

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF083023\
 Data File : BF135031.D
 Acq On : 31 Aug 2023 05:33
 Operator : CG\JU
 Sample : 04147-04DL2 200X
 Misc :
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SB-04(21.5-23)DL2

Quant Time: Aug 31 06:02:45 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF083023.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Aug 31 03:48:08 2023
 Response via : Initial Calibration

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

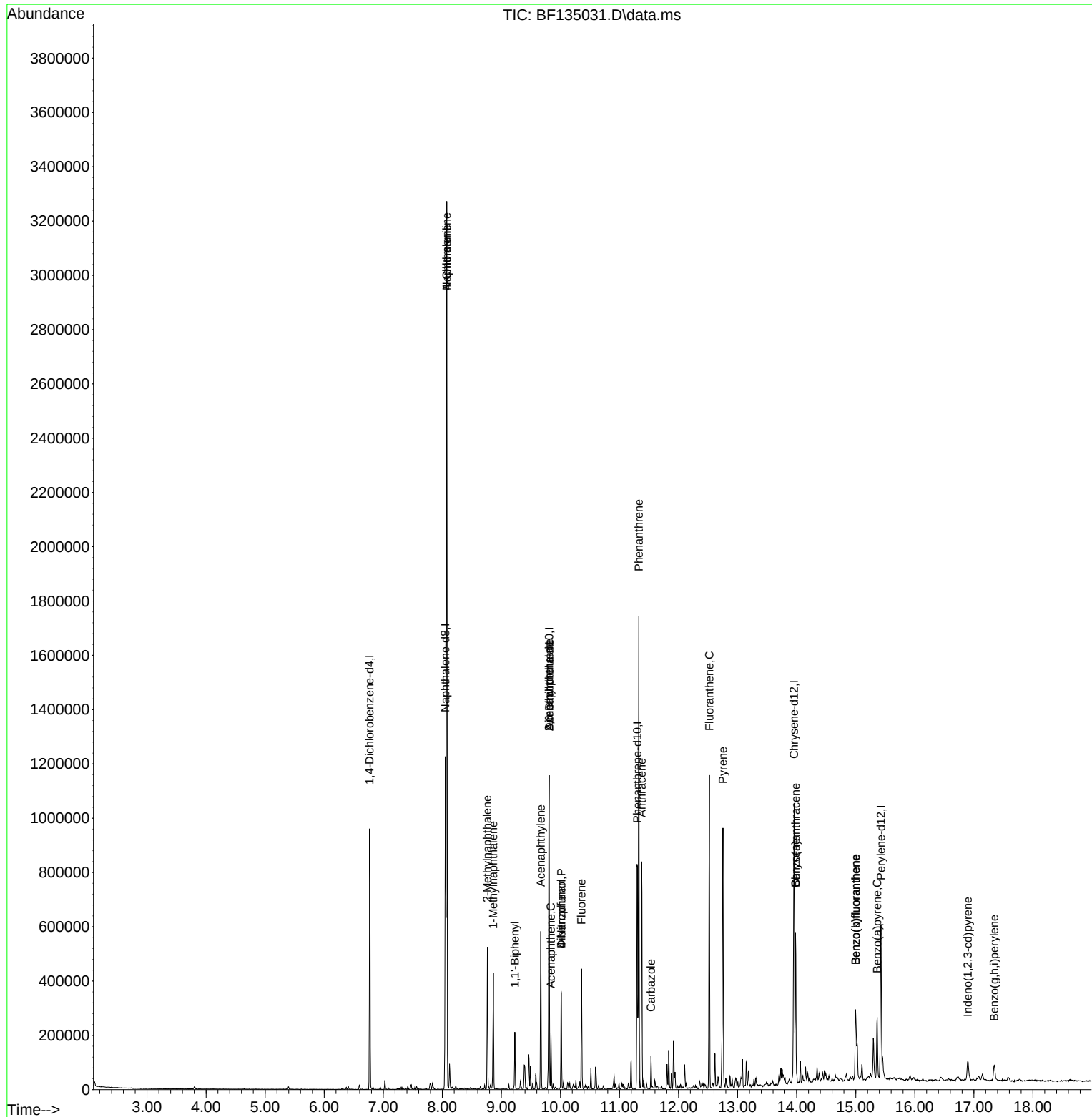
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.769	152	132667	20.000	ng	0.00
21) Naphthalene-d8	8.051	136	506561	20.000	ng	0.00
39) Acenaphthene-d10	9.810	164	225968	20.000	ng	0.00
64) Phenanthrene-d10	11.304	188	325766	20.000	ng	0.00
76) Chrysene-d12	13.957	240	259945	20.000	ng	0.00
86) Perylene-d12	15.427	264	250855	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.398	112	3220	0.375	ng	0.00
7) Phenol-d6	6.404	99	4162	0.389	ng	-0.01
23) Nitrobenzene-d5	7.328	82	2252	0.250	ng	-0.02
42) 2,4,6-Tribromophenol	10.598	330	656	0.274	ng	-0.01
45) 2-Fluorobiphenyl	9.128	172	4626	0.333	ng	-0.01
79) Terphenyl-d14	12.898	244	3509	0.220	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.075	128	1324283	53.517	ng	99
33) 4-Chloroaniline	8.075	127	174795	16.150	ng	# 32
37) 2-Methylnaphthalene	8.763	142	122573	7.424	ng	96
38) 1-Methylnaphthalene	8.863	142	97700	6.324	ng	98
46) 1,1'-Biphenyl	9.228	154	56485	3.272	ng	99
49) Acenaphthylene	9.669	152	204497	10.420	ng	98
50) Dimethylphthalate	9.810	163	47092	2.976	ng	# 1
51) 2,6-Dinitrotoluene	9.810	165	32207	9.277	ng	# 21
52) Acenaphthene	9.839	154	37291	2.982	ng	99
55) Dibenzofuran	10.016	168	137157	7.602	ng	98
56) 4-Nitrophenol	10.016	139	51657	18.171	ng	# 9
58) Fluorene	10.357	166	106378	7.734	ng	99
71) Phenanthrene	11.327	178	596935	35.518	ng	98
72) Anthracene	11.374	178	318145	18.528	ng	98
73) Carbazole	11.533	167	41795	2.822	ng	99
75) Fluoranthene	12.521	202	419932	24.713	ng	98
78) Pyrene	12.751	202	370637	15.017	ng	100
81) Benzo(a)anthracene	13.980	228	201278	11.351	ng	95
83) Chrysene	13.980	228	201278	11.550	ng	98
87) Indeno(1,2,3-cd)pyrene	16.898	276	49861	2.951	ng	98
88) Benzo(b)fluoranthene	14.998	252	188644	12.086	ng	99
89) Benzo(k)fluoranthene	14.998	252	188644	12.510	ng	98
90) Benzo(a)pyrene	15.362	252	103228	7.119	ng	96
92) Benzo(g,h,i)perylene	17.345	276	45708	3.211	ng	95

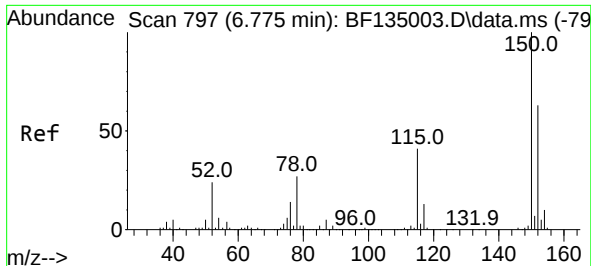
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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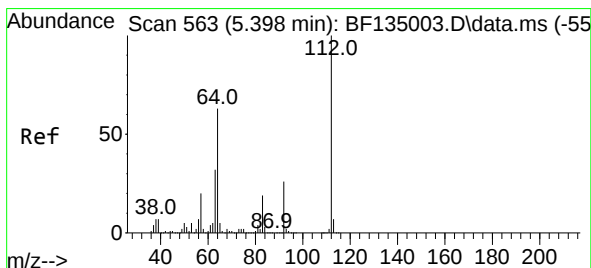
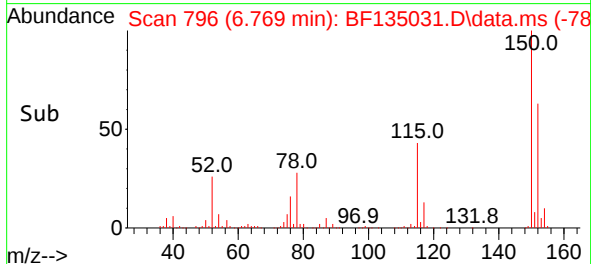
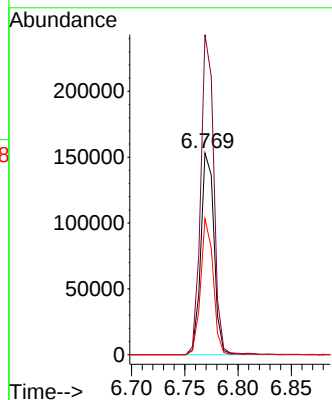
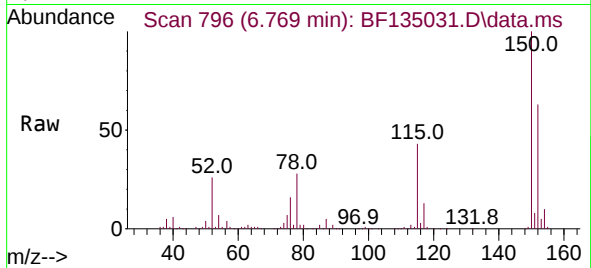




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.769 min Scan# 797
Delta R.T. -0.006 min
Lab File: BF135031.D
Acq: 31 Aug 2023 05:33

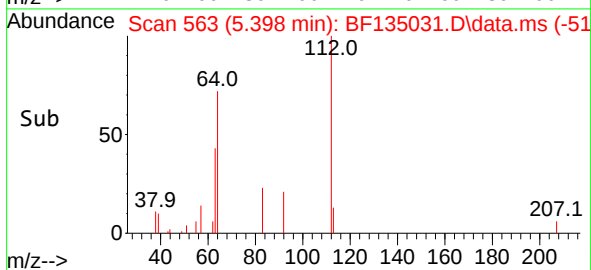
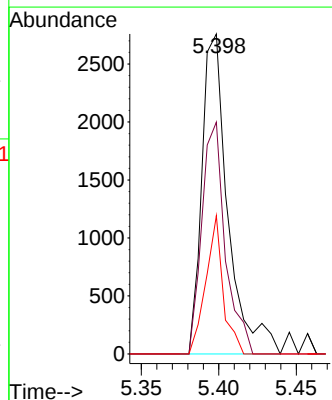
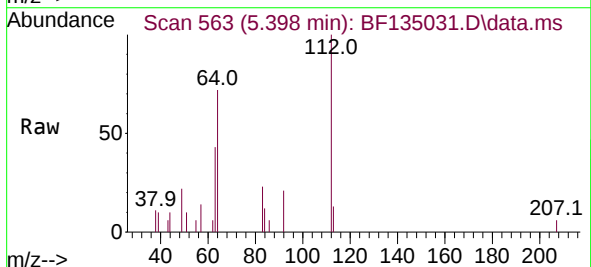
Instrument :
BNA_F
ClientSampleId :
SB-04(21.5-23)DL2

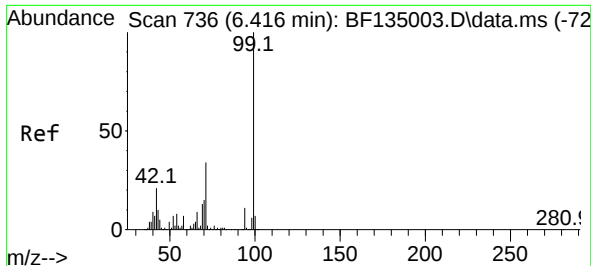
Tgt Ion:152 Resp: 132667
Ion Ratio Lower Upper
152 100
150 158.7 126.2 189.4
115 67.5 51.2 76.8



