

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF062123\
 Data File : BF133886.D
 Acq On : 21 Jun 2023 23:19
 Operator : CG\JU
 Sample : 03289-22 2X
 Misc :
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SB-08-0-2.0

Quant Time: Jun 22 06:02:45 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF060923.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Jun 20 13:43:46 2023
 Response via : Initial Calibration

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

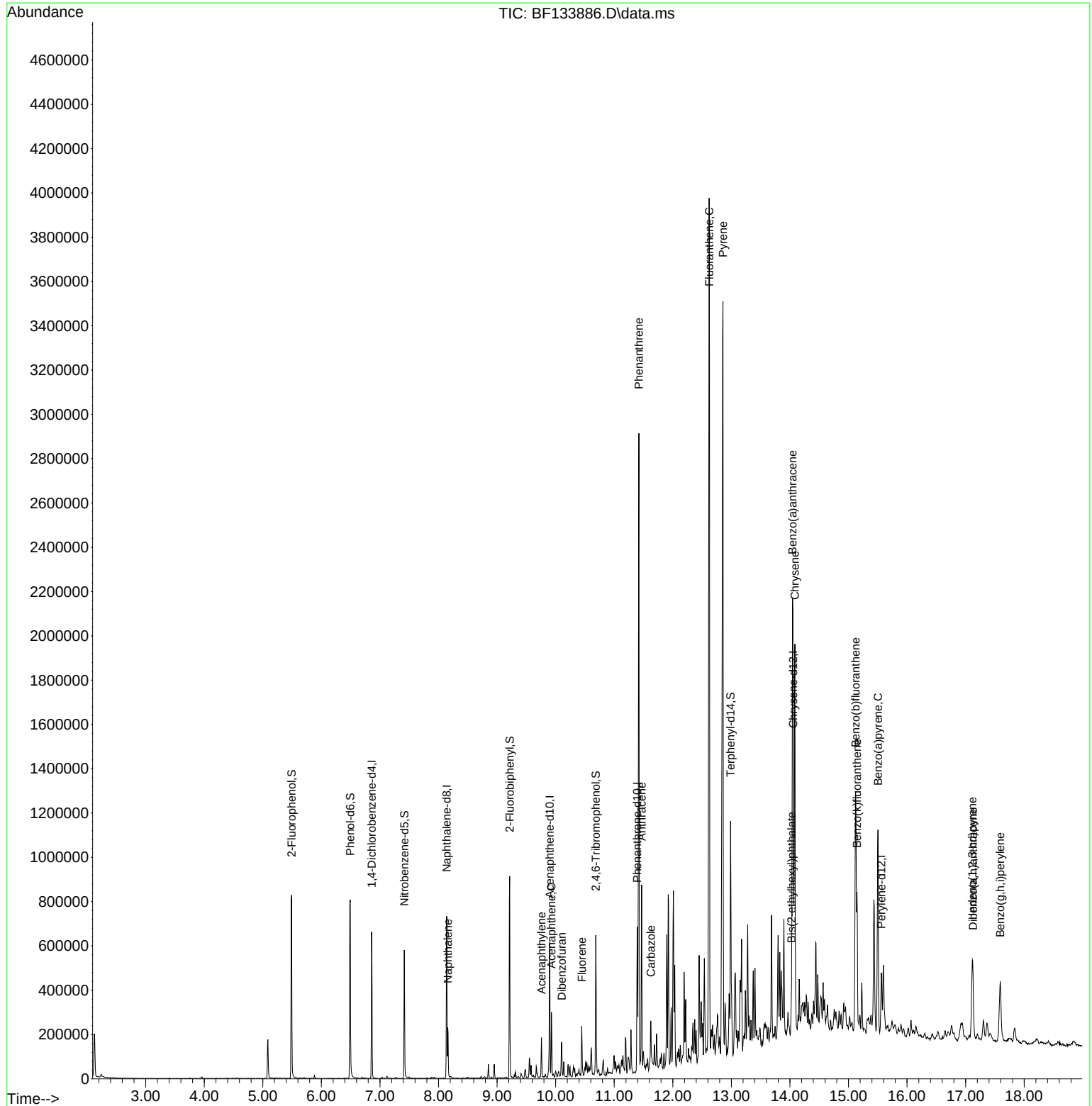
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.857	152	92278	20.000	ng	0.00
21) Naphthalene-d8	8.139	136	291731	20.000	ng	0.00
39) Acenaphthene-d10	9.898	164	116988	20.000	ng	0.00
64) Phenanthrene-d10	11.392	188	241606	20.000	ng	0.00
76) Chrysene-d12	14.057	240	159487	20.000	ng	0.01
86) Perylene-d12	15.562	264	126068	20.000	ng	0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.492	112	223719	42.206	ng	0.00
7) Phenol-d6	6.492	99	248971	36.085	ng	0.00
23) Nitrobenzene-d5	7.416	82	155452	29.023	ng	0.00
42) 2,4,6-Tribromophenol	10.686	330	59961	40.491	ng	0.00
45) 2-Fluorobiphenyl	9.216	172	262389	31.883	ng	0.00
79) Terphenyl-d14	12.986	244	329116	31.931	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.157	128	88931	6.257	ng	97
49) Acenaphthylene	9.757	152	62378	5.295	ng	99
52) Acenaphthene	9.927	154	53634	7.779	ng	97
55) Dibenzofuran	10.104	168	44978	4.275	ng	95
58) Fluorene	10.445	166	57548	7.152	ng	99
71) Phenanthrene	11.421	178	1047513	85.456	ng	99
72) Anthracene	11.469	178	280987	21.984	ng	99
73) Carbazole	11.627	167	87596	7.359	ng	98
75) Fluoranthene	12.621	202	1821030	139.896	ng	98
78) Pyrene	12.857	202	1705139	114.772	ng	99
81) Benzo(a)anthracene	14.045	228	849299	76.987	ng	96
83) Chrysene	14.086	228	706282	67.690	ng	97
84) Bis(2-ethylhexyl)phtha...	14.027	149	15456	2.001	ng	# 99
87) Indeno(1,2,3-cd)pyrene	17.115	276	283109	32.642	ng	95
88) Benzo(b)fluoranthene	15.121	252	665829m	86.944	ng	
89) Benzo(k)fluoranthene	15.145	252	208296m	27.922	ng	
90) Benzo(a)pyrene	15.504	252	452856	63.717	ng	98
91) Dibenzo(a,h)anthracene	17.127	278	72205	10.056	ng	# 91
92) Benzo(g,h,i)perylene	17.592	276	258317	36.285	ng	98

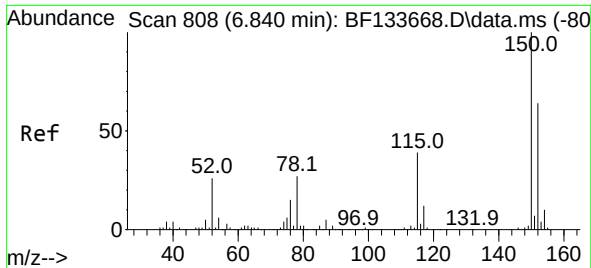
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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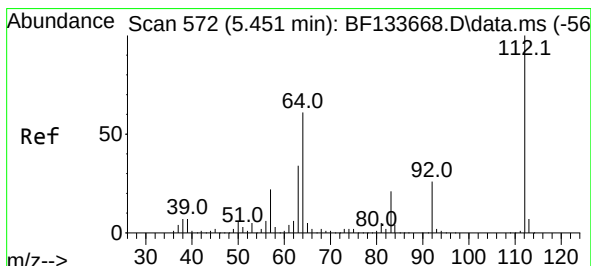
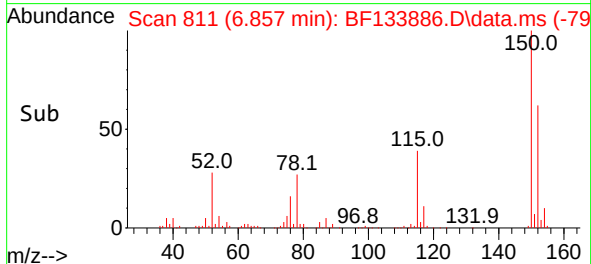
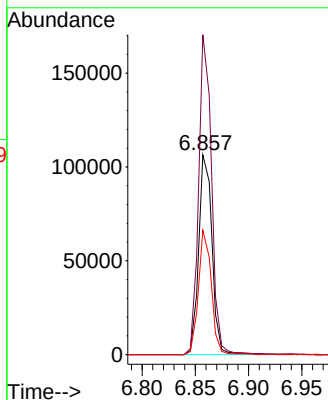
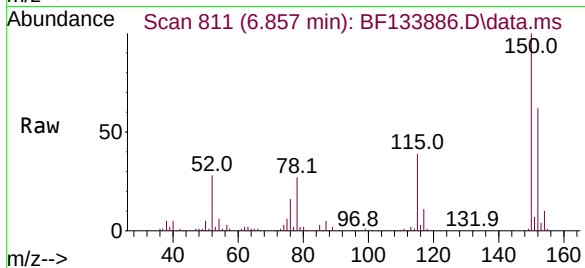




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.857 min Scan# 811
Delta R.T. 0.000 min
Lab File: BF133886.D
Acq: 21 Jun 2023 23:19

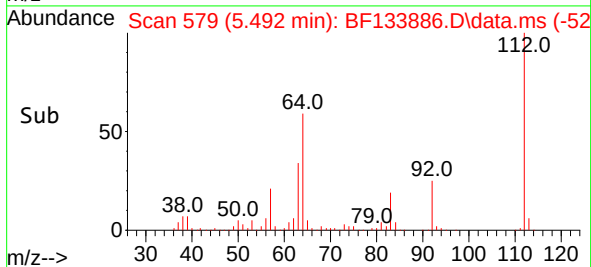
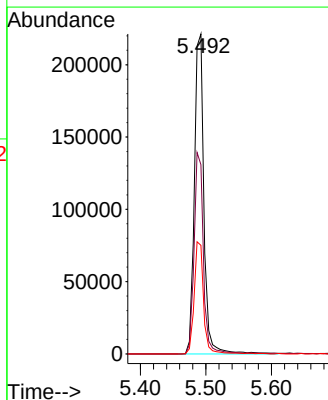
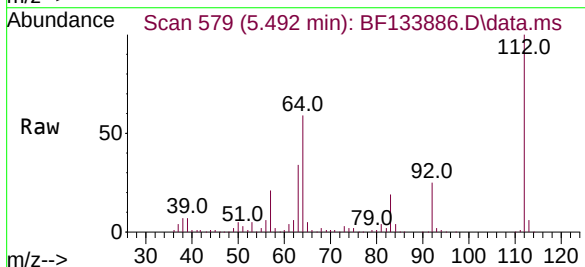
Instrument :
BNA_F
ClientSampleId :
SB-08-0-2.0

