

Data Path : Z:\HPCHEM1\BNA F\DATA\BF052617\
 Data File : BF095457.D
 Acq On : 26 May 2017 13:09
 Operator : SJ/MA
 Sample : I3240-06
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 26 16:41:04 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF050217.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu May 18 17:07:53 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.74	152	104011	20.00	ng	-0.02
21) Naphthalene-d8	9.77	136	428294	20.00	ng	-0.02
38) Acenaphthene-d10	12.60	164	204145	20.00	ng	-0.02
63) Phenanthrene-d10	14.99	188	355786	20.00	ng	-0.03
75) Chrysene-d12	18.67	240	240211	20.00	ng	-0.02
86) Perylene-d12	20.35	264	191260	20.00	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.71	112	748876	120.04	ng	-0.02
7) Phenol-d6	7.29	99	910681	121.66	ng	-0.02
23) Nitrobenzene-d5	8.64	82	517242	76.15	ng	-0.03
41) 2,4,6-Tribromophenol	13.89	330	200832	120.12	ng	-0.02
44) 2-Fluorobiphenyl	11.53	172	1046205	73.76	ng	-0.03
78) Terphenyl-d14	17.32	244	788474	72.30	ng	-0.03
Target Compounds						Qvalue
10) Phenol	7.31	94	18769	2.38	ng	# 33
19) n-Nitroso-di-n-propylamine	8.64	70	60581	11.97	ng	# 74
31) Naphthalene	9.80	128	50244	2.33	ng	99
32) Benzoic acid	9.70	122	118	5.11	ng	# 1
49) Dimethylphthalate	12.24	163	139883	8.35	ng	98
51) Acenaphthene	12.65	154	92133	7.10	ng	99
54) Dibenzofuran	12.95	168	82521	4.59	ng	95
55) 4-Nitrophenol	12.95	139	28980	13.15	ng	# 27
57) Fluorene	13.49	166	98221	6.29	ng	98
70) Phenanthrene	15.04	178	1223957	59.87	ng	98
71) Anthracene	15.04	178	1223957	58.61	ng	99
72) Carbazole	15.41	167	113181	5.96	ng	97
74) Fluoranthene	16.78	202	1308428	62.40	ng	98
77) Pyrene	17.09	202	1149818	64.00	ng	98
80) Benzo(a)anthracene	18.66	228	438451	31.36	ng	96
82) Chrysene	18.71	228	393191	29.09	ng	99
87) Benzo(b)fluoranthene	19.94	252	499979	42.31	ng	# 97
88) Benzo(k)fluoranthene	19.94	252	499979	43.86	ng	98
89) Benzo(a)pyrene	20.29	252	275123	25.23	ng	97
90) Dibenzo(a,h)anthracene	21.83	278	33865	3.76	ng	94
91) Benzo(g,h,i)perylene	22.07	276	159755	18.08	ng	98

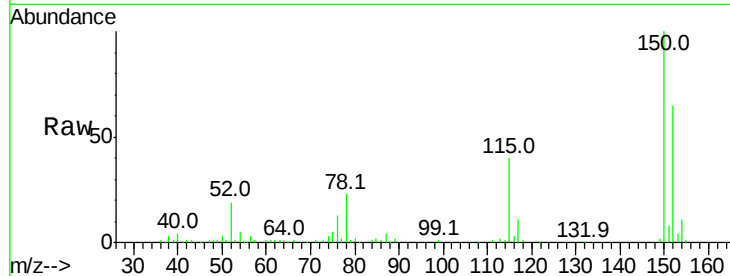
(#) = qualifier out of range (m) = manual integration (+) = signals summed



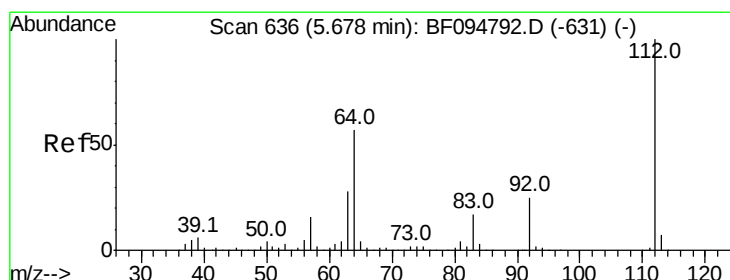
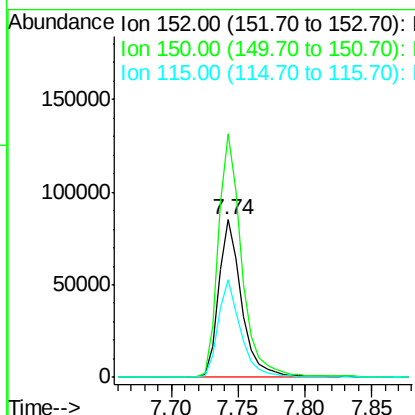
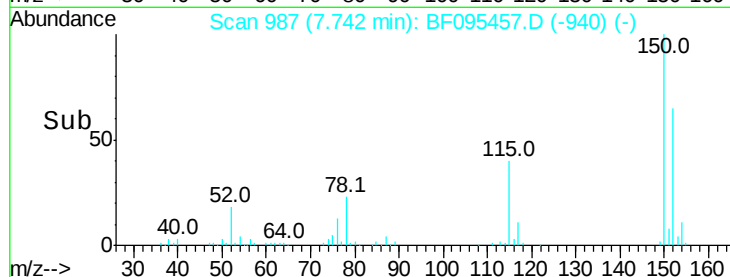
#1

1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 7.74 min Scan# 987
Delta R.T. -0.02 min
Lab File: BF095457.D
Acq: 26 May 2017 13:09

Tot Ion	Ratio	Lower	Upper
152	100		
150	154.5	126.2	189.2
115	61.9	52.2	78.2



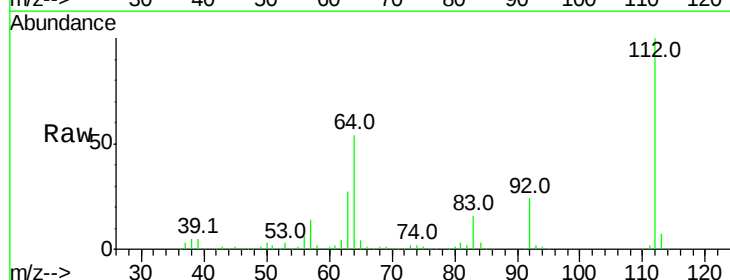
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



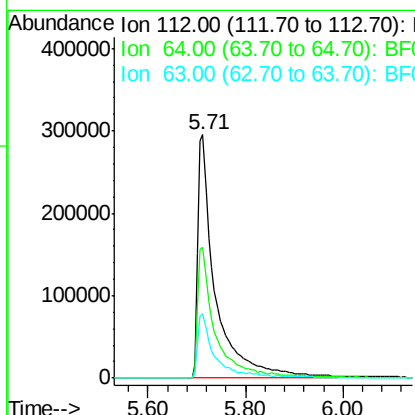
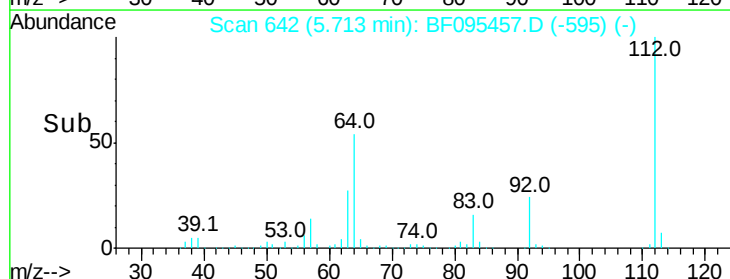
#5

2-Fluorophenol
Concen: 120.04 ng
RT: 5.71 min Scan# 642
Delta R.T. -0.02 min
Lab File: BF095457.D
Acq: 26 May 2017 13:09

Tgt Ion	Ratio	Lower	Upper
112	100		
64	53.6	46.0	69.0
63	26.6	23.4	35.0



Abundance Ion 112.00 (111.70 to 112.70): E
Ion 64.00 (63.70 to 64.70): BF0
Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 121.66 ng

RT: 7.29 min Scan# 910

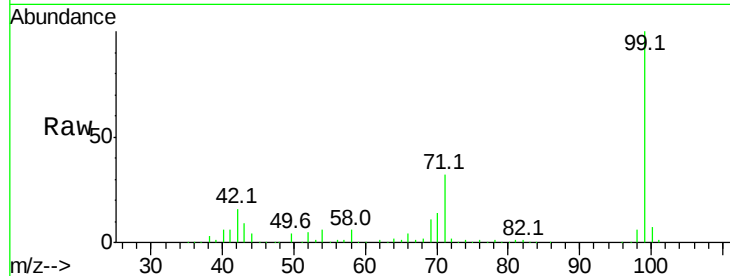
Delta R.T. -0.02 min

Lab File: BF095457.D

Acq: 26 May 2017 13:09

Tot Ion: 99 Resp: 910681

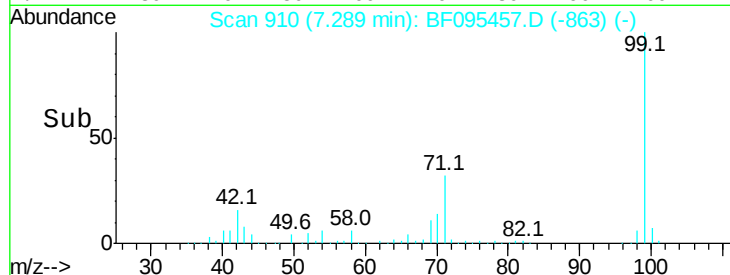
Ion	Ratio	Lower	Upper
99	100		
42	15.7	13.5	20.3
71	32.0	24.5	36.7



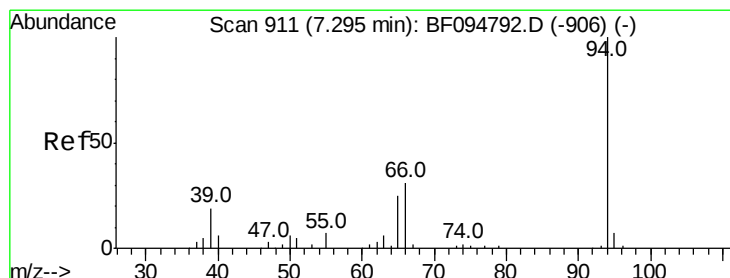
Abundance Ion 99.00 (98.70 to 99.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 71.00 (70.70 to 71.70): BF0



Time-->



#10

Phenol

Concen: 2.38 ng

RT: 7.31 min Scan# 914

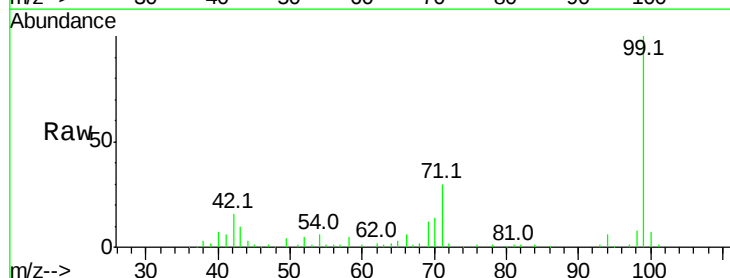
Delta R.T. -0.02 min

Lab File: BF095457.D

Acq: 26 May 2017 13:09

Tgt Ion: 94 Resp: 18769

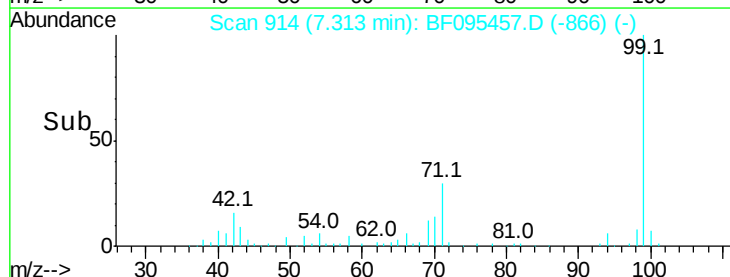
Ion	Ratio	Lower	Upper
94	100		
65	43.3	9.9	49.9
66	104.7	23.1	63.1#



