

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF092923\
 Data File : BF135522.D
 Acq On : 29 Sep 2023 18:17
 Operator : CG\JU
 Sample : 04622-02
 Misc :
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 I-4(0-5)

Quant Time: Sep 30 00:24:14 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF091123.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Sat Sep 30 00:12:20 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.751	152	131543	20.000	ng	0.00
21) Naphthalene-d8	8.039	136	266228	20.000	ng	# 0.01
39) Acenaphthene-d10	9.792	164	213744	20.000	ng	0.00
64) Phenanthrene-d10	11.298	188	181112	20.000	ng	# 0.02
76) Chrysene-d12	14.009	240	76220	20.000	ng	# 0.08
86) Perylene-d12	15.480	264	167000	20.000	ng	# 0.09
System Monitoring Compounds						
5) 2-Fluorophenol	5.387	112	650833	80.471	ng	0.00
7) Phenol-d6	6.404	99	762744	74.168	ng	0.00
23) Nitrobenzene-d5	7.316	82	409202	83.506	ng	0.00
42) 2,4,6-Tribromophenol	10.604	330	91648	43.147	ng	0.02
45) 2-Fluorobiphenyl	9.110	172	663723	46.849	ng	0.00
79) Terphenyl-d14	12.915	244	362144	73.654	ng	0.04
Target Compounds						Qvalue
3) Pyridine	3.204	79	20084	2.105	ng	# 51
9) Benzaldehyde	6.304	77	25821	4.407	ng	# 1
10) Phenol	6.422	94	52810	4.683	ng	# 65
11) bis(2-Chloroethyl)ether	6.428	93	18228	2.155	ng	98
17) 2-Methylphenol	7.186	107	62268	8.173	ng	87
18) Hexachloroethane	7.257	117	61395	18.613	ng	# 7
20) 3+4-Methylphenols	7.186	107	62268	6.797	ng	# 66
22) Acetophenone	7.163	105	63980	10.512	ng	# 88
24) Nitrobenzene	7.310	77	22781	4.704	ng	# 1
26) 2-Nitrophenol	7.628	139	26688	11.481	ng	# 1
27) 2,4-Dimethylphenol	7.716	122	21445	5.488	ng	94
31) Naphthalene	8.104	128	13163259	1017.629	ng	95
32) Benzoic acid	7.851	122	22491	7.644	ng	# 51
33) 4-Chloroaniline	8.104	127	1912349	336.964	ng	# 33
35) Caprolactam	8.516	113	17568	14.458	ng	# 55
37) 2-Methylnaphthalene	8.780	142	4608651	530.034	ng	99
38) 1-Methylnaphthalene	8.875	142	3618403	444.488	ng	99
46) 1,1'-Biphenyl	9.216	154	2149645	130.869	ng	97
47) 2-Chloronaphthalene	9.286	162	341798	28.679	ng	# 47
48) 2-Nitroaniline	9.316	65	19709	4.257	ng	# 40
49) Acenaphthylene	9.669	152	2592370	130.883	ng	# 95
51) 2,6-Dinitrotoluene	9.639	165	9819	3.102	ng	# 35
52) Acenaphthene	9.839	154	1649661	140.988	ng	96
54) 2,4-Dinitrophenol	9.857	184	5733	9.188	ng	# 1
55) Dibenzofuran	10.022	168	3875872	217.073	ng	95
56) 4-Nitrophenol	9.904	139	48782	20.655	ng	# 62
57) 2,4-Dinitrotoluene	10.010	165	17122	4.320	ng	# 1
58) Fluorene	10.380	166	5144245	374.770	ng	99
63) Azobenzene	10.516	77	54075	3.810	ng	# 1
65) 4,6-Dinitro-2-methylph...	10.404	198	5100	5.302	ng	# 1
66) n-Nitrosodiphenylamine	10.463	169	178775	32.605	ng	# 32
71) Phenanthrene	11.398	178	15395777	1797.350	ng	96
72) Anthracene	11.398	178	15395777	1748.579	ng	96
73) Carbazole	11.557	167	2251931	280.959	ng	99
75) Fluoranthene	12.610	202	11103575	1244.028	ng	95
77) Benzdine	12.663	184	7549	4.834	ng	# 1

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

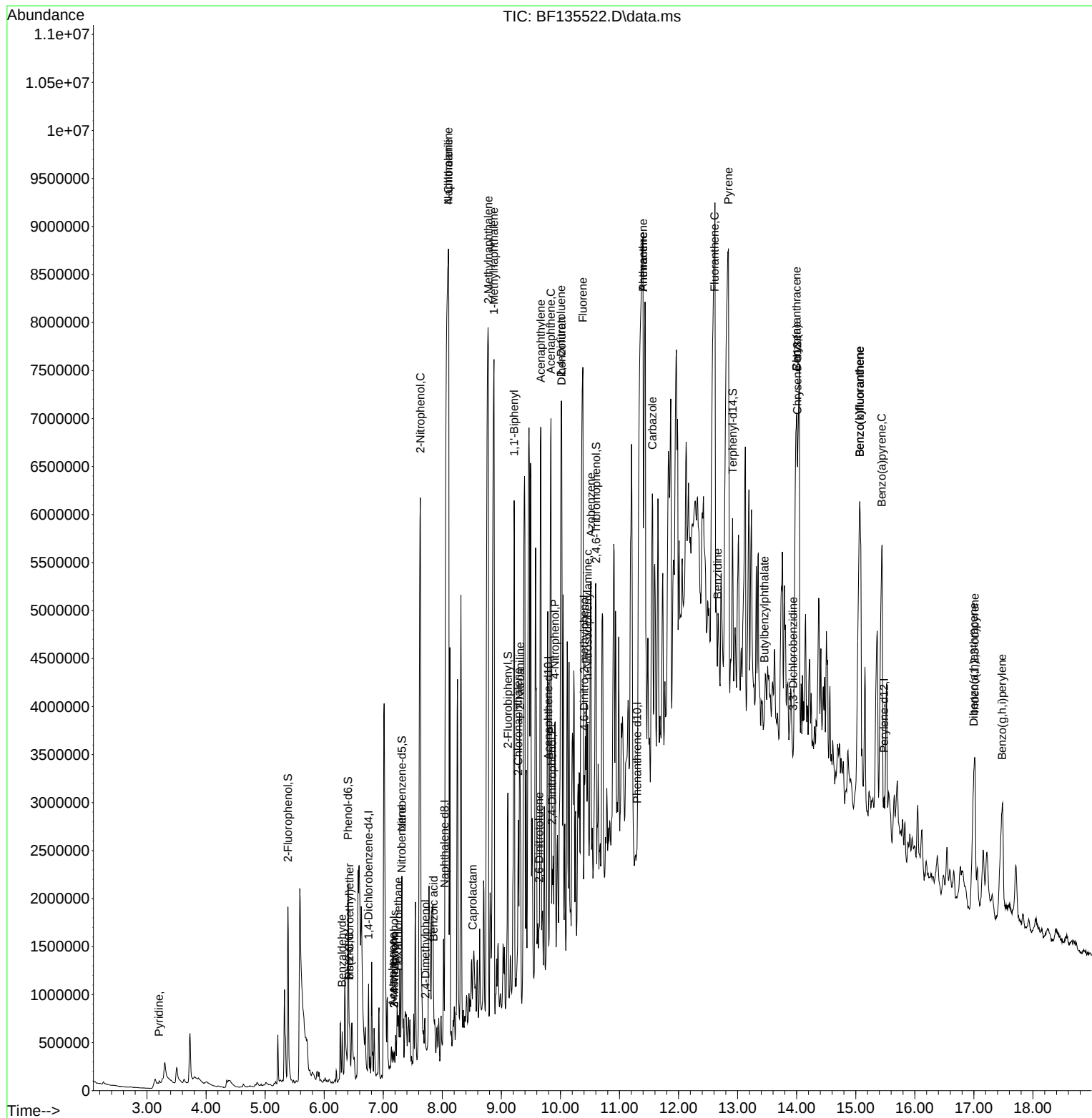
78) Pyrene	12.845	202	9584958	1320.838	ng	96
80) Butylbenzylphthalate	13.457	149	9553	3.739	ng #	32
81) Benzo(a)anthracene	13.998	228	5836829	1185.931	ng	94
82) 3,3'-Dichlorobenzidine	13.939	252	7020	4.566	ng #	1
83) Chrysene	13.998	228	5836829	1192.813	ng	96
87) Indeno(1,2,3-cd)pyrene	17.015	276	2245614	205.086	ng	95
88) Benzo(b)fluoranthene	15.068	252	5974144	660.834	ng	96
89) Benzo(k)fluoranthene	15.068	252	5974144	668.981	ng	97
90) Benzo(a)pyrene	15.439	252	3720396	431.543	ng	97
91) Dibenzo(a,h)anthracene	16.998	278	589781	65.830	ng #	90
92) Benzo(g,h,i)perylene	17.480	276	1985001	212.148	ng	96

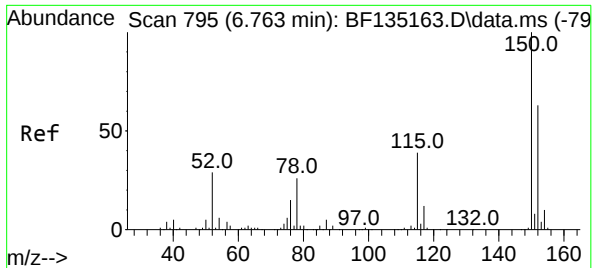
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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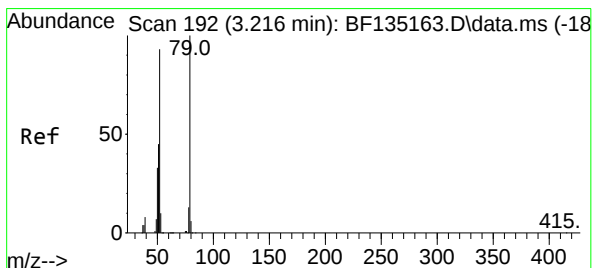
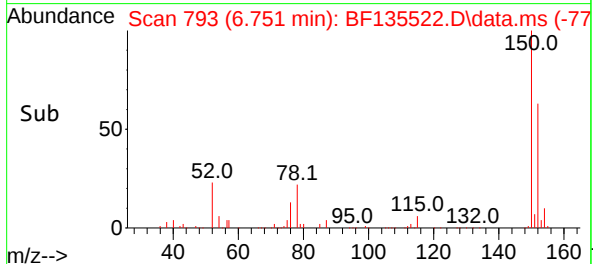
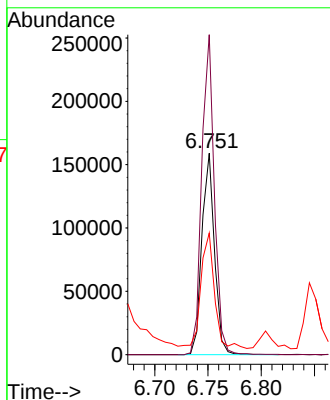
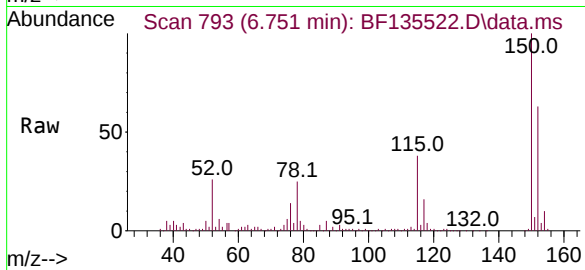




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.751 min Scan# 79
Delta R.T. 0.000 min
Lab File: BF135522.D
Acq: 29 Sep 2023 18:17

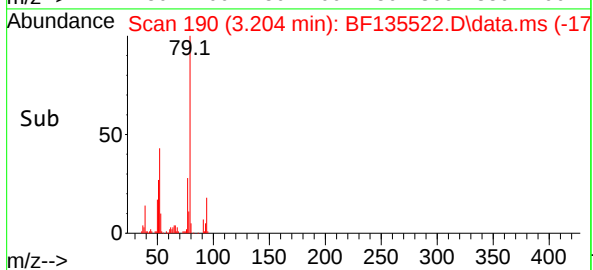
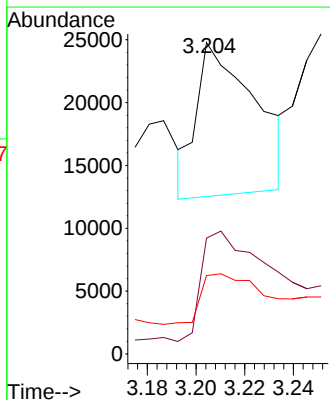
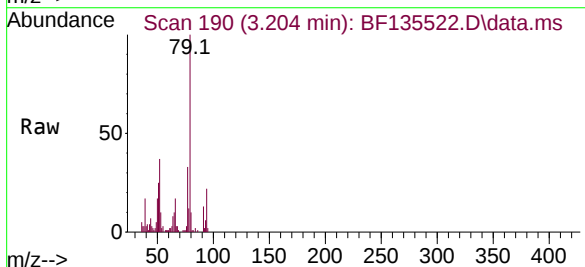
Instrument :
BNA_F
ClientSampleId :
I-4(0-5)

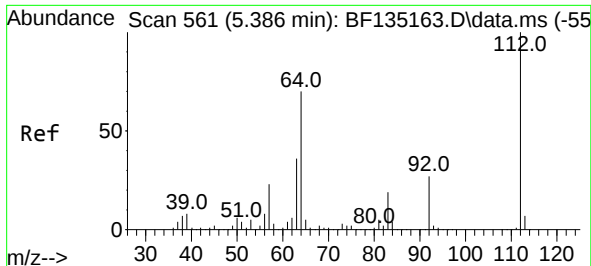
Tgt Ion:152 Resp: 131543
Ion Ratio Lower Upper
152 100
150 158.9 127.8 191.6
115 60.4 49.8 74.8



#3
Pyridine
Concen: 2.105 ng
RT: 3.204 min Scan# 190
Delta R.T. 0.006 min
Lab File: BF135522.D
Acq: 29 Sep 2023 18:17

Tgt Ion: 79 Resp: 20084
Ion Ratio Lower Upper
79 100
52 37.2 74.1 111.1#
51 25.2 35.8 53.8#

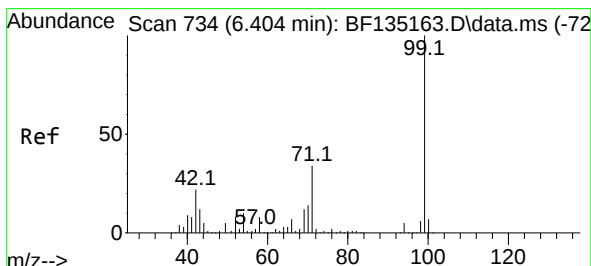
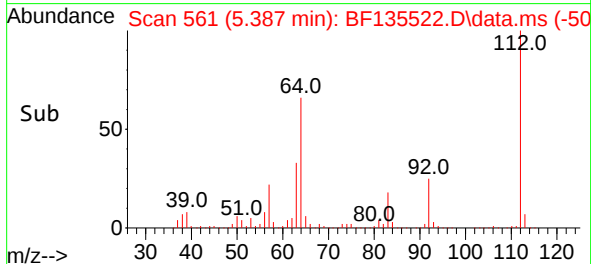
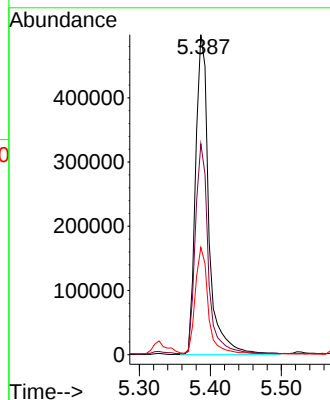
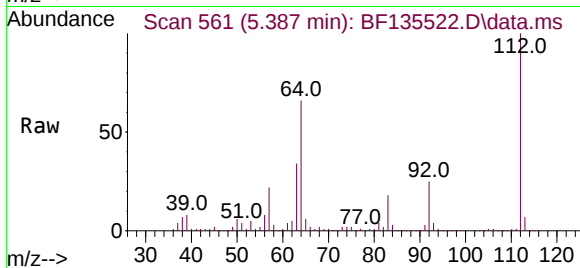




#5
2-Fluorophenol
Concen: 80.471 ng
RT: 5.387 min Scan# 50
Delta R.T. 0.006 min
Lab File: BF135522.D
Acq: 29 Sep 2023 18:17

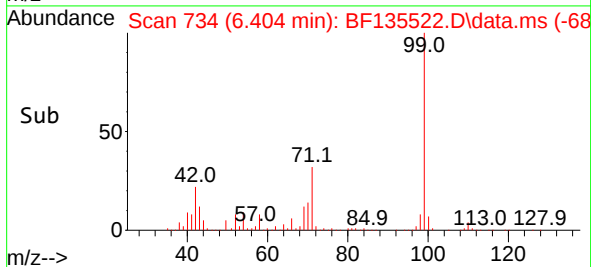
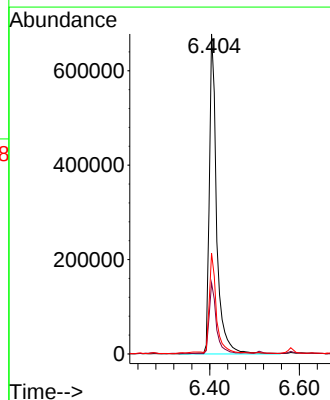
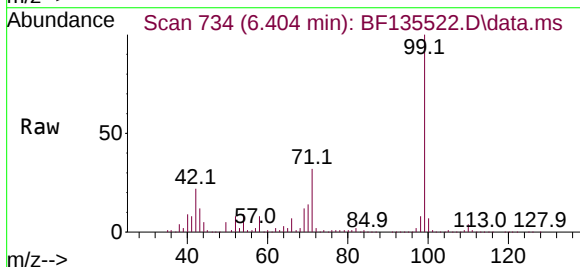
Instrument :
BNA_F
ClientSampleId :
I-4(0-5)

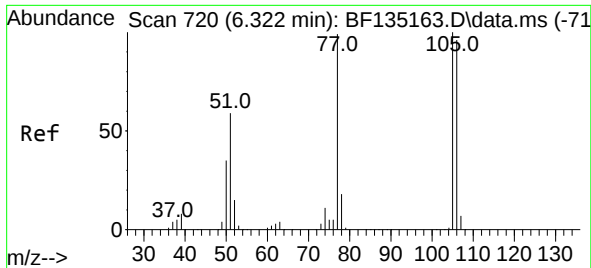
Tgt Ion:112 Resp: 650833
Ion Ratio Lower Upper
112 100
64 65.9 55.9 83.9
63 33.6 29.0 43.6



#7
Phenol-d6
Concen: 74.168 ng
RT: 6.404 min Scan# 734
Delta R.T. -0.000 min
Lab File: BF135522.D
Acq: 29 Sep 2023 18:17

Tgt Ion: 99 Resp: 762744
Ion Ratio Lower Upper
99 100
42 22.2 17.9 26.9
71 31.5 27.0 40.6