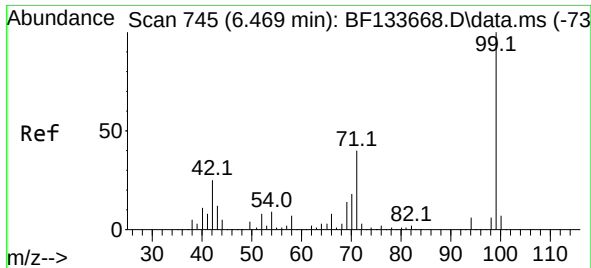
Tgt Ion:152 Resp: 92278
Ion Ratio Lower Upper
152 100
150 160.1 124.3 186.5
115 62.3 48.5 72.7



#5
2-Fluorophenol
Concen: 42.206 ng
RT: 5.492 min Scan# 579
Delta R.T. 0.006 min
Lab File: BF133886.D
Acq: 21 Jun 2023 23:19

Tgt Ion:112 Resp: 223719
Ion Ratio Lower Upper
112 100
64 59.1 49.0 73.4
63 33.9 26.8 40.2

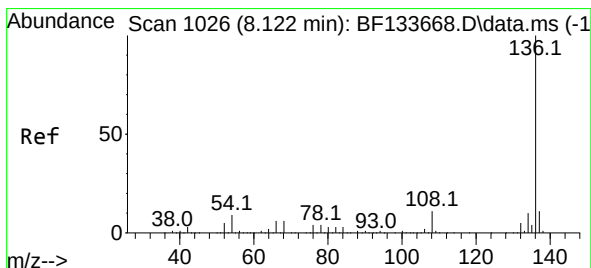
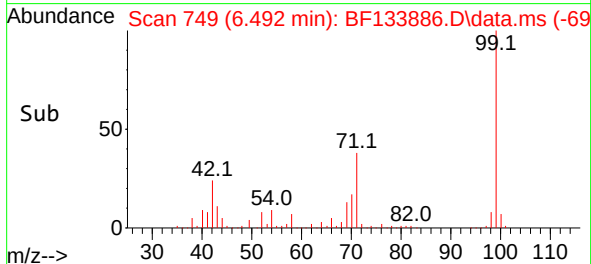
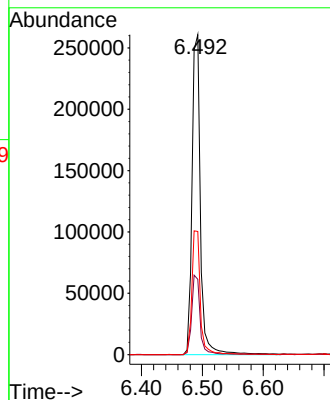
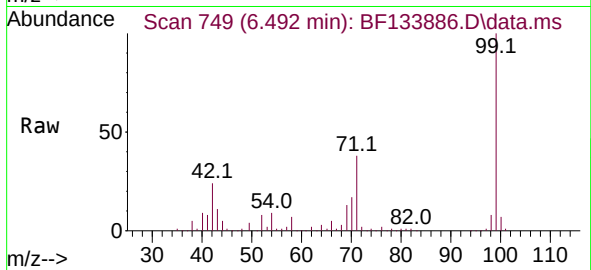




#7
Phenol-d6
Concen: 36.085 ng
RT: 6.492 min Scan# 745
Delta R.T. -0.000 min
Lab File: BF133886.D
Acq: 21 Jun 2023 23:19

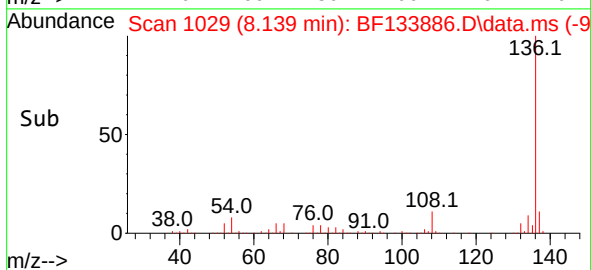
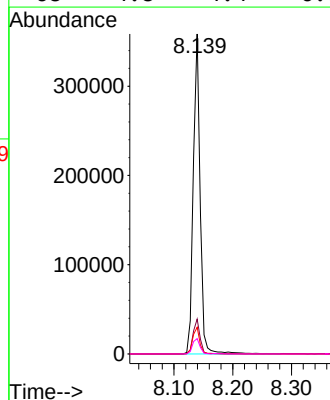
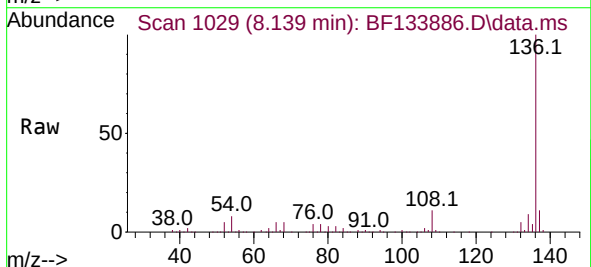
Instrument :
BNA_F
ClientSampleId :
SB-08-0-2.0

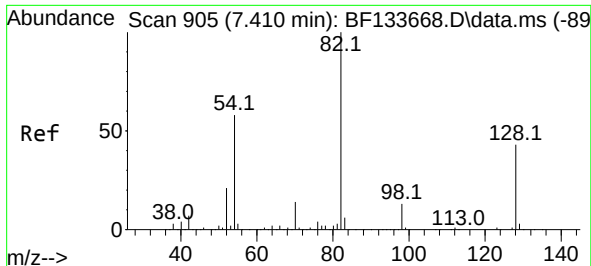
Tgt Ion: 99 Resp: 248971
Ion Ratio Lower Upper
99 100
42 23.5 19.9 29.9
71 38.5 32.2 48.4



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.139 min Scan# 1029
Delta R.T. -0.000 min
Lab File: BF133886.D
Acq: 21 Jun 2023 23:19

Tgt Ion:136 Resp: 291731
Ion Ratio Lower Upper
136 100
137 10.9 8.8 13.2
54 8.3 7.4 11.0
68 4.8 4.4 6.6

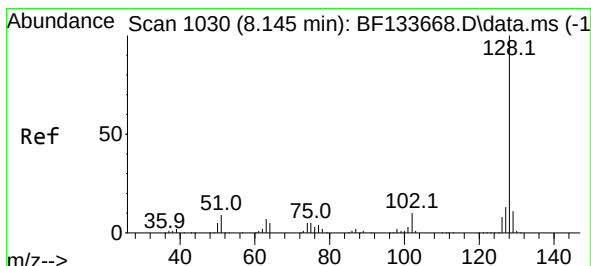
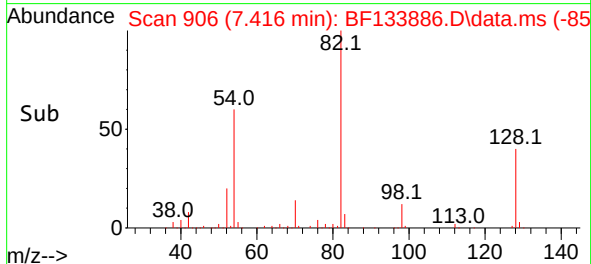
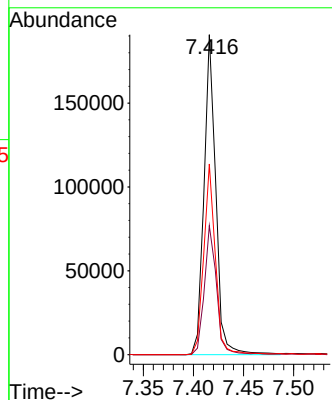
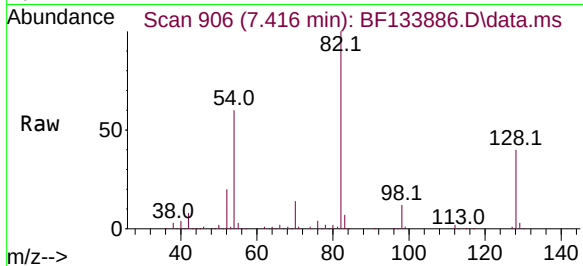




#23
Nitrobenzene-d5
Concen: 29.023 ng
RT: 7.416 min Scan# 905
Delta R.T. -0.006 min
Lab File: BF133886.D
Acq: 21 Jun 2023 23:19

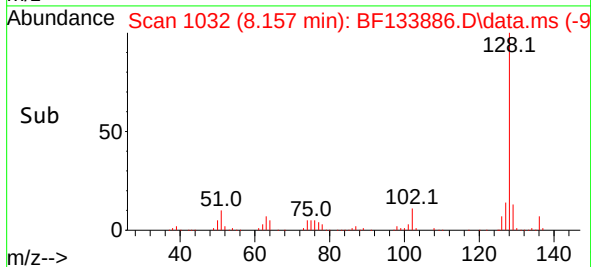
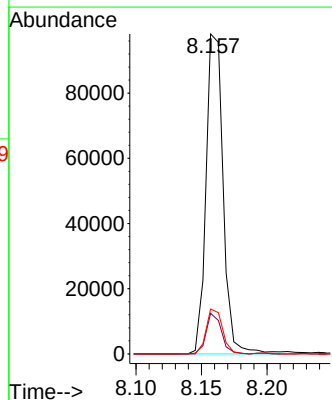
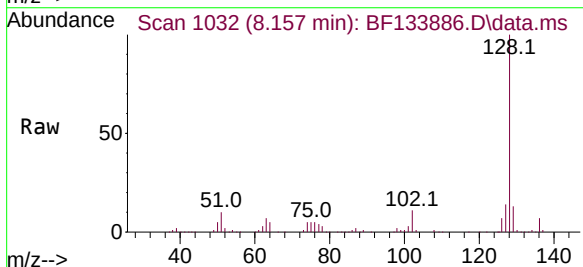
Instrument :
BNA_F
ClientSampleId :
SB-08-0-2.0