#5
2-Fluorophenol
Concen: 0.375 ng
RT: 5.398 min Scan# 563
Delta R.T. 0.000 min
Lab File: BF135031.D
Acq: 31 Aug 2023 05:33

Tgt Ion:112 Resp: 3220
Ion Ratio Lower Upper
112 100
64 72.5 50.5 75.7
63 43.2 25.9 38.9#

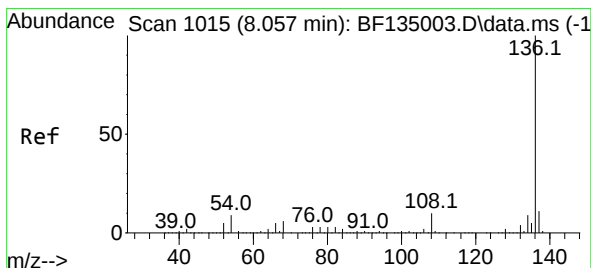
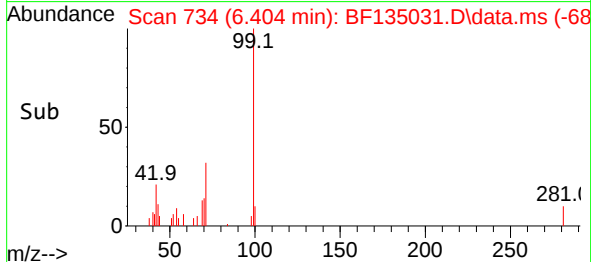
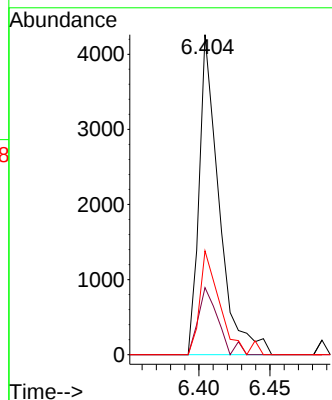
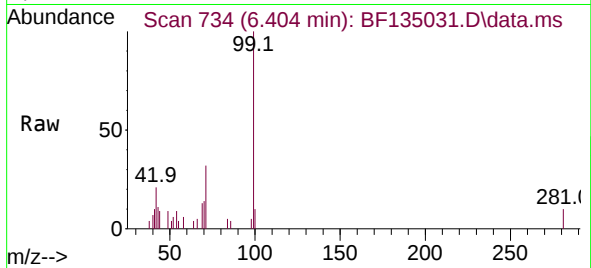




#7
Phenol-d6
Concen: 0.389 ng
RT: 6.404 min Scan# 71
Delta R.T. -0.012 min
Lab File: BF135031.D
Acq: 31 Aug 2023 05:33

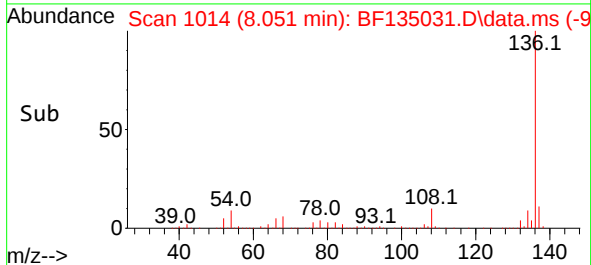
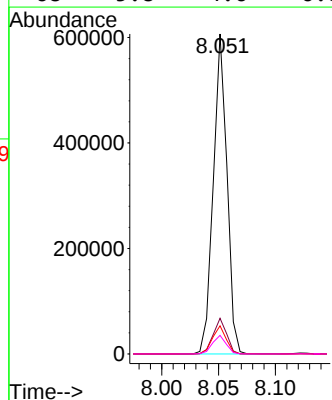
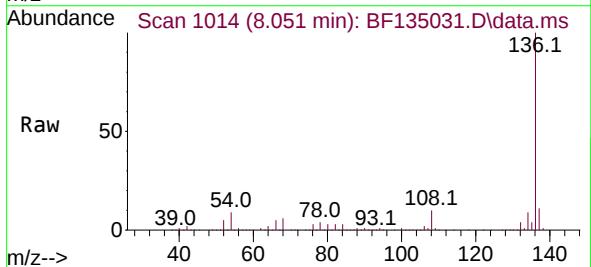
Instrument :
BNA_F
ClientSampleId :
SB-04(21.5-23)DL2

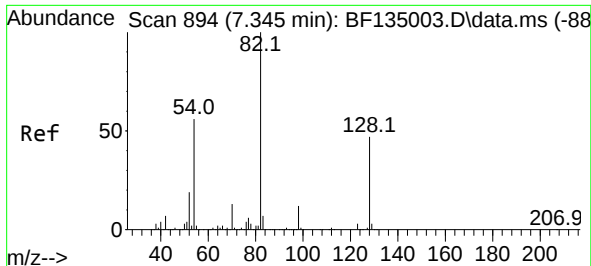
Tgt Ion: 99 Resp: 4162
Ion Ratio Lower Upper
99 100
42 21.0 16.6 25.0
71 32.5 27.0 40.6



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.051 min Scan# 1014
Delta R.T. -0.006 min
Lab File: BF135031.D
Acq: 31 Aug 2023 05:33

Tgt Ion: 136 Resp: 506561
Ion Ratio Lower Upper
136 100
137 11.2 8.8 13.2
54 8.8 7.0 10.4
68 5.8 4.6 6.8





#23

Nitrobenzene-d5

Concen: 0.250 ng

RT: 7.328 min Scan# 891

Delta R.T. -0.018 min

Lab File: BF135031.D

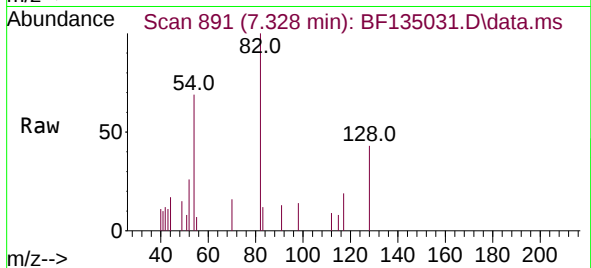
Acq: 31 Aug 2023 05:33

Instrument :

BNA_F

ClientSampleId :

SB-04(21.5-23)DL2



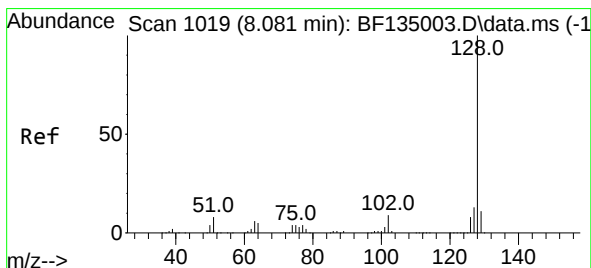
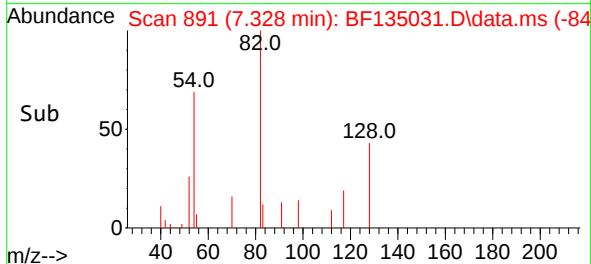
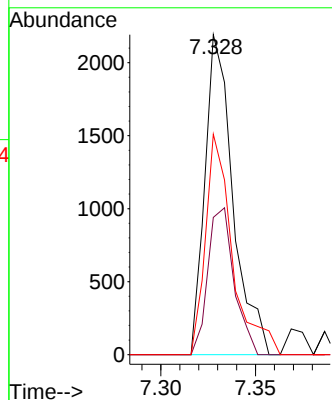
Tgt Ion: 82 Resp: 2252

Ion Ratio Lower Upper

82 100

128 42.9 37.8 56.8

54 68.9 45.0 67.6#



#31

Naphthalene

Concen: 53.517 ng

RT: 8.075 min Scan# 1018

Delta R.T. -0.006 min

Lab File: BF135031.D

Acq: 31 Aug 2023 05:33

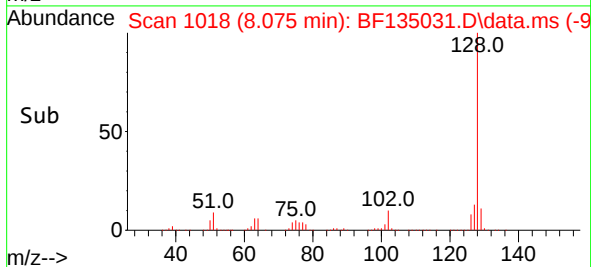
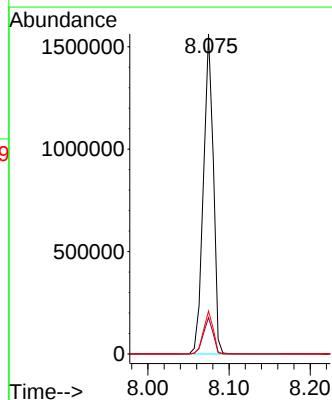
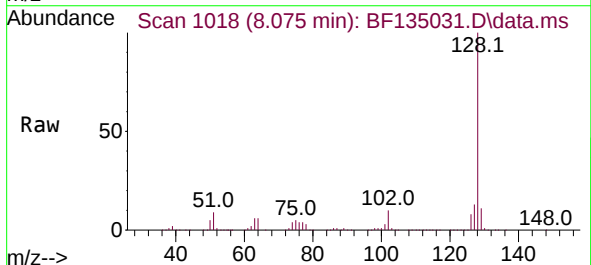
Tgt Ion:128 Resp: 1324283

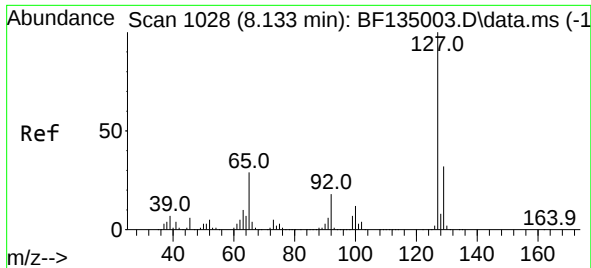
Ion Ratio Lower Upper

128 100

129 11.4 8.6 13.0

127 13.4 10.6 16.0

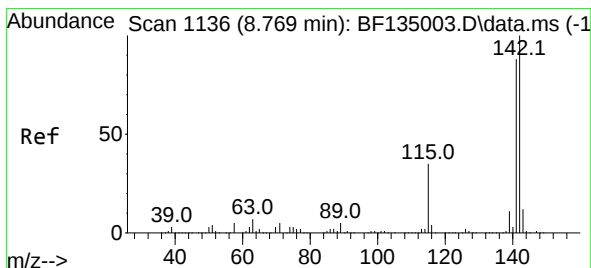
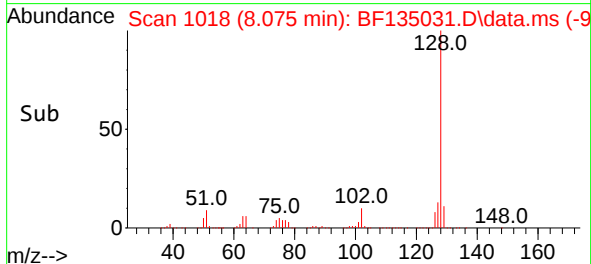
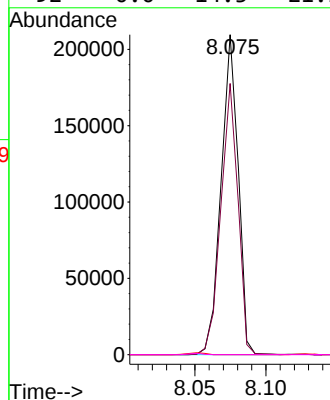
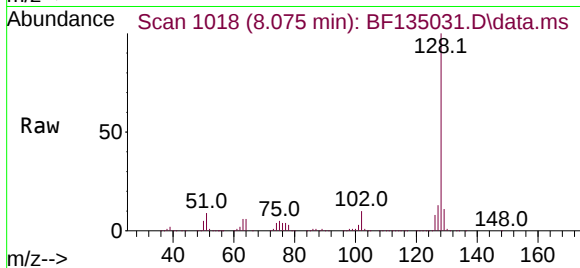