#9

Benzaldehyde

Concen: 4.407 ng

RT: 6.304 min Scan# 717

Delta R.T. -0.000 min

Lab File: BF135522.D

Acq: 29 Sep 2023 18:17

Instrument :

BNA_F

ClientSampleId :

I-4(0-5)

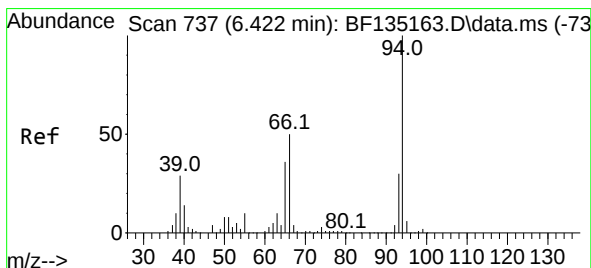
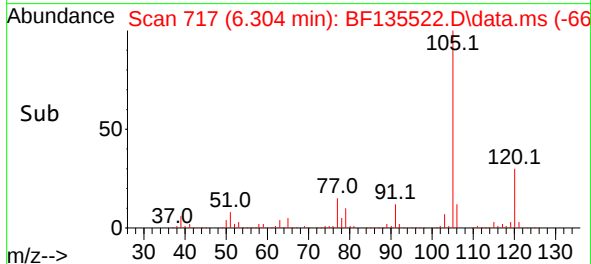
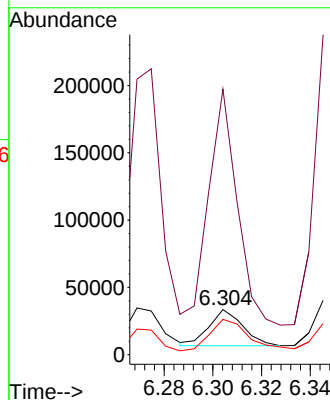
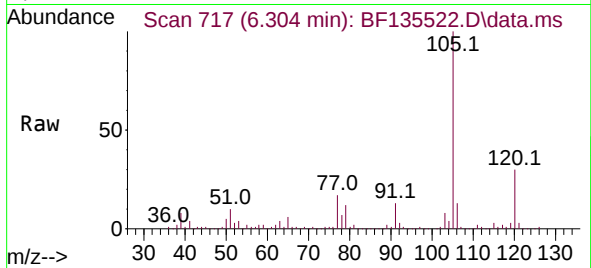
Tgt Ion: 77 Resp: 25821

Ion Ratio Lower Upper

77 100

105 588.5 81.4 121.4#

106 78.4 76.9 116.9



#10

Phenol

Concen: 4.683 ng

RT: 6.422 min Scan# 737

Delta R.T. 0.006 min

Lab File: BF135522.D

Acq: 29 Sep 2023 18:17

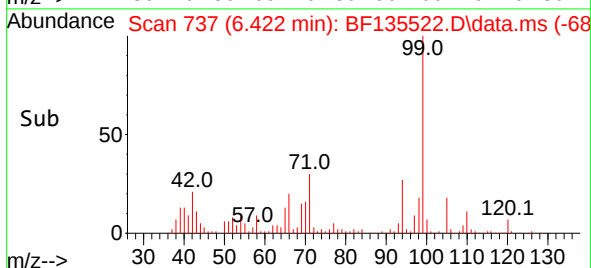
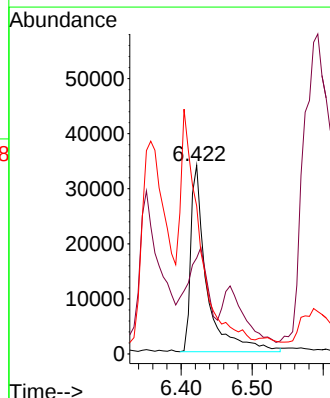
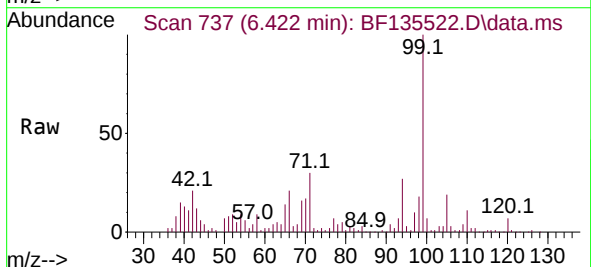
Tgt Ion: 94 Resp: 52810

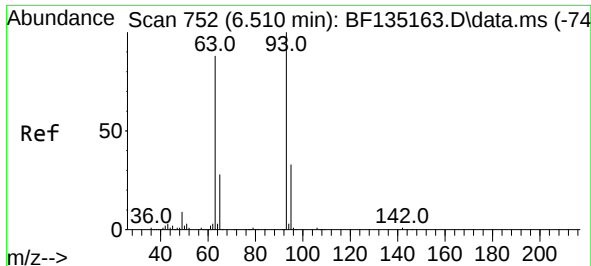
Ion Ratio Lower Upper

94 100

65 50.9 15.9 55.9

66 78.5 29.8 69.8#





#11

bis(2-Chloroethyl)ether

Concen: 2.155 ng

RT: 6.428 min Scan# 71

Delta R.T. -0.065 min

Lab File: BF135522.D

Acq: 29 Sep 2023 18:17

Instrument :

BNA_F

ClientSampleId :

I-4(0-5)

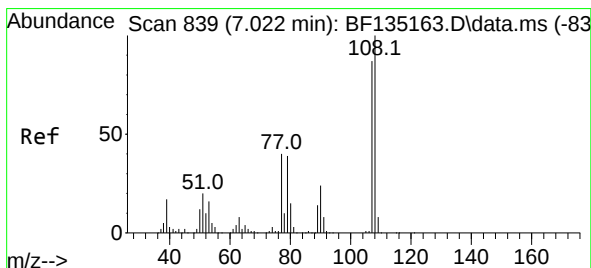
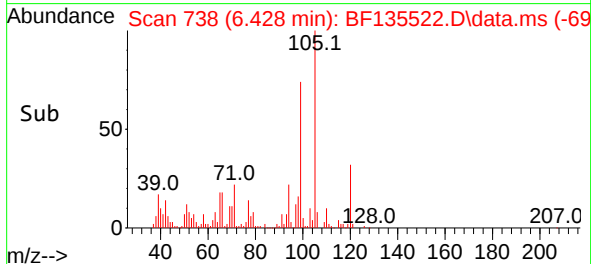
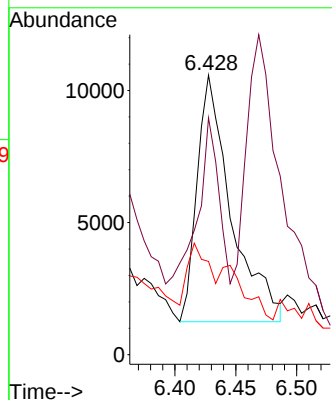
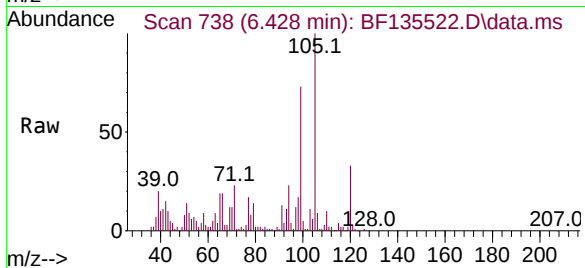
Tgt Ion: 93 Resp: 18228

Ion Ratio Lower Upper

93 100

63 84.7 67.3 107.3

95 33.4 12.7 52.7



#17

2-Methylphenol

Concen: 8.173 ng

RT: 7.186 min Scan# 867

Delta R.T. 0.170 min

Lab File: BF135522.D

Acq: 29 Sep 2023 18:17

Tgt Ion:107 Resp: 62268

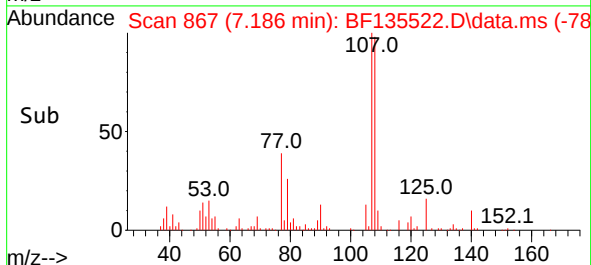
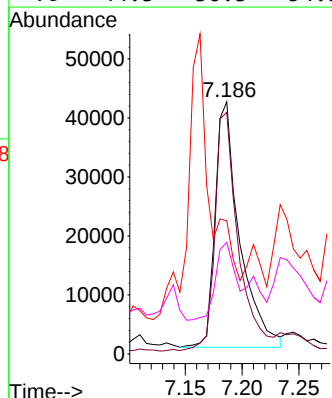
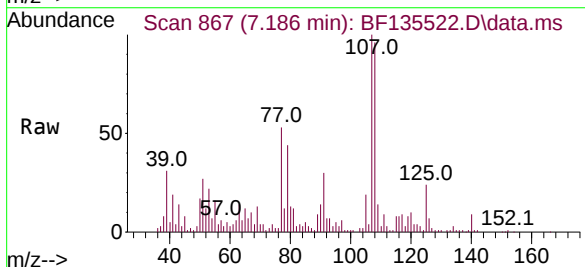
Ion Ratio Lower Upper

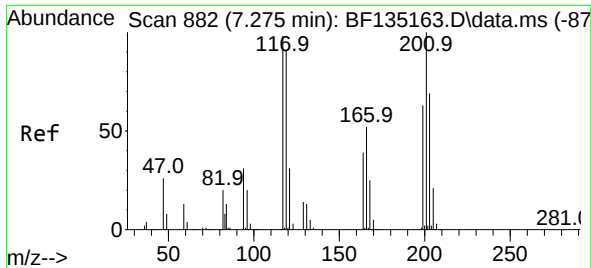
107 100

108 95.8 92.0 138.0

77 52.8 36.7 55.1

79 44.3 36.3 54.5

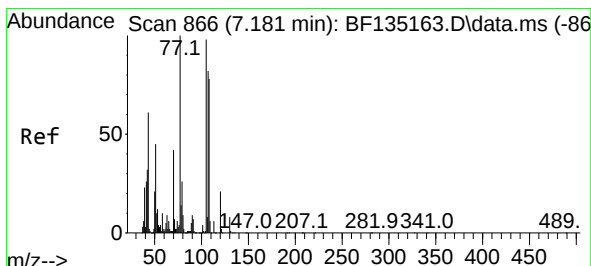
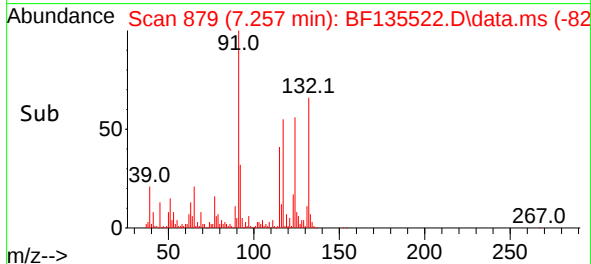
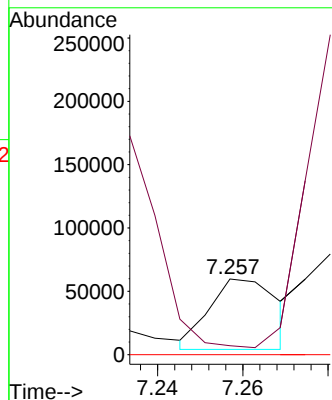
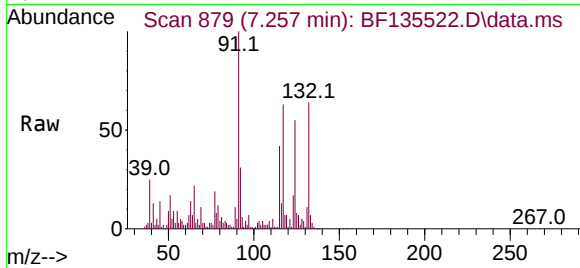




#18
Hexachloroethane
Concen: 18.613 ng
RT: 7.257 min Scan# 81
Delta R.T. 0.006 min
Lab File: BF135522.D
Acq: 29 Sep 2023 18:17

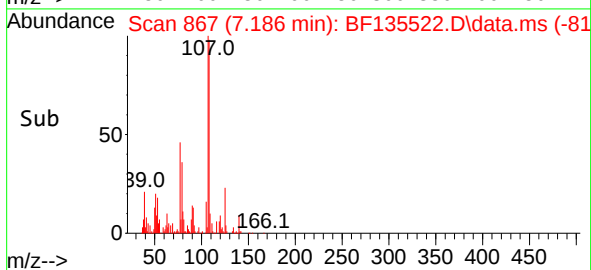
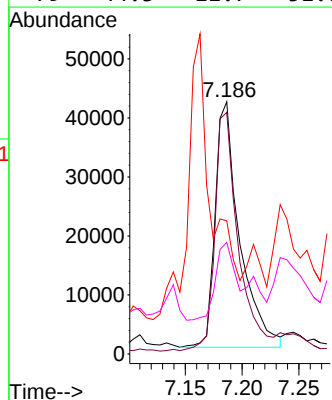
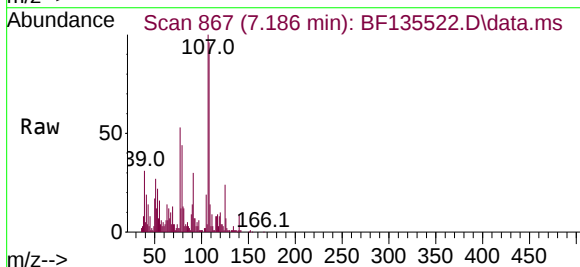
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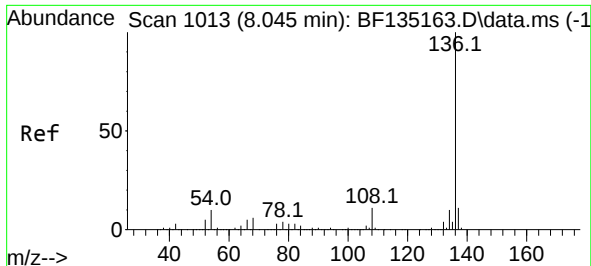
Tgt Ion:117 Resp: 61395
Ion Ratio Lower Upper
117 100
119 11.8 74.7 112.1#
201 0.0 81.8 122.8#



#20
3+4-Methylphenols
Concen: 6.797 ng
RT: 7.186 min Scan# 867
Delta R.T. 0.012 min
Lab File: BF135522.D
Acq: 29 Sep 2023 18:17

Tgt Ion:107 Resp: 62268
Ion Ratio Lower Upper
107 100
108 95.8 74.7 114.7
77 52.8 102.0 142.0#
79 44.3 11.7 51.7

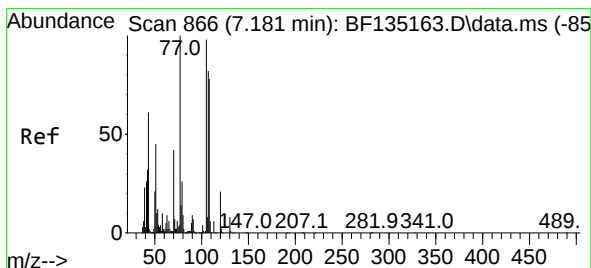
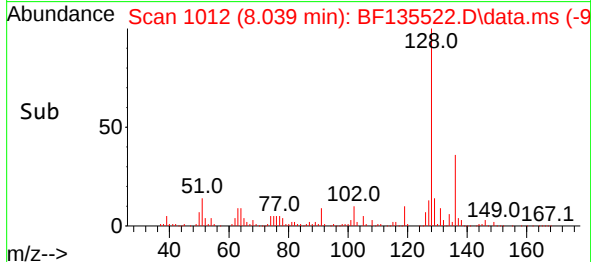
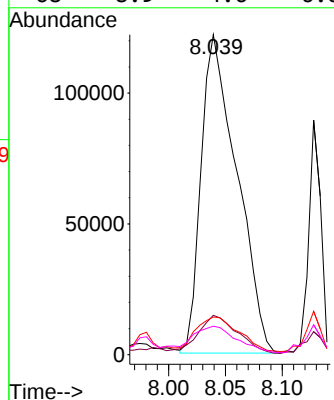
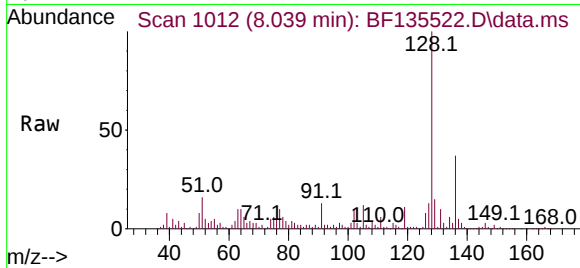




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.039 min Scan# 1013
Delta R.T. 0.012 min
Lab File: BF135522.D
Acq: 29 Sep 2023 18:17

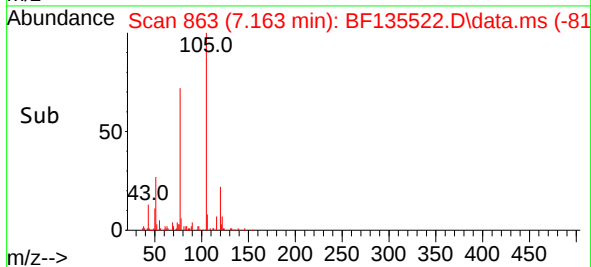
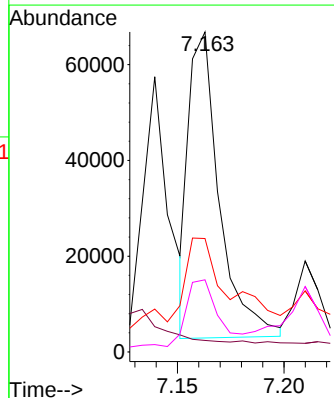
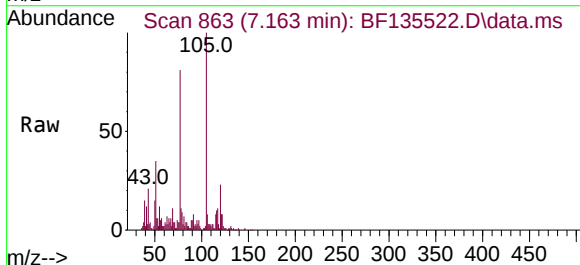
Instrument :
BNA_F
ClientSampleId :
I-4(0-5)

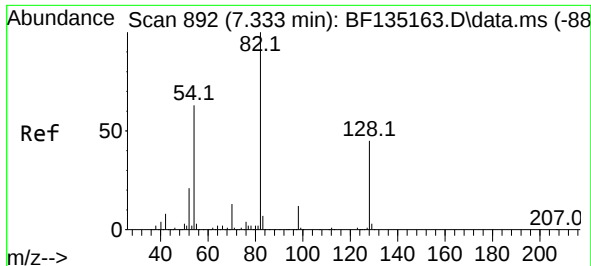
Tgt Ion:136 Resp: 266228
Ion Ratio Lower Upper
136 100
137 12.3 8.8 13.2
54 11.8 7.7 11.5#
68 8.9 4.6 6.8#



