

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF083123\
 Data File : BF135062.D
 Acq On : 01 Sep 2023 02:14
 Operator : CG\JU
 Sample : 04093-03DL2 100X
 Misc :
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 NEVINS-SB04-Z83-84DL

Quant Time: Sep 01 02:57:40 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)

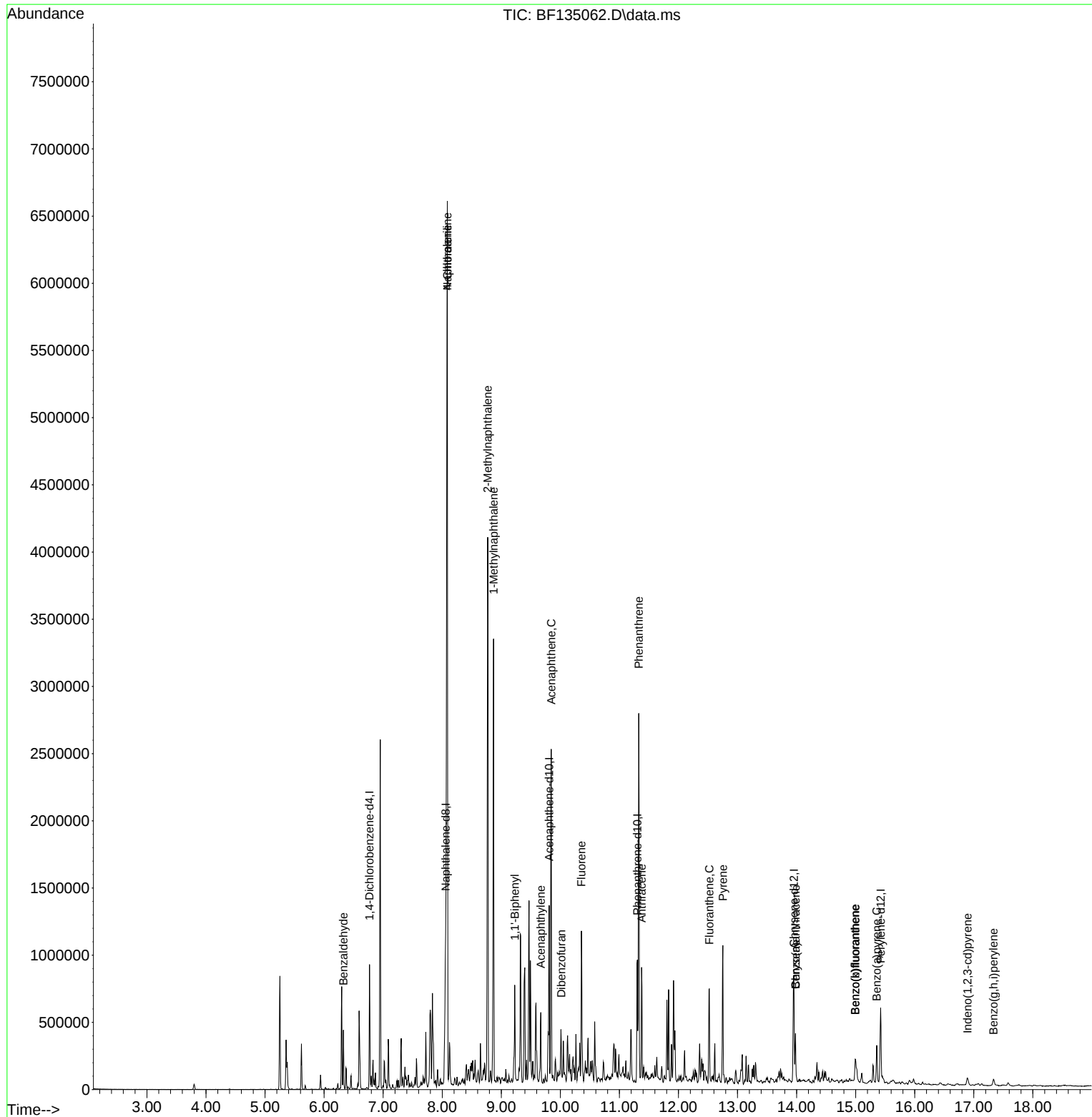
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.769	152	122880	20.000	ng	0.00
21) Naphthalene-d8	8.057	136	494778	20.000	ng	0.00
39) Acenaphthene-d10	9.810	164	244714	20.000	ng	0.00
64) Phenanthrene-d10	11.304	188	375792	20.000	ng	0.00
76) Chrysene-d12	13.957	240	202290	20.000	ng	# 0.00
86) Perylene-d12	15.421	264	251008	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.393	112	4465	0.561	ng	0.00
7) Phenol-d6	6.404	99	6756	0.681	ng	-0.01
23) Nitrobenzene-d5	7.287	82	719	0.082	ng	-0.06
42) 2,4,6-Tribromophenol	10.598	330	519	0.200	ng	-0.01
45) 2-Fluorobiphenyl	9.128	172	9103	0.606	ng	-0.01
79) Terphenyl-d14	12.892	244	7337	0.592	ng	-0.01
Target Compounds						Qvalue
9) Benzaldehyde	6.328	77	14897	2.948	ng	# 1
31) Naphthalene	8.087	128	3717622	153.813	ng	97
33) 4-Chloroaniline	8.087	127	515780	48.789	ng	# 34
37) 2-Methylnaphthalene	8.769	142	1160932	71.988	ng	100
38) 1-Methylnaphthalene	8.869	142	797481	52.850	ng	100
46) 1,1'-Biphenyl	9.228	154	192713	10.307	ng	98
49) Acenaphthylene	9.669	152	72284	3.401	ng	# 85
52) Acenaphthene	9.845	154	502964	37.135	ng	99
55) Dibenzofuran	10.016	168	44337	2.269	ng	# 87
58) Fluorene	10.357	166	306203	20.557	ng	100
69) Atrazine	10.892	200	53	Below Cal		# 37
71) Phenanthrene	11.328	178	1050756	54.198	ng	99
72) Anthracene	11.375	178	317218	16.014	ng	98
75) Fluoranthene	12.522	202	286110	14.596	ng	98
78) Pyrene	12.751	202	407980	21.242	ng	99
81) Benzo(a)anthracene	13.980	228	130544	9.460	ng	97
83) Chrysene	13.980	228	130544	9.626	ng	99
87) Indeno(1,2,3-cd)pyrene	16.892	276	35277	2.087	ng	98
88) Benzo(b)fluoranthene	14.992	252	129309	8.279	ng	97
89) Benzo(k)fluoranthene	14.992	252	129124	8.558	ng	96
90) Benzo(a)pyrene	15.357	252	127368	8.779	ng	98
92) Benzo(g,h,i)perylene	17.333	276	37901	2.661	ng	98

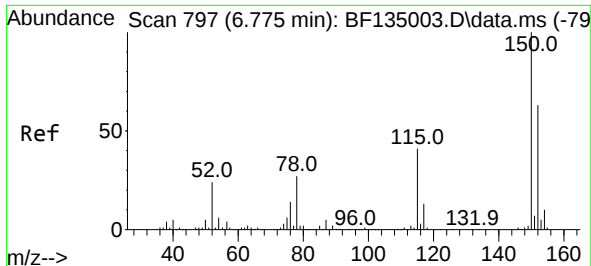
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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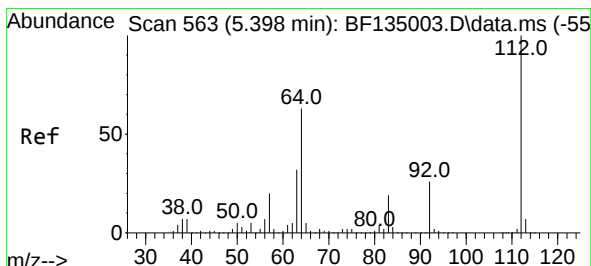
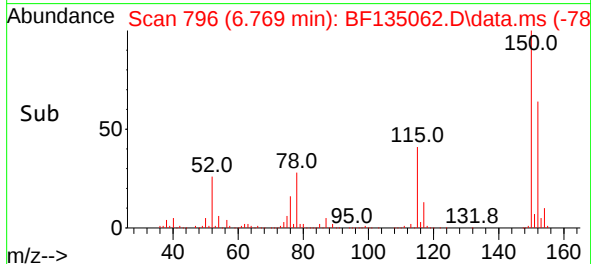
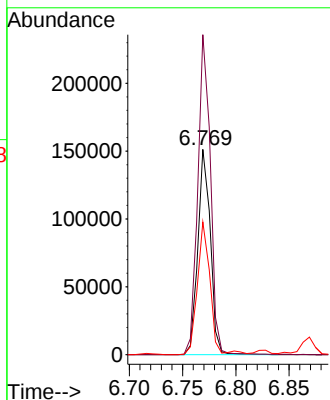
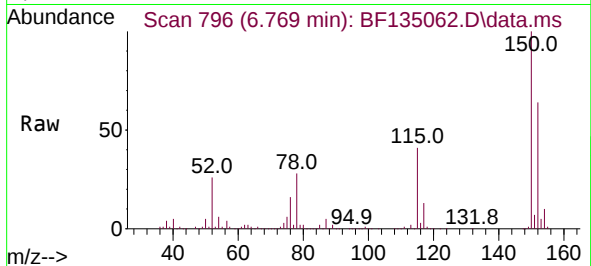




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.769 min Scan# 797
Delta R.T. -0.006 min
Lab File: BF135062.D
Acq: 01 Sep 2023 02:14

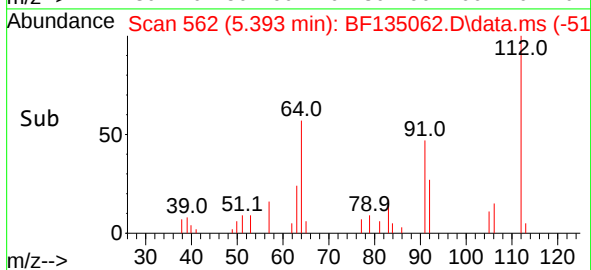
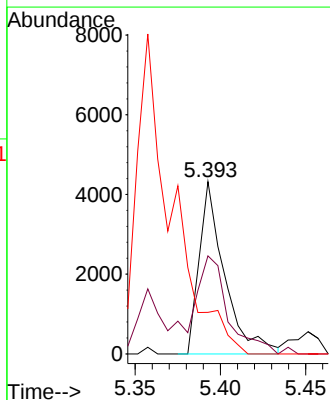
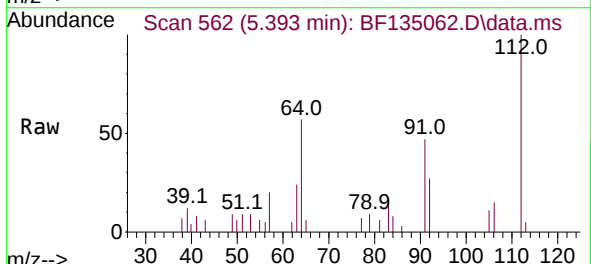
Instrument :
BNA_F
ClientSampleId :
NEVINS-SB04-Z83-84DL

