

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF103123\
 Data File : BF136054.D
 Acq On : 31 Oct 2023 16:33
 Operator : CG\JU
 Sample : 04805-04 2X
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 H-1(0-5)

Quant Time: Oct 31 16:59:24 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)

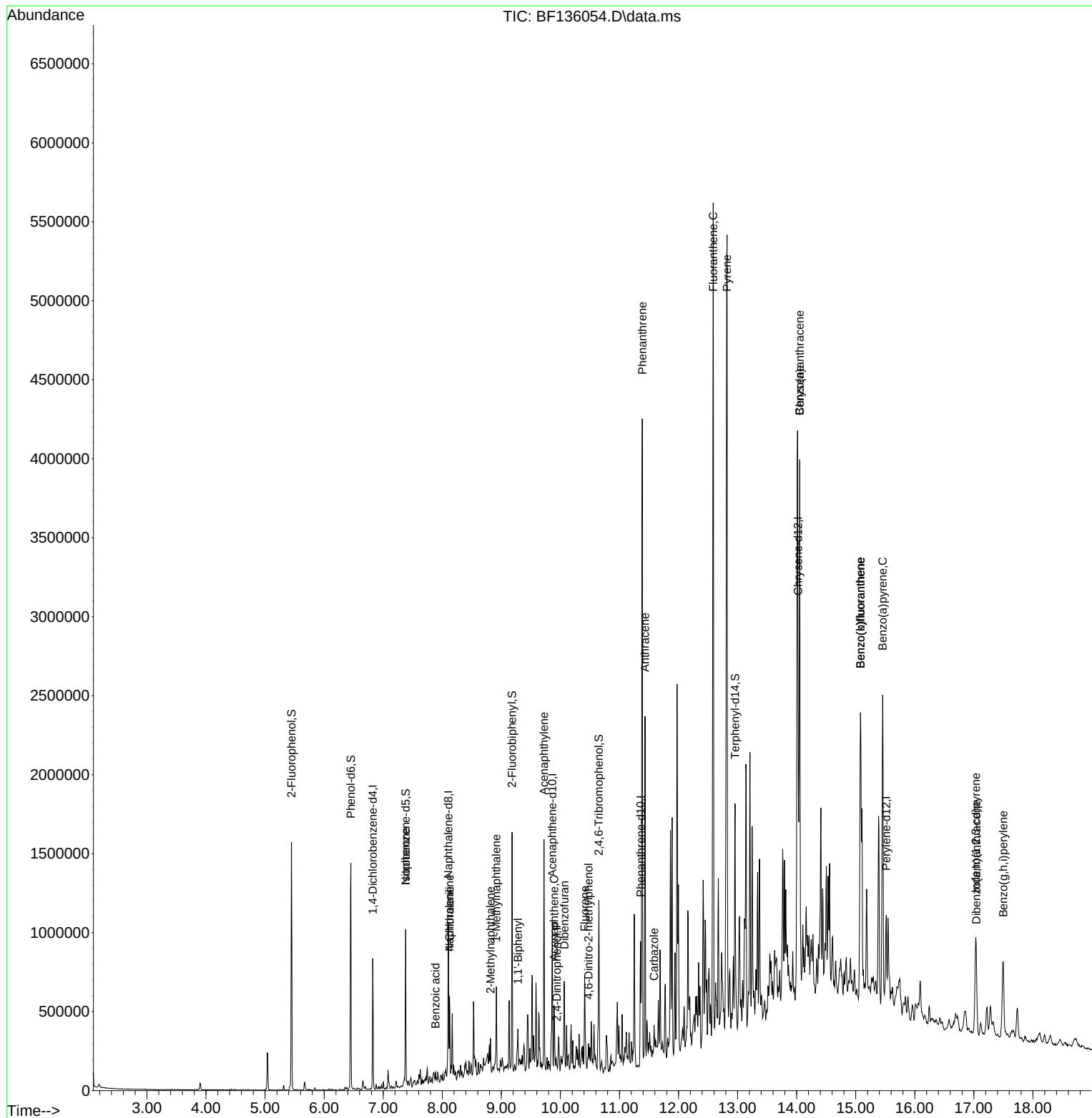
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.822	152	113481	20.000	ng	0.00
21) Naphthalene-d8	8.104	136	385000	20.000	ng	0.00
39) Acenaphthene-d10	9.863	164	167347	20.000	ng	0.00
64) Phenanthrene-d10	11.357	188	305426	20.000	ng	0.00
76) Chrysene-d12	14.022	240	270421	20.000	ng	# 0.00
86) Perylene-d12	15.516	264	242271	20.000	ng	# 0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.446	112	400409	55.446	ng	0.00
7) Phenol-d6	6.451	99	465944	51.785	ng	0.00
23) Nitrobenzene-d5	7.381	82	251206	39.333	ng	-0.01
42) 2,4,6-Tribromophenol	10.651	330	97742	54.720	ng	0.00
45) 2-Fluorobiphenyl	9.181	172	378129	36.020	ng	0.00
79) Terphenyl-d14	12.957	244	442113	25.407	ng	0.00
Target Compounds						Qvalue
25) Isophorone	7.381	82	248681	20.625	ng	# 64
31) Naphthalene	8.122	128	197938	10.662	ng	100
32) Benzoic acid	7.887	122	1398	5.394	ng	# 34
33) 4-Chloroaniline	8.122	127	26909	3.310	ng	# 31
37) 2-Methylnaphthalene	8.816	142	47201	3.792	ng	96
38) 1-Methylnaphthalene	8.916	142	112015	9.669	ng	99
46) 1,1'-Biphenyl	9.281	154	52020	4.078	ng	99
49) Acenaphthylene	9.722	152	456746	31.132	ng	98
52) Acenaphthene	9.892	154	74680	8.007	ng	98
54) 2,4-Dinitrophenol	9.939	184	58	8.018	ng	# 1
55) Dibenzofuran	10.069	168	117747	8.658	ng	# 95
58) Fluorene	10.410	166	157784	15.496	ng	96
65) 4,6-Dinitro-2-methylph...	10.475	198	384	5.992	ng	# 1
71) Phenanthrene	11.386	178	1595223	103.732	ng	100
72) Anthracene	11.433	178	799252	50.720	ng	100
73) Carbazole	11.586	167	57027	4.165	ng	98
75) Fluoranthene	12.586	202	2284063	144.577	ng	99
78) Pyrene	12.822	202	2579687	108.201	ng	99
81) Benzo(a)anthracene	14.051	228	1335655	74.607	ng	94
83) Chrysene	14.051	228	1335655	75.756	ng	97
87) Indeno(1,2,3-cd)pyrene	17.033	276	438870	27.717	ng	95
88) Benzo(b)fluoranthene	15.080	252	1686105	117.617	ng	97
89) Benzo(k)fluoranthene	15.080	252	1686105	118.871	ng	97
90) Benzo(a)pyrene	15.457	252	1034305	77.651	ng	97
91) Dibenzo(a,h)anthracene	17.045	278	127833	9.856	ng	94
92) Benzo(g,h,i)perylene	17.498	276	424303	29.896	ng	99

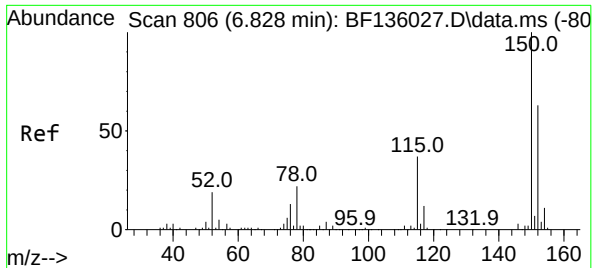
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF103123\
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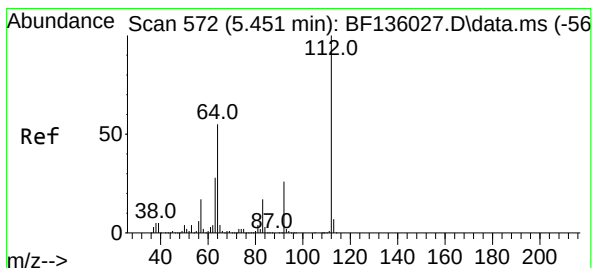
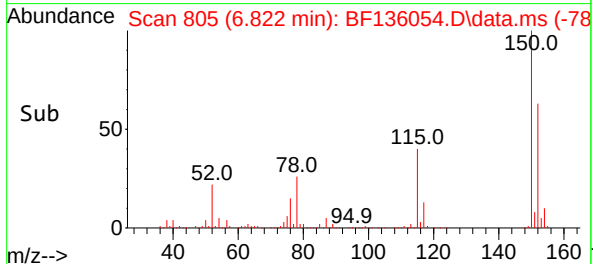
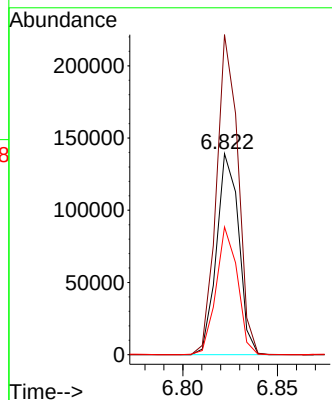
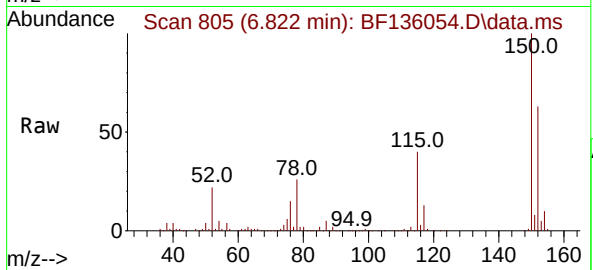




#1
 1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 6.822 min Scan# 806
 Delta R.T. -0.006 min
 Lab File: BF136054.D
 Acq: 31 Oct 2023 16:33

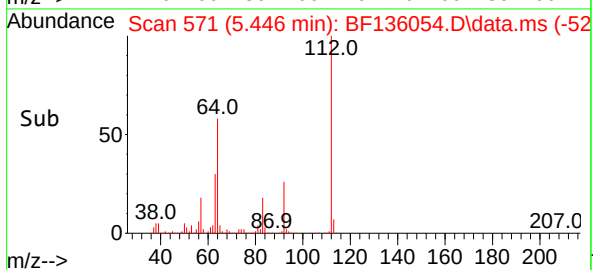
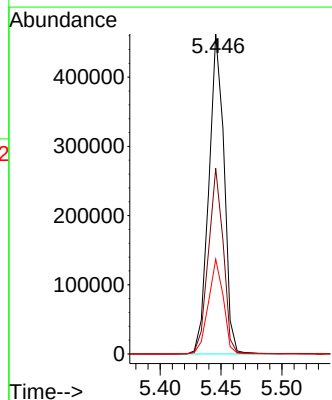
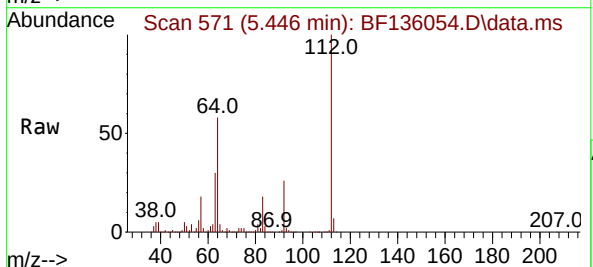
Instrument :
 BNA_F
 ClientSampleId :
 H-1(0-5)

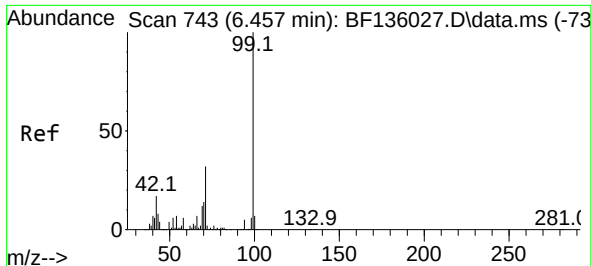
Tgt Ion:152 Resp: 113481
 Ion Ratio Lower Upper
 152 100
 150 159.2 126.4 189.6
 115 63.6 47.0 70.4



#5
 2-Fluorophenol
 Concen: 55.446 ng
 RT: 5.446 min Scan# 571
 Delta R.T. -0.006 min
 Lab File: BF136054.D
 Acq: 31 Oct 2023 16:33

