

Data Path : Z:\HPCHEM1\BNA F\DATA\BF052617\
 Data File : BF095458.D
 Acq On : 26 May 2017 13:41
 Operator : SJ/MA
 Sample : I3240-05
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

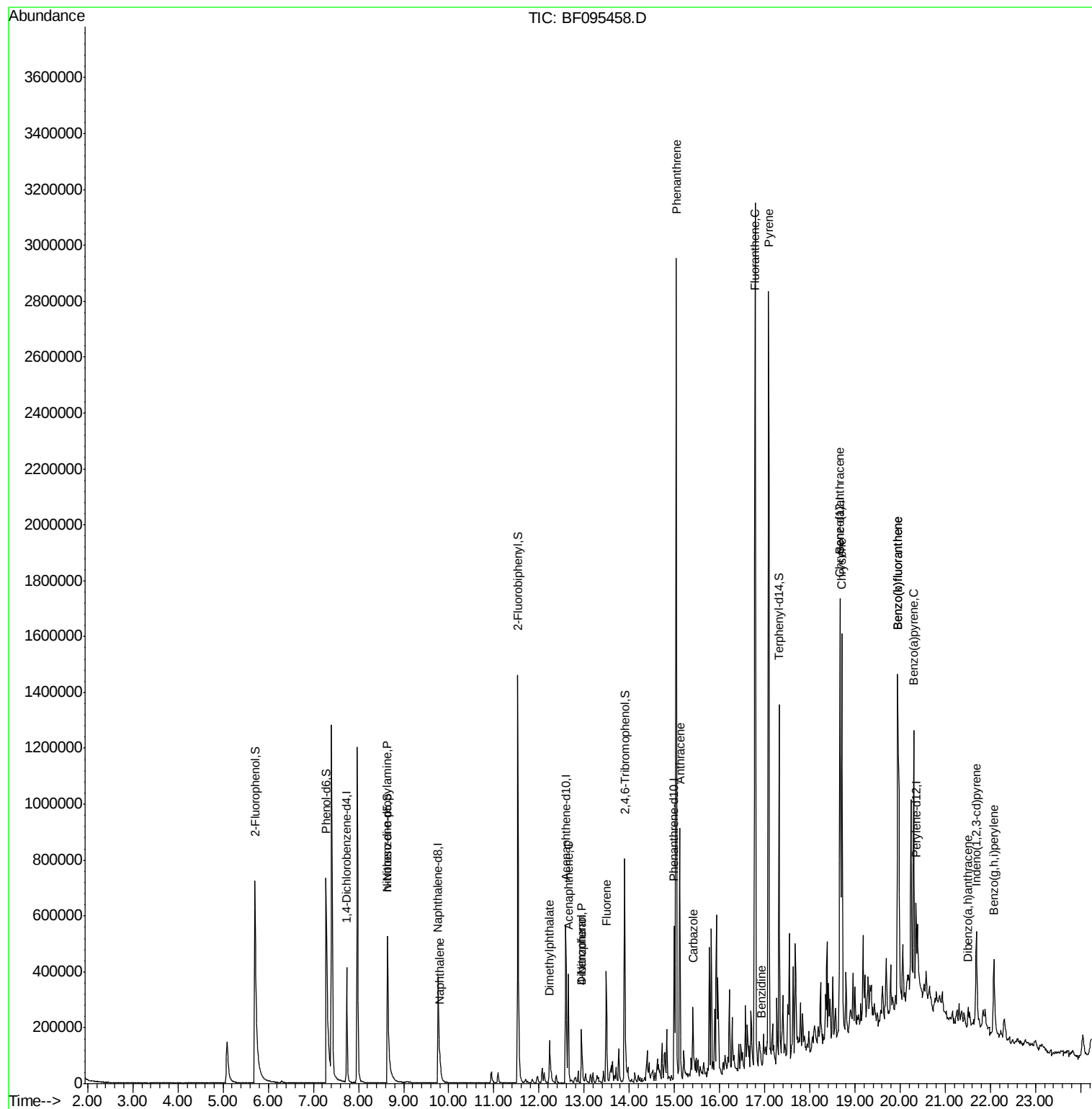
Quant Time: May 26 16:41:35 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF050217.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu May 18 17:07:53 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.74	152	98798	20.00	ng	-0.02
21) Naphthalene-d8	9.77	136	396720	20.00	ng	-0.02
38) Acenaphthene-d10	12.59	164	177595	20.00	ng	-0.03
63) Phenanthrene-d10	14.99	188	270517	20.00	ng	-0.03
75) Chrysene-d12	18.68	240	199254	20.00	ng	-0.02
86) Perylene-d12	20.35	264	174512	20.00	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.71	112	617727	104.24	ng	-0.03
7) Phenol-d6	7.29	99	735019	103.38	ng	-0.02
23) Nitrobenzene-d5	8.64	82	430592	68.44	ng	-0.03
41) 2,4,6-Tribromophenol	13.89	330	132293	90.96	ng	-0.02
44) 2-Fluorobiphenyl	11.53	172	767727	62.22	ng	-0.03
78) Terphenyl-d14	17.32	244	474850	52.49	ng	-0.03