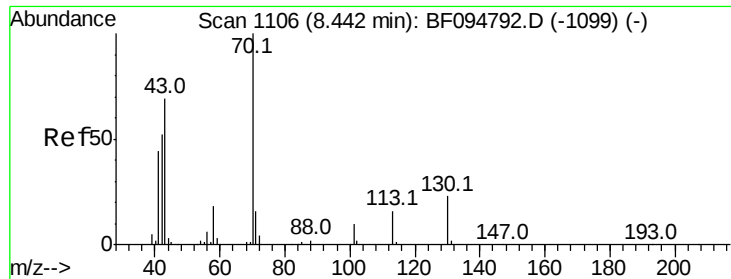
Abundance Ion 94.00 (93.70 to 94.70): BF0

Ion 65.00 (64.70 to 65.70): BF0

Ion 66.00 (65.70 to 66.70): BF0

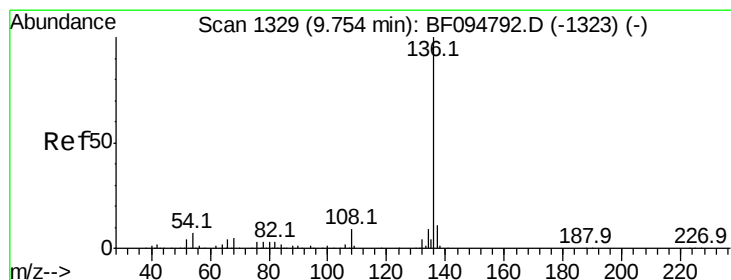
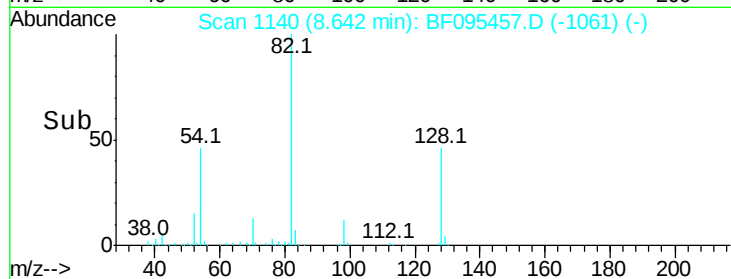
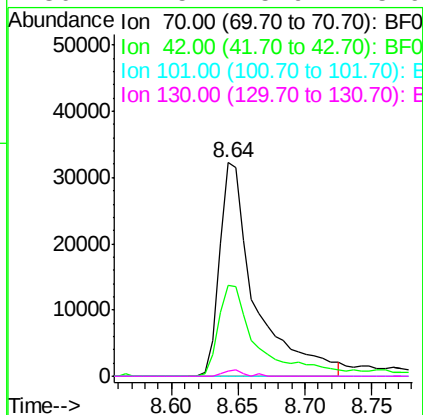
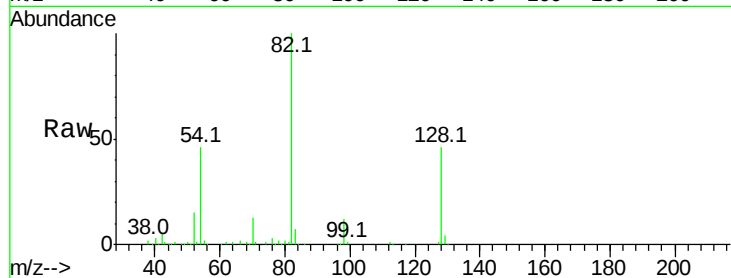


Time-->



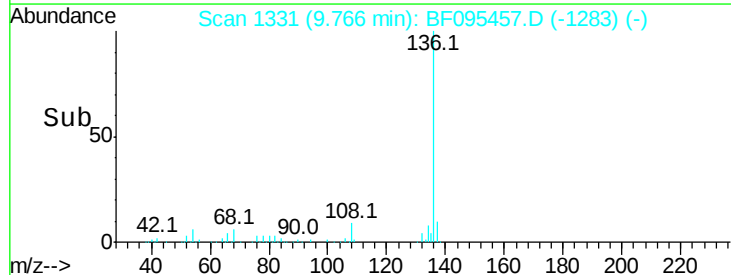
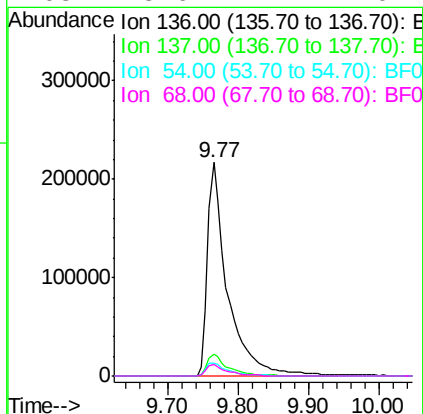
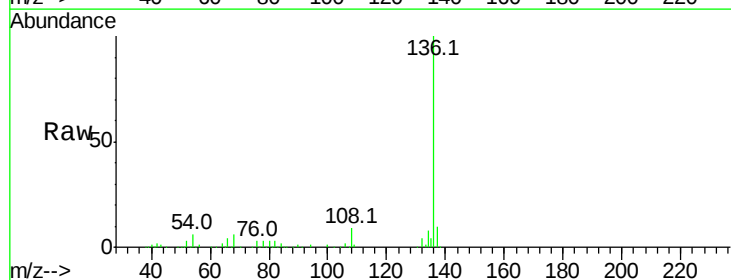
#19
n-Nitroso-di-n-propylamine
Concen: 11.97 ng
RT: 8.64 min Scan# 1140
Delta R.T. 0.16 min
Lab File: BF095457.D
Acq: 26 May 2017 13:09

Tot Ion: 70 Resp: 60581
Ion Ratio Lower Upper
70 100
42 42.4 47.2 70.8#
101 0.0 7.2 10.8#
130 2.5 15.9 23.9#



#21
Naphthalene-d8
Concen: 20.00 ng
RT: 9.77 min Scan# 1331
Delta R.T. -0.02 min
Lab File: BF095457.D
Acq: 26 May 2017 13:09

Tgt Ion: 136 Resp: 428294
Ion Ratio Lower Upper
136 100
137 10.1 8.5 12.7
54 6.2 4.9 7.3
68 5.6 4.1 6.1





#23

Nitrobenzene-d5

Concen: 76.15 ng

RT: 8.64 min Scan# 1140

Delta R.T. -0.03 min

Lab File: BF095457.D

Acq: 26 May 2017 13:09

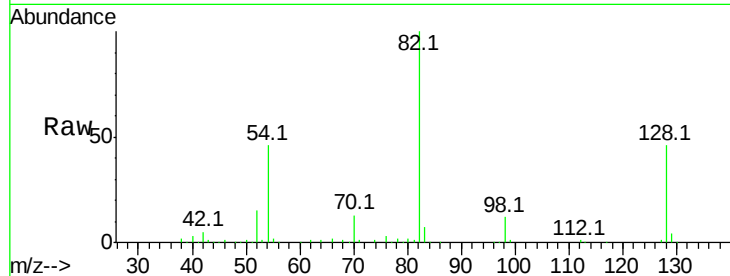
Tot Ion: 82 Resp: 517242

Ion Ratio Lower Upper

82 100

128 46.3 34.0 51.0

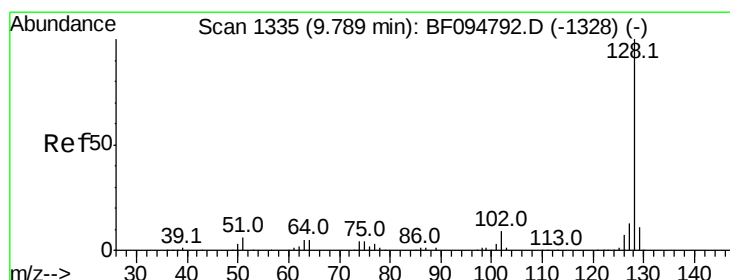
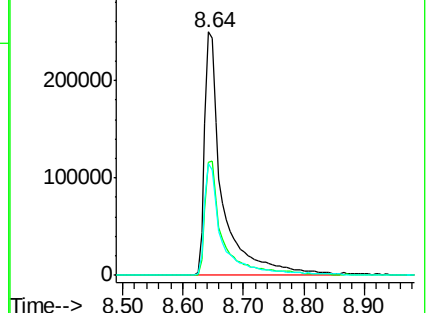
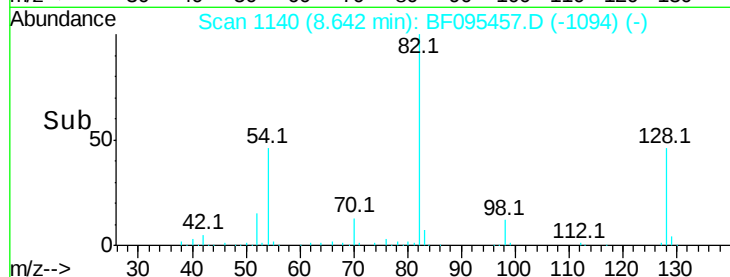
54 46.0 42.2 63.2



Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF0



#31

Naphthalene

Concen: 2.33 ng

RT: 9.80 min Scan# 1337

Delta R.T. -0.02 min

Lab File: BF095457.D

Acq: 26 May 2017 13:09

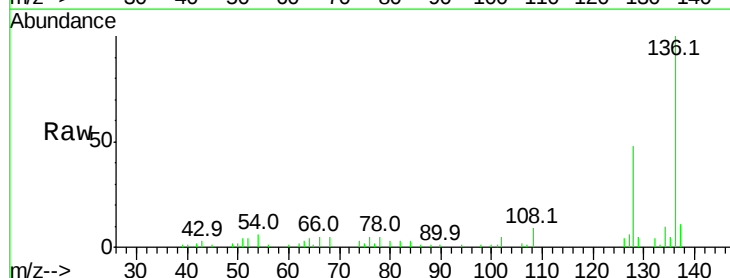
Tgt Ion: 128 Resp: 50244

Ion Ratio Lower Upper

128 100

129 11.3 9.0 13.6

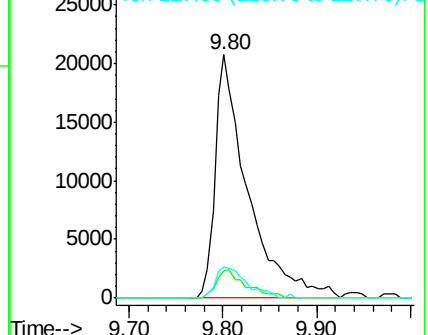
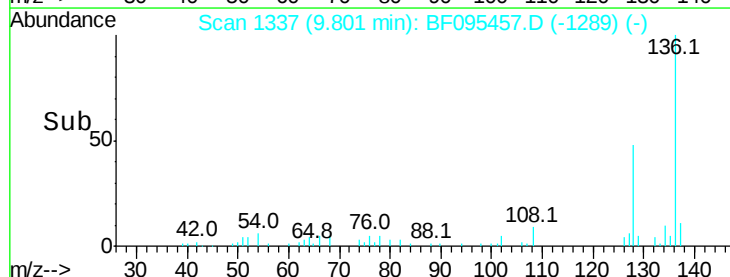
127 12.8 10.8 16.2