#22
Acetophenone
Concen: 10.512 ng
RT: 7.163 min Scan# 863
Delta R.T. -0.000 min
Lab File: BF135522.D
Acq: 29 Sep 2023 18:17

Tgt Ion:105 Resp: 63980
Ion Ratio Lower Upper
105 100
71 3.6 5.8 8.6#
51 35.5 37.0 55.4#
120 22.6 17.0 25.6





#23

Nitrobenzene-d5

Concen: 83.506 ng

RT: 7.316 min Scan# 889

Delta R.T. -0.006 min

Lab File: BF135522.D

Acq: 29 Sep 2023 18:17

Instrument :

BNA_F

ClientSampleId :

I-4(0-5)

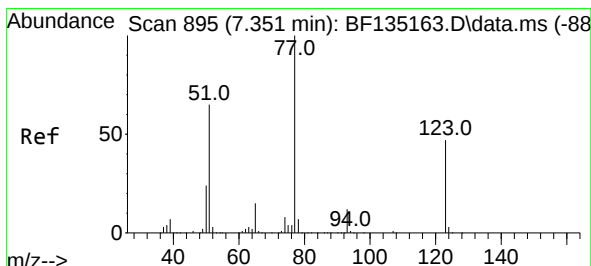
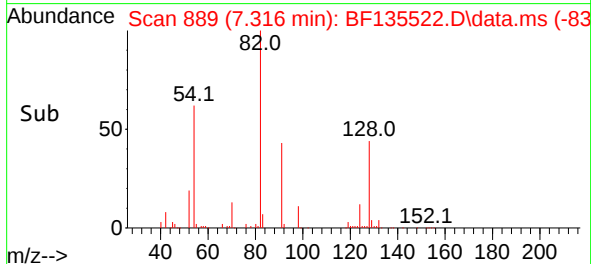
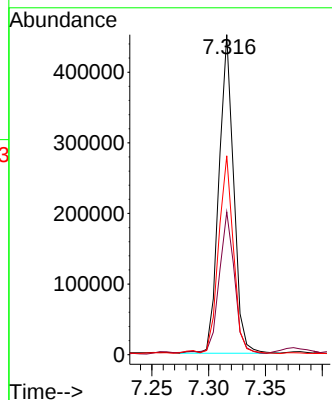
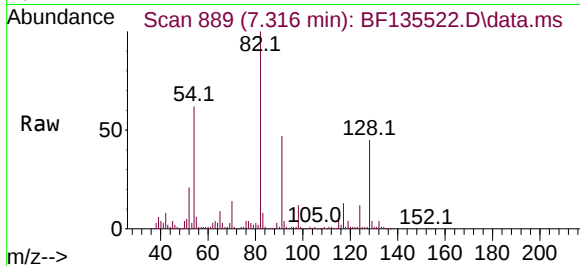
Tgt Ion: 82 Resp: 409202

Ion Ratio Lower Upper

82 100

128 44.6 35.8 53.6

54 62.1 50.6 76.0



#24

Nitrobenzene

Concen: 4.704 ng

RT: 7.310 min Scan# 888

Delta R.T. -0.030 min

Lab File: BF135522.D

Acq: 29 Sep 2023 18:17

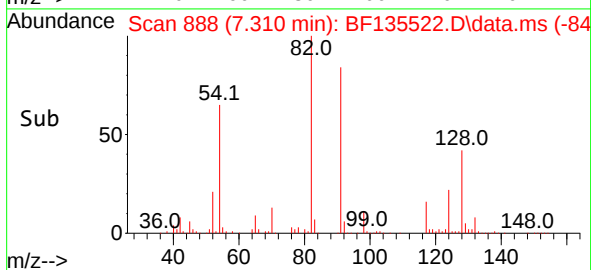
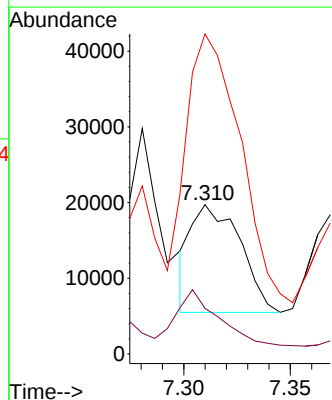
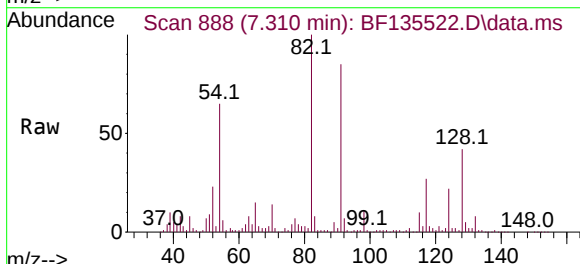
Tgt Ion: 77 Resp: 22781

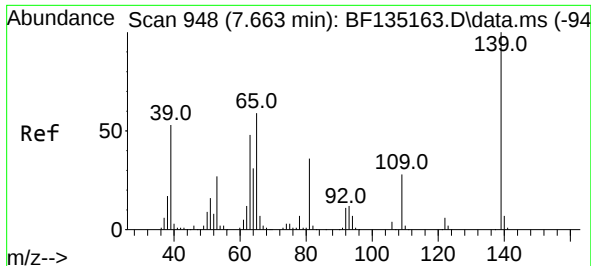
Ion Ratio Lower Upper

77 100

123 30.5 37.6 56.4#

65 214.3 12.2 18.4#

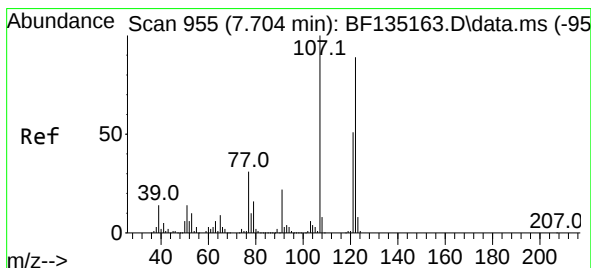
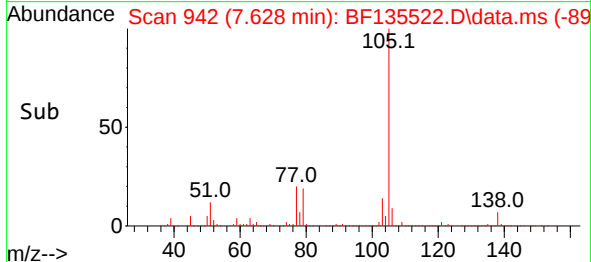
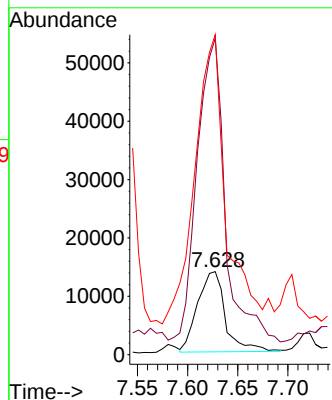
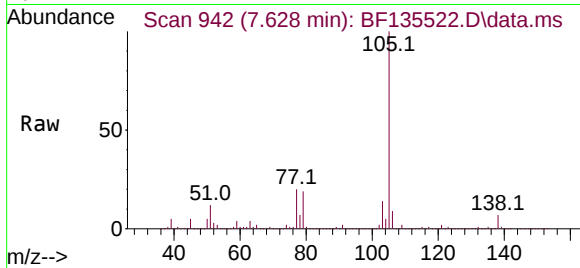




#26
2-Nitrophenol
Concen: 11.481 ng
RT: 7.628 min Scan# 941
Delta R.T. -0.024 min
Lab File: BF135522.D
Acq: 29 Sep 2023 18:17

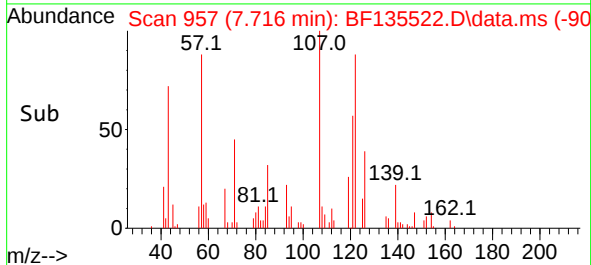
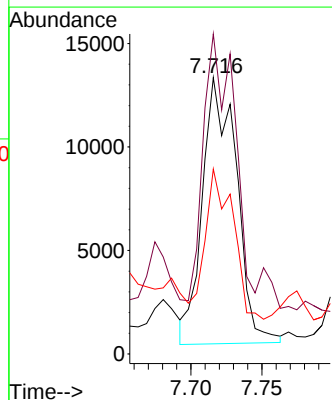
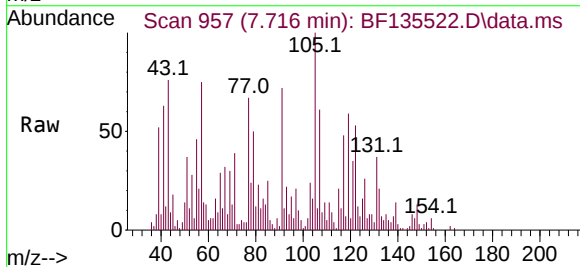
Instrument :
BNA_F
ClientSampleId :
I-4(0-5)

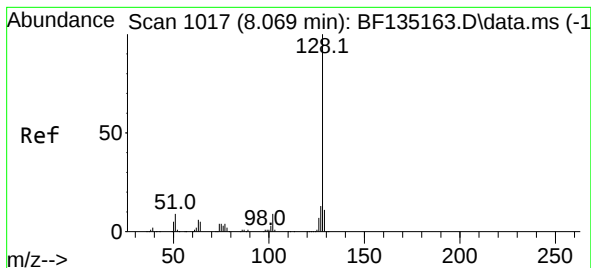
Tgt Ion:139 Resp: 26688
Ion Ratio Lower Upper
139 100
109 381.1 22.6 33.8#
65 385.6 47.0 70.4#



#27
2,4-Dimethylphenol
Concen: 5.488 ng
RT: 7.716 min Scan# 957
Delta R.T. 0.023 min
Lab File: BF135522.D
Acq: 29 Sep 2023 18:17

Tgt Ion:122 Resp: 21445
Ion Ratio Lower Upper
122 100
107 115.8 90.2 135.4
121 66.9 46.3 69.5





#31

Naphthalene

Concen: 1017.629 ng

RT: 8.104 min Scan# 1

Delta R.T. 0.053 min

Lab File: BF135522.D

Acq: 29 Sep 2023 18:17

Instrument :

BNA_F

ClientSampleId :

I-4(0-5)

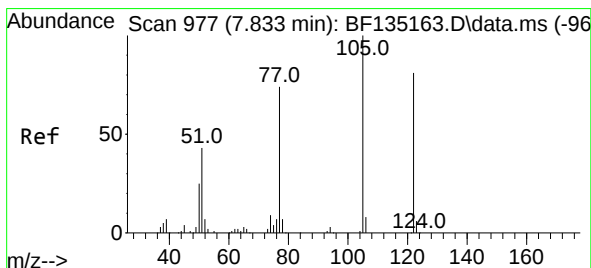
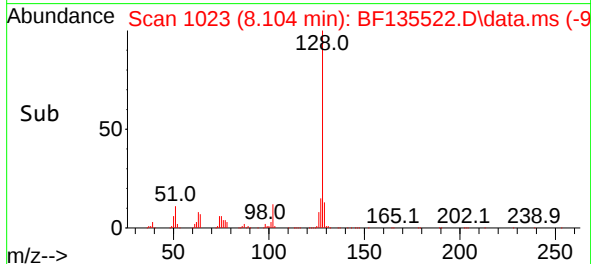
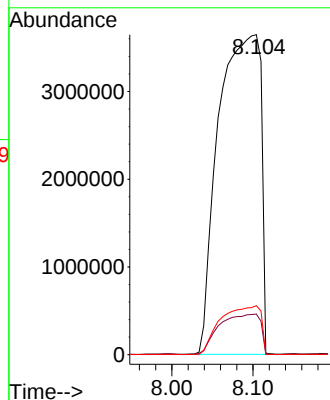
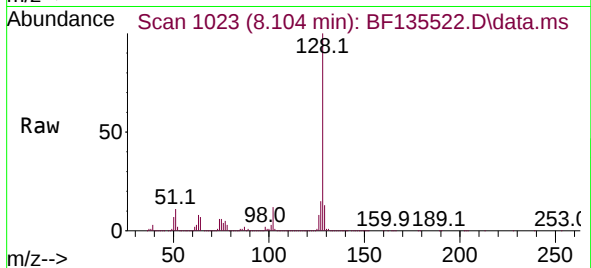
Tgt Ion:128 Resp:13163259

Ion Ratio Lower Upper

128 100

129 12.7 8.7 13.1

127 15.3 10.7 16.1



#32

Benzoic acid

Concen: 7.644 ng

RT: 7.851 min Scan# 980

Delta R.T. 0.012 min

Lab File: BF135522.D

Acq: 29 Sep 2023 18:17

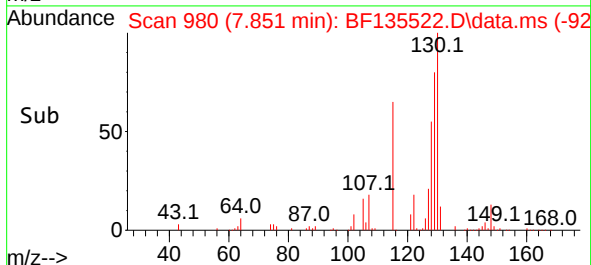
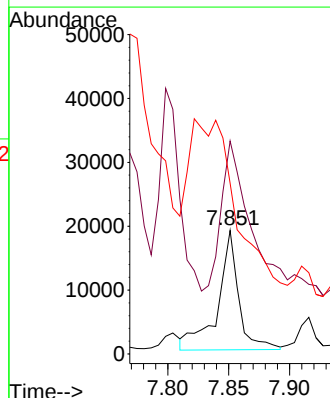
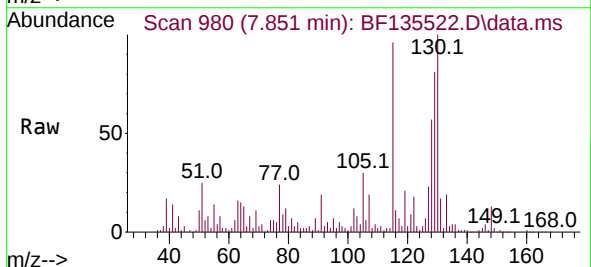
Tgt Ion:122 Resp: 22491

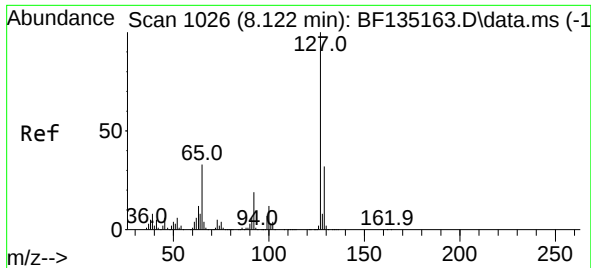
Ion Ratio Lower Upper

122 100

105 172.3 99.9 139.9#

77 138.2 70.0 110.0#



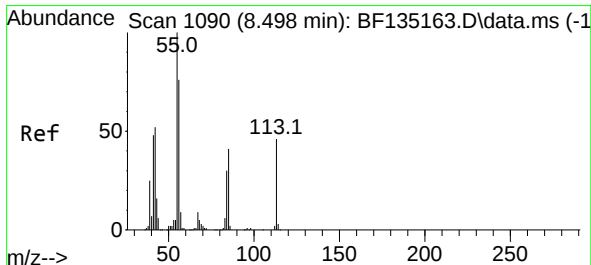
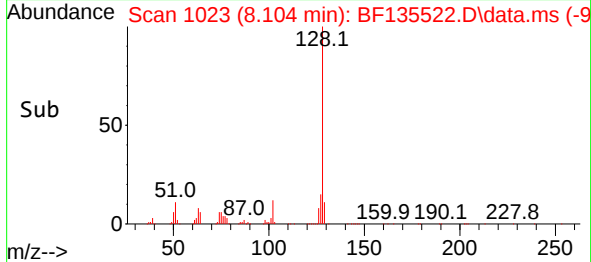
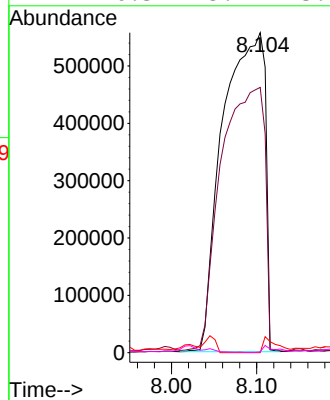
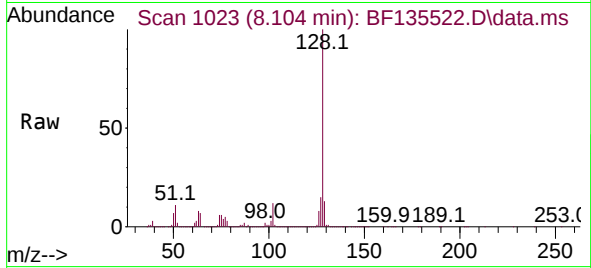


#33
4-Chloroaniline
Concen: 336.964 ng
RT: 8.104 min Scan# 1023
Delta R.T. -0.006 min
Lab File: BF135522.D
Acq: 29 Sep 2023 18:17

Instrument : BNA_F
ClientSampleId : I-4(0-5)

Tgt Ion:127 Resp: 1912349

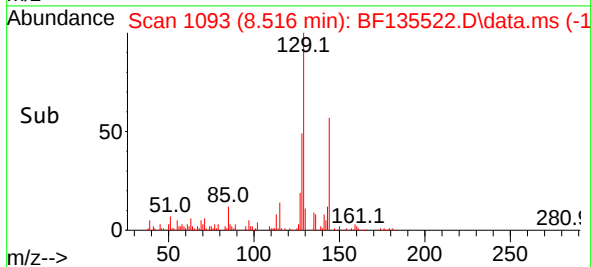
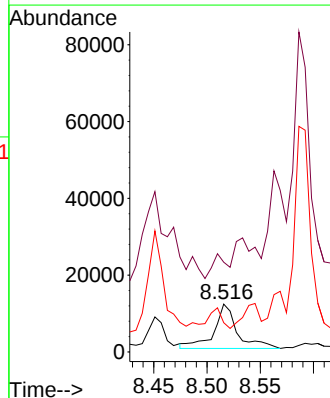
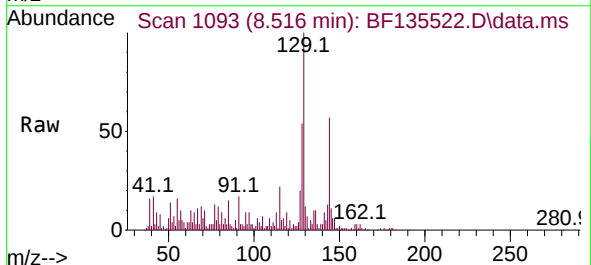
Ion	Ratio	Lower	Upper
127	100		
129	82.9	25.8	38.8#
65	0.0	26.6	39.8#
92	0.3	15.4	23.2#