Target Compounds						Qvalue
19) n-Nitroso-di-n-propylamine	8.64	70	48566	10.10	ng	# 74
31) Naphthalene	9.80	128	52806	2.65	ng	98
49) Dimethylphthalate	12.24	163	120045	8.23	ng	99
51) Acenaphthene	12.65	154	134032	11.87	ng	98
54) Dibenzofuran	12.94	168	129727	8.30	ng	96
55) 4-Nitrophenol	12.94	139	47555	24.80	ng	# 28
57) Fluorene	13.49	166	165879	12.20	ng	95
70) Phenanthrene	15.04	178	1686235	108.49	ng	99
71) Anthracene	15.12	178	510240	32.14	ng	96
72) Carbazole	15.41	167	173074	11.98	ng	95
74) Fluoranthene	16.79	202	1790996	112.33	ng	98
76) Benzidine	16.94	184	121	6.61	ng	# 62
77) Pvrene	17.09	202	1438868	96.56	ng	97
80) Benzo(a)anthracene	18.67	228	783666	67.58	ng	97
82) Chrysene	18.71	228	653285	58.26	ng	97
85) Indeno(1,2,3-cd)pyrene	21.69	276	260656	28.62	ng	96
87) Benzo(b)fluoranthene	19.95	252	1050981	97.46	ng	# 96
88) Benzo(k)fluoranthene	19.95	252	1050981	101.04	ng	100
89) Benzo(a)pvrene	20.30	252	534349	53.70	ng	95
90) Dibenzo(a,h)anthracene	21.51	278	48350	5.88	ng	93
91) Benzo(g,h,i)perylene	22.08	276	236484	29.32	ng	98