#33
4-Chloroaniline
Concen: 16.150 ng
RT: 8.075 min Scan# 110
Delta R.T. -0.059 min
Lab File: BF135031.D
Acq: 31 Aug 2023 05:33

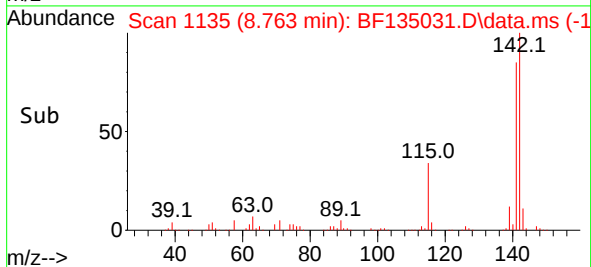
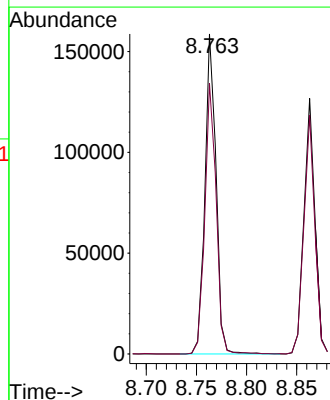
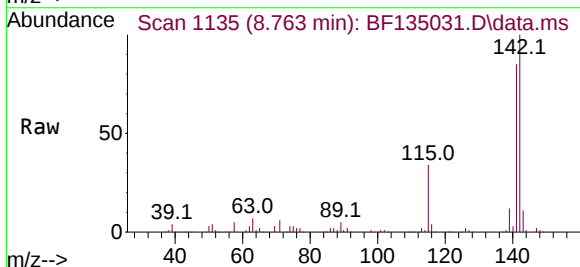
Instrument :
BNA_F
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SB-04(21.5-23)DL2

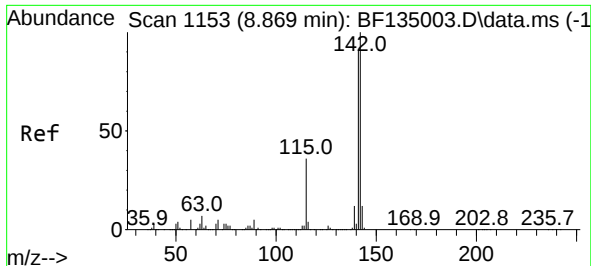
Tgt Ion:127	Resp: 174795
Ion Ratio	Lower Upper
127 100	
129 84.8	25.6 38.4#
65 0.0	23.1 34.7#
92 0.0	14.3 21.5#



#37
2-Methylnaphthalene
Concen: 7.424 ng
RT: 8.763 min Scan# 1135
Delta R.T. -0.006 min
Lab File: BF135031.D
Acq: 31 Aug 2023 05:33

Tgt Ion:142	Resp: 122573
Ion Ratio	Lower Upper
142 100	
141 84.6	70.7 106.1





#38

1-Methylnaphthalene

Concen: 6.324 ng

RT: 8.863 min Scan# 1153

Delta R.T. -0.006 min

Lab File: BF135031.D

Acq: 31 Aug 2023 05:33

Instrument :

BNA_F

ClientSampleId :

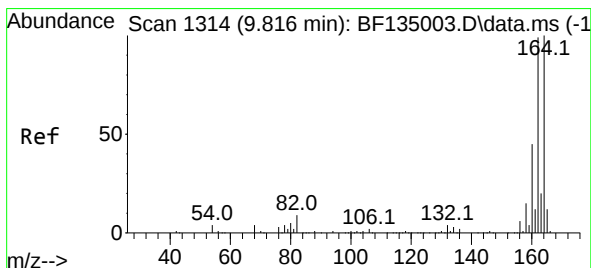
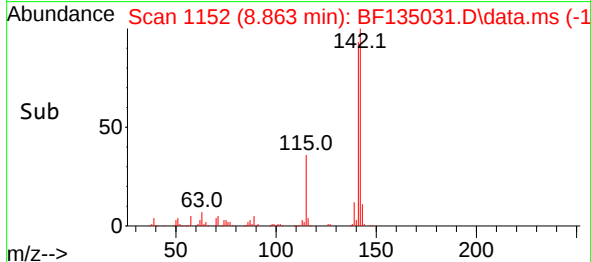
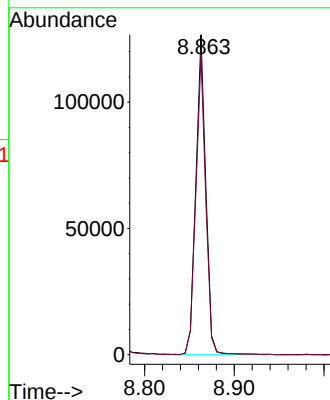
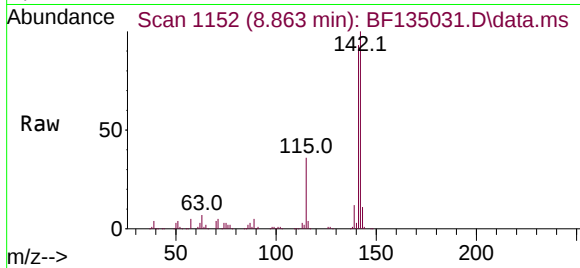
SB-04(21.5-23)DL2

Tgt Ion:142 Resp: 97700

Ion Ratio Lower Upper

142 100

141 93.4 73.0 109.4



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.810 min Scan# 1313

Delta R.T. -0.006 min

Lab File: BF135031.D

Acq: 31 Aug 2023 05:33

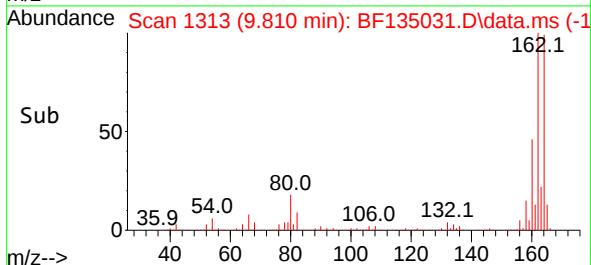
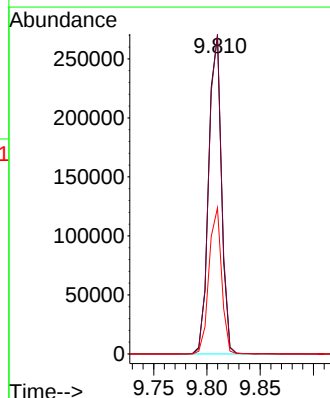
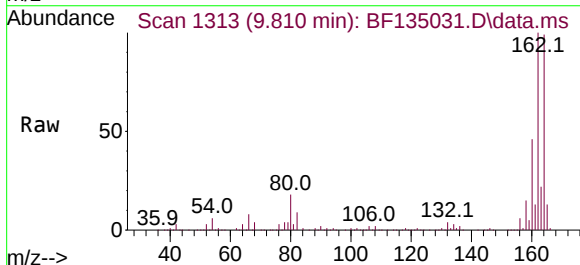
Tgt Ion:164 Resp: 225968

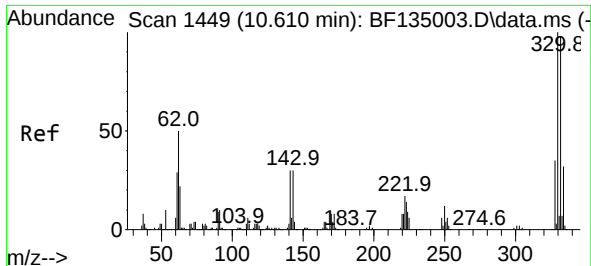
Ion Ratio Lower Upper

164 100

162 100.5 79.5 119.3

160 45.9 36.0 54.0





#42

2,4,6-Tribromophenol

Concen: 0.274 ng

RT: 10.598 min Scan# 1447

Delta R.T. -0.012 min

Lab File: BF135031.D

Acq: 31 Aug 2023 05:33

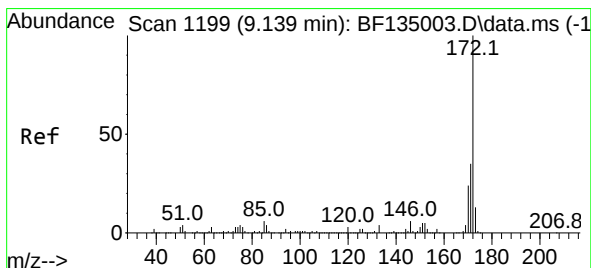
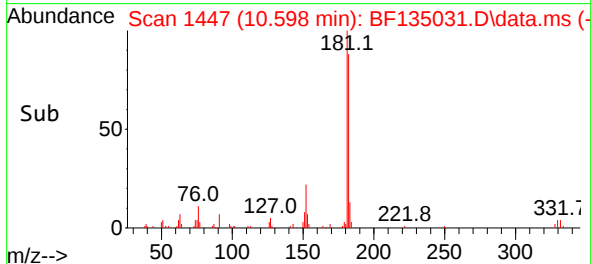
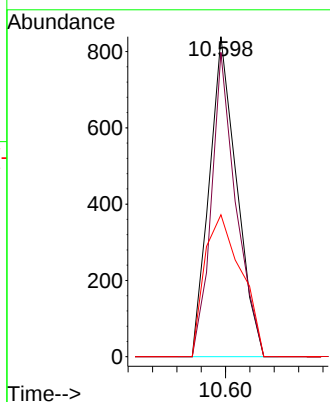
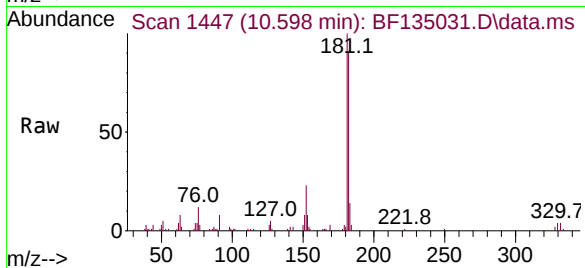
Instrument :

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ClientSampleId :

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Tgt Ion:330	Resp:	656
Ion Ratio	Lower	Upper
330	100	
332	85.5	77.6 116.4
141	59.1	26.3 39.5#