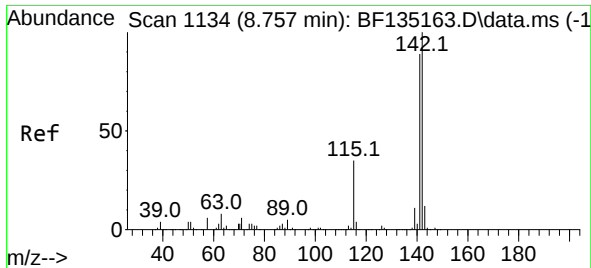


#35
Caprolactam
Concen: 14.458 ng
RT: 8.516 min Scan# 1093
Delta R.T. 0.023 min
Lab File: BF135522.D
Acq: 29 Sep 2023 18:17

Tgt Ion:113 Resp: 17568

Ion	Ratio	Lower	Upper
113	100		
55	187.9	199.3	239.3#
56	61.3	146.3	186.3#

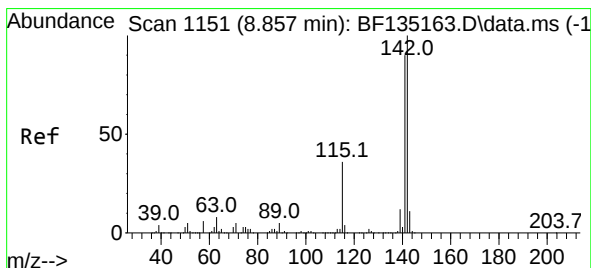
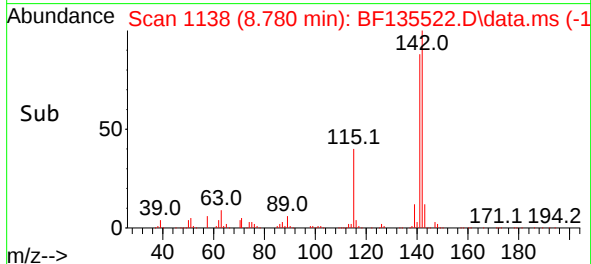
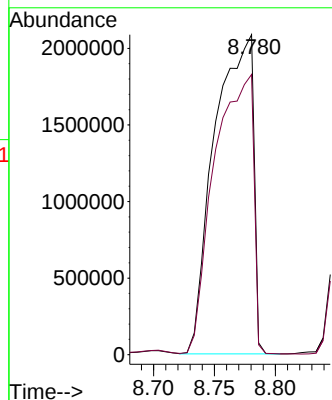
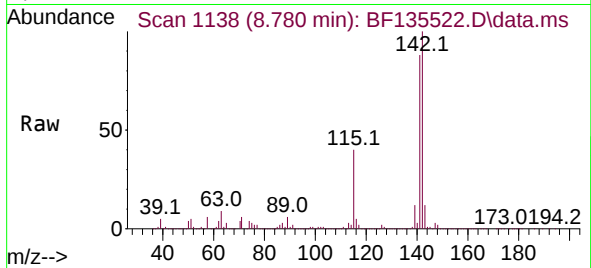




#37
2-Methylnaphthalene
Concen: 530.034 ng
RT: 8.780 min Scan# 1134
Delta R.T. 0.041 min
Lab File: BF135522.D
Acq: 29 Sep 2023 18:17

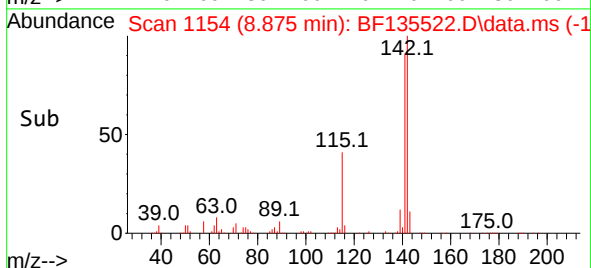
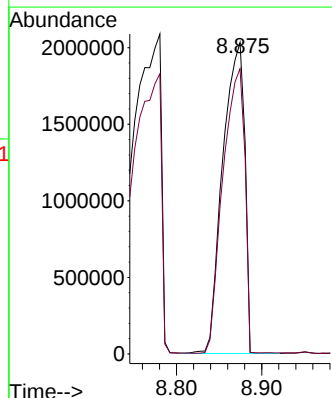
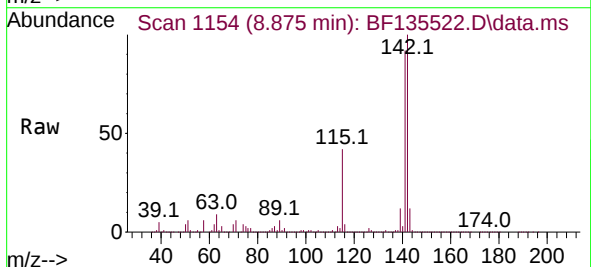
Instrument :
BNA_F
ClientSampleId :
I-4(0-5)

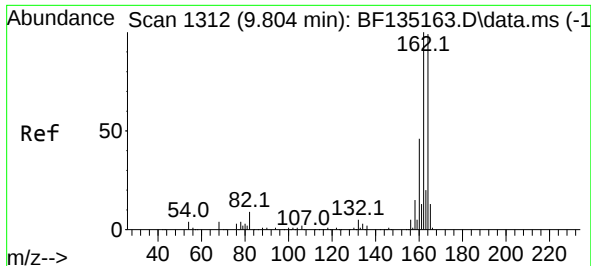
Tgt Ion:142 Resp: 4608651
Ion Ratio Lower Upper
142 100
141 87.6 71.0 106.6



#38
1-Methylnaphthalene
Concen: 444.488 ng
RT: 8.875 min Scan# 1154
Delta R.T. 0.035 min
Lab File: BF135522.D
Acq: 29 Sep 2023 18:17

Tgt Ion:142 Resp: 3618403
Ion Ratio Lower Upper
142 100
141 91.6 72.4 108.6

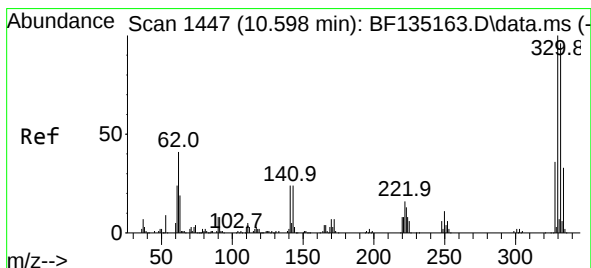
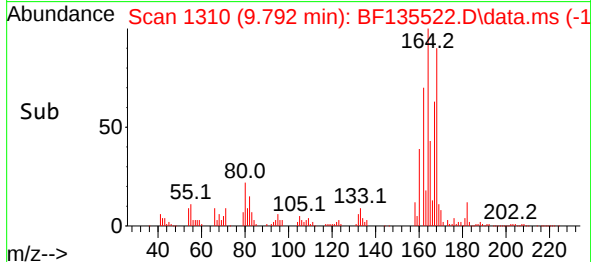
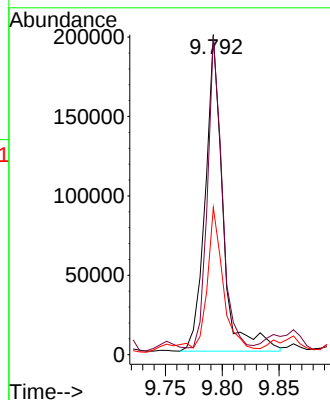
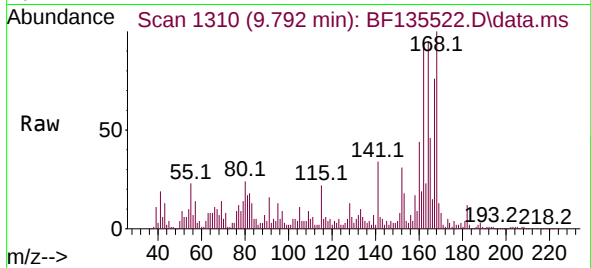




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.792 min Scan# 11
Delta R.T. 0.006 min
Lab File: BF135522.D
Acq: 29 Sep 2023 18:17

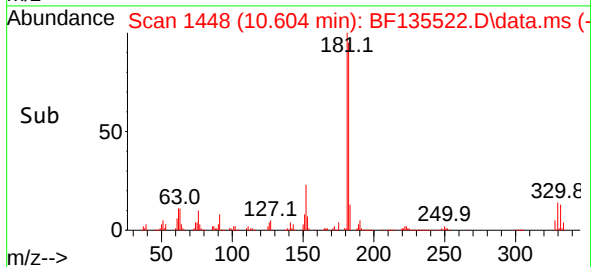
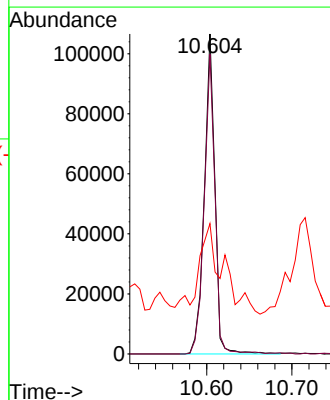
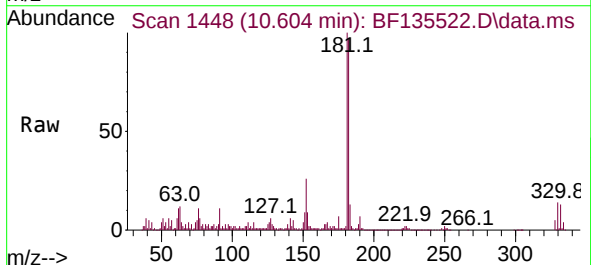
Instrument :
BNA_F
ClientSampleId :
I-4(0-5)

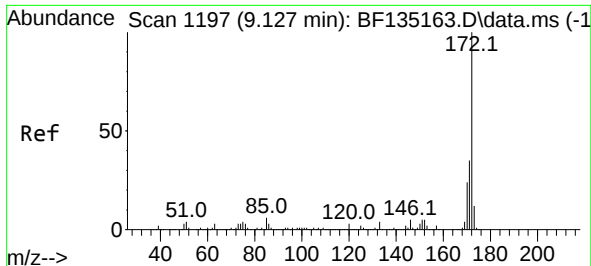
Tgt Ion:164 Resp: 213744
Ion Ratio Lower Upper
164 100
162 99.4 81.0 121.4
160 46.0 37.0 55.4



#42
2,4,6-Tribromophenol
Concen: 43.147 ng
RT: 10.604 min Scan# 1448
Delta R.T. 0.023 min
Lab File: BF135522.D
Acq: 29 Sep 2023 18:17

Tgt Ion:330 Resp: 91648
Ion Ratio Lower Upper
330 100
332 95.0 77.3 115.9
141 38.4 25.8 38.8

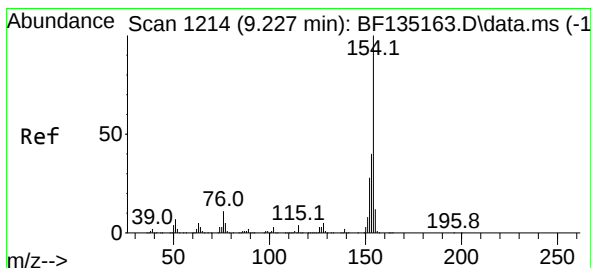
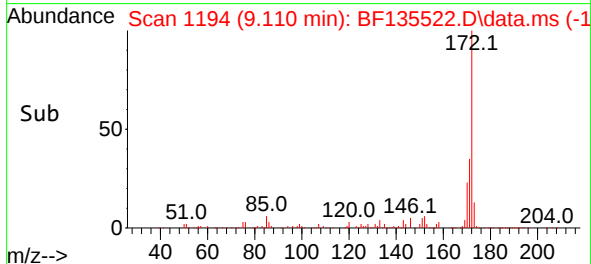
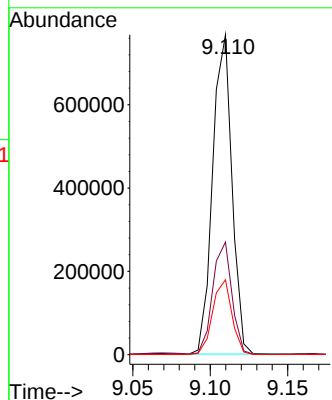
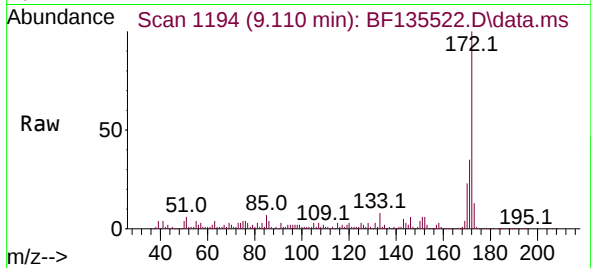




#45
2-Fluorobiphenyl
Concen: 46.849 ng
RT: 9.110 min Scan# 1197
Delta R.T. -0.000 min
Lab File: BF135522.D
Acq: 29 Sep 2023 18:17

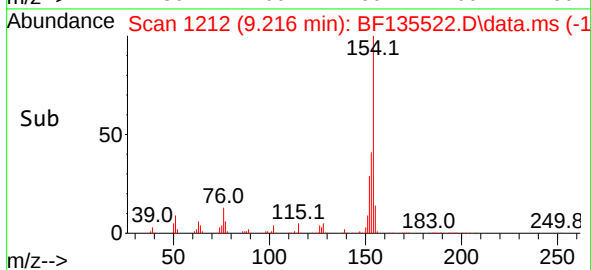
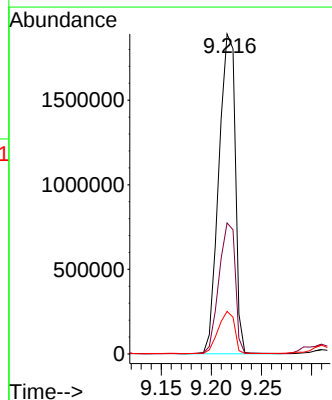
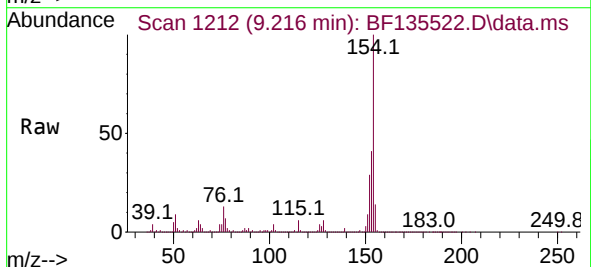
Instrument :
BNA_F
ClientSampleId :
I-4(0-5)

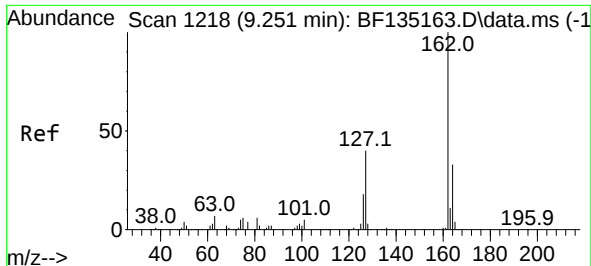
Tgt Ion:172 Resp: 663723
Ion Ratio Lower Upper
172 100
171 35.2 28.4 42.6
170 23.4 19.0 28.4



#46
1,1'-Biphenyl
Concen: 130.869 ng
RT: 9.216 min Scan# 1212
Delta R.T. 0.006 min
Lab File: BF135522.D
Acq: 29 Sep 2023 18:17

Tgt Ion:154 Resp: 2149645
Ion Ratio Lower Upper
154 100
153 40.9 19.6 59.6
76 13.3 0.0 31.0





#47

2-Chloronaphthalene

Concen: 28.679 ng

RT: 9.286 min Scan# 1

Delta R.T. 0.053 min

Lab File: BF135522.D

Acq: 29 Sep 2023 18:17

Instrument :

BNA_F

ClientSampleId :

I-4(0-5)

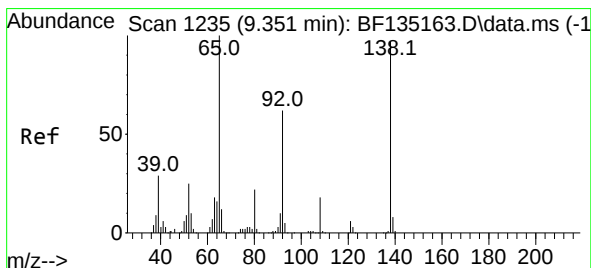
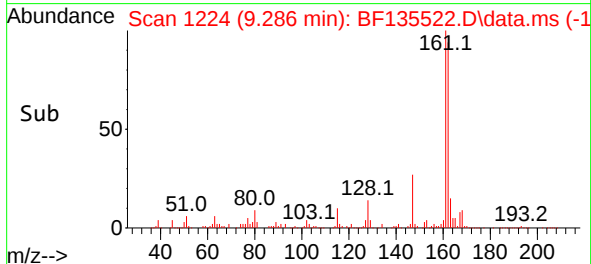
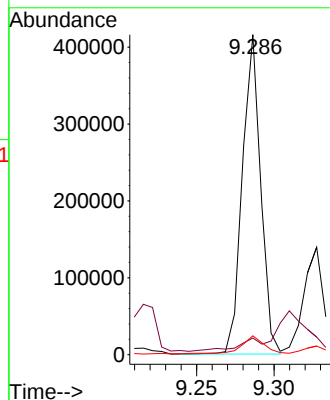
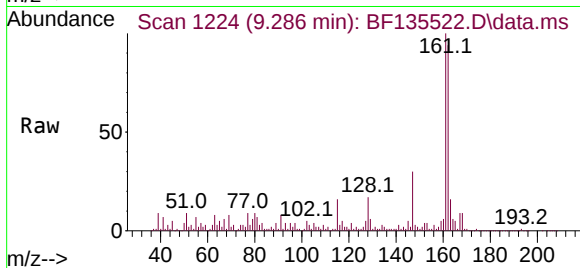
Tgt Ion:162 Resp: 341798