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

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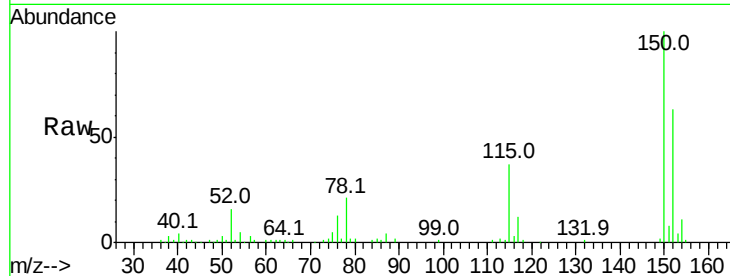




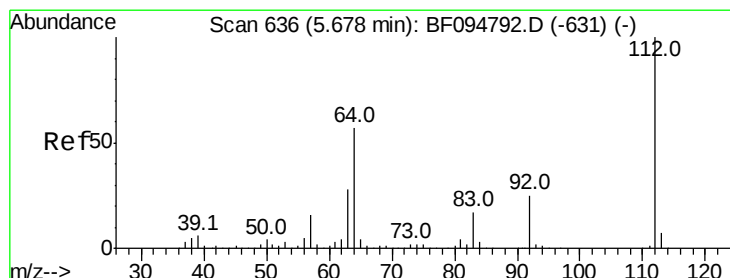
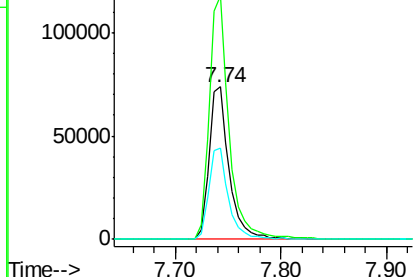
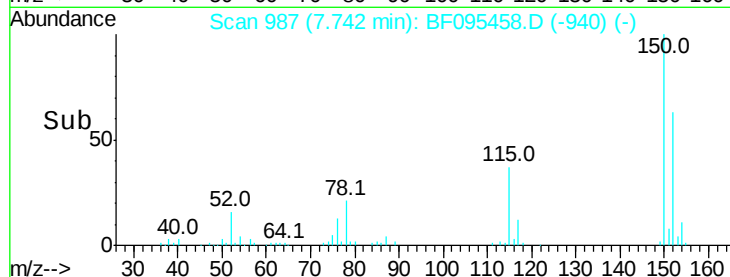
#1

1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 7.74 min Scan# 987
Delta R.T. -0.02 min
Lab File: BF095458.D
Acq: 26 May 2017 13:41

Tot Ion	Ratio	Lower	Upper
152	100		
150	159.9	126.2	189.2
115	59.9	52.2	78.2



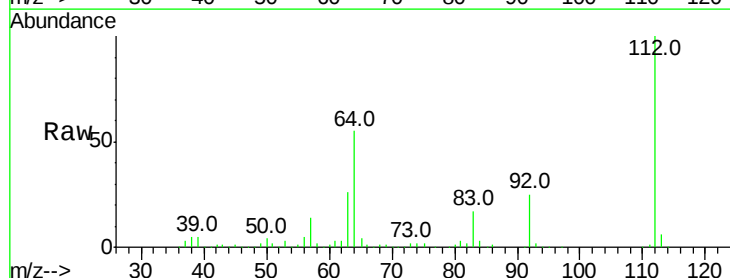
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



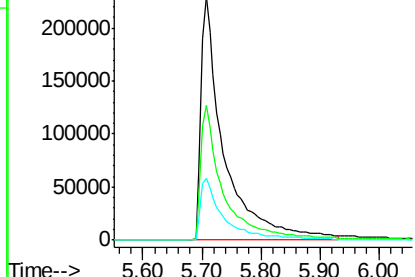
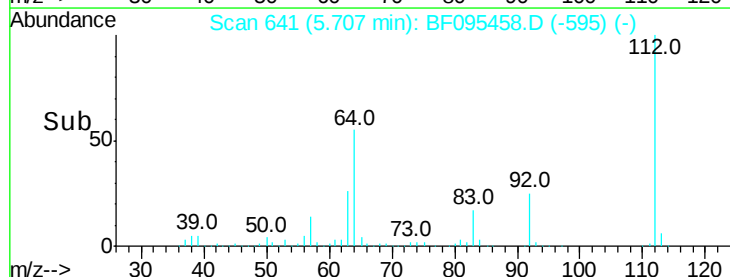
#5

2-Fluorophenol
Concen: 104.24 ng
RT: 5.71 min Scan# 641
Delta R.T. -0.03 min
Lab File: BF095458.D
Acq: 26 May 2017 13:41

Tgt Ion	Ratio	Lower	Upper
112	100		
64	55.1	46.0	69.0
63	25.6	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: 103.38 ng