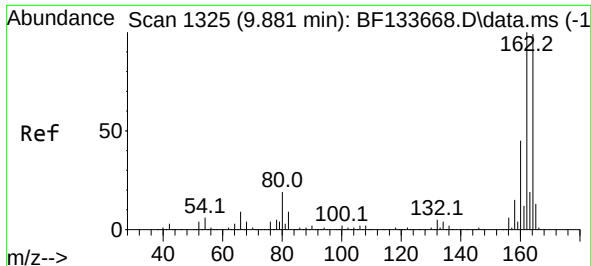
Tgt Ion: 82 Resp: 155452
Ion Ratio Lower Upper
82 100
128 40.3 34.2 51.2
54 59.6 46.5 69.7



#31
Naphthalene
Concen: 6.257 ng
RT: 8.157 min Scan# 1032
Delta R.T. -0.006 min
Lab File: BF133886.D
Acq: 21 Jun 2023 23:19

Tgt Ion: 128 Resp: 88931
Ion Ratio Lower Upper
128 100
129 12.7 8.9 13.3
127 14.0 10.5 15.7





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.898 min Scan# 1328

Delta R.T. -0.000 min

Lab File: BF133886.D

Acq: 21 Jun 2023 23:19

Instrument :

BNA_F

ClientSampleId :

SB-08-0-2.0

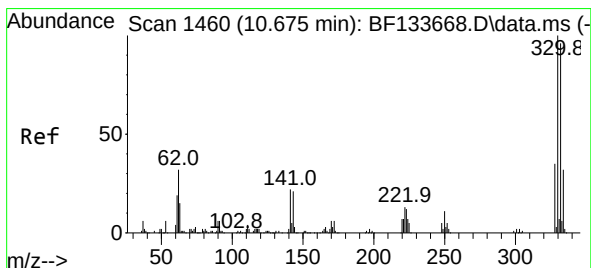
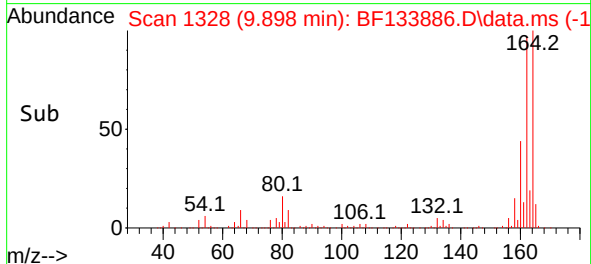
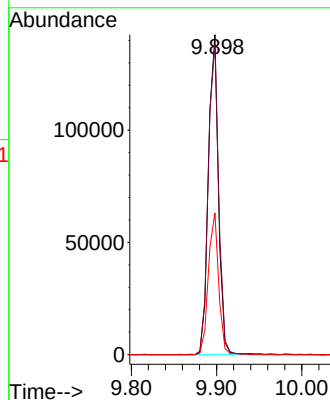
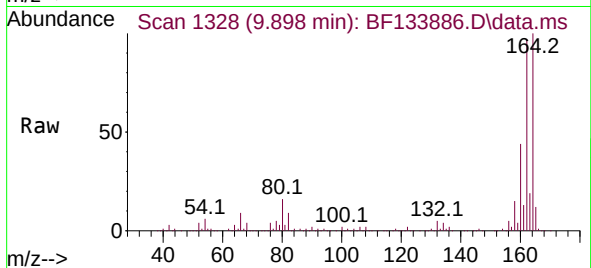
Tgt Ion:164 Resp: 116988

Ion Ratio Lower Upper

164 100

162 97.0 80.8 121.2

160 44.3 36.7 55.1



#42

2,4,6-Tribromophenol

Concen: 40.491 ng

RT: 10.686 min Scan# 1462

Delta R.T. -0.006 min

Lab File: BF133886.D

Acq: 21 Jun 2023 23:19

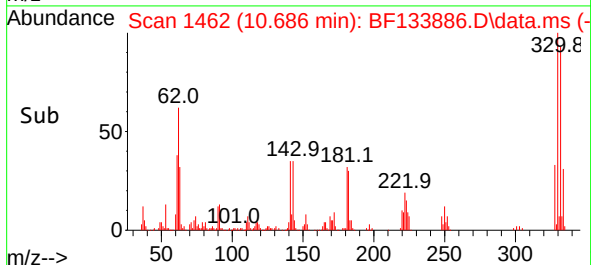
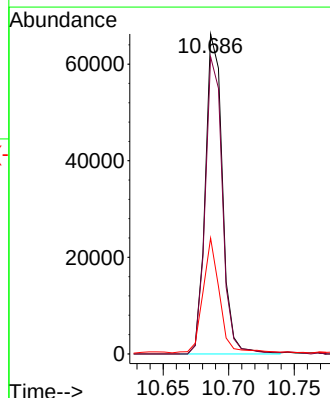
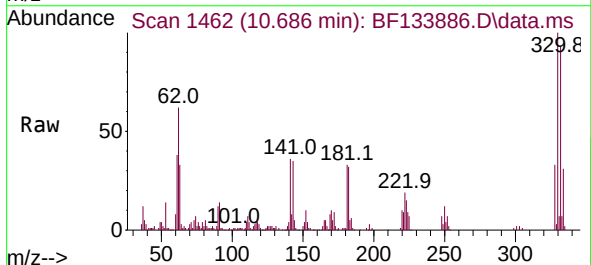
Tgt Ion:330 Resp: 59961

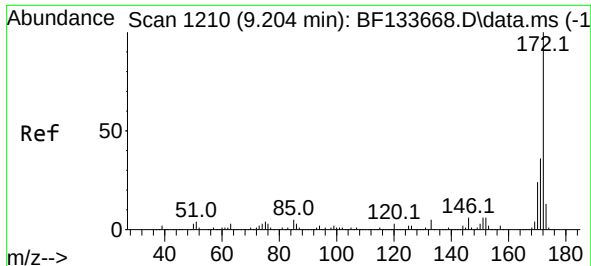
Ion Ratio Lower Upper

330 100

332 93.4 77.2 115.8

141 35.3 24.9 37.3





#45

2-Fluorobiphenyl

Concen: 31.883 ng

RT: 9.216 min Scan# 11

Delta R.T. -0.000 min

Lab File: BF133886.D

Acq: 21 Jun 2023 23:19

Instrument :

BNA_F

ClientSampleId :

SB-08-0-2.0

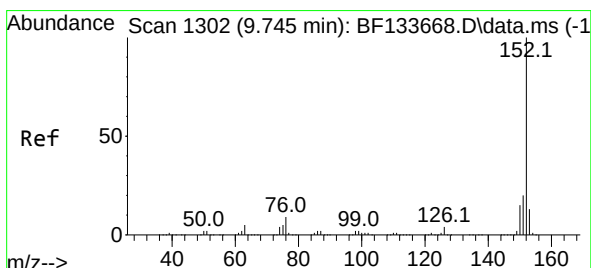
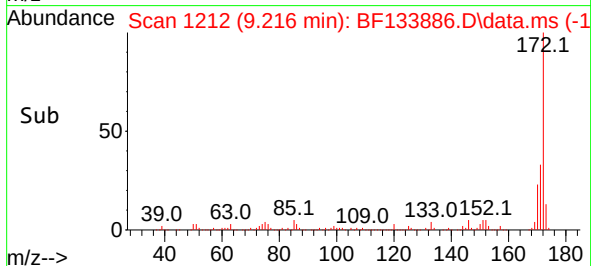
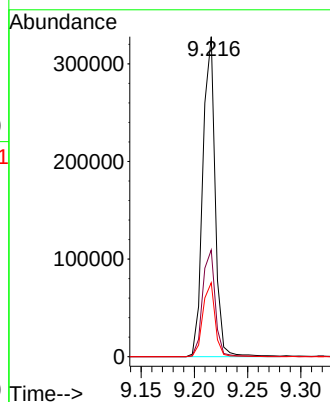
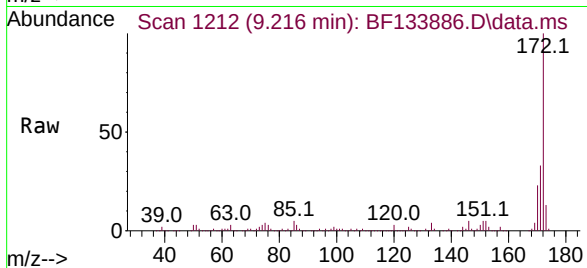
Tgt Ion:172 Resp: 262389

Ion Ratio Lower Upper

172 100

171 33.3 28.6 43.0

170 23.1 19.1 28.7



#49

Acenaphthylene

Concen: 5.295 ng

RT: 9.757 min Scan# 1304

Delta R.T. -0.000 min

Lab File: BF133886.D

Acq: 21 Jun 2023 23:19

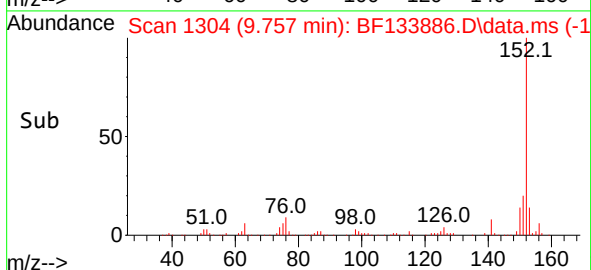
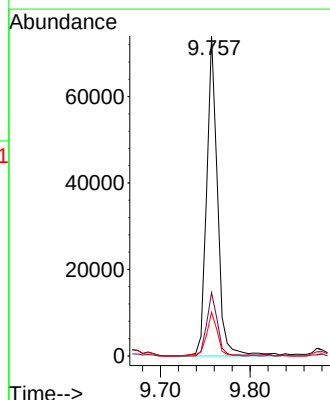
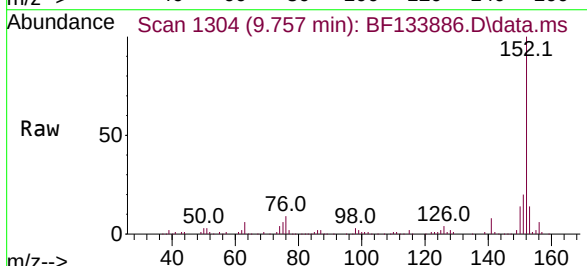
Tgt Ion:152 Resp: 62378

