

Data Path : Z:\HPCHEM1\BNA F\DATA\BF052617\
 Data File : BF095460.D
 Acq On : 26 May 2017 14:46
 Operator : SJ/MA
 Sample : I3241-01
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

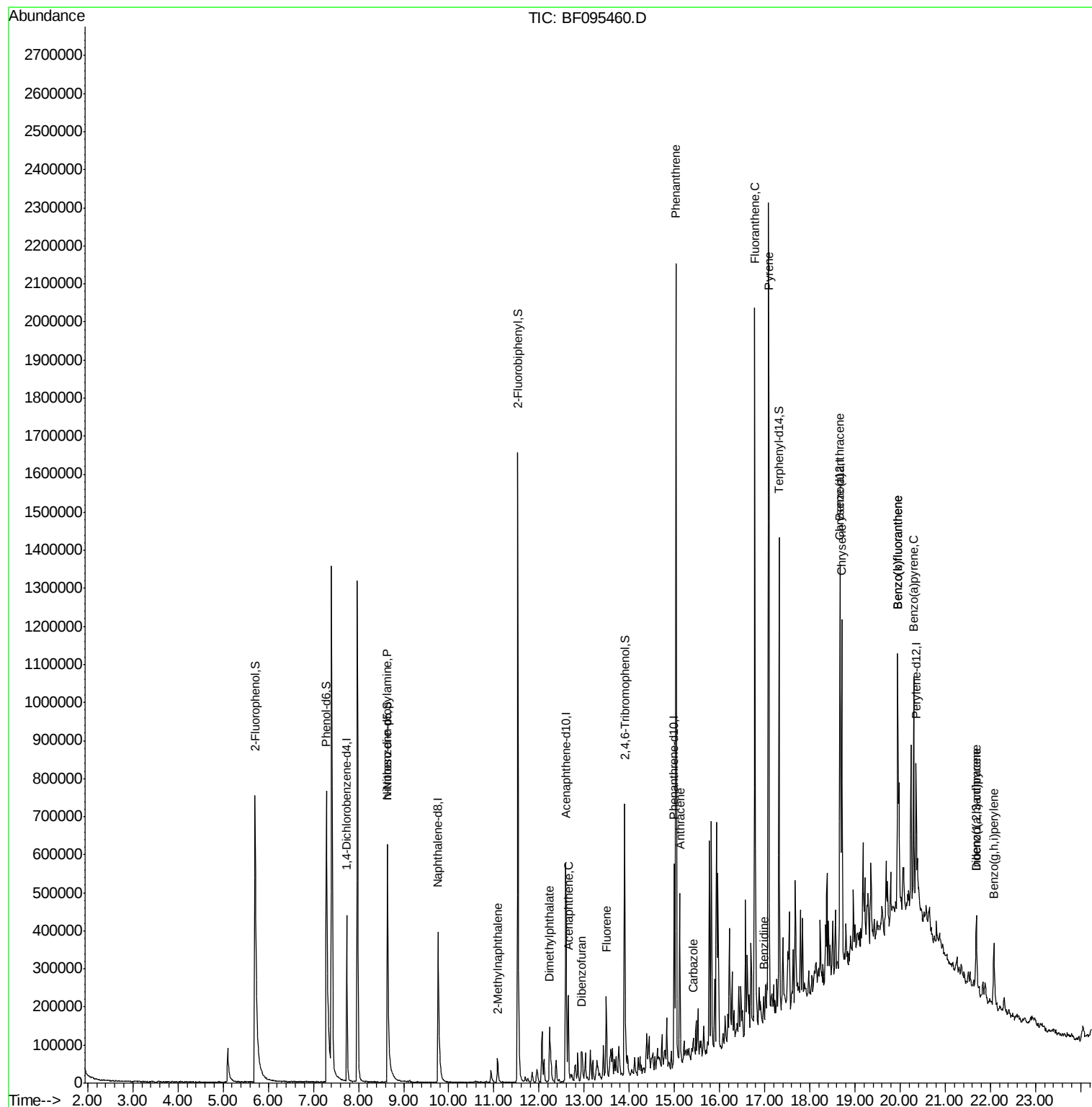
Quant Time: May 26 16:42:18 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF050217.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu May 18 17:07:53 2017
 Response via : Initial Calibration

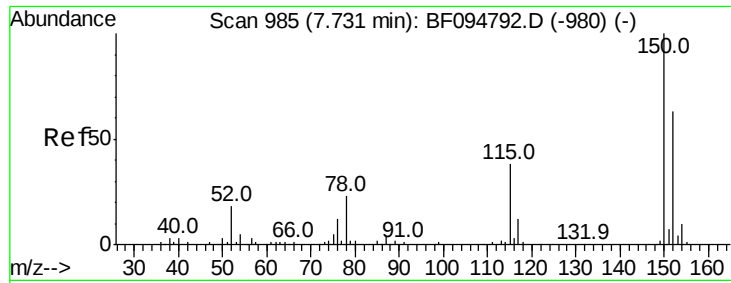
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.74	152	99994	20.00	ng	-0.02
21) Naphthalene-d8	9.77	136	406725	20.00	ng	-0.02
38) Acenaphthene-d10	12.59	164	174985	20.00	ng	-0.03
63) Phenanthrene-d10	14.99	188	268229	20.00	ng	-0.03
75) Chrysene-d12	18.68	240	203006	20.00	ng	-0.02
86) Perylene-d12	20.35	264	168118	20.00	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.71	112	619680	103.32	ng	-0.03
7) Phenol-d6	7.29	99	755844	105.03	ng	-0.02
23) Nitrobenzene-d5	8.64	82	435101	67.46	ng	-0.03
41) 2,4,6-Tribromophenol	13.89	330	126362	88.18	ng	-0.02
44) 2-Fluorobiphenyl	11.53	172	817266	67.22	ng	-0.03
78) Terphenyl-d14	17.32	244	463837	50.33	ng	-0.03
Target Compounds						Qvalue
19) n-Nitroso-di-n-propylamine	8.64	70	49810	10.23	ng	# 77
37) 2-Methylnaphthalene	11.08	142	33237	2.48	ng	92
49) Dimethylphthalate	12.23	163	103655	7.22	ng	98
51) Acenaphthene	12.65	154	74887	6.73	ng	98
54) Dibenzofuran	12.94	168	33039	2.15	ng	96
57) Fluorene	13.49	166	75129	5.61	ng	98
70) Phenanthrene	15.04	178	1165463	75.62	ng	99
71) Anthracene	15.12	178	260725	16.56	ng	97
72) Carbazole	15.41	167	35720	2.49	ng	98
74) Fluoranthene	16.78	202	971315	61.44	ng	99
76) Benzidine	16.99	184	288	6.63	ng	# 1
77) Pyrene	17.09	202	1098212	72.33	ng	99
80) Benzo(a)anthracene	18.67	228	446535	37.79	ng	98
82) Chrysene	18.71	228	447713	39.19	ng	99
85) Indeno(1,2,3-cd)pyrene	21.69	276	121957	13.15	ng	93
87) Benzo(b)fluoranthene	19.95	252	483035	46.50	ng	# 96
88) Benzo(k)fluoranthene	19.95	252	483035	48.20	ng	99
89) Benzo(a)pyrene	20.30	252	278390	29.04	ng	97
90) Dibenzo(a,h)anthracene	21.68	278	36994	4.67	ng	# 78
91) Benzo(a,h,i)perylene	22.08	276	123205	15.86	ng	97

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

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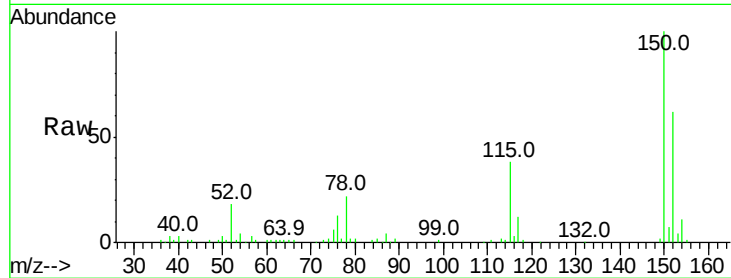




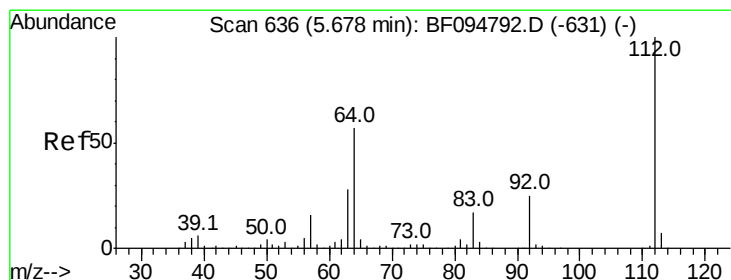
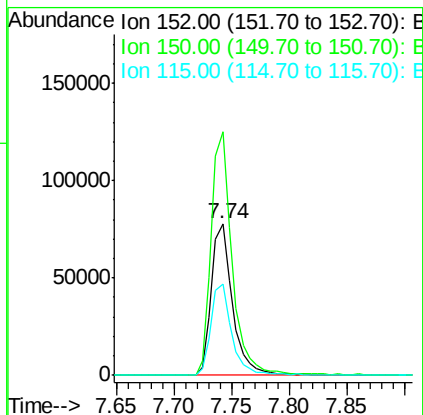
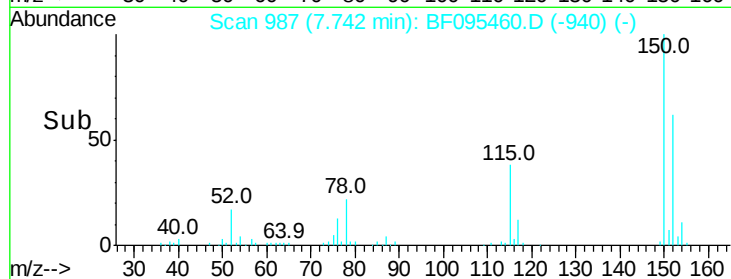
#1

1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 7.74 min Scan# 987
Delta R.T. -0.02 min
Lab File: BF095460.D
Acq: 26 May 2017 14:46

Tot Ion	Ratio	Lower	Upper
152	100		
150	160.2	126.2	189.2
115	60.3	52.2	78.2



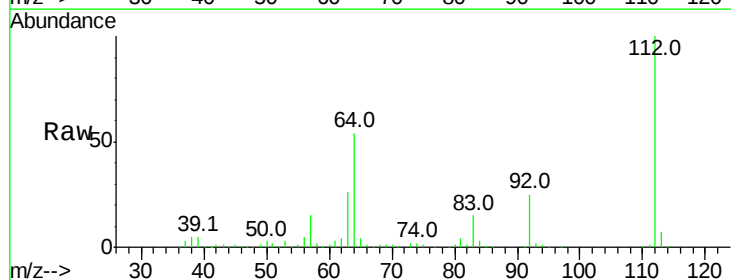
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



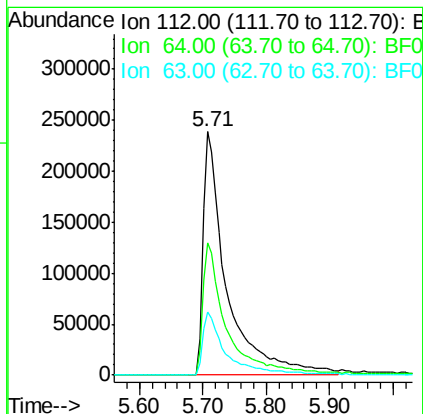
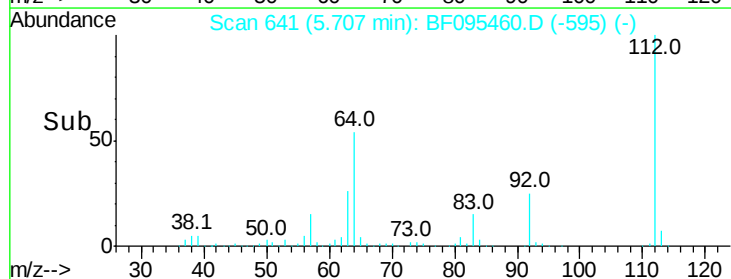
#5