Ion Ratio Lower Upper

162 100

127 5.2 32.6 48.8#

164 5.9 26.2 39.2#



#48

2-Nitroaniline

Concen: 4.257 ng

RT: 9.316 min Scan# 1229

Delta R.T. -0.024 min

Lab File: BF135522.D

Acq: 29 Sep 2023 18:17

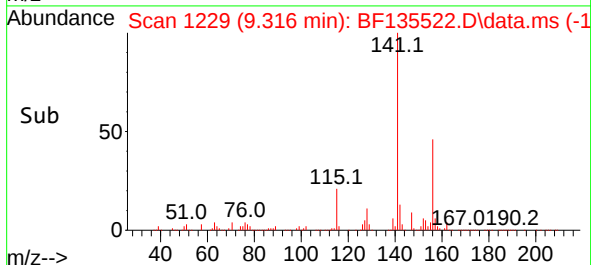
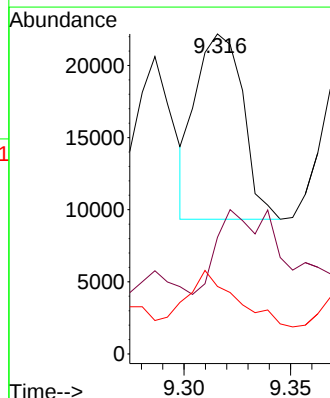
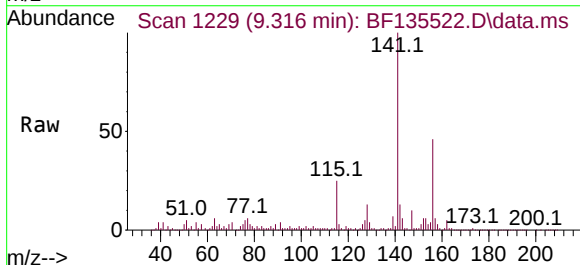
Tgt Ion: 65 Resp: 19709

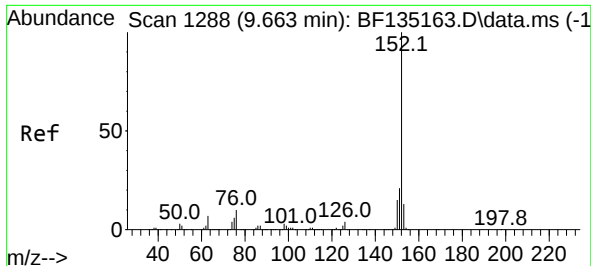
Ion Ratio Lower Upper

65 100

92 36.5 49.4 74.0#

138 21.1 77.4 116.0#





#49

Acenaphthylene

Concen: 130.883 ng

RT: 9.669 min Scan# 1

Delta R.T. 0.018 min

Lab File: BF135522.D

Acq: 29 Sep 2023 18:17

Instrument :

BNA_F

ClientSampleId :

I-4(0-5)

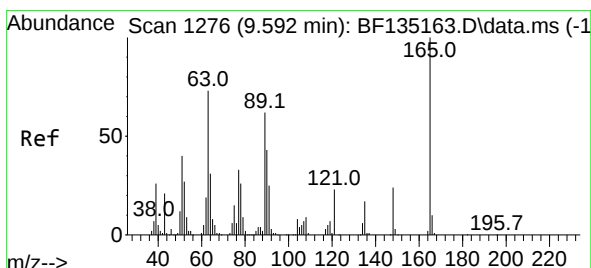
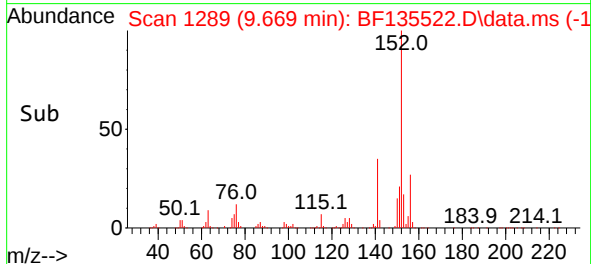
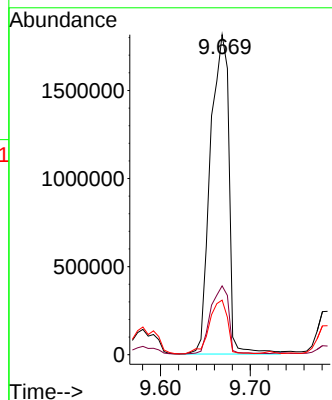
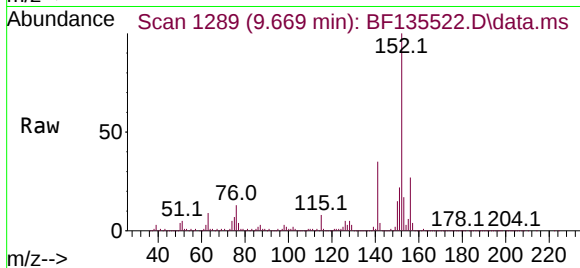
Tgt Ion:152 Resp: 2592370

Ion Ratio Lower Upper

152 100

151 21.5 16.4 24.6

153 17.1 10.4 15.6#



#51

2,6-Dinitrotoluene

Concen: 3.102 ng

RT: 9.639 min Scan# 1284

Delta R.T. 0.053 min

Lab File: BF135522.D

Acq: 29 Sep 2023 18:17

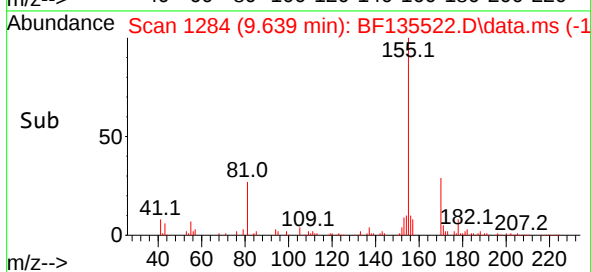
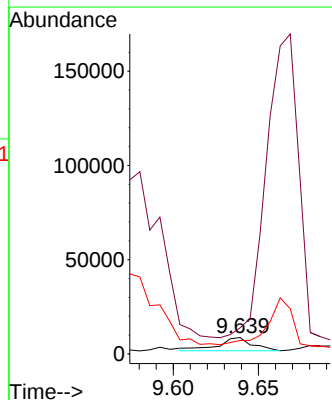
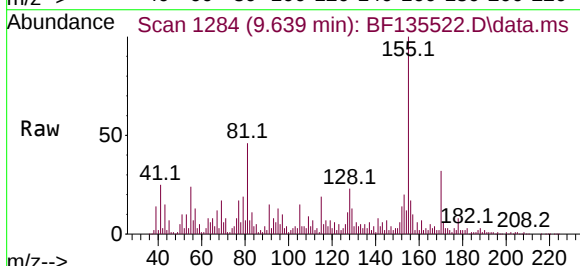
Tgt Ion:165 Resp: 9819

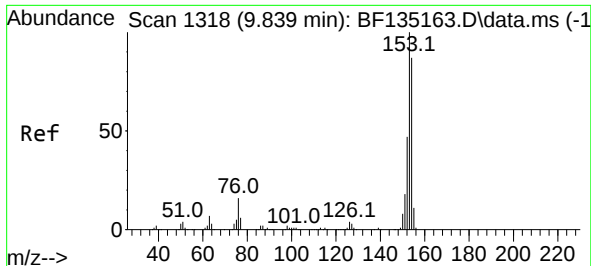
Ion Ratio Lower Upper

165 100

63 158.0 59.4 89.2#

89 81.5 49.8 74.8#

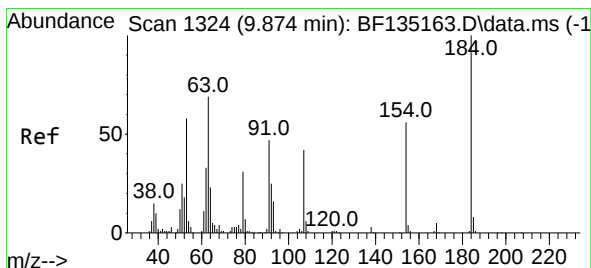
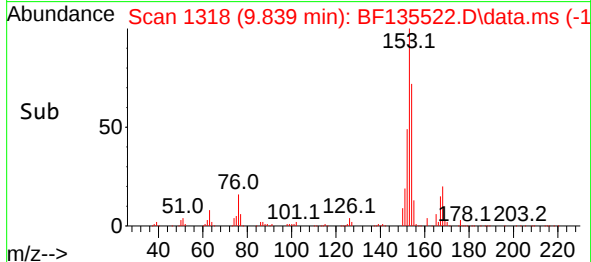
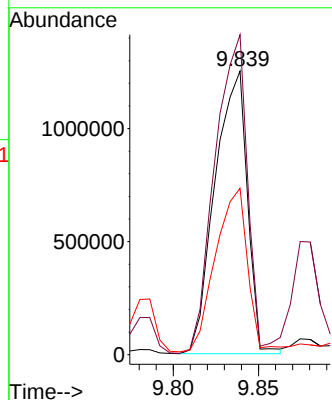
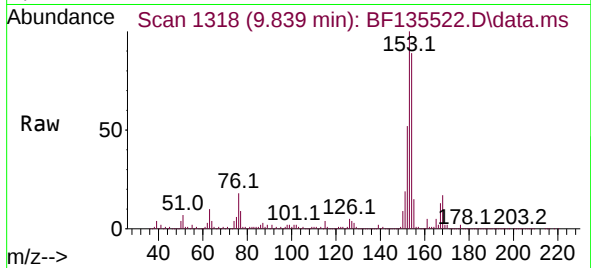




#52
Acenaphthene
Concen: 140.988 ng
RT: 9.839 min Scan# 1318
Delta R.T. 0.018 min
Lab File: BF135522.D
Acq: 29 Sep 2023 18:17

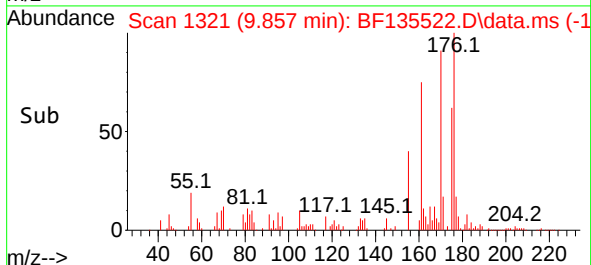
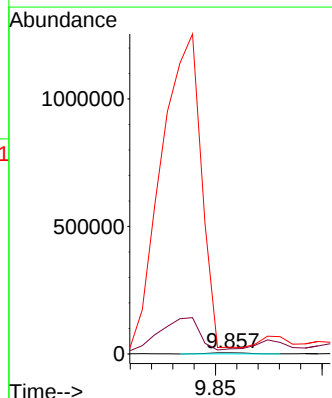
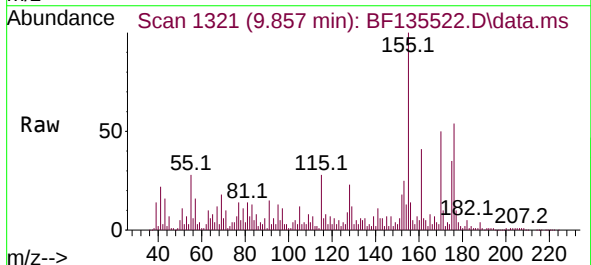
Instrument :
BNA_F
ClientSampleId :
I-4(0-5)

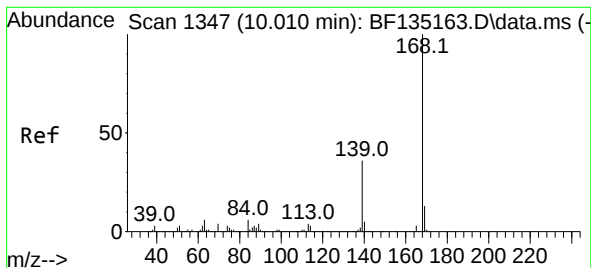
Tgt Ion:154 Resp: 1649661
Ion Ratio Lower Upper
154 100
153 112.8 92.1 138.1
152 58.6 43.1 64.7



#54
2,4-Dinitrophenol
Concen: 9.188 ng
RT: 9.857 min Scan# 1321
Delta R.T. -0.012 min
Lab File: BF135522.D
Acq: 29 Sep 2023 18:17

Tgt Ion:184 Resp: 5733
Ion Ratio Lower Upper
184 100
63 427.4 55.1 82.7#
154 555.9 48.4 72.6#





#55

Dibenzenofuran

Concen: 217.073 ng

RT: 10.022 min Scan# 1349

Delta R.T. 0.029 min

Lab File: BF135522.D

Acq: 29 Sep 2023 18:17

Instrument :

BNA_F

ClientSampleId :

I-4(0-5)

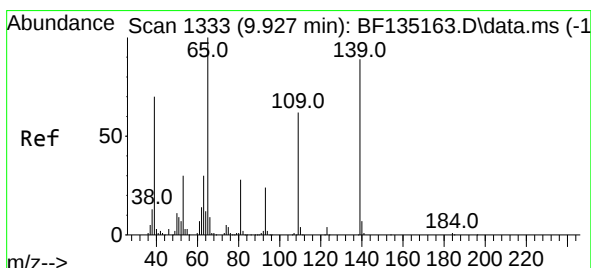
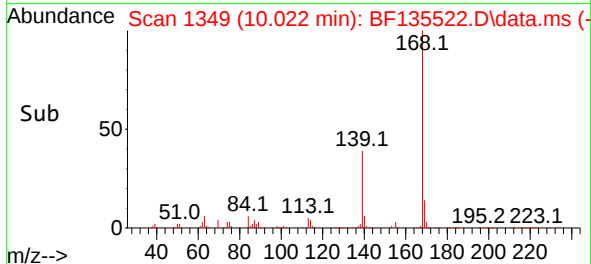
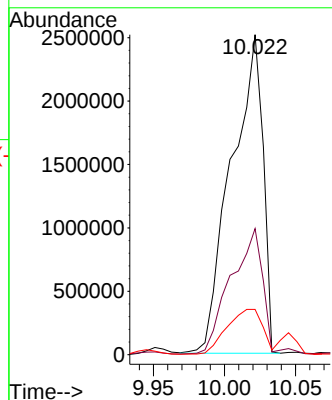
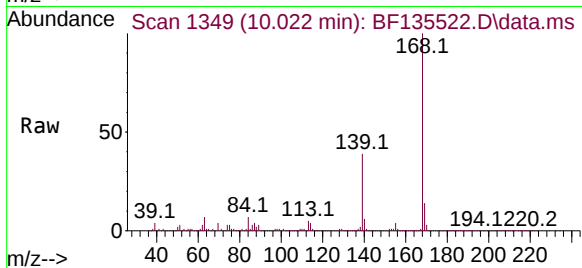
Tgt Ion:168 Resp: 3875872

Ion Ratio Lower Upper

168 100

139 39.4 29.0 43.6

169 14.2 10.4 15.6



#56

4-Nitrophenol

Concen: 20.655 ng

RT: 9.904 min Scan# 1329

Delta R.T. -0.030 min

Lab File: BF135522.D

Acq: 29 Sep 2023 18:17

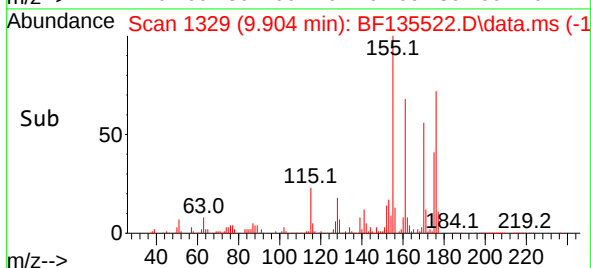
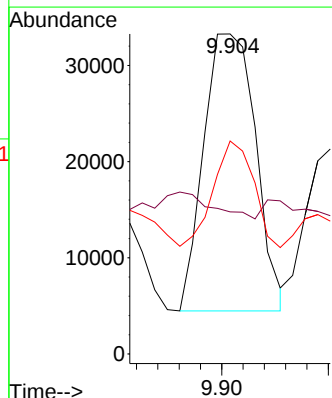
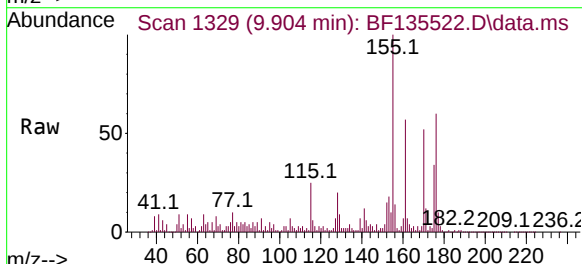
Tgt Ion:139 Resp: 48782

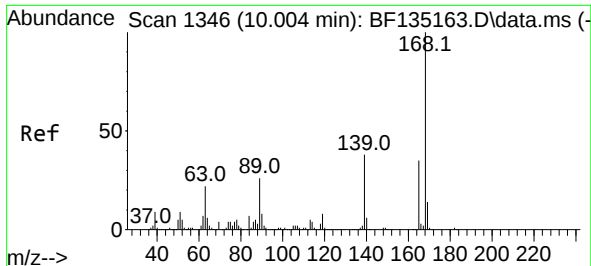
Ion Ratio Lower Upper

139 100

109 44.4 49.8 89.8#

65 66.5 92.7 132.7#





#57

2,4-Dinitrotoluene

Concen: 4.320 ng

RT: 10.010 min Scan# 1

Delta R.T. 0.018 min

Lab File: BF135522.D

Acq: 29 Sep 2023 18:17

Instrument :

BNA_F

ClientSampleId :

I-4(0-5)

Tgt Ion:165 Resp: 17122

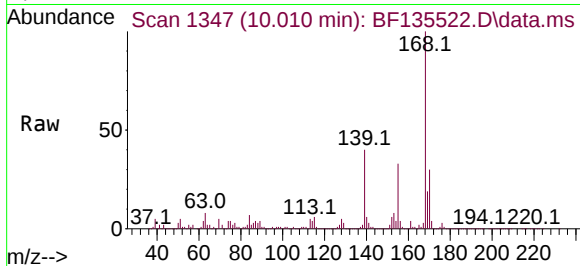
Ion Ratio Lower Upper

165 100

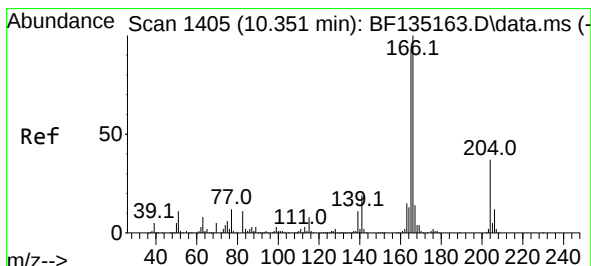
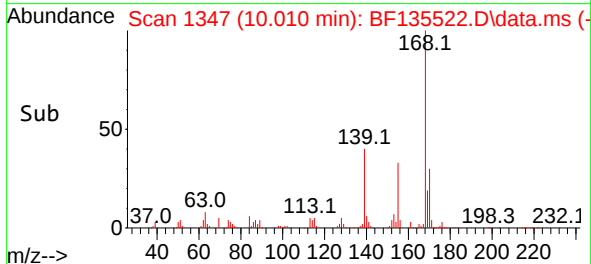
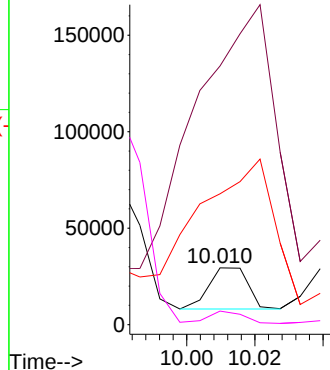
63 455.6 50.1 75.1#