#45

2-Fluorobiphenyl

Concen: 0.333 ng

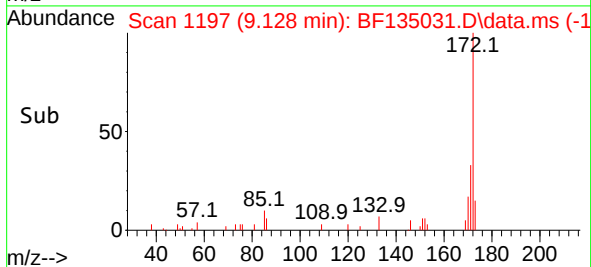
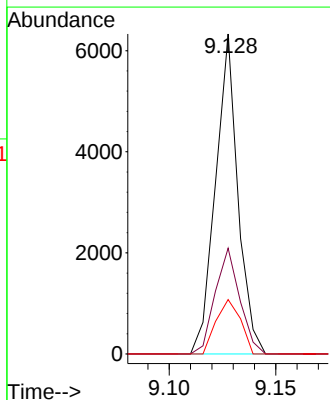
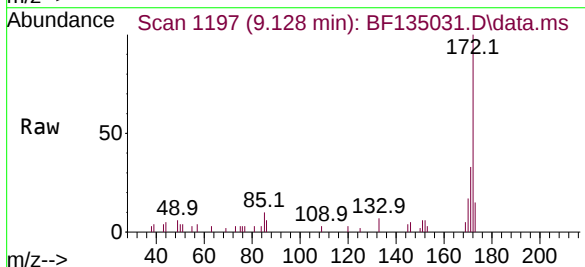
RT: 9.128 min Scan# 1197

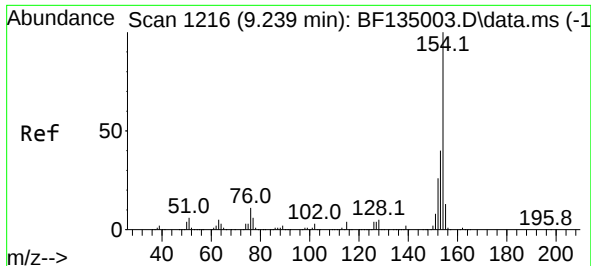
Delta R.T. -0.012 min

Lab File: BF135031.D

Acq: 31 Aug 2023 05:33

Tgt Ion:172	Resp:	4626
Ion Ratio	Lower	Upper
172	100	
171	33.0	28.2 42.2
170	17.0	19.0 28.4#





#46

1,1'-Biphenyl

Concen: 3.272 ng

RT: 9.228 min Scan# 1

Delta R.T. -0.012 min

Lab File: BF135031.D

Acq: 31 Aug 2023 05:33

Instrument :

BNA_F

ClientSampleId :

SB-04(21.5-23)DL2

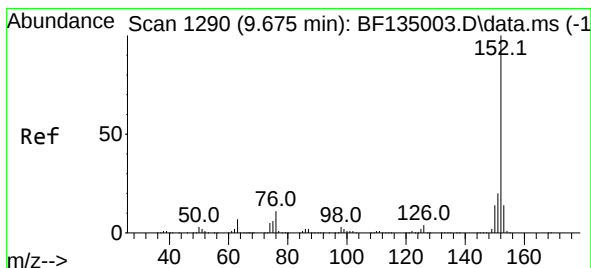
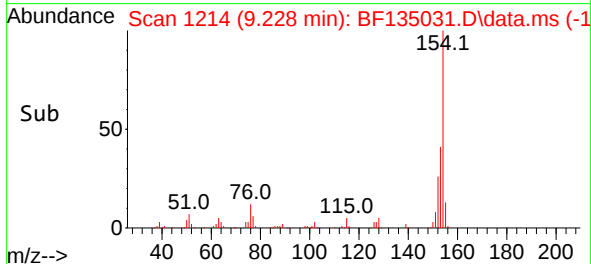
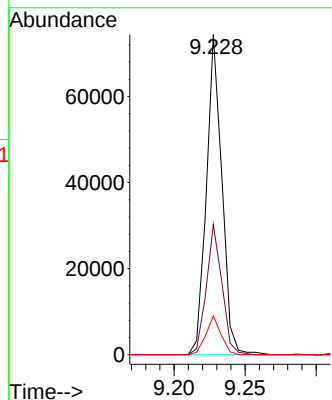
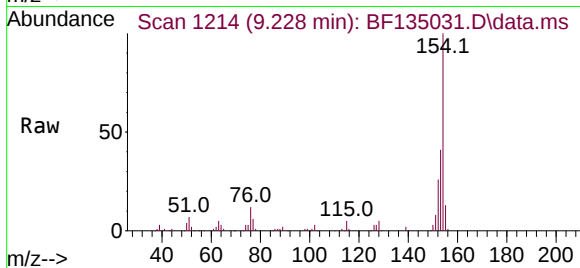
Tgt Ion:154 Resp: 56485

Ion Ratio Lower Upper

154 100

153 40.7 20.2 60.2

76 12.1 0.0 31.2



#49

Acenaphthylene

Concen: 10.420 ng

RT: 9.669 min Scan# 1289

Delta R.T. -0.006 min

Lab File: BF135031.D

Acq: 31 Aug 2023 05:33

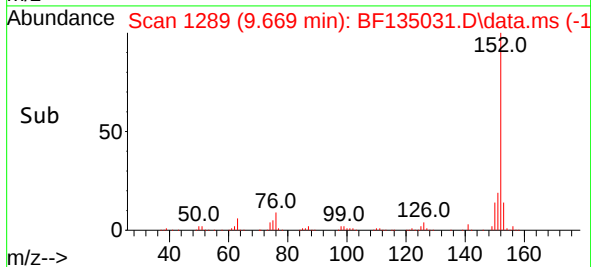
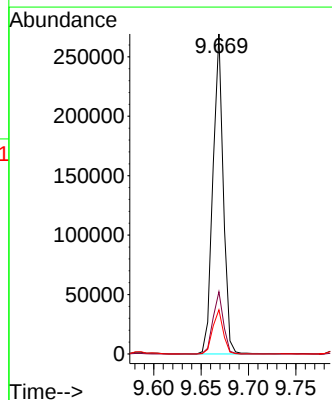
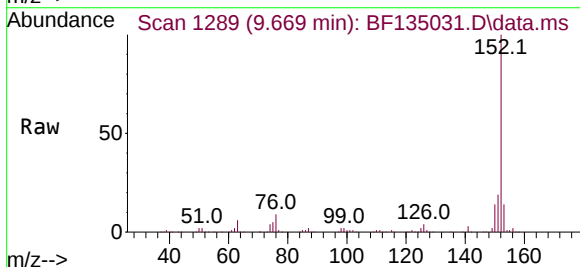
Tgt Ion:152 Resp: 204497

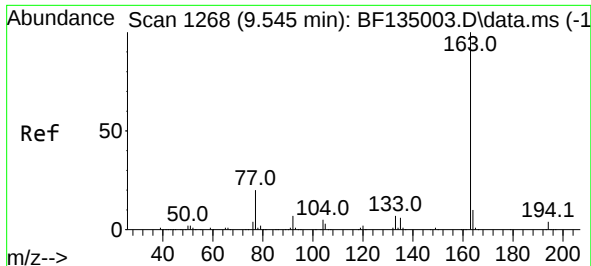
Ion Ratio Lower Upper

152 100

151 19.4 16.2 24.4

153 13.8 11.4 17.0

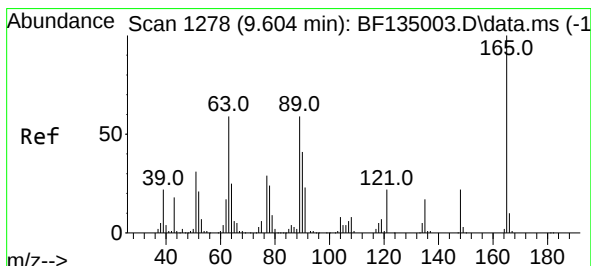
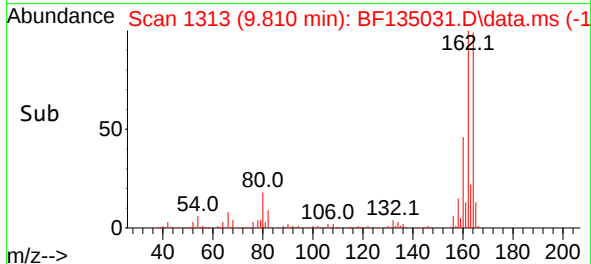
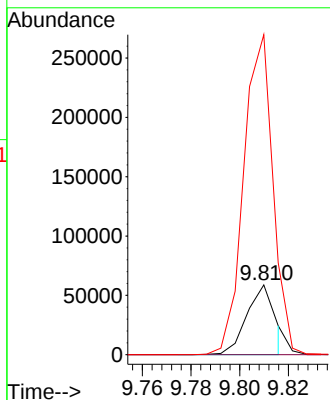
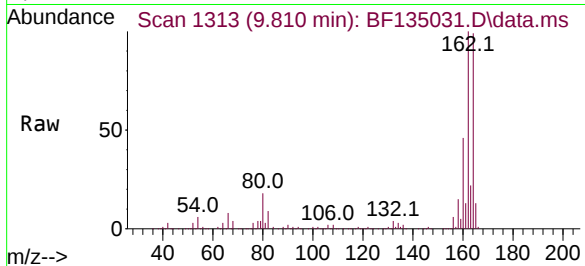




#50
Dimethylphthalate
Concen: 2.976 ng
RT: 9.810 min Scan# 11
Delta R.T. 0.265 min
Lab File: BF135031.D
Acq: 31 Aug 2023 05:33

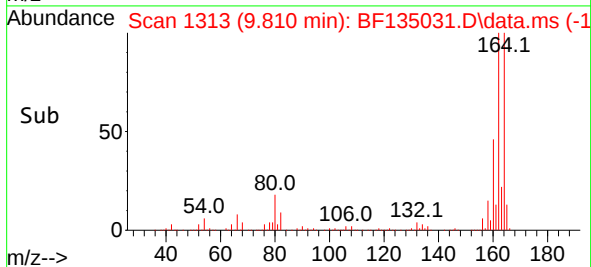
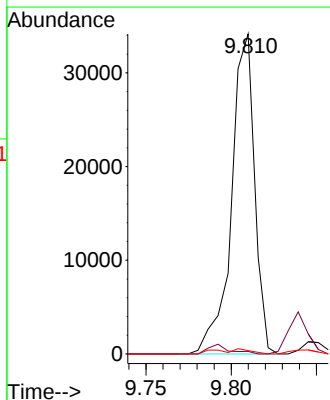
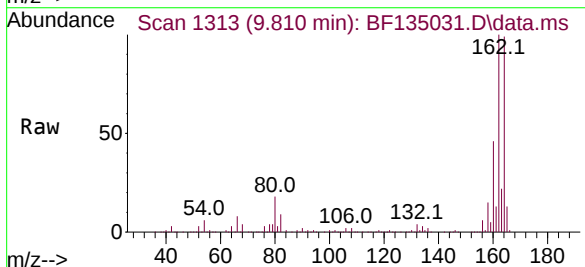
Instrument :
BNA_F
ClientSampleId :
SB-04(21.5-23)DL2

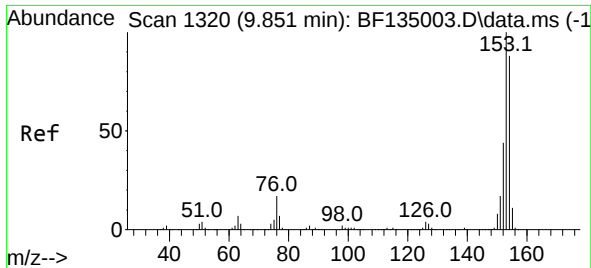
Tgt Ion:163 Resp: 47092
Ion Ratio Lower Upper
163 100
194 0.0 3.0 4.6#
164 459.0 8.1 12.1#



#51
2,6-Dinitrotoluene
Concen: 9.277 ng
RT: 9.810 min Scan# 1313
Delta R.T. 0.206 min
Lab File: BF135031.D
Acq: 31 Aug 2023 05:33

Tgt Ion:165 Resp: 32207
Ion Ratio Lower Upper
165 100
63 0.8 50.4 75.6#
89 1.0 47.1 70.7#