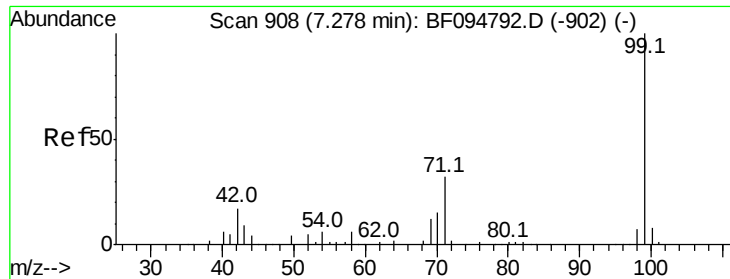
2-Fluorophenol
Concen: 103.32 ng
RT: 5.71 min Scan# 641
Delta R.T. -0.03 min
Lab File: BF095460.D
Acq: 26 May 2017 14:46

Tgt Ion	Ratio	Lower	Upper
112	100		
64	54.1	46.0	69.0
63	26.1	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: 105.03 ng

RT: 7.29 min Scan# 910

Delta R.T. -0.02 min

Lab File: BF095460.D

Acq: 26 May 2017 14:46

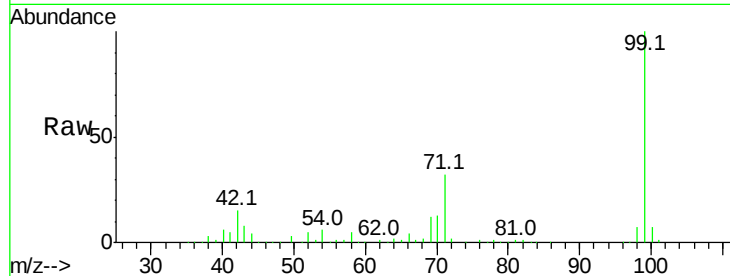
Tot Ion: 99 Resp: 755844

Ion Ratio Lower Upper

99 100

42 15.3 13.5 20.3

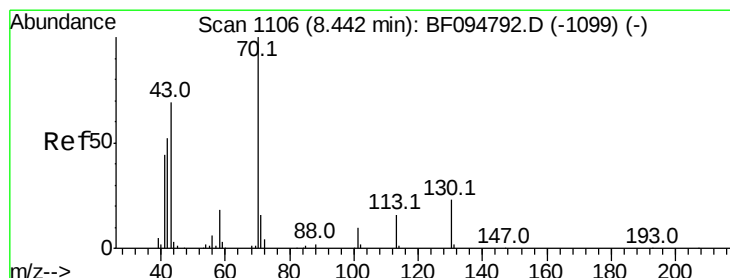
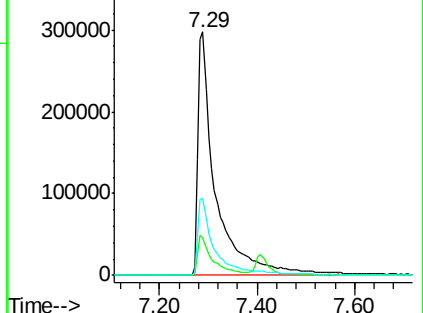
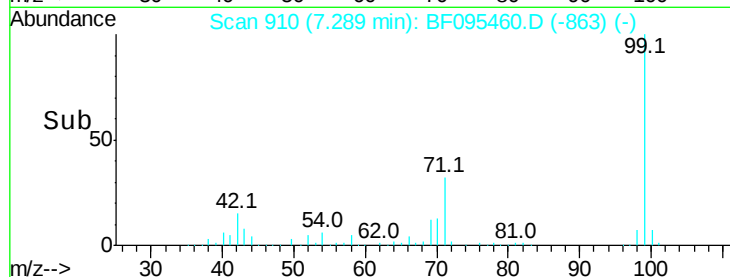
71 31.5 24.5 36.7



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



#19

n-Nitroso-di-n-propylamine

Concen: 10.23 ng

RT: 8.64 min Scan# 1140

Delta R.T. 0.16 min

Lab File: BF095460.D

Acq: 26 May 2017 14:46

Tgt Ion: 70 Resp: 49810

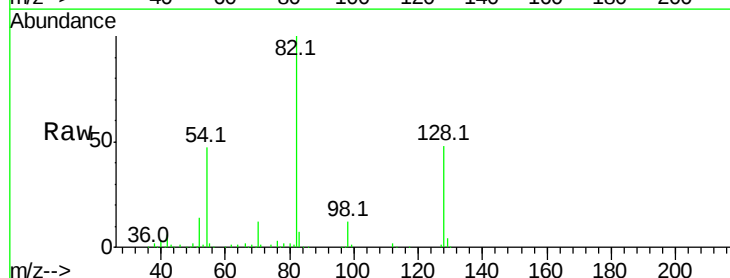
Ion Ratio Lower Upper

70 100

42 46.3 47.2 70.8#

101 0.0 7.2 10.8#

130 2.4 15.9 23.9#

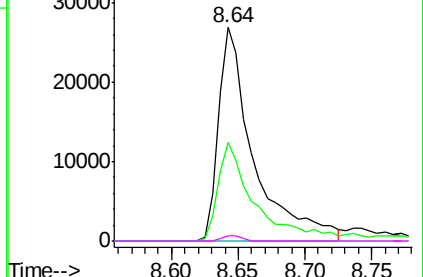
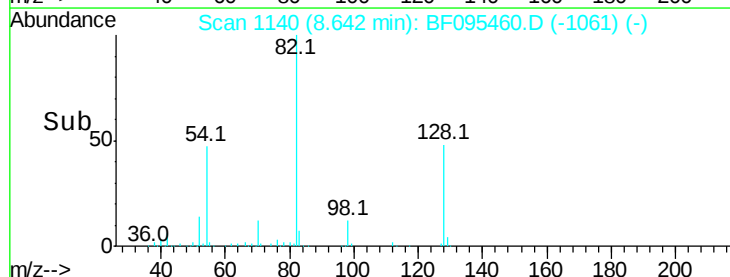


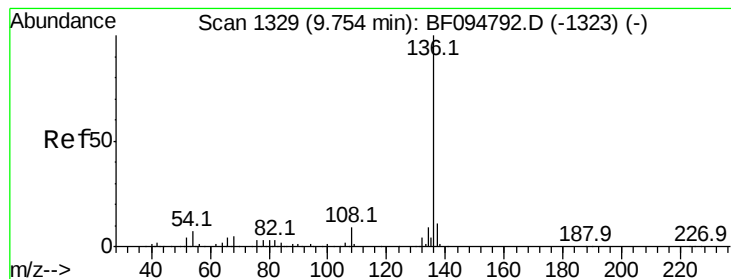
Abundance Ion 70.00 (69.70 to 70.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 101.00 (100.70 to 101.70): BF0

Ion 130.00 (129.70 to 130.70): BF0





#21

Naphthalene-d8

Concen: 20.00 ng

RT: 9.77 min Scan# 1331

Delta R.T. -0.02 min

Lab File: BF095460.D

Acq: 26 May 2017 14:46

Tot Ion:136 Resp: 406725

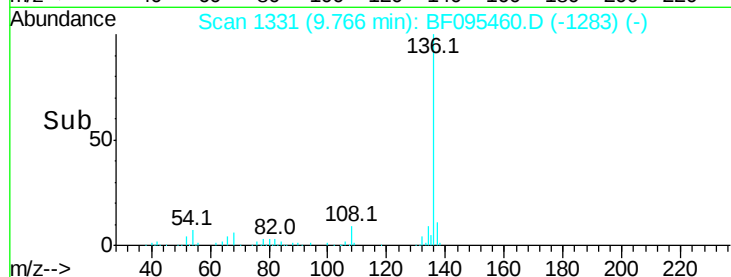
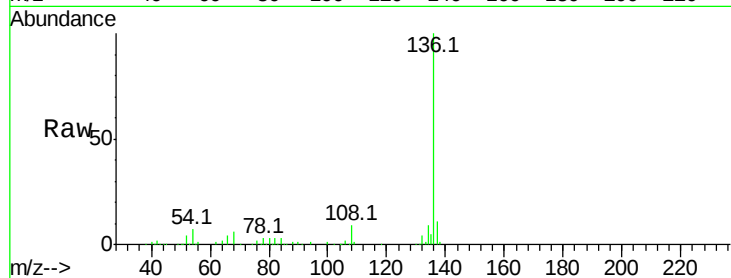
Ion Ratio Lower Upper

136 100

137 10.8 8.5 12.7

54 6.9 4.9 7.3

68 5.8 4.1 6.1

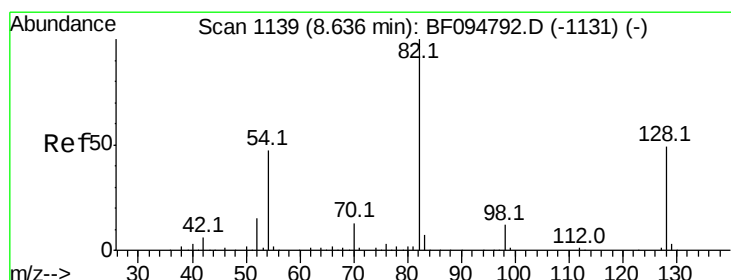
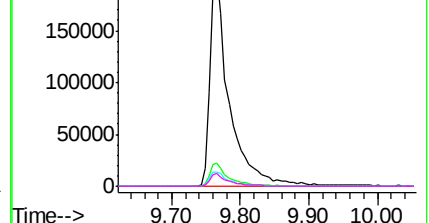


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF0

Ion 68.00 (67.70 to 68.70): BF0



#23

Nitrobenzene-d5

Concen: 67.46 ng

RT: 8.64 min Scan# 1140

Delta R.T. -0.03 min

Lab File: BF095460.D

Acq: 26 May 2017 14:46

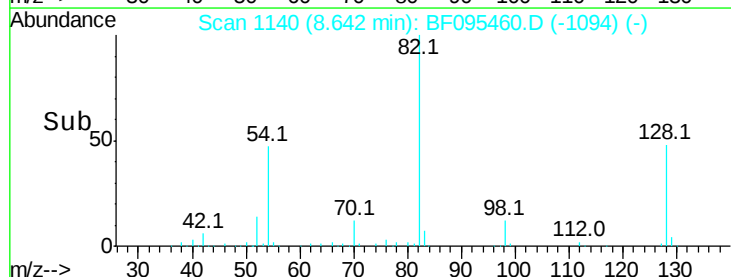
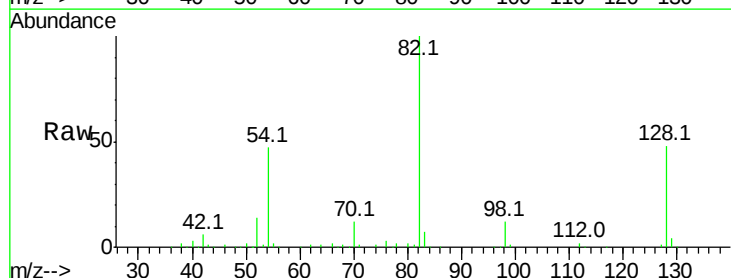
Tgt Ion: 82 Resp: 435101

Ion Ratio Lower Upper

82 100

128 48.0 34.0 51.0

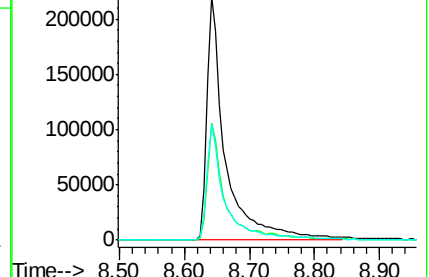
54 47.4 42.2 63.2

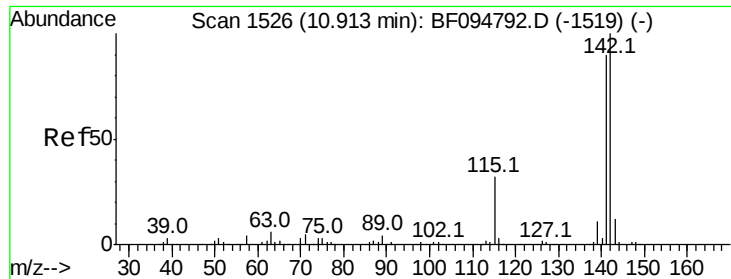


Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 128.00 (127.70 to 128.70): E

