

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF120623\
 Data File : BF136437.D
 Acq On : 06 Dec 2023 19:52
 Operator : CG\JU
 Sample : 05446-03
 Misc :
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Dec 07 00:55:15 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF120523.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Dec 06 09:40:27 2023
 Response via : Initial Calibration

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

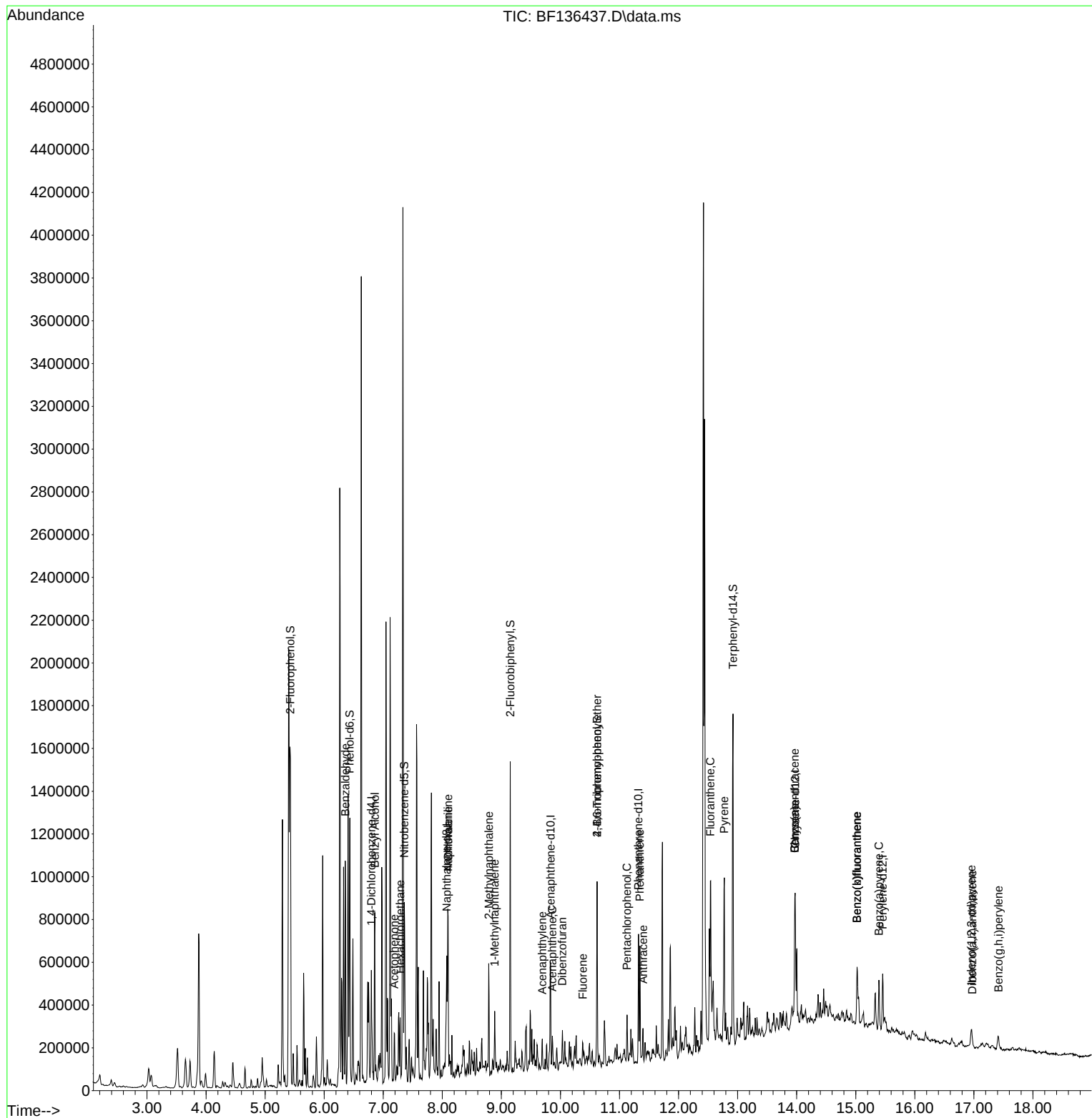
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.798	152	65656	20.000	ng	0.00
21) Naphthalene-d8	8.075	136	209667	20.000	ng	0.00
39) Acenaphthene-d10	9.833	164	102176	20.000	ng	0.00
64) Phenanthrene-d10	11.321	188	214099	20.000	ng	0.00
76) Chrysene-d12	13.974	240	151548	20.000	ng	# 0.00
86) Perylene-d12	15.456	264	125511	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.428	112	360339	81.052	ng	0.00
7) Phenol-d6	6.434	99	394971	71.208	ng	-0.01
23) Nitrobenzene-d5	7.357	82	220973	56.975	ng	-0.01
42) 2,4,6-Tribromophenol	10.621	330	97725	77.569	ng	-0.01
45) 2-Fluorobiphenyl	9.151	172	372606	49.759	ng	-0.01
79) Terphenyl-d14	12.921	244	537121	46.715	ng	0.00
Target Compounds						Qvalue
9) Benzaldehyde	6.357	77	37887	10.860	ng	# 1
15) Benzyl Alcohol	6.857	79	20453	5.507	ng	# 10
18) Hexachloroethane	7.286	117	7668	3.967	ng	# 1
22) Acetophenone	7.186	105	63229	12.212	ng	# 60
31) Naphthalene	8.098	128	262845	22.733	ng	98
33) 4-Chloroaniline	8.098	127	36035	8.742	ng	# 39
37) 2-Methylnaphthalene	8.786	142	127154	17.286	ng	95
38) 1-Methylnaphthalene	8.886	142	63238	8.761	ng	94
49) Acenaphthylene	9.692	152	30384	3.152	ng	# 94
52) Acenaphthene	9.863	154	24174	3.913	ng	95
55) Dibenzofuran	10.033	168	18549	2.056	ng	# 72
58) Fluorene	10.380	166	24714	3.412	ng	# 93
67) 4-Bromophenyl-phenylether	10.621	248	5896	2.369	ng	# 1
70) Pentachlorophenol	11.127	266	21658	13.338	ng	97
71) Phenanthrene	11.345	178	181978	15.464	ng	98
72) Anthracene	11.398	178	57803	4.877	ng	99
75) Fluoranthene	12.539	202	320082	25.955	ng	96
77) Benzidine	12.645	184	454	Below Cal		# 1
78) Pyrene	12.774	202	338958	22.838	ng	97
81) Benzo(a)anthracene	13.968	228	158462	15.011	ng	94
83) Chrysene	13.968	228	158462	15.257	ng	97
87) Indeno(1,2,3-cd)pyrene	16.956	276	59015	6.768	ng	95
88) Benzo(b)fluoranthene	15.021	252	201231	23.449	ng	# 95
89) Benzo(k)fluoranthene	15.021	252	201231	24.882	ng	95
90) Benzo(a)pyrene	15.392	252	105953	14.950	ng	96
91) Dibenzo(a,h)anthracene	16.974	278	16955	2.374	ng	# 78
92) Benzo(g,h,i)perylene	17.415	276	58007	7.912	ng	94

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

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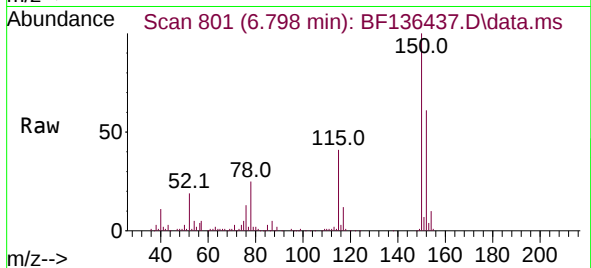
Quant Time: Dec 07 00:55:15 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF120523.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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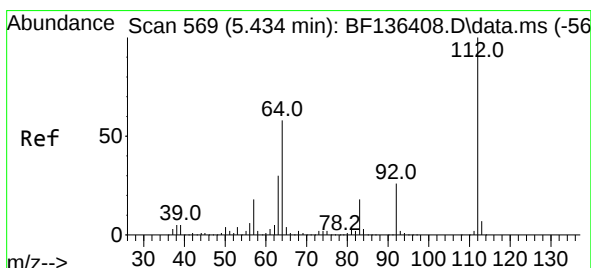
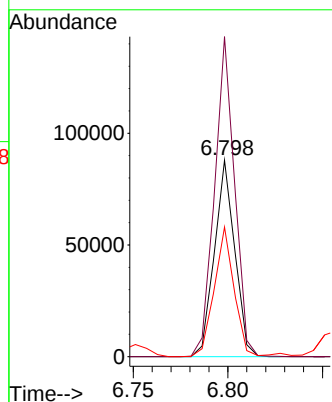
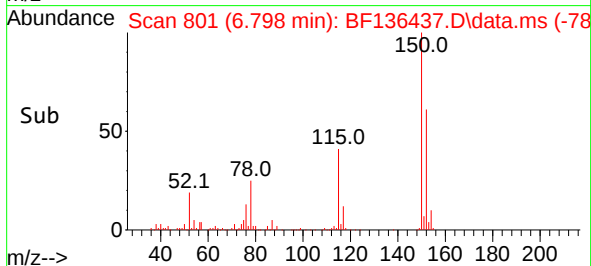


#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.798 min Scan# 801
Delta R.T. -0.006 min
Lab File: BF136437.D
Acq: 06 Dec 2023 19:52

Instrument :
BNA_F
ClientSampleId :

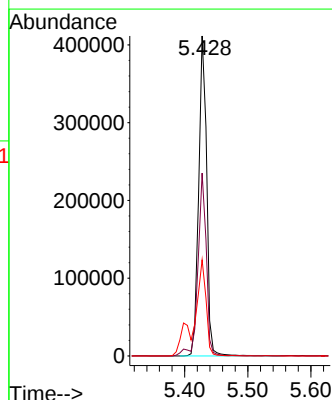
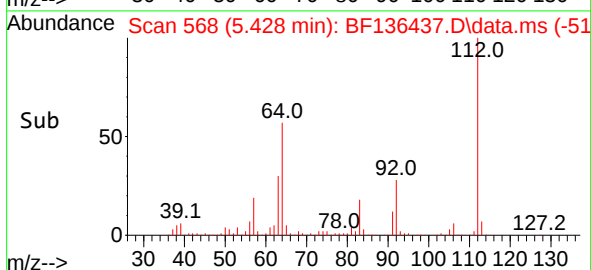
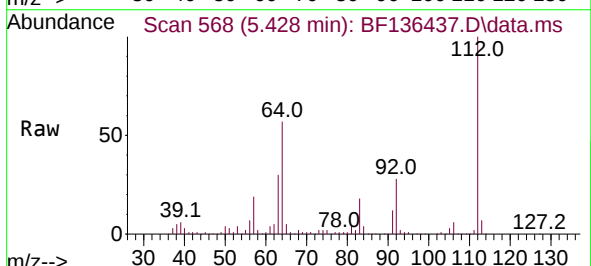


Tgt Ion:152 Resp: 65656
Ion Ratio Lower Upper
152 100
150 162.9 126.4 189.6
115 66.0 48.2 72.4



#5
2-Fluorophenol
Concen: 81.052 ng
RT: 5.428 min Scan# 568
Delta R.T. -0.006 min
Lab File: BF136437.D
Acq: 06 Dec 2023 19:52

Tgt Ion:112 Resp: 360339
Ion Ratio Lower Upper
112 100
64 57.2 46.5 69.7
63 30.1 23.9 35.9