RT: 7.29 min Scan# 910

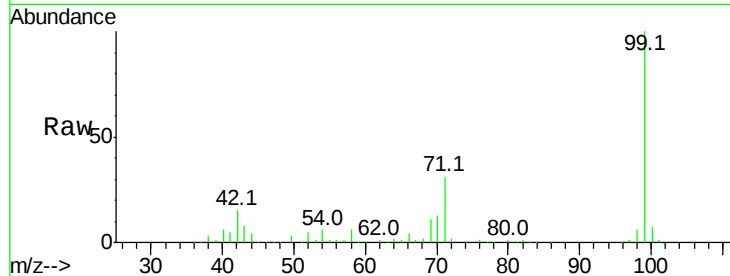
Delta R.T. -0.02 min

Lab File: BF095458.D

Acq: 26 May 2017 13:41

Tot Ion: 99 Resp: 735019

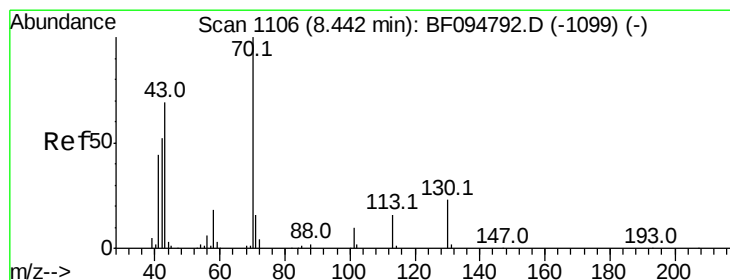
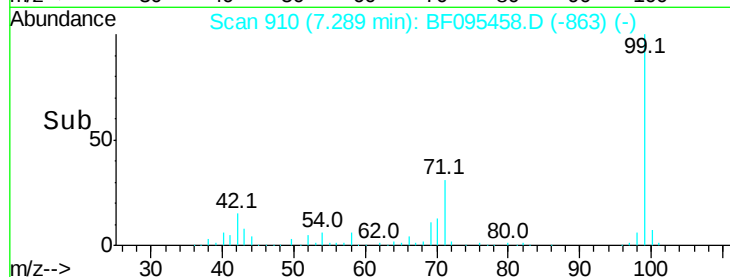
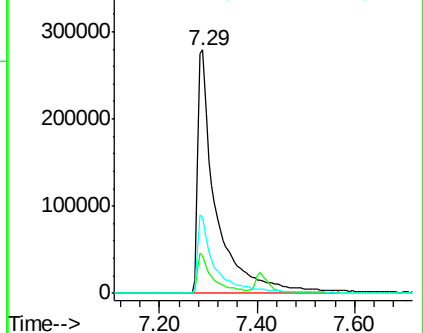
Ion	Ratio	Lower	Upper
99	100		
42	15.3	13.5	20.3
71	31.2	24.5	36.7



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: 10.10 ng

RT: 8.64 min Scan# 1140

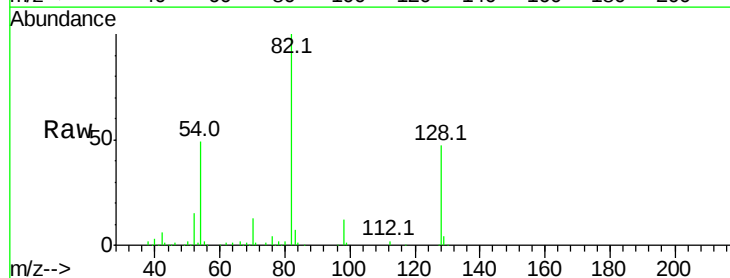
Delta R.T. 0.16 min

Lab File: BF095458.D

Acq: 26 May 2017 13:41

Tgt Ion: 70 Resp: 48566

Ion	Ratio	Lower	Upper
70	100		
42	43.3	47.2	70.8#
101	0.0	7.2	10.8#
130	1.8	15.9	23.9#

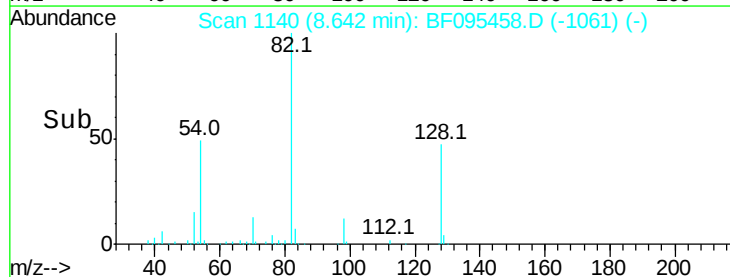
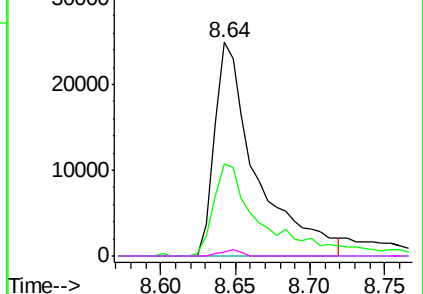