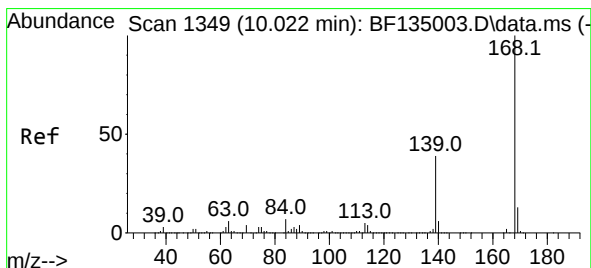
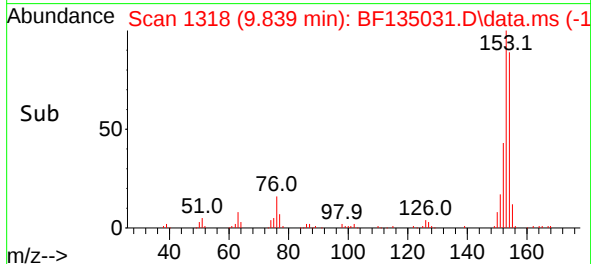
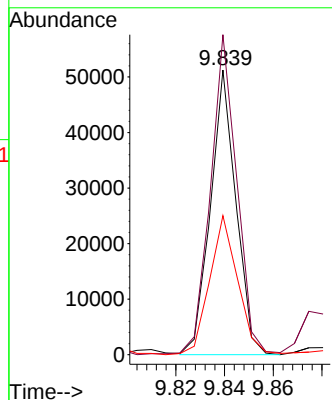
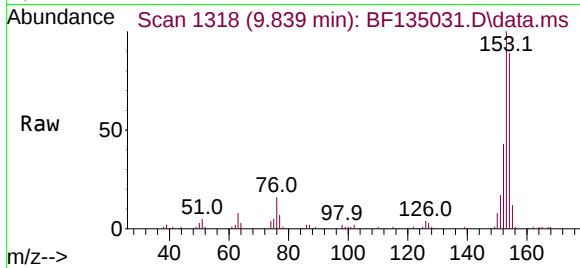




#52
Acenaphthene
Concen: 2.982 ng
RT: 9.839 min Scan# 1318
Delta R.T. -0.012 min
Lab File: BF135031.D
Acq: 31 Aug 2023 05:33

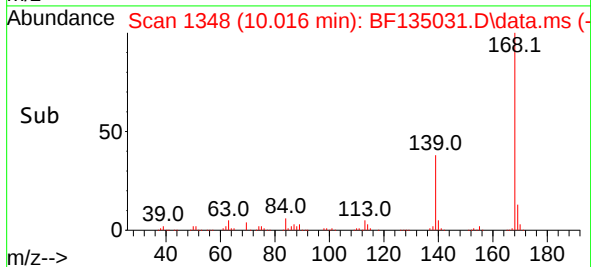
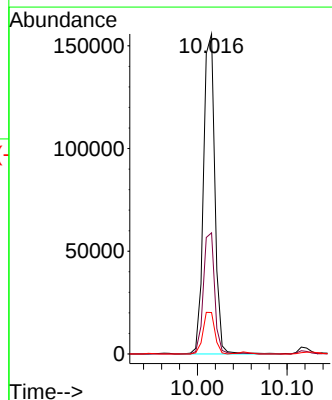
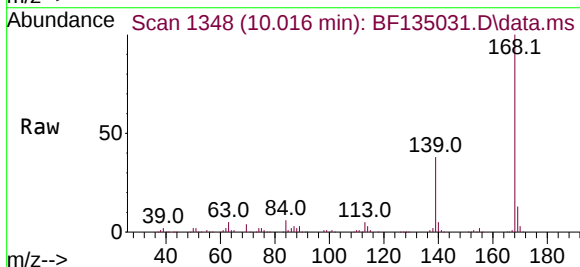
Instrument :
BNA_F
ClientSampleId :
SB-04(21.5-23)DL2

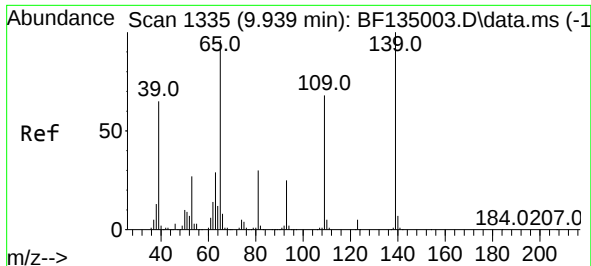
Tgt Ion:154 Resp: 37291
Ion Ratio Lower Upper
154 100
153 112.4 90.8 136.2
152 48.9 40.2 60.4



#55
Dibenzofuran
Concen: 7.602 ng
RT: 10.016 min Scan# 1348
Delta R.T. -0.006 min
Lab File: BF135031.D
Acq: 31 Aug 2023 05:33

Tgt Ion:168 Resp: 137157
Ion Ratio Lower Upper
168 100
139 37.9 31.5 47.3
169 13.0 10.7 16.1

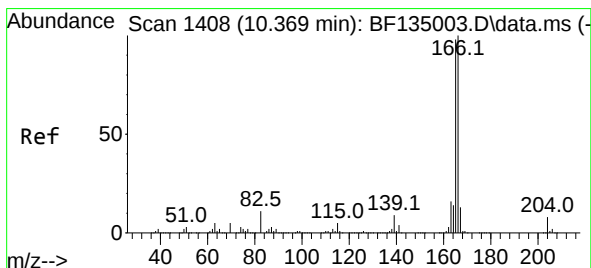
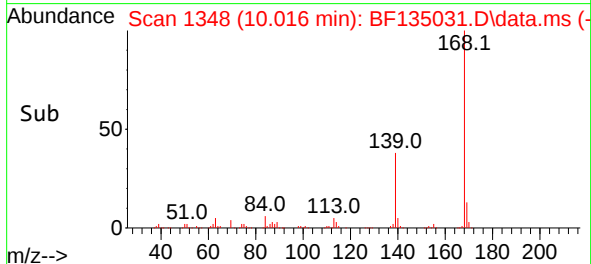
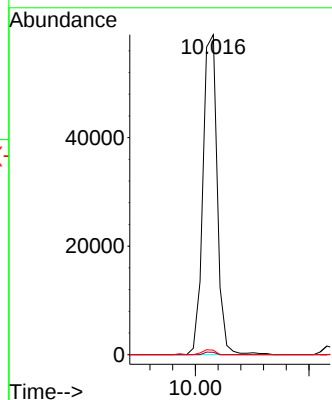
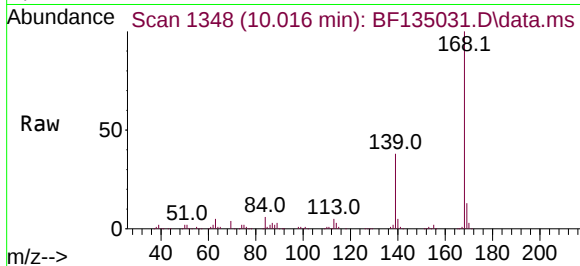




#56
4-Nitrophenol
Concen: 18.171 ng
RT: 10.016 min Scan# 11
Delta R.T. 0.076 min
Lab File: BF135031.D
Acq: 31 Aug 2023 05:33

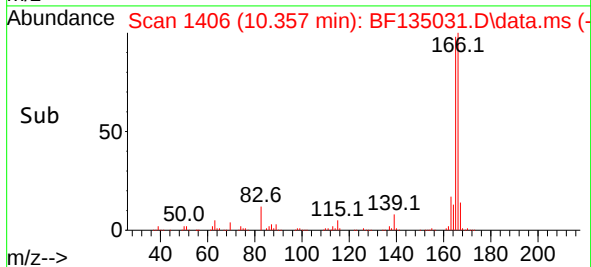
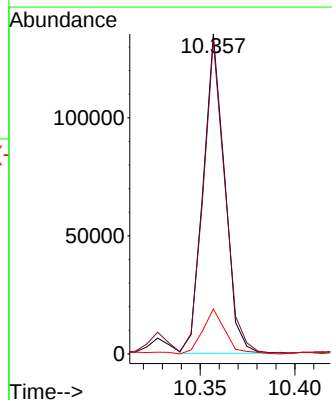
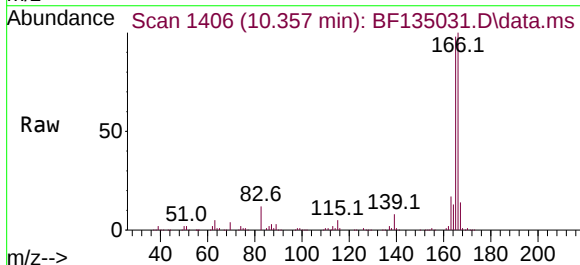
Instrument :
BNA_F
ClientSampleId :
SB-04(21.5-23)DL2

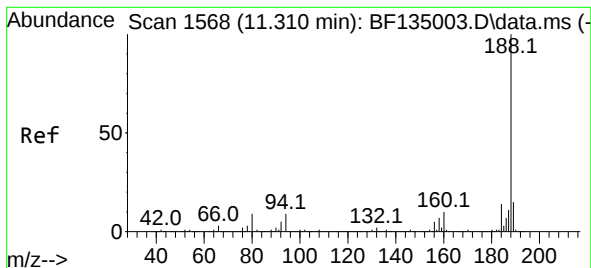
Tgt Ion:139 Resp: 51657
Ion Ratio Lower Upper
139 100
109 0.8 47.7 87.7#
65 1.4 75.9 115.9#



#58
Fluorene
Concen: 7.734 ng
RT: 10.357 min Scan# 1406
Delta R.T. -0.012 min
Lab File: BF135031.D
Acq: 31 Aug 2023 05:33

Tgt Ion:166 Resp: 106378
Ion Ratio Lower Upper
166 100
165 98.0 78.0 117.0
167 14.1 10.8 16.2





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.304 min Scan# 11

Delta R.T. -0.006 min

Lab File: BF135031.D

Acq: 31 Aug 2023 05:33

Instrument :

BNA_F

ClientSampleId :

SB-04(21.5-23)DL2

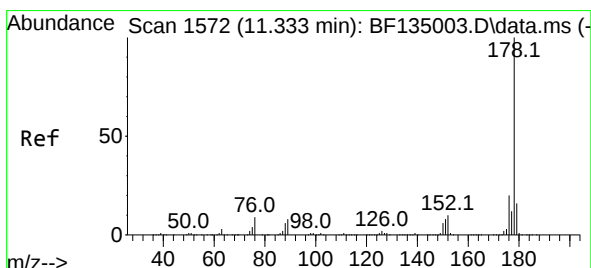
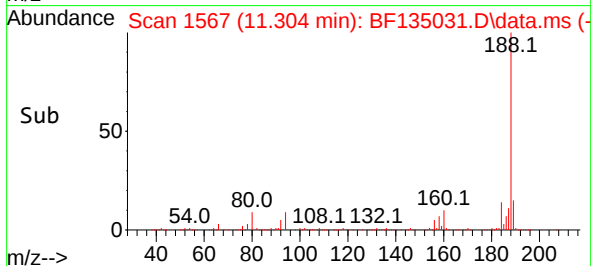
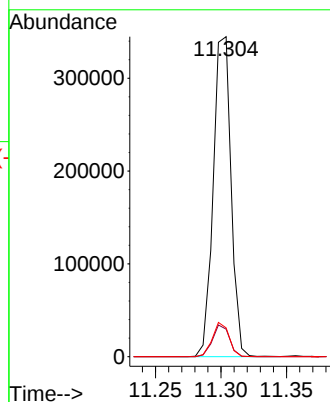
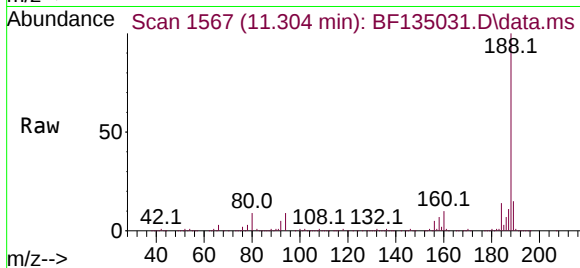
Tgt Ion:188 Resp: 325766