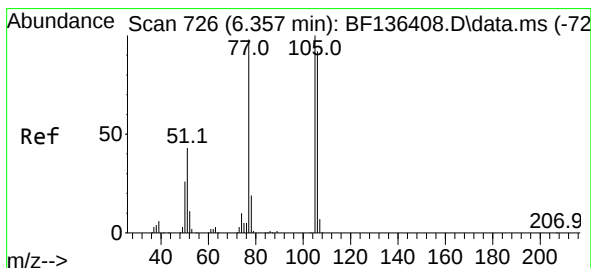
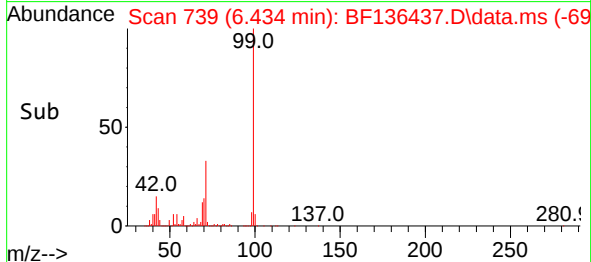
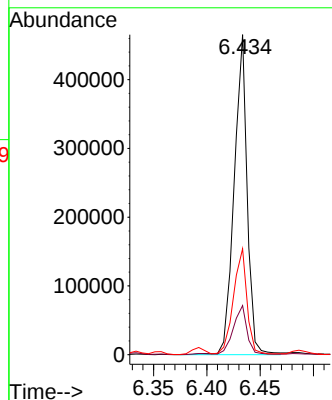
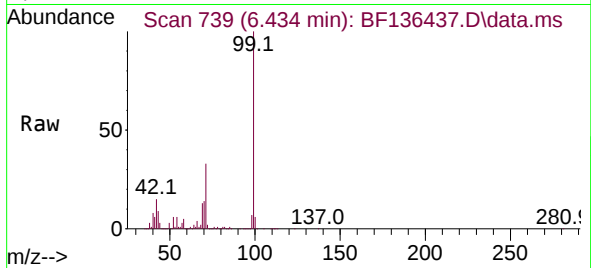




#7
Phenol-d6
Concen: 71.208 ng
RT: 6.434 min Scan# 71
Delta R.T. -0.012 min
Lab File: BF136437.D
Acq: 06 Dec 2023 19:52

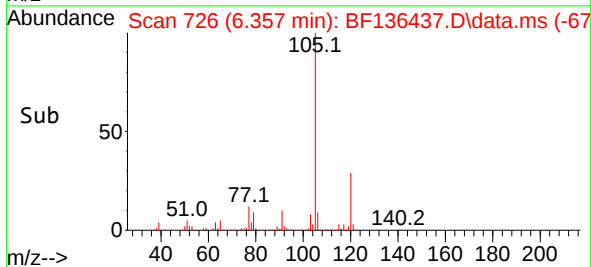
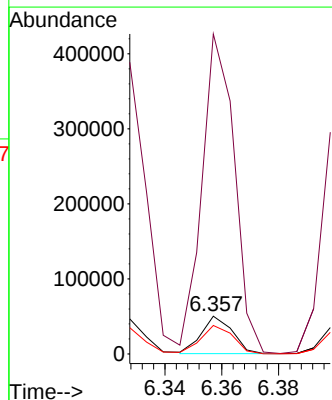
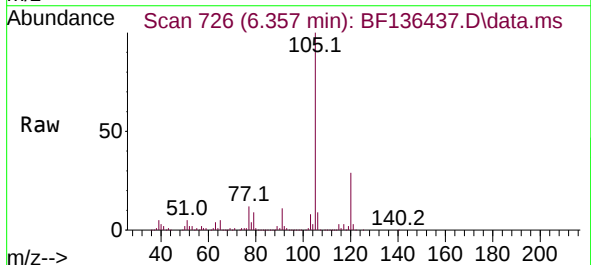
Instrument :
BNA_F
ClientSampleId :

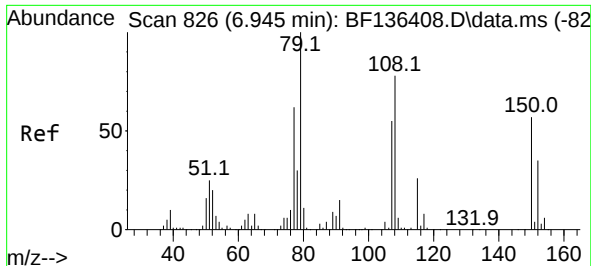
Tgt Ion: 99 Resp: 394971
Ion Ratio Lower Upper
99 100
42 15.3 12.8 19.2
71 33.1 27.0 40.4



#9
Benzaldehyde
Concen: 10.860 ng
RT: 6.357 min Scan# 726
Delta R.T. -0.000 min
Lab File: BF136437.D
Acq: 06 Dec 2023 19:52

Tgt Ion: 77 Resp: 37887
Ion Ratio Lower Upper
77 100
105 846.8 82.5 122.5#
106 75.3 74.5 114.5

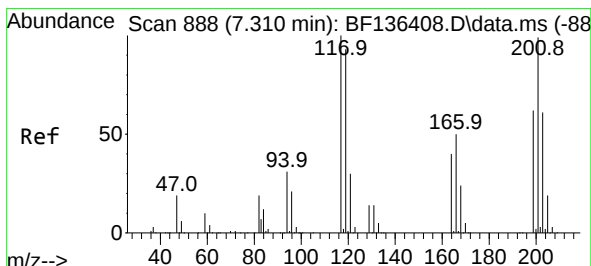
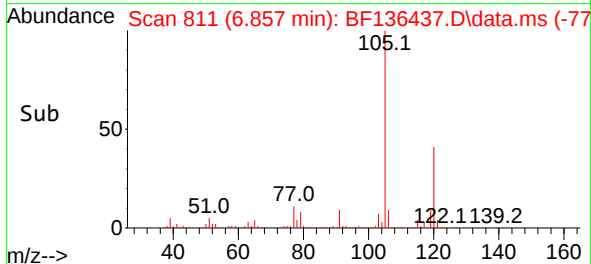
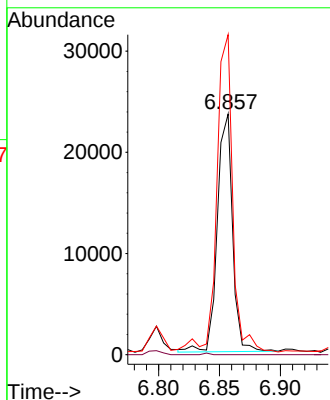
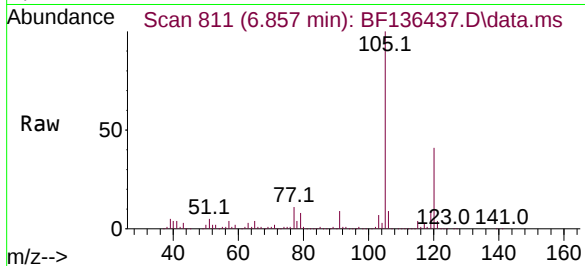




#15
Benzyl Alcohol
Concen: 5.507 ng
RT: 6.857 min Scan# 811
Delta R.T. -0.088 min
Lab File: BF136437.D
Acq: 06 Dec 2023 19:52

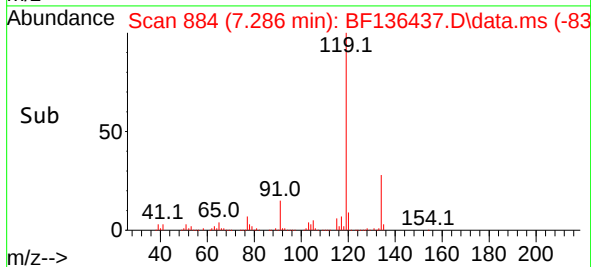
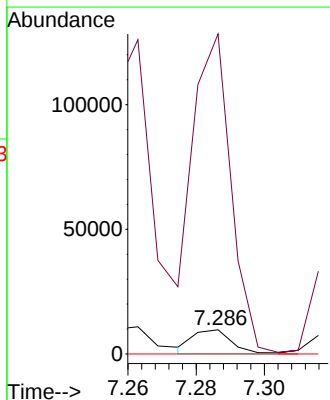
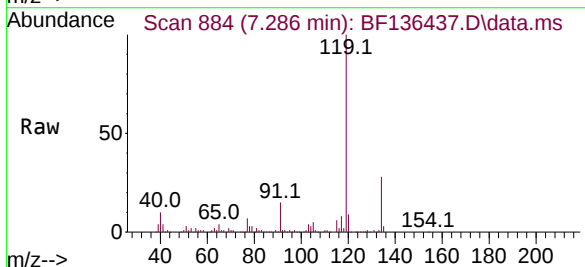
Instrument :
BNA_F
ClientSampleId :

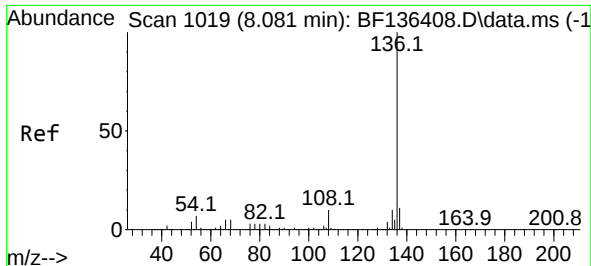
Tgt Ion: 79 Resp: 20453
Ion Ratio Lower Upper
79 100
108 0.0 62.3 93.5#
77 133.0 49.8 74.8#



#18
Hexachloroethane
Concen: 3.967 ng
RT: 7.286 min Scan# 884
Delta R.T. -0.024 min
Lab File: BF136437.D
Acq: 06 Dec 2023 19:52

Tgt Ion: 117 Resp: 7668
Ion Ratio Lower Upper
117 100
119 1325.0 74.3 111.5#
201 0.0 79.3 118.9#

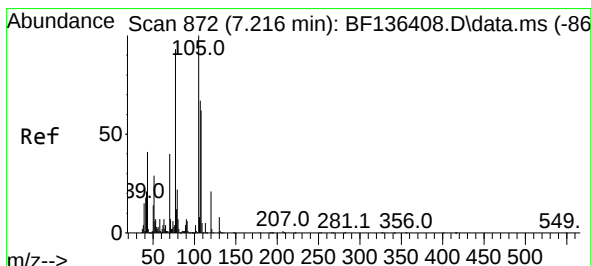
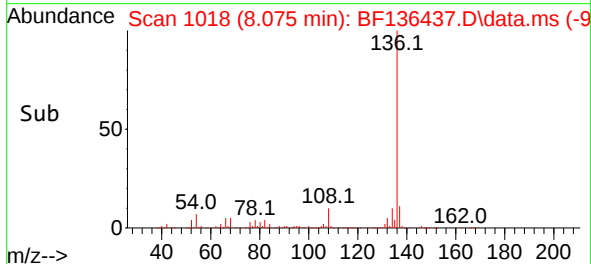
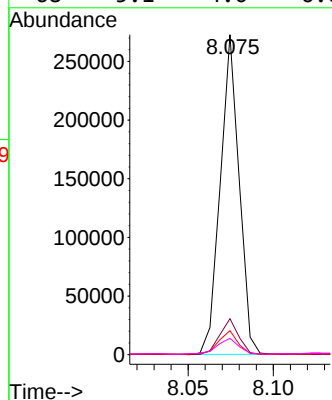
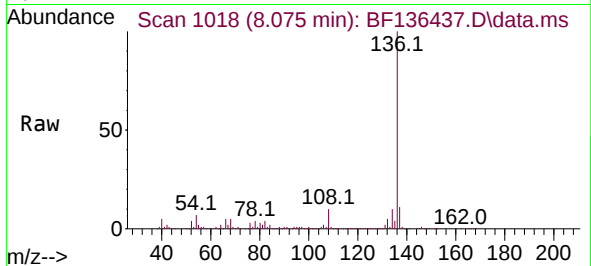




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.075 min Scan# 1019
Delta R.T. -0.006 min
Lab File: BF136437.D
Acq: 06 Dec 2023 19:52

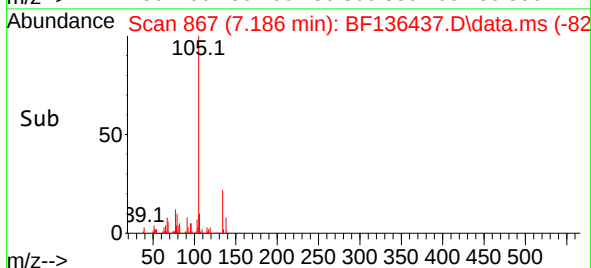
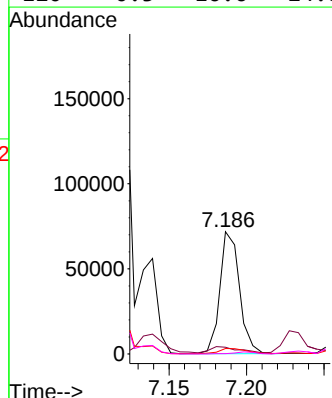
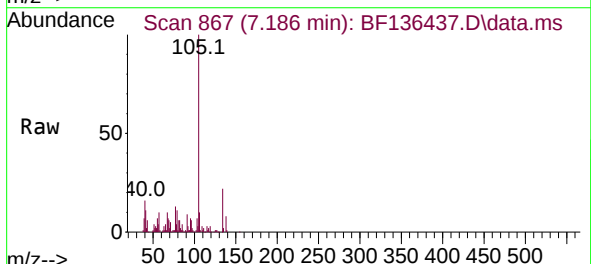
Instrument :
BNA_F
ClientSampleId :