Tgt Ion:112 Resp: 400409
 Ion Ratio Lower Upper
 112 100
 64 58.0 43.9 65.9
 63 29.6 22.4 33.6

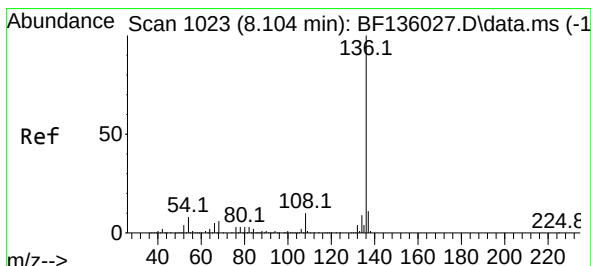
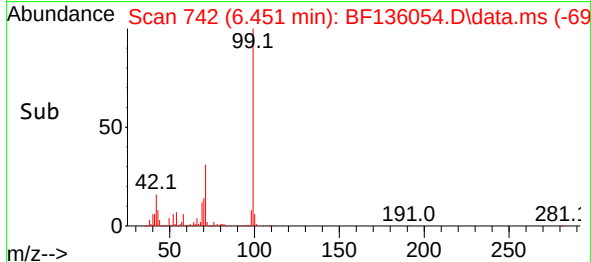
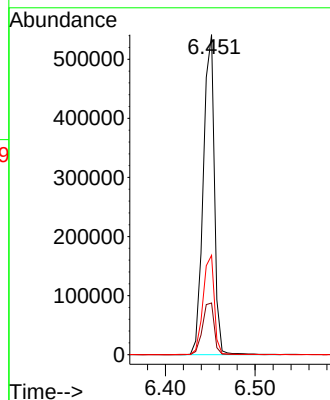
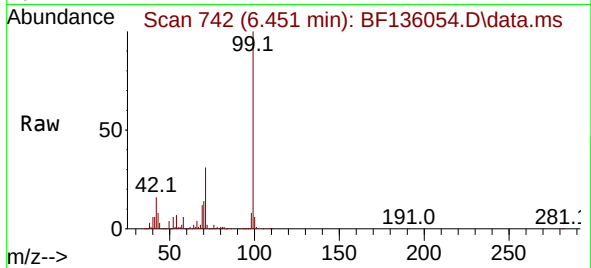




#7
Phenol-d6
Concen: 51.785 ng
RT: 6.451 min Scan# 743
Delta R.T. -0.006 min
Lab File: BF136054.D
Acq: 31 Oct 2023 16:33

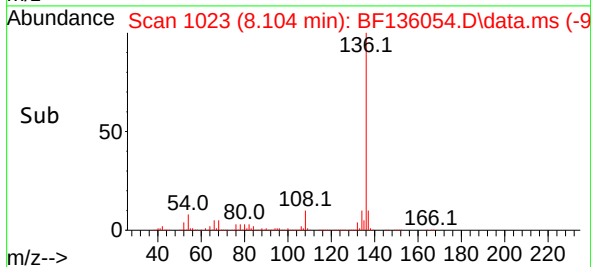
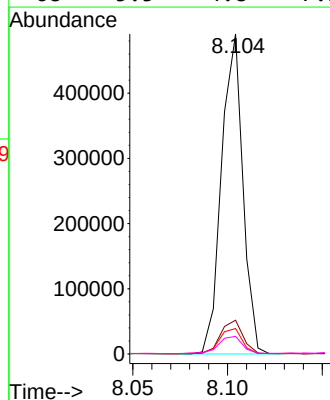
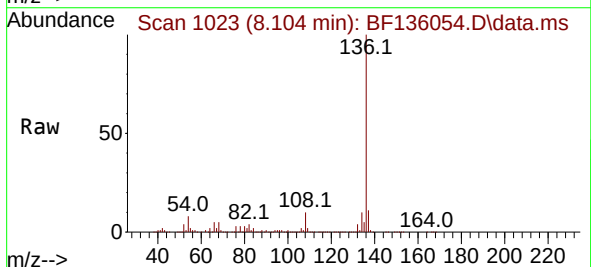
Instrument :
BNA_F
ClientSampleId :
H-1(0-5)

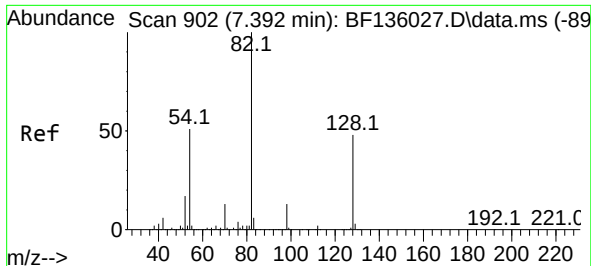
Tgt Ion: 99 Resp: 465944
Ion Ratio Lower Upper
99 100
42 16.2 13.7 20.5
71 31.0 25.9 38.9



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.104 min Scan# 1023
Delta R.T. 0.000 min
Lab File: BF136054.D
Acq: 31 Oct 2023 16:33

Tgt Ion: 136 Resp: 385000
Ion Ratio Lower Upper
136 100
137 10.5 8.6 13.0
54 8.0 6.6 9.8
68 5.5 4.8 7.2





#23

Nitrobenzene-d5

Concen: 39.333 ng

RT: 7.381 min Scan# 900

Delta R.T. -0.012 min

Lab File: BF136054.D

Acq: 31 Oct 2023 16:33

Instrument :

BNA_F

ClientSampleId :

H-1(0-5)

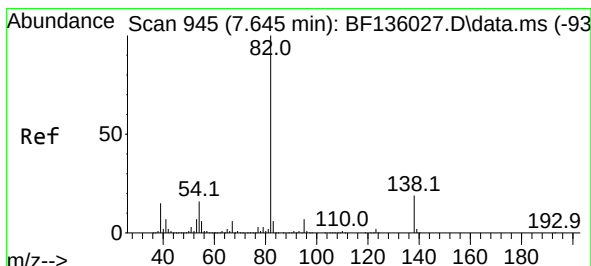
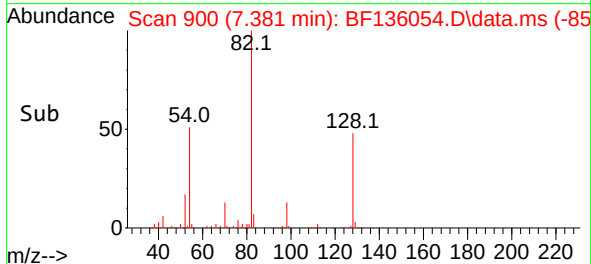
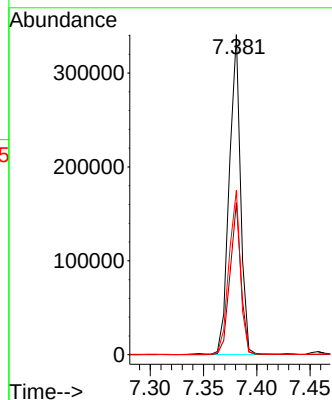
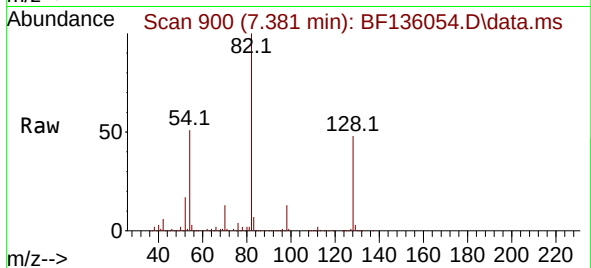
Tgt Ion: 82 Resp: 251206

Ion Ratio Lower Upper

82 100

128 47.5 38.6 57.8

54 51.4 40.8 61.2



#25

Isophorone

Concen: 20.625 ng

RT: 7.381 min Scan# 900

Delta R.T. -0.264 min

Lab File: BF136054.D

Acq: 31 Oct 2023 16:33

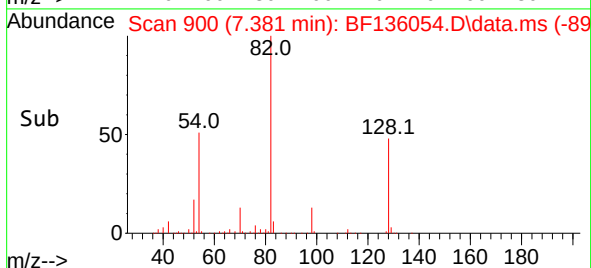
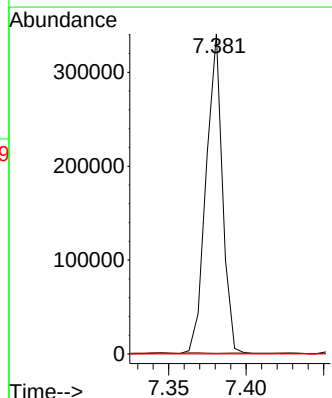
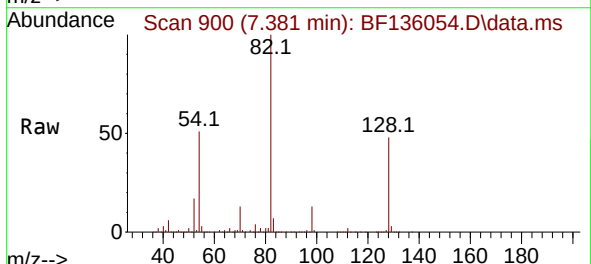
Tgt Ion: 82 Resp: 248681

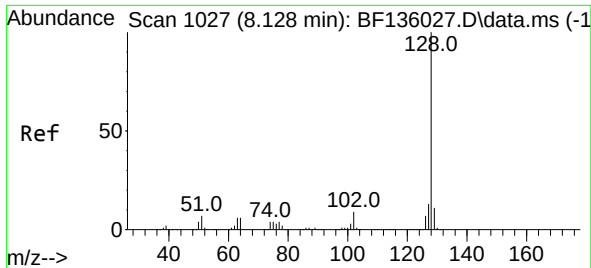
Ion Ratio Lower Upper

82 100

95 0.2 5.9 8.9#

138 0.0 15.3 22.9#

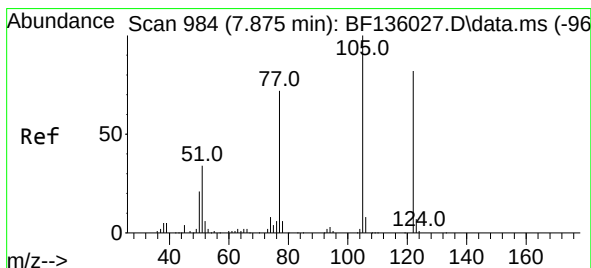
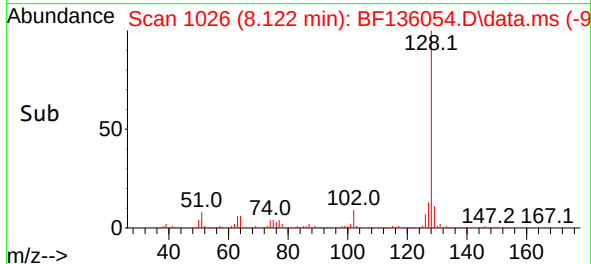
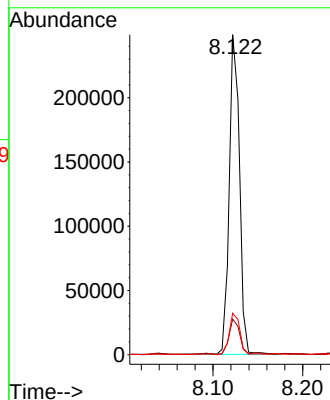
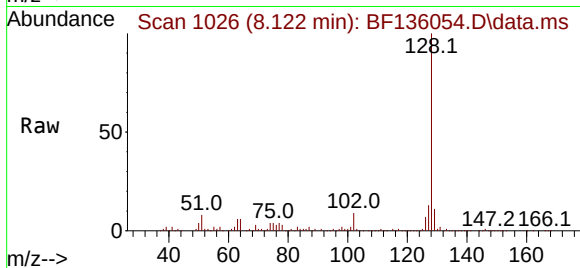




#31
Naphthalene
Concen: 10.662 ng
RT: 8.122 min Scan# 1027
Delta R.T. -0.006 min
Lab File: BF136054.D
Acq: 31 Oct 2023 16:33