89 230.5 59.3 88.9#

182 24.1 2.3 3.5#



Abundance



#58

Fluorene

Concen: 374.770 ng

RT: 10.380 min Scan# 1410

Delta R.T. 0.041 min

Lab File: BF135522.D

Acq: 29 Sep 2023 18:17

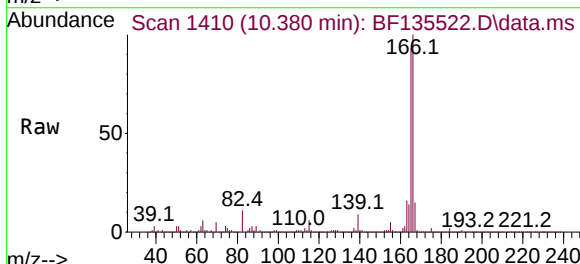
Tgt Ion:166 Resp: 5144245

Ion Ratio Lower Upper

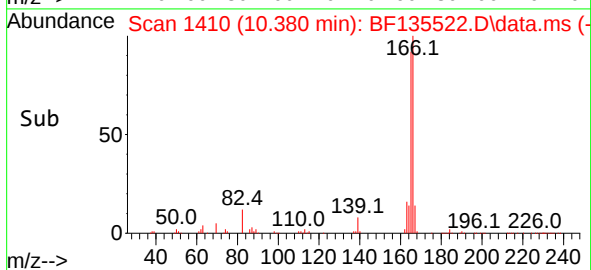
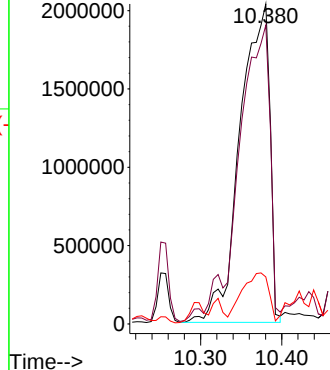
166 100

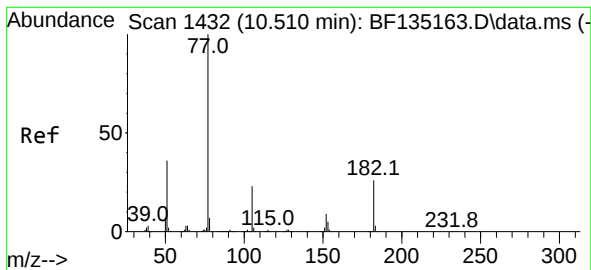
165 93.4 74.3 111.5

167 14.7 10.9 16.3



Abundance





#63

Azobenzene

Concen: 3.810 ng

RT: 10.516 min Scan# 1432

Delta R.T. 0.023 min

Lab File: BF135522.D

Acq: 29 Sep 2023 18:17

Instrument :

BNA_F

ClientSampleId :

I-4(0-5)

Tgt Ion: 77 Resp: 54075

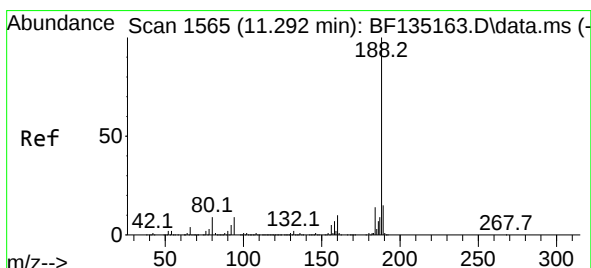
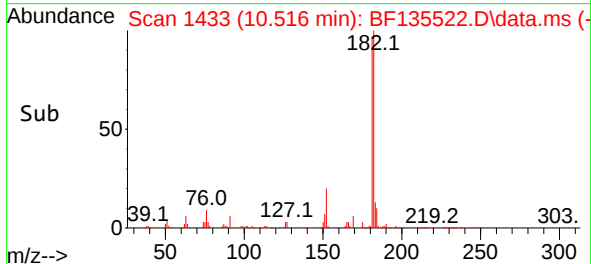
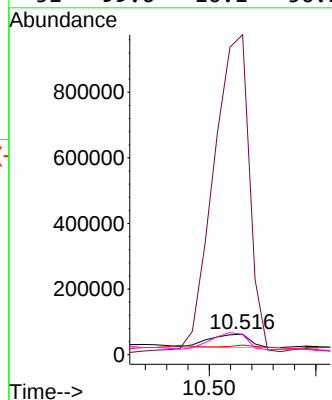
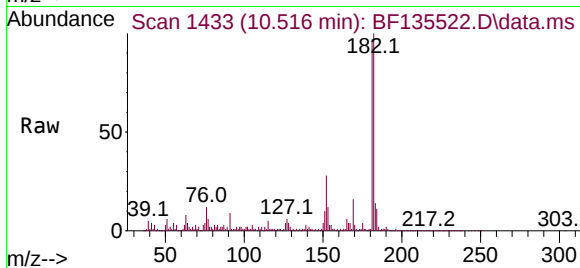
Ion Ratio Lower Upper

77 100

182 1566.9 6.4 46.4#

105 47.2 3.1 43.1#

51 99.6 16.1 56.1#



#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.298 min Scan# 1566

Delta R.T. 0.023 min

Lab File: BF135522.D

Acq: 29 Sep 2023 18:17

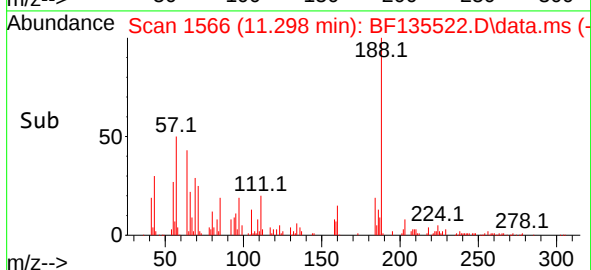
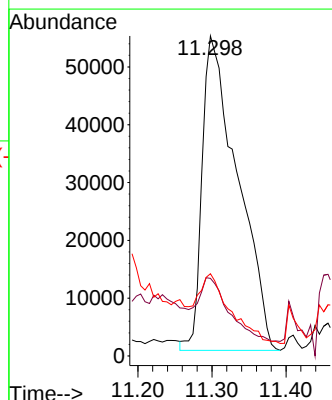
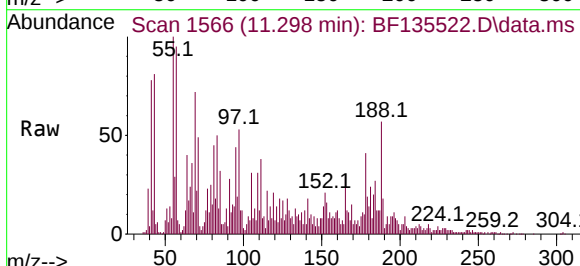
Tgt Ion: 188 Resp: 181112

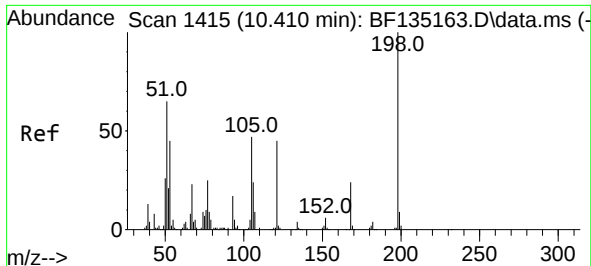
Ion Ratio Lower Upper

188 100

94 24.2 7.0 10.6#

80 25.7 7.5 11.3#

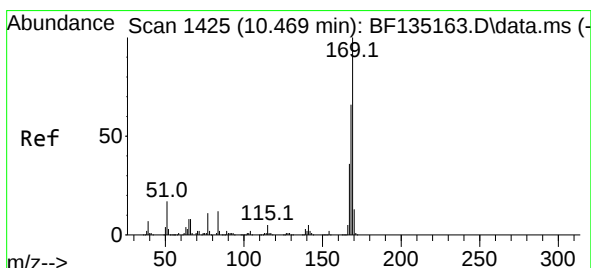
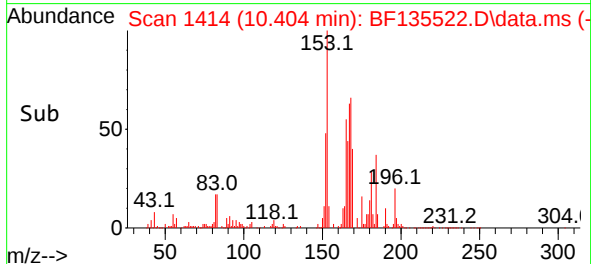
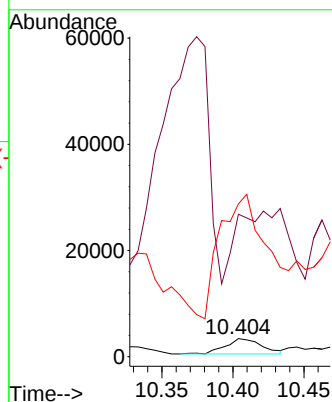
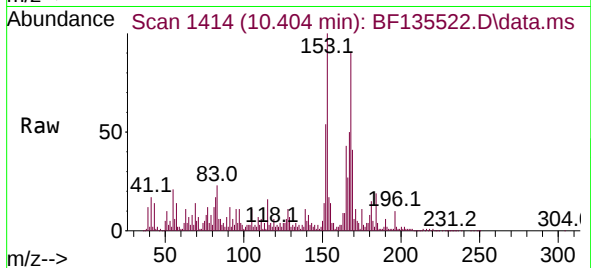




#65
4,6-Dinitro-2-methylphenol
Concen: 5.302 ng
RT: 10.404 min Scan# 1415
Delta R.T. -0.000 min
Lab File: BF135522.D
Acq: 29 Sep 2023 18:17

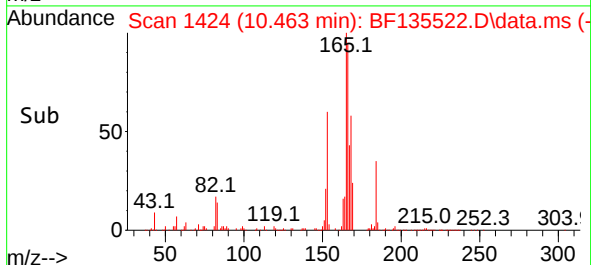
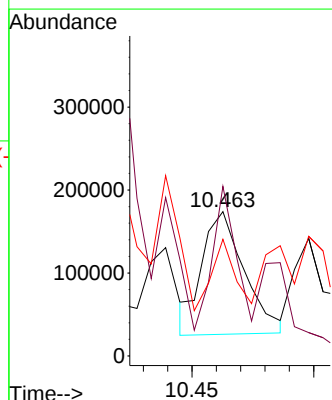
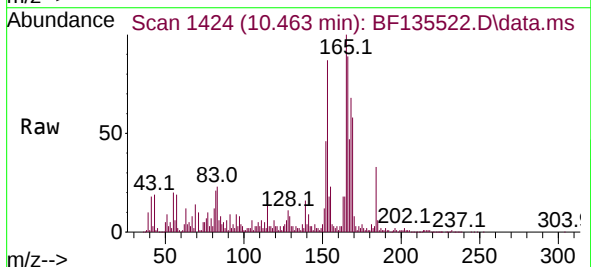
Instrument :
BNA_F
ClientSampleId :
I-4(0-5)

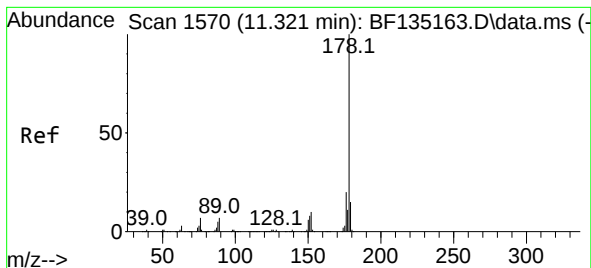
Tgt Ion:198 Resp: 5100
Ion Ratio Lower Upper
198 100
51 790.3 47.7 87.7#
105 848.3 27.4 67.4#



#66
n-Nitrosodiphenylamine
Concen: 32.605 ng
RT: 10.463 min Scan# 1424
Delta R.T. 0.012 min
Lab File: BF135522.D
Acq: 29 Sep 2023 18:17

Tgt Ion:169 Resp: 178775
Ion Ratio Lower Upper
169 100
168 117.4 52.8 79.2#
167 80.8 29.0 43.6#





#71

Phenanthrene

Concen: 1797.350 ng

RT: 11.398 min Scan# 1583

Delta R.T. 0.094 min

Lab File: BF135522.D

Acq: 29 Sep 2023 18:17

Instrument :

BNA_F

ClientSampleId :

I-4(0-5)

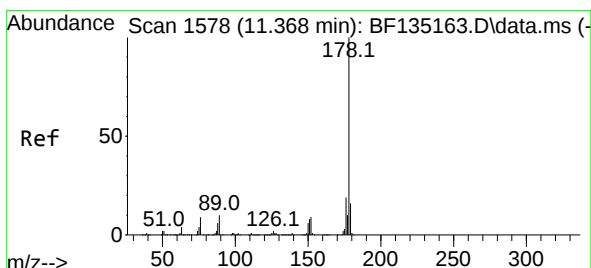
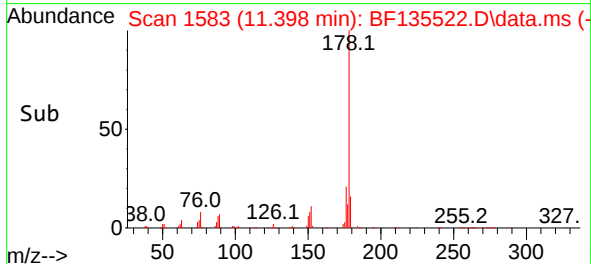
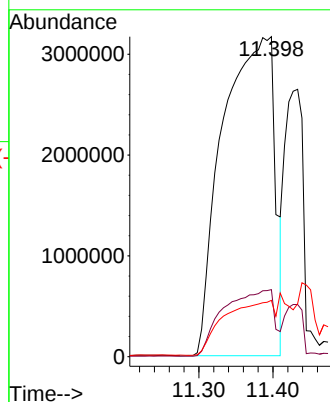
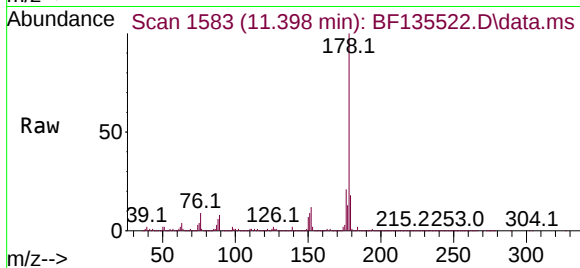
Tgt Ion:178 Resp:15395777

Ion Ratio Lower Upper

178 100

176 20.9 15.6 23.4

179 17.6 12.0 18.0



#72

Anthracene

Concen: 1748.579 ng

RT: 11.398 min Scan# 1583

Delta R.T. 0.041 min

Lab File: BF135522.D

Acq: 29 Sep 2023 18:17

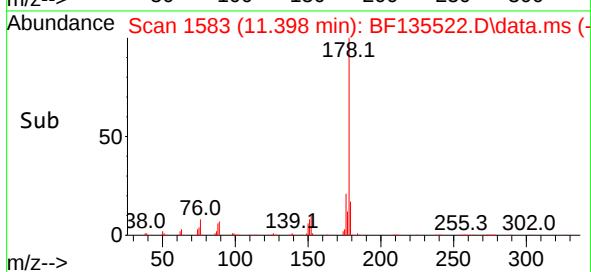
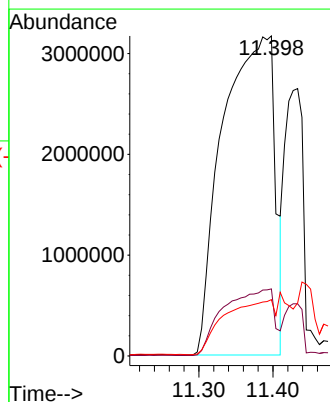
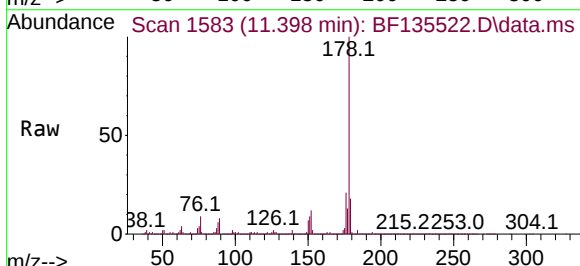
Tgt Ion:178 Resp:15395777

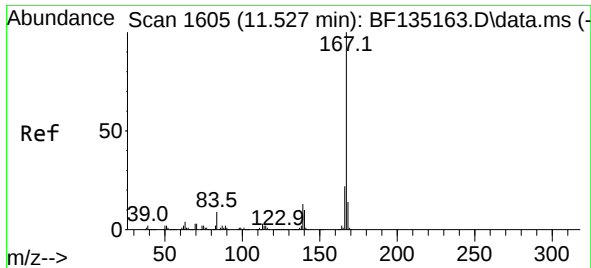
Ion Ratio Lower Upper

178 100

176 20.9 15.4 23.2

179 17.6 12.6 19.0

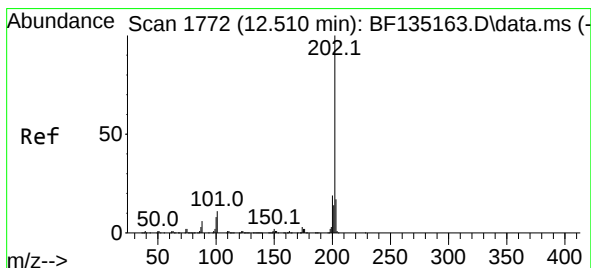
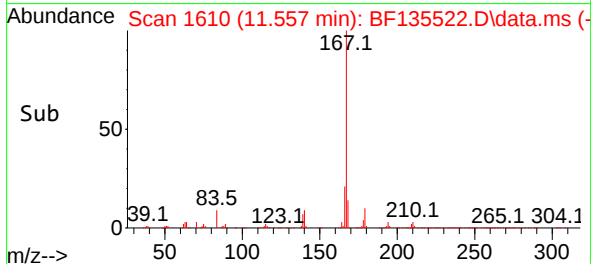
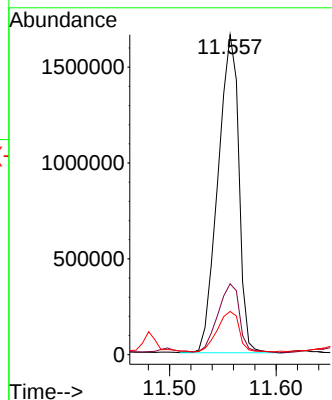
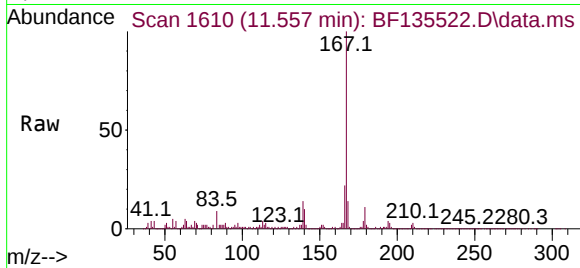