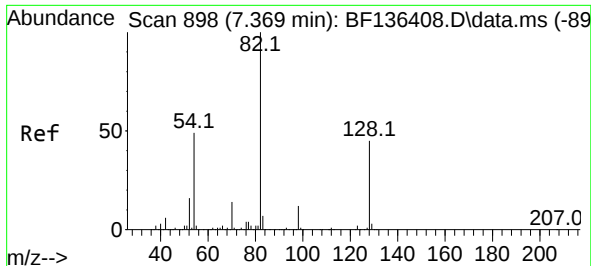
Tgt Ion:136 Resp: 209667
Ion Ratio Lower Upper
136 100
137 11.2 8.6 12.8
54 7.5 5.7 8.5
68 5.1 4.0 6.0



#22
Acetophenone
Concen: 12.212 ng
RT: 7.186 min Scan# 867
Delta R.T. -0.030 min
Lab File: BF136437.D
Acq: 06 Dec 2023 19:52

Tgt Ion:105 Resp: 63229
Ion Ratio Lower Upper
105 100
71 5.5 5.4 8.0
51 4.5 23.4 35.2#
120 0.3 16.6 24.8#





#23

Nitrobenzene-d5

Concen: 56.975 ng

RT: 7.357 min Scan# 89

Delta R.T. -0.012 min

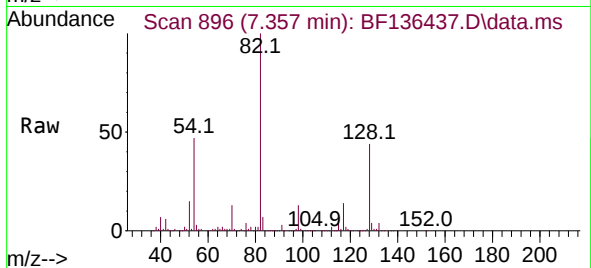
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Acq: 06 Dec 2023 19:52

Instrument :

BNA_F

ClientSampleId :



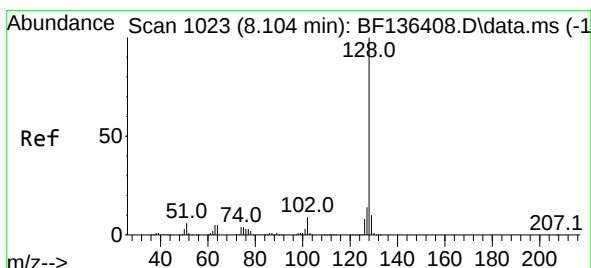
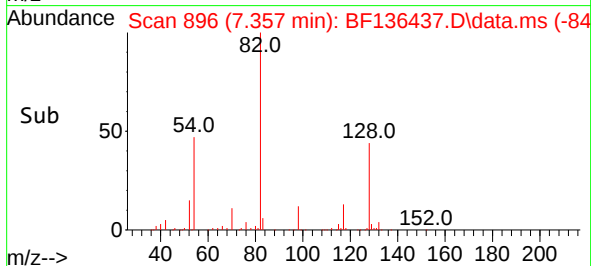
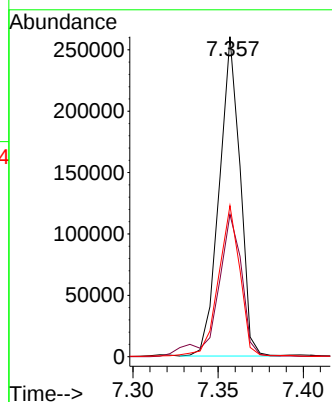
Tgt Ion: 82 Resp: 220973

Ion Ratio Lower Upper

82 100

128 44.5 36.3 54.5

54 47.2 39.0 58.6



#31

Naphthalene

Concen: 22.733 ng

RT: 8.098 min Scan# 1022

Delta R.T. -0.006 min

Lab File: BF136437.D

Acq: 06 Dec 2023 19:52

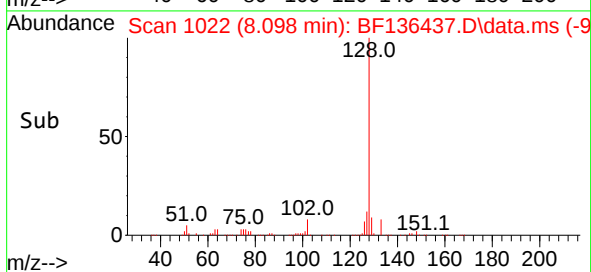
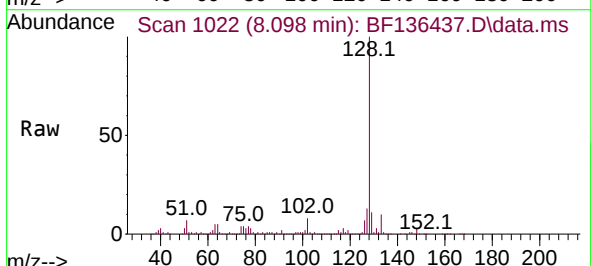
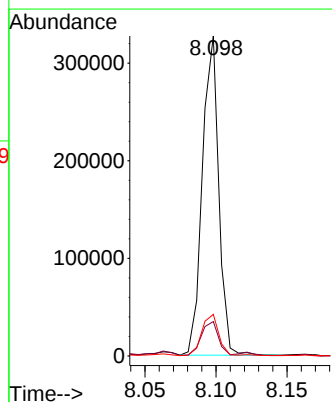
Tgt Ion: 128 Resp: 262845

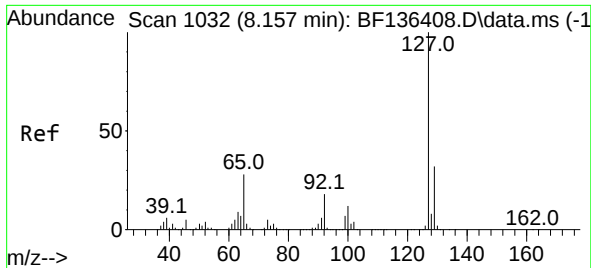
Ion Ratio Lower Upper

128 100

129 10.8 8.3 12.5

127 13.0 11.1 16.7

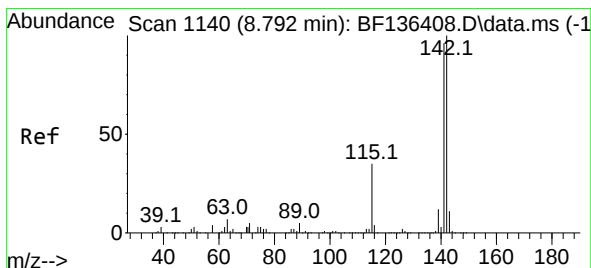
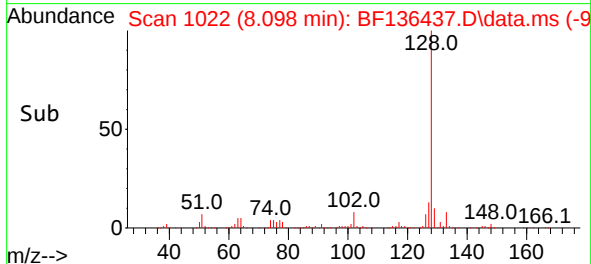
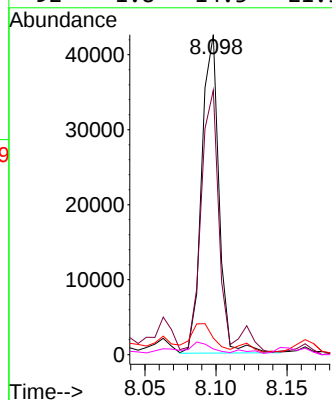
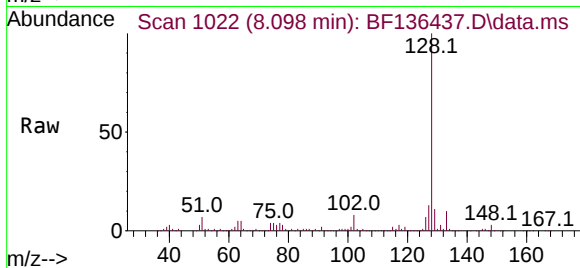




#33
4-Chloroaniline
Concen: 8.742 ng
RT: 8.098 min Scan# 1139
Delta R.T. -0.059 min
Lab File: BF136437.D
Acq: 06 Dec 2023 19:52

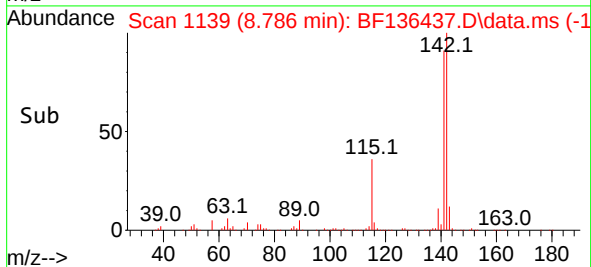
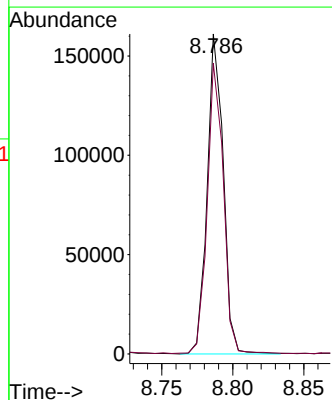
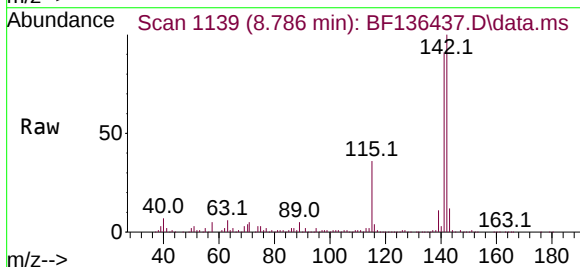
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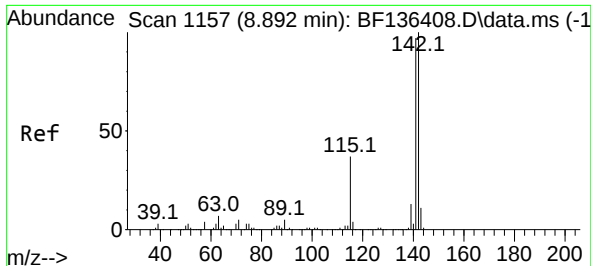
Tgt Ion:127	Resp:	36035
Ion Ratio	Lower	Upper
127	100	
129	82.6	25.4 38.2#
65	5.2	22.5 33.7#
92	1.8	14.3 21.5#



#37
2-Methylnaphthalene
Concen: 17.286 ng
RT: 8.786 min Scan# 1139
Delta R.T. -0.006 min
Lab File: BF136437.D
Acq: 06 Dec 2023 19:52

Tgt Ion:142	Resp:	127154
Ion Ratio	Lower	Upper
142	100	
141	90.9	76.4 114.6





#38

1-Methylnaphthalene

Concen: 8.761 ng

RT: 8.886 min Scan# 1156

Delta R.T. -0.006 min

Lab File: BF136437.D

Acq: 06 Dec 2023 19:52

Instrument :