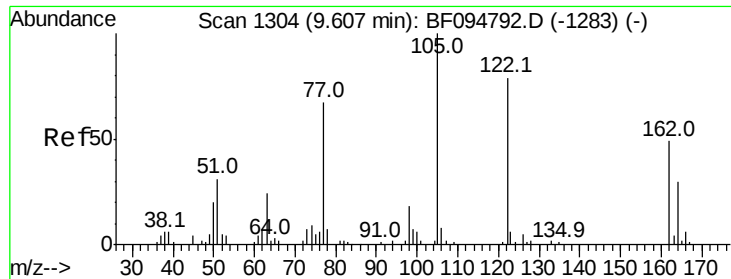


Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E





#32

Benzoic acid

Concen: 5.11 ng

RT: 9.70 min Scan# 1319

Delta R.T. 0.03 min

Lab File: BF095457.D

Acq: 26 May 2017 13:09

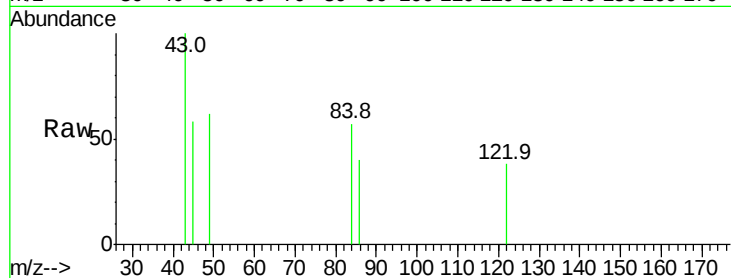
Tot Ion:122 Resp: 118

Ion Ratio Lower Upper

122 100

105 0.0 103.3 143.3#

77 0.0 73.7 113.7#



Abundance Ion 122.00 (121.70 to 122.70): E

Ion 105.00 (104.70 to 105.70): E

Ion 77.00 (76.70 to 77.70): BF0

9.70

300

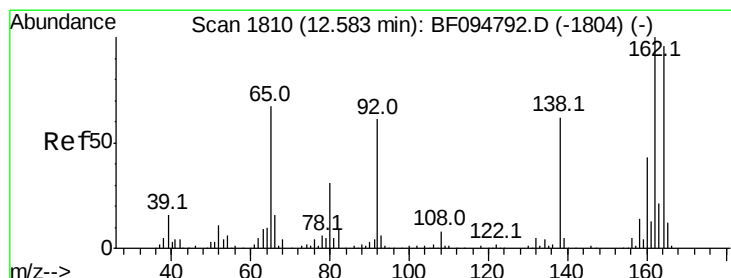
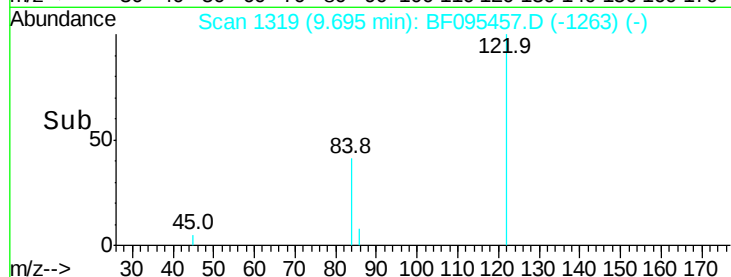
200

100

0

9.68 9.69 9.70 9.71

Time-->



#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 12.60 min Scan# 1812

Delta R.T. -0.02 min

Lab File: BF095457.D

Acq: 26 May 2017 13:09

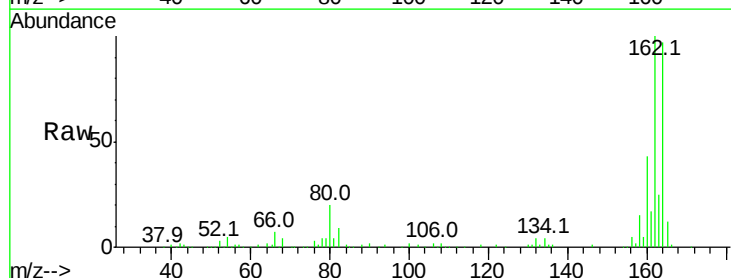
Tgt Ion:164 Resp: 204145

Ion Ratio Lower Upper

164 100

162 103.1 82.6 123.8

160 44.4 36.2 54.2



Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

12.60

200000

150000

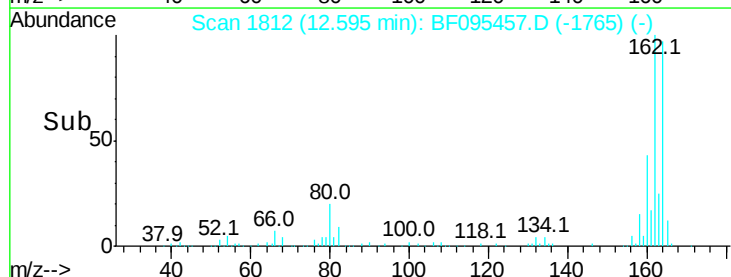
100000

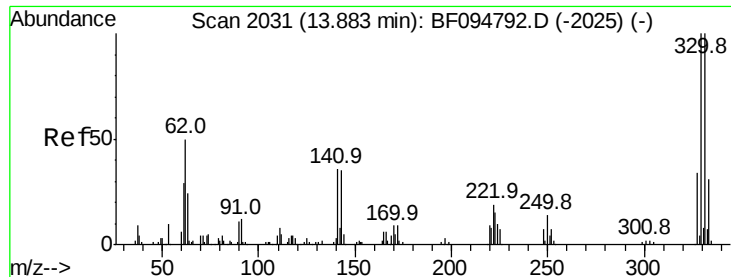
50000

0

12.50 12.60 12.70

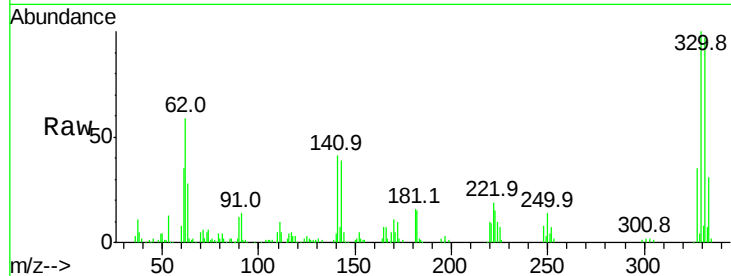
Time-->



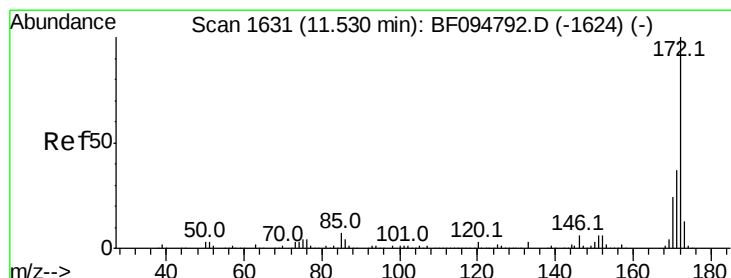
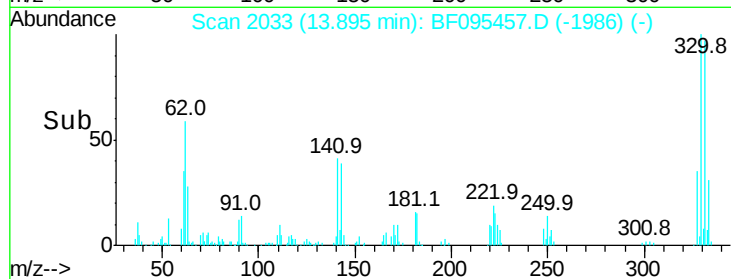
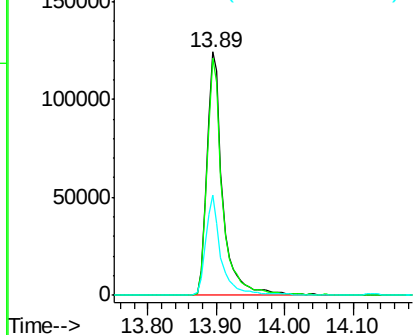


#41
 2,4,6-Tribromophenol
 Concen: 120.12 ng
 RT: 13.89 min Scan# 2033
 Delta R.T. -0.02 min
 Lab File: BF095457.D
 Acq: 26 May 2017 13:09

Tot Ion	Ratio	Lower	Upper
330	100		
332	95.9	76.6	115.0
141	40.4	31.4	47.2

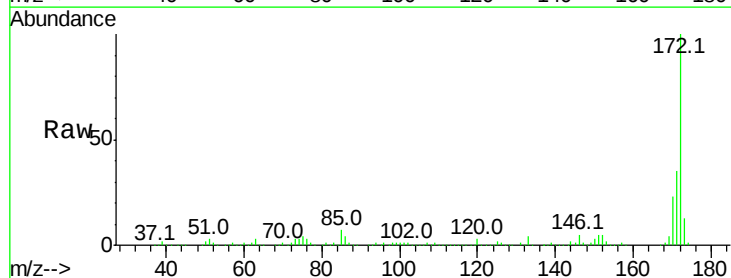


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

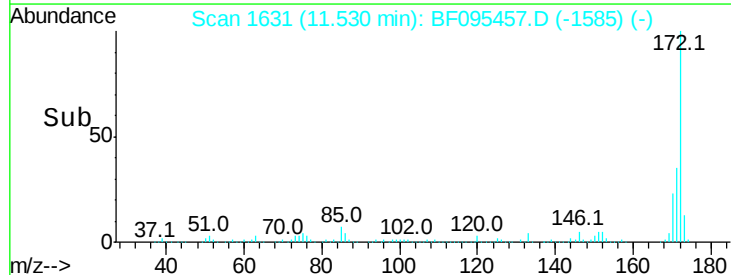
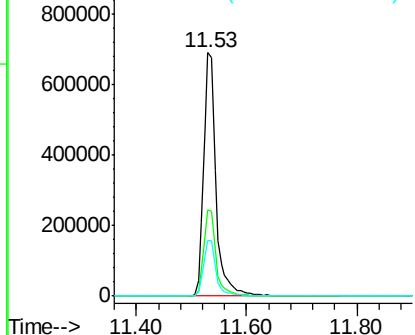


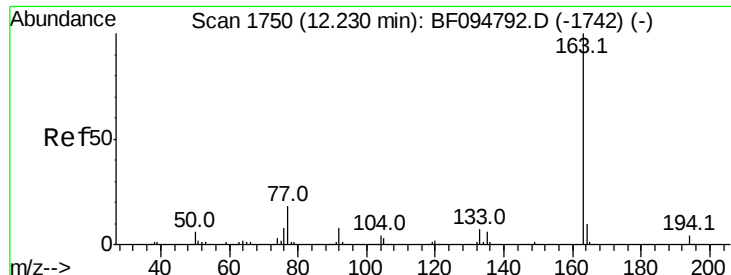
#44
 2-Fluorobiphenyl
 Concen: 73.76 ng
 RT: 11.53 min Scan# 1631
 Delta R.T. -0.03 min
 Lab File: BF095457.D
 Acq: 26 May 2017 13:09

Tgt Ion	Ratio	Lower	Upper
172	100		
171	35.3	29.6	44.4
170	22.8	19.8	29.8



Abundance Ion 172.00 (171.70 to 172.70): E
 Ion 171.00 (170.70 to 171.70): E
 Ion 170.00 (169.70 to 170.70): E





