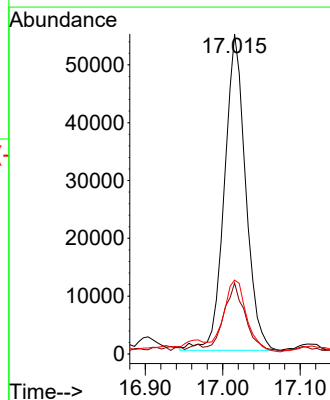
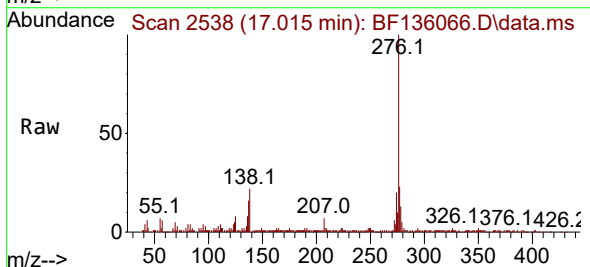
Tgt Ion:276 Resp: 104133

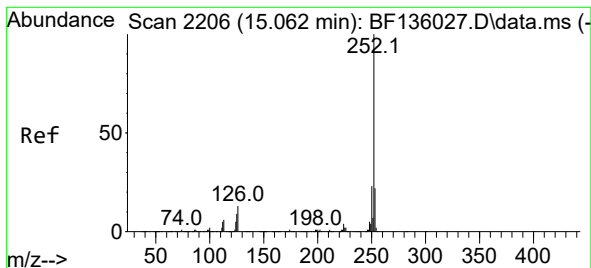
Ion Ratio Lower Upper

276 100

138 21.4 20.4 30.6

277 24.8 20.2 30.2





#88

Benzo(b)fluoranthene

Concen: 28.929 ng

RT: 15.068 min Scan# 2207

Delta R.T. 0.006 min

Lab File: BF136066.D

Acq: 31 Oct 2023 22:45

Instrument :

BNA_F

ClientSampleId :

B-1(0-5)DL

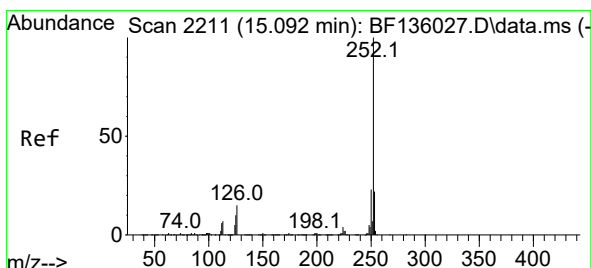
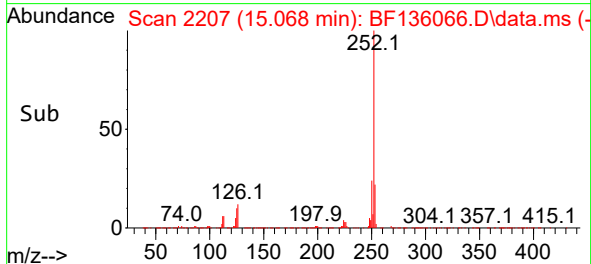
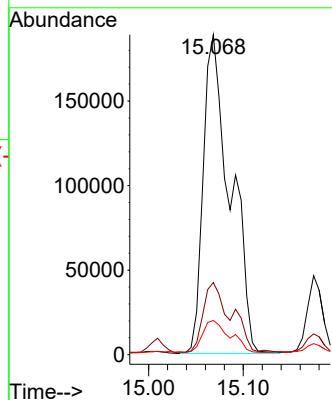
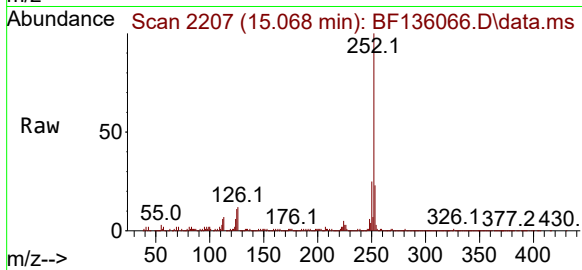
Tgt Ion:252 Resp: 374961