BNA_F

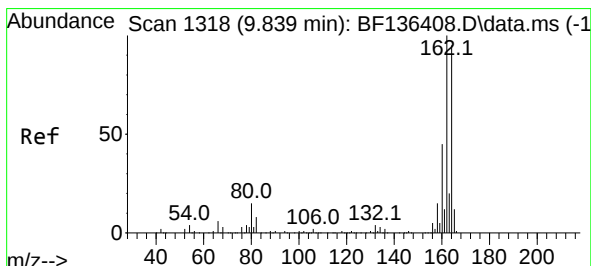
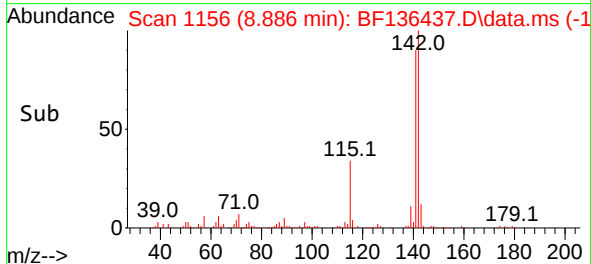
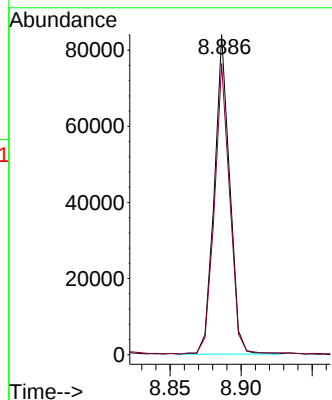
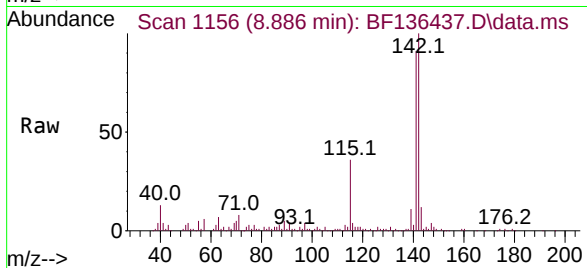
ClientSampleId :

Tgt Ion:142 Resp: 63238

Ion Ratio Lower Upper

142 100

141 90.9 77.7 116.5



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.833 min Scan# 1317

Delta R.T. -0.006 min

Lab File: BF136437.D

Acq: 06 Dec 2023 19:52

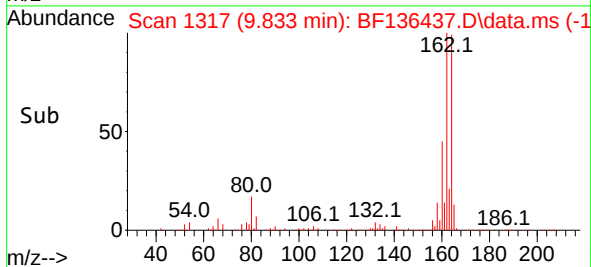
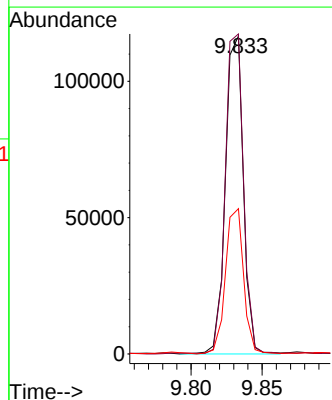
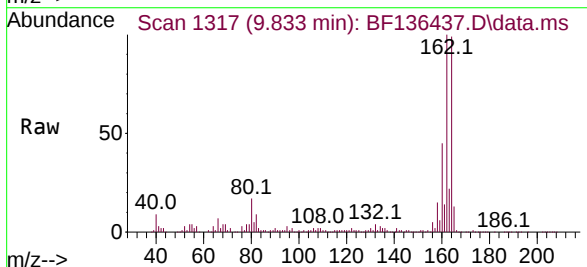
Tgt Ion:164 Resp: 102176

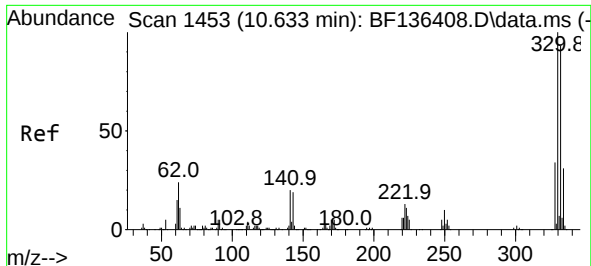
Ion Ratio Lower Upper

164 100

162 100.7 84.4 126.6

160 45.7 37.6 56.4





#42

2,4,6-Tribromophenol

Concen: 77.569 ng

RT: 10.621 min Scan# 1453

Delta R.T. -0.012 min

Lab File: BF136437.D

Acq: 06 Dec 2023 19:52

Instrument :

BNA_F

ClientSampleId :

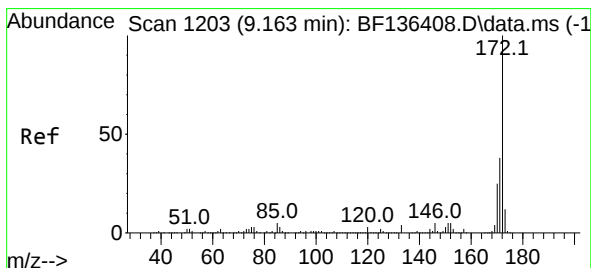
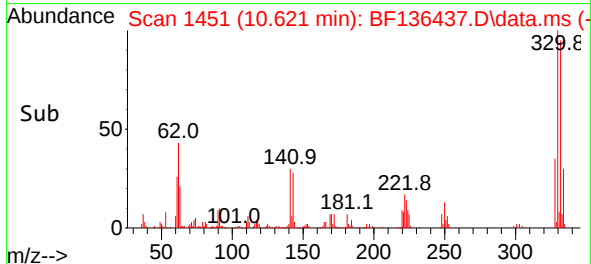
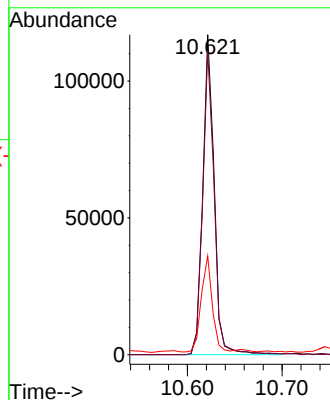
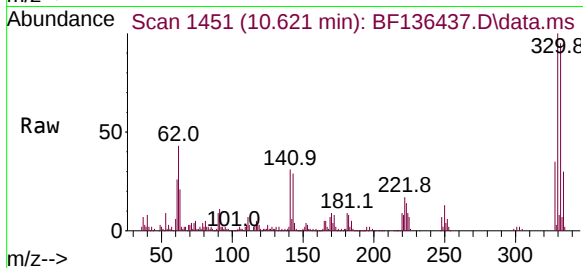
Tgt Ion:330 Resp: 97725

Ion Ratio Lower Upper

330 100

332 95.2 76.4 114.6

141 28.9 23.4 35.2



#45

2-Fluorobiphenyl

Concen: 49.759 ng

RT: 9.151 min Scan# 1201

Delta R.T. -0.012 min

Lab File: BF136437.D

Acq: 06 Dec 2023 19:52

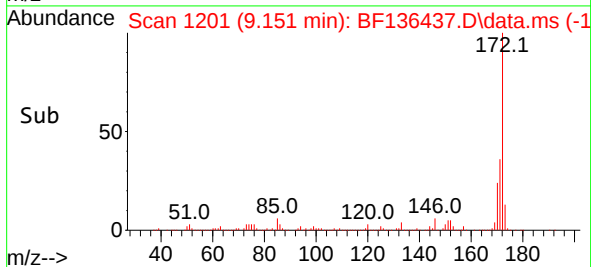
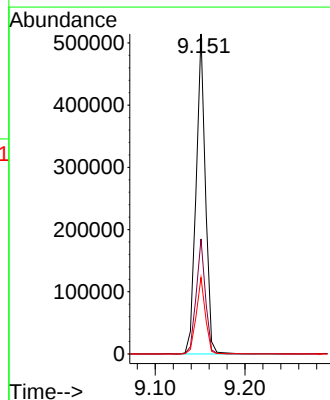
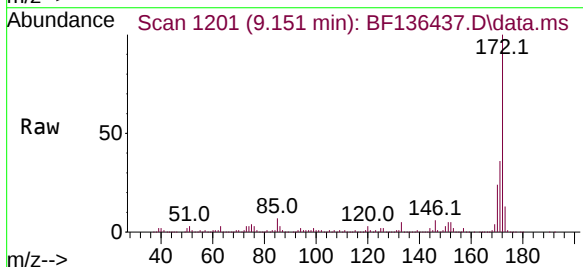
Tgt Ion:172 Resp: 372606

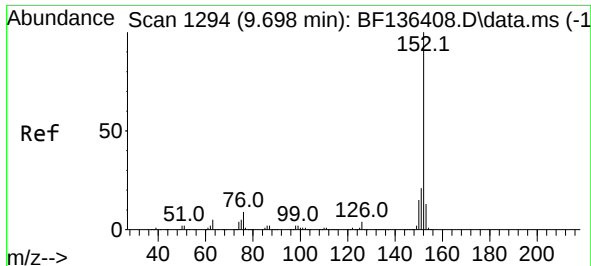
Ion Ratio Lower Upper

172 100

171 36.0 30.5 45.7

170 23.9 19.9 29.9





#49

Acenaphthylene

Concen: 3.152 ng

RT: 9.692 min Scan# 1

Delta R.T. -0.006 min

Lab File: BF136437.D

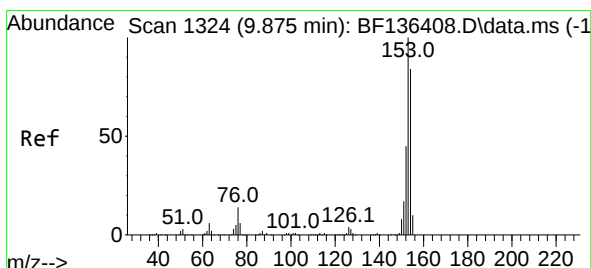
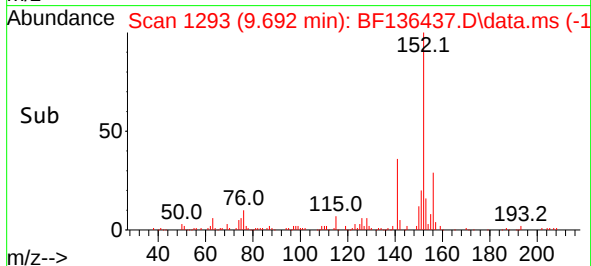
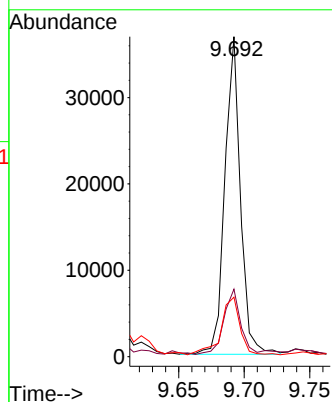
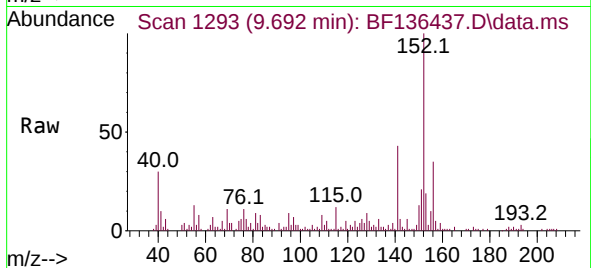
Acq: 06 Dec 2023 19:52

Instrument :

BNA_F

ClientSampleId :

Tgt Ion:152	Resp:	30384
Ion Ratio	Lower	Upper
152	100	
151	21.1	17.2 25.8
153	18.6	10.6 15.8#