#49

Dimethylphthalate

Concen: 8.35 ng

RT: 12.24 min Scan# 1751

Delta R.T. -0.02 min

Lab File: BF095457.D

Acq: 26 May 2017 13:09

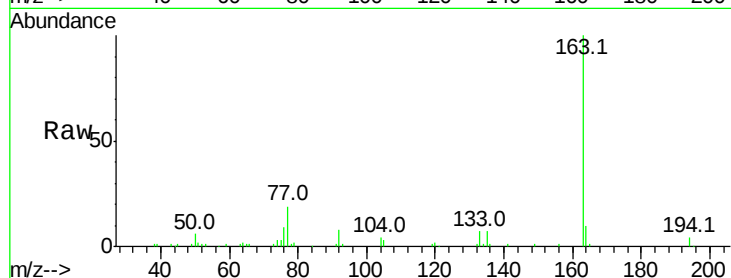
Tot Ion:163 Resp: 139883

Ion Ratio Lower Upper

163 100

194 3.7 2.6 4.0

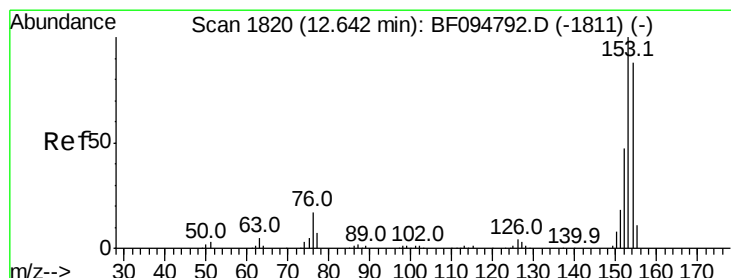
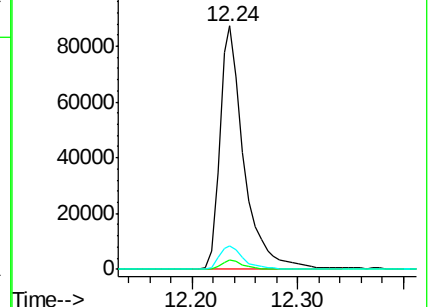
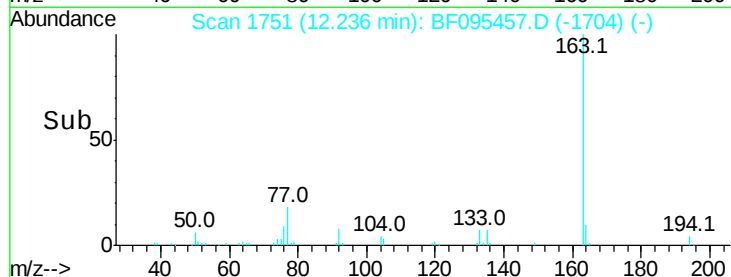
164 9.9 8.4 12.6



Abundance Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E



#51

Acenaphthene

Concen: 7.10 ng

RT: 12.65 min Scan# 1821

Delta R.T. -0.02 min

Lab File: BF095457.D

Acq: 26 May 2017 13:09

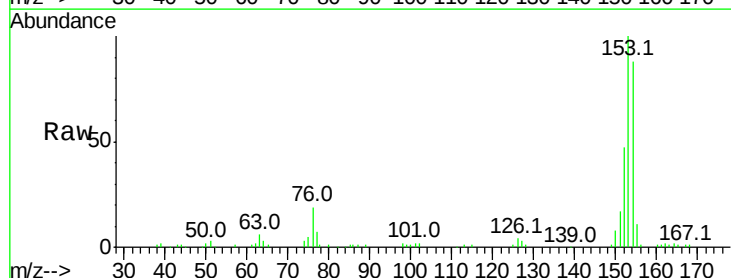
Tgt Ion:154 Resp: 92133

Ion Ratio Lower Upper

154 100

153 113.7 90.5 135.7

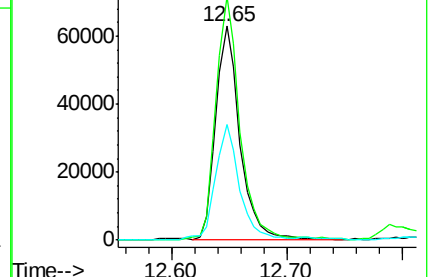
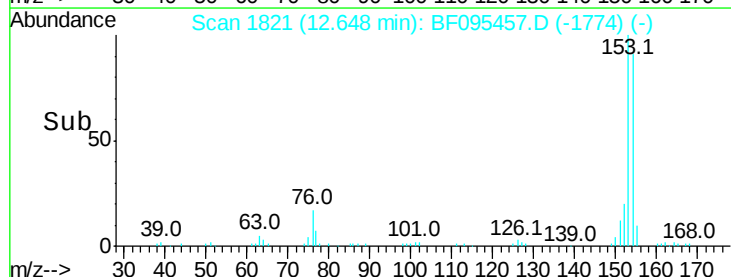
152 53.7 43.6 65.4

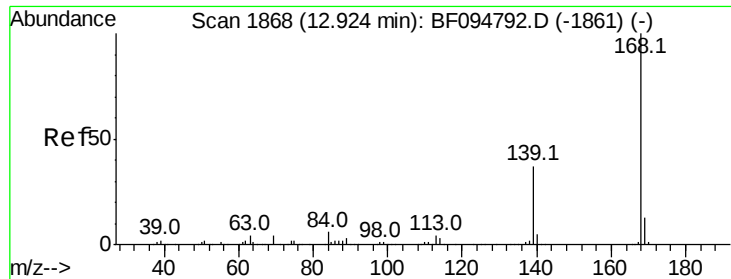


Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

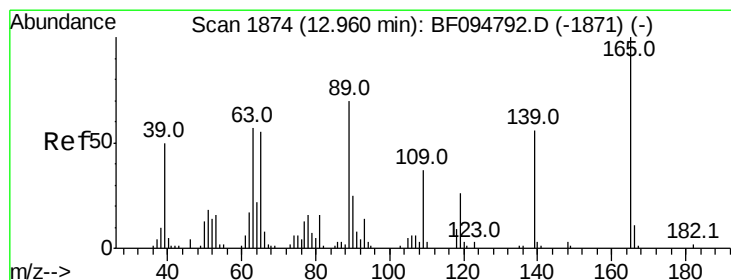
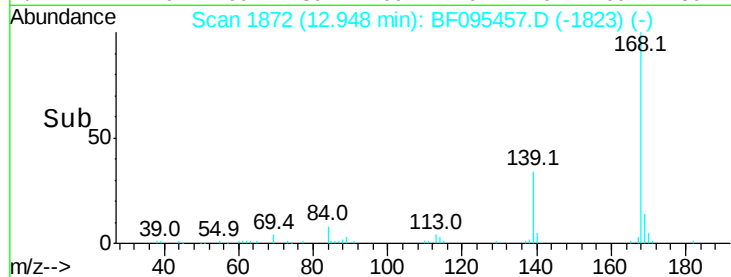
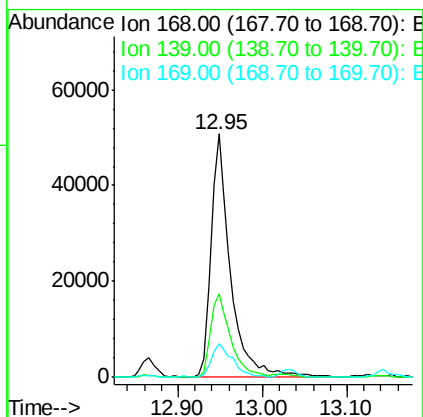
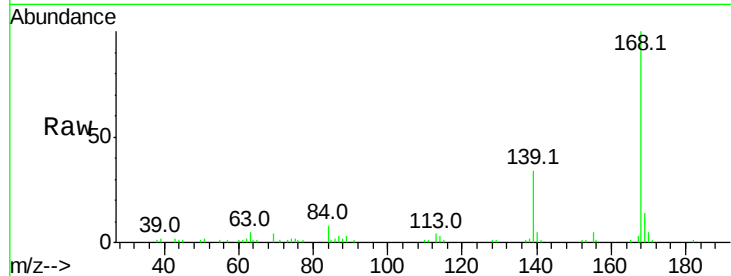
Ion 152.00 (151.70 to 152.70): E





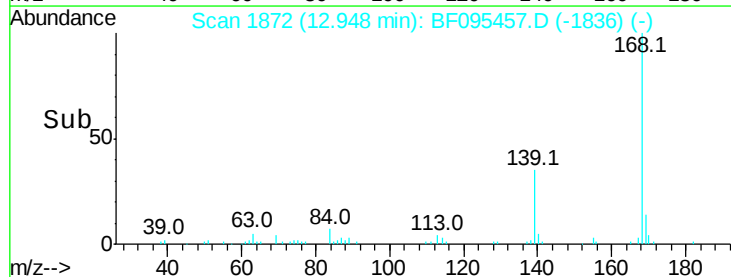
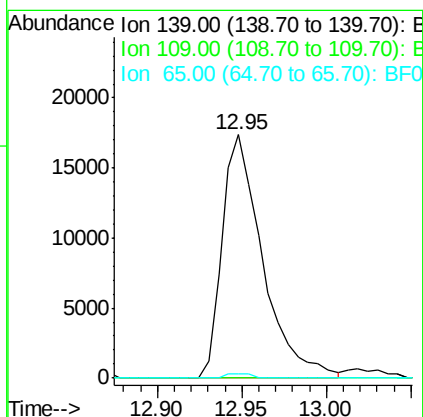
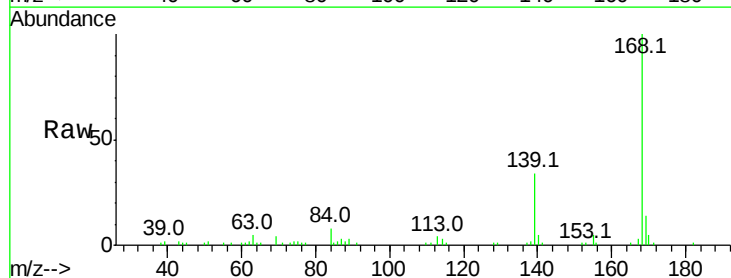
#54
Dibenzofuran
Concen: 4.59 ng
RT: 12.95 min Scan# 1872
Delta R.T. -0.01 min
Lab File: BF095457.D
Acq: 26 May 2017 13:09

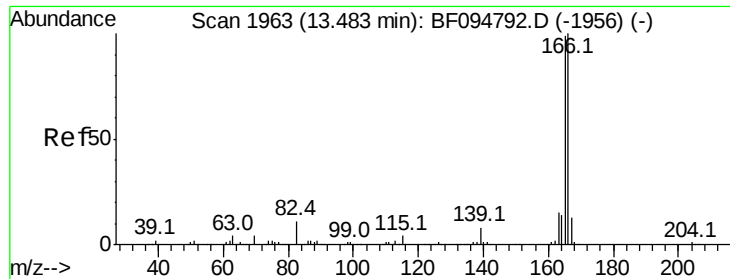
Tot Ion:168 Resp: 82521
Ion Ratio Lower Upper
168 100
139 34.2 30.6 45.8
169 13.9 10.8 16.2



#55
4-Nitrophenol
Concen: 13.15 ng
RT: 12.95 min Scan# 1872
Delta R.T. -0.09 min
Lab File: BF095457.D
Acq: 26 May 2017 13:09