Ion Ratio Lower Upper

188 100

94 8.6 7.0 10.4

80 9.0 7.4 11.2



#71

Phenanthrene

Concen: 35.518 ng

RT: 11.327 min Scan# 1571

Delta R.T. -0.006 min

Lab File: BF135031.D

Acq: 31 Aug 2023 05:33

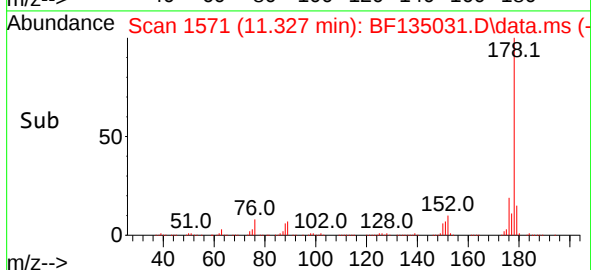
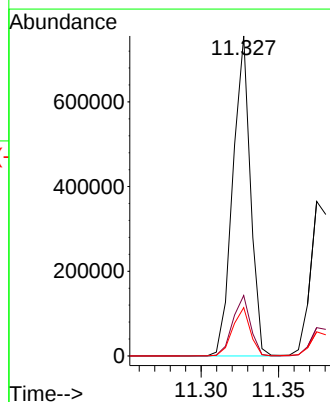
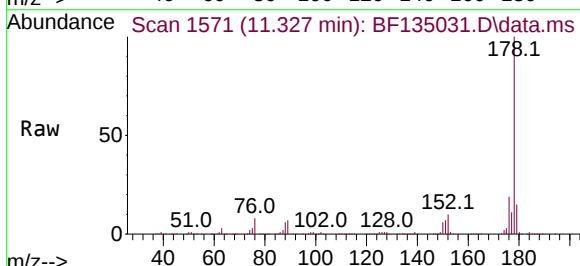
Tgt Ion:178 Resp: 596935

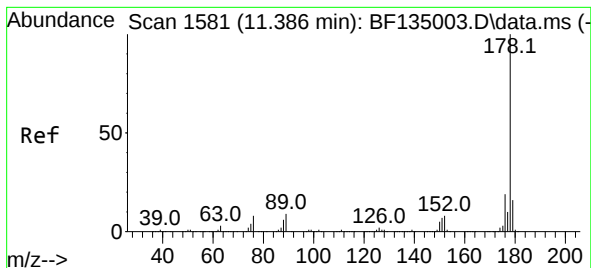
Ion Ratio Lower Upper

178 100

176 18.9 15.9 23.9

179 15.1 12.5 18.7





#72

Anthracene

Concen: 18.528 ng

RT: 11.374 min Scan# 1

Delta R.T. -0.012 min

Lab File: BF135031.D

Acq: 31 Aug 2023 05:33

Instrument :

BNA_F

ClientSampleId :

SB-04(21.5-23)DL2

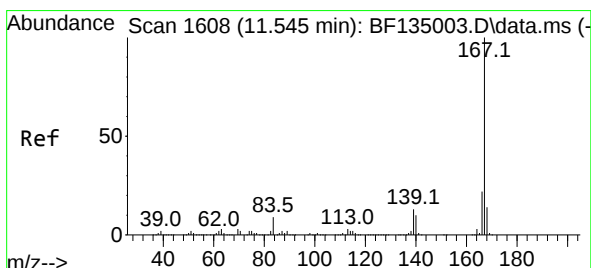
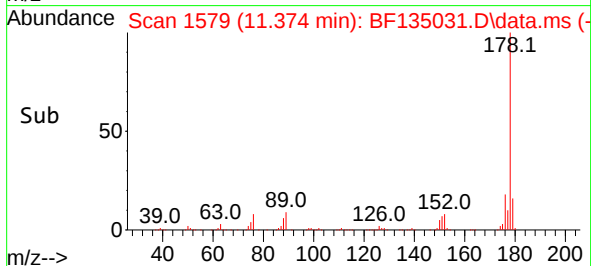
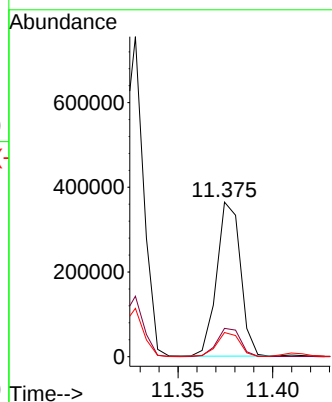
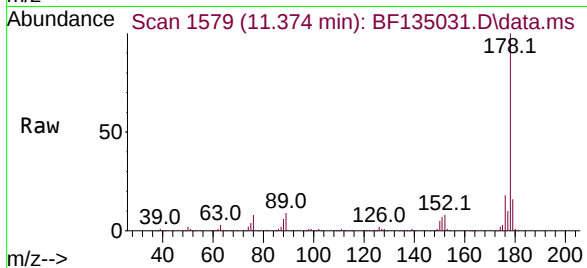
Tgt Ion:178 Resp: 318145

Ion Ratio Lower Upper

178 100

176 18.3 15.4 23.2

179 15.6 12.8 19.2



#73

Carbazole

Concen: 2.822 ng

RT: 11.533 min Scan# 1606

Delta R.T. -0.012 min

Lab File: BF135031.D

Acq: 31 Aug 2023 05:33

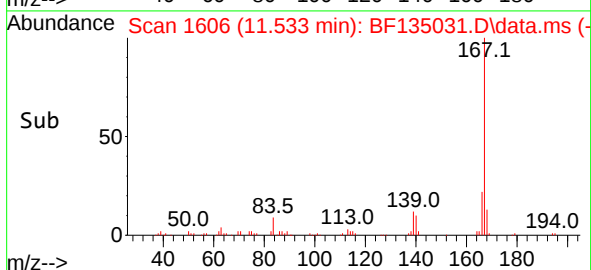
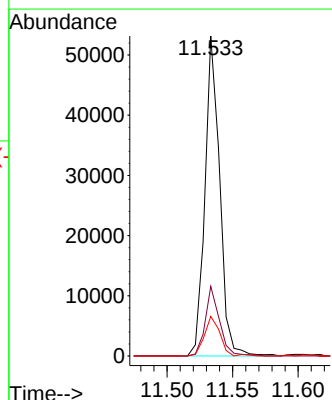
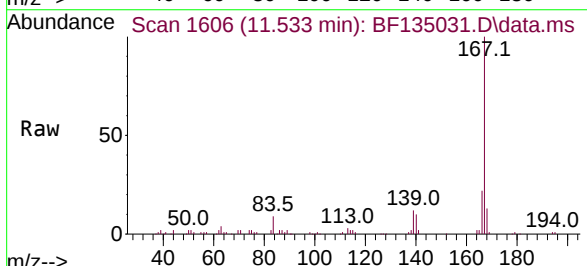
Tgt Ion:167 Resp: 41795

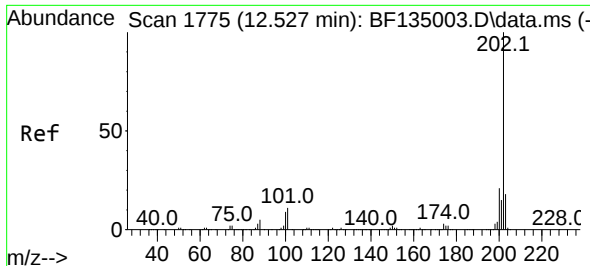
Ion Ratio Lower Upper

167 100

166 21.8 17.4 26.2

139 12.4 10.3 15.5

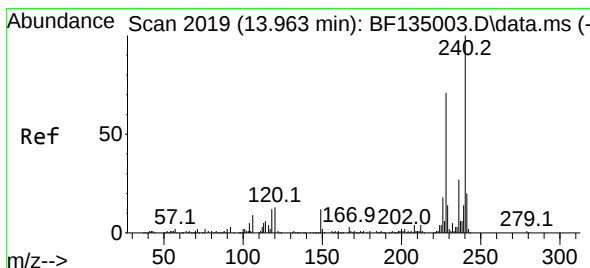
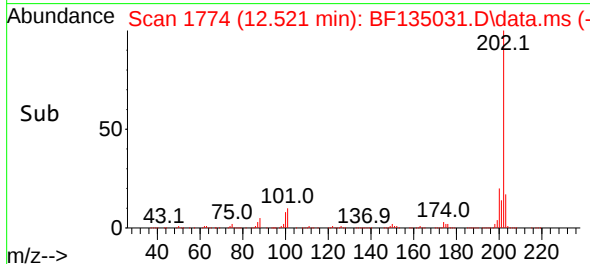
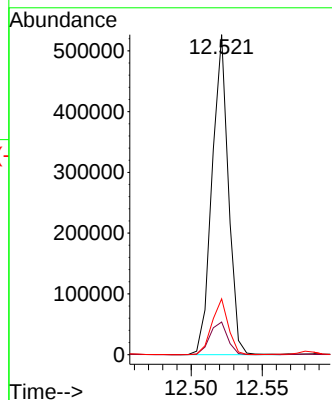
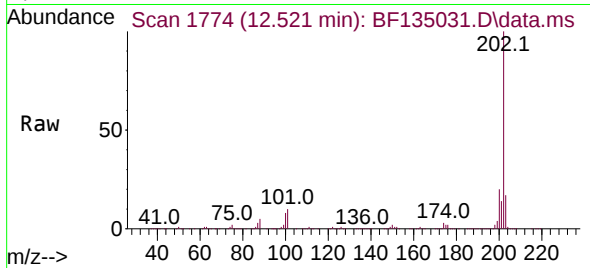




#75
Fluoranthene
Concen: 24.713 ng
RT: 12.521 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF135031.D
Acq: 31 Aug 2023 05:33

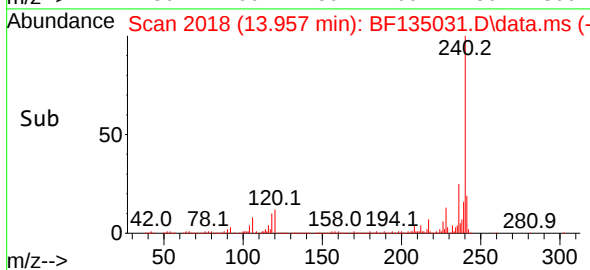
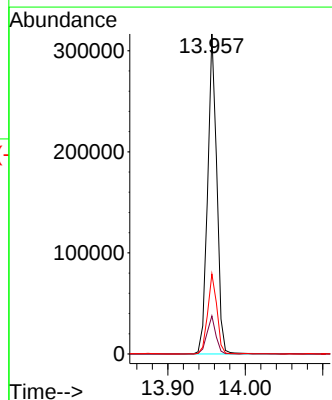
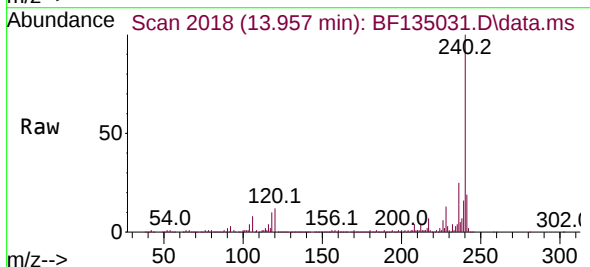
Instrument :
BNA_F
ClientSampleId :
SB-04(21.5-23)DL2