#52

Acenaphthene

Concen: 3.913 ng

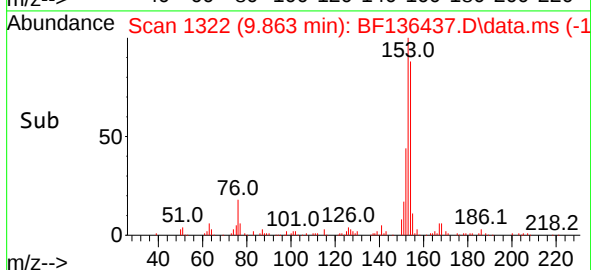
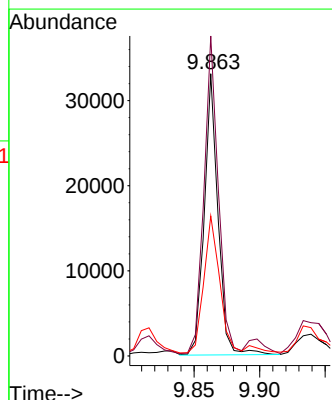
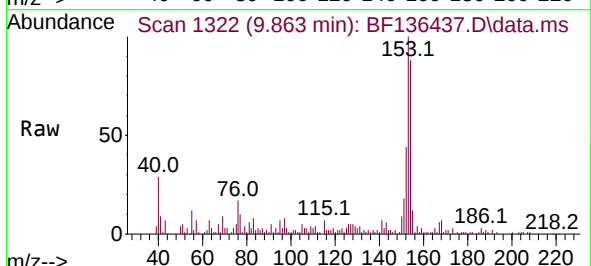
RT: 9.863 min Scan# 1322

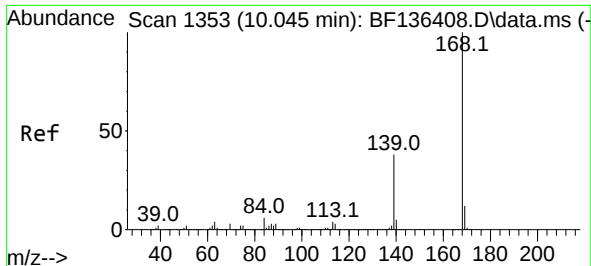
Delta R.T. -0.012 min

Lab File: BF136437.D

Acq: 06 Dec 2023 19:52

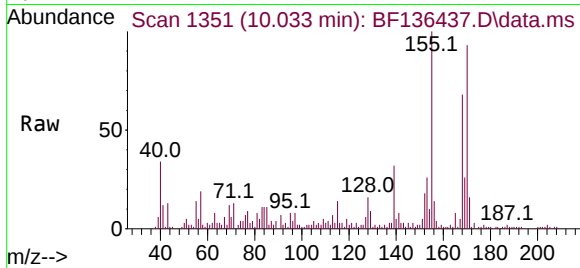
Tgt Ion:154	Resp:	24174
Ion Ratio	Lower	Upper
154	100	
153	113.4	95.3 142.9
152	49.6	43.2 64.8



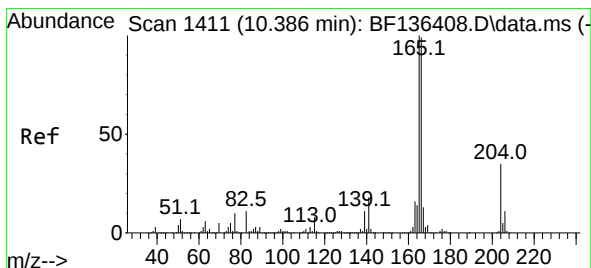
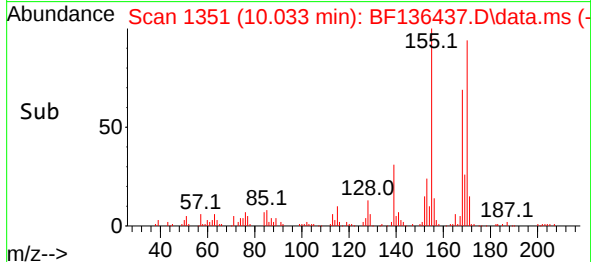
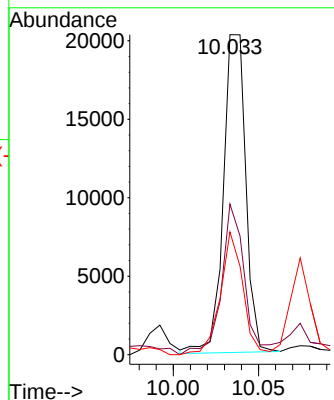


#55
Dibenzenofuran
Concen: 2.056 ng
RT: 10.033 min Scan# 11
Delta R.T. -0.012 min
Lab File: BF136437.D
Acq: 06 Dec 2023 19:52

Instrument :
BNA_F
ClientSampleId :

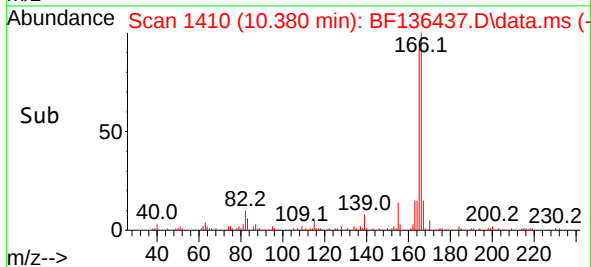
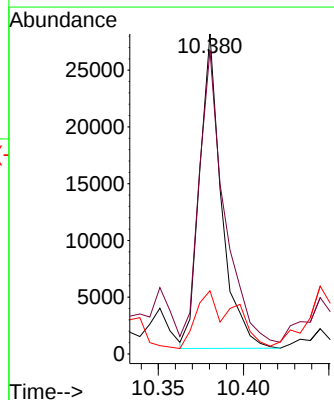
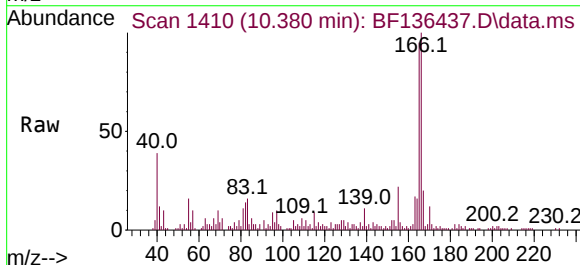


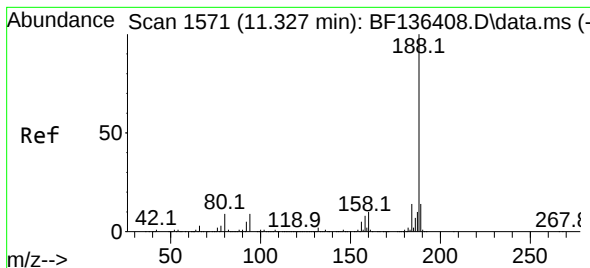
Tgt Ion:168 Resp: 18549
Ion Ratio Lower Upper
168 100
139 47.0 30.4 45.6#
169 38.4 9.9 14.9#



#58
Fluorene
Concen: 3.412 ng
RT: 10.380 min Scan# 1410
Delta R.T. -0.006 min
Lab File: BF136437.D
Acq: 06 Dec 2023 19:52

Tgt Ion:166 Resp: 24714
Ion Ratio Lower Upper
166 100
165 94.9 80.5 120.7
167 19.8 10.5 15.7#





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.321 min Scan# 11

Delta R.T. -0.006 min

Lab File: BF136437.D

Acq: 06 Dec 2023 19:52

Instrument :

BNA_F

ClientSampleId :

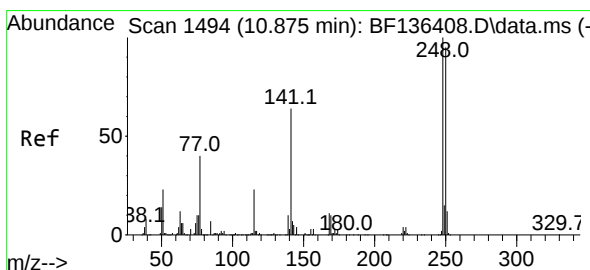
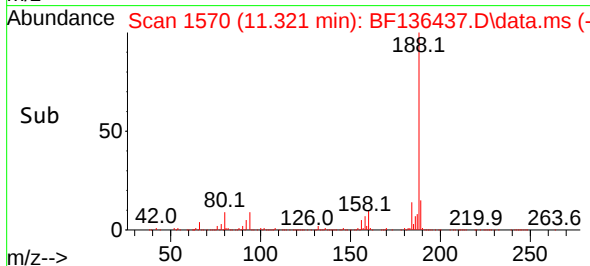
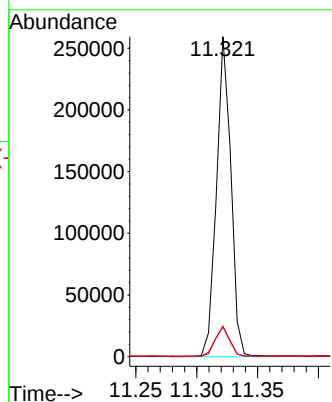
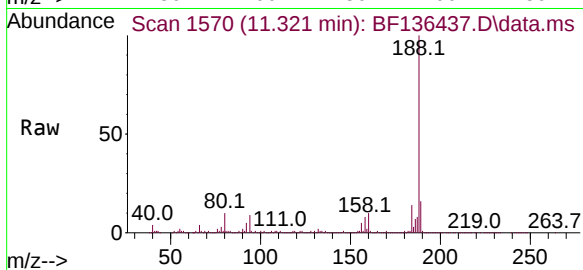
Tgt Ion:188 Resp: 214099

Ion Ratio Lower Upper

188 100

94 9.3 7.2 10.8

80 9.5 7.2 10.8



#67

4-Bromophenyl-phenylether

Concen: 2.369 ng

RT: 10.621 min Scan# 1451

Delta R.T. -0.253 min

Lab File: BF136437.D

Acq: 06 Dec 2023 19:52

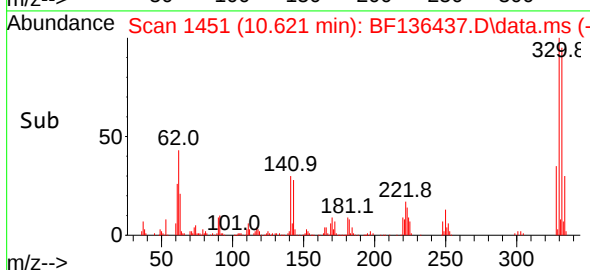
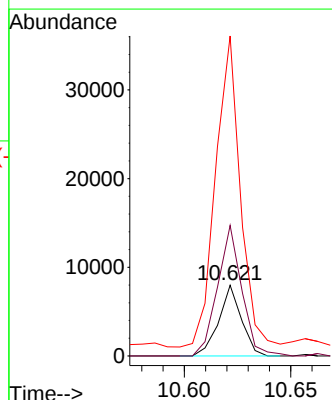
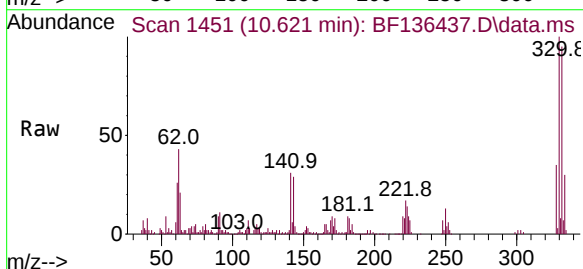
Tgt Ion:248 Resp: 5896

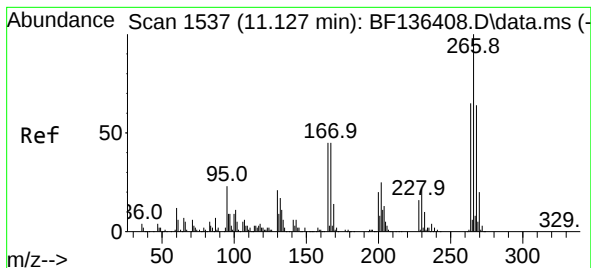
Ion Ratio Lower Upper

248 100

250 184.6 76.2 114.2#

141 452.6 51.0 76.4#





#70

Pentachlorophenol

Concen: 13.338 ng

RT: 11.127 min Scan# 1537

Delta R.T. -0.000 min

Lab File: BF136437.D

Acq: 06 Dec 2023 19:52

Instrument :

BNA_F

ClientSampleId :