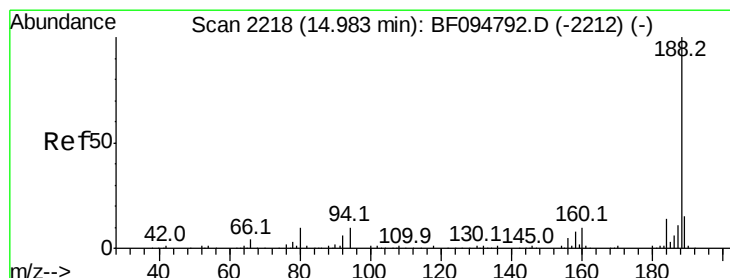
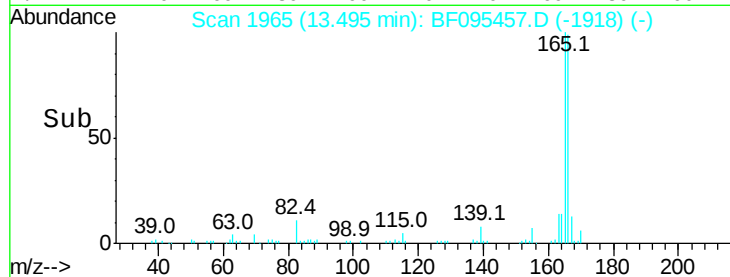
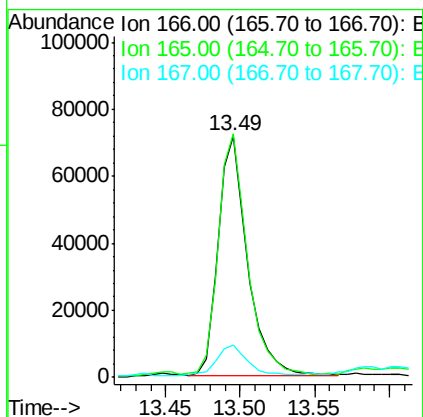
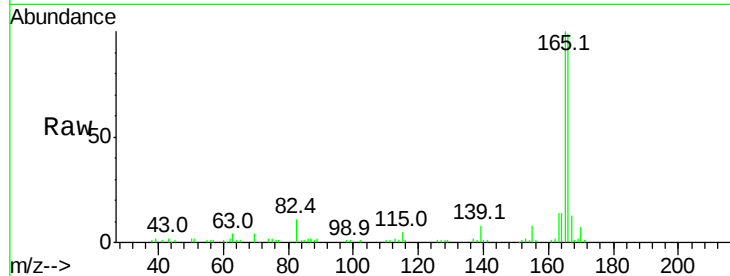
Tgt Ion:139 Resp: 28980
Ion Ratio Lower Upper
139 100
109 0.0 34.1 74.1#
65 2.0 31.4 71.4#





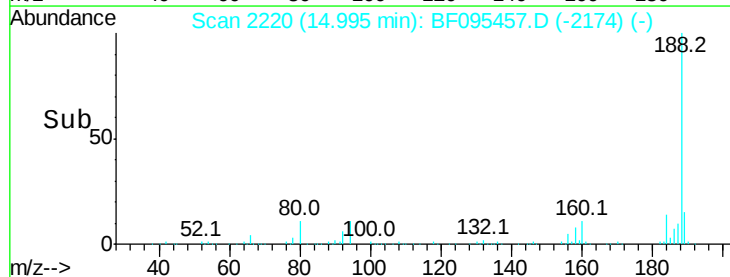
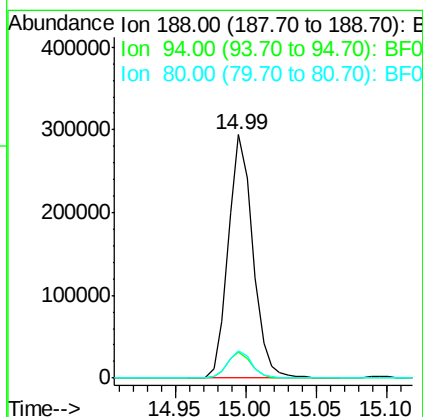
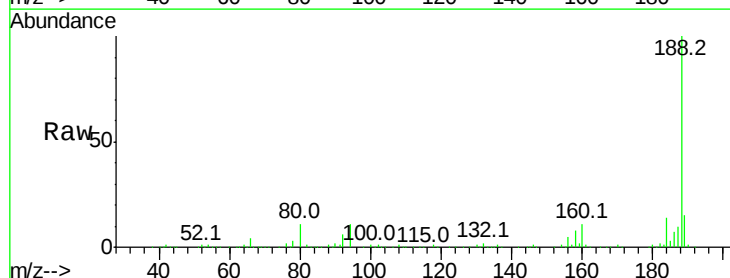
#57
Fluorene
 Concen: 6.29 ng
 RT: 13.49 min Scan# 1965
 Delta R.T. -0.02 min
 Lab File: BF095457.D
 Acq: 26 May 2017 13:09

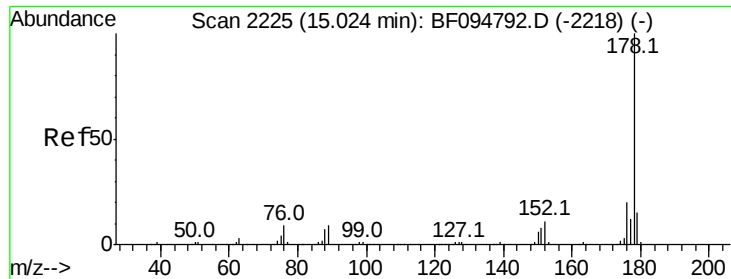
Tot Ion	Ratio	Lower	Upper
166	100		
165	100.9	78.8	118.2
167	13.3	10.6	16.0



#63
Phenanthrene-d10
 Concen: 20.00 ng
 RT: 14.99 min Scan# 2220
 Delta R.T. -0.03 min
 Lab File: BF095457.D
 Acq: 26 May 2017 13:09

Tgt Ion	Ratio	Lower	Upper
188	100		
94	10.8	9.4	14.2
80	11.5	10.2	15.2

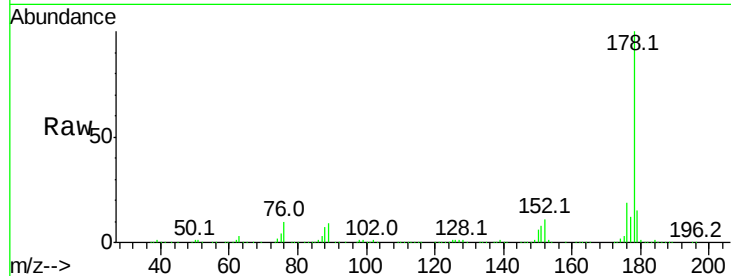




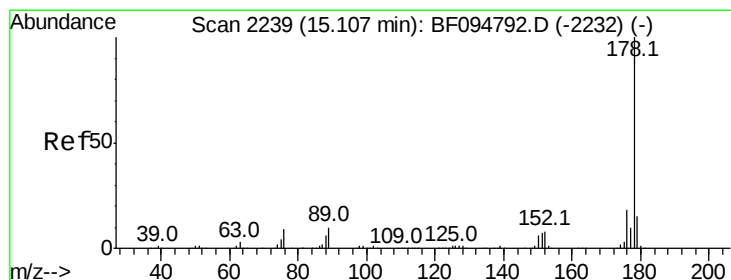
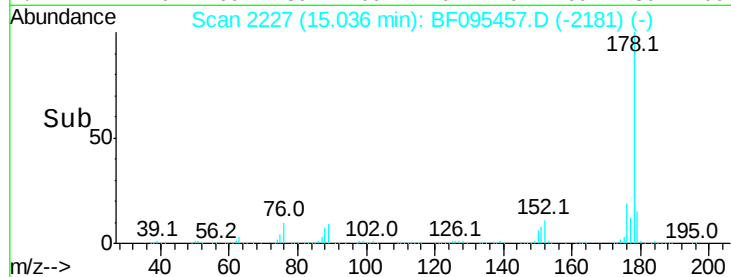
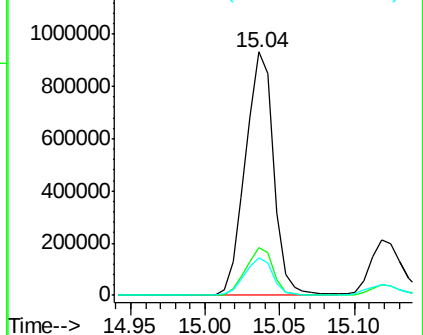
#70
Phenanthrene
Concen: 59.87 ng
RT: 15.04 min Scan# 2227
Delta R.T. -0.03 min
Lab File: BF095457.D
Acq: 26 May 2017 13:09

Tot Ion:178 Resp: 1223957

Ion	Ratio	Lower	Upper
178	100		
176	19.4	16.2	24.4
179	15.4	12.6	19.0



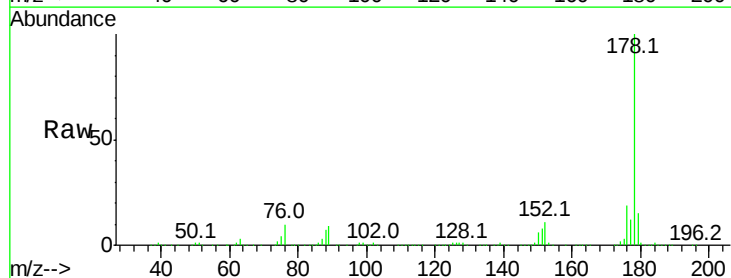
Abundance Ion 178.00 (177.70 to 178.70): E
Ion 176.00 (175.70 to 176.70): E
Ion 179.00 (178.70 to 179.70): E



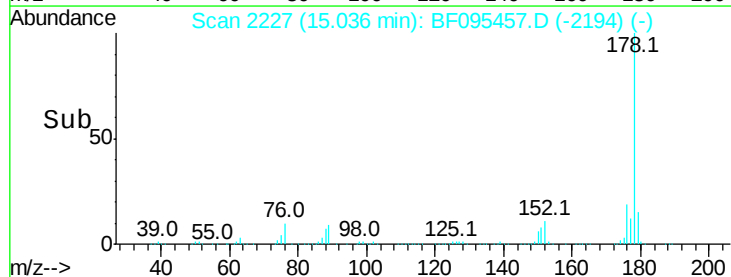
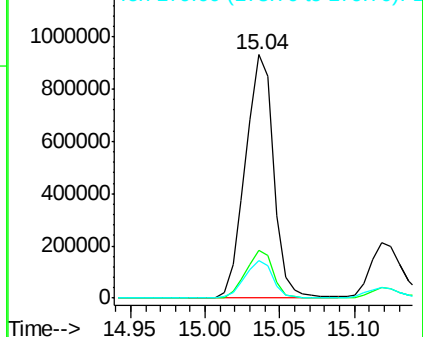
#71
Anthracene
Concen: 58.61 ng
RT: 15.04 min Scan# 2227
Delta R.T. -0.11 min
Lab File: BF095457.D
Acq: 26 May 2017 13:09

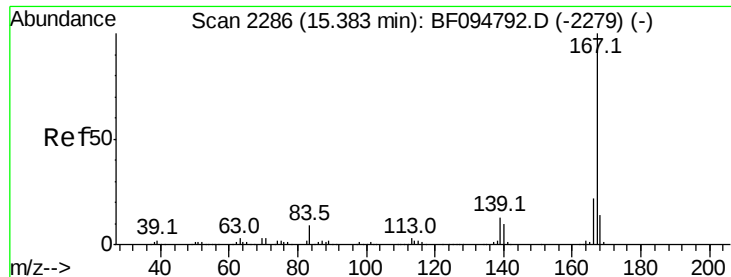
Tgt Ion:178 Resp: 1223957

Ion	Ratio	Lower	Upper
178	100		
176	19.4	15.8	23.8
179	15.4	12.7	19.1



Abundance Ion 178.00 (177.70 to 178.70): E
Ion 176.00 (175.70 to 176.70): E
Ion 179.00 (178.70 to 179.70): E