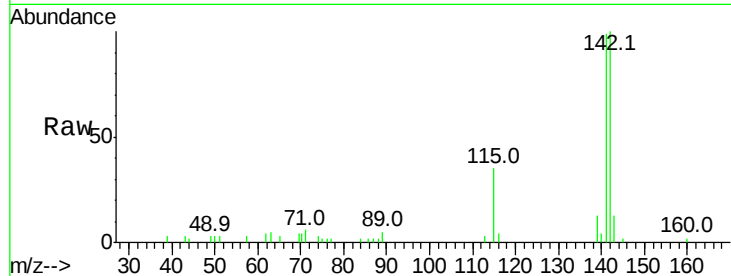
Ion 54.00 (53.70 to 54.70): BF0



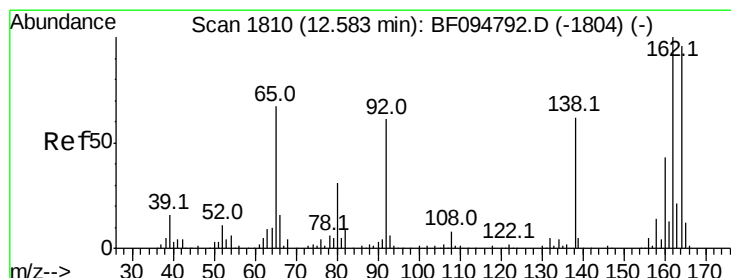
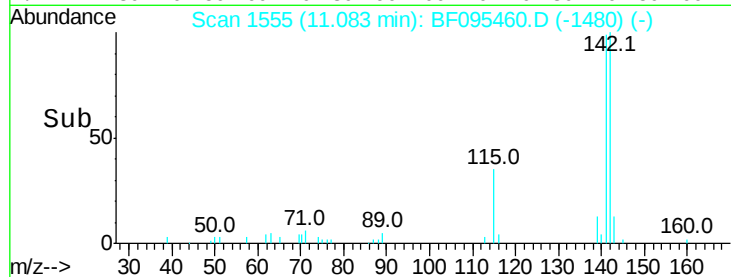
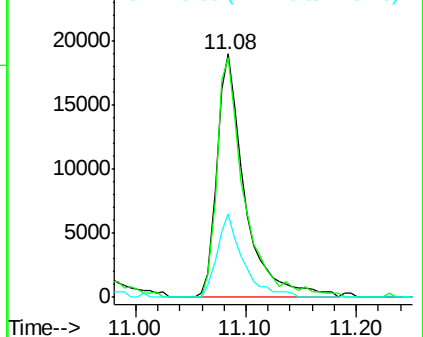


#37
2-Methylnaphthalene
Concen: 2.48 ng
RT: 11.08 min Scan# 1555
Delta R.T. 0.14 min
Lab File: BF095460.D
Acq: 26 May 2017 14:46

Tot Ion:142 Resp: 33237
Ion Ratio Lower Upper
142 100
141 98.7 71.3 106.9
115 34.6 27.1 40.7

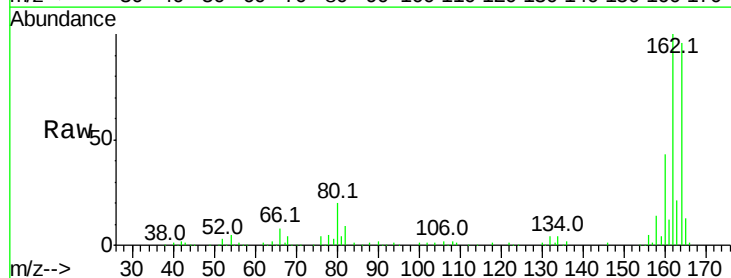


Abundance Ion 142.00 (141.70 to 142.70): E
Ion 141.00 (140.70 to 141.70): E
Ion 115.00 (114.70 to 115.70): E

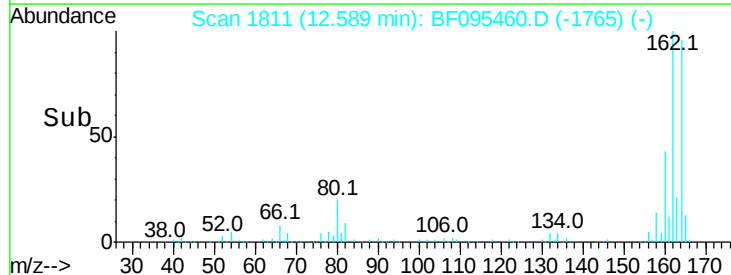
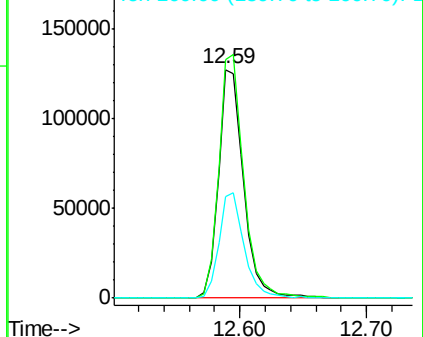


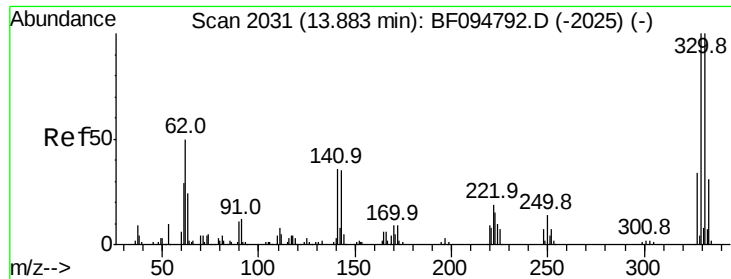
#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 12.59 min Scan# 1811
Delta R.T. -0.03 min
Lab File: BF095460.D
Acq: 26 May 2017 14:46

Tgt Ion:164 Resp: 174985
Ion Ratio Lower Upper
164 100
162 104.2 82.6 123.8
160 44.6 36.2 54.2



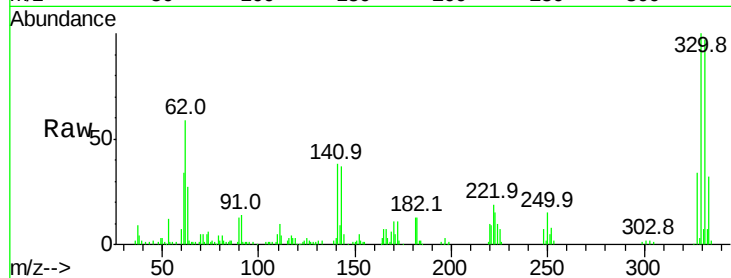
Abundance Ion 164.00 (163.70 to 164.70): E
Ion 162.00 (161.70 to 162.70): E
Ion 160.00 (159.70 to 160.70): E



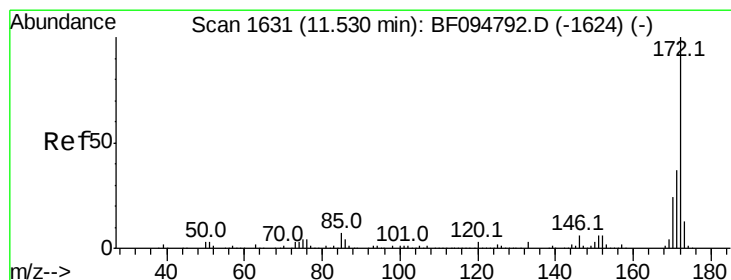
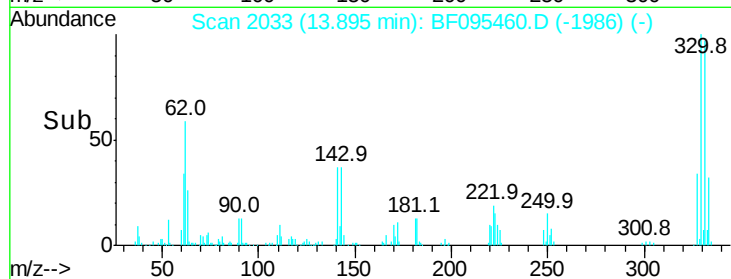
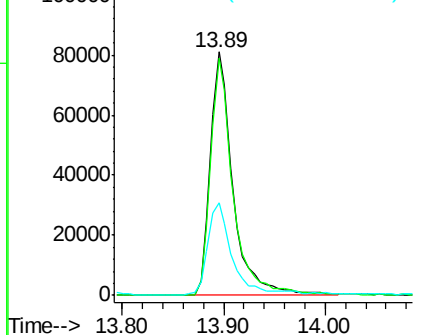


#41
 2,4,6-Tribromophenol
 Concen: 88.18 ng
 RT: 13.89 min Scan# 2033
 Delta R.T. -0.02 min
 Lab File: BF095460.D
 Acq: 26 May 2017 14:46

Tot Ion	Ratio	Lower	Upper
330	100		
332	97.4	76.6	115.0
141	41.9	31.4	47.2

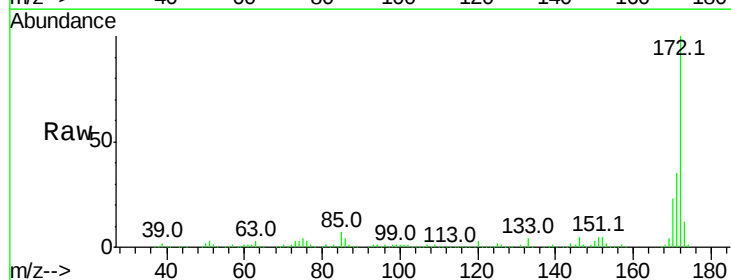


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

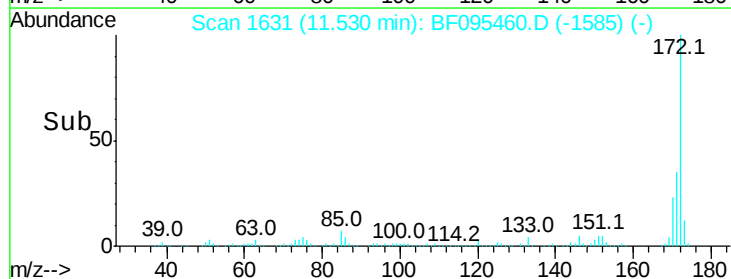
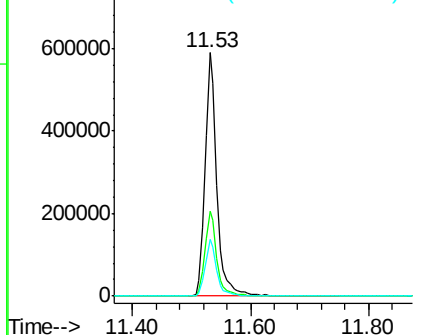


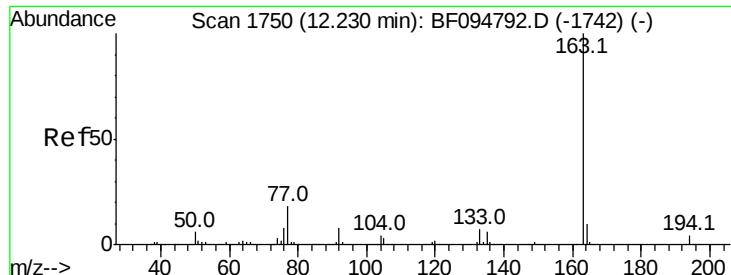
#44
 2-Fluorobiphenyl
 Concen: 67.22 ng
 RT: 11.53 min Scan# 1631
 Delta R.T. -0.03 min
 Lab File: BF095460.D
 Acq: 26 May 2017 14:46

Tgt Ion	Ratio	Lower	Upper
172	100		
171	34.6	29.6	44.4
170	23.1	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: 7.22 ng