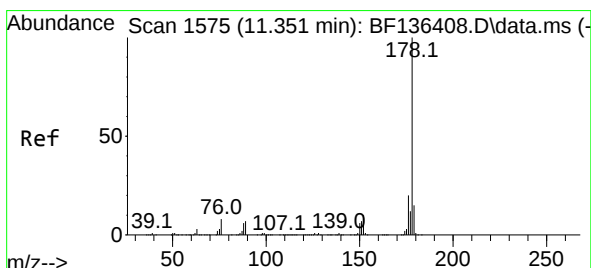
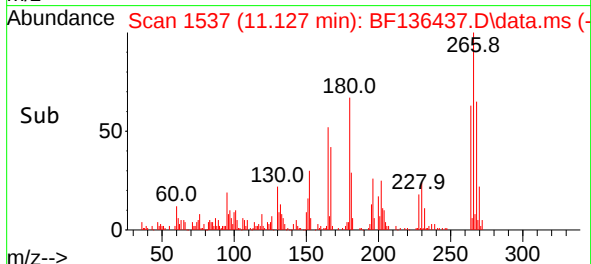
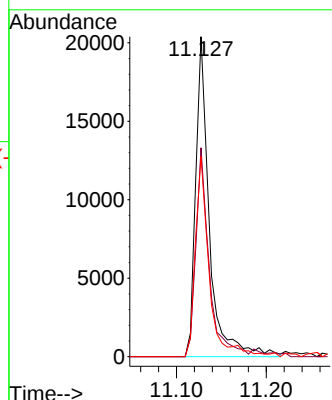
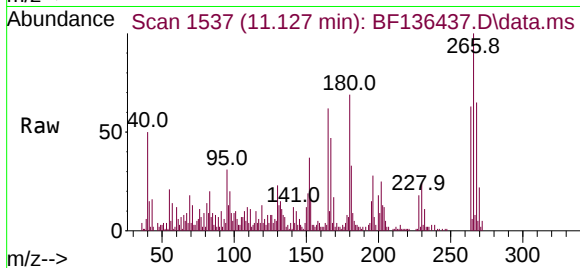
Tgt Ion:266 Resp: 21658

Ion Ratio Lower Upper

266 100

268 65.3 51.0 76.6

264 62.6 52.2 78.4



#71

Phenanthrene

Concen: 15.464 ng

RT: 11.345 min Scan# 1574

Delta R.T. -0.006 min

Lab File: BF136437.D

Acq: 06 Dec 2023 19:52

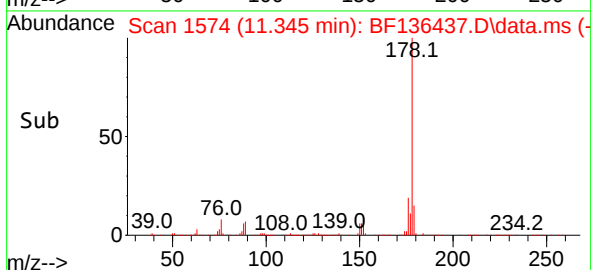
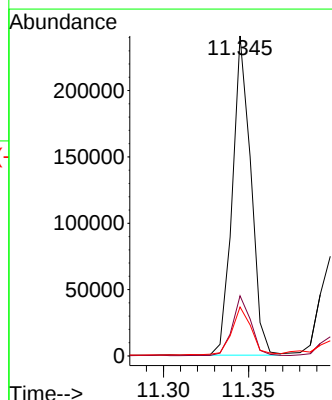
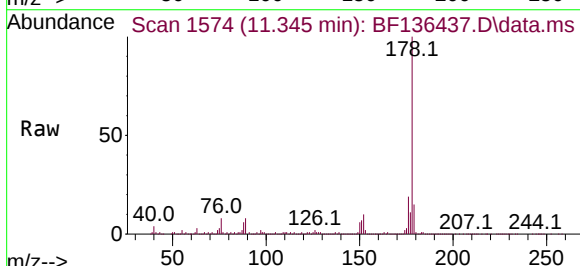
Tgt Ion:178 Resp: 181978

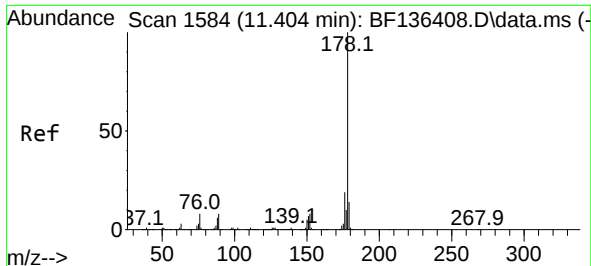
Ion Ratio Lower Upper

178 100

176 18.8 15.9 23.9

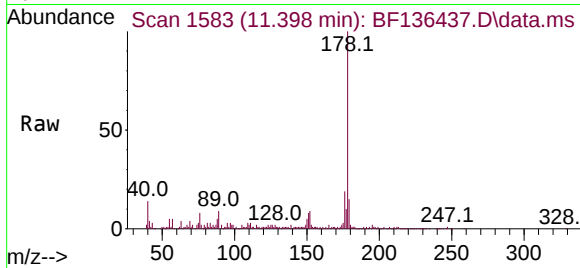
179 15.3 11.8 17.6



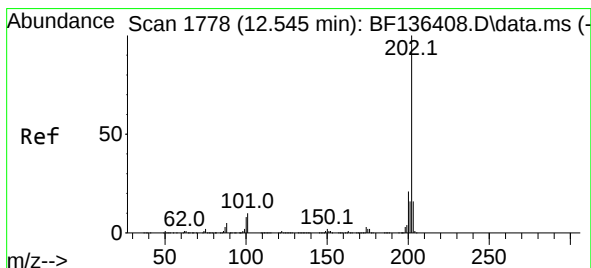
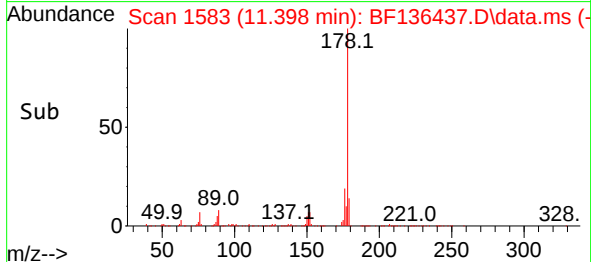
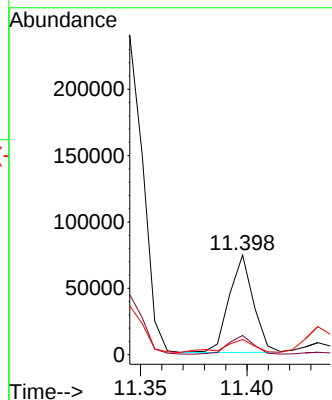


#72
 Anthracene
 Concen: 4.877 ng
 RT: 11.398 min Scan# 11
 Delta R.T. -0.006 min
 Lab File: BF136437.D
 Acq: 06 Dec 2023 19:52

Instrument :
 BNA_F
 ClientSampleId :

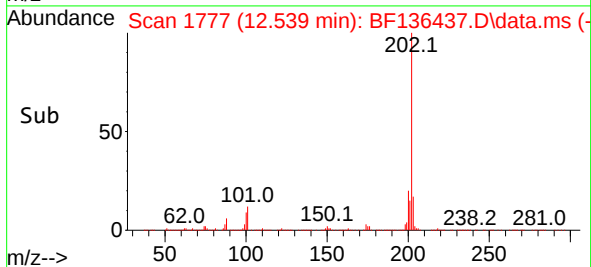
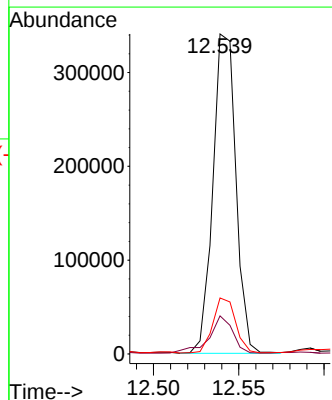
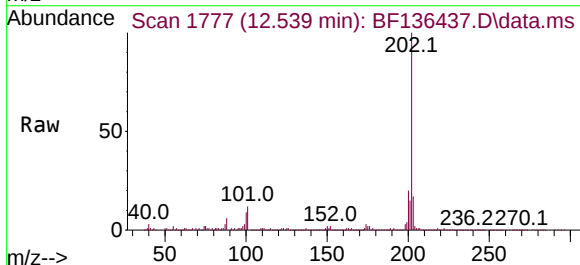


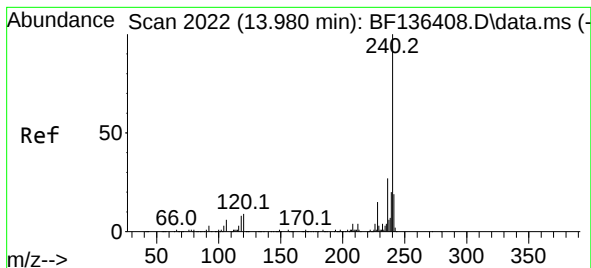
Tgt Ion:178 Resp: 57803
 Ion Ratio Lower Upper
 178 100
 176 19.2 15.3 22.9
 179 15.2 11.4 17.0



#75
 Fluoranthene
 Concen: 25.955 ng
 RT: 12.539 min Scan# 1777
 Delta R.T. -0.006 min
 Lab File: BF136437.D
 Acq: 06 Dec 2023 19:52

Tgt Ion:202 Resp: 320082
 Ion Ratio Lower Upper
 202 100
 101 11.9 0.0 29.9
 203 17.5 0.0 36.3





#76

Chrysene-d12

Concen: 20.000 ng

RT: 13.974 min Scan# 20

Delta R.T. -0.006 min

Lab File: BF136437.D

Acq: 06 Dec 2023 19:52

Instrument :

BNA_F

ClientSampleId :

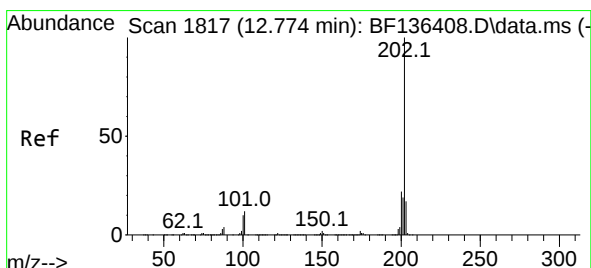
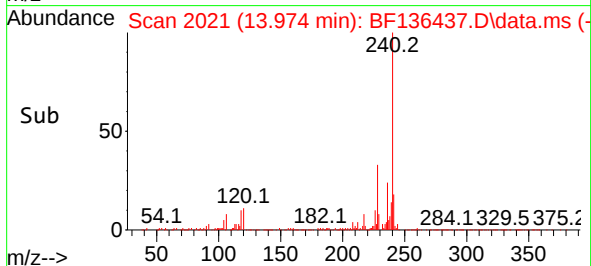
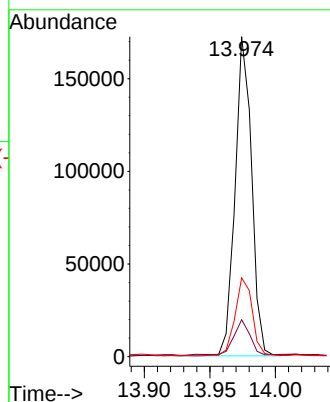
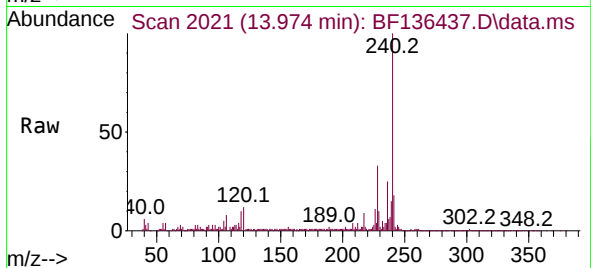
Tgt Ion:240 Resp: 151548