#72

Carbazole

Concen: 5.96 ng

RT: 15.41 min Scan# 2291

Delta R.T. -0.01 min

Lab File: BF095457.D

Acq: 26 May 2017 13:09

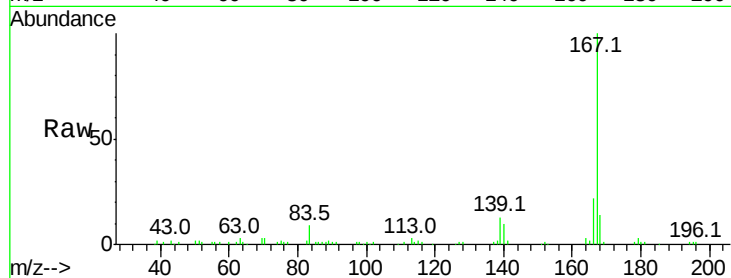
Tot Ion:167 Resp: 113181

Ion Ratio Lower Upper

167 100

166 22.0 18.1 27.1

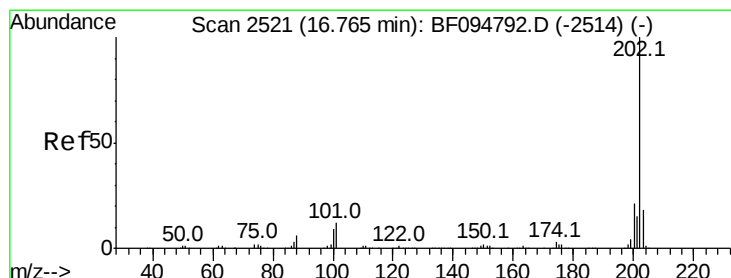
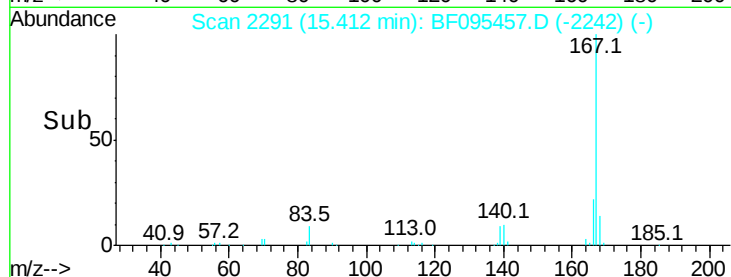
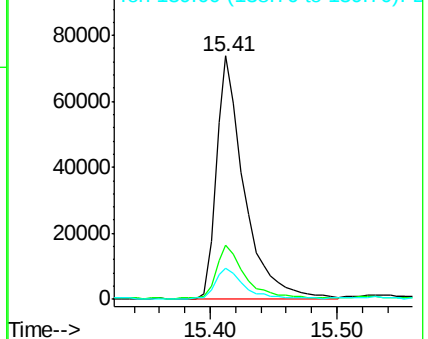
139 12.7 11.7 17.5



Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E



#74

Fluoranthene

Concen: 62.40 ng

RT: 16.78 min Scan# 2524

Delta R.T. -0.02 min

Lab File: BF095457.D

Acq: 26 May 2017 13:09

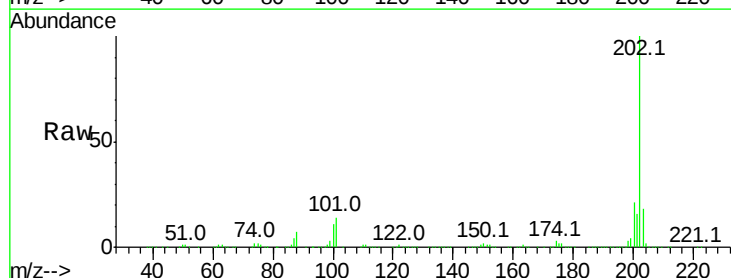
Tgt Ion:202 Resp: 1308428

Ion Ratio Lower Upper

202 100

101 14.1 0.0 33.2

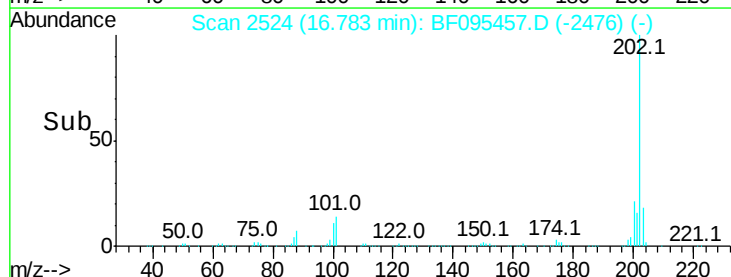
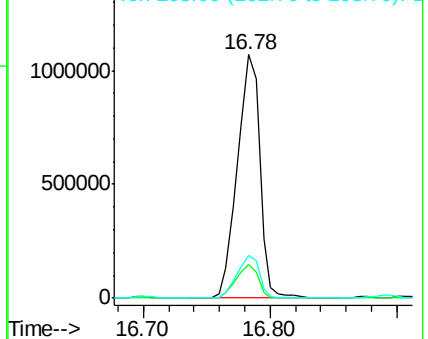
203 17.6 0.0 38.1

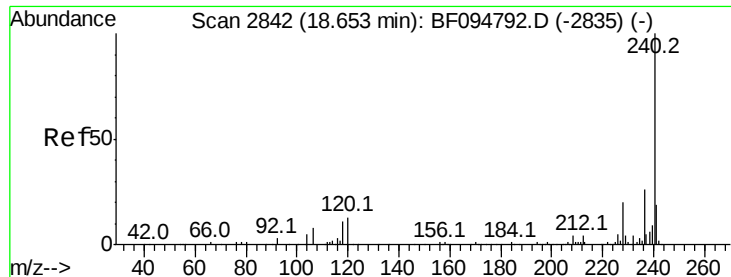


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E





#75

Chrysene-d12

Concen: 20.00 ng

RT: 18.67 min Scan# 2845

Delta R.T. -0.02 min

Lab File: BF095457.D

Acq: 26 May 2017 13:09

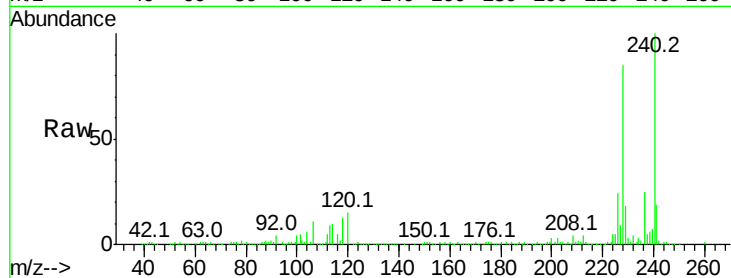
Tot Ion:240 Resp: 240211

Ion Ratio Lower Upper

240 100

120 15.2 5.8 8.8#

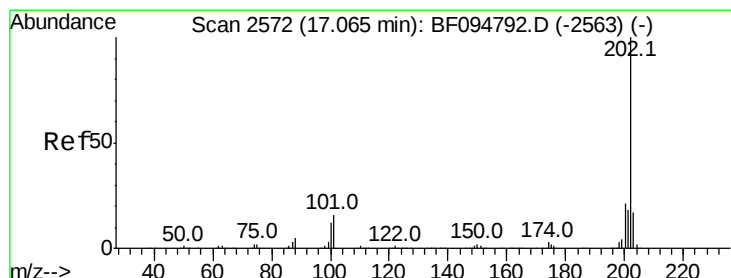
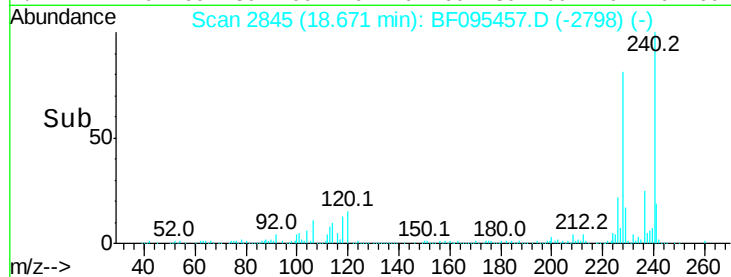
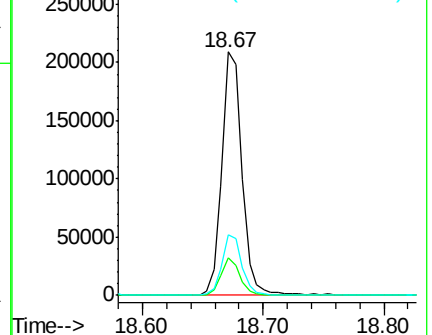
236 24.7 20.5 30.7



Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



#77

Pyrene

Concen: 64.00 ng

RT: 17.09 min Scan# 2576

Delta R.T. -0.02 min

Lab File: BF095457.D

Acq: 26 May 2017 13:09

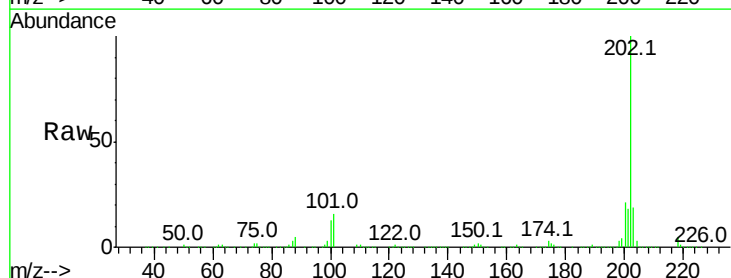
Tgt Ion:202 Resp: 1149818

Ion Ratio Lower Upper

202 100

200 21.0 17.6 26.4

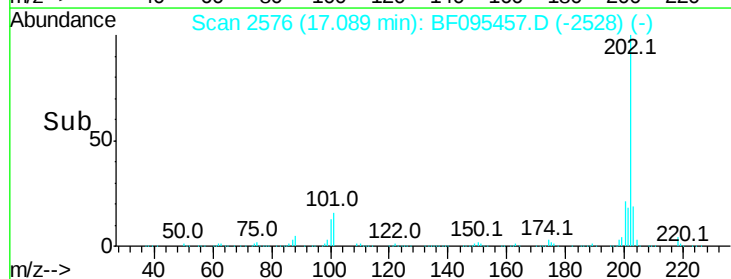
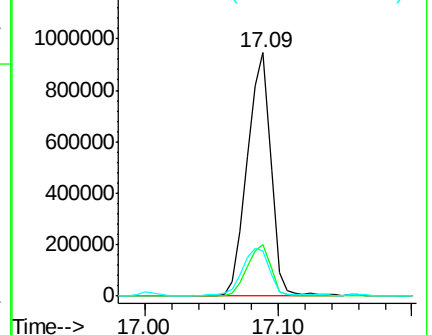
203 18.8 14.4 21.6