#73
 Carbazole
 Concen: 280.959 ng
 RT: 11.557 min Scan# 1
 Delta R.T. 0.041 min
 Lab File: BF135522.D
 Acq: 29 Sep 2023 18:17

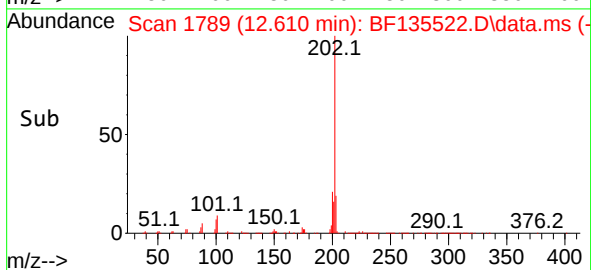
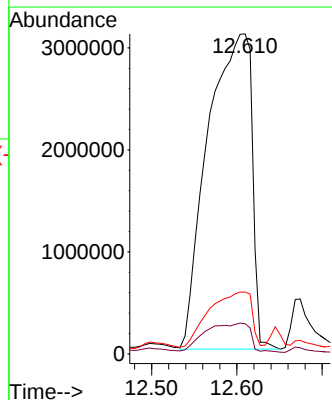
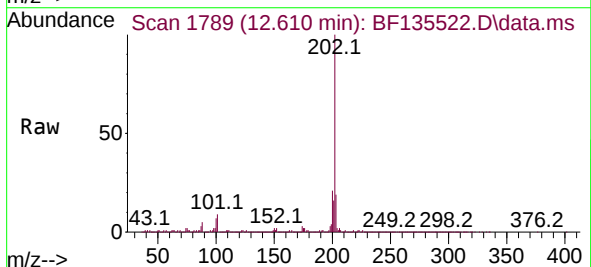
Instrument :
 BNA_F
 ClientSampleId :
 I-4(0-5)

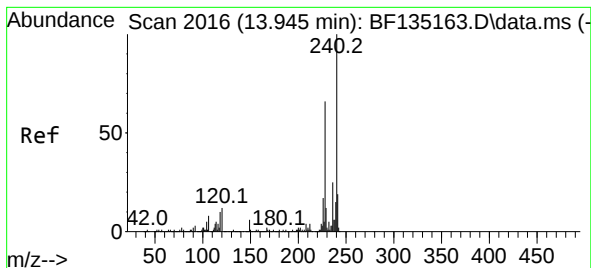
Tgt Ion:167 Resp: 2251931
 Ion Ratio Lower Upper
 167 100
 166 22.1 17.4 26.0
 139 13.5 10.6 15.8



#75
 Fluoranthene
 Concen: 1244.028 ng
 RT: 12.610 min Scan# 1789
 Delta R.T. 0.112 min
 Lab File: BF135522.D
 Acq: 29 Sep 2023 18:17

Tgt Ion:202 Resp:11103575
 Ion Ratio Lower Upper
 202 100
 101 9.5 0.0 31.3
 203 19.4 0.0 37.4





#76

Chrysene-d12

Concen: 20.000 ng

RT: 14.009 min Scan# 20

Delta R.T. 0.076 min

Lab File: BF135522.D

Acq: 29 Sep 2023 18:17

Instrument :

BNA_F

ClientSampleId :

I-4(0-5)

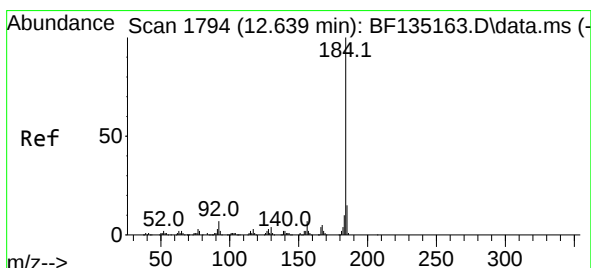
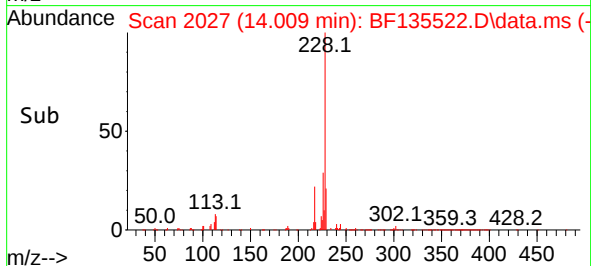
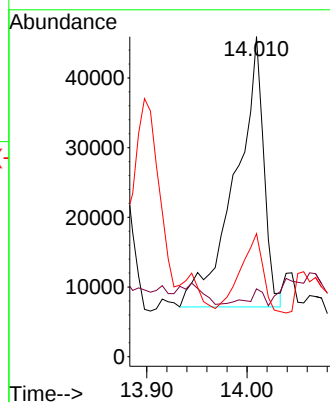
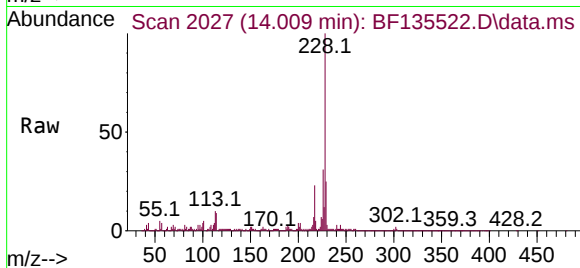
Tgt Ion:240 Resp: 76220

Ion Ratio Lower Upper

240 100

120 21.2 9.4 14.2#

236 38.5 19.8 29.8#



#77

Benzidine

Concen: 4.834 ng

RT: 12.663 min Scan# 1798

Delta R.T. 0.041 min

Lab File: BF135522.D

Acq: 29 Sep 2023 18:17

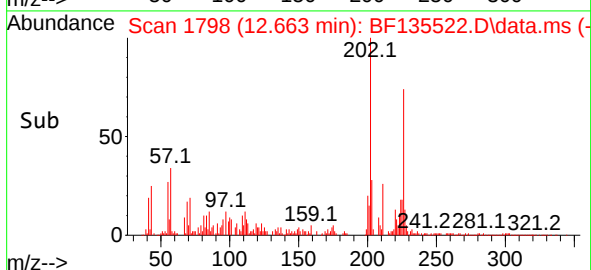
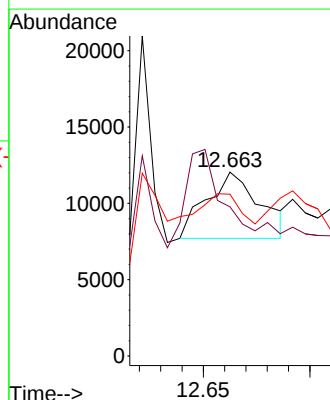
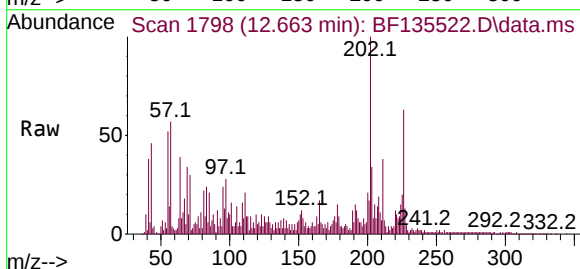
Tgt Ion:184 Resp: 7549

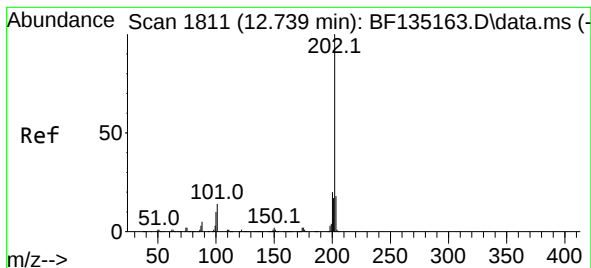
Ion Ratio Lower Upper

184 100

185 81.2 11.7 17.5#

183 88.0 8.2 12.4#





#78

Pyrene

Concen: 1320.838 ng

RT: 12.845 min Scan# 1829

Delta R.T. 0.118 min

Lab File: BF135522.D

Acq: 29 Sep 2023 18:17

Instrument :

BNA_F

ClientSampleId :

I-4(0-5)

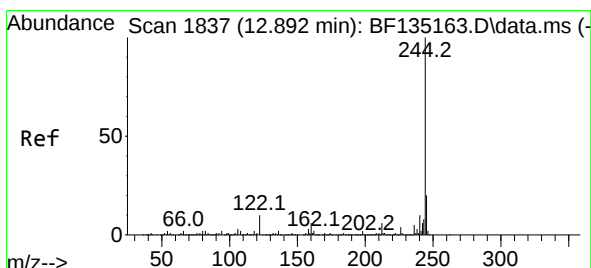
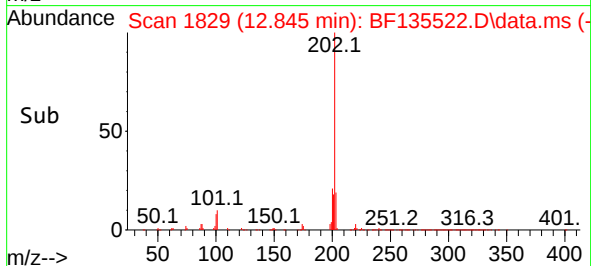
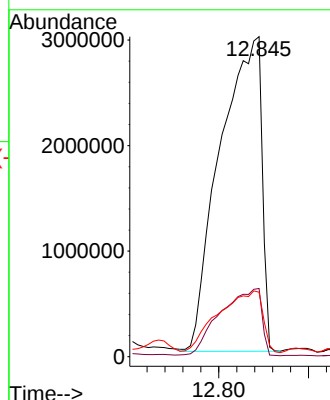
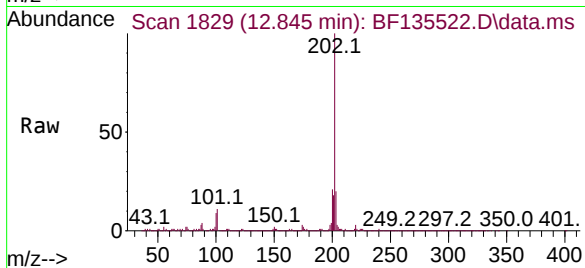
Tgt Ion:202 Resp: 9584958

Ion Ratio Lower Upper

202 100

200 21.3 16.2 24.2

203 20.1 14.2 21.4



#79

Terphenyl-d14

Concen: 73.654 ng

RT: 12.915 min Scan# 1841

Delta R.T. 0.041 min

Lab File: BF135522.D

Acq: 29 Sep 2023 18:17

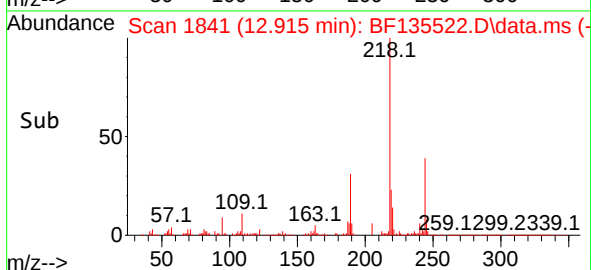
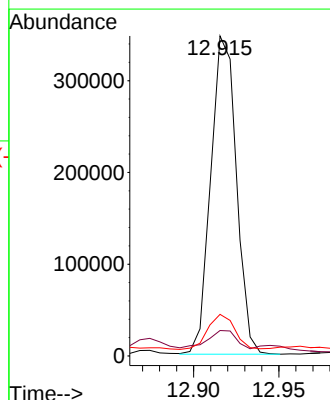
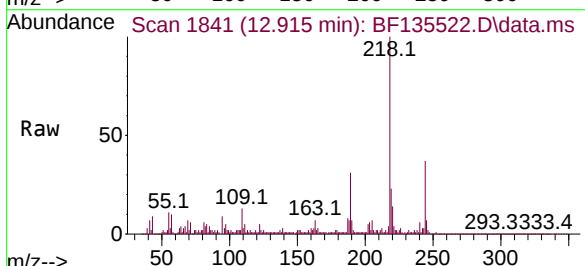
Tgt Ion:244 Resp: 362144

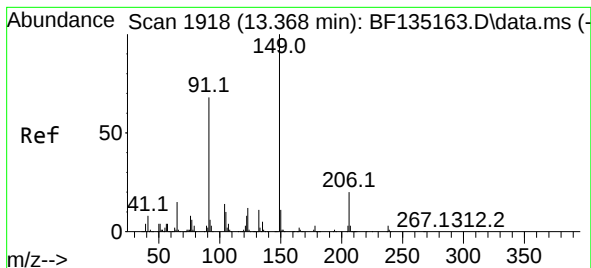
Ion Ratio Lower Upper

244 100

212 8.0 5.1 7.7#

122 13.0 7.9 11.9#





#80

Butylbenzylphthalate

Concen: 3.739 ng

RT: 13.457 min Scan# 1918

Delta R.T. 0.106 min

Lab File: BF135522.D

Acq: 29 Sep 2023 18:17

Instrument :

BNA_F

ClientSampleId :

I-4(0-5)

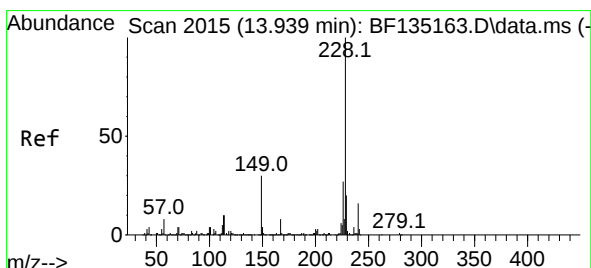
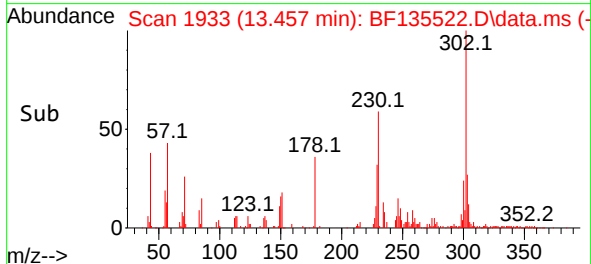
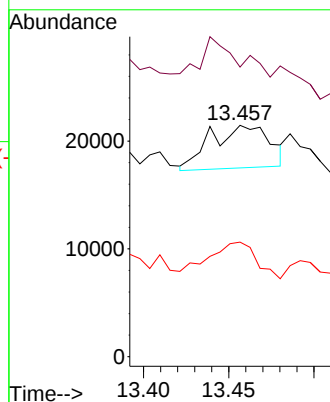
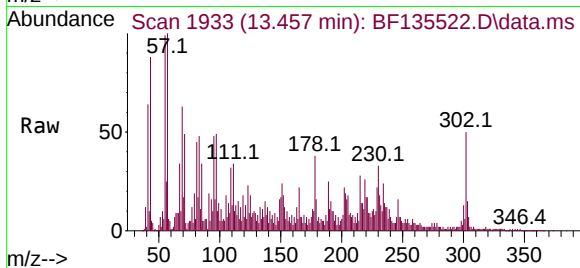
Tgt Ion:149 Resp: 9553

Ion Ratio Lower Upper

149 100

91 125.1 54.7 82.1#

206 49.5 16.3 24.5#



#81

Benzo(a)anthracene

Concen: 1185.931 ng

RT: 13.998 min Scan# 2025

Delta R.T. 0.076 min

Lab File: BF135522.D

Acq: 29 Sep 2023 18:17

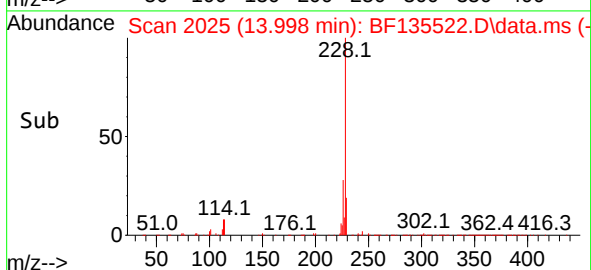
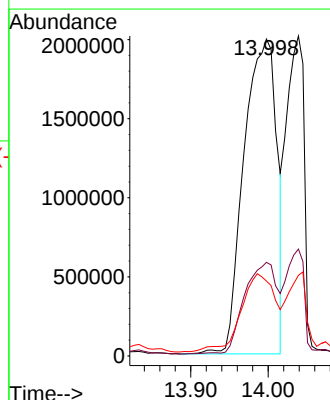
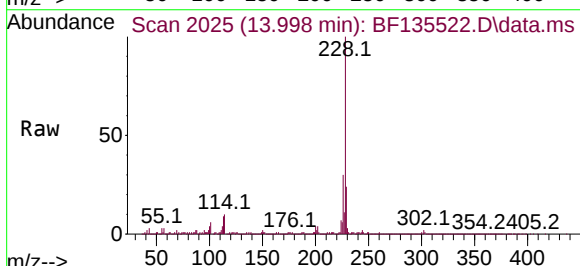
Tgt Ion:228 Resp: 5836829

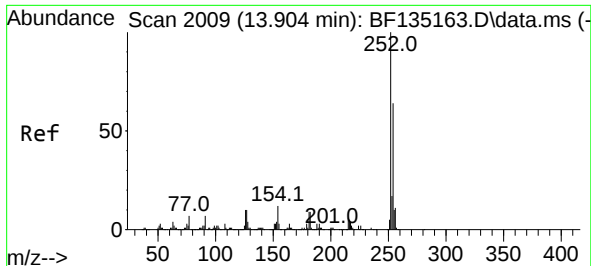
Ion Ratio Lower Upper

228 100

226 29.5 21.7 32.5

229 23.6 15.8 23.8





#82

3,3'-Dichlorobenzidine

Concen: 4.566 ng

RT: 13.939 min Scan# 2015

Delta R.T. 0.053 min

Lab File: BF135522.D

Acq: 29 Sep 2023 18:17

Instrument :

BNA_F

ClientSampleId :

I-4(0-5)

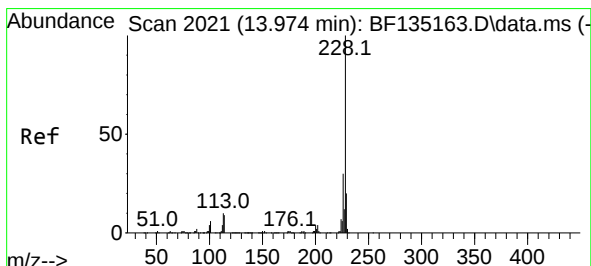
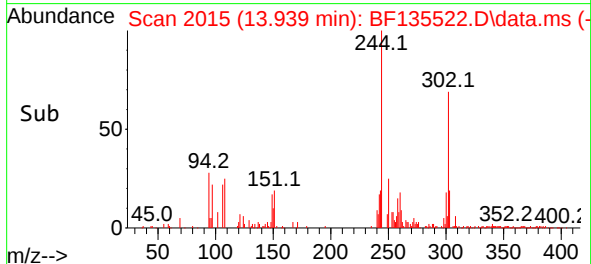
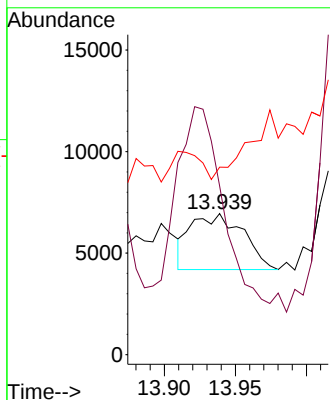
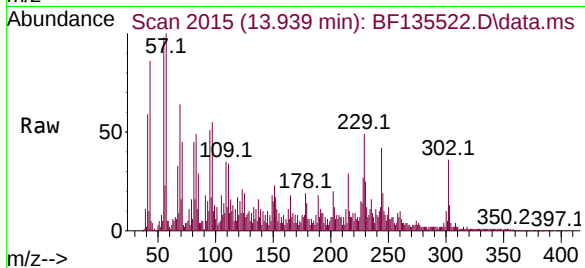
Tgt Ion:252 Resp: 7020