Ion Ratio Lower Upper

240 100

120 11.6 7.3 10.9#

236 24.7 21.3 31.9



#78

Pyrene

Concen: 22.838 ng

RT: 12.774 min Scan# 1817

Delta R.T. -0.000 min

Lab File: BF136437.D

Acq: 06 Dec 2023 19:52

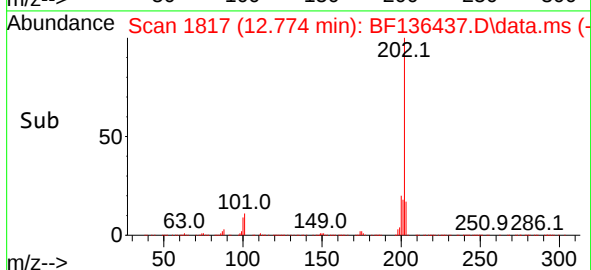
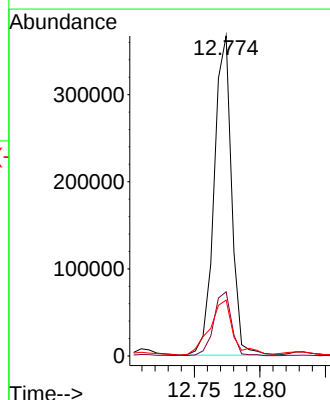
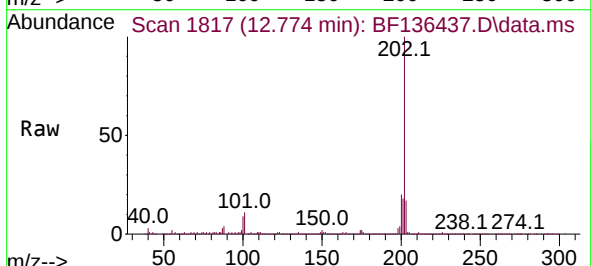
Tgt Ion:202 Resp: 338958

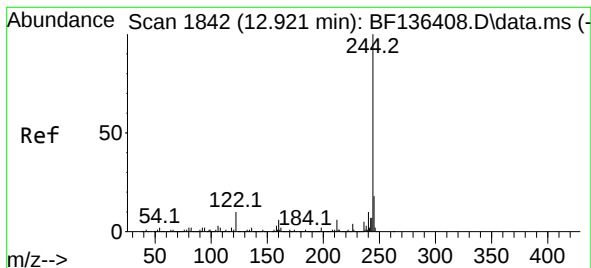
Ion Ratio Lower Upper

202 100

200 20.0 18.0 27.0

203 17.5 13.5 20.3





#79

Terphenyl-d14

Concen: 46.715 ng

RT: 12.921 min Scan# 1842

Delta R.T. -0.000 min

Lab File: BF136437.D

Acq: 06 Dec 2023 19:52

Instrument :

BNA_F

ClientSampleId :

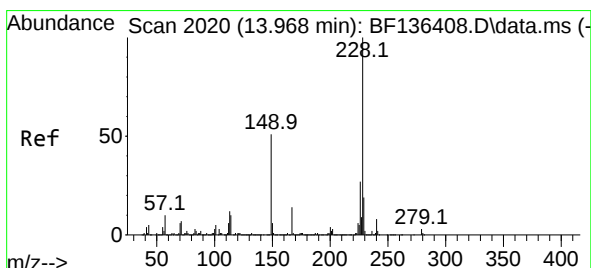
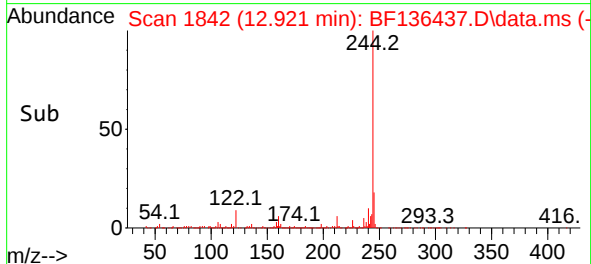
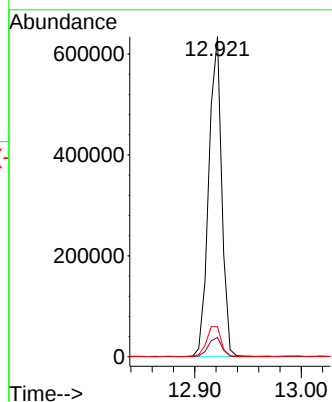
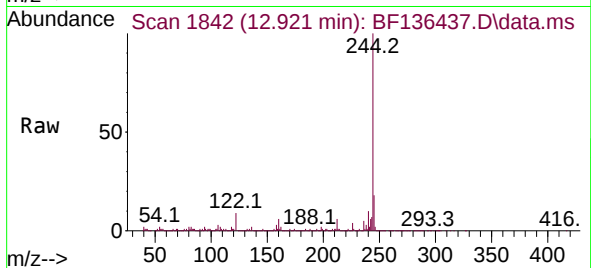
Tgt Ion:244 Resp: 537121

Ion Ratio Lower Upper

244 100

212 6.0 5.0 7.4

122 9.4 8.3 12.5



#81

Benzo(a)anthracene

Concen: 15.011 ng

RT: 13.968 min Scan# 2020

Delta R.T. -0.000 min

Lab File: BF136437.D

Acq: 06 Dec 2023 19:52

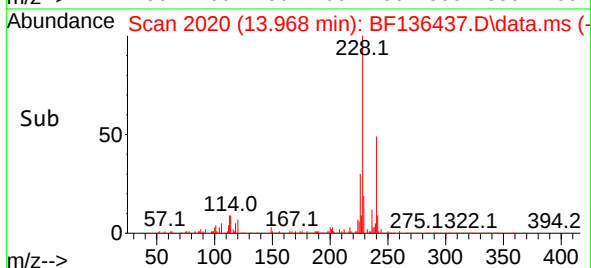
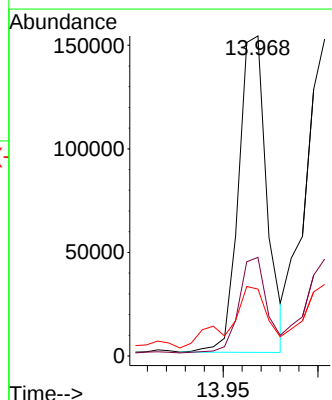
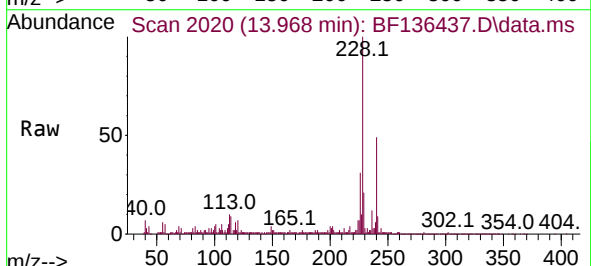
Tgt Ion:228 Resp: 158462

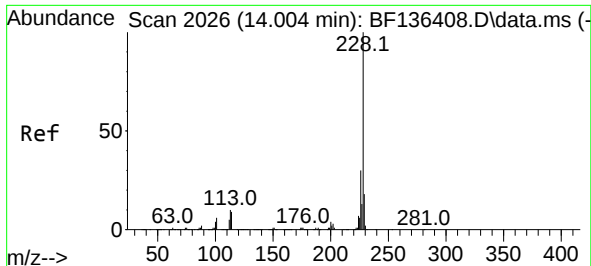
Ion Ratio Lower Upper

228 100

226 30.8 21.8 32.8

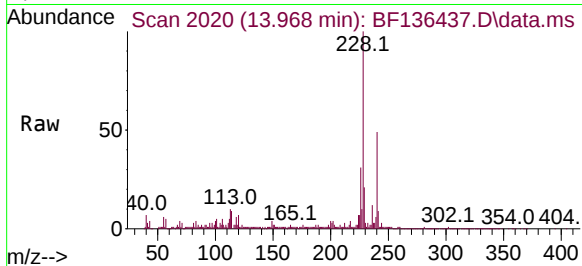
229 20.9 15.0 22.4



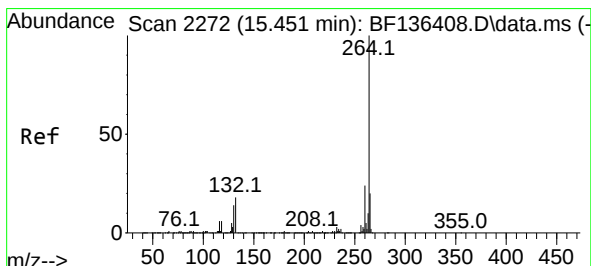
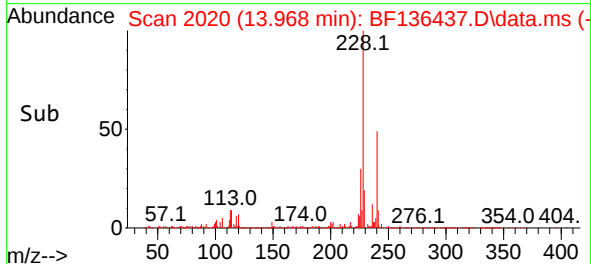
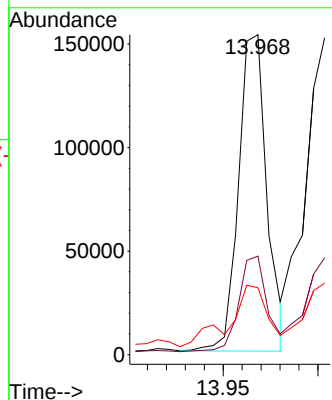


#83
Chrysene
Concen: 15.257 ng
RT: 13.968 min Scan# 20
Delta R.T. -0.035 min
Lab File: BF136437.D
Acq: 06 Dec 2023 19:52

Instrument :
BNA_F
ClientSampleId :

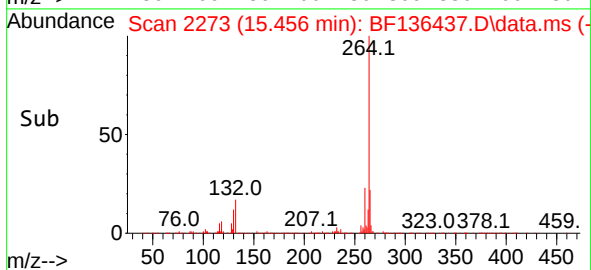
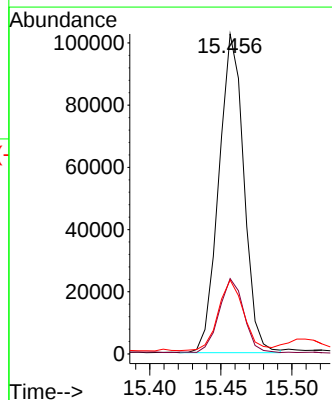
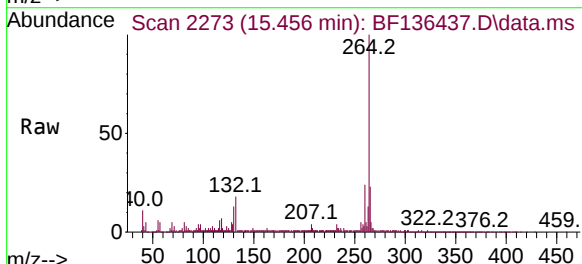


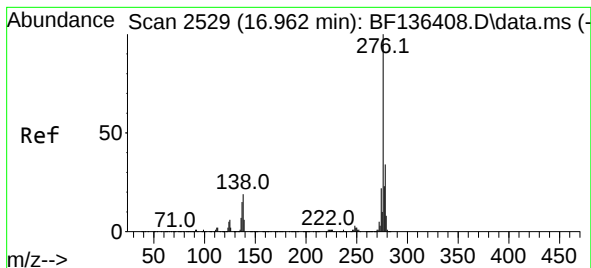
Tgt Ion:228 Resp: 158462
Ion Ratio Lower Upper
228 100
226 30.8 23.8 35.6
229 20.9 14.8 22.2



#86
Perylene-d12
Concen: 20.000 ng
RT: 15.456 min Scan# 2273
Delta R.T. 0.006 min
Lab File: BF136437.D
Acq: 06 Dec 2023 19:52

Tgt Ion:264 Resp: 125511
Ion Ratio Lower Upper
264 100
260 23.6 19.2 28.8
265 23.1 15.9 23.9





#87

Indeno(1,2,3-cd)pyrene

Concen: 6.768 ng

RT: 16.956 min Scan# 21

Delta R.T. -0.006 min

Lab File: BF136437.D

Acq: 06 Dec 2023 19:52

Instrument :

BNA_F

ClientSampleId :