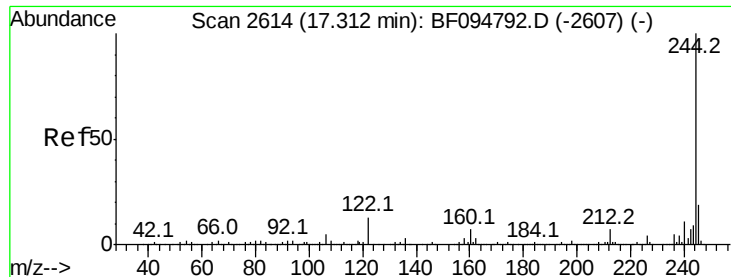


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

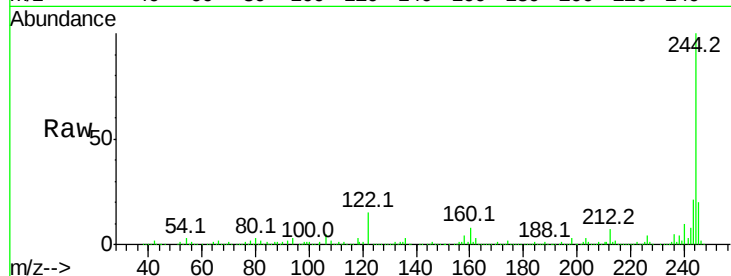
Ion 203.00 (202.70 to 203.70): E



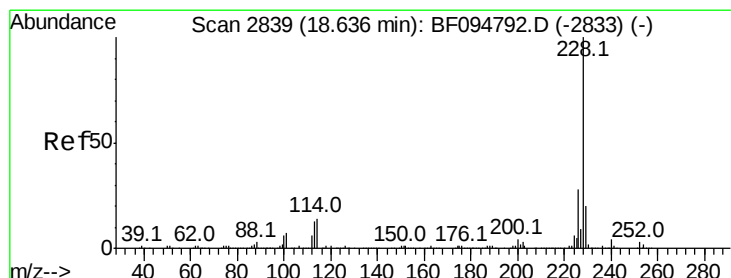
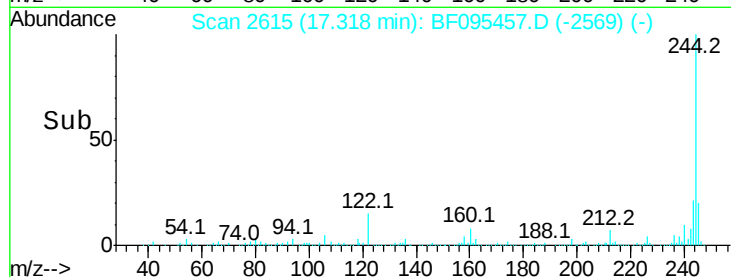
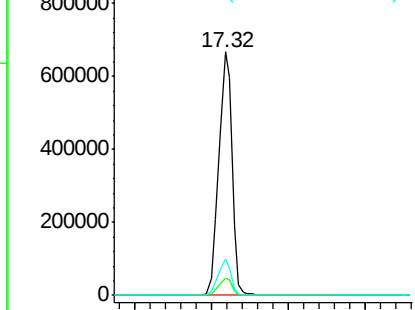


#78
 Terphenyl-d14
 Concen: 72.30 ng
 RT: 17.32 min Scan# 2615
 Delta R.T. -0.03 min
 Lab File: BF095457.D
 Acq: 26 May 2017 13:09

Tot Ion	Ratio	Lower	Upper
244	100		
212	6.9	6.0	9.0
122	15.0	10.3	15.5

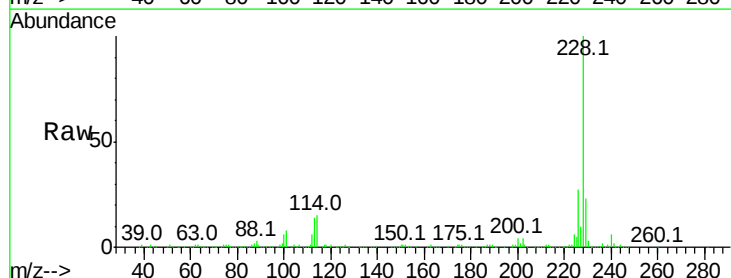


Abundance Ion 244.00 (243.70 to 244.70): E
 Ion 212.00 (211.70 to 212.70): E
 Ion 122.00 (121.70 to 122.70): E

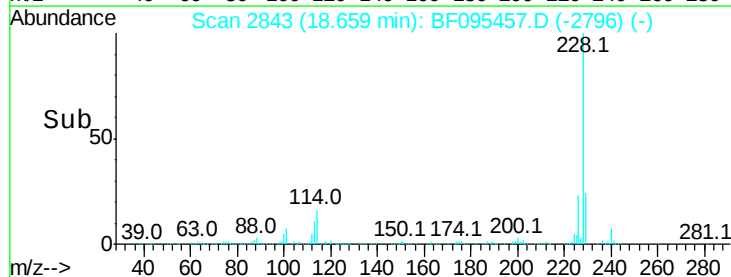
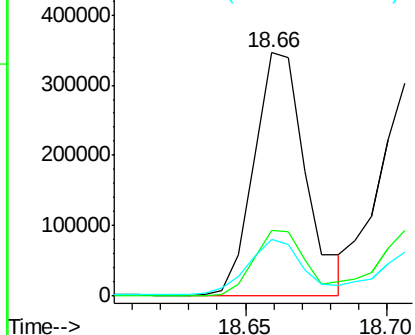


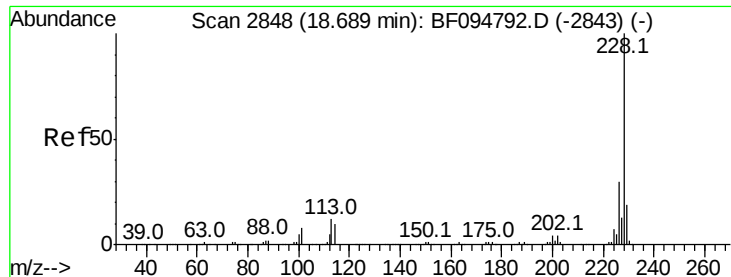
#80
 Benzo(a)anthracene
 Concen: 31.36 ng
 RT: 18.66 min Scan# 2843
 Delta R.T. -0.02 min
 Lab File: BF095457.D
 Acq: 26 May 2017 13:09

Tgt Ion	Ratio	Lower	Upper
228	100		
226	27.2	22.6	33.8
229	23.4	16.3	24.5



Abundance Ion 228.00 (227.70 to 228.70): E
 Ion 226.00 (225.70 to 226.70): E
 Ion 229.00 (228.70 to 229.70): E





#82

Chrysene

Concen: 29.09 ng

RT: 18.71 min Scan# 2851

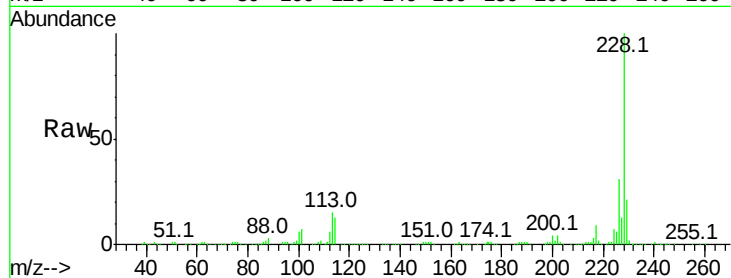
Delta R.T. -0.02 min

Lab File: BF095457.D

Acq: 26 May 2017 13:09

Tot Ion:228 Resp: 393191

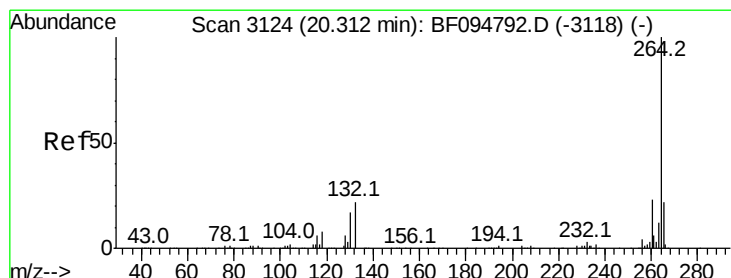
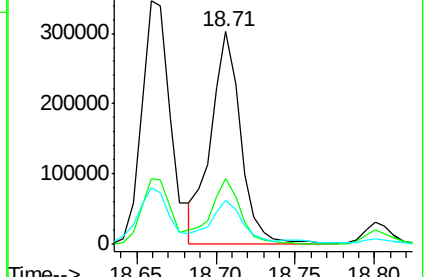
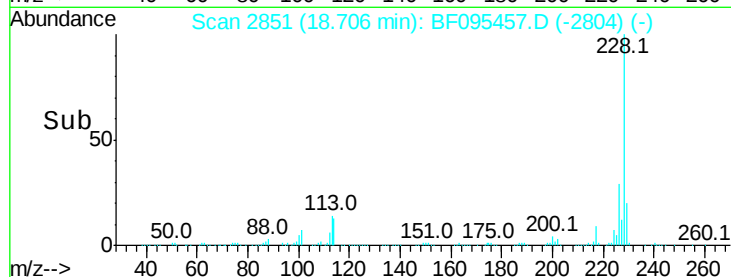
Ion	Ratio	Lower	Upper
228	100		
226	31.0	24.9	37.3
229	20.7	15.8	23.6



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#86

Perylene-d12

Concen: 20.00 ng

RT: 20.35 min Scan# 3131

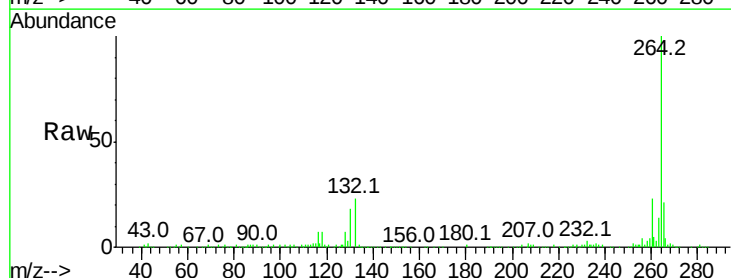
Delta R.T. -0.01 min

Lab File: BF095457.D

Acq: 26 May 2017 13:09

Tgt Ion:264 Resp: 191260

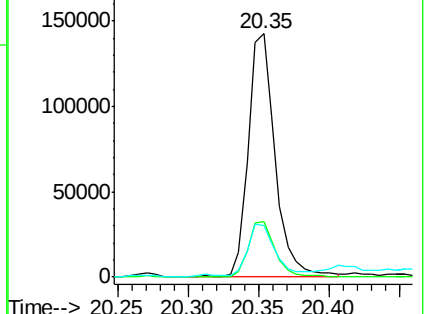
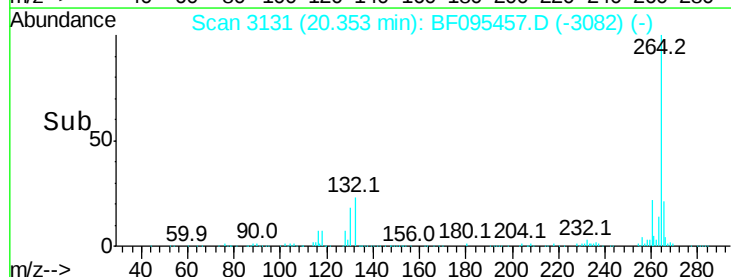
Ion	Ratio	Lower	Upper
264	100		
260	22.7	19.5	29.3
265	20.9	17.2	25.8

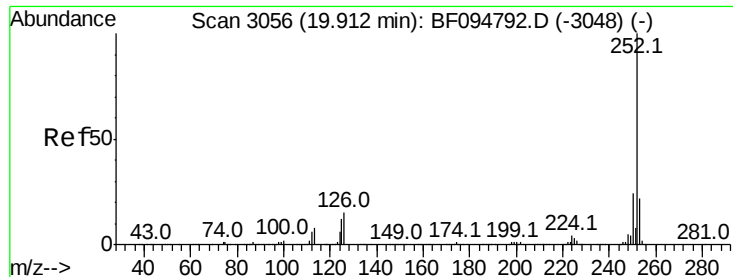


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

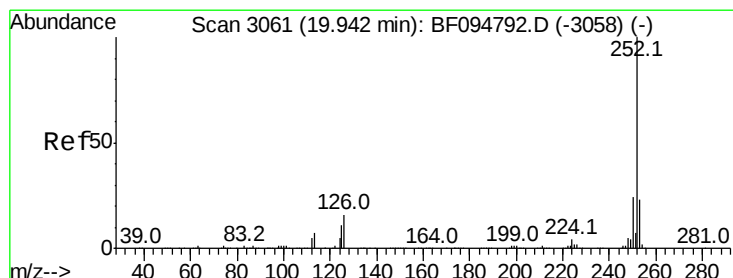
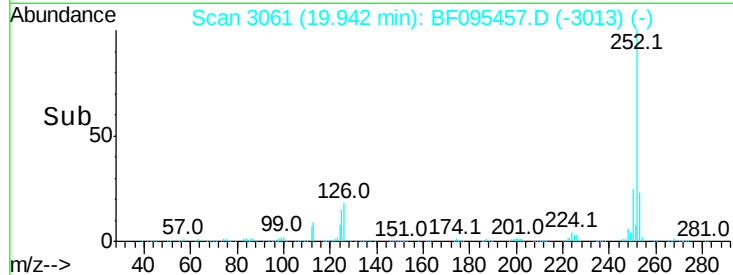
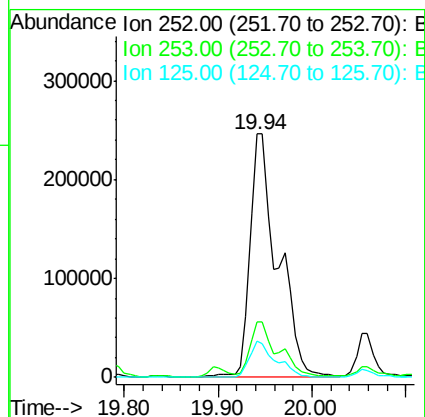
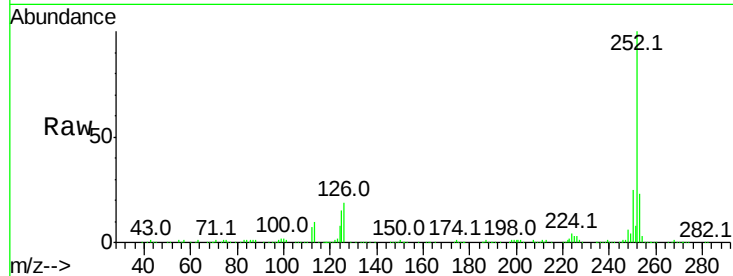
Ion 265.00 (264.70 to 265.70): E