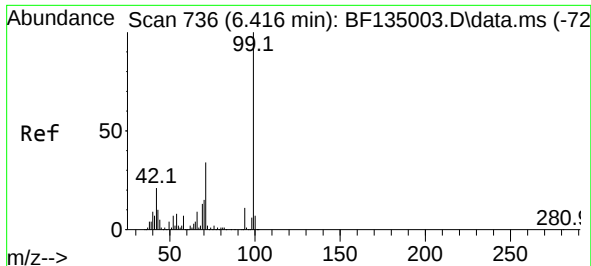
Tgt Ion:152 Resp: 122880
Ion Ratio Lower Upper
152 100
150 156.0 126.2 189.4
115 64.6 51.2 76.8



#5
2-Fluorophenol
Concen: 0.561 ng
RT: 5.393 min Scan# 562
Delta R.T. -0.006 min
Lab File: BF135062.D
Acq: 01 Sep 2023 02:14

Tgt Ion:112 Resp: 4465
Ion Ratio Lower Upper
112 100
64 56.9 50.5 75.7
63 24.1 25.9 38.9#





#7

Phenol-d6

Concen: 0.681 ng

RT: 6.404 min Scan# 734

Delta R.T. -0.012 min

Lab File: BF135062.D

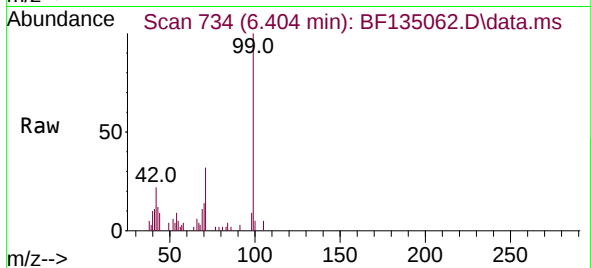
Acq: 01 Sep 2023 02:14

Instrument :

BNA_F

ClientSampleId :

NEVINS-SB04-Z83-84DL



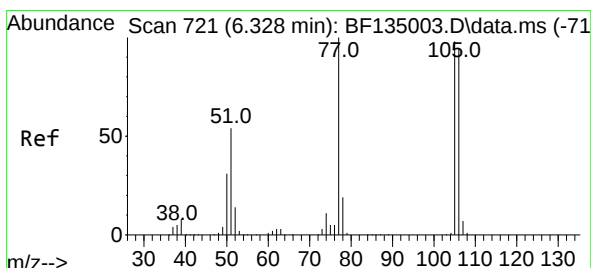
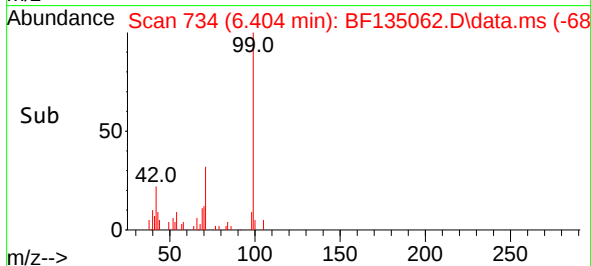
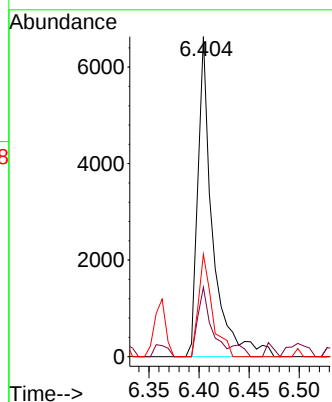
Tgt Ion: 99 Resp: 6756

Ion Ratio Lower Upper

99 100

42 21.7 16.6 25.0

71 32.0 27.0 40.6



#9

Benzaldehyde

Concen: 2.948 ng

RT: 6.328 min Scan# 721

Delta R.T. -0.000 min

Lab File: BF135062.D

Acq: 01 Sep 2023 02:14

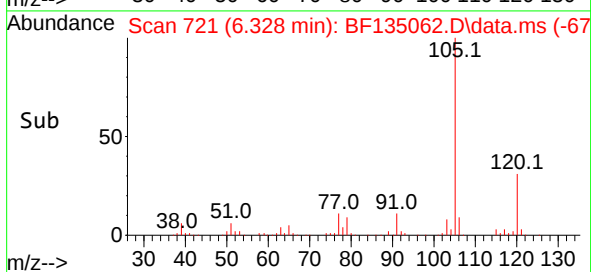
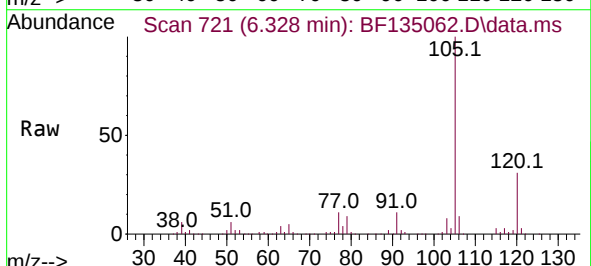
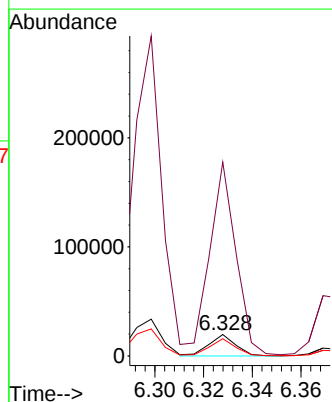
Tgt Ion: 77 Resp: 14897

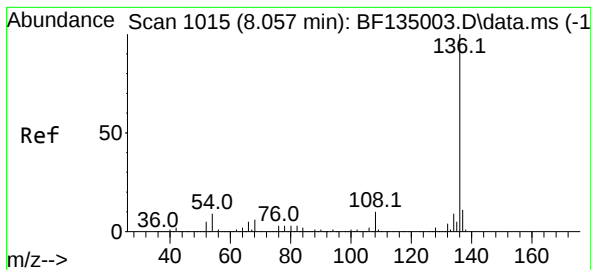
Ion Ratio Lower Upper

77 100

105 907.1 78.4 118.4#

106 80.7 74.3 114.3





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.057 min Scan# 1015

Delta R.T. 0.000 min

Lab File: BF135062.D

Acq: 01 Sep 2023 02:14

Instrument :

BNA_F

ClientSampleId :

NEVINS-SB04-Z83-84DL

Tgt Ion:136 Resp: 494778

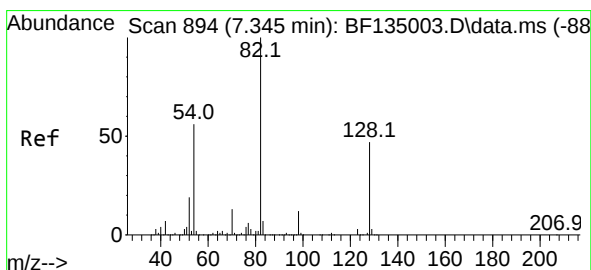
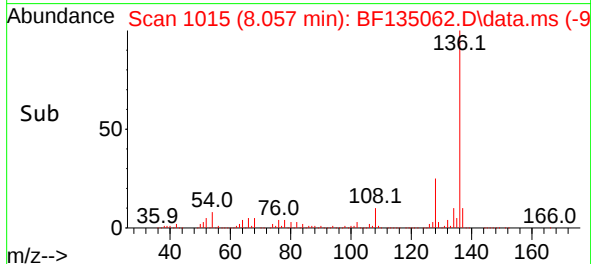
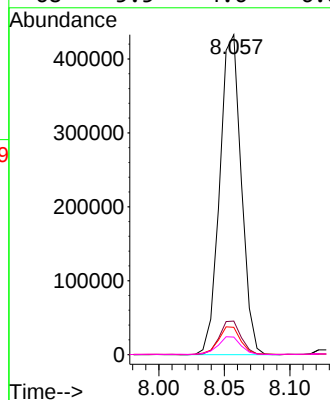
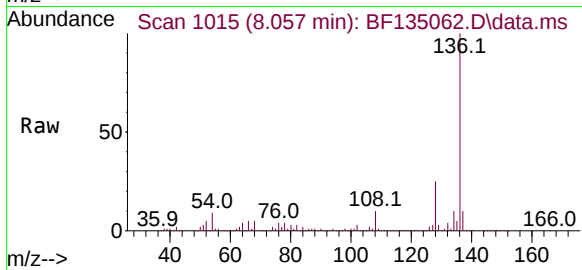
Ion Ratio Lower Upper

136 100

137 10.5 8.8 13.2

54 8.5 7.0 10.4

68 5.5 4.6 6.8



#23

Nitrobenzene-d5

Concen: 0.082 ng

RT: 7.287 min Scan# 884

Delta R.T. -0.059 min

Lab File: BF135062.D

Acq: 01 Sep 2023 02:14

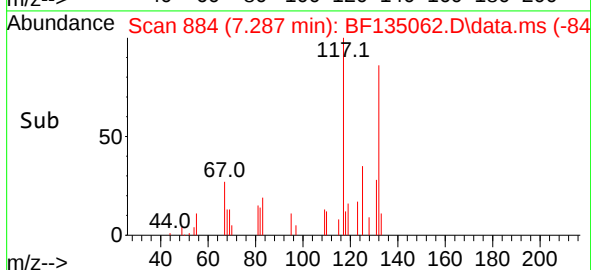
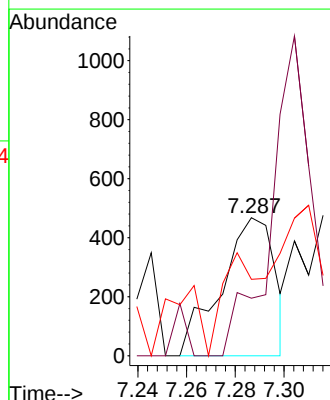
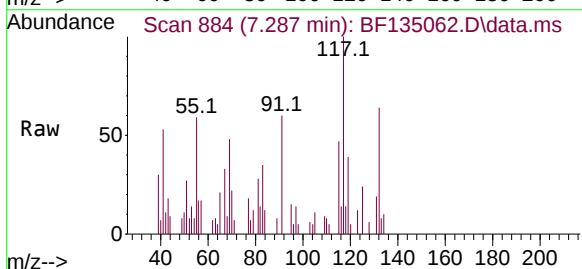
Tgt Ion: 82 Resp: 719