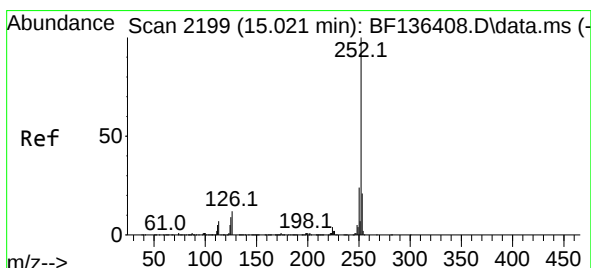
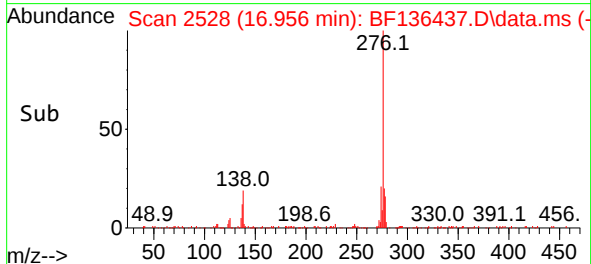
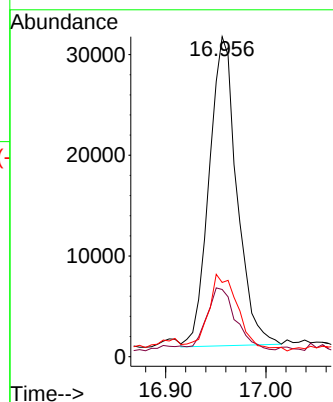
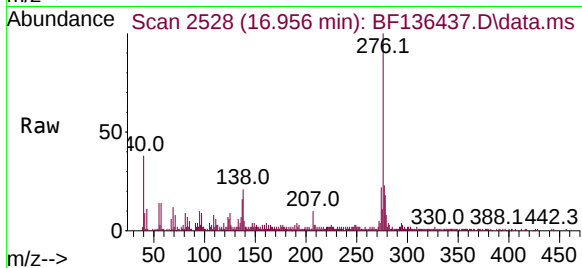
Tgt Ion:276 Resp: 59015

Ion Ratio Lower Upper

276 100

138 21.0 19.0 28.4

277 26.9 20.0 30.0



#88

Benzo(b)fluoranthene

Concen: 23.449 ng

RT: 15.021 min Scan# 2199

Delta R.T. -0.000 min

Lab File: BF136437.D

Acq: 06 Dec 2023 19:52

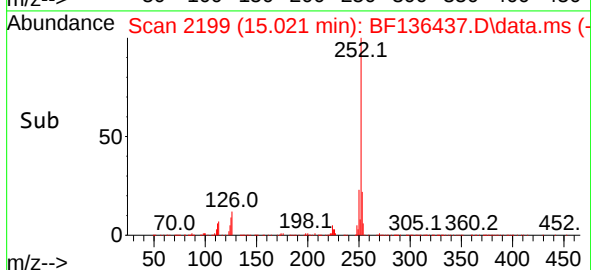
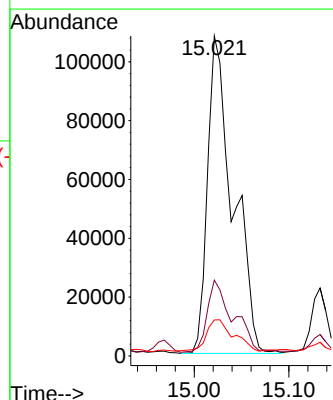
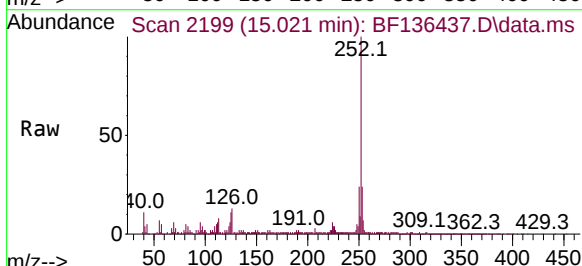
Tgt Ion:252 Resp: 201231

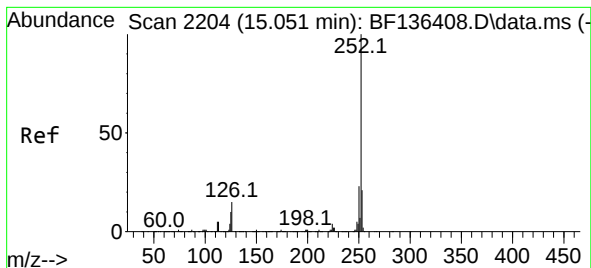
Ion Ratio Lower Upper

252 100

253 23.7 16.9 25.3

125 11.2 7.4 11.2#





#89

Benzo(k)fluoranthene

Concen: 24.882 ng

RT: 15.021 min Scan# 21

Delta R.T. -0.030 min

Lab File: BF136437.D

Acq: 06 Dec 2023 19:52

Instrument :

BNF

ClientSampleId :

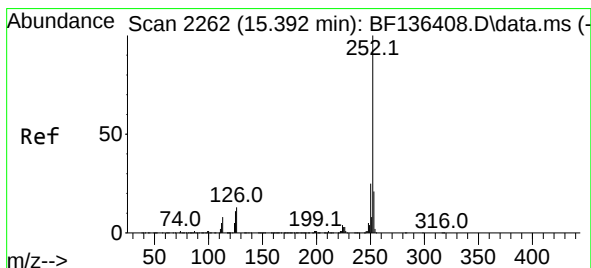
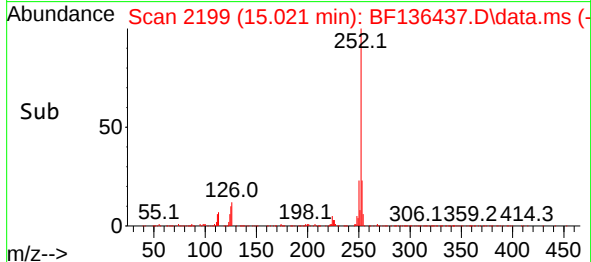
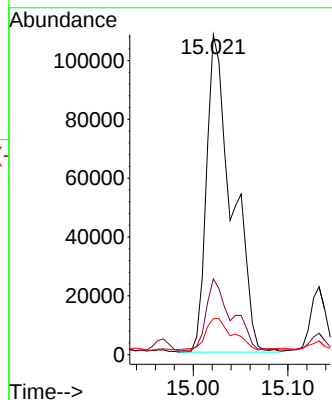
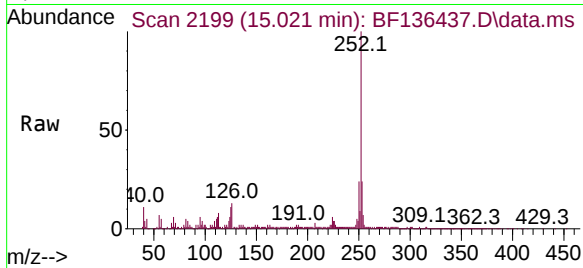
Tgt Ion:252 Resp: 201231

Ion Ratio Lower Upper

252 100

253 23.7 16.9 25.3

125 11.2 7.5 11.3



#90

Benzo(a)pyrene

Concen: 14.950 ng

RT: 15.392 min Scan# 2262

Delta R.T. -0.000 min

Lab File: BF136437.D

Acq: 06 Dec 2023 19:52

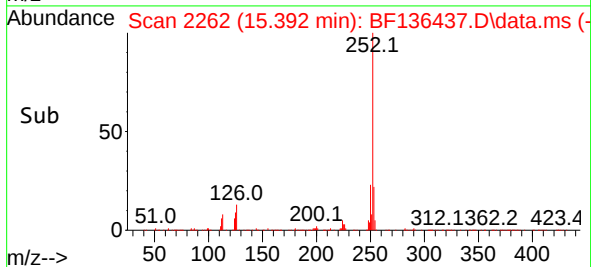
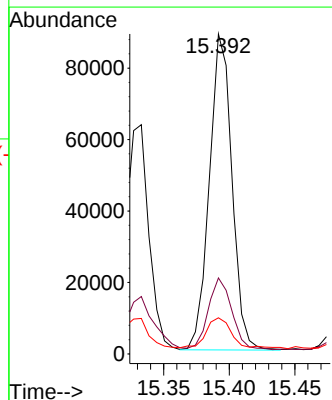
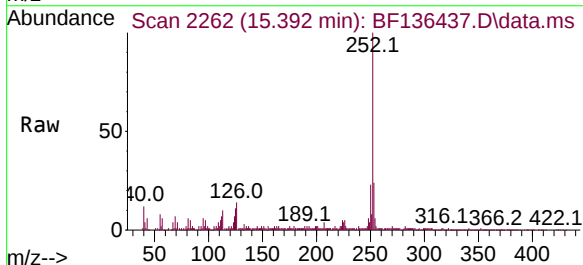
Tgt Ion:252 Resp: 105953

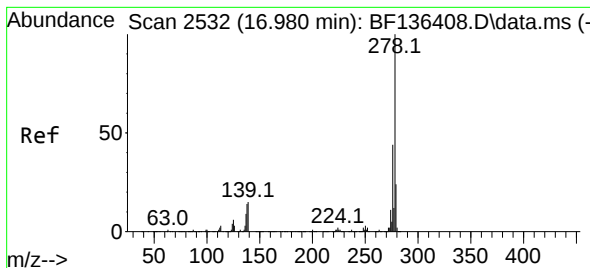
Ion Ratio Lower Upper

252 100

253 23.8 17.0 25.4

125 11.3 8.6 13.0





#91

Dibenzo(a,h)anthracene

Concen: 2.374 ng

RT: 16.974 min Scan# 21

Delta R.T. -0.006 min

Lab File: BF136437.D

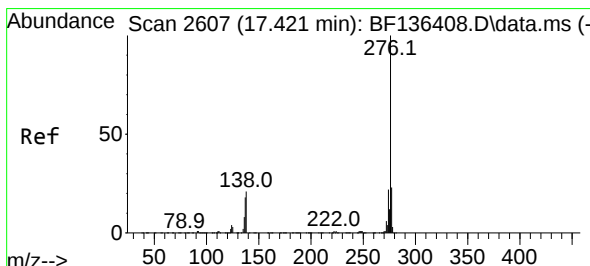
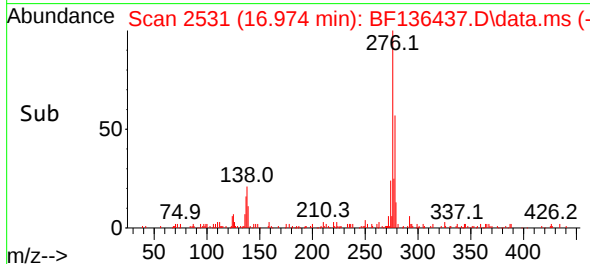
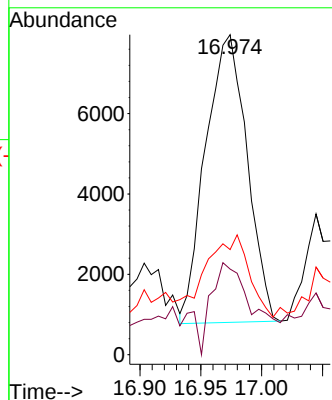
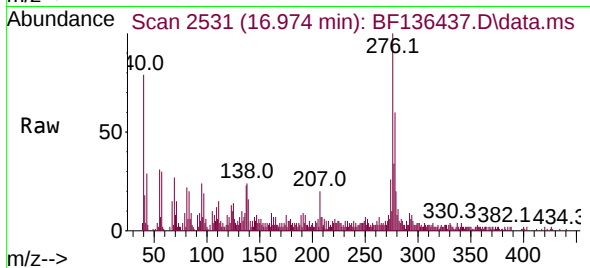
Acq: 06 Dec 2023 19:52

Instrument :

BNA_F

ClientSampleId :

Tgt Ion:278	Resp:	16955	
Ion	Ratio	Lower	Upper
278	100		
139	26.7	12.2	18.4#
279	32.9	19.0	28.4#



#92

Benzo(g,h,i)perylene

Concen: 7.912 ng

RT: 17.415 min Scan# 2606

Delta R.T. -0.006 min

Lab File: BF136437.D

Acq: 06 Dec 2023 19:52

Tgt Ion:276	Resp:	58007	
Ion	Ratio	Lower	Upper
276	100		
277	25.6	18.7	28.1
138	24.2	16.6	25.0