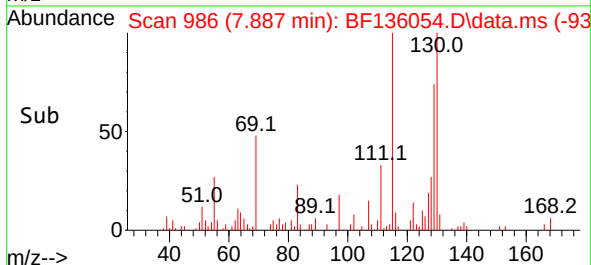
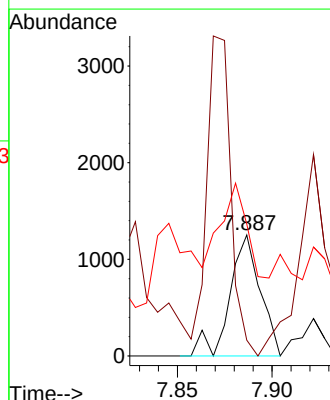
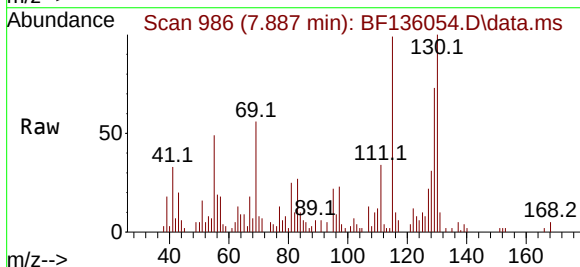
Instrument :
BNA_F
ClientSampleId :
H-1(0-5)

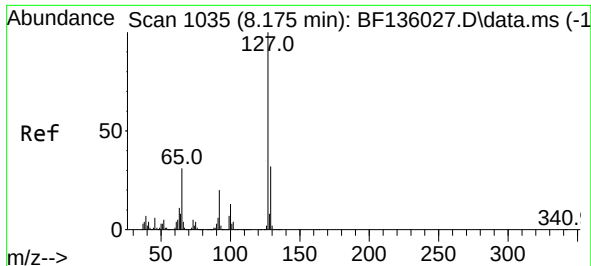
Tgt Ion:128 Resp: 197938
Ion Ratio Lower Upper
128 100
129 11.2 8.9 13.3
127 13.0 10.5 15.7



#32
Benzoic acid
Concen: 5.394 ng
RT: 7.887 min Scan# 986
Delta R.T. 0.012 min
Lab File: BF136054.D
Acq: 31 Oct 2023 16:33

Tgt Ion:122 Resp: 1398
Ion Ratio Lower Upper
122 100
105 13.1 99.5 139.5#
77 109.2 66.8 106.8#

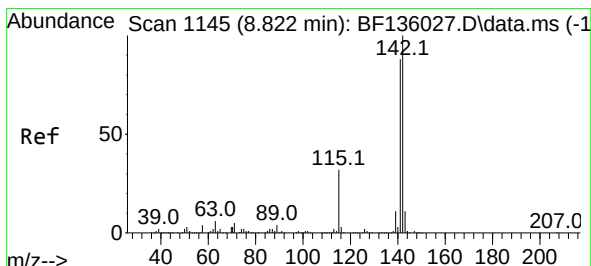
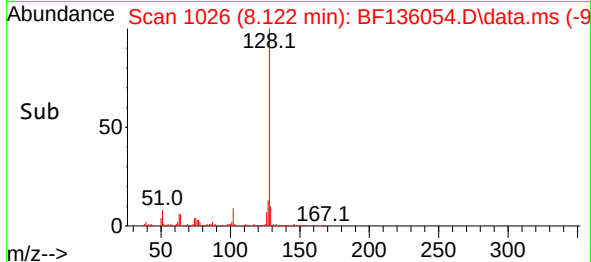
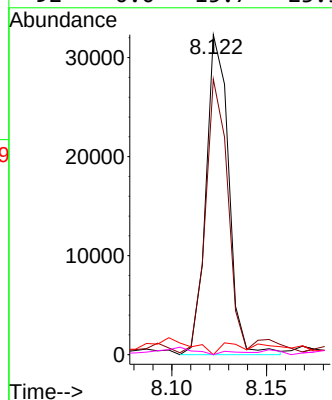
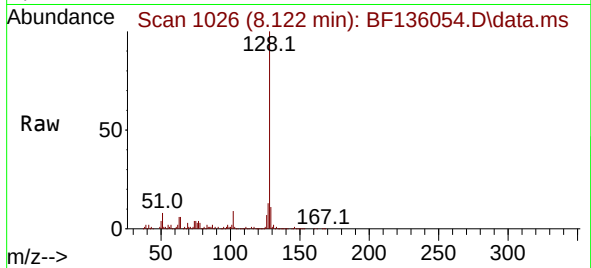




#33
4-Chloroaniline
Concen: 3.310 ng
RT: 8.122 min Scan# 1026
Delta R.T. -0.053 min
Lab File: BF136054.D
Acq: 31 Oct 2023 16:33

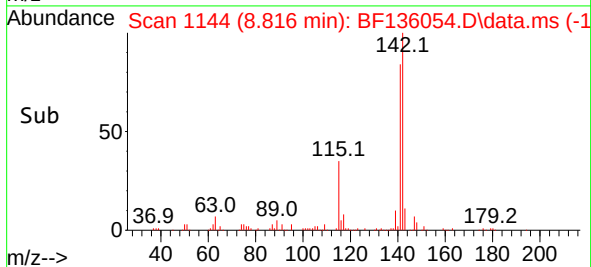
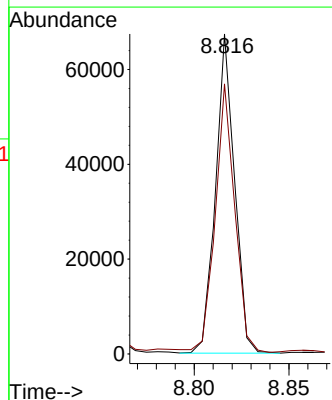
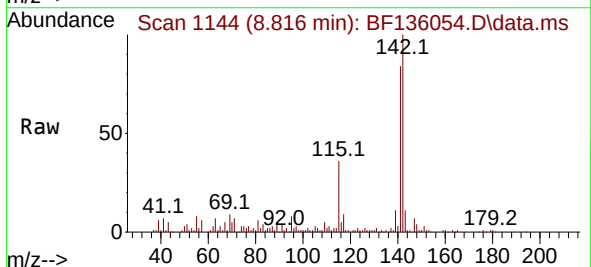
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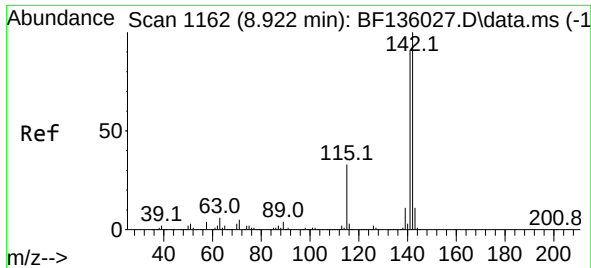
Tgt Ion:127	Resp:	26909
Ion Ratio	Lower	Upper
127	100	
129	86.1	25.9 38.9#
65	0.0	24.6 37.0#
92	0.0	15.7 23.5#



#37
2-Methylnaphthalene
Concen: 3.792 ng
RT: 8.816 min Scan# 1144
Delta R.T. -0.006 min
Lab File: BF136054.D
Acq: 31 Oct 2023 16:33

Tgt Ion:142	Resp:	47201
Ion Ratio	Lower	Upper
142	100	
141	84.4	70.4 105.6

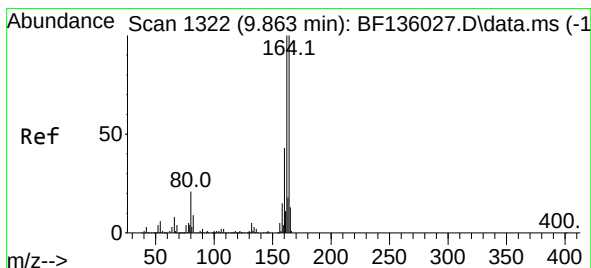
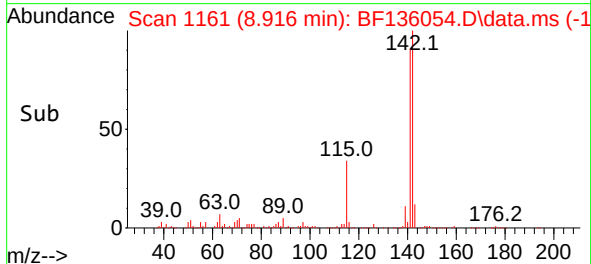
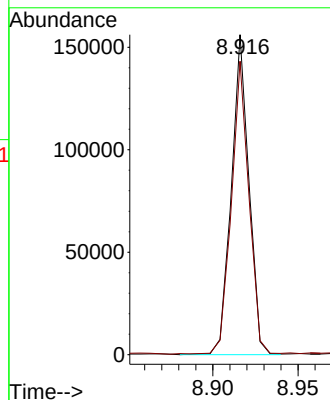
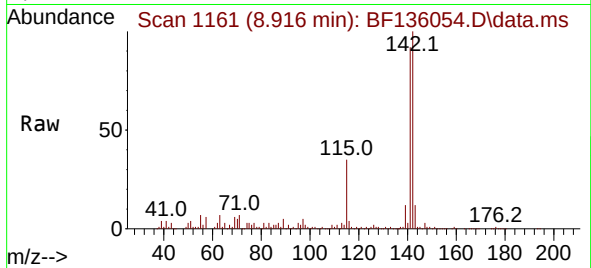




#38
1-Methylnaphthalene
Concen: 9.669 ng
RT: 8.916 min Scan# 1161
Delta R.T. -0.006 min
Lab File: BF136054.D
Acq: 31 Oct 2023 16:33

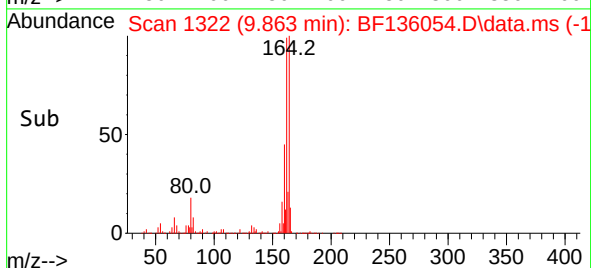
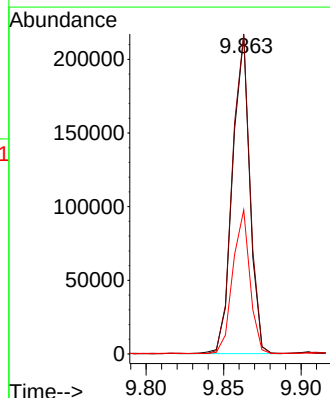
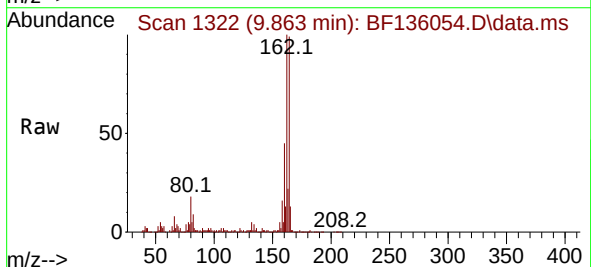
Instrument :
BNA_F
ClientSampleId :
H-1(0-5)

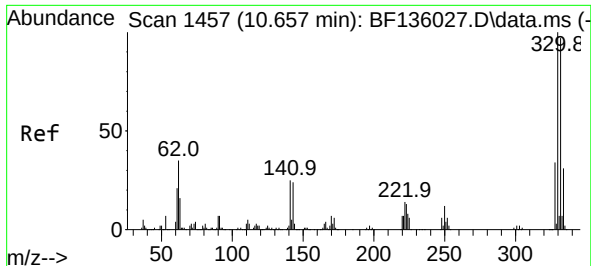
Tgt Ion:142 Resp: 112015
Ion Ratio Lower Upper
142 100
141 91.7 72.6 109.0



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.863 min Scan# 1322
Delta R.T. -0.000 min
Lab File: BF136054.D
Acq: 31 Oct 2023 16:33

Tgt Ion:164 Resp: 167347
Ion Ratio Lower Upper
164 100
162 100.5 80.1 120.1
160 45.2 34.8 52.2