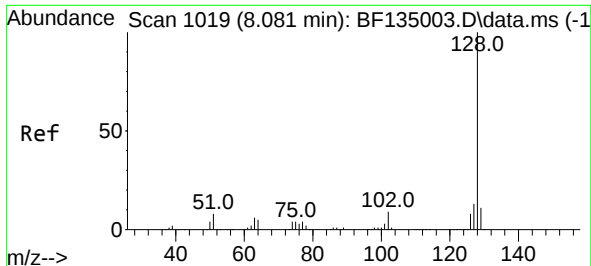
Ion Ratio Lower Upper

82 100

128 41.7 37.8 56.8

54 55.3 45.0 67.6

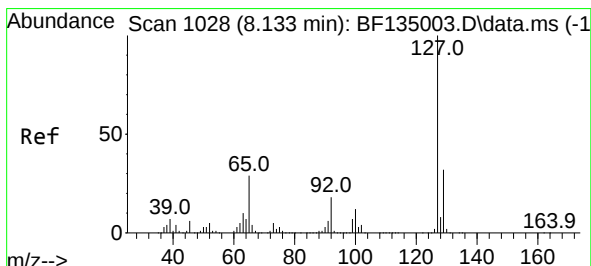
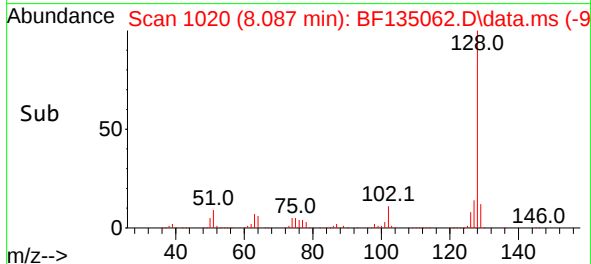
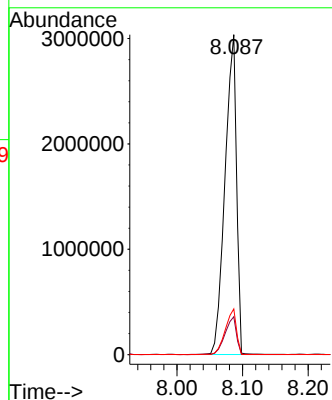
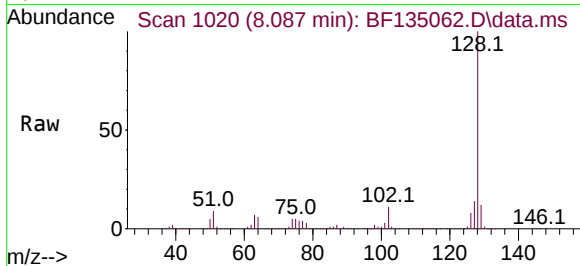




#31
Naphthalene
Concen: 153.813 ng
RT: 8.087 min Scan# 1019
Delta R.T. 0.006 min
Lab File: BF135062.D
Acq: 01 Sep 2023 02:14

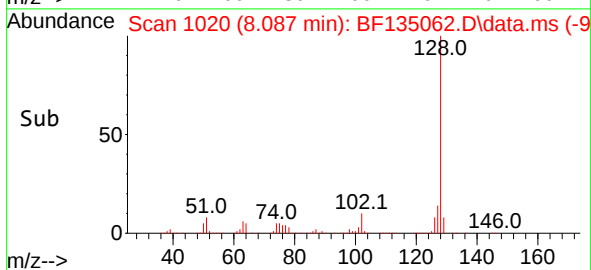
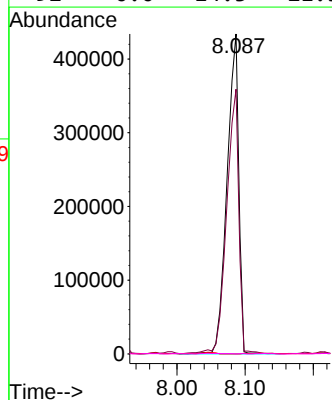
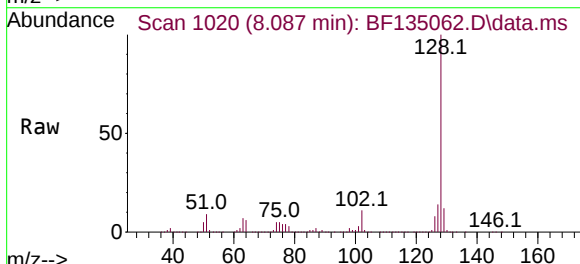
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NEVINS-SB04-Z83-84DL

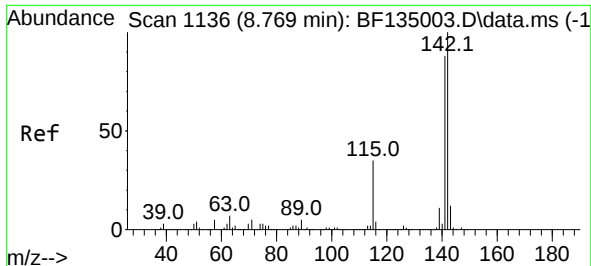
Tgt Ion:128 Resp: 3717622
Ion Ratio Lower Upper
128 100
129 11.8 8.6 13.0
127 14.3 10.6 16.0



#33
4-Chloroaniline
Concen: 48.789 ng
RT: 8.087 min Scan# 1020
Delta R.T. -0.047 min
Lab File: BF135062.D
Acq: 01 Sep 2023 02:14

Tgt Ion:127 Resp: 515780
Ion Ratio Lower Upper
127 100
129 82.8 25.6 38.4#
65 0.0 23.1 34.7#
92 0.0 14.3 21.5#

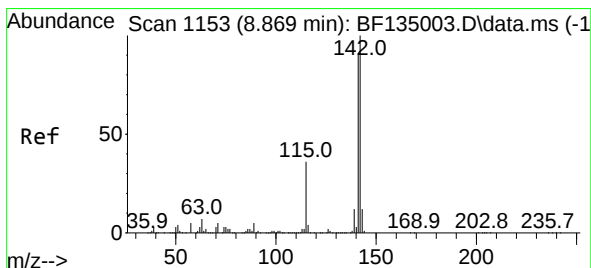
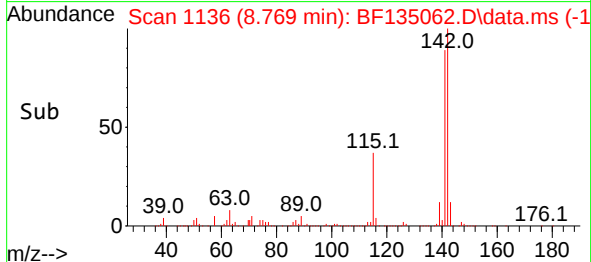
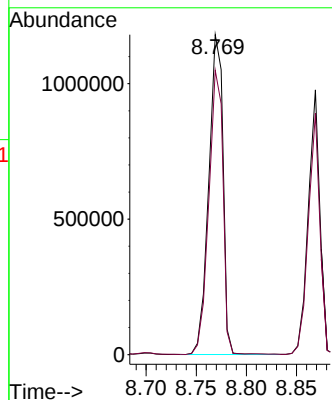
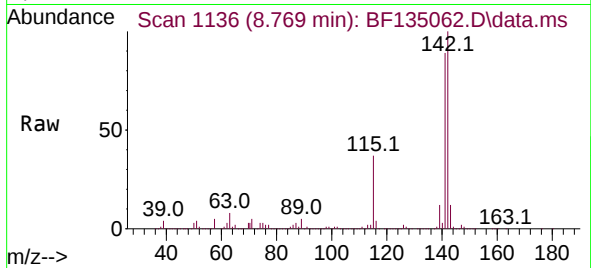




#37
2-Methylnaphthalene
Concen: 71.988 ng
RT: 8.769 min Scan# 1136
Delta R.T. 0.000 min
Lab File: BF135062.D
Acq: 01 Sep 2023 02:14

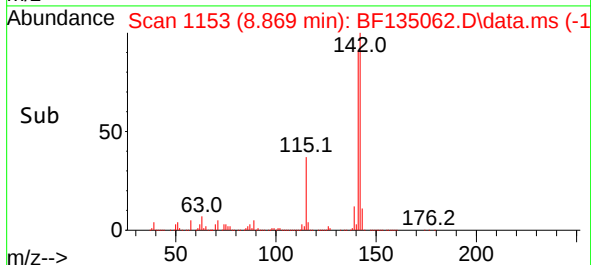
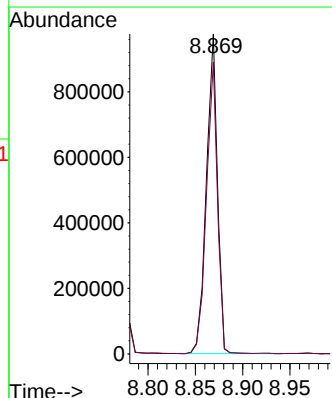
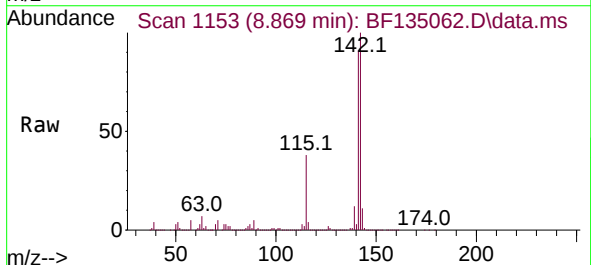
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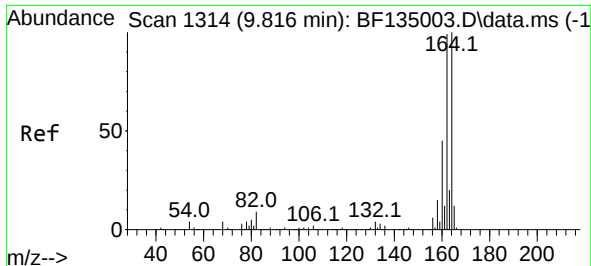
Tgt Ion:142 Resp: 1160932
Ion Ratio Lower Upper
142 100
141 88.8 70.7 106.1



#38
1-Methylnaphthalene
Concen: 52.850 ng
RT: 8.869 min Scan# 1153
Delta R.T. 0.000 min
Lab File: BF135062.D
Acq: 01 Sep 2023 02:14