Abundance Ion 70.00 (69.70 to 70.70): BF0

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: BF095458.D

Acq: 26 May 2017 13:41

Tot Ion:136 Resp: 396720

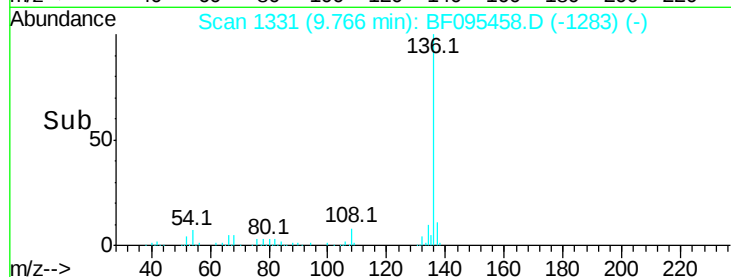
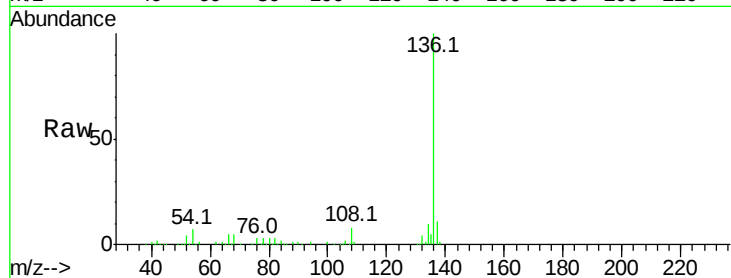
Ion Ratio Lower Upper

136 100

137 10.7 8.5 12.7

54 7.0 4.9 7.3

68 5.4 4.1 6.1

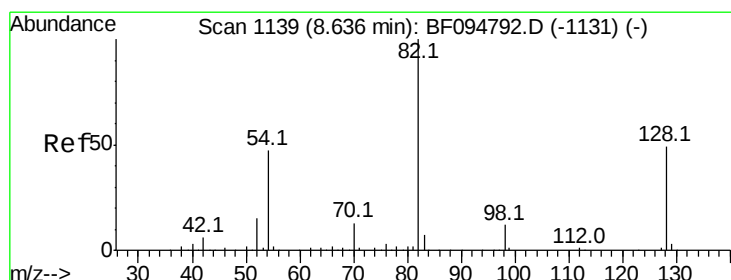
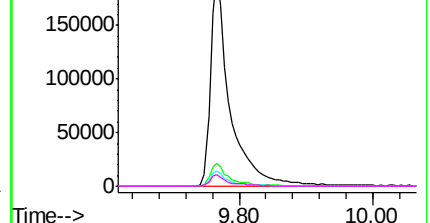


Abundance Ion 136.00 (135.70 to 136.70): E

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: 68.44 ng

RT: 8.64 min Scan# 1140

Delta R.T. -0.03 min

Lab File: BF095458.D

Acq: 26 May 2017 13:41

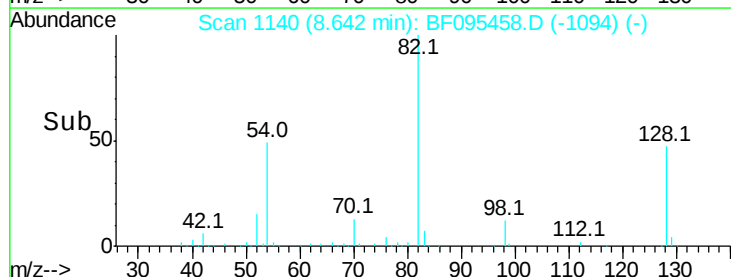
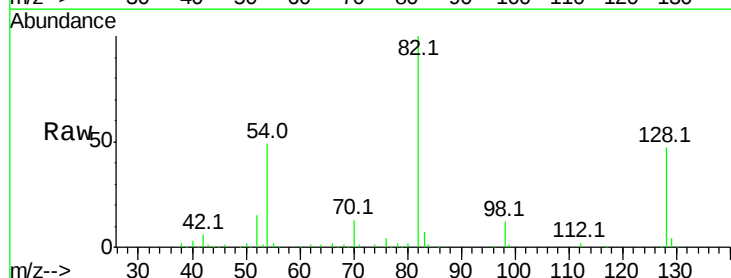
Tgt Ion: 82 Resp: 430592