#42

2,4,6-Tribromophenol

Concen: 54.720 ng

RT: 10.651 min Scan# 1456

Delta R.T. -0.006 min

Lab File: BF136054.D

Acq: 31 Oct 2023 16:33

Instrument :

BNA_F

ClientSampleId :

H-1(0-5)

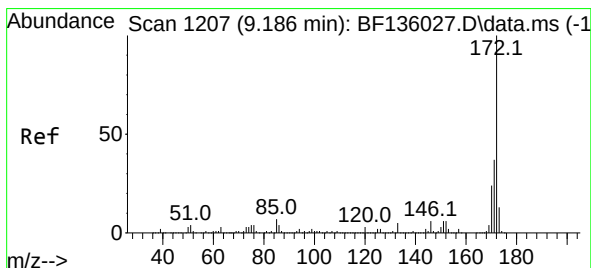
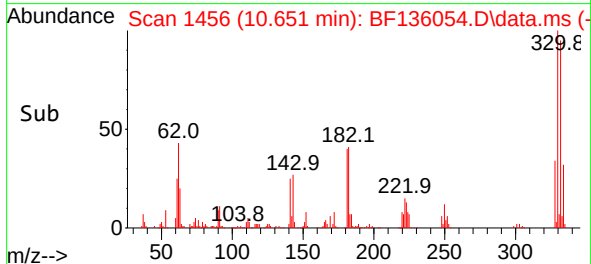
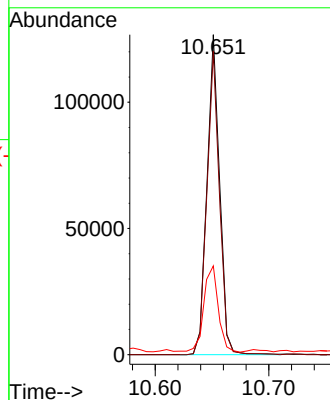
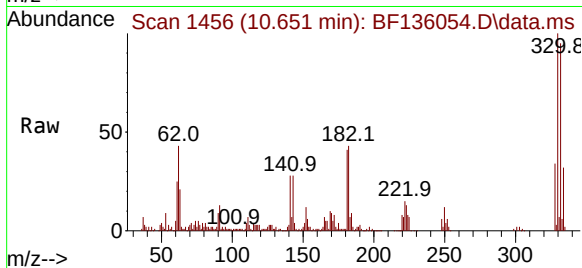
Tgt Ion:330 Resp: 97742

Ion Ratio Lower Upper

330 100

332 94.1 76.9 115.3

141 30.9 23.2 34.8



#45

2-Fluorobiphenyl

Concen: 36.020 ng

RT: 9.181 min Scan# 1206

Delta R.T. -0.006 min

Lab File: BF136054.D

Acq: 31 Oct 2023 16:33

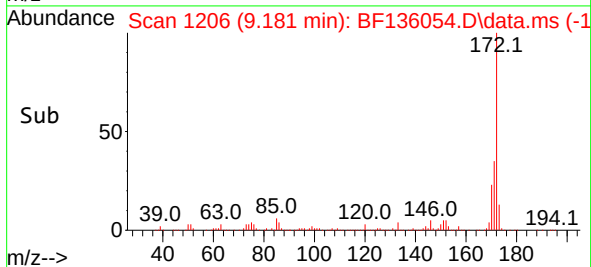
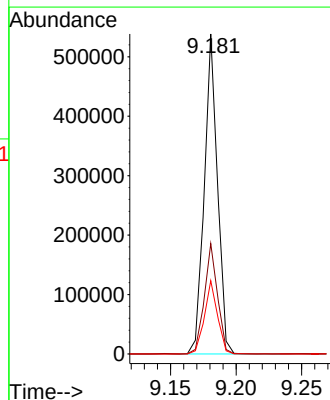
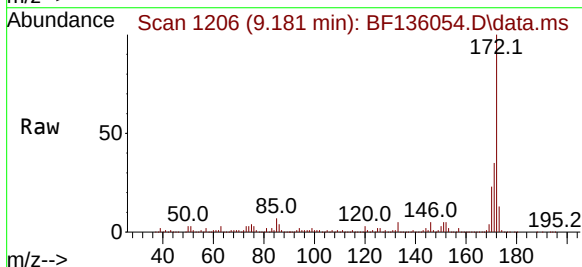
Tgt Ion:172 Resp: 378129

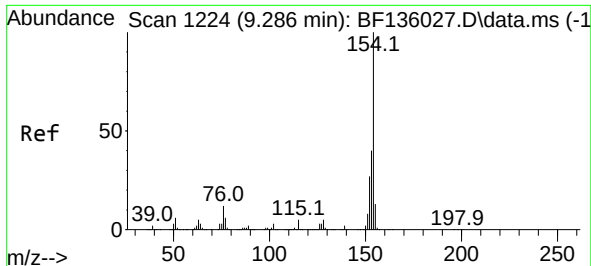
Ion Ratio Lower Upper

172 100

171 34.5 29.4 44.0

170 22.9 19.3 28.9

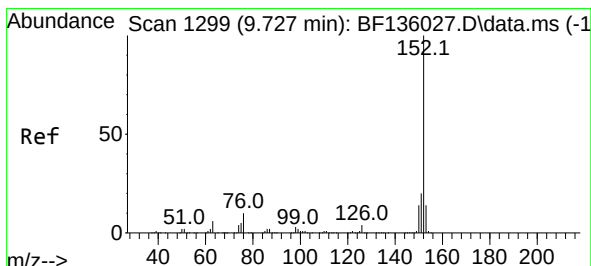
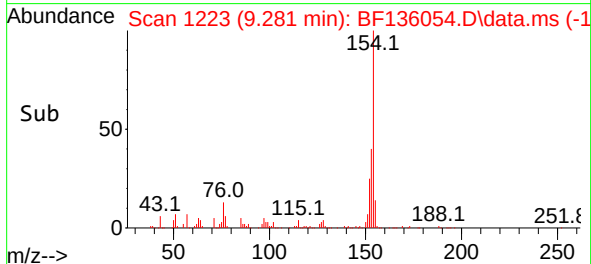
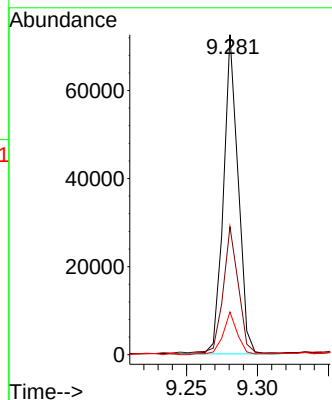
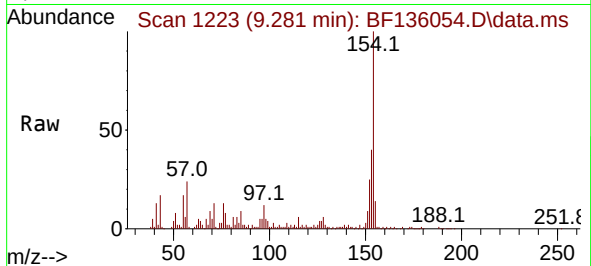




#46
1,1'-Biphenyl
Concen: 4.078 ng
RT: 9.281 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF136054.D
Acq: 31 Oct 2023 16:33

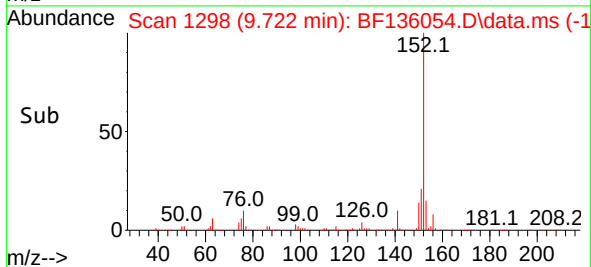
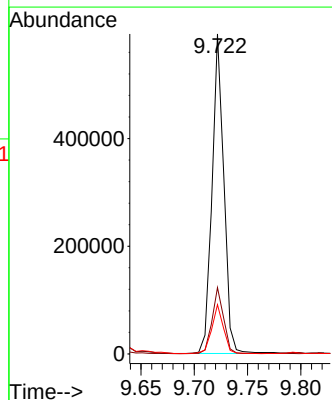
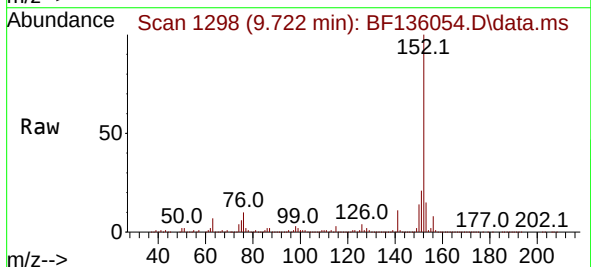
Instrument :
BNA_F
ClientSampleId :
H-1(0-5)

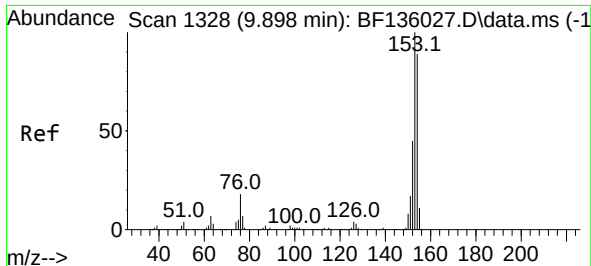
Tgt Ion:154 Resp: 52020
Ion Ratio Lower Upper
154 100
153 40.0 20.1 60.1
76 13.3 0.0 32.5



#49
Acenaphthylene
Concen: 31.132 ng
RT: 9.722 min Scan# 1298
Delta R.T. -0.006 min
Lab File: BF136054.D
Acq: 31 Oct 2023 16:33

Tgt Ion:152 Resp: 456746
Ion Ratio Lower Upper
152 100
151 20.8 16.1 24.1
153 15.4 11.4 17.2

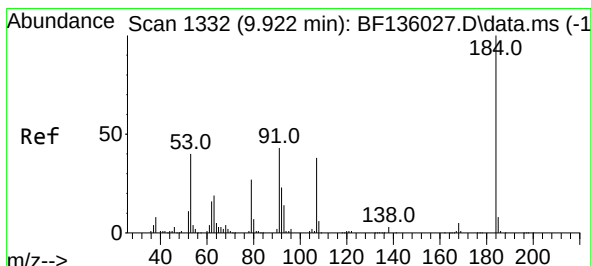
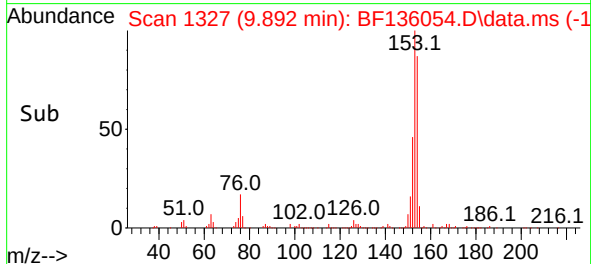
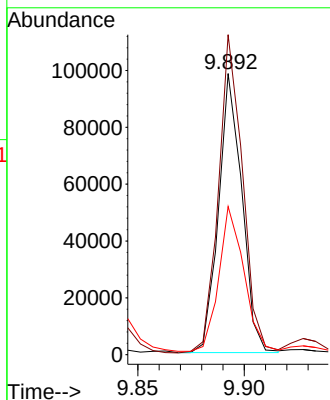
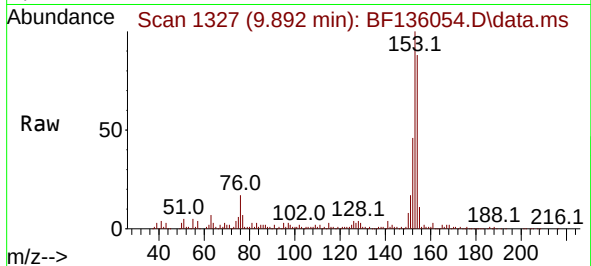




#52
Acenaphthene
Concen: 8.007 ng
RT: 9.892 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF136054.D
Acq: 31 Oct 2023 16:33