Tgt Ion:142 Resp: 797481
Ion Ratio Lower Upper
142 100
141 91.2 73.0 109.4

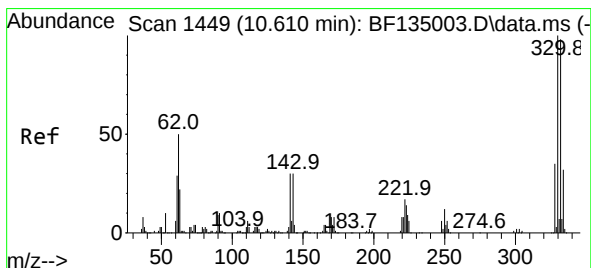
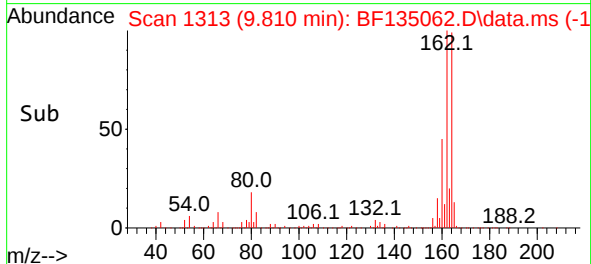
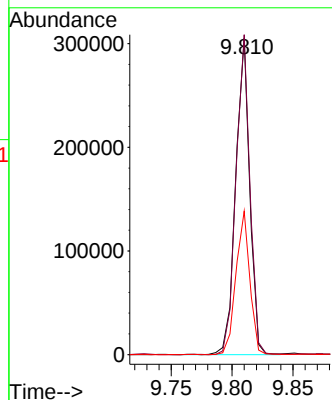
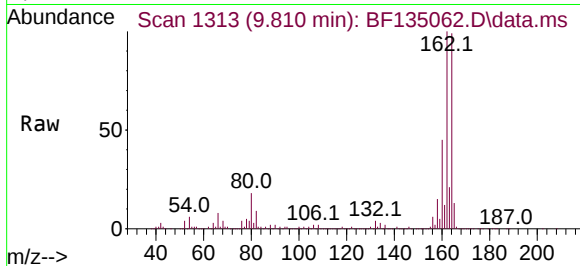




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.810 min Scan# 1314
Delta R.T. -0.006 min
Lab File: BF135062.D
Acq: 01 Sep 2023 02:14

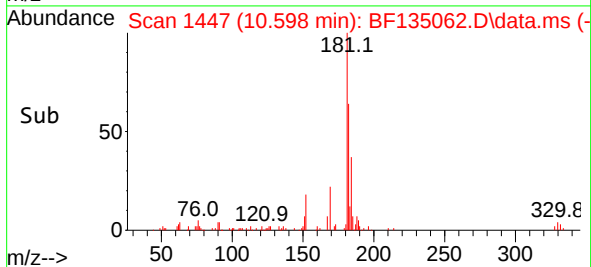
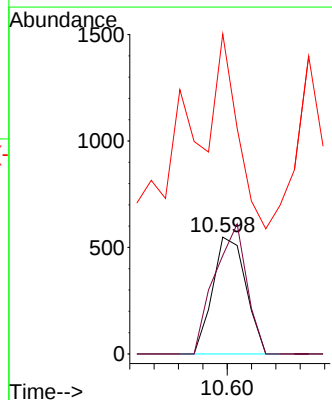
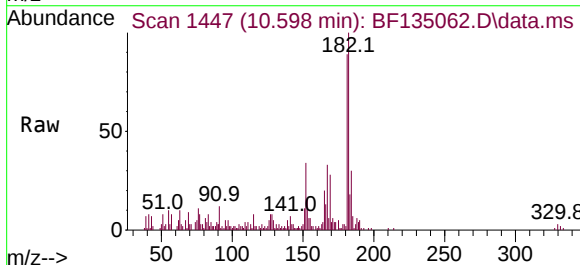
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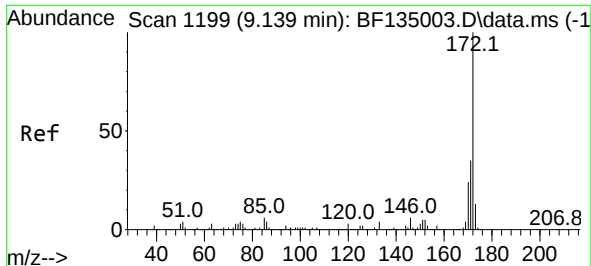
Tgt Ion:164 Resp: 244714
Ion Ratio Lower Upper
164 100
162 101.2 79.5 119.3
160 45.4 36.0 54.0



#42
2,4,6-Tribromophenol
Concen: 0.200 ng
RT: 10.598 min Scan# 1447
Delta R.T. -0.012 min
Lab File: BF135062.D
Acq: 01 Sep 2023 02:14

Tgt Ion:330 Resp: 519
Ion Ratio Lower Upper
330 100
332 107.9 77.6 116.4
141 200.4 26.3 39.5#





#45

2-Fluorobiphenyl

Concen: 0.606 ng

RT: 9.128 min Scan# 1199

Delta R.T. -0.012 min

Lab File: BF135062.D

Acq: 01 Sep 2023 02:14

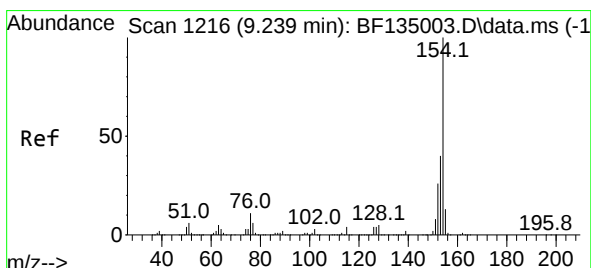
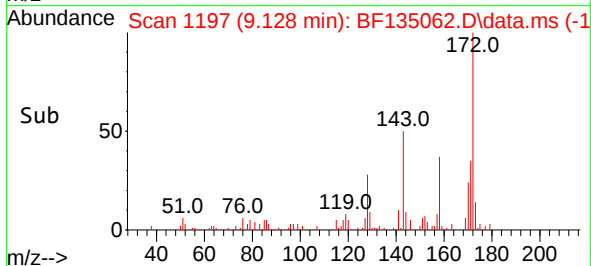
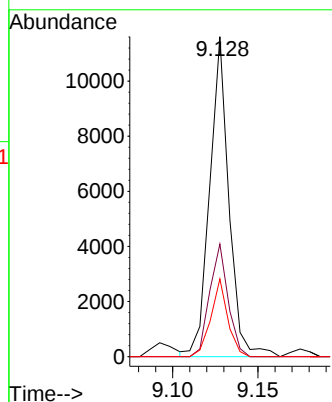
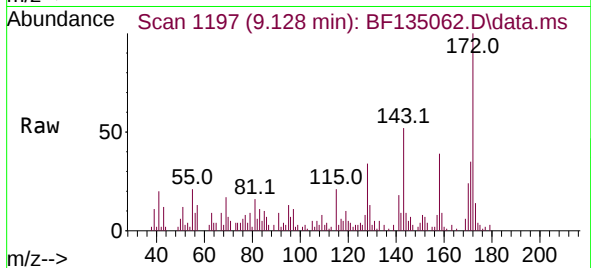
Instrument :

BNA_F

ClientSampleId :

NEVINS-SB04-Z83-84DL

Tgt Ion:172	Resp:	9103
Ion Ratio	Lower	Upper
172	100	
171	35.2	28.2 42.2
170	24.3	19.0 28.4



#46

1,1'-Biphenyl

Concen: 10.307 ng

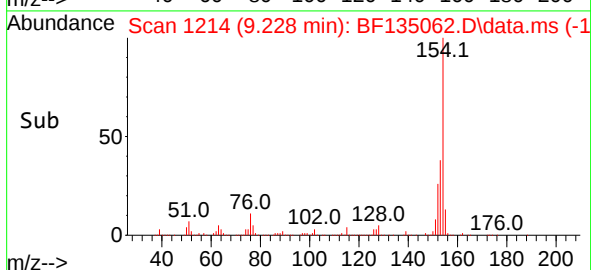
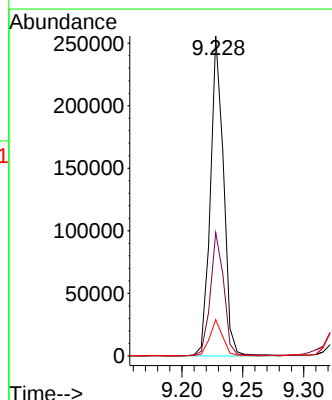
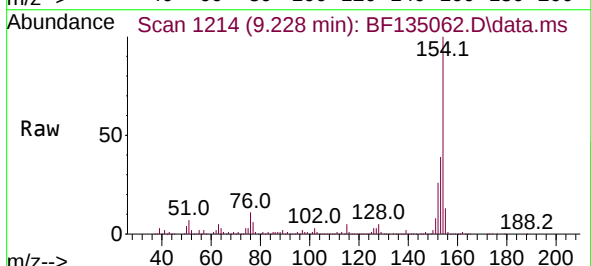
RT: 9.228 min Scan# 1214

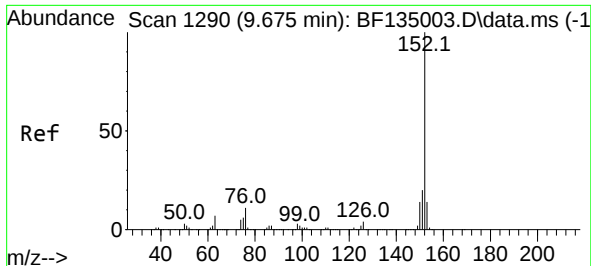
Delta R.T. -0.012 min

Lab File: BF135062.D

Acq: 01 Sep 2023 02:14

Tgt Ion:154	Resp:	192713
Ion Ratio	Lower	Upper
154	100	
153	38.6	20.2 60.2
76	11.3	0.0 31.2





#49

Acenaphthylene

Concen: 3.401 ng

RT: 9.669 min Scan# 1319

Delta R.T. -0.006 min

Lab File: BF135062.D

Acq: 01 Sep 2023 02:14

Instrument :

BNA_F

ClientSampleId :

NEVINS-SB04-Z83-84DL

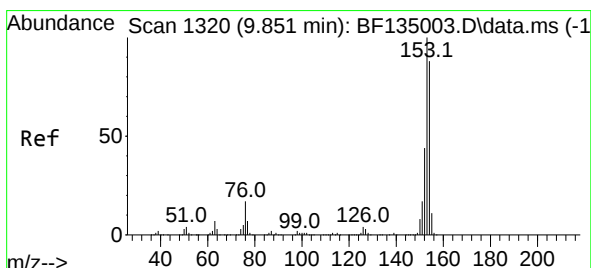
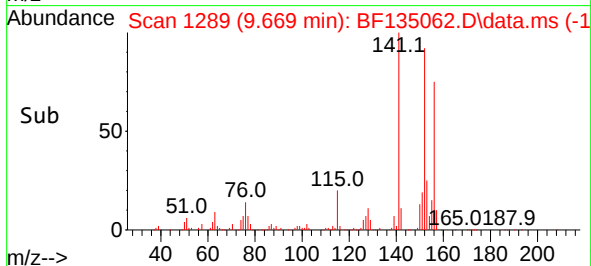
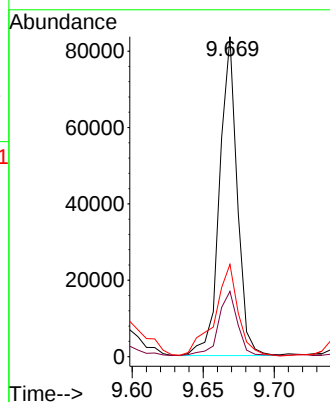
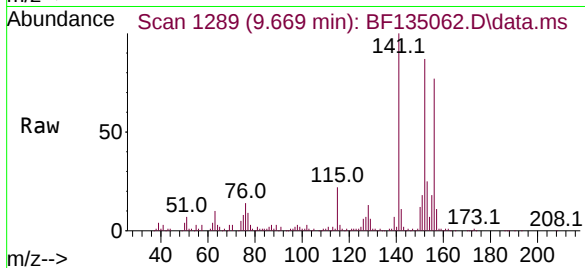
Tgt Ion:152 Resp: 72284