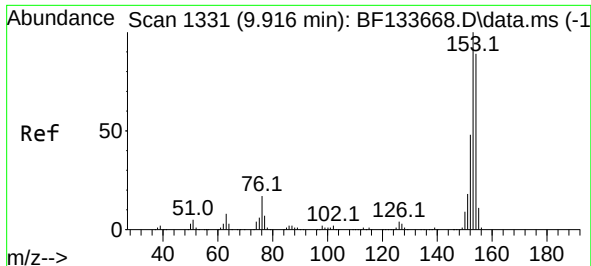
Ion Ratio Lower Upper

152 100

151 19.8 16.2 24.4

153 13.6 10.4 15.6

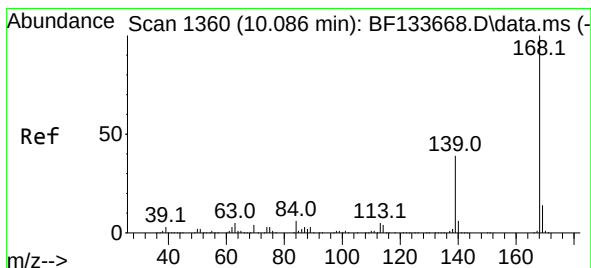
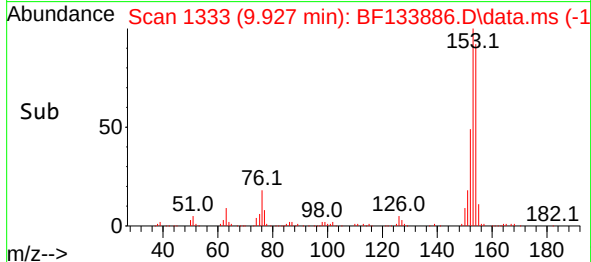
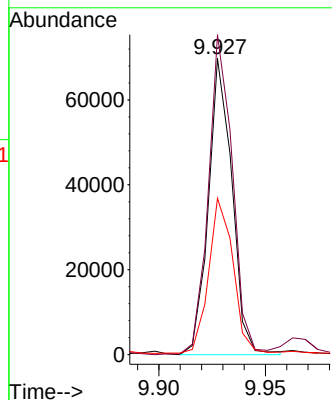
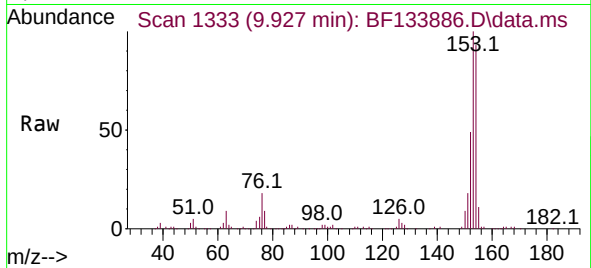




#52
Acenaphthene
Concen: 7.779 ng
RT: 9.927 min Scan# 1333
Delta R.T. -0.006 min
Lab File: BF133886.D
Acq: 21 Jun 2023 23:19

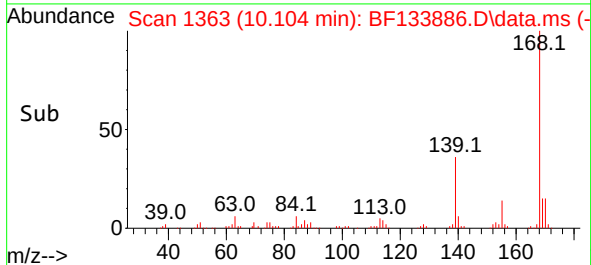
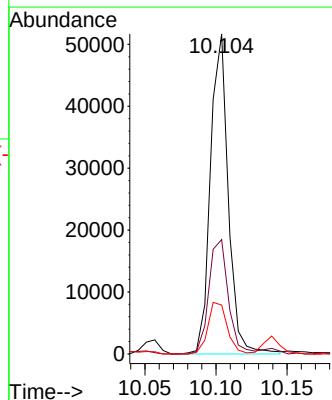
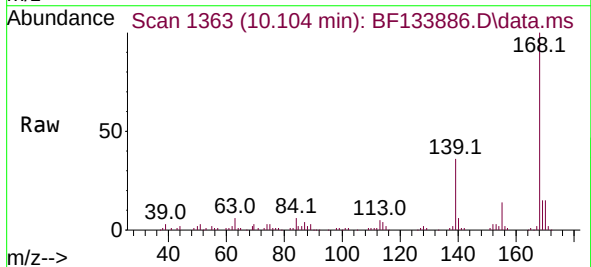
Instrument :
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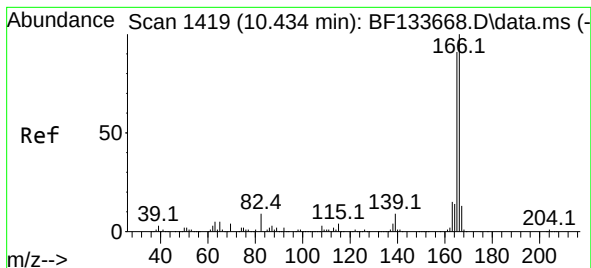
Tgt Ion:154 Resp: 53634
Ion Ratio Lower Upper
154 100
153 108.1 89.8 134.8
152 52.8 43.4 65.2



#55
Dibenzofuran
Concen: 4.275 ng
RT: 10.104 min Scan# 1363
Delta R.T. -0.000 min
Lab File: BF133886.D
Acq: 21 Jun 2023 23:19

Tgt Ion:168 Resp: 44978
Ion Ratio Lower Upper
168 100
139 35.7 30.9 46.3
169 15.3 10.9 16.3





#58

Fluorene

Concen: 7.152 ng

RT: 10.445 min Scan# 1419

Delta R.T. -0.000 min

Lab File: BF133886.D

Acq: 21 Jun 2023 23:19

Instrument :

BNA_F

ClientSampleId :

SB-08-0-2.0

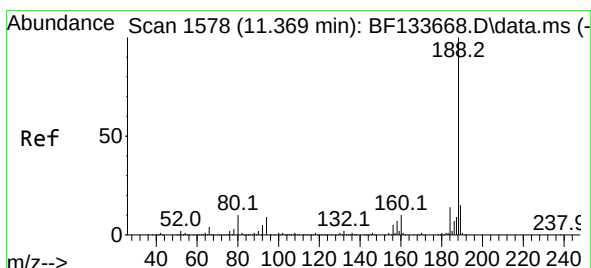
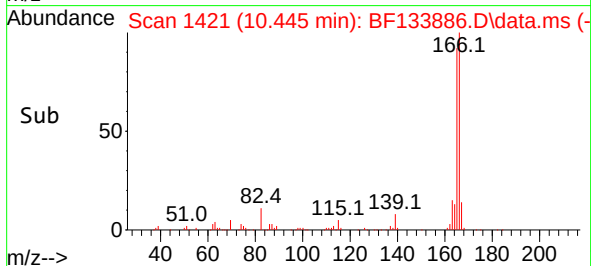
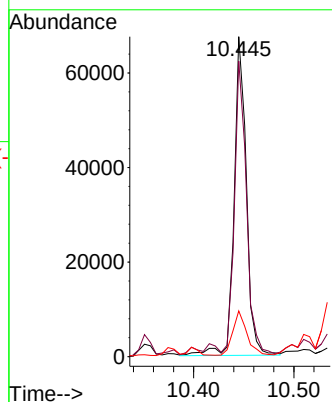
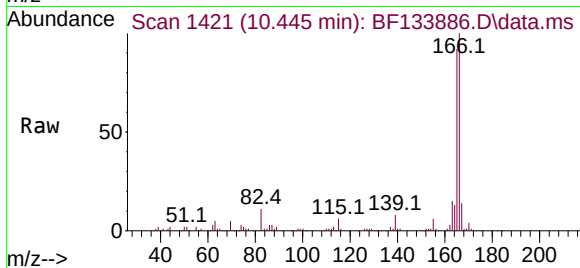
Tgt Ion:166 Resp: 57548

Ion Ratio Lower Upper

166 100

165 92.3 73.1 109.7

167 14.3 10.5 15.7



#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.392 min Scan# 1582

Delta R.T. 0.006 min

Lab File: BF133886.D

Acq: 21 Jun 2023 23:19

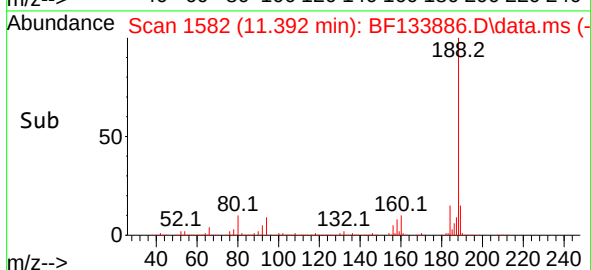
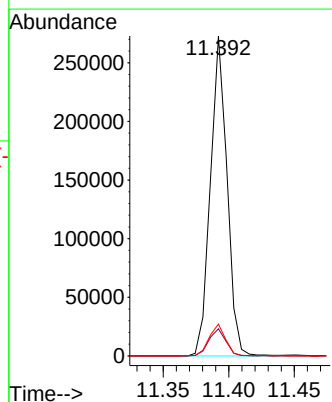
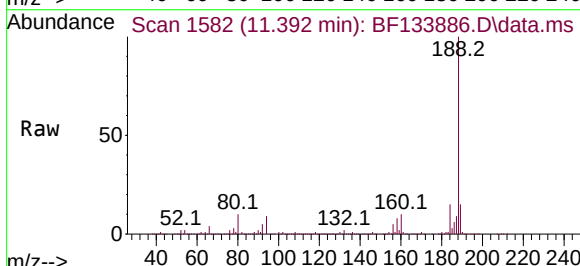
Tgt Ion:188 Resp: 241606