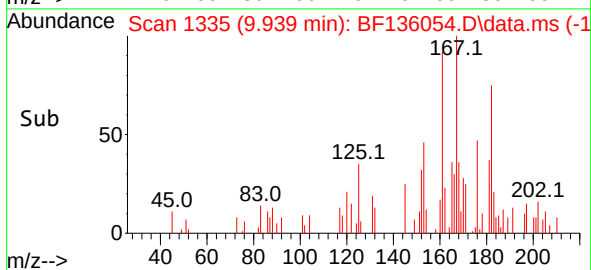
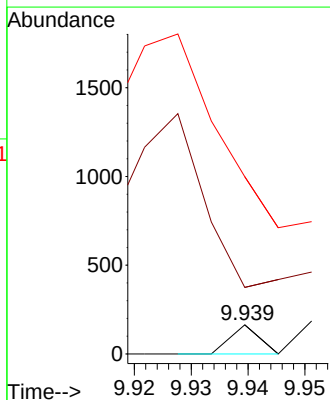
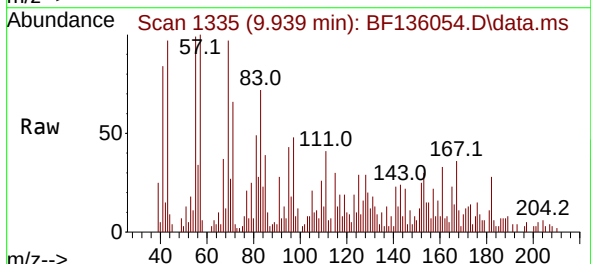
Instrument :
BNA_F
ClientSampleId :
H-1(0-5)

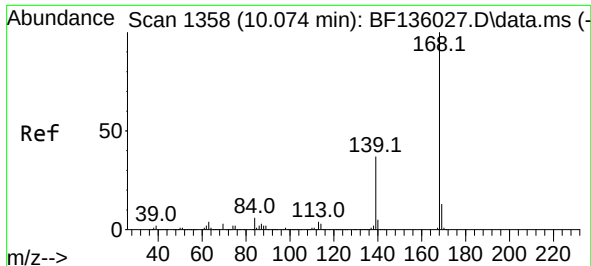
Tgt Ion:154 Resp: 74680
Ion Ratio Lower Upper
154 100
153 113.8 89.9 134.9
152 52.7 40.2 60.2



#54
2,4-Dinitrophenol
Concen: 8.018 ng
RT: 9.939 min Scan# 1335
Delta R.T. 0.017 min
Lab File: BF136054.D
Acq: 31 Oct 2023 16:33

Tgt Ion:184 Resp: 58
Ion Ratio Lower Upper
184 100
63 228.7 43.7 65.5#
154 609.1 51.2 76.8#

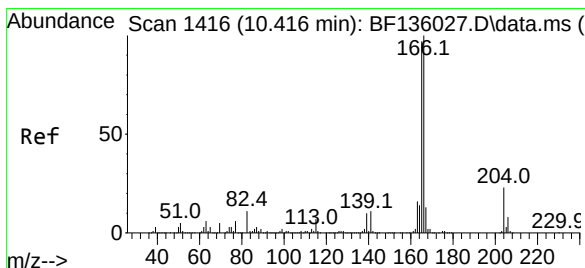
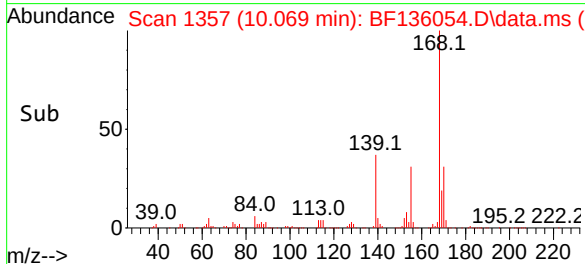
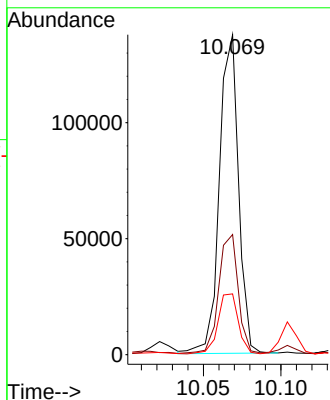
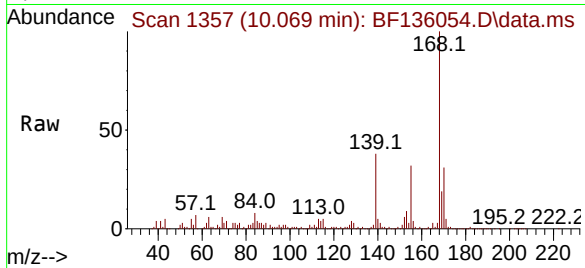




#55
Dibenzenofuran
Concen: 8.658 ng
RT: 10.069 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF136054.D
Acq: 31 Oct 2023 16:33

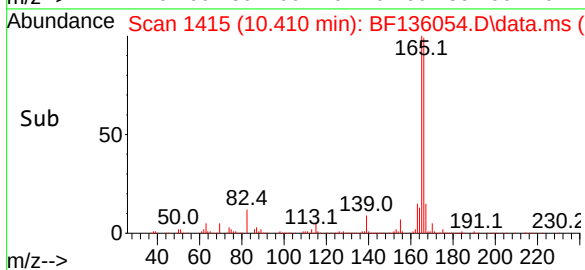
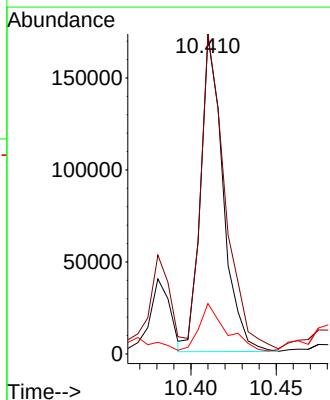
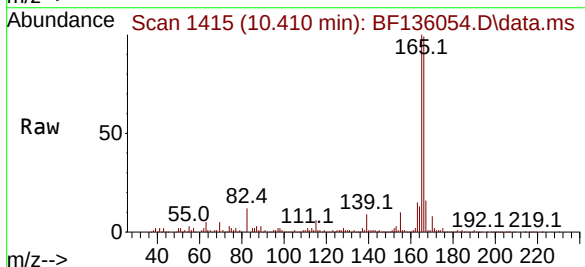
Instrument :
BNA_F
ClientSampleId :
H-1(0-5)

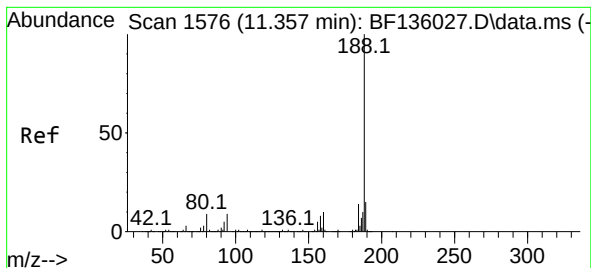
Tgt Ion:168 Resp: 117747
Ion Ratio Lower Upper
168 100
139 37.5 29.4 44.0
169 19.0 10.5 15.7#



#58
Fluorene
Concen: 15.496 ng
RT: 10.410 min Scan# 1415
Delta R.T. -0.006 min
Lab File: BF136054.D
Acq: 31 Oct 2023 16:33

Tgt Ion:166 Resp: 157784
Ion Ratio Lower Upper
166 100
165 100.9 77.7 116.5
167 15.9 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: BF136054.D

Acq: 31 Oct 2023 16:33

Instrument :

BNA_F

ClientSampleId :

H-1(0-5)

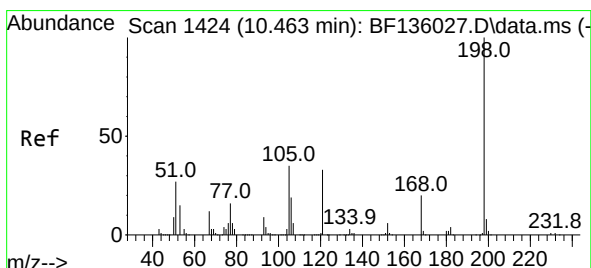
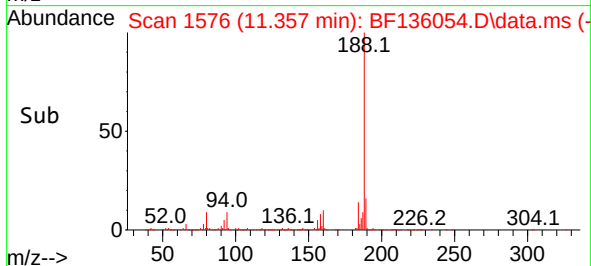
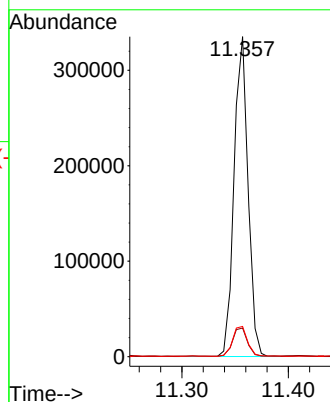
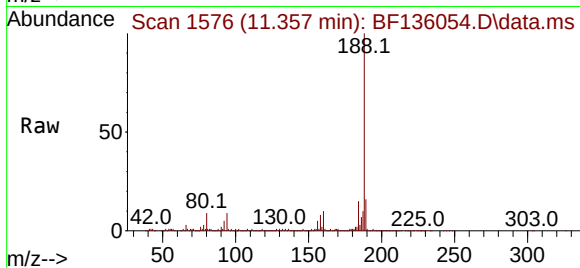
Tgt Ion:188 Resp: 305426

Ion Ratio Lower Upper

188 100

94 9.0 7.2 10.8

80 9.5 7.4 11.0



#65

4,6-Dinitro-2-methylphenol

Concen: 5.992 ng

RT: 10.475 min Scan# 1426

Delta R.T. 0.012 min

Lab File: BF136054.D

Acq: 31 Oct 2023 16:33

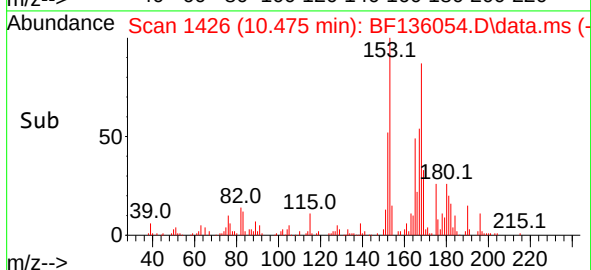
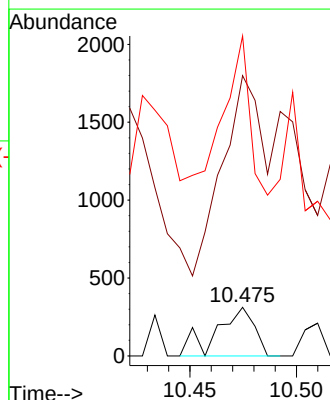
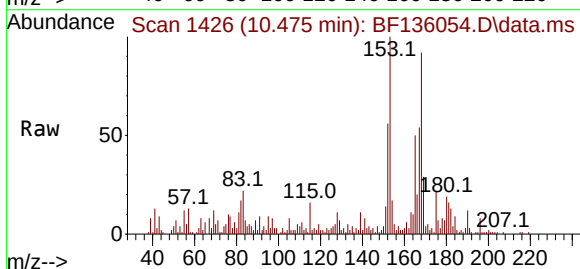
Tgt Ion:198 Resp: 384