Ion Ratio Lower Upper

152 100

151 20.4 16.2 24.4

153 28.8 11.4 17.0#



#52

Acenaphthene

Concen: 37.135 ng

RT: 9.845 min Scan# 1319

Delta R.T. -0.006 min

Lab File: BF135062.D

Acq: 01 Sep 2023 02:14

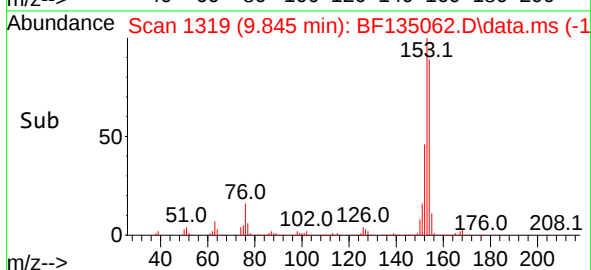
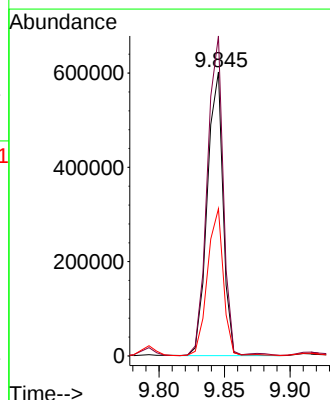
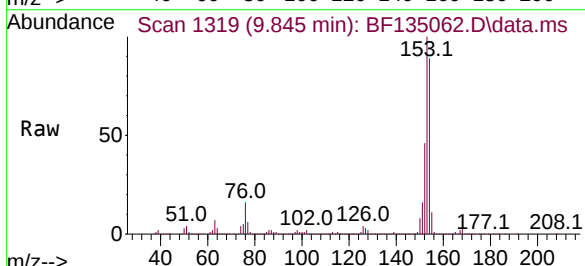
Tgt Ion:154 Resp: 502964

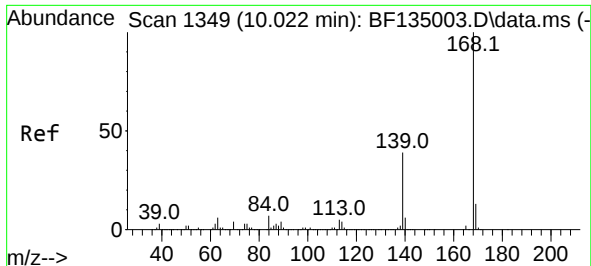
Ion Ratio Lower Upper

154 100

153 112.7 90.8 136.2

152 51.8 40.2 60.4

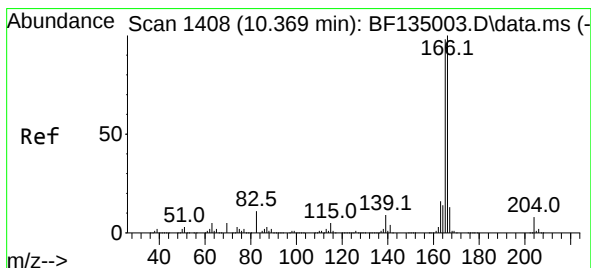
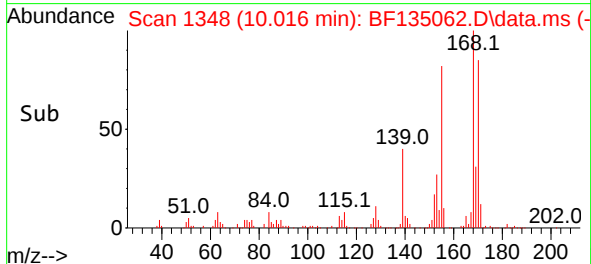
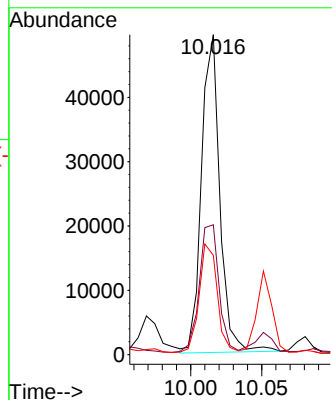
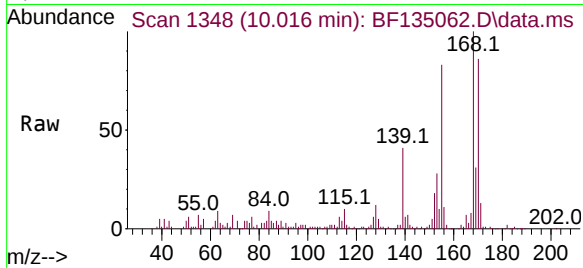




#55
Dibenzenofuran
Concen: 2.269 ng
RT: 10.016 min Scan# 1349
Delta R.T. -0.006 min
Lab File: BF135062.D
Acq: 01 Sep 2023 02:14

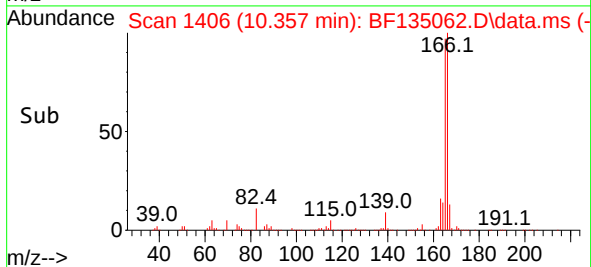
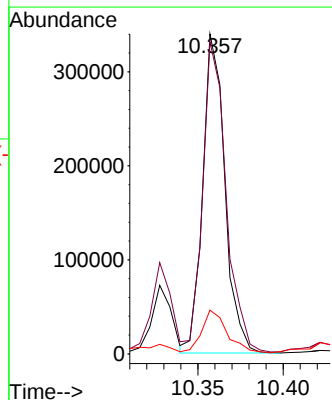
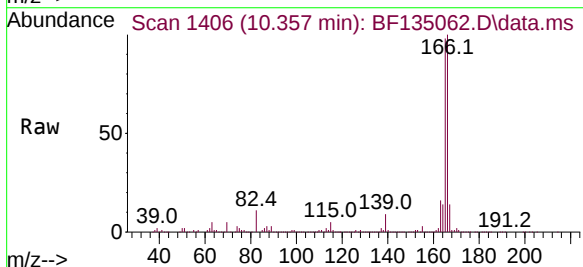
Instrument :
BNA_F
ClientSampleId :
NEVINS-SB04-Z83-84DL

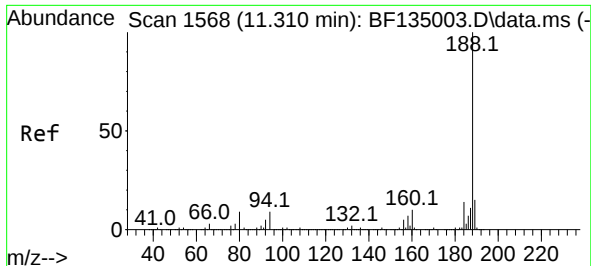
Tgt Ion:168 Resp: 44337
Ion Ratio Lower Upper
168 100
139 40.6 31.5 47.3
169 31.0 10.7 16.1#



#58
Fluorene
Concen: 20.557 ng
RT: 10.357 min Scan# 1406
Delta R.T. -0.012 min
Lab File: BF135062.D
Acq: 01 Sep 2023 02:14

Tgt Ion:166 Resp: 306203
Ion Ratio Lower Upper
166 100
165 97.6 78.0 117.0
167 13.7 10.8 16.2

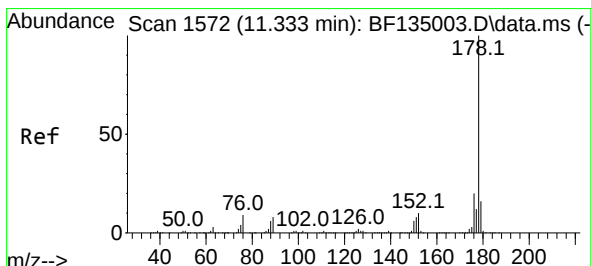
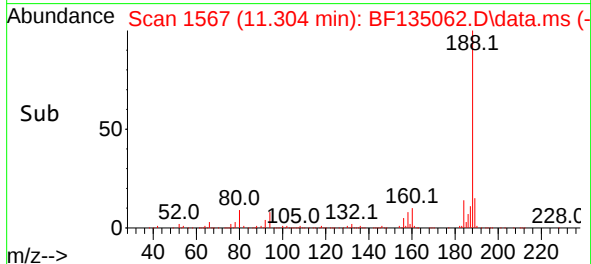
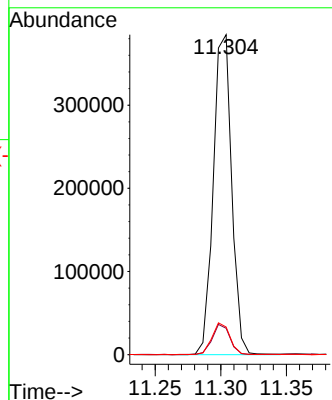
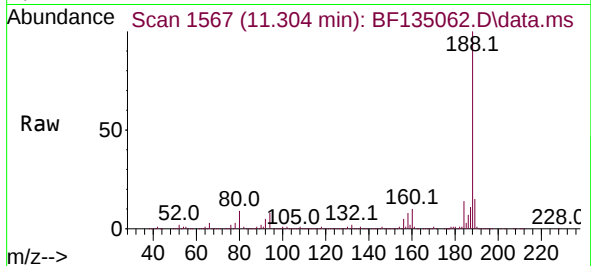




#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.304 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF135062.D
Acq: 01 Sep 2023 02:14