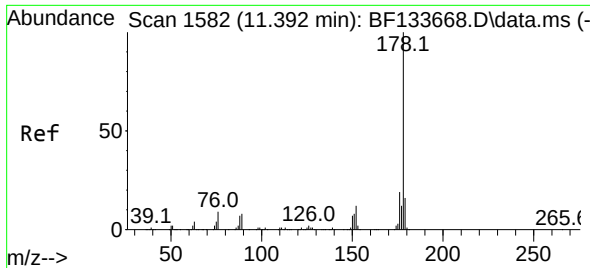
Ion Ratio Lower Upper

188 100

94 8.5 6.8 10.2

80 9.9 7.8 11.6

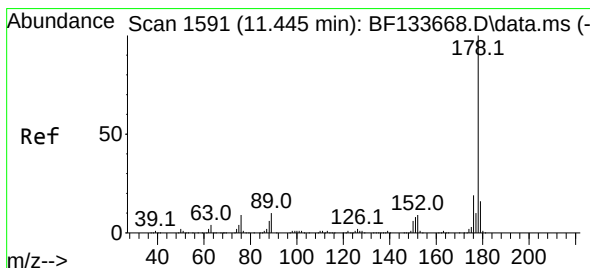
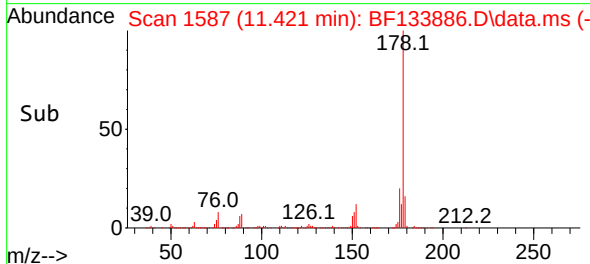
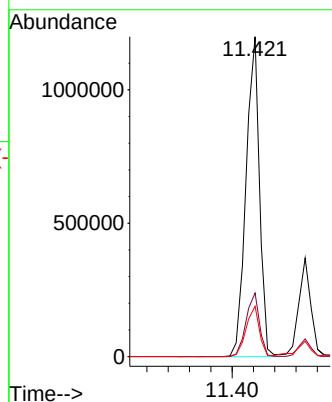
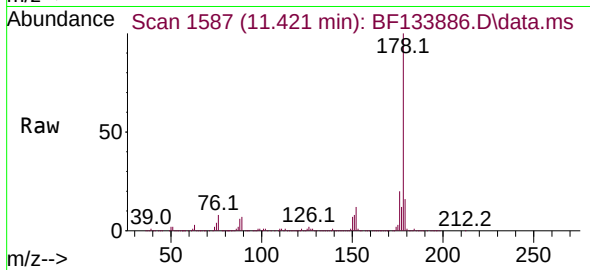




#71
Phenanthrene
Concen: 85.456 ng
RT: 11.421 min Scan# 1587
Delta R.T. 0.006 min
Lab File: BF133886.D
Acq: 21 Jun 2023 23:19

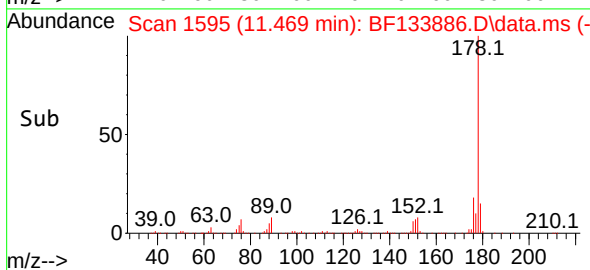
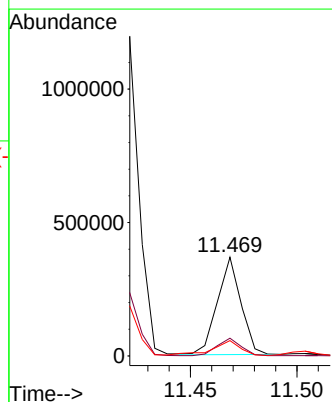
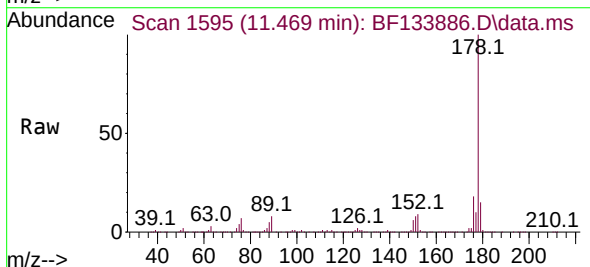
Instrument :
BNA_F
ClientSampleId :
SB-08-0-2.0

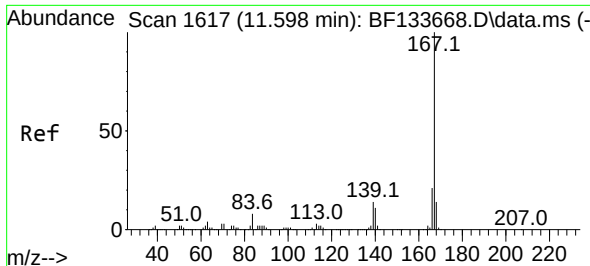
Tgt Ion:178 Resp: 1047513
Ion Ratio Lower Upper
178 100
176 19.9 15.6 23.4
179 15.7 12.4 18.6



#72
Anthracene
Concen: 21.984 ng
RT: 11.469 min Scan# 1595
Delta R.T. -0.000 min
Lab File: BF133886.D
Acq: 21 Jun 2023 23:19

Tgt Ion:178 Resp: 280987
Ion Ratio Lower Upper
178 100
176 18.0 15.1 22.7
179 15.5 12.6 18.8

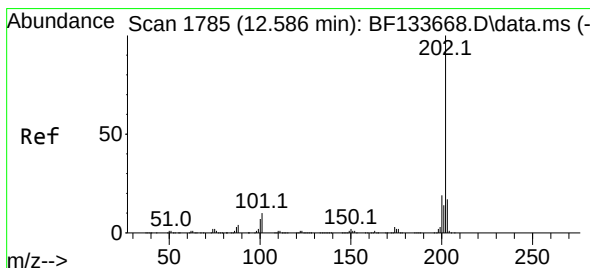
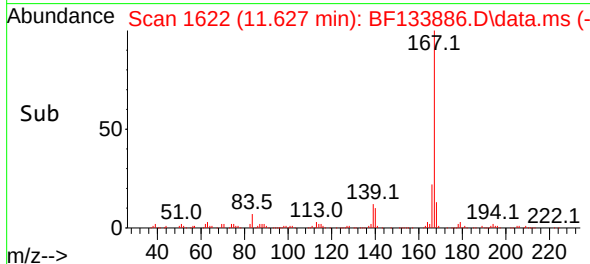
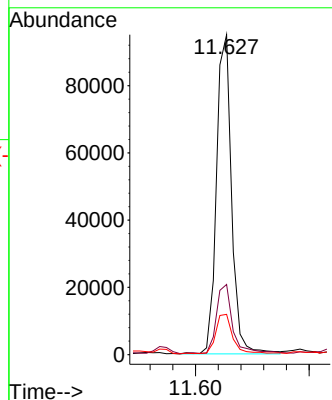
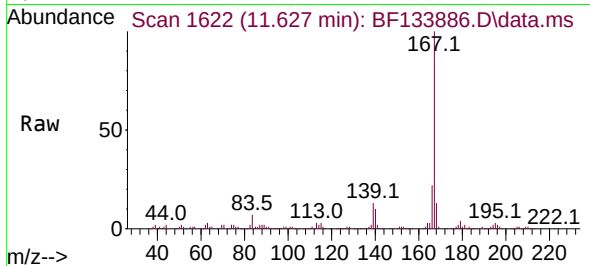




#73
 Carbazole
 Concen: 7.359 ng
 RT: 11.627 min Scan# 1622
 Delta R.T. 0.006 min
 Lab File: BF133886.D
 Acq: 21 Jun 2023 23:19

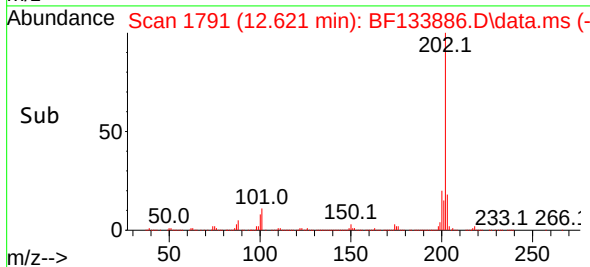
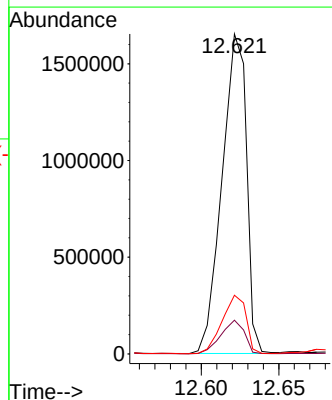
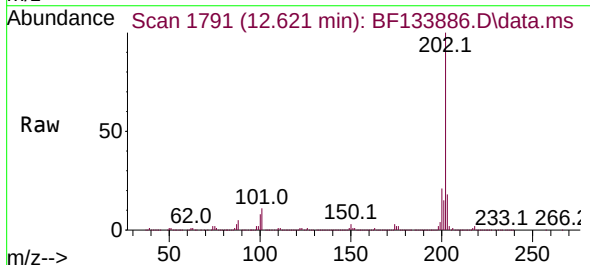
Instrument :
 BNA_F
 ClientSampleId :
 SB-08-0-2.0

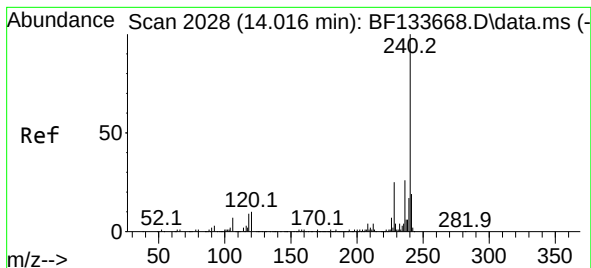
Tgt Ion:167 Resp: 87596
 Ion Ratio Lower Upper
 167 100
 166 21.9 17.0 25.6
 139 12.6 11.2 16.8



#75
 Fluoranthene
 Concen: 139.896 ng
 RT: 12.621 min Scan# 1791
 Delta R.T. 0.012 min
 Lab File: BF133886.D
 Acq: 21 Jun 2023 23:19

Tgt Ion:202 Resp: 1821030
 Ion Ratio Lower Upper
 202 100
 101 10.5 0.0 29.6
 203 18.3 0.0 37.4