Ion Ratio Lower Upper

252 100

253 22.6 17.7 26.5

125 10.7 7.5 11.3



#89

Benzo(k)fluoranthene

Concen: 29.238 ng

RT: 15.068 min Scan# 2207

Delta R.T. -0.023 min

Lab File: BF136066.D

Acq: 31 Oct 2023 22:45

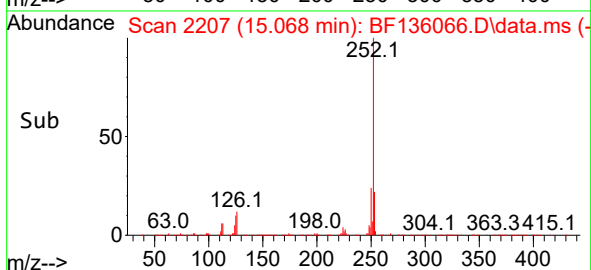
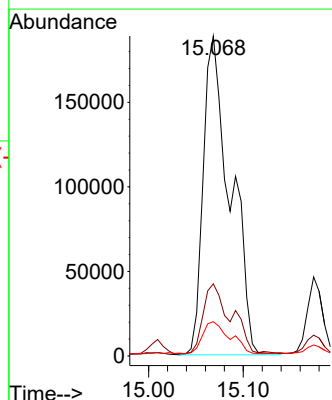
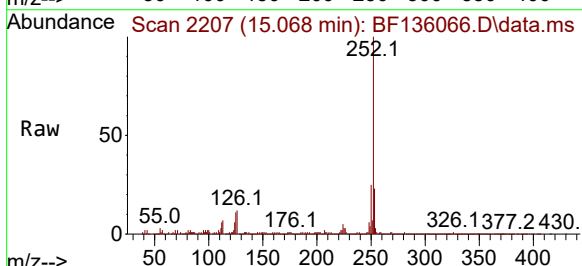
Tgt Ion:252 Resp: 374961

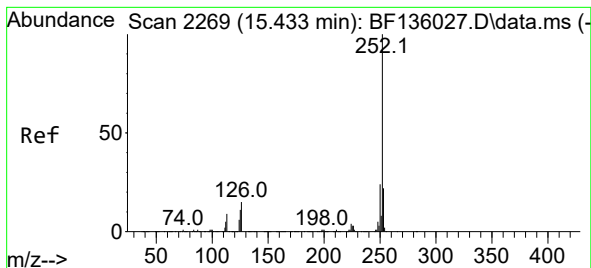
Ion Ratio Lower Upper

252 100

253 22.6 17.4 26.0

125 10.7 8.0 12.0





#90

Benzo(a)pyrene

Concen: 16.688 ng

RT: 15.439 min Scan# 21

Delta R.T. 0.006 min

Lab File: BF136066.D

Acq: 31 Oct 2023 22:45

Instrument :

BNA_F

ClientSampleId :

B-1(0-5)DL

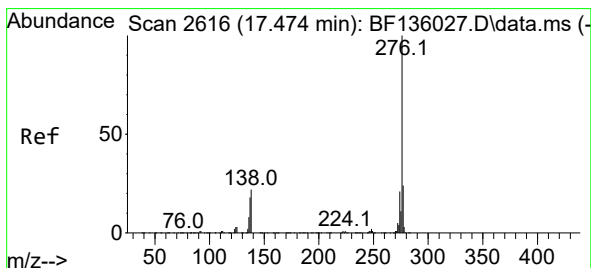
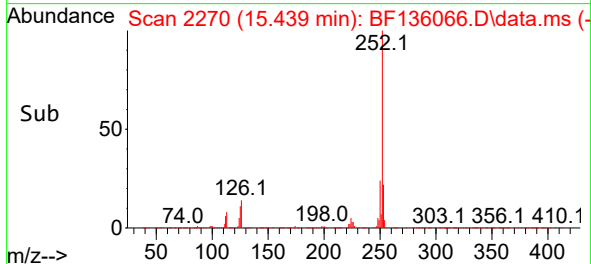
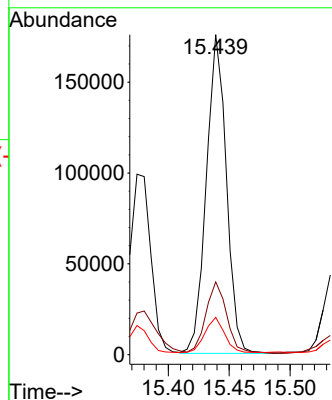
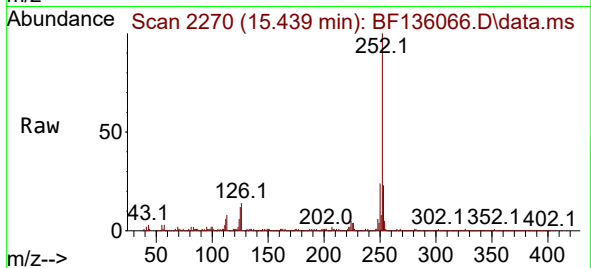
Tgt Ion:252 Resp: 200970

Ion Ratio Lower Upper

252 100

253 22.7 17.3 25.9

125 11.7 9.0 13.6



#92

Benzo(g,h,i)perylene

Concen: 9.617 ng

RT: 17.474 min Scan# 2616

Delta R.T. 0.000 min

Lab File: BF136066.D

Acq: 31 Oct 2023 22:45

Tgt Ion:276 Resp: 95506

Ion Ratio Lower Upper

276 100

277 23.1 19.0 28.4

138 21.6 17.4 26.2