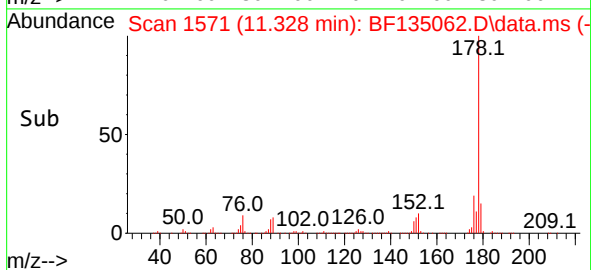
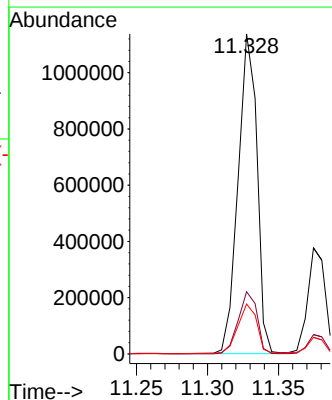
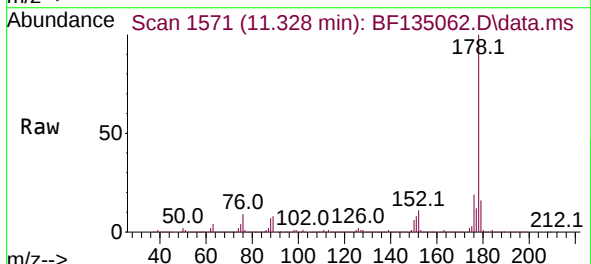
Instrument :
BNA_F
ClientSampleId :
NEVINS-SB04-Z83-84DL

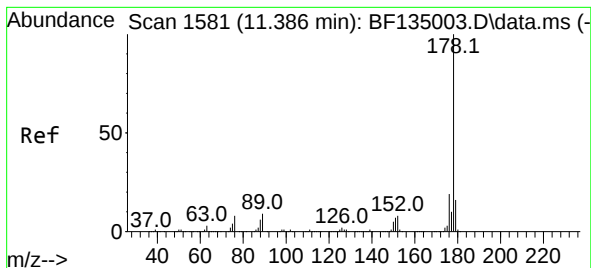
Tgt Ion:188 Resp: 375792
Ion Ratio Lower Upper
188 100
94 8.2 7.0 10.4
80 8.6 7.4 11.2



#71
Phenanthrene
Concen: 54.198 ng
RT: 11.328 min Scan# 1571
Delta R.T. -0.006 min
Lab File: BF135062.D
Acq: 01 Sep 2023 02:14

Tgt Ion:178 Resp: 1050756
Ion Ratio Lower Upper
178 100
176 19.4 15.9 23.9
179 15.6 12.5 18.7





#72

Anthracene

Concen: 16.014 ng

RT: 11.375 min Scan# 1579

Delta R.T. -0.012 min

Lab File: BF135062.D

Acq: 01 Sep 2023 02:14

Instrument :

BNA_F

ClientSampleId :

NEVINS-SB04-Z83-84DL

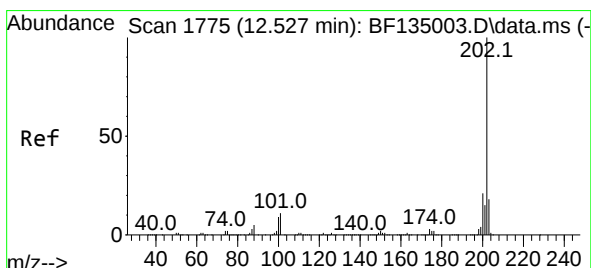
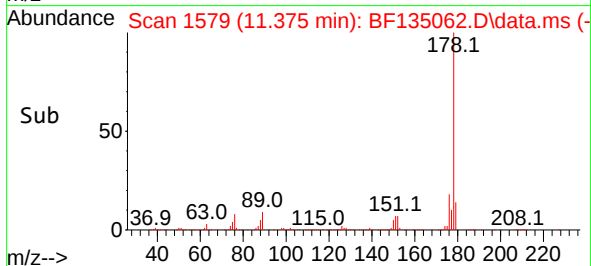
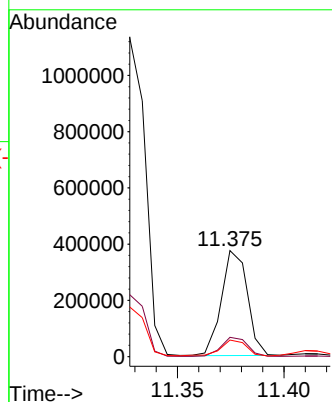
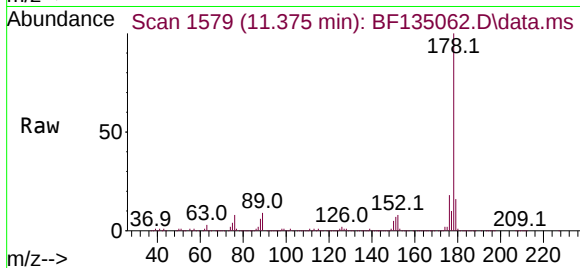
Tgt Ion:178 Resp: 317218

Ion Ratio Lower Upper

178 100

176 18.2 15.4 23.2

179 15.6 12.8 19.2



#75

Fluoranthene

Concen: 14.596 ng

RT: 12.522 min Scan# 1774

Delta R.T. -0.006 min

Lab File: BF135062.D

Acq: 01 Sep 2023 02:14

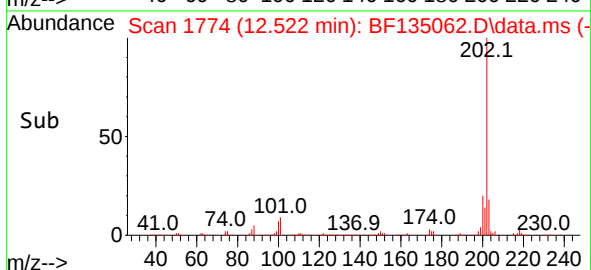
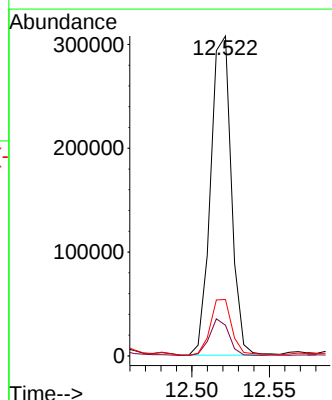
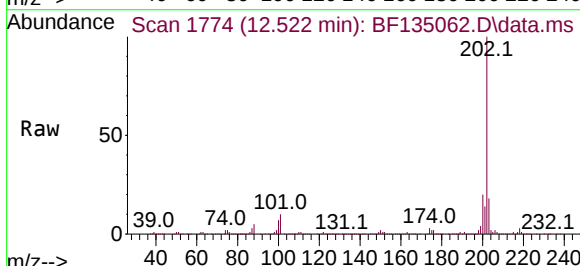
Tgt Ion:202 Resp: 286110

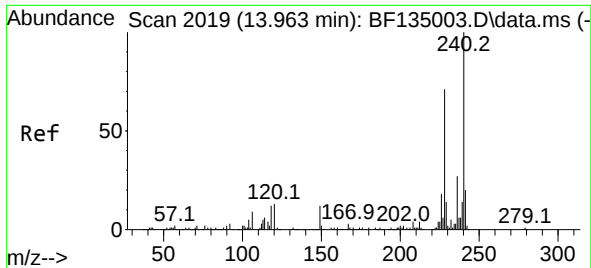
Ion Ratio Lower Upper

202 100

101 9.6 0.0 31.5

203 17.6 0.0 37.8

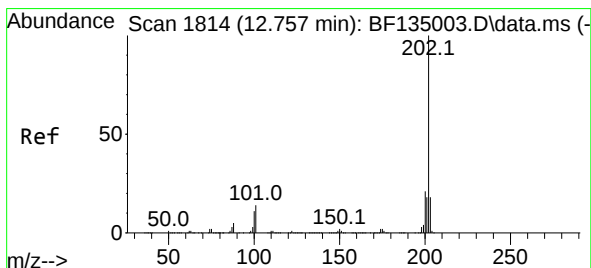
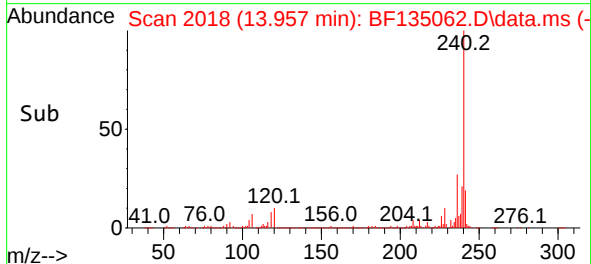
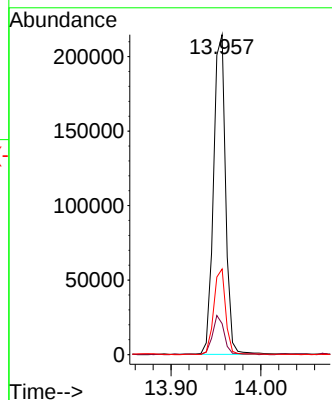
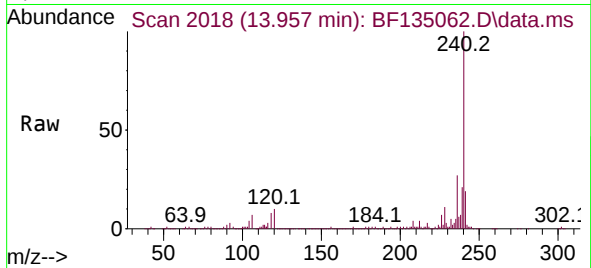




#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.957 min Scan# 2019
Delta R.T. -0.006 min
Lab File: BF135062.D
Acq: 01 Sep 2023 02:14

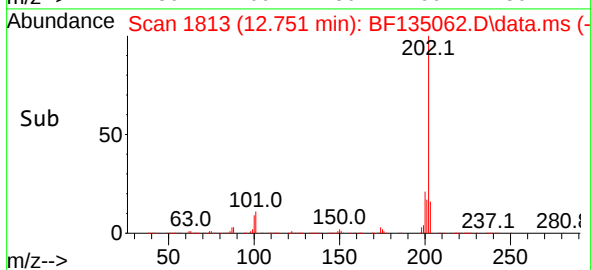
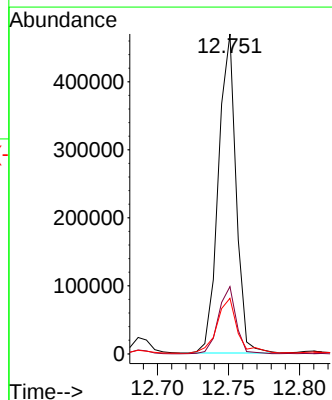
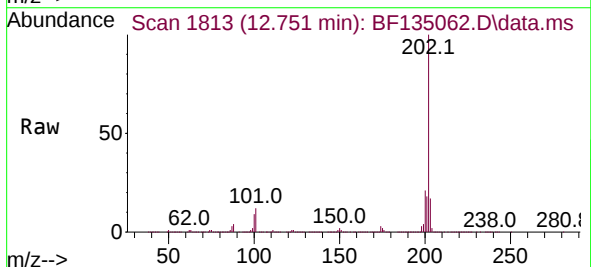
Instrument :
BNA_F
ClientSampleId :
NEVINS-SB04-Z83-84DL