RT: 12.23 min Scan# 1750

Delta R.T. -0.03 min

Lab File: BF095460.D

Acq: 26 May 2017 14:46

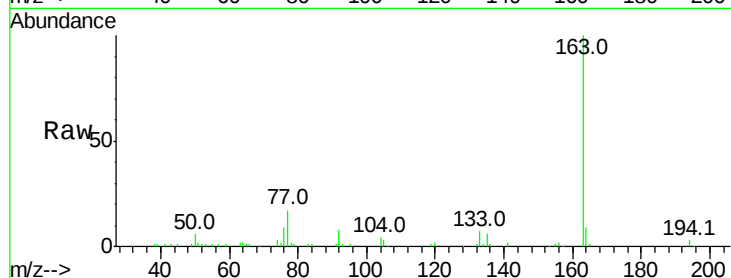
Tot Ion:163 Resp: 103655

Ion Ratio Lower Upper

163 100

194 3.3 2.6 4.0

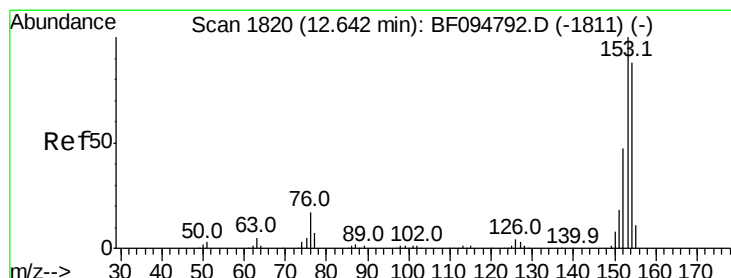
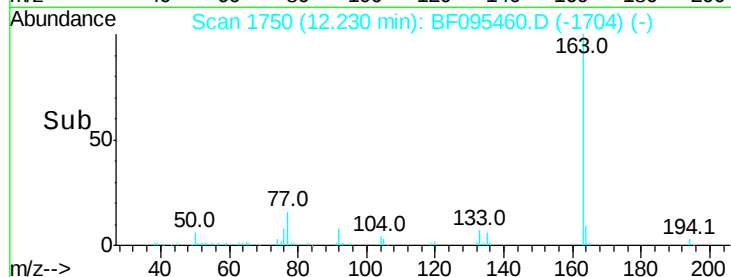
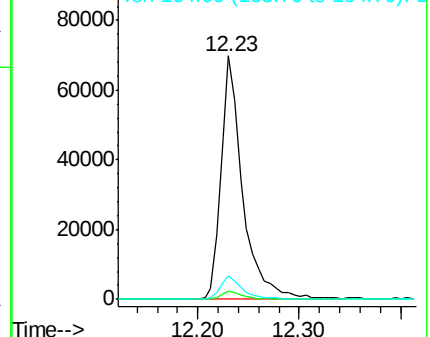
164 9.5 8.4 12.6



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: 6.73 ng

RT: 12.65 min Scan# 1821

Delta R.T. -0.02 min

Lab File: BF095460.D

Acq: 26 May 2017 14:46

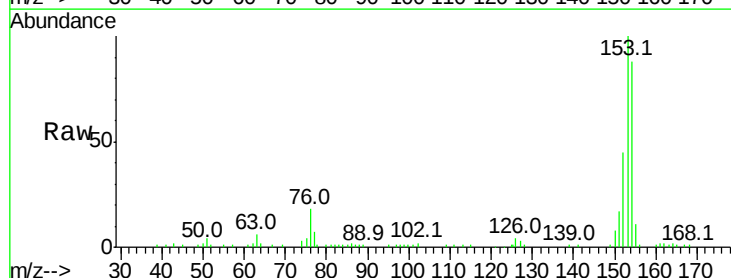
Tgt Ion:154 Resp: 74887

Ion Ratio Lower Upper

154 100

153 113.4 90.5 135.7

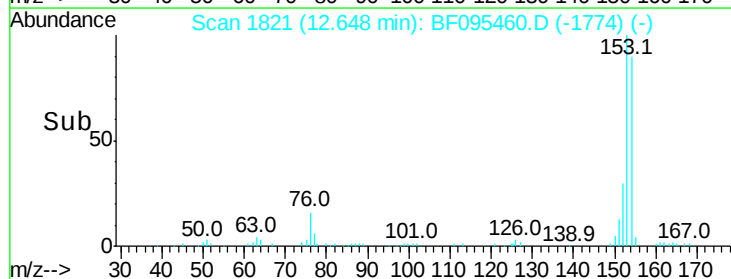
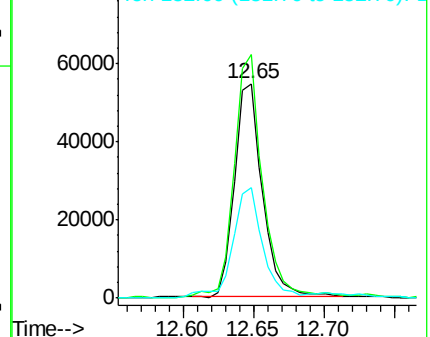
152 51.5 43.6 65.4

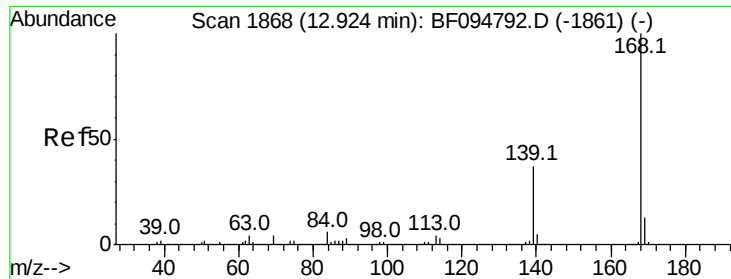


Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

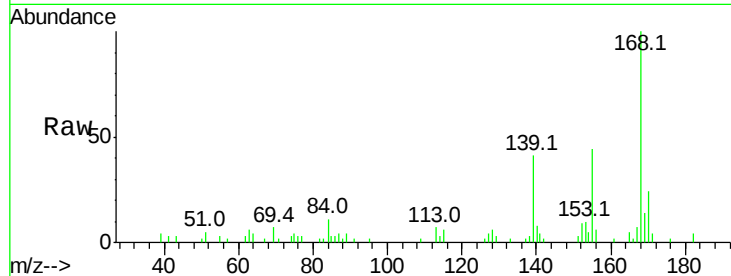
Ion 152.00 (151.70 to 152.70): E



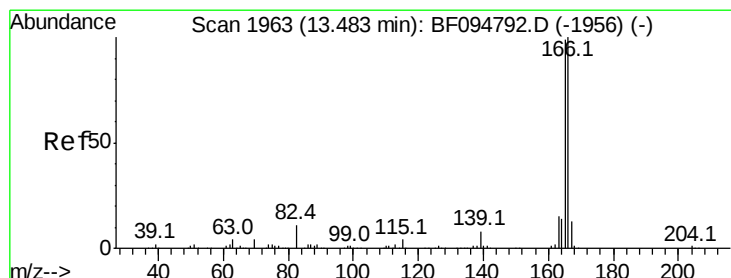
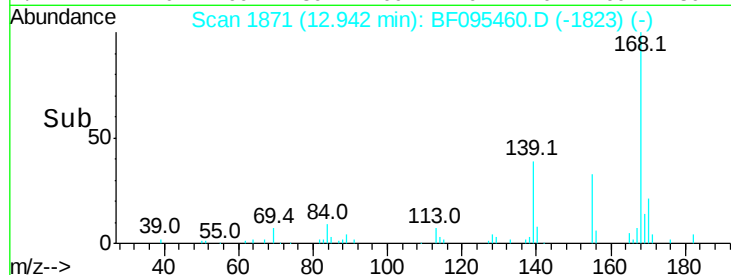
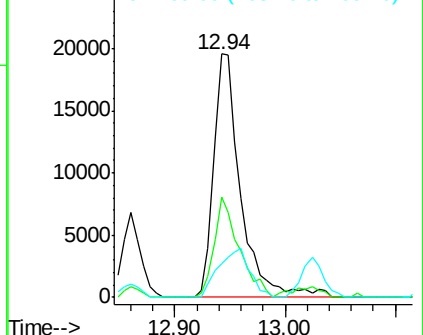


#54
Dibenzofuran
Concen: 2.15 ng
RT: 12.94 min Scan# 1871
Delta R.T. -0.02 min
Lab File: BF095460.D
Acq: 26 May 2017 14:46

Tot Ion	Ratio	Lower	Upper
168	100		
139	41.0	30.6	45.8
169	13.8	10.8	16.2

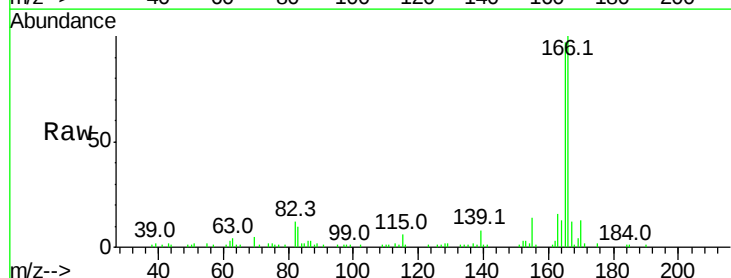


Abundance Ion 168.00 (167.70 to 168.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 169.00 (168.70 to 169.70): E

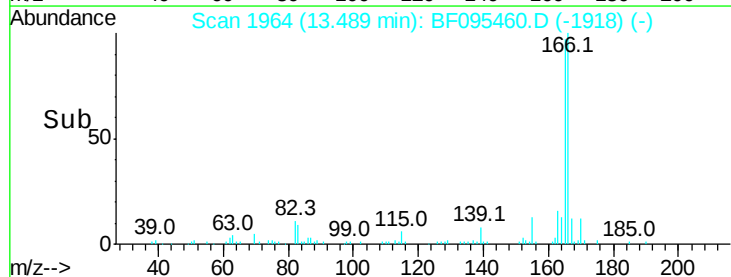
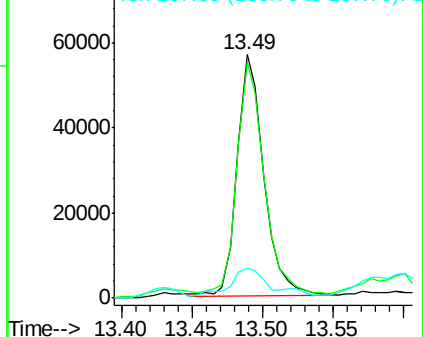


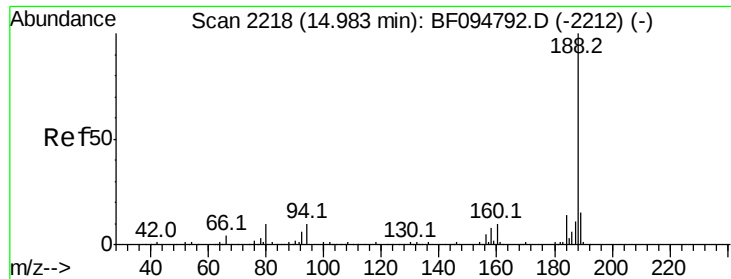
#57
Fluorene
Concen: 5.61 ng
RT: 13.49 min Scan# 1964
Delta R.T. -0.03 min
Lab File: BF095460.D
Acq: 26 May 2017 14:46