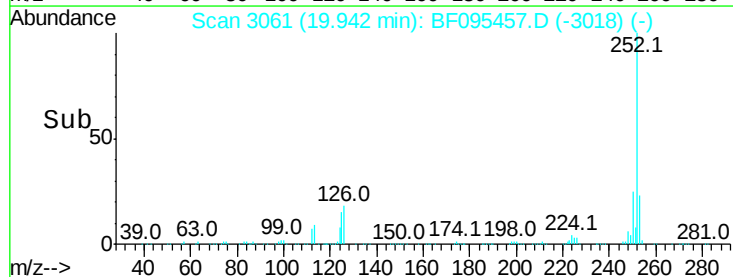
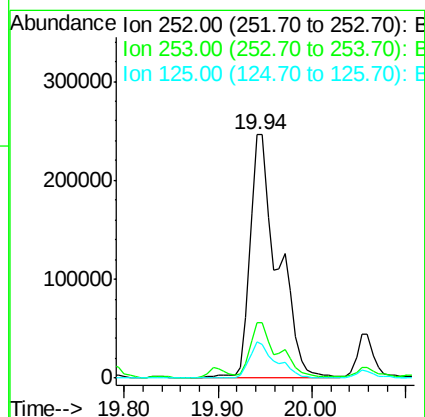
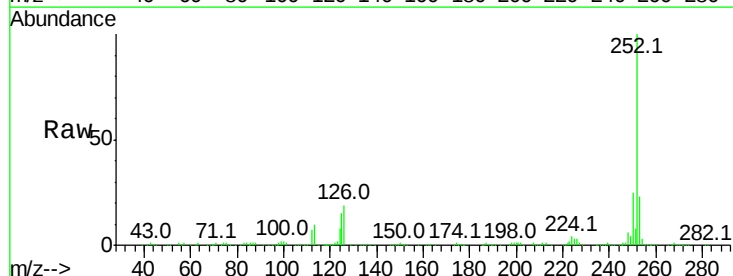
#87
Benzo(b)fluoranthene
Concen: 42.31 ng
RT: 19.94 min Scan# 3061
Delta R.T. -0.02 min
Lab File: BF095457.D
Acq: 26 May 2017 13:09

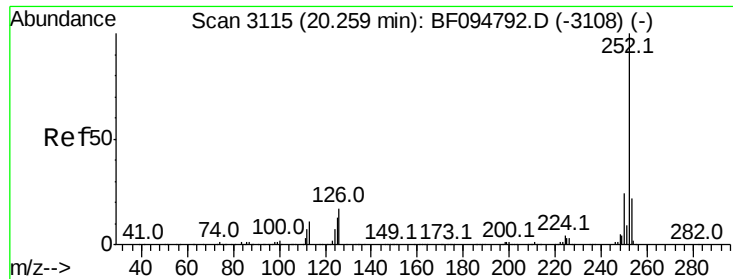
Tot Ion	Ratio	Lower	Upper
252	100		
253	22.8	18.1	27.1
125	14.8	9.8	14.8



#88
Benzo(k)fluoranthene
Concen: 43.86 ng
RT: 19.94 min Scan# 3061
Delta R.T. -0.05 min
Lab File: BF095457.D
Acq: 26 May 2017 13:09

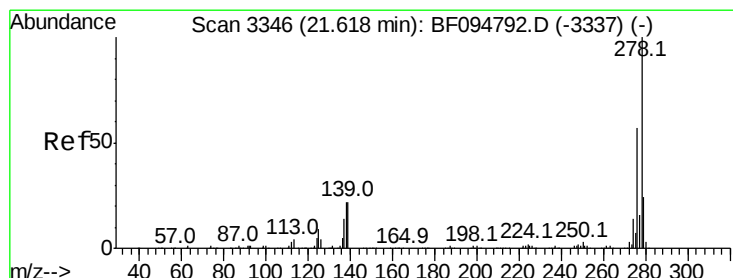
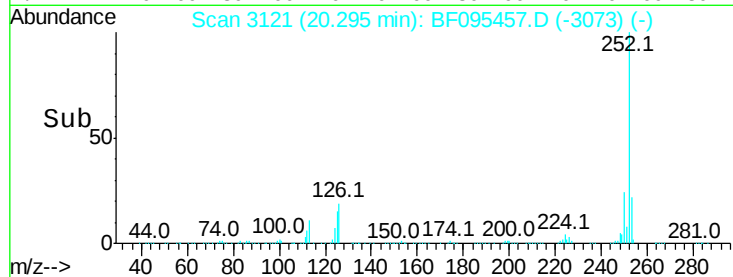
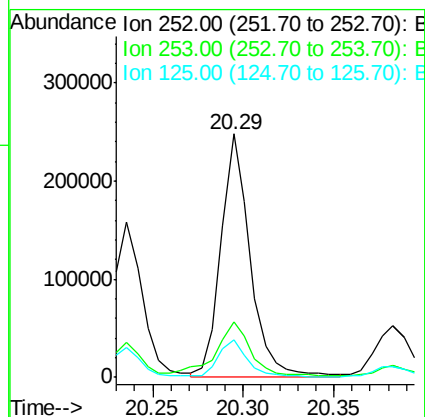
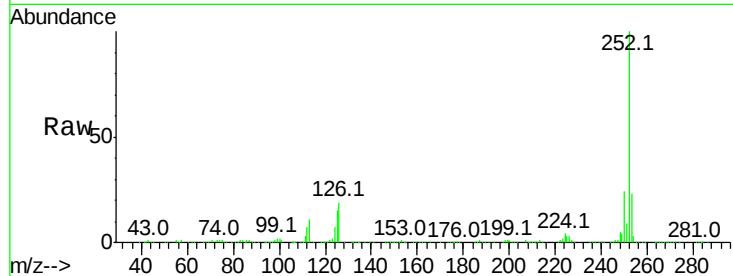
Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.8	18.4	27.6
125	14.8	13.1	19.7





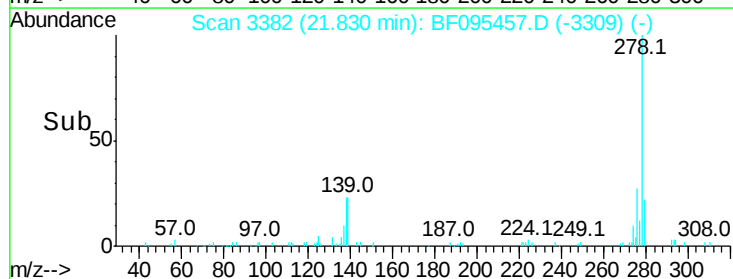
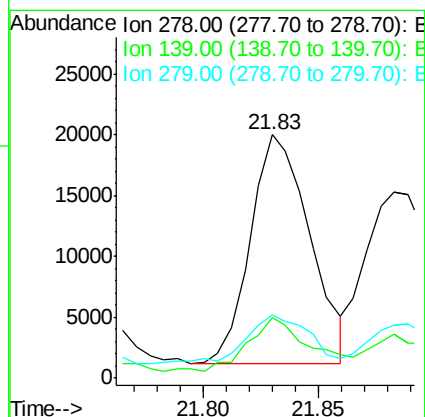
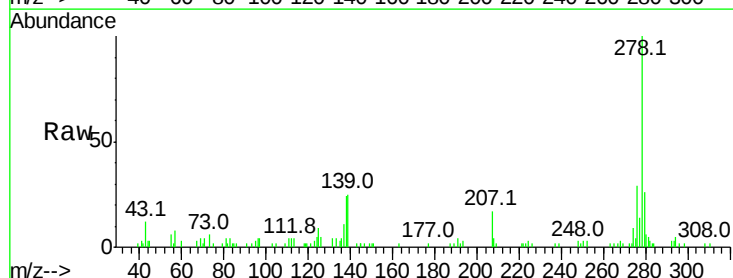
#89
Benzo(a)pyrene
Concen: 25.23 ng
RT: 20.29 min Scan# 3121
Delta R.T. -0.02 min
Lab File: BF095457.D
Acq: 26 May 2017 13:09

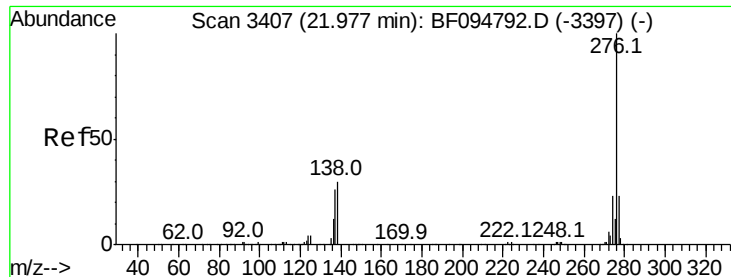
Tot Ion:	252	Resp:	275123
Ion	Ratio	Lower	Upper
252	100		
253	22.7	17.5	26.3
125	15.5	11.0	16.4



#90
Dibenzo(a,h)anthracene
Concen: 3.76 ng
RT: 21.83 min Scan# 3382
Delta R.T. 0.13 min
Lab File: BF095457.D
Acq: 26 May 2017 13:09

Tgt Ion:	278	Resp:	33865
Ion	Ratio	Lower	Upper
278	100		
139	24.8	16.6	24.8
279	25.7	19.3	28.9





#91

Benzo(a,h,i)perylene

Concen: 18.08 ng

RT: 22.07 min Scan# 3423

Delta R.T. -0.01 min

Lab File: BF095457.D

Acq: 26 May 2017 13:09

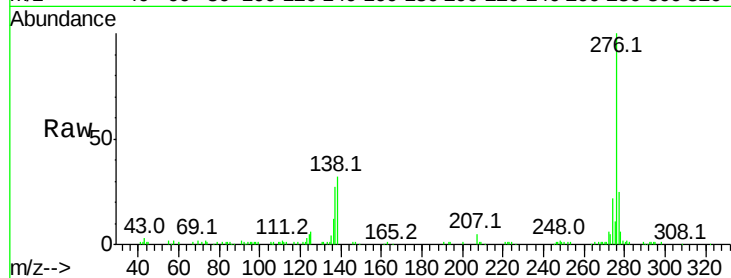
Tot Ion: 276 Resp: 159755

Ion Ratio Lower Upper

276 100

277 25.1 18.6 28.0

138 32.2 25.4 38.0



Abundance Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