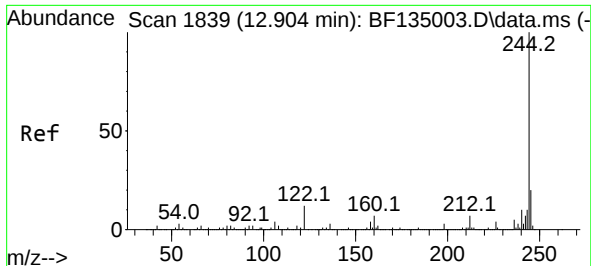
Tgt Ion:240 Resp: 202290
Ion Ratio Lower Upper
240 100
120 9.7 10.2 15.2#
236 26.8 21.3 31.9



#78
Pyrene
Concen: 21.242 ng
RT: 12.751 min Scan# 1813
Delta R.T. -0.006 min
Lab File: BF135062.D
Acq: 01 Sep 2023 02:14

Tgt Ion:202 Resp: 407980
Ion Ratio Lower Upper
202 100
200 21.0 17.0 25.6
203 17.4 14.2 21.2

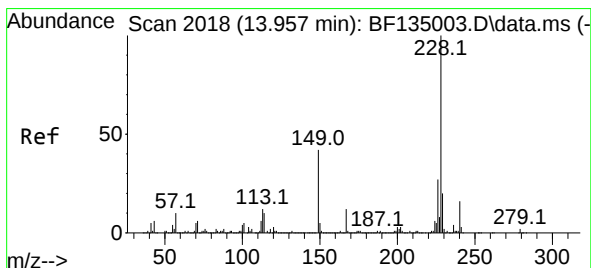
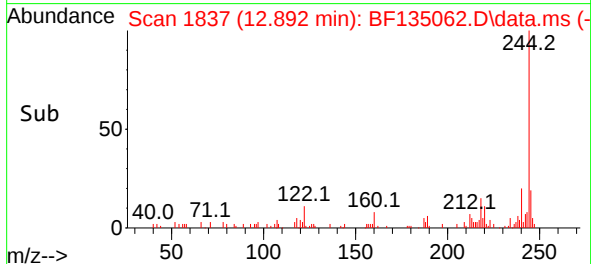
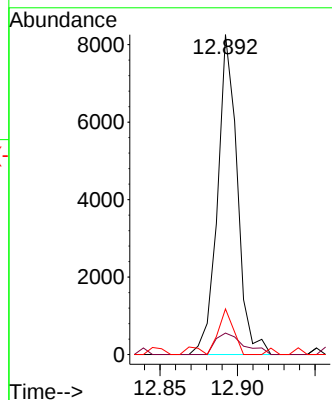
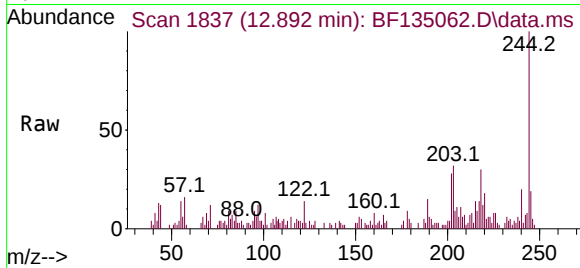




#79
 Terphenyl-d14
 Concen: 0.592 ng
 RT: 12.892 min Scan# 1839
 Delta R.T. -0.012 min
 Lab File: BF135062.D
 Acq: 01 Sep 2023 02:14

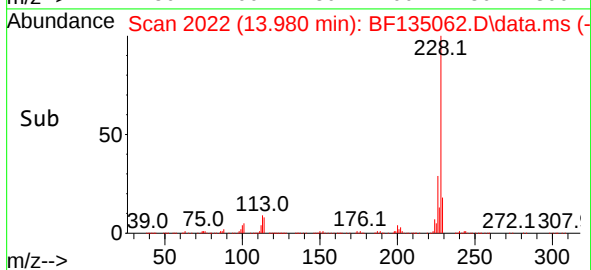
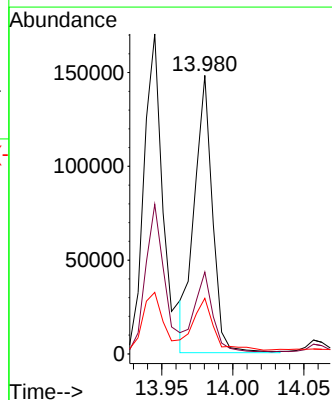
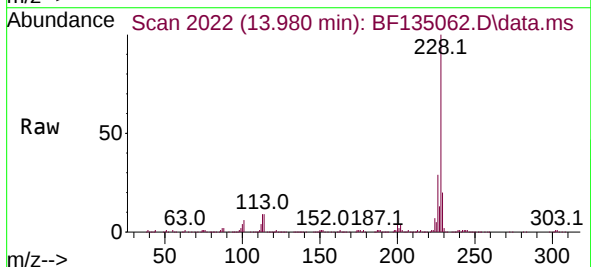
Instrument :
 BNA_F
 ClientSampleId :
 NEVINS-SB04-Z83-84DL

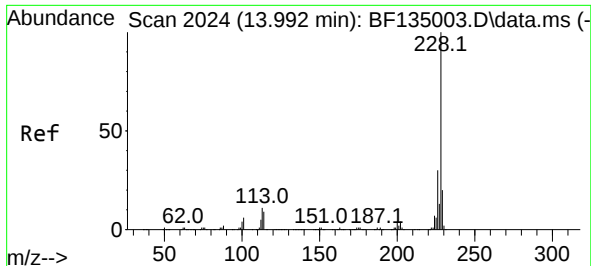
Tgt Ion:	244	Resp:	7337
Ion Ratio	Lower	Upper	
244	100		
212	6.7	5.6	8.4
122	14.3	9.8	14.6



#81
 Benzo(a)anthracene
 Concen: 9.460 ng
 RT: 13.980 min Scan# 2022
 Delta R.T. 0.024 min
 Lab File: BF135062.D
 Acq: 01 Sep 2023 02:14

Tgt Ion:	228	Resp:	130544
Ion Ratio	Lower	Upper	
228	100		
226	29.4	21.6	32.4
229	20.0	15.6	23.4

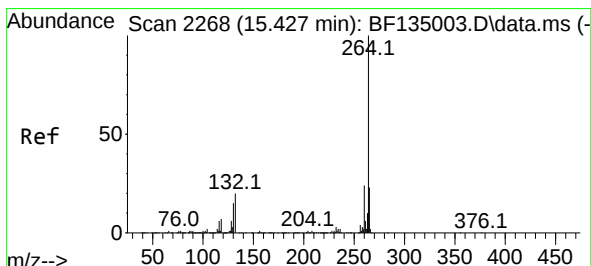
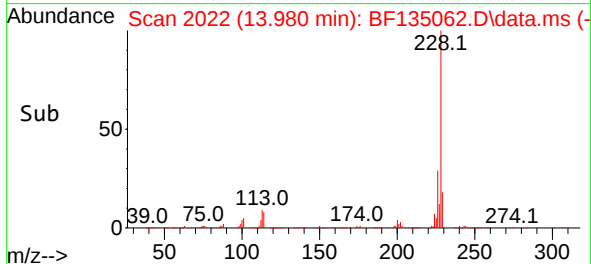
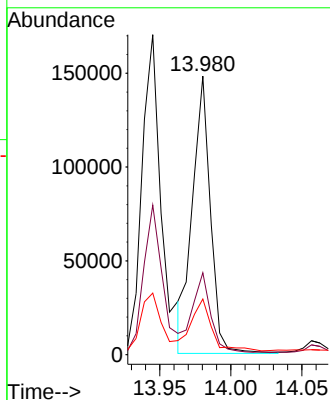
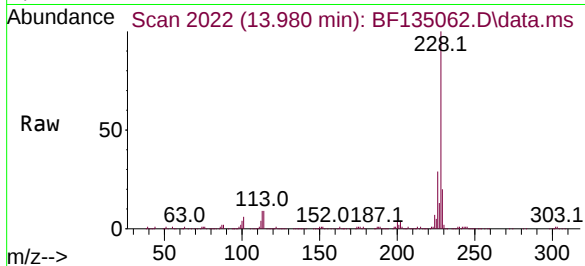




#83
Chrysene
Concen: 9.626 ng
RT: 13.980 min Scan# 20
Delta R.T. -0.012 min
Lab File: BF135062.D
Acq: 01 Sep 2023 02:14

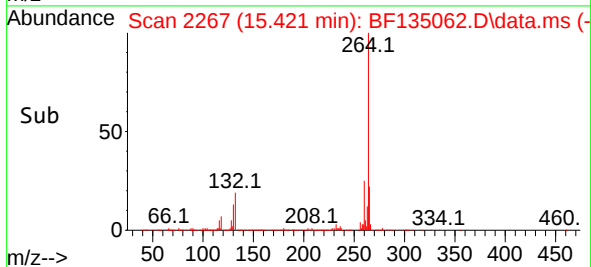
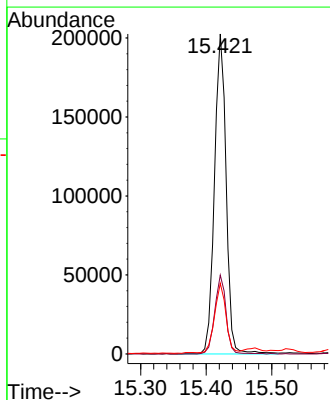
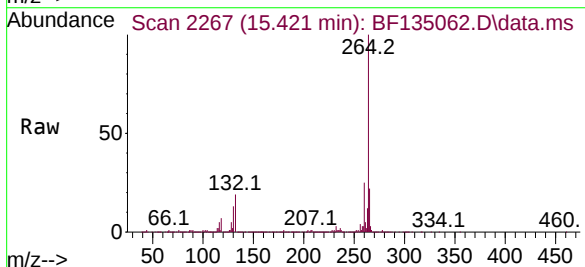
Instrument :
BNA_F
ClientSampleId :
NEVINS-SB04-Z83-84DL

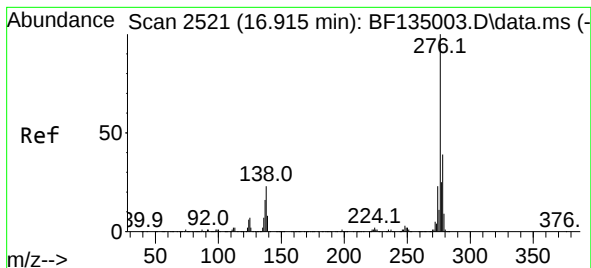
Tgt Ion:228 Resp: 130544
Ion Ratio Lower Upper
228 100
226 29.4 24.2 36.4
229 20.0 15.9 23.9



#86
Perylene-d12
Concen: 20.000 ng
RT: 15.421 min Scan# 2267
Delta R.T. -0.006 min
Lab File: BF135062.D
Acq: 01 Sep 2023 02:14

Tgt Ion:264 Resp: 251008
Ion Ratio Lower Upper
264 100
260 24.6 19.0 28.6
265 22.0 18.2 27.2