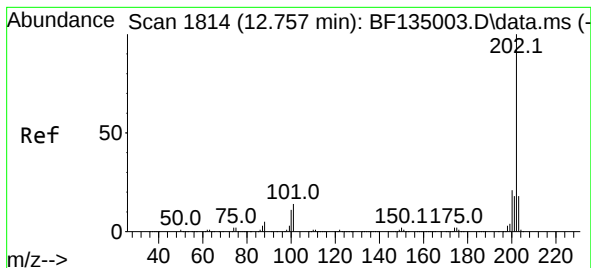
Tgt Ion:202 Resp: 419932
Ion Ratio Lower Upper
202 100
101 10.2 0.0 31.5
203 17.5 0.0 37.8



#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.957 min Scan# 2018
Delta R.T. -0.006 min
Lab File: BF135031.D
Acq: 31 Aug 2023 05:33

Tgt Ion:240 Resp: 259945
Ion Ratio Lower Upper
240 100
120 11.9 10.2 15.2
236 25.0 21.3 31.9





#78

Pyrene

Concen: 15.017 ng

RT: 12.751 min Scan# 1814

Delta R.T. -0.006 min

Lab File: BF135031.D

Acq: 31 Aug 2023 05:33

Instrument :

BNA_F

ClientSampleId :

SB-04(21.5-23)DL2

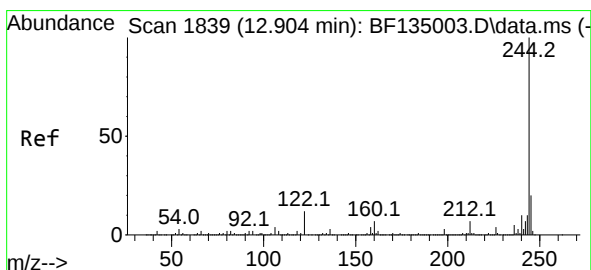
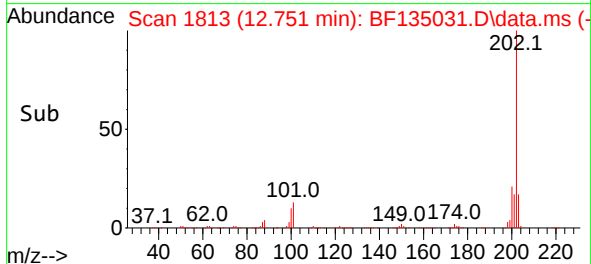
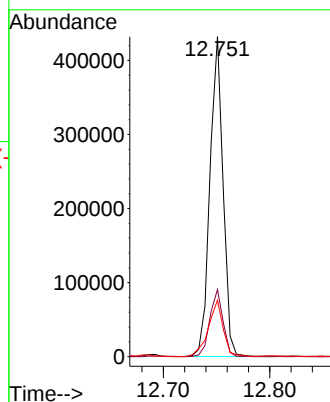
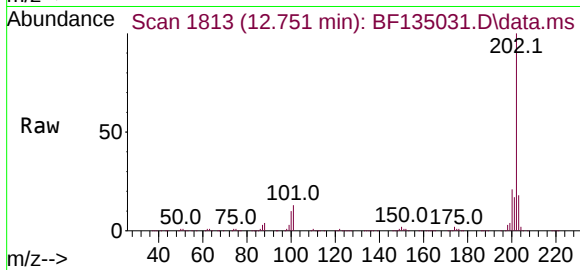
Tgt Ion:202 Resp: 370637

Ion Ratio Lower Upper

202 100

200 21.0 17.0 25.6

203 17.7 14.2 21.2



#79

Terphenyl-d14

Concen: 0.220 ng

RT: 12.898 min Scan# 1838

Delta R.T. -0.006 min

Lab File: BF135031.D

Acq: 31 Aug 2023 05:33

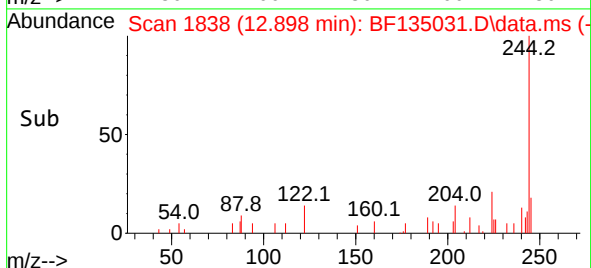
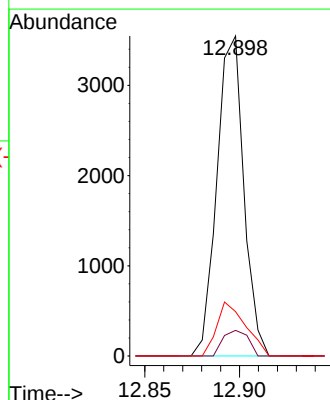
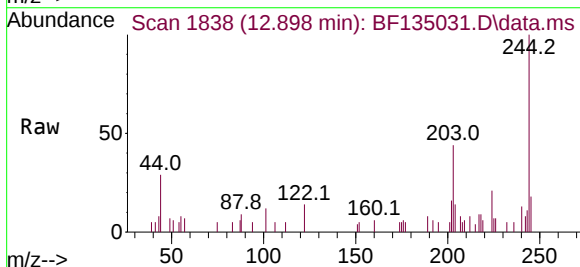
Tgt Ion:244 Resp: 3509

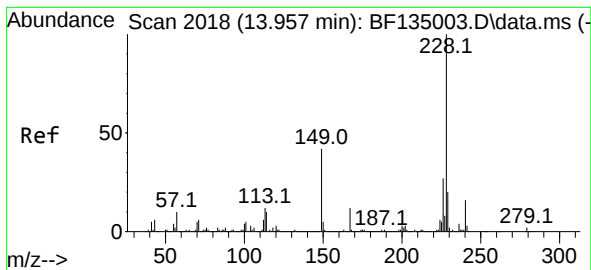
Ion Ratio Lower Upper

244 100

212 8.0 5.6 8.4

122 13.8 9.8 14.6





#81

Benzo(a)anthracene

Concen: 11.351 ng

RT: 13.980 min Scan# 2022

Delta R.T. 0.024 min

Lab File: BF135031.D

Acq: 31 Aug 2023 05:33

Instrument :

BNA_F

ClientSampleId :

SB-04(21.5-23)DL2

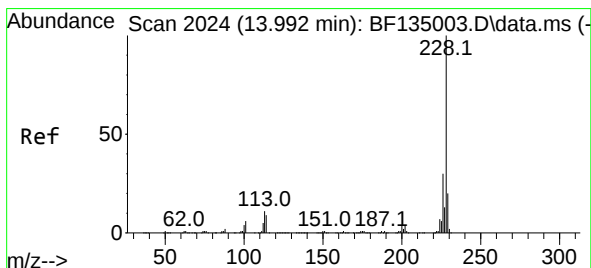
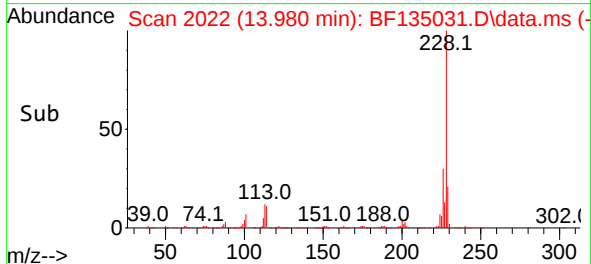
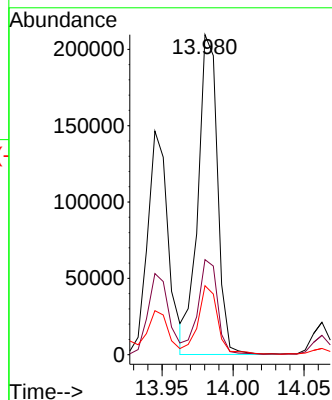
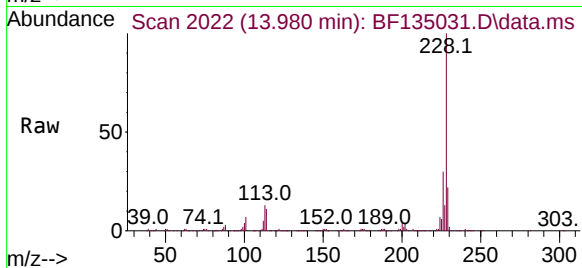
Tgt Ion:228 Resp: 201278

Ion Ratio Lower Upper

228 100

226 29.7 21.6 32.4

229 21.6 15.6 23.4



#83

Chrysene

Concen: 11.550 ng

RT: 13.980 min Scan# 2022

Delta R.T. -0.012 min

Lab File: BF135031.D

Acq: 31 Aug 2023 05:33

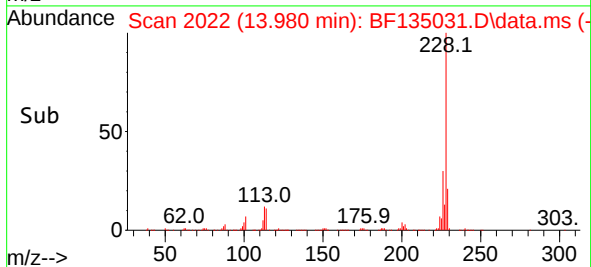
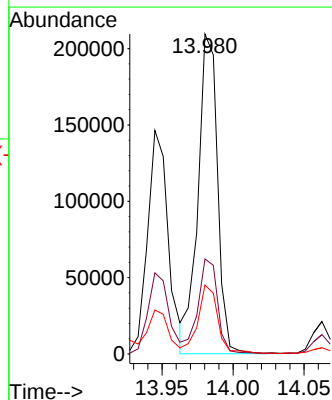
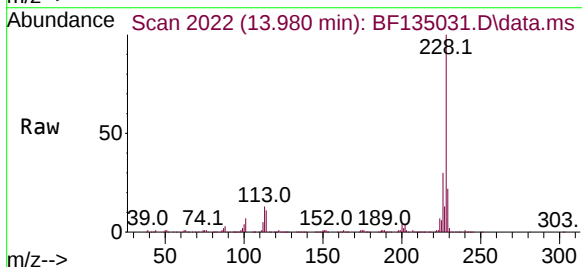
Tgt Ion:228 Resp: 201278

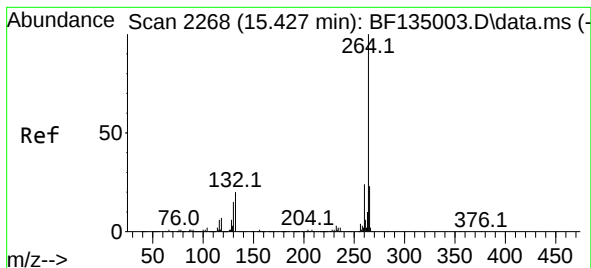
Ion Ratio Lower Upper

228 100

226 29.7 24.2 36.4

229 21.6 15.9 23.9





#86

Perylene-d12

Concen: 20.000 ng

RT: 15.427 min Scan# 21

Delta R.T. 0.000 min

Lab File: BF135031.D

Acq: 31 Aug 2023 05:33

Instrument :

BNA_F

ClientSampleId :