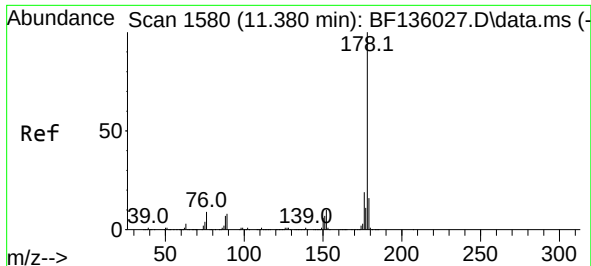
Ion Ratio Lower Upper

198 100

51 576.6 12.9 52.9#

105 658.3 16.0 56.0#

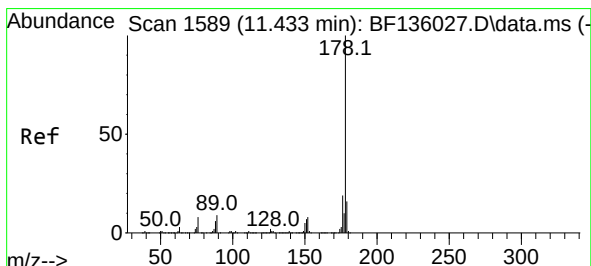
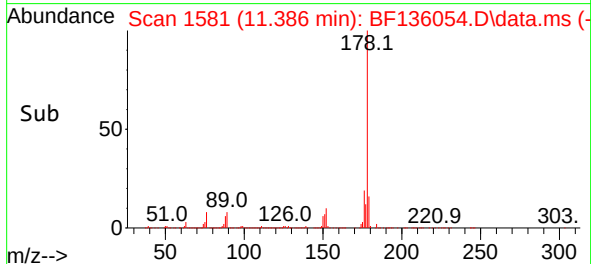
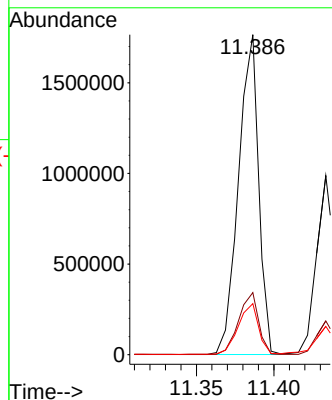
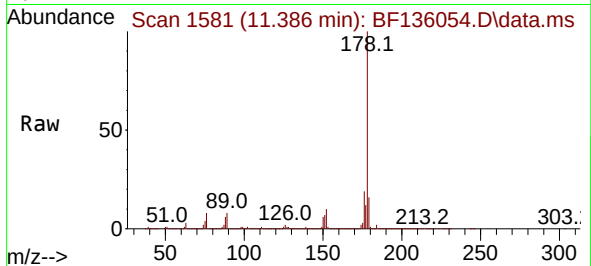




#71
Phenanthrene
Concen: 103.732 ng
RT: 11.386 min Scan# 1580
Delta R.T. 0.006 min
Lab File: BF136054.D
Acq: 31 Oct 2023 16:33

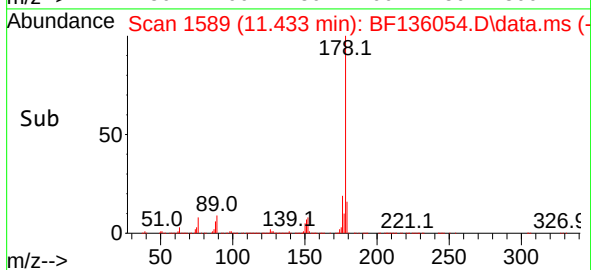
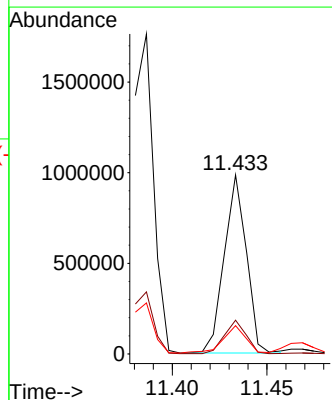
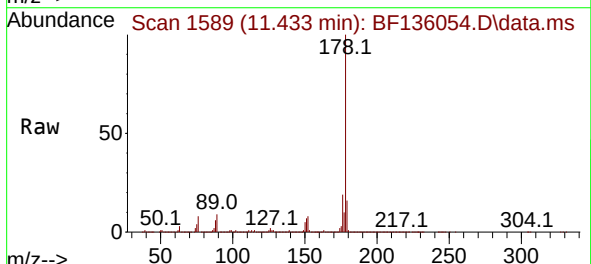
Instrument :
BNA_F
ClientSampleId :
H-1(0-5)

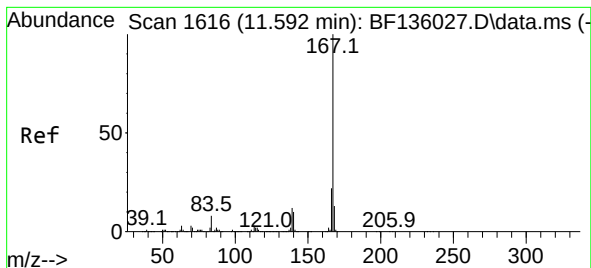
Tgt Ion:178 Resp: 1595223
Ion Ratio Lower Upper
178 100
176 19.4 15.5 23.3
179 15.9 12.9 19.3



#72
Anthracene
Concen: 50.720 ng
RT: 11.433 min Scan# 1589
Delta R.T. 0.000 min
Lab File: BF136054.D
Acq: 31 Oct 2023 16:33

Tgt Ion:178 Resp: 799252
Ion Ratio Lower Upper
178 100
176 18.8 15.0 22.4
179 15.9 12.6 18.8





#73

Carbazole

Concen: 4.165 ng

RT: 11.586 min Scan# 1

Delta R.T. -0.006 min

Lab File: BF136054.D

Acq: 31 Oct 2023 16:33

Instrument :

BNA_F

ClientSampleId :

H-1(0-5)

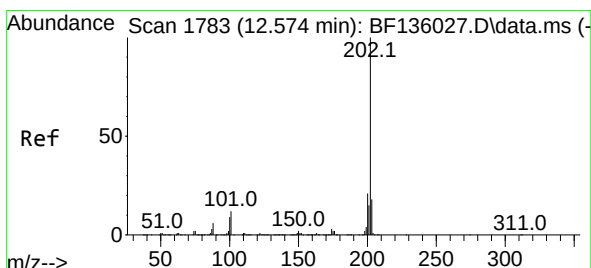
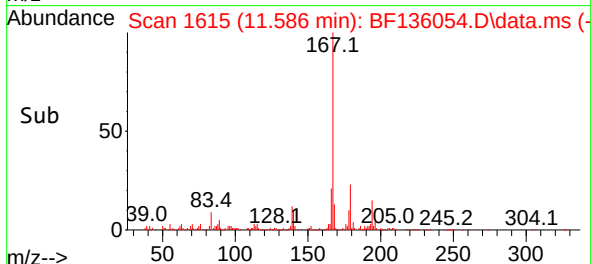
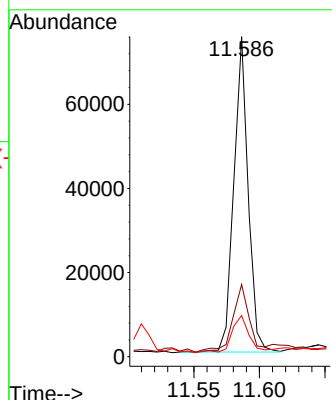
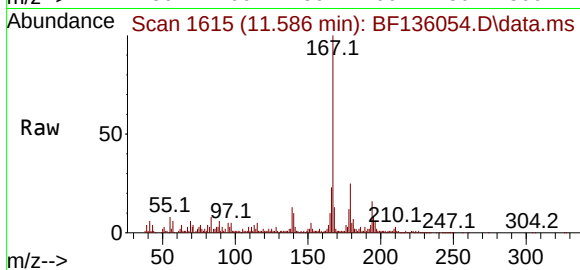
Tgt Ion:167 Resp: 57027

Ion Ratio Lower Upper

167 100

166 22.6 17.2 25.8

139 12.9 9.9 14.9



#75

Fluoranthene

Concen: 144.577 ng

RT: 12.586 min Scan# 1785

Delta R.T. 0.012 min

Lab File: BF136054.D

Acq: 31 Oct 2023 16:33

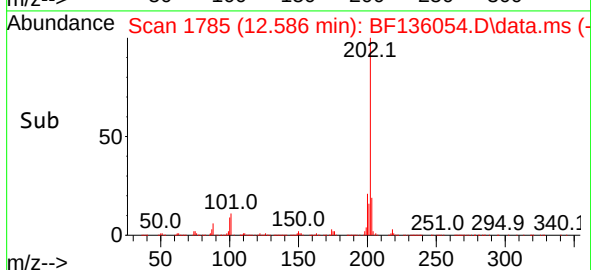
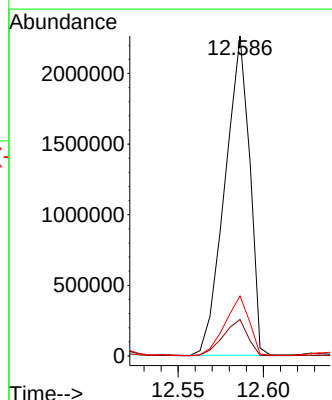
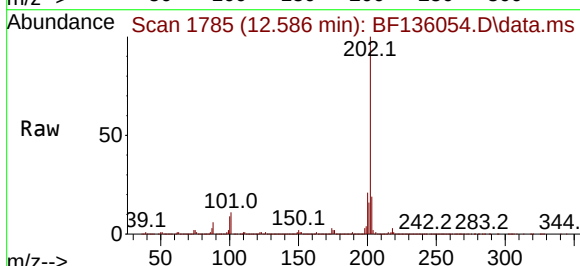
Tgt Ion:202 Resp: 2284063

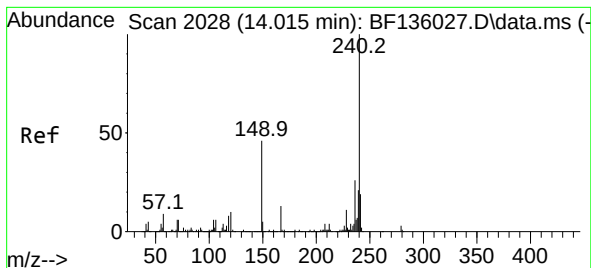
Ion Ratio Lower Upper

202 100

101 11.4 0.0 31.8

203 18.7 0.0 37.9





#76

Chrysene-d12

Concen: 20.000 ng

RT: 14.022 min Scan# 20

Delta R.T. 0.006 min

Lab File: BF136054.D

Acq: 31 Oct 2023 16:33

Instrument :

BNA_F

ClientSampleId :

H-1(0-5)

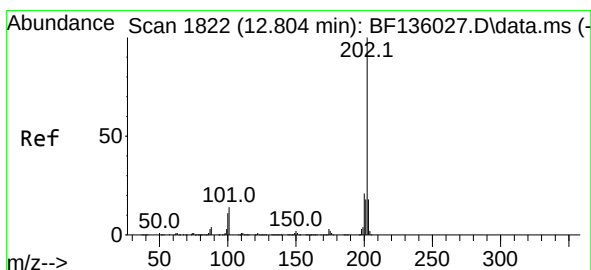
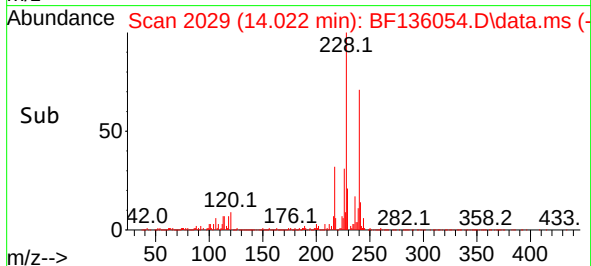
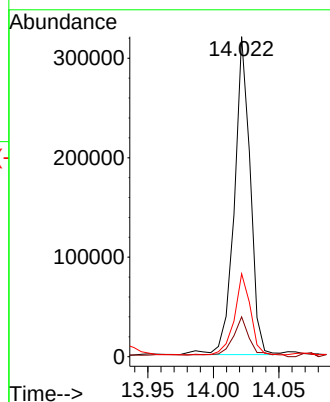
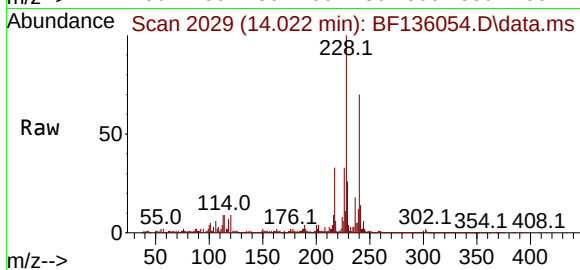
Tgt Ion:240 Resp: 270421