Tgt Ion	Ratio	Lower	Upper
166	100		
165	96.8	78.8	118.2
167	12.2	10.6	16.0



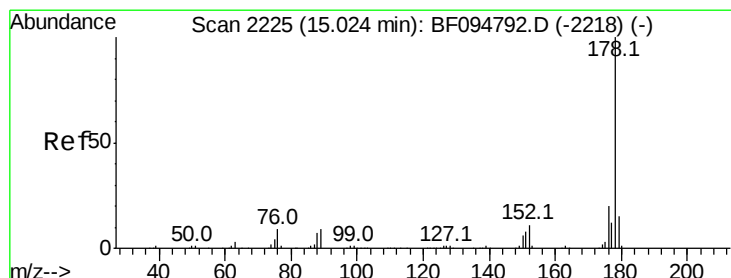
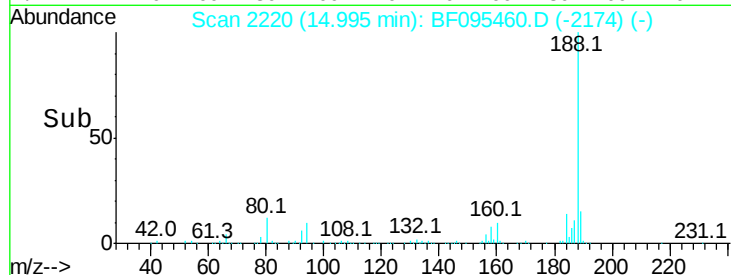
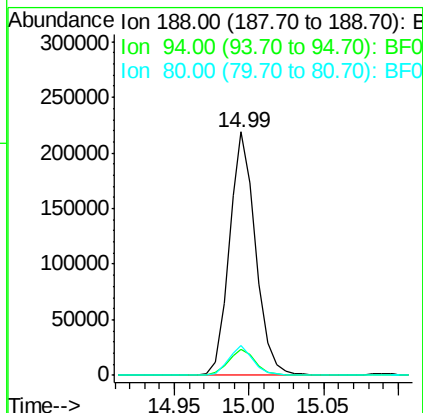
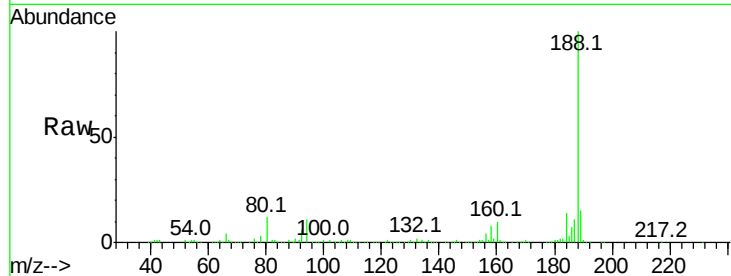
Abundance Ion 166.00 (165.70 to 166.70): E
Ion 165.00 (164.70 to 165.70): E
Ion 167.00 (166.70 to 167.70): E





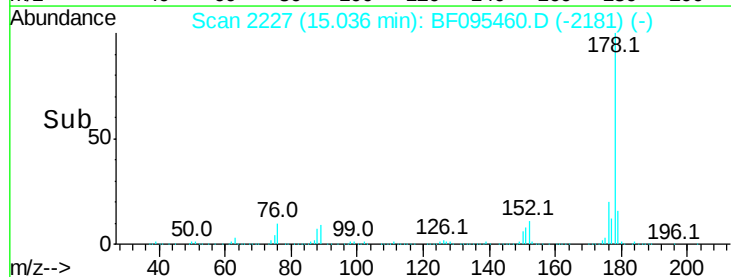
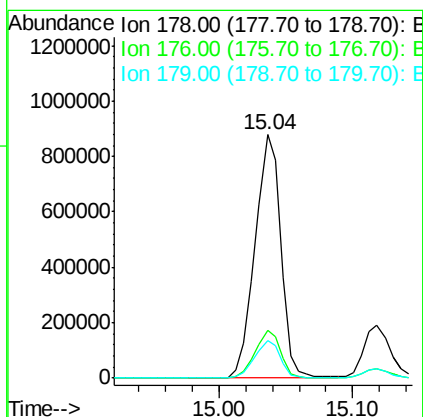
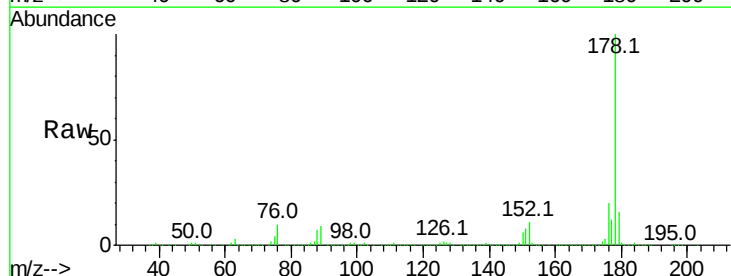
#63
 Phenanthrene-d10
 Concen: 20.00 ng
 RT: 14.99 min Scan# 2220
 Delta R.T. -0.03 min
 Lab File: BF095460.D
 Acq: 26 May 2017 14:46

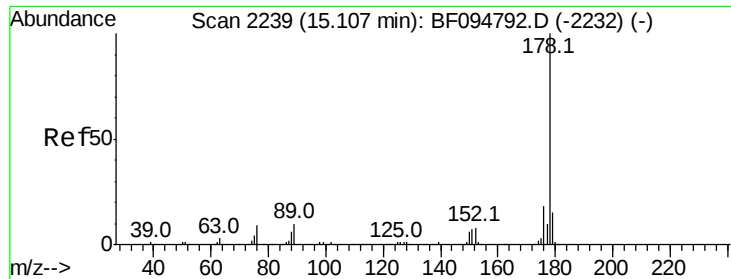
Tot Ion:188 Resp: 268229
 Ion Ratio Lower Upper
 188 100
 94 10.6 9.4 14.2
 80 12.2 10.2 15.2



#70
 Phenanthrene
 Concen: 75.62 ng
 RT: 15.04 min Scan# 2227
 Delta R.T. -0.03 min
 Lab File: BF095460.D
 Acq: 26 May 2017 14:46

Tgt Ion:178 Resp: 1165463
 Ion Ratio Lower Upper
 178 100
 176 19.7 16.2 24.4
 179 15.5 12.6 19.0





#71

Anthracene

Concen: 16.56 ng

RT: 15.12 min Scan# 2241

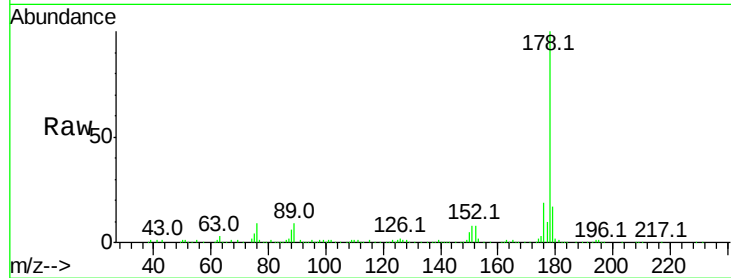
Delta R.T. -0.02 min

Lab File: BF095460.D

Acq: 26 May 2017 14:46

Tot Ion:178 Resp: 260725

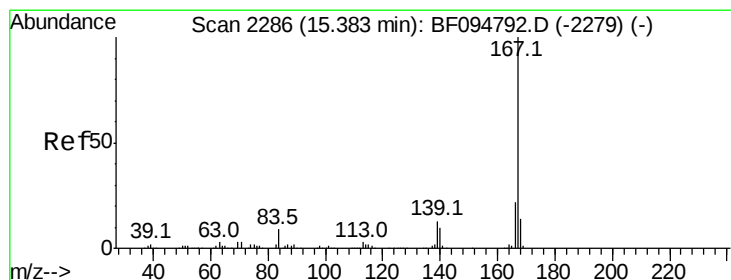
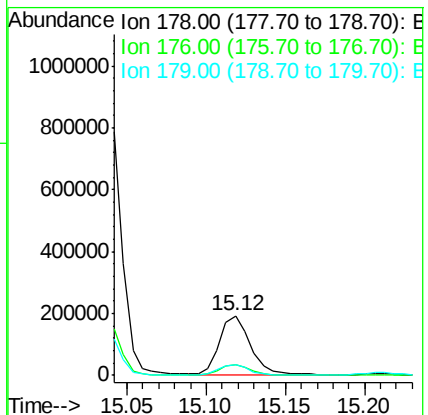
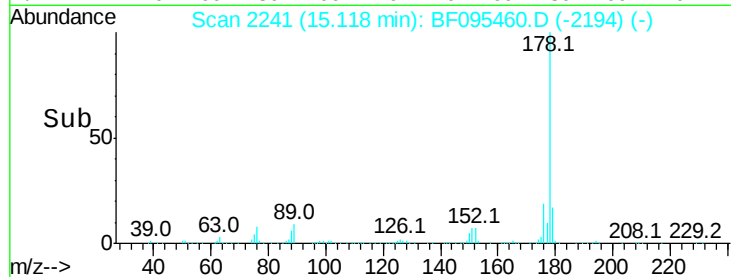
Ion	Ratio	Lower	Upper
178	100		
176	18.7	15.8	23.8
179	17.2	12.7	19.1



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: 2.49 ng

RT: 15.41 min Scan# 2291

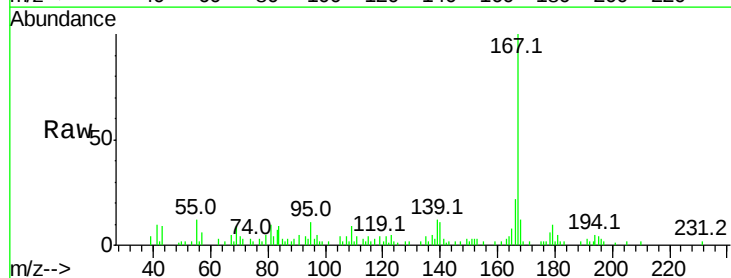
Delta R.T. -0.01 min

Lab File: BF095460.D

Acq: 26 May 2017 14:46

Tgt Ion:167 Resp: 35720

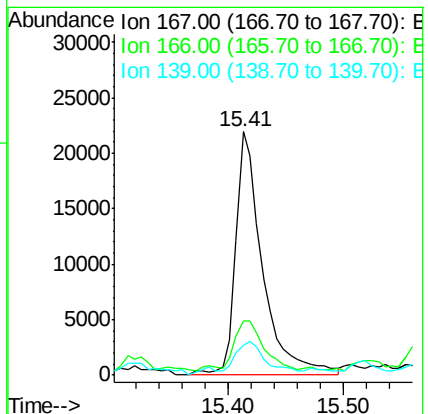
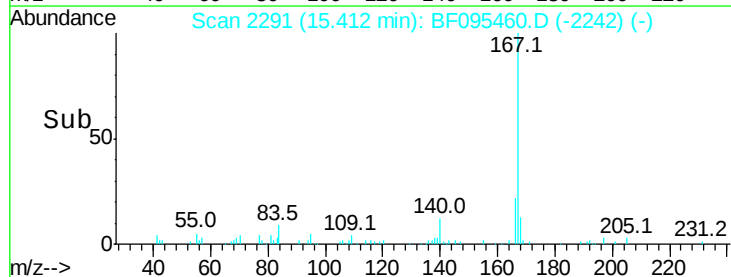
Ion	Ratio	Lower	Upper
167	100		
166	22.5	18.1	27.1
139	12.3	11.7	17.5

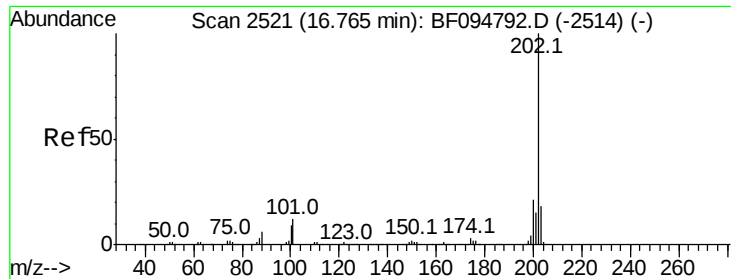


Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E





#74

Fluoranthene

Concen: 61.44 ng

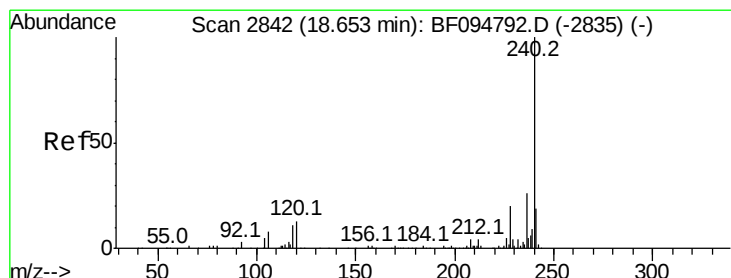
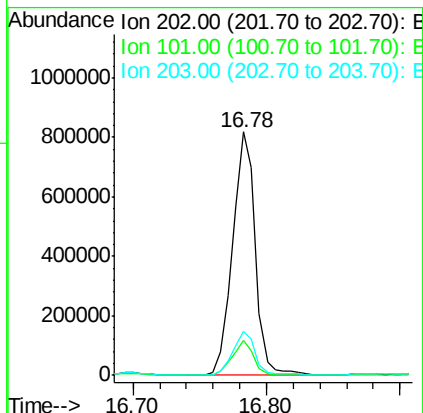
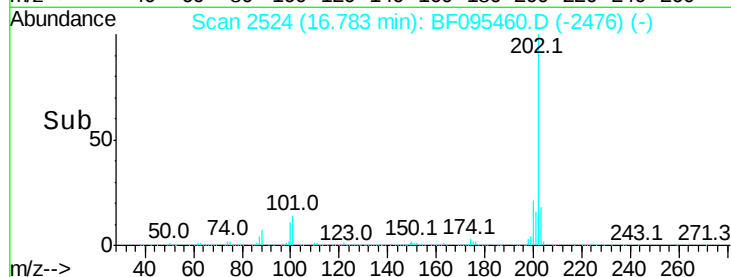
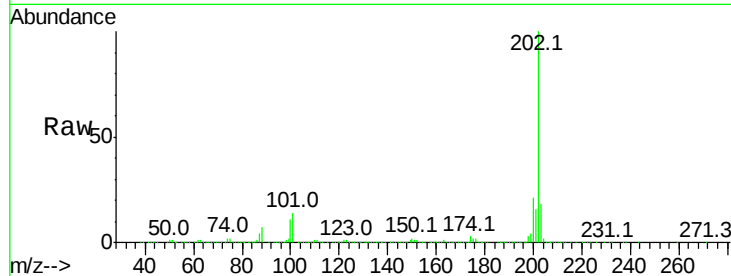
RT: 16.78 min Scan# 2524