SB-04(21.5-23)DL2

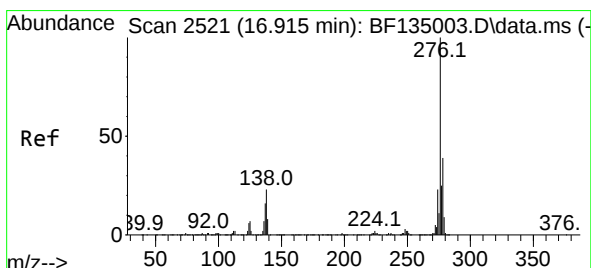
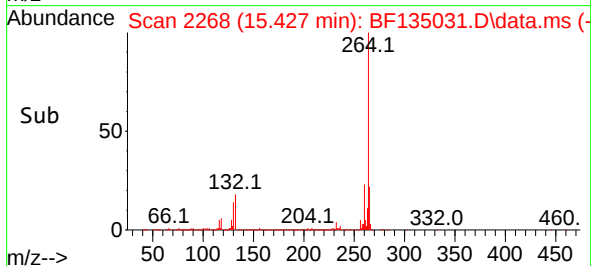
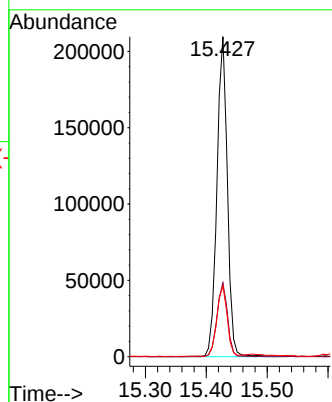
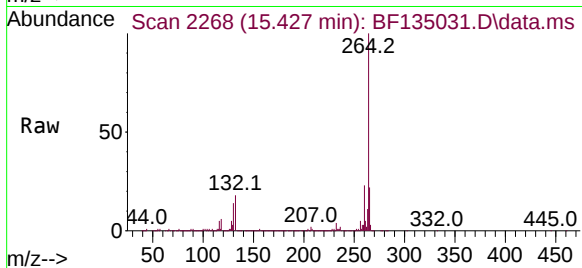
Tgt Ion:264 Resp: 250855

Ion Ratio Lower Upper

264 100

260 23.1 19.0 28.6

265 22.0 18.2 27.2



#87

Indeno(1,2,3-cd)pyrene

Concen: 2.951 ng

RT: 16.898 min Scan# 2518

Delta R.T. -0.018 min

Lab File: BF135031.D

Acq: 31 Aug 2023 05:33

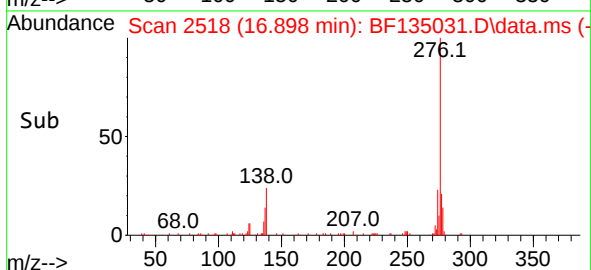
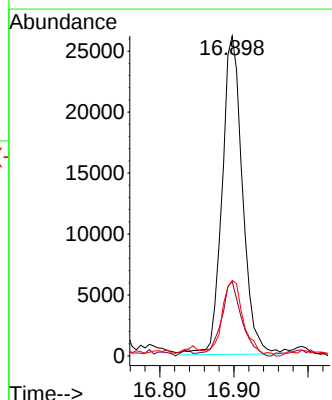
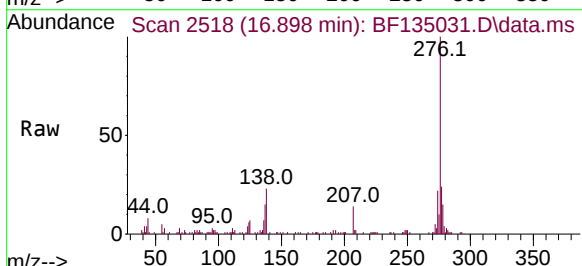
Tgt Ion:276 Resp: 49861

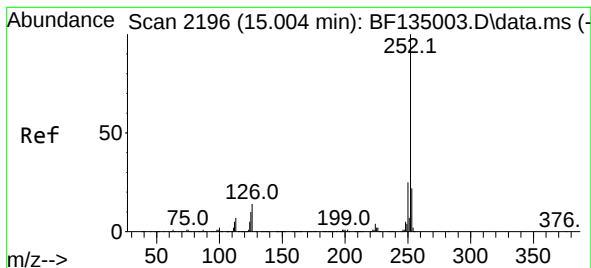
Ion Ratio Lower Upper

276 100

138 23.4 20.2 30.2

277 25.3 20.4 30.6





#88

Benzo(b)fluoranthene

Concen: 12.086 ng

RT: 14.998 min Scan# 2195

Delta R.T. -0.006 min

Lab File: BF135031.D

Acq: 31 Aug 2023 05:33

Instrument :

BNA_F

ClientSampleId :

SB-04(21.5-23)DL2

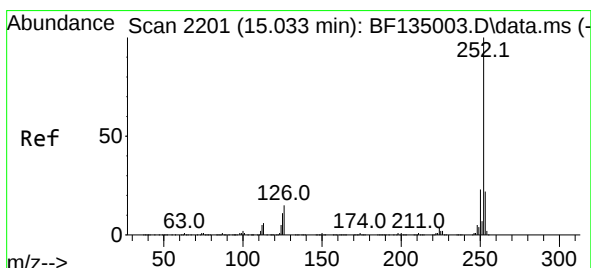
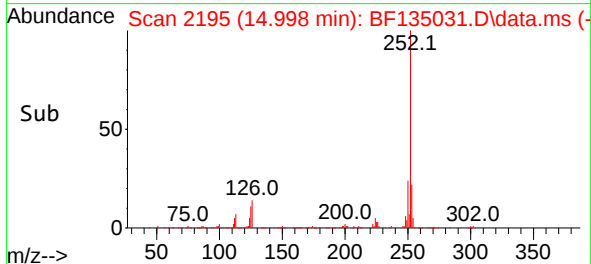
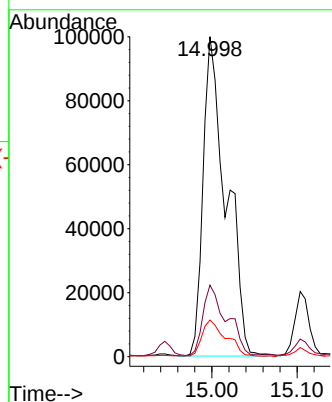
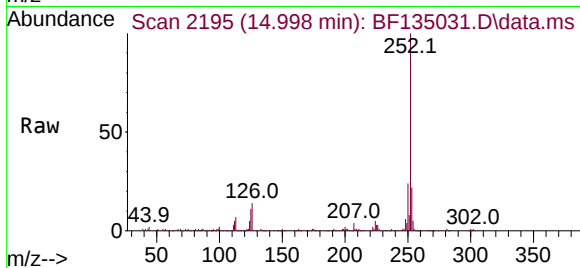
Tgt Ion:252 Resp: 188644

Ion Ratio Lower Upper

252 100

253 22.3 17.8 26.8

125 11.4 8.4 12.6



#89

Benzo(k)fluoranthene

Concen: 12.510 ng

RT: 14.998 min Scan# 2195

Delta R.T. -0.035 min

Lab File: BF135031.D

Acq: 31 Aug 2023 05:33

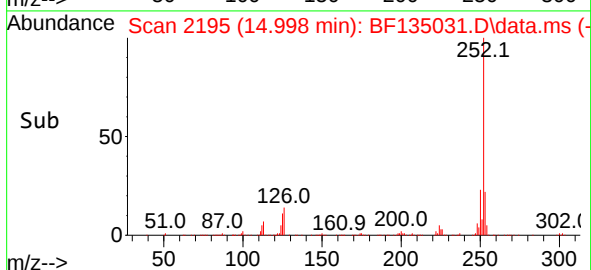
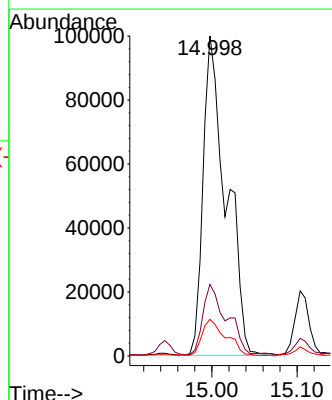
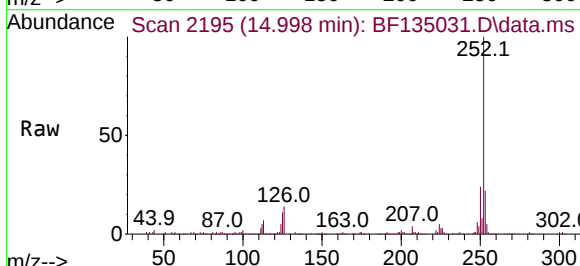
Tgt Ion:252 Resp: 188644

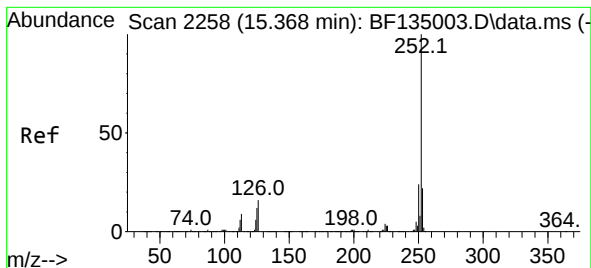
Ion Ratio Lower Upper

252 100

253 22.3 17.4 26.0

125 11.4 8.5 12.7





#90

Benzo(a)pyrene

Concen: 7.119 ng

RT: 15.362 min Scan# 21

Delta R.T. -0.006 min

Lab File: BF135031.D

Acq: 31 Aug 2023 05:33

Instrument :

BNA_F

ClientSampleId :

SB-04(21.5-23)DL2

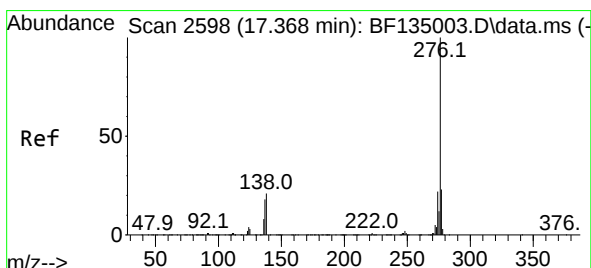
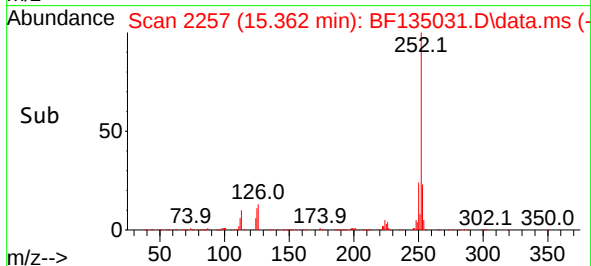
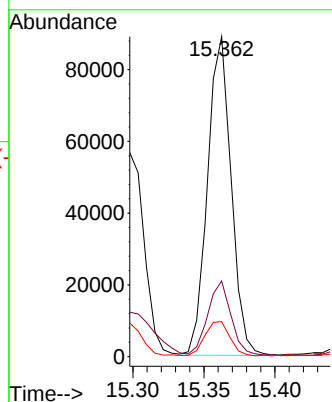
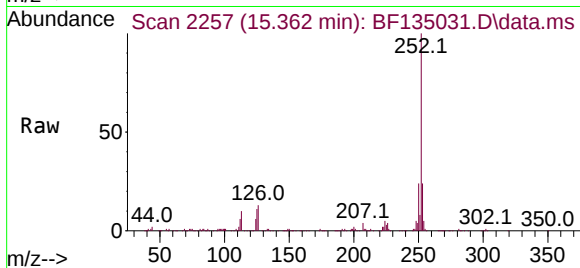
Tgt Ion:252 Resp: 103228

Ion Ratio Lower Upper

252 100

253 23.7 17.4 26.0

125 11.0 9.5 14.3



#92

Benzo(g,h,i)perylene

Concen: 3.211 ng

RT: 17.345 min Scan# 2594

Delta R.T. -0.024 min

Lab File: BF135031.D

Acq: 31 Aug 2023 05:33

Tgt Ion:276 Resp: 45708

Ion Ratio Lower Upper

276 100

277 25.3 18.5 27.7

138 24.2 17.1 25.7