Ion Ratio Lower Upper

240 100

120 12.5 7.6 11.4#

236 25.9 20.6 31.0



#78

Pyrene

Concen: 108.201 ng

RT: 12.822 min Scan# 1825

Delta R.T. 0.018 min

Lab File: BF136054.D

Acq: 31 Oct 2023 16:33

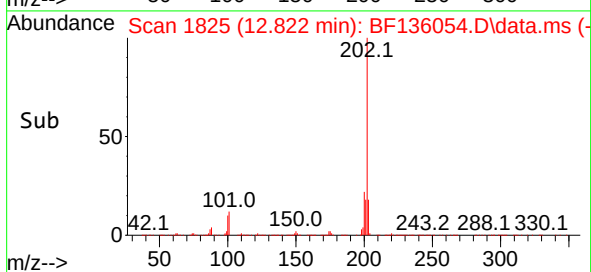
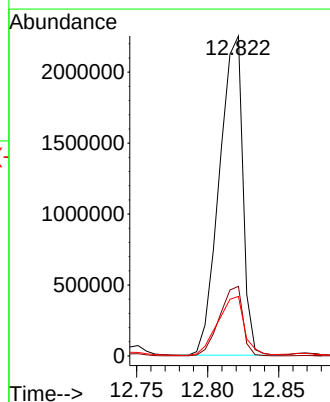
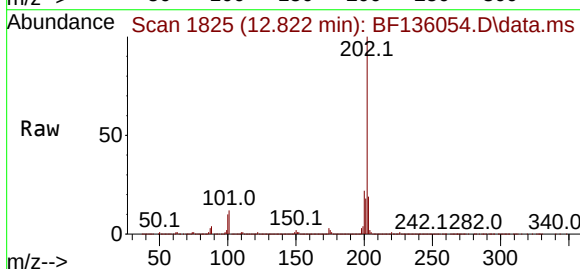
Tgt Ion:202 Resp: 2579687

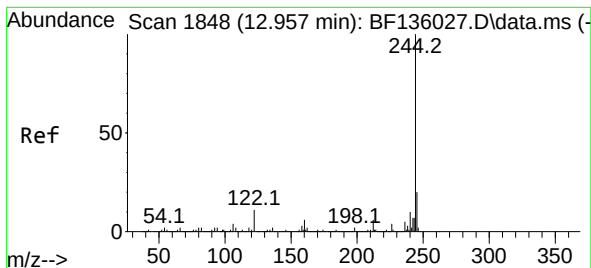
Ion Ratio Lower Upper

202 100

200 21.7 17.0 25.4

203 18.6 14.4 21.6





#79

Terphenyl-d14

Concen: 25.407 ng

RT: 12.957 min Scan# 1

Delta R.T. 0.000 min

Lab File: BF136054.D

Acq: 31 Oct 2023 16:33

Instrument :

BNA_F

ClientSampleId :

H-1(0-5)

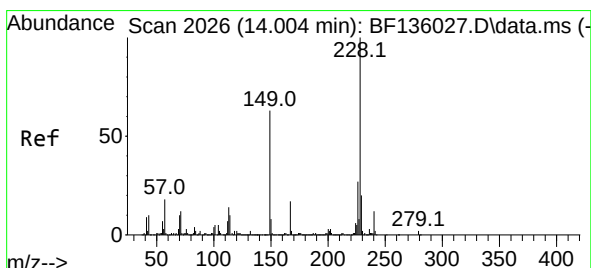
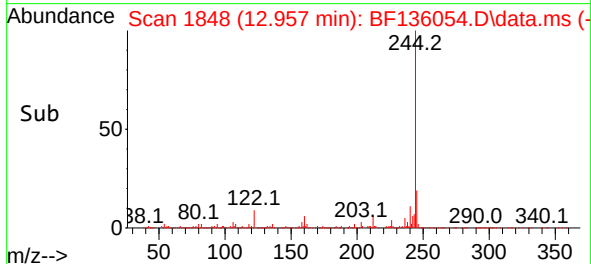
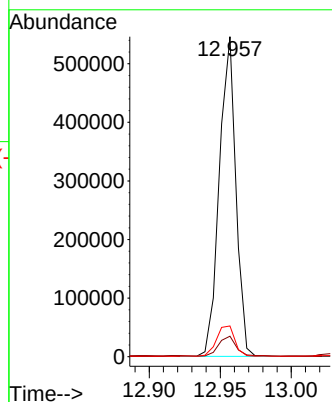
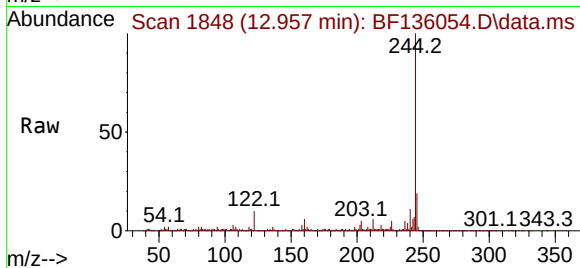
Tgt Ion:244 Resp: 442113

Ion Ratio Lower Upper

244 100

212 6.4 5.1 7.7

122 9.6 8.6 12.8



#81

Benzo(a)anthracene

Concen: 74.607 ng

RT: 14.051 min Scan# 2034

Delta R.T. 0.047 min

Lab File: BF136054.D

Acq: 31 Oct 2023 16:33

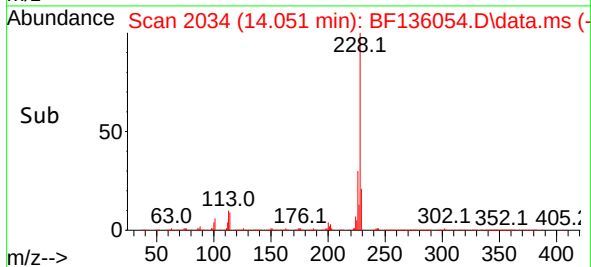
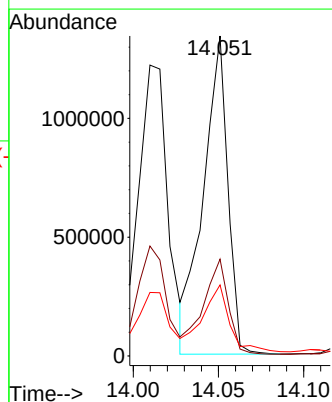
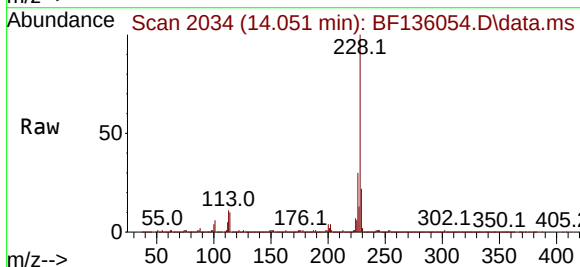
Tgt Ion:228 Resp: 1335655

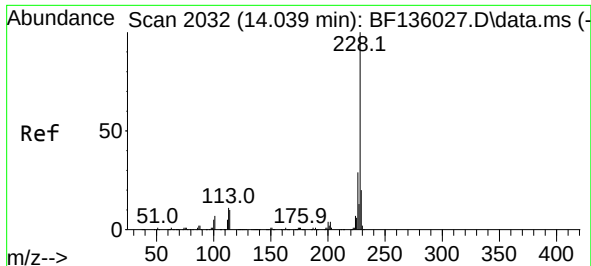
Ion Ratio Lower Upper

228 100

226 30.2 21.5 32.3

229 22.2 15.8 23.6

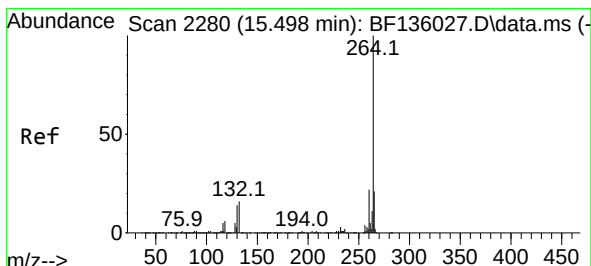
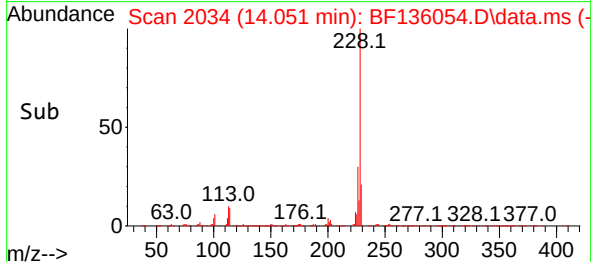
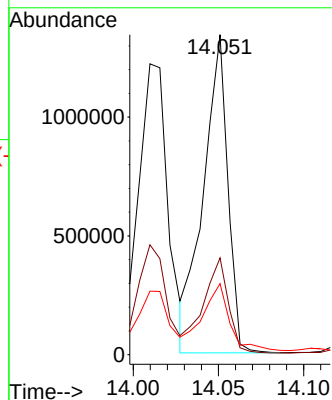
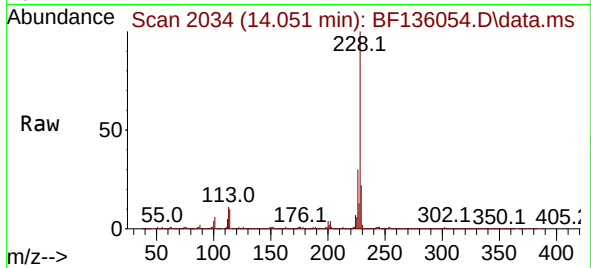




#83
Chrysene
Concen: 75.756 ng
RT: 14.051 min Scan# 2032
Delta R.T. 0.012 min
Lab File: BF136054.D
Acq: 31 Oct 2023 16:33

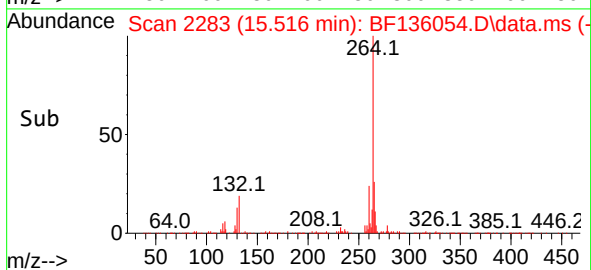
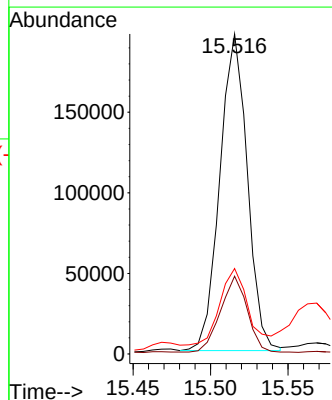
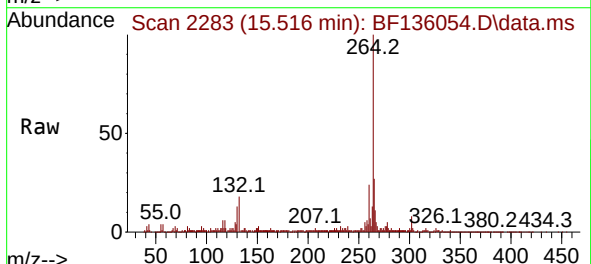
Instrument :
BNA_F
ClientSampleId :
H-1(0-5)

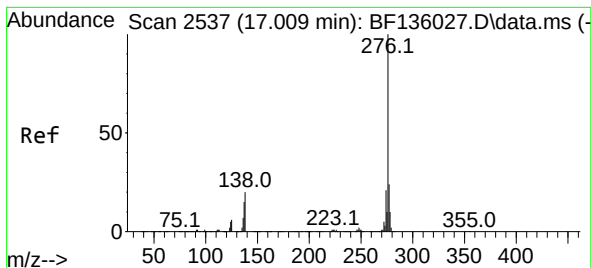
Tgt Ion:228 Resp: 1335655
Ion Ratio Lower Upper
228 100
226 30.2 23.5 35.3
229 22.2 16.0 24.0



#86
Perylene-d12
Concen: 20.000 ng
RT: 15.516 min Scan# 2283
Delta R.T. 0.018 min
Lab File: BF136054.D
Acq: 31 Oct 2023 16:33

Tgt Ion:264 Resp: 242271
Ion Ratio Lower Upper
264 100
260 24.3 17.9 26.9
265 26.7 16.8 25.2#





#87

Indeno(1,2,3-cd)pyrene

Concen: 27.717 ng

RT: 17.033 min Scan# 21

Delta R.T. 0.024 min

Lab File: BF136054.D

Acq: 31 Oct 2023 16:33

Instrument :

BNA_F

ClientSampleId :

H-1(0-5)