Delta R.T. -0.02 min

Lab File: BF095460.D

Acq: 26 May 2017 14:46

Tot Ion:	202	Resp:	971315
Ion	Ratio	Lower	Upper
202	100		
101	14.3	0.0	33.2
203	17.9	0.0	38.1



#75

Chrysene-d12

Concen: 20.00 ng

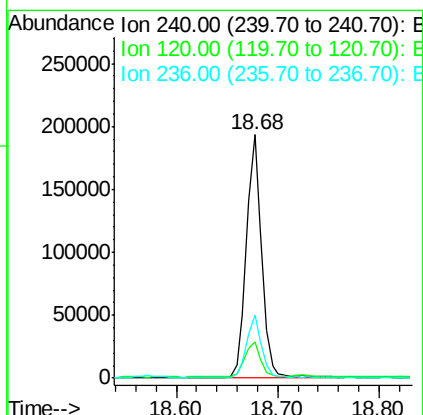
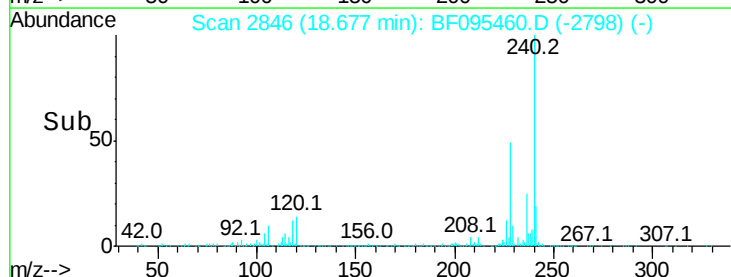
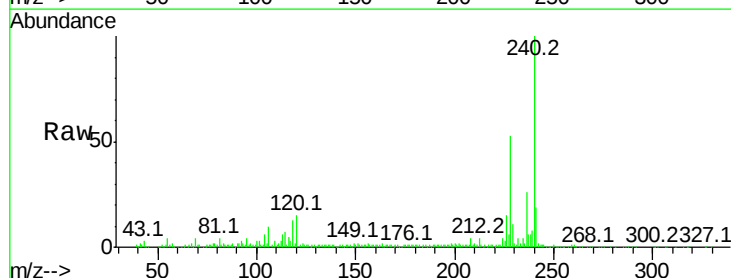
RT: 18.68 min Scan# 2846

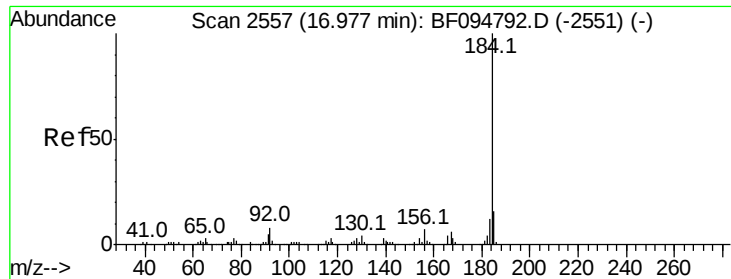
Delta R.T. -0.02 min

Lab File: BF095460.D

Acq: 26 May 2017 14:46

Tgt Ion:	240	Resp:	203006
Ion	Ratio	Lower	Upper
240	100		
120	14.7	5.8	8.8#
236	25.8	20.5	30.7





#76

Benzidine

Concen: 6.63 ng

RT: 16.99 min Scan# 2560

Delta R.T. -0.02 min

Lab File: BF095460.D

Acq: 26 May 2017 14:46

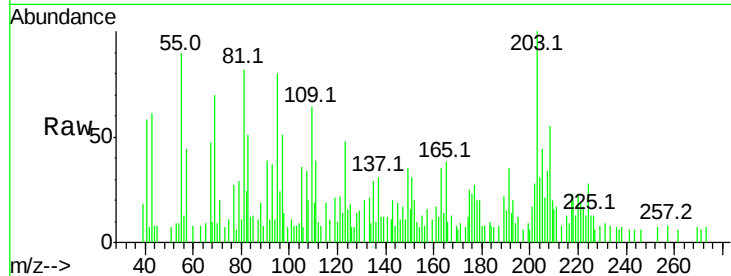
Tot Ion:184 Resp: 288

Ion Ratio Lower Upper

184 100

185 86.8 15.5 23.3#

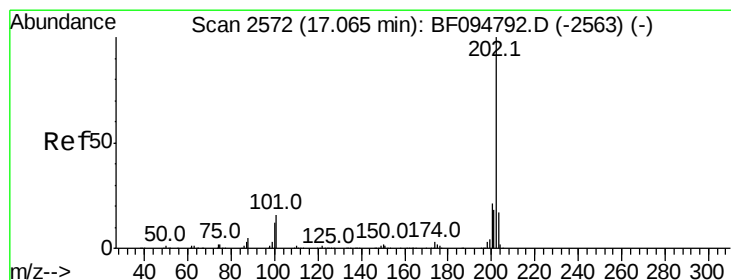
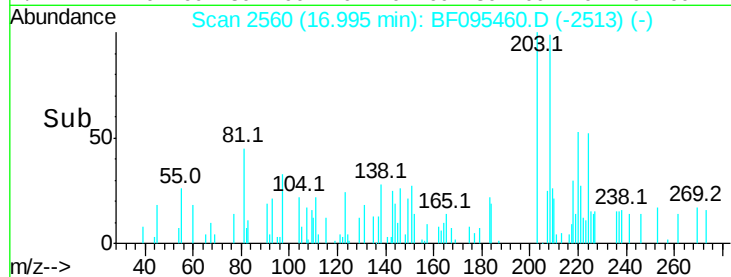
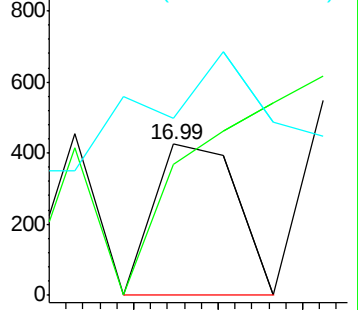
183 117.4 9.8 14.6#



Abundance Ion 184.00 (183.70 to 184.70): E

Ion 185.00 (184.70 to 185.70): E

Ion 183.00 (182.70 to 183.70): E



#77

Pyrene

Concen: 72.33 ng

RT: 17.09 min Scan# 2576

Delta R.T. -0.02 min

Lab File: BF095460.D

Acq: 26 May 2017 14:46

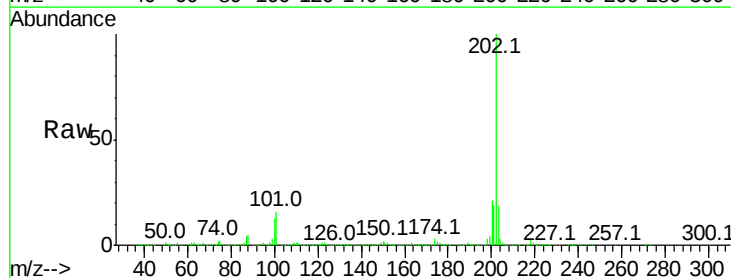
Tgt Ion:202 Resp: 1098212

Ion Ratio Lower Upper

202 100

200 21.4 17.6 26.4

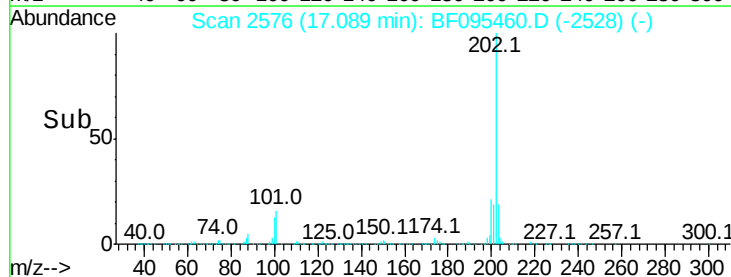
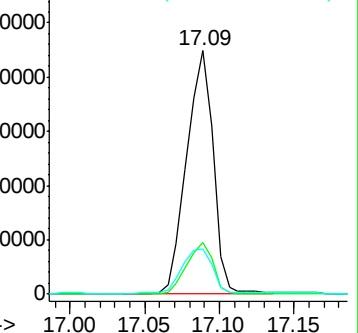
203 18.7 14.4 21.6

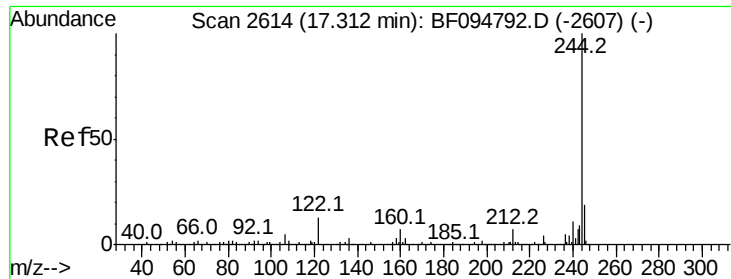


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 50.33 ng

RT: 17.32 min Scan# 2615

Delta R.T. -0.03 min

Lab File: BF095460.D

Acq: 26 May 2017 14:46

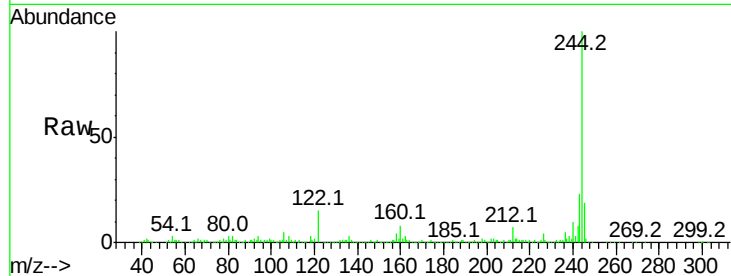
Tot Ion:244 Resp: 463837

Ion Ratio Lower Upper

244 100

212 7.1 6.0 9.0

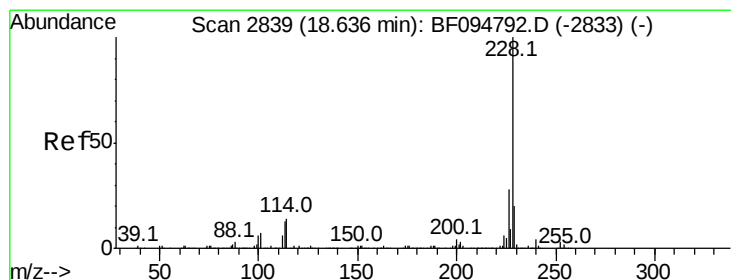
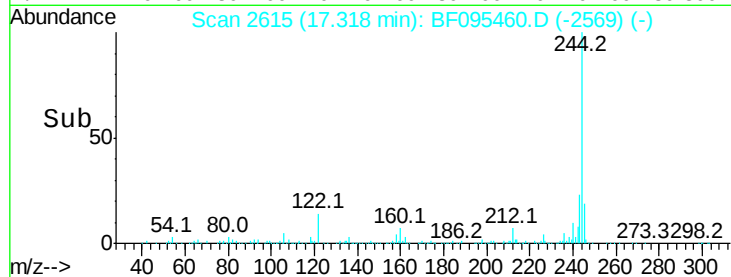
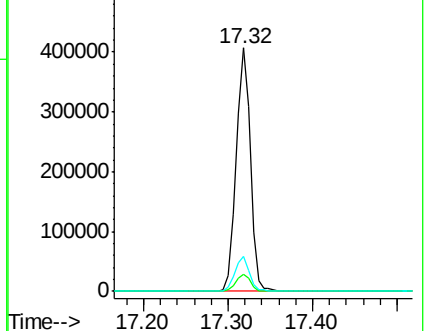
122 14.6 10.3 15.5