#76

Chrysene-d12

Concen: 20.000 ng

RT: 14.057 min Scan# 2028

Delta R.T. 0.012 min

Lab File: BF133886.D

Acq: 21 Jun 2023 23:19

Instrument :

BNA_F

ClientSampleId :

SB-08-0-2.0

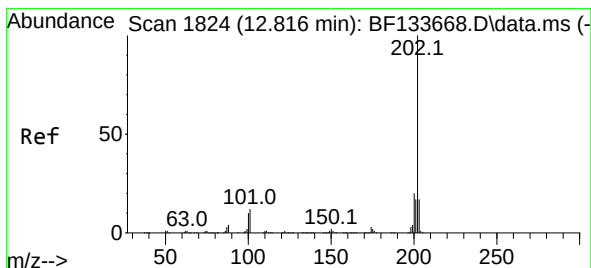
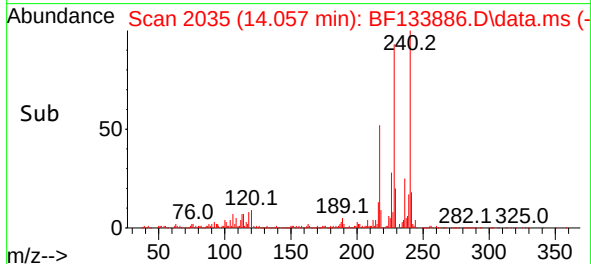
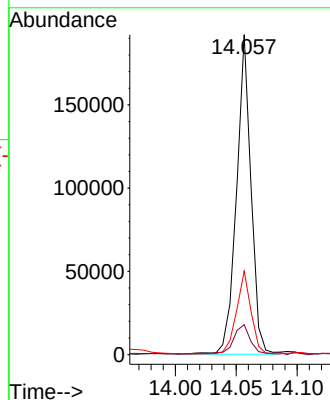
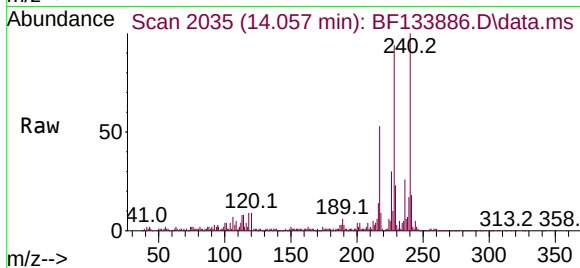
Tgt Ion:240 Resp: 159487

Ion Ratio Lower Upper

240 100

120 9.4 8.1 12.1

236 26.1 20.5 30.7



#78

Pyrene

Concen: 114.772 ng

RT: 12.857 min Scan# 1831

Delta R.T. 0.018 min

Lab File: BF133886.D

Acq: 21 Jun 2023 23:19

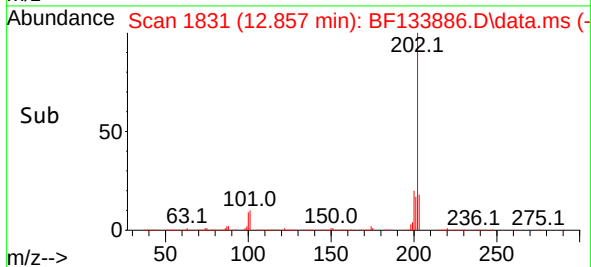
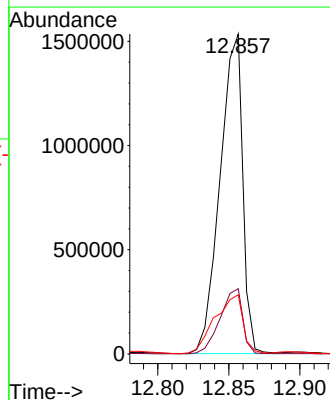
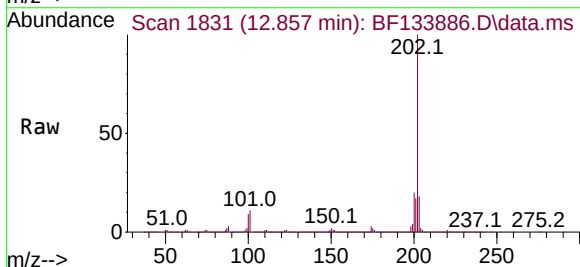
Tgt Ion:202 Resp: 1705139

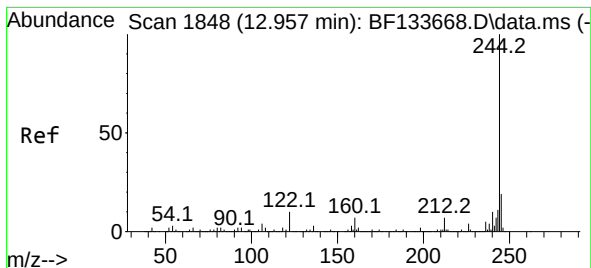
Ion Ratio Lower Upper

202 100

200 20.4 16.2 24.2

203 18.5 13.9 20.9





#79

Terphenyl-d14

Concen: 31.931 ng

RT: 12.986 min Scan# 1848

Delta R.T. -0.000 min

Lab File: BF133886.D

Acq: 21 Jun 2023 23:19

Instrument :

BNA_F

ClientSampleId :

SB-08-0-2.0

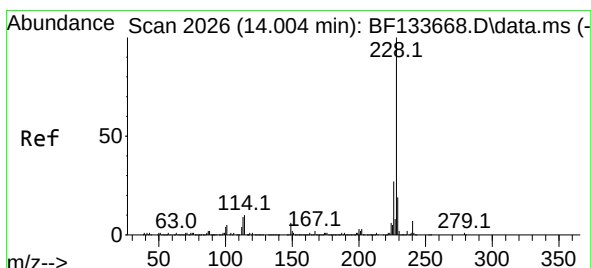
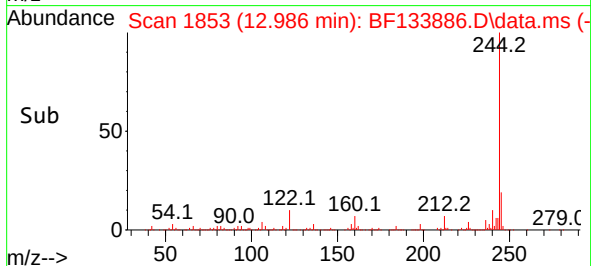
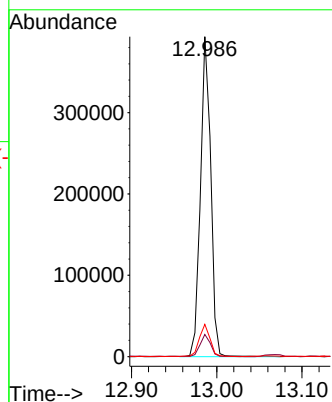
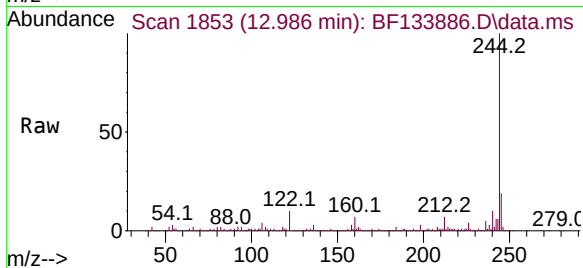
Tgt Ion:244 Resp: 329116

Ion Ratio Lower Upper

244 100

212 6.9 5.4 8.2

122 10.1 8.1 12.1



#81

Benzo(a)anthracene

Concen: 76.987 ng

RT: 14.045 min Scan# 2033

Delta R.T. 0.012 min

Lab File: BF133886.D

Acq: 21 Jun 2023 23:19

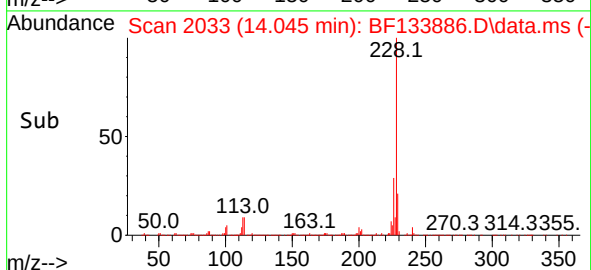
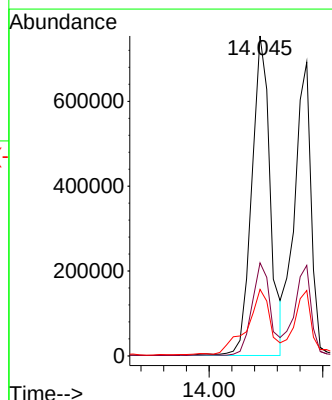
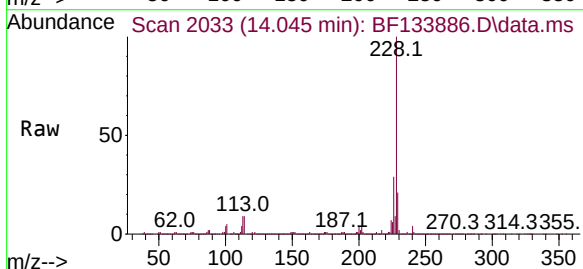
Tgt Ion:228 Resp: 849299

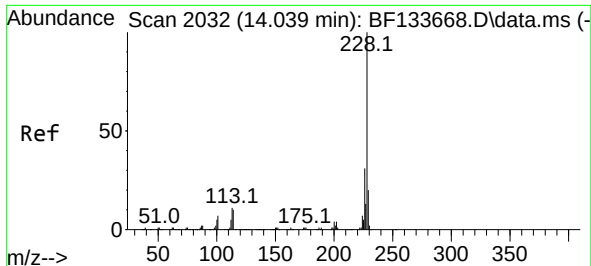
Ion Ratio Lower Upper

228 100

226 29.1 21.7 32.5

229 20.8 15.4 23.2





#83

Chrysene

Concen: 67.690 ng

RT: 14.086 min Scan# 2040

Delta R.T. 0.012 min

Lab File: BF133886.D

Acq: 21 Jun 2023 23:19

Instrument :

BNA_F

ClientSampleId :