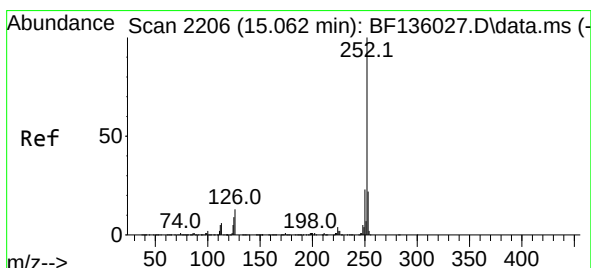
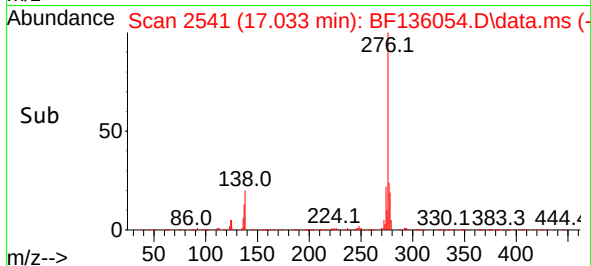
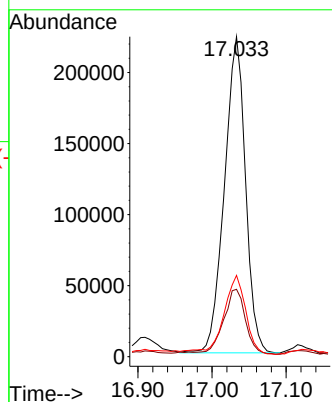
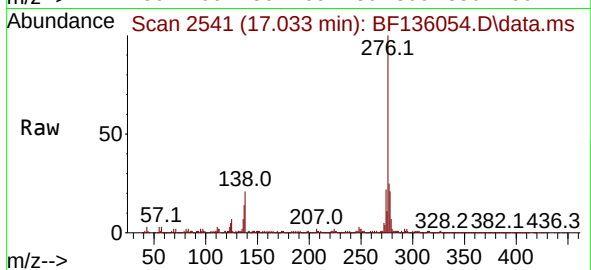
Tgt Ion:276 Resp: 438870

Ion Ratio Lower Upper

276 100

138 22.0 20.4 30.6

277 26.5 20.2 30.2



#88

Benzo(b)fluoranthene

Concen: 117.617 ng

RT: 15.080 min Scan# 2209

Delta R.T. 0.018 min

Lab File: BF136054.D

Acq: 31 Oct 2023 16:33

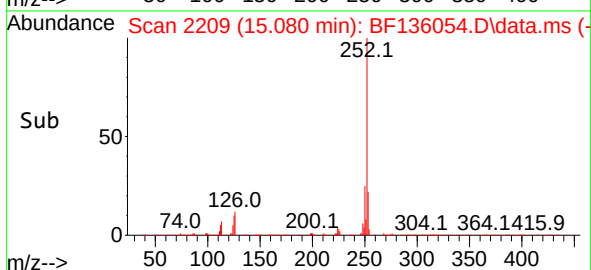
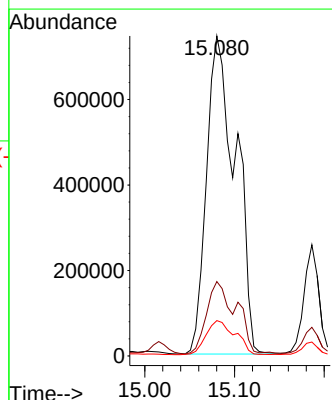
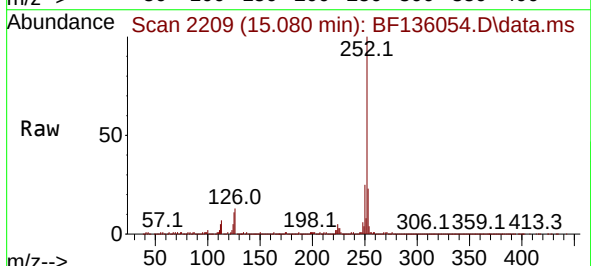
Tgt Ion:252 Resp: 1686105

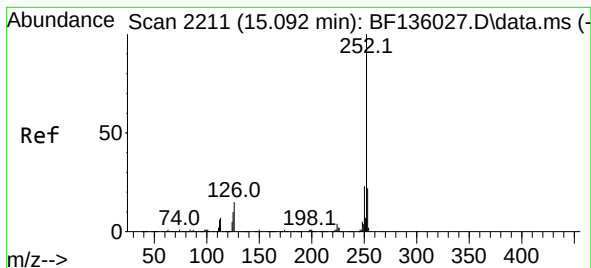
Ion Ratio Lower Upper

252 100

253 23.3 17.7 26.5

125 11.0 7.5 11.3





#89

Benzo(k)fluoranthene

Concen: 118.871 ng

RT: 15.080 min Scan# 21

Delta R.T. -0.011 min

Lab File: BF136054.D

Acq: 31 Oct 2023 16:33

Instrument :

BNA_F

ClientSampleId :

H-1(0-5)

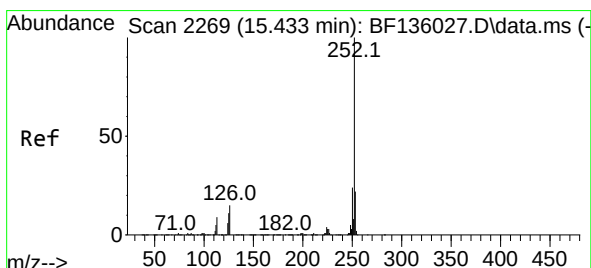
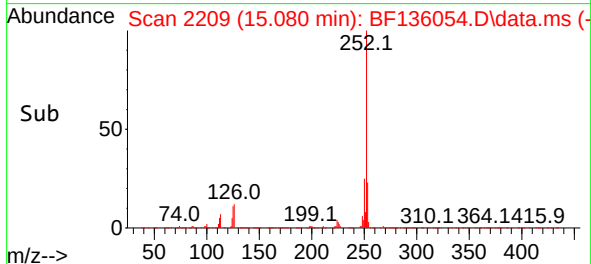
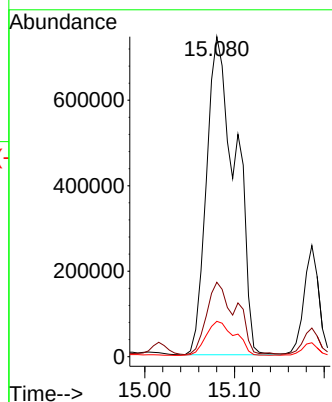
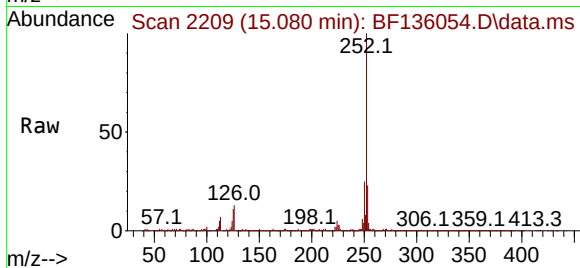
Tgt Ion:252 Resp: 1686105

Ion Ratio Lower Upper

252 100

253 23.3 17.4 26.0

125 11.0 8.0 12.0



#90

Benzo(a)pyrene

Concen: 77.651 ng

RT: 15.457 min Scan# 2273

Delta R.T. 0.024 min

Lab File: BF136054.D

Acq: 31 Oct 2023 16:33

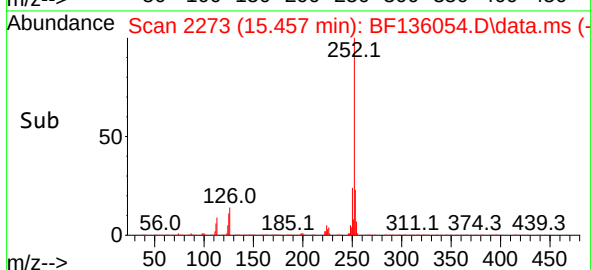
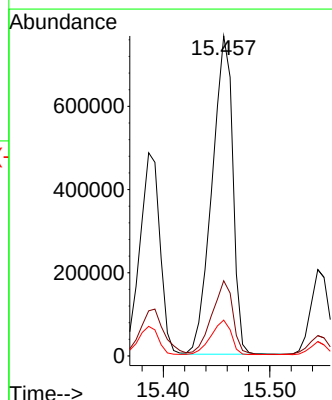
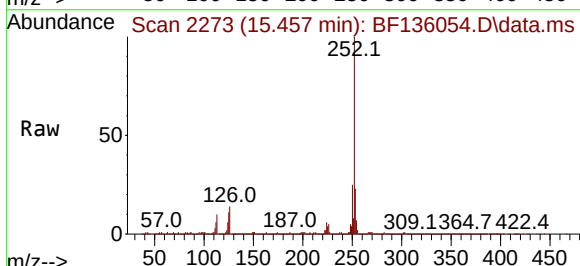
Tgt Ion:252 Resp: 1034305

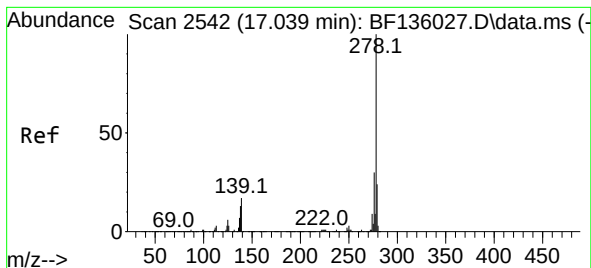
Ion Ratio Lower Upper

252 100

253 23.5 17.3 25.9

125 11.2 9.0 13.6





#91

Dibenzo(a,h)anthracene

Concen: 9.856 ng

RT: 17.045 min Scan# 21

Delta R.T. 0.006 min

Lab File: BF136054.D

Acq: 31 Oct 2023 16:33

Instrument :

BNA_F

ClientSampleId :

H-1(0-5)

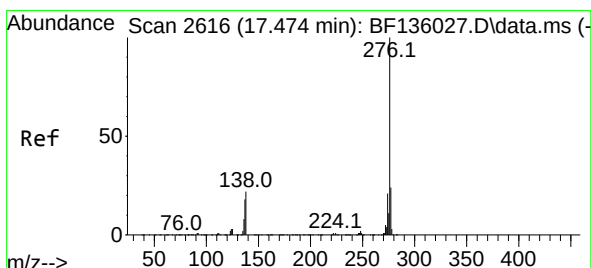
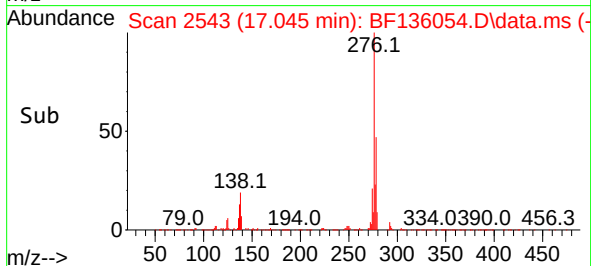
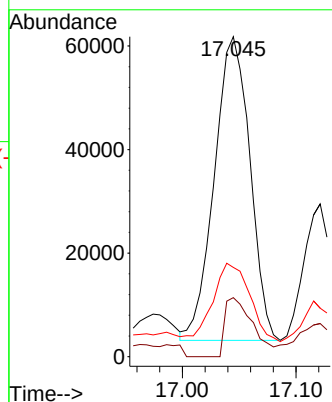
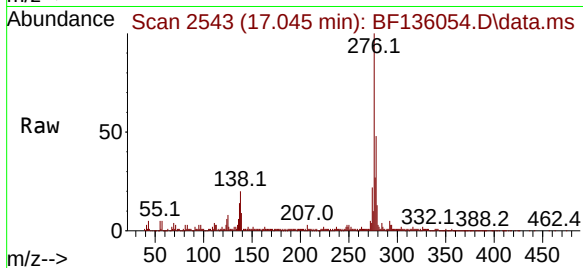
Tgt Ion:278 Resp: 127833

Ion Ratio Lower Upper

278 100

139 18.5 13.7 20.5

279 27.9 19.0 28.6



#92

Benzo(g,h,i)perylene

Concen: 29.896 ng

RT: 17.498 min Scan# 2620

Delta R.T. 0.024 min

Lab File: BF136054.D

Acq: 31 Oct 2023 16:33

Tgt Ion:276 Resp: 424303

Ion Ratio Lower Upper

276 100

277 24.1 19.0 28.4

138 21.4 17.4 26.2