#87

Indeno(1,2,3-cd)pyrene

Concen: 2.087 ng

RT: 16.892 min Scan# 2117

Delta R.T. -0.023 min

Lab File: BF135062.D

Acq: 01 Sep 2023 02:14

Instrument :

BNA_F

ClientSampleId :

NEVINS-SB04-Z83-84DL

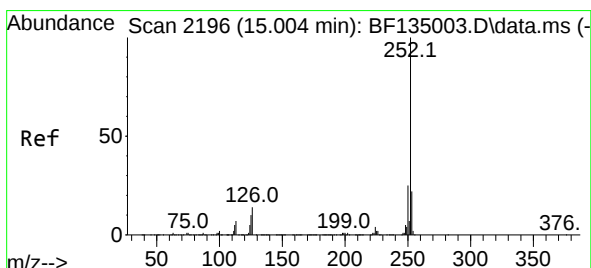
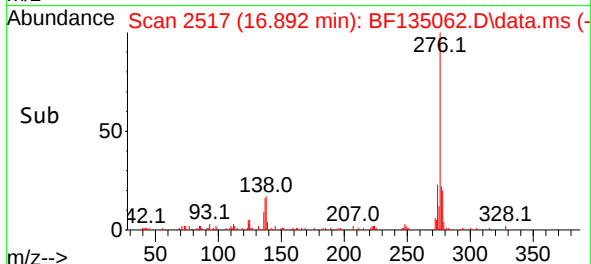
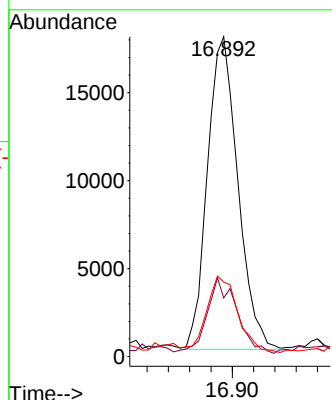
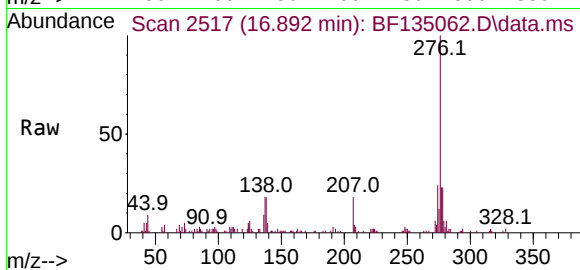
Tgt Ion:276 Resp: 35277

Ion Ratio Lower Upper

276 100

138 23.5 20.2 30.2

277 25.0 20.4 30.6



#88

Benzo(b)fluoranthene

Concen: 8.279 ng

RT: 14.992 min Scan# 2194

Delta R.T. -0.012 min

Lab File: BF135062.D

Acq: 01 Sep 2023 02:14

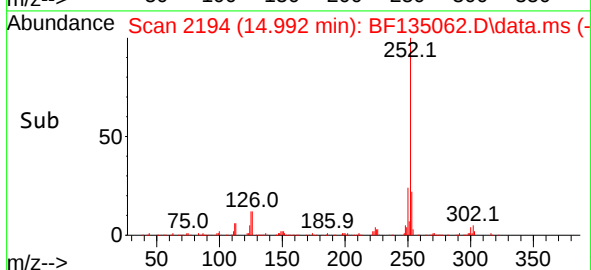
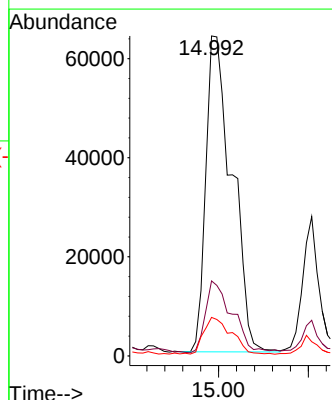
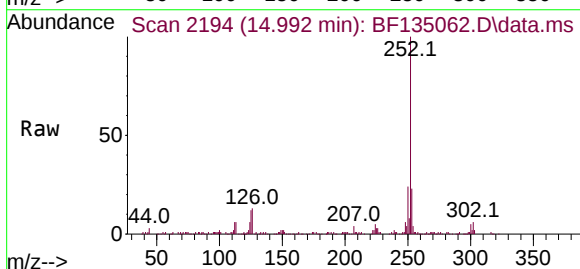
Tgt Ion:252 Resp: 129309

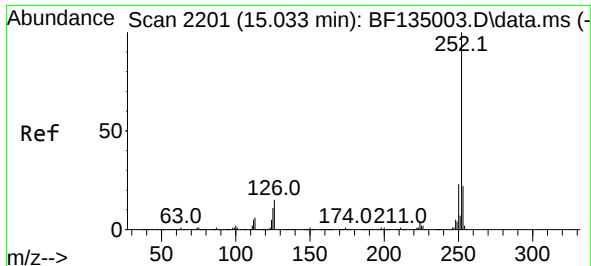
Ion Ratio Lower Upper

252 100

253 23.4 17.8 26.8

125 12.0 8.4 12.6





#89

Benzo(k)fluoranthene

Concen: 8.558 ng

RT: 14.992 min Scan# 2194

Delta R.T. -0.041 min

Lab File: BF135062.D

Acq: 01 Sep 2023 02:14

Instrument :

BNA_F

ClientSampleId :

NEVINS-SB04-Z83-84DL

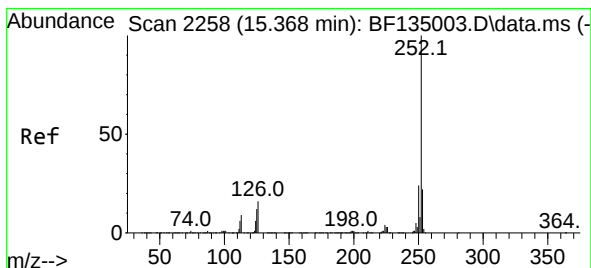
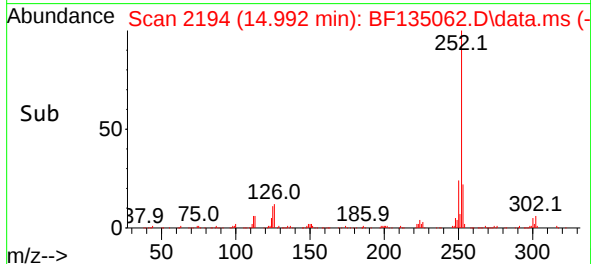
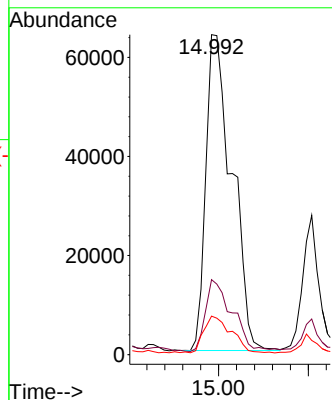
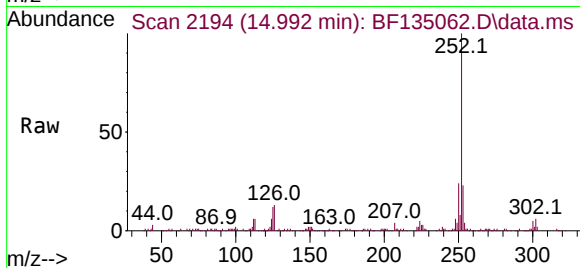
Tgt Ion:252 Resp: 129124

Ion Ratio Lower Upper

252 100

253 23.4 17.4 26.0

125 12.0 8.5 12.7



#90

Benzo(a)pyrene

Concen: 8.779 ng

RT: 15.357 min Scan# 2256

Delta R.T. -0.012 min

Lab File: BF135062.D

Acq: 01 Sep 2023 02:14

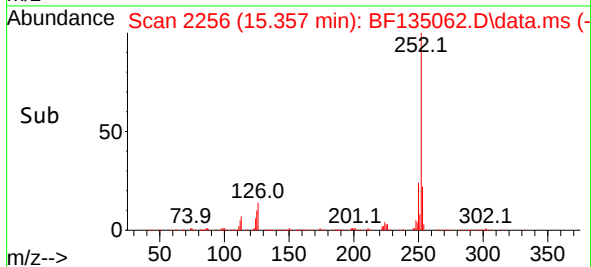
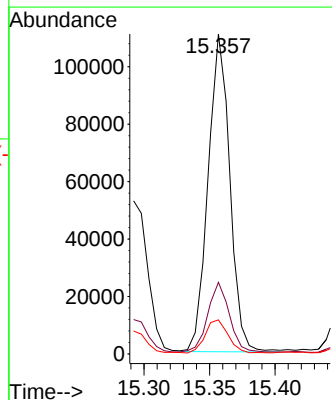
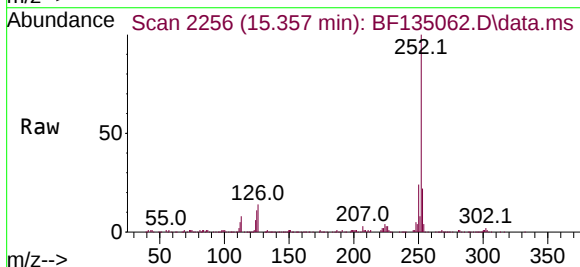
Tgt Ion:252 Resp: 127368

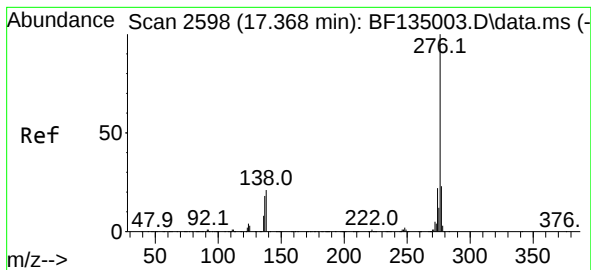
Ion Ratio Lower Upper

252 100

253 22.4 17.4 26.0

125 10.7 9.5 14.3





#92

Benzo(g,h,i)perylene

Concen: 2.661 ng

RT: 17.333 min Scan# 21

Delta R.T. -0.035 min

Lab File: BF135062.D

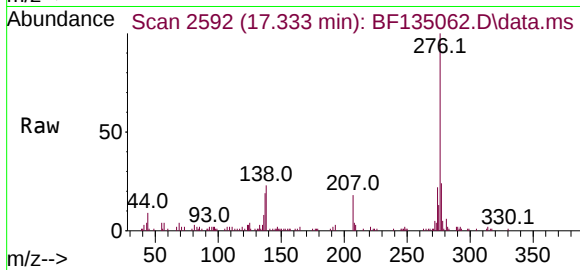
Acq: 01 Sep 2023 02:14

Instrument :

BNA_F

ClientSampleId :

NEVINS-SB04-Z83-84DL



Tgt Ion:276 Resp: 37901

Ion Ratio Lower Upper

276 100

277 23.9 18.5 27.7

138 23.0 17.1 25.7