Ion Ratio Lower Upper

252 100

254 119.6 51.0 76.4#

126 133.0 7.8 11.8#



#83

Chrysene

Concen: 1192.813 ng

RT: 13.998 min Scan# 2025

Delta R.T. 0.035 min

Lab File: BF135522.D

Acq: 29 Sep 2023 18:17

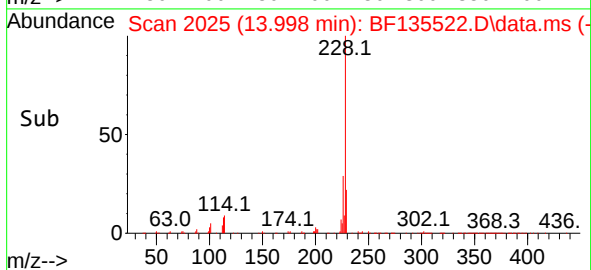
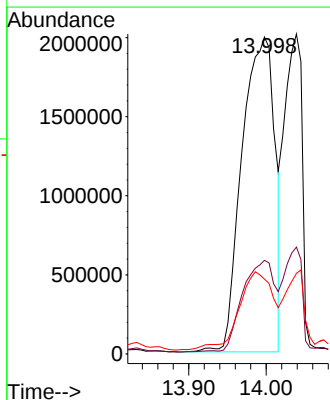
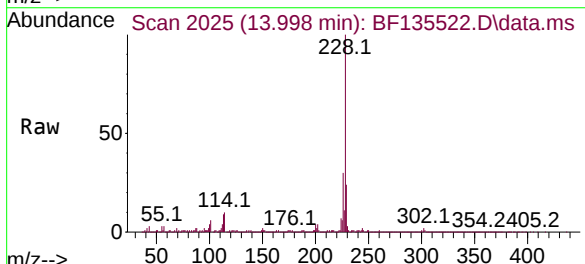
Tgt Ion:228 Resp: 5836829

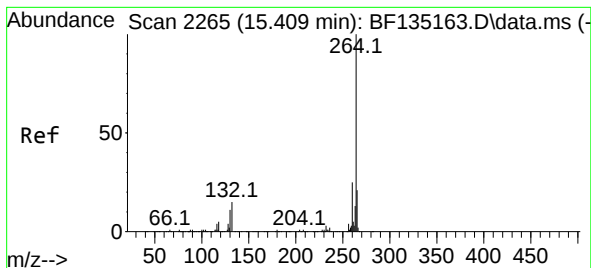
Ion Ratio Lower Upper

228 100

226 29.5 24.3 36.5

229 23.6 16.0 24.0





#86

Perylene-d12

Concen: 20.000 ng

RT: 15.480 min Scan# 21

Delta R.T. 0.088 min

Lab File: BF135522.D

Acq: 29 Sep 2023 18:17

Instrument :

BNA_F

ClientSampleId :

I-4(0-5)

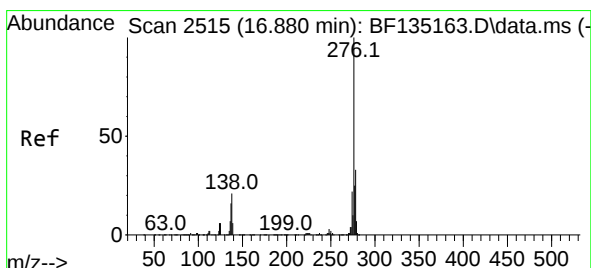
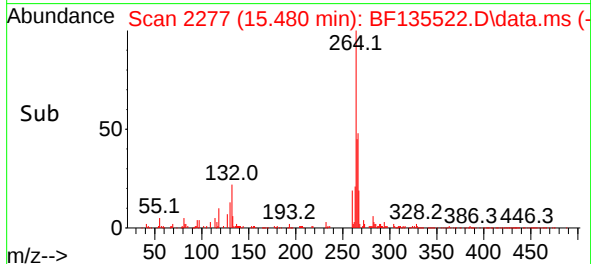
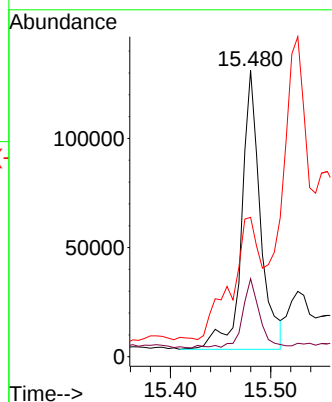
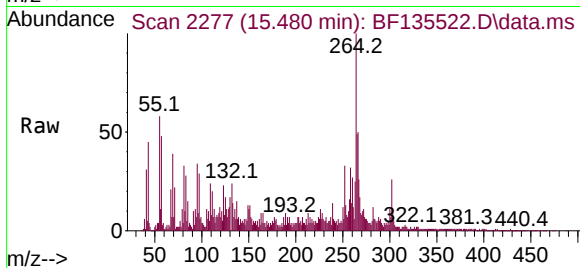
Tgt Ion:264 Resp: 167000

Ion Ratio Lower Upper

264 100

260 27.2 19.8 29.6

265 48.7 17.0 25.4#



#87

Indeno(1,2,3-cd)pyrene

Concen: 205.086 ng

RT: 17.015 min Scan# 2538

Delta R.T. 0.135 min

Lab File: BF135522.D

Acq: 29 Sep 2023 18:17

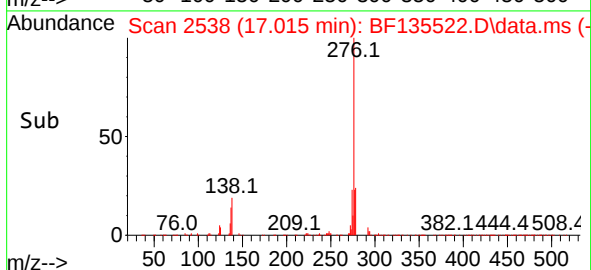
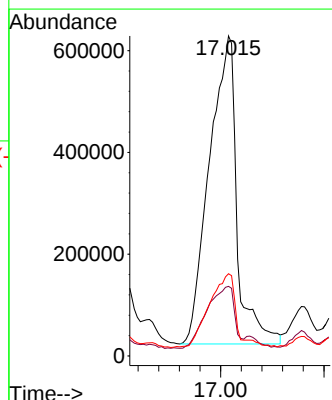
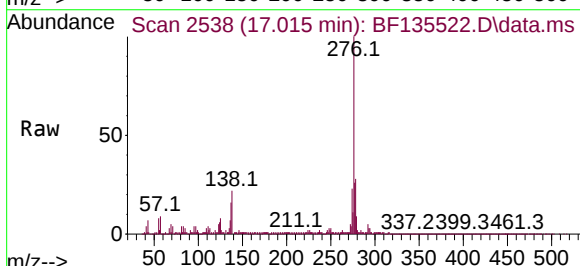
Tgt Ion:276 Resp: 2245614

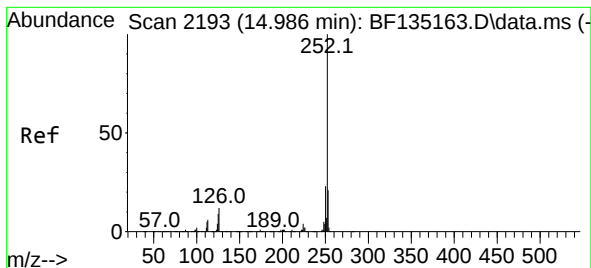
Ion Ratio Lower Upper

276 100

138 20.3 19.2 28.8

277 23.5 19.7 29.5





#88

Benzo(b)fluoranthene

Concen: 660.834 ng

RT: 15.068 min Scan# 21

Delta R.T. 0.100 min

Lab File: BF135522.D

Acq: 29 Sep 2023 18:17

Instrument :

BNA_F

ClientSampleId :

I-4(0-5)

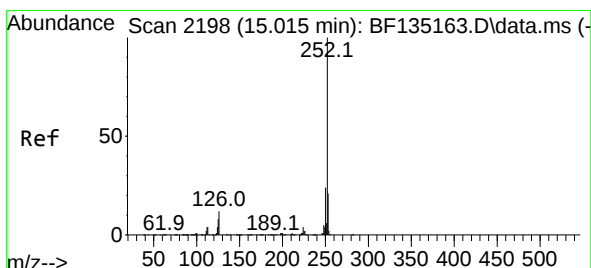
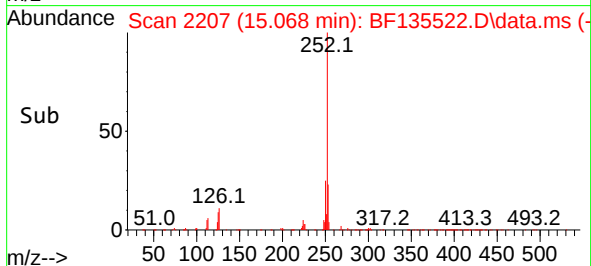
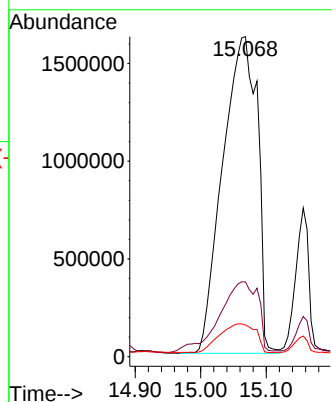
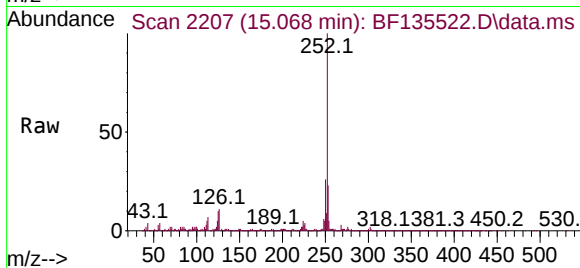
Tgt Ion:252 Resp: 5974144

Ion Ratio Lower Upper

252 100

253 23.4 17.2 25.8

125 9.9 7.1 10.7



#89

Benzo(k)fluoranthene

Concen: 668.981 ng

RT: 15.068 min Scan# 2207

Delta R.T. 0.070 min

Lab File: BF135522.D

Acq: 29 Sep 2023 18:17

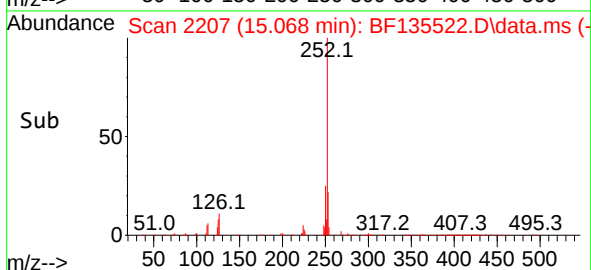
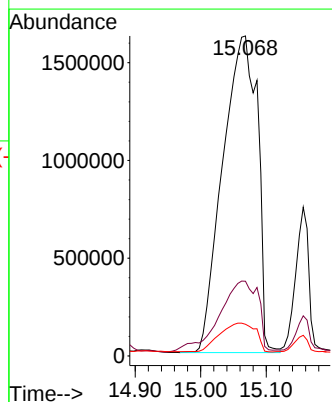
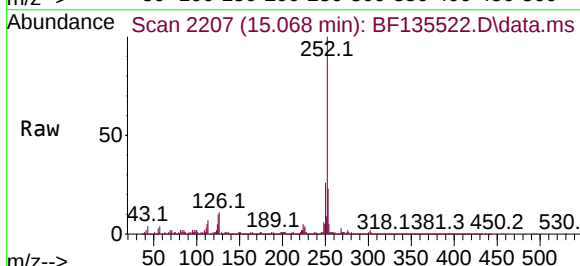
Tgt Ion:252 Resp: 5974144

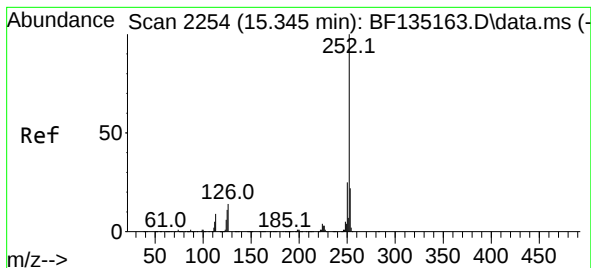
Ion Ratio Lower Upper

252 100

253 23.4 17.4 26.0

125 9.9 7.2 10.8





#90

Benzo(a)pyrene

Concen: 431.543 ng

RT: 15.439 min Scan# 21

Delta R.T. 0.106 min

Lab File: BF135522.D

Acq: 29 Sep 2023 18:17

Instrument :

BNA_F

ClientSampleId :

I-4(0-5)

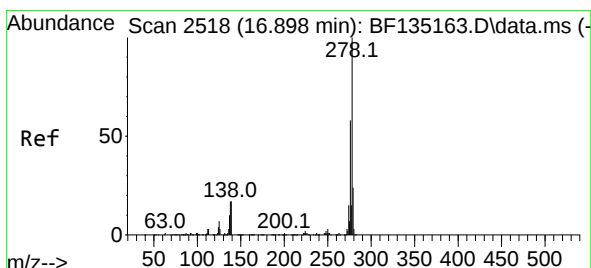
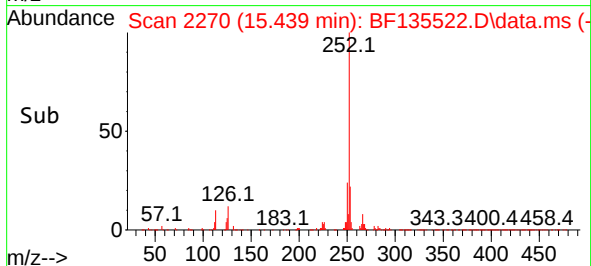
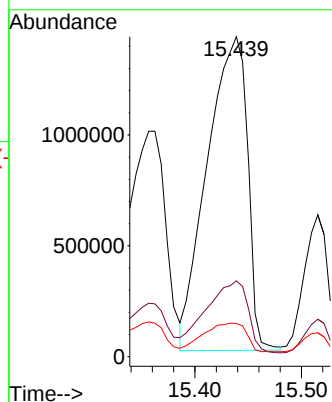
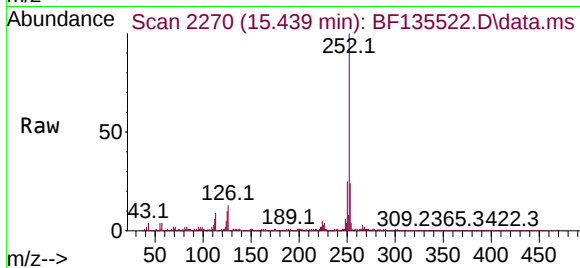
Tgt Ion:252 Resp: 3720396

Ion Ratio Lower Upper

252 100

253 23.7 17.5 26.3

125 10.4 9.2 13.8



#91

Dibenzo(a,h)anthracene

Concen: 65.830 ng

RT: 16.998 min Scan# 2535

Delta R.T. 0.112 min

Lab File: BF135522.D

Acq: 29 Sep 2023 18:17

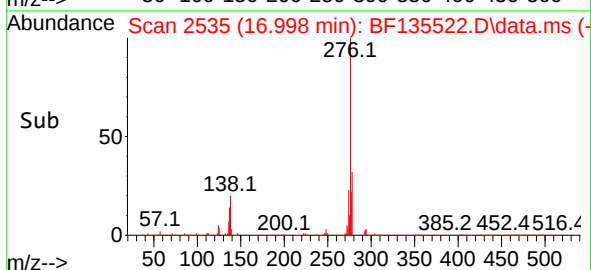
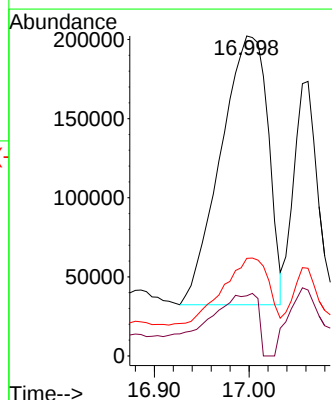
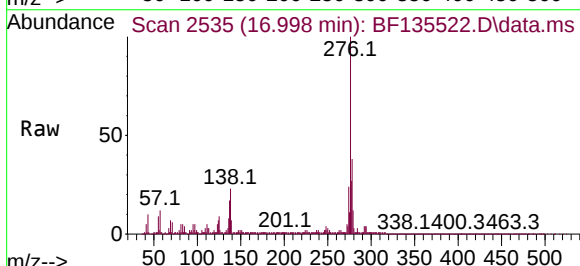
Tgt Ion:278 Resp: 589781

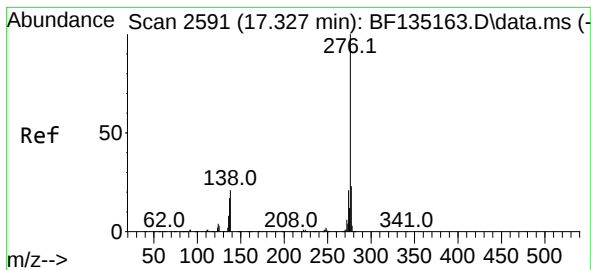
Ion Ratio Lower Upper

278 100

139 18.8 13.4 20.0

279 30.5 19.0 28.6#





#92

Benzo(g,h,i)perylene

Concen: 212.148 ng

RT: 17.480 min Scan# 20

Delta R.T. 0.159 min

Lab File: BF135522.D

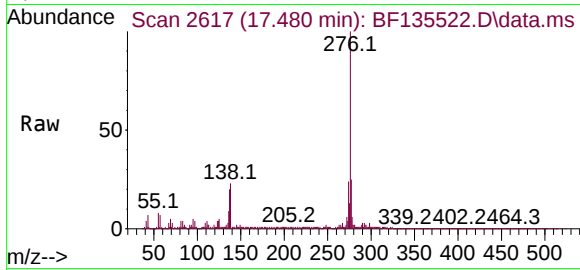
Acq: 29 Sep 2023 18:17

Instrument :

BNA_F

ClientSampleId :

I-4(0-5)



Tgt Ion:276 Resp: 1985001

Ion Ratio Lower Upper

276 100

277 25.0 18.8 28.2

138 23.1 16.9 25.3