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: 37.79 ng

RT: 18.67 min Scan# 2844

Delta R.T. -0.02 min

Lab File: BF095460.D

Acq: 26 May 2017 14:46

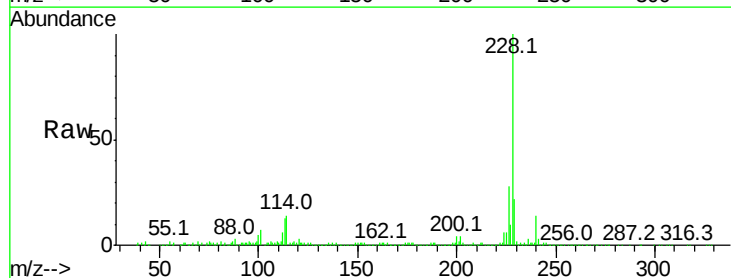
Tgt Ion:228 Resp: 446535

Ion Ratio Lower Upper

228 100

226 28.2 22.6 33.8

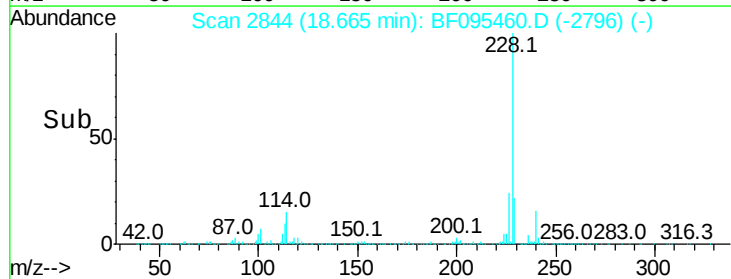
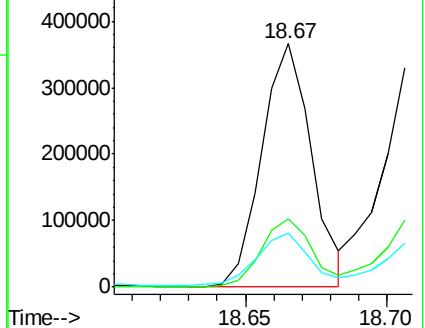
229 22.1 16.3 24.5

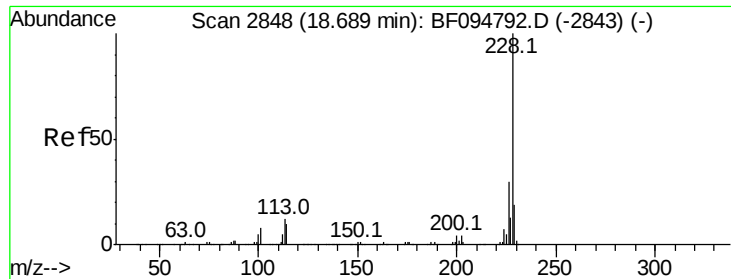


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

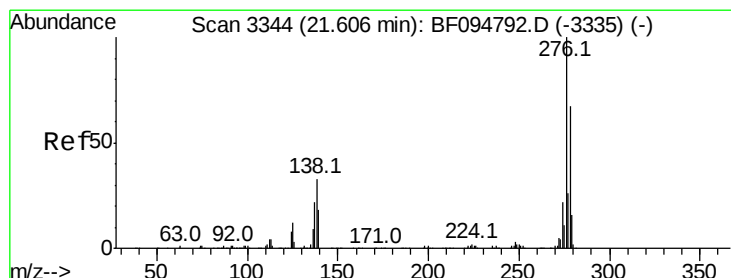
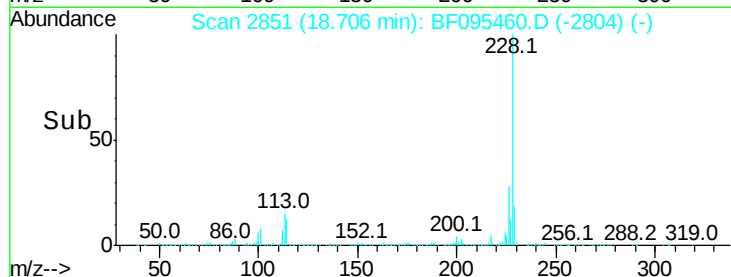
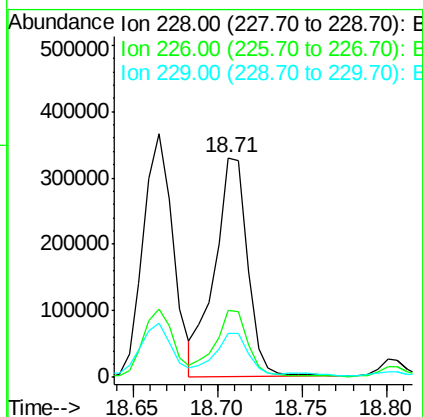
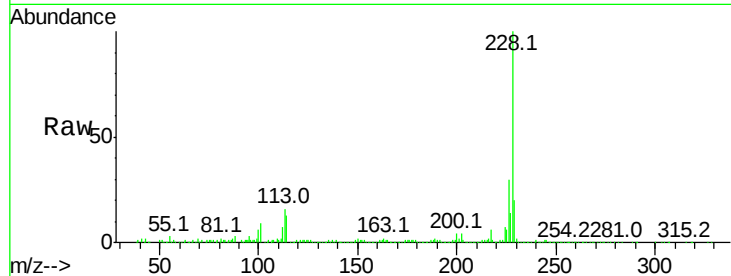
Ion 229.00 (228.70 to 229.70): E





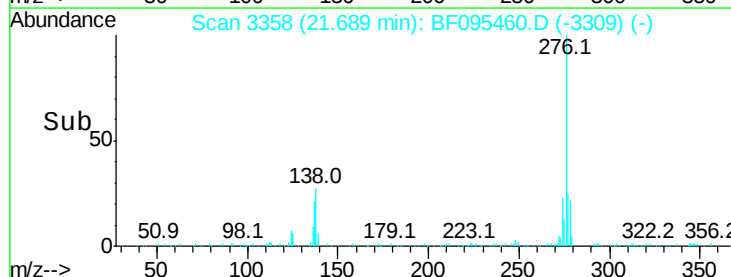
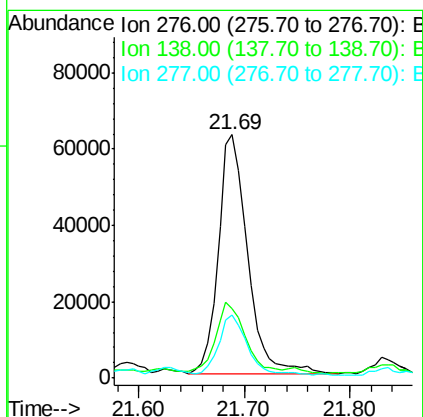
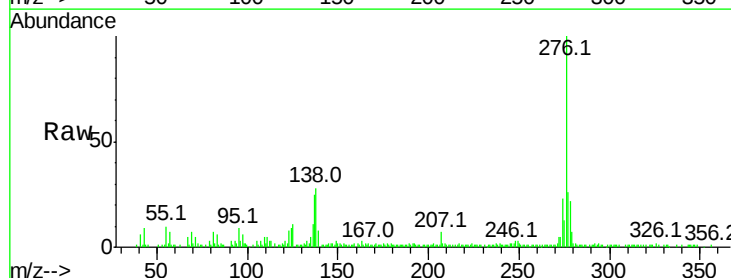
#82
Chrysene
Concen: 39.19 ng
RT: 18.71 min Scan# 2851
Delta R.T. -0.02 min
Lab File: BF095460.D
Acq: 26 May 2017 14:46

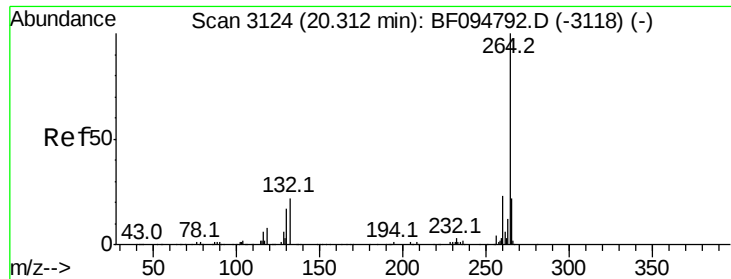
Tot Ion	Ratio	Lower	Upper
228	100		
226	30.3	24.9	37.3
229	20.2	15.8	23.6



#85
Indeno(1,2,3-cd)pyrene
Concen: 13.15 ng
RT: 21.69 min Scan# 3358
Delta R.T. -0.01 min
Lab File: BF095460.D
Acq: 26 May 2017 14:46

Tgt Ion	Ratio	Lower	Upper
276	100		
138	28.0	27.8	41.6
277	24.4	20.2	30.4





#86

Pervlene-d12

Concen: 20.00 ng

RT: 20.35 min Scan# 3131

Delta R.T. -0.01 min

Lab File: BF095460.D

Acq: 26 May 2017 14:46

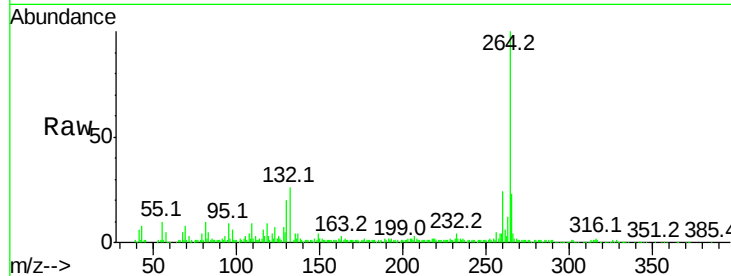
Tot Ion:264 Resp: 168118

Ion Ratio Lower Upper

264 100

260 23.8 19.5 29.3

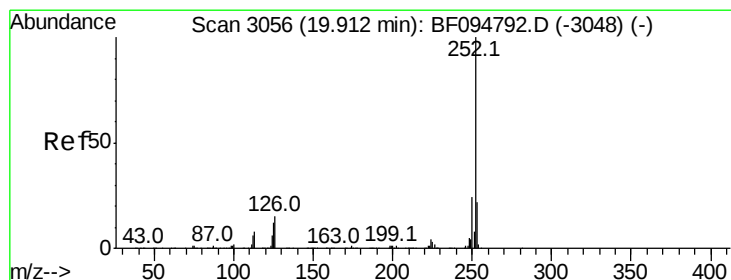
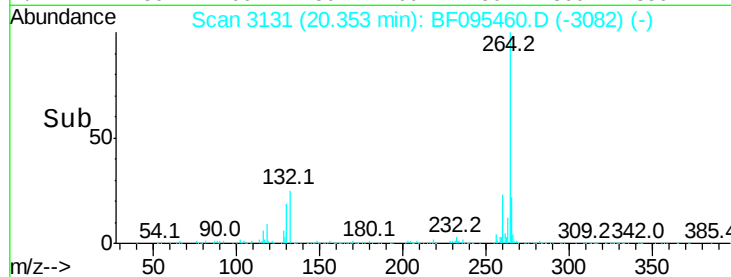
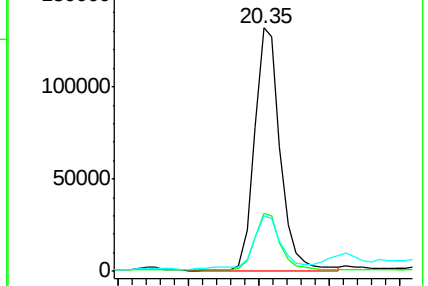
265 22.7 17.2 25.8