SB-08-0-2.0

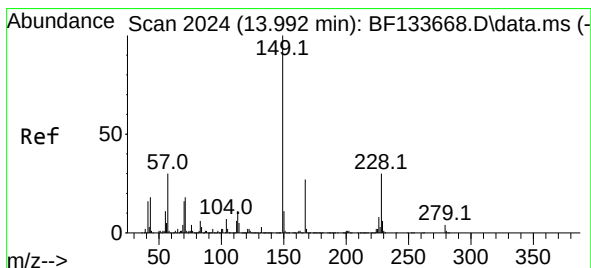
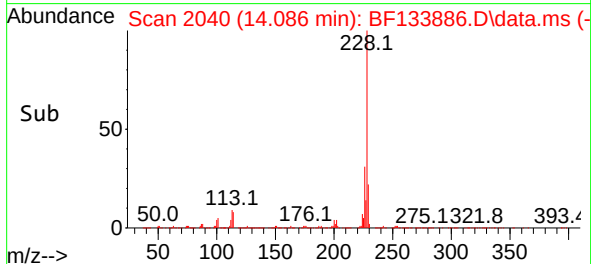
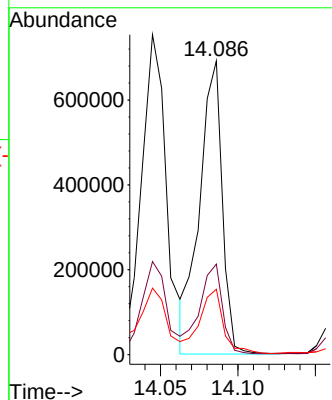
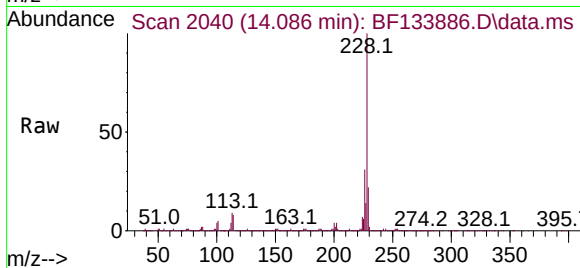
Tgt Ion:228 Resp: 706282

Ion Ratio Lower Upper

228 100

226 30.8 25.0 37.6

229 22.3 15.8 23.8



#84

Bis(2-ethylhexyl)phthalate

Concen: 2.001 ng

RT: 14.027 min Scan# 2030

Delta R.T. -0.000 min

Lab File: BF133886.D

Acq: 21 Jun 2023 23:19

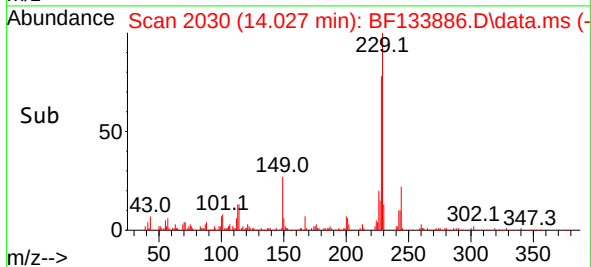
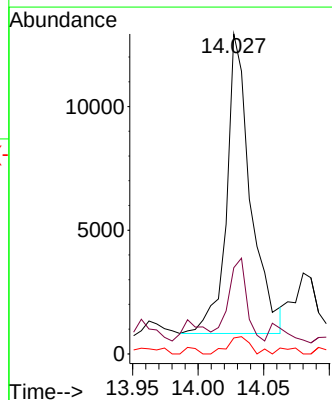
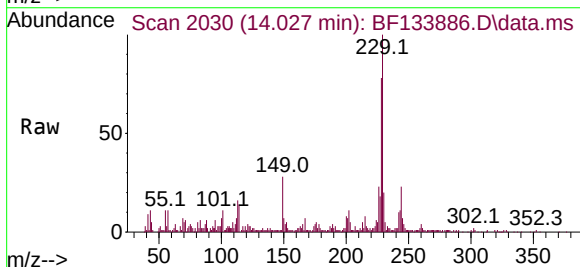
Tgt Ion:149 Resp: 15456

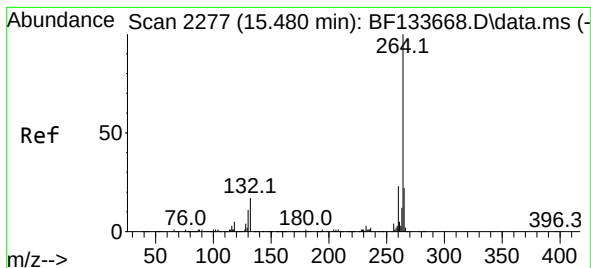
Ion Ratio Lower Upper

149 100

167 26.9 21.8 32.8

279 5.0 3.3 4.9#





#86

Perylene-d12

Concen: 20.000 ng

RT: 15.562 min Scan# 21

Delta R.T. 0.012 min

Lab File: BF133886.D

Acq: 21 Jun 2023 23:19

Instrument :

BNA_F

ClientSampleId :

SB-08-0-2.0

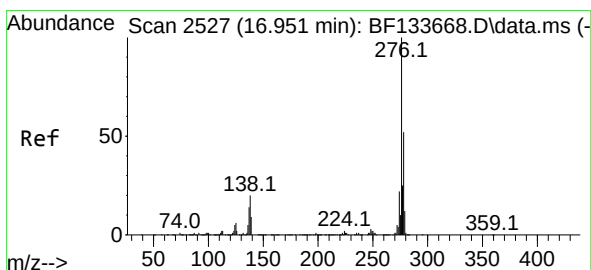
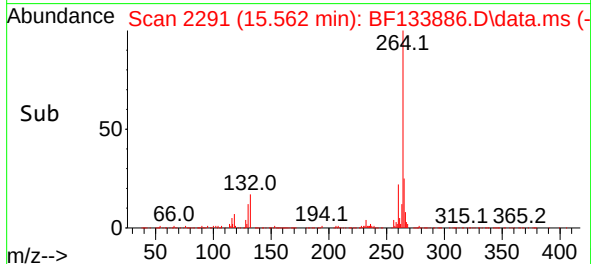
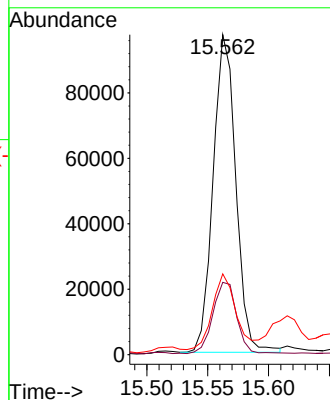
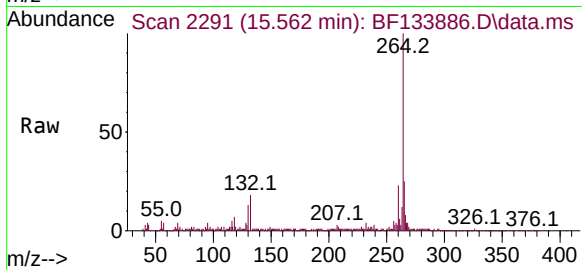
Tgt Ion:264 Resp: 126068

Ion Ratio Lower Upper

264 100

260 22.6 18.2 27.2

265 25.2 17.8 26.6



#87

Indeno(1,2,3-cd)pyrene

Concen: 32.642 ng

RT: 17.115 min Scan# 2555

Delta R.T. 0.018 min

Lab File: BF133886.D

Acq: 21 Jun 2023 23:19

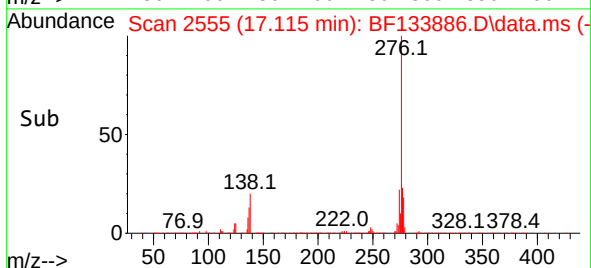
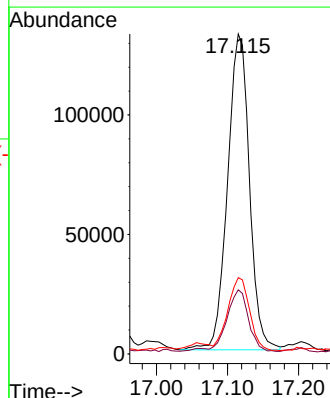
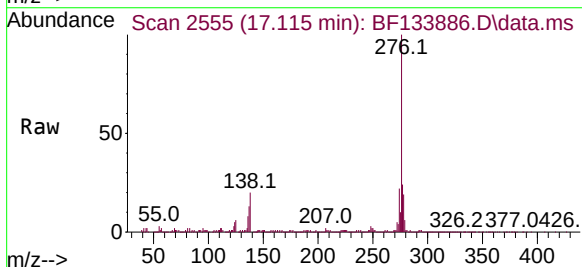
Tgt Ion:276 Resp: 283109

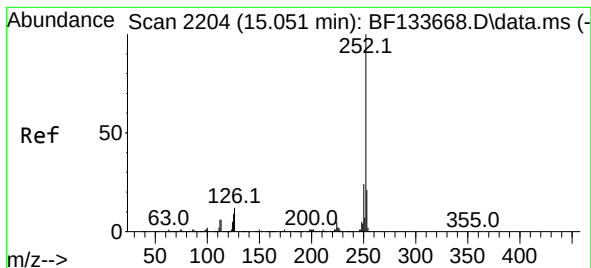
Ion Ratio Lower Upper

276 100

138 19.9 17.9 26.9

277 22.9 20.3 30.5





#88

Benzo(b)fluoranthene

Concen: 86.944 ng m

RT: 15.121 min Scan# 21

Delta R.T. 0.018 min

Lab File: BF133886.D

Acq: 21 Jun 2023 23:19

Instrument :

BNA_F

ClientSampleId :

SB-08-0-2.0

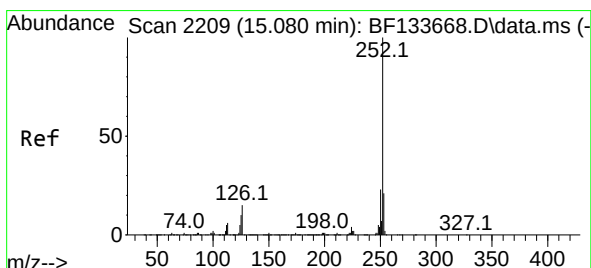
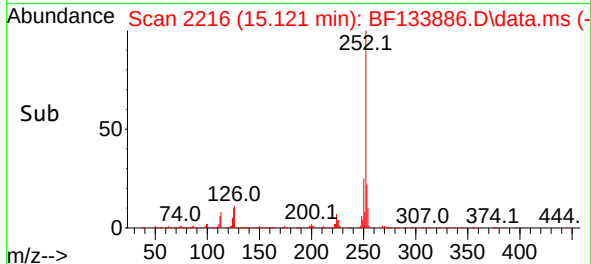
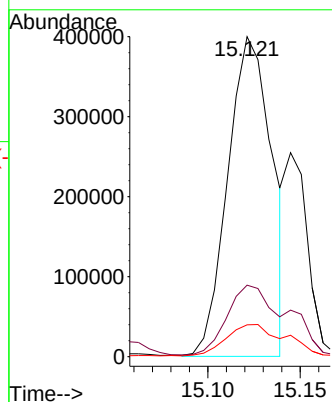
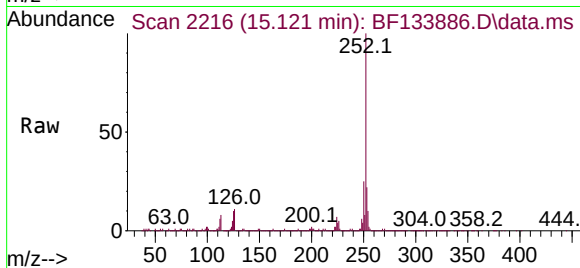
Tgt Ion:252 Resp: 665829

Ion Ratio Lower Upper

252 100

253 22.3 17.0 25.6

125 9.9 7.3 10.9



#89

Benzo(k)fluoranthene

Concen: 27.922 ng m

RT: 15.145 min Scan# 2220

Delta R.T. 0.012 min

Lab File: BF133886.D

Acq: 21 Jun 2023 23:19

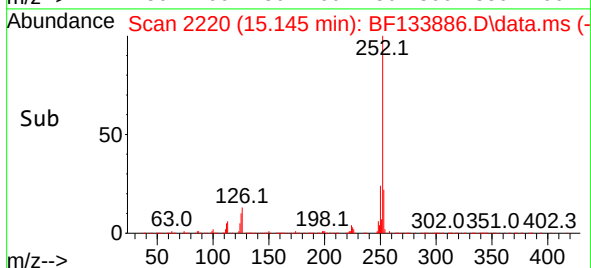
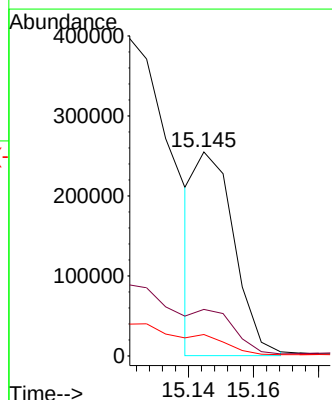
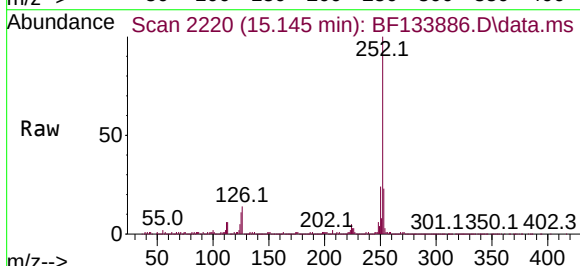
Tgt Ion:252 Resp: 208296

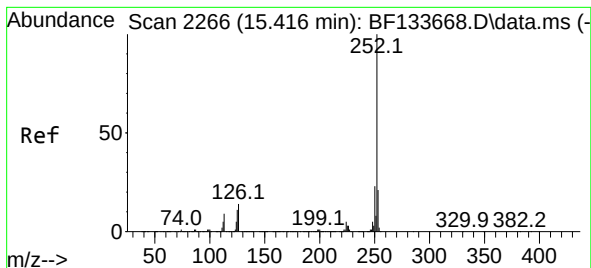
Ion Ratio Lower Upper

252 100

253 22.8 17.0 25.4

125 10.5 7.8 11.6





#90

Benzo(a)pyrene

Concen: 63.717 ng

RT: 15.504 min Scan# 21

Delta R.T. 0.018 min

Lab File: BF133886.D

Acq: 21 Jun 2023 23:19

Instrument :

BNA_F

ClientSampleId :

SB-08-0-2.0

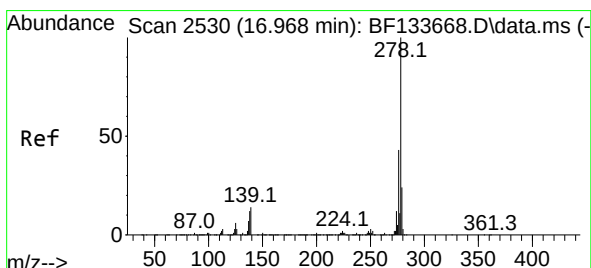
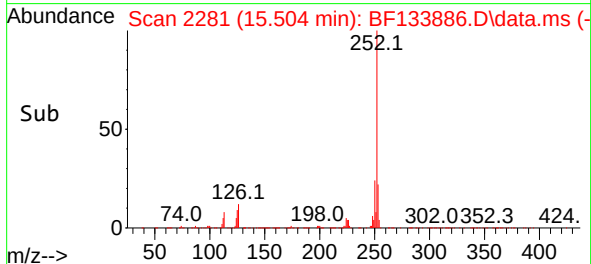
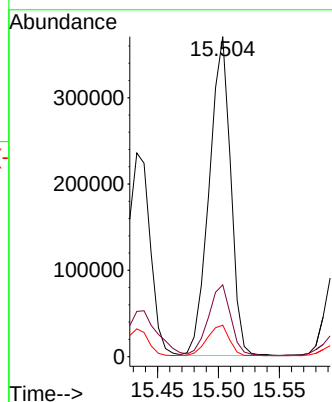
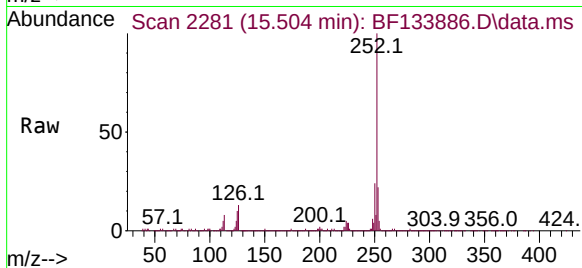
Tgt Ion:252 Resp: 452856

Ion Ratio Lower Upper

252 100

253 22.4 17.1 25.7

125 9.8 8.6 13.0



#91

Dibenzo(a,h)anthracene

Concen: 10.056 ng

RT: 17.127 min Scan# 2557

Delta R.T. 0.006 min

Lab File: BF133886.D

Acq: 21 Jun 2023 23:19

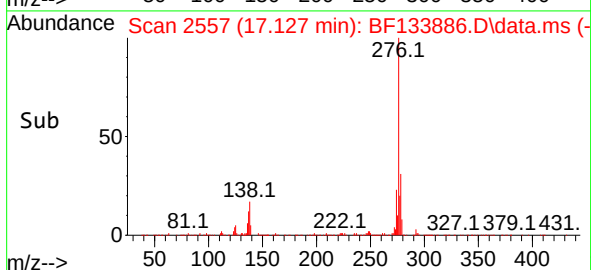
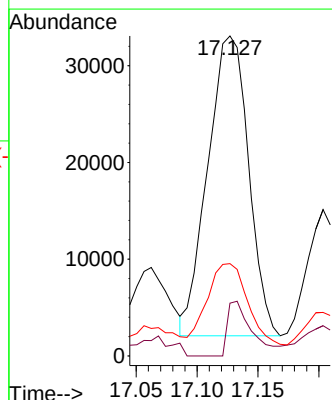
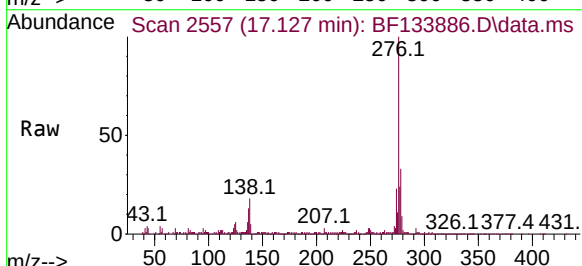
Tgt Ion:278 Resp: 72205

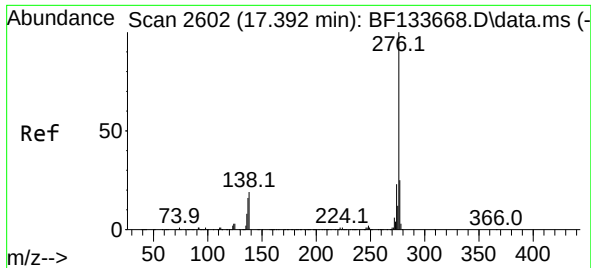
Ion Ratio Lower Upper

278 100

139 16.5 11.4 17.2

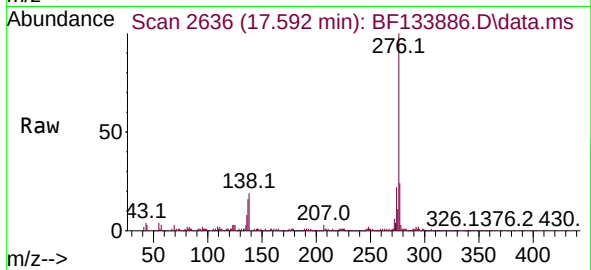
279 28.8 19.0 28.4#





#92
 Benzo(g,h,i)perylene
 Concen: 36.285 ng
 RT: 17.592 min Scan# 2636
 Delta R.T. 0.018 min
 Lab File: BF133886.D
 Acq: 21 Jun 2023 23:19

Instrument :
 BNA_F
 ClientSampleId :
 SB-08-0-2.0



Tgt Ion:	276	Resp:	258317
Ion	Ratio	Lower	Upper
276	100		
277	23.5	19.8	29.8
138	19.0	15.0	22.4