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: 46.50 ng

RT: 19.95 min Scan# 3062

Delta R.T. -0.01 min

Lab File: BF095460.D

Acq: 26 May 2017 14:46

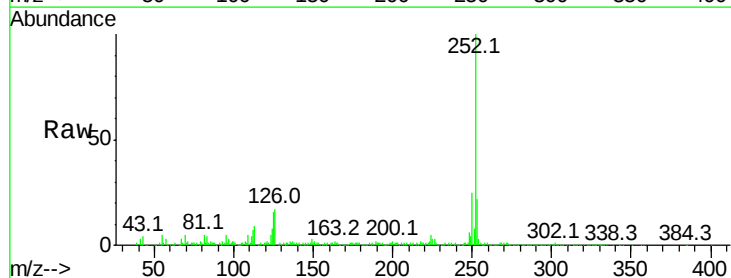
Tgt Ion:252 Resp: 483035

Ion Ratio Lower Upper

252 100

253 22.4 18.1 27.1

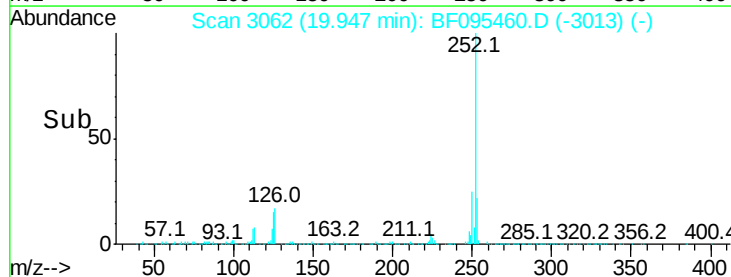
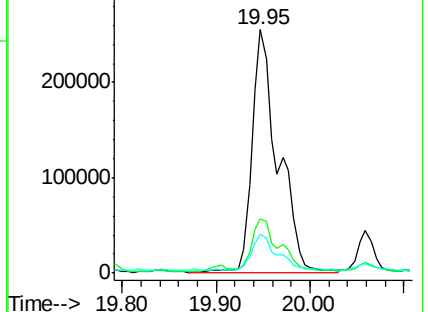
125 15.9 9.8 14.8#

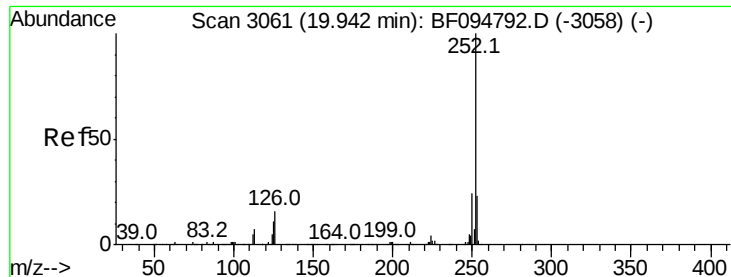


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

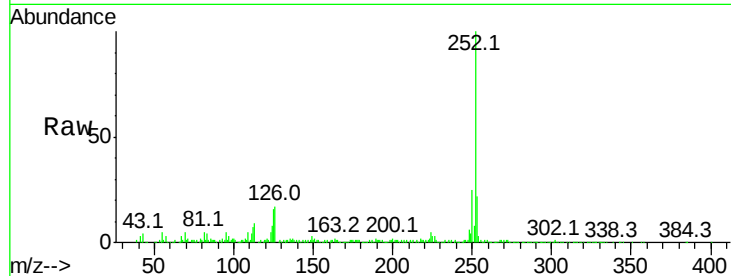
Ion 125.00 (124.70 to 125.70): E



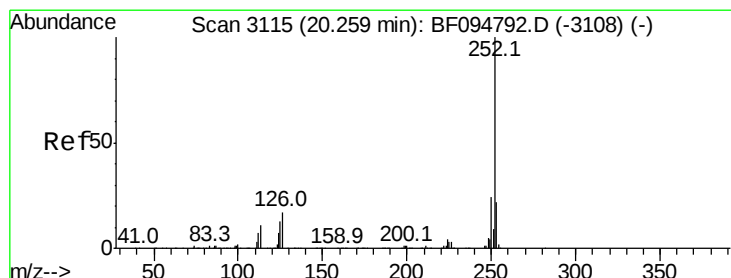
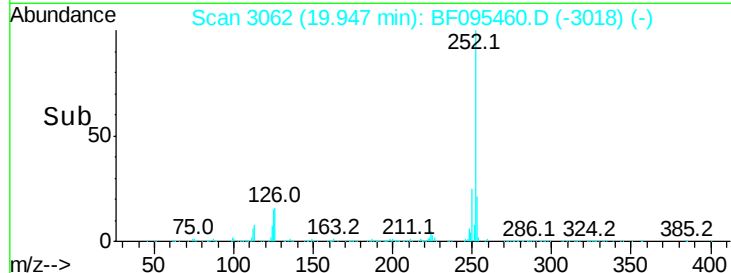
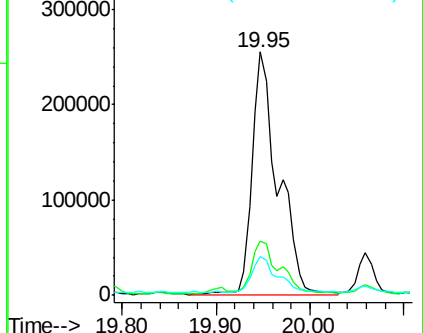


#88
Benzo(k)fluoranthene
Concen: 48.20 ng
RT: 19.95 min Scan# 3062
Delta R.T. -0.04 min
Lab File: BF095460.D
Acq: 26 May 2017 14:46

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.4	18.4	27.6
125	15.9	13.1	19.7

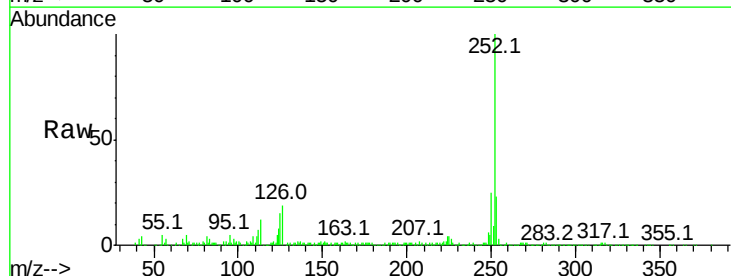


Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E

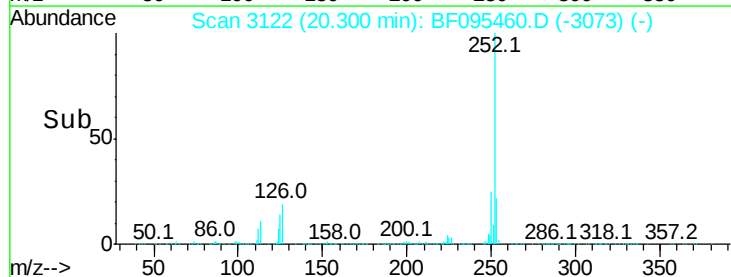
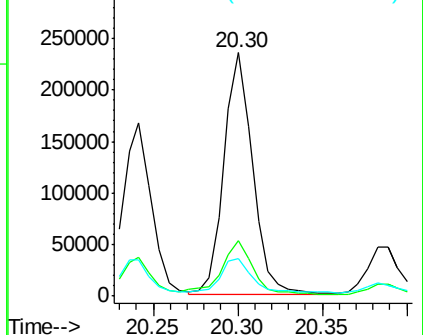


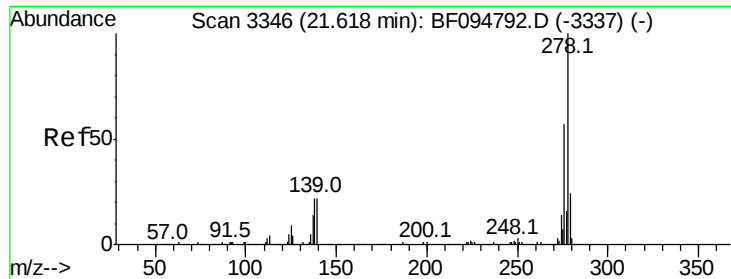
#89
Benzo(a)pyrene
Concen: 29.04 ng
RT: 20.30 min Scan# 3122
Delta R.T. -0.01 min
Lab File: BF095460.D
Acq: 26 May 2017 14:46

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.8	17.5	26.3
125	15.5	11.0	16.4



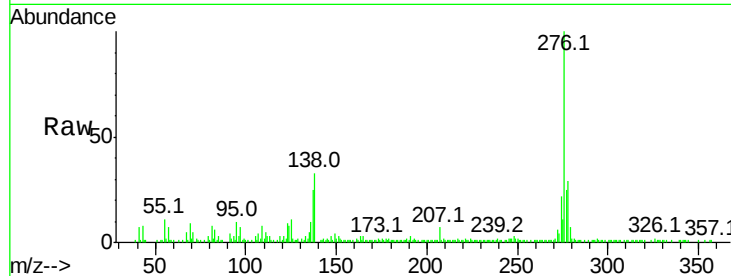
Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E



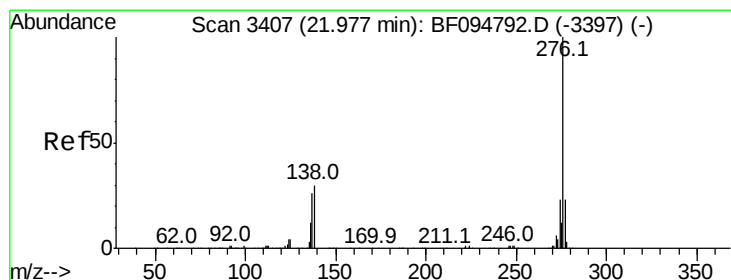
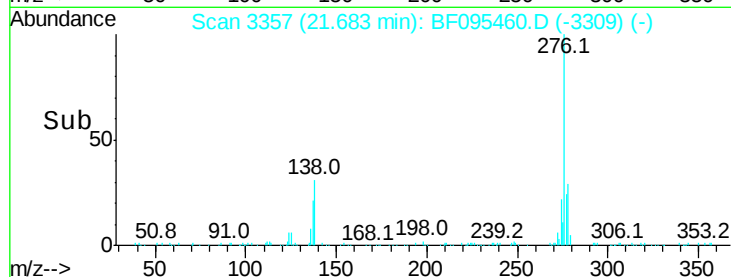
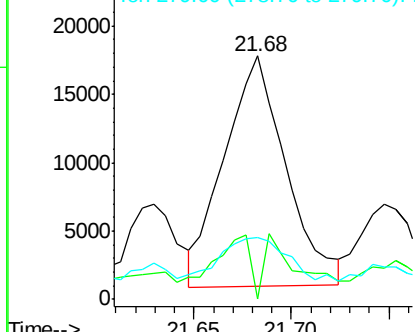


#90
Dibenzo(a,h)anthracene
Concen: 4.67 ng
RT: 21.68 min Scan# 3357
Delta R.T. -0.02 min
Lab File: BF095460.D
Acq: 26 May 2017 14:46

Tot Ion: 278 Resp: 36994
Ion Ratio Lower Upper
278 100
139 0.0 16.6 24.8#
279 25.5 19.3 28.9

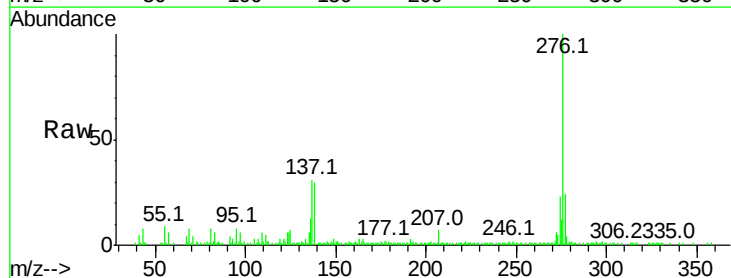


Abundance Ion 278.00 (277.70 to 278.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 279.00 (278.70 to 279.70): E



#91
Benzo(g,h,i)perylene
Concen: 15.86 ng
RT: 22.08 min Scan# 3424
Delta R.T. -0.01 min
Lab File: BF095460.D
Acq: 26 May 2017 14:46

Tgt Ion: 276 Resp: 123205
Ion Ratio Lower Upper
276 100
277 24.0 18.6 28.0
138 29.7 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