Ion Ratio Lower Upper

82 100

128 47.0 34.0 51.0

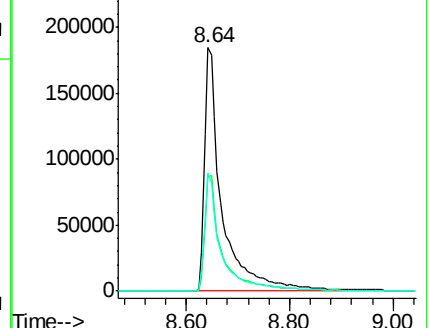
54 48.7 42.2 63.2

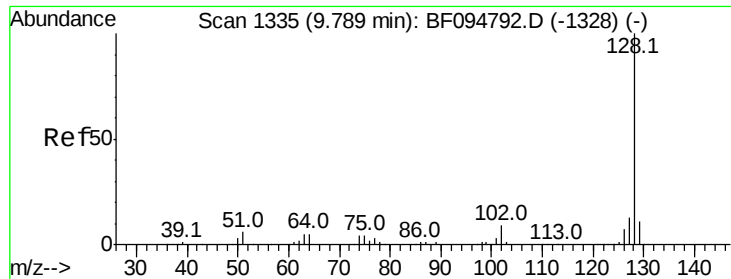


Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 128.00 (127.70 to 128.70): E

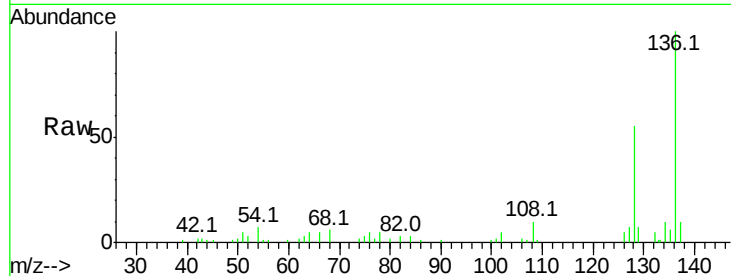
Ion 54.00 (53.70 to 54.70): BF0



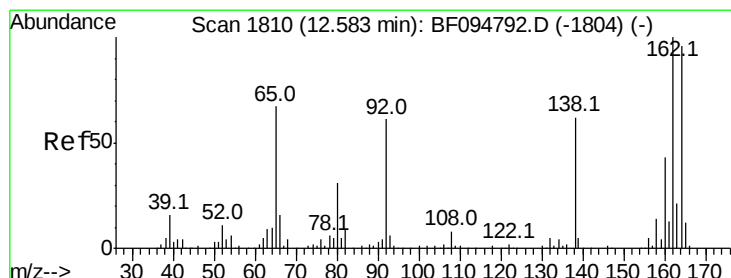
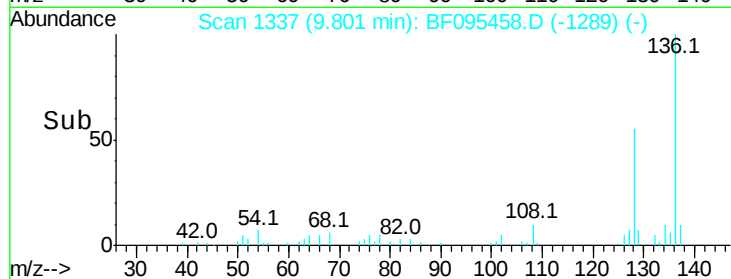
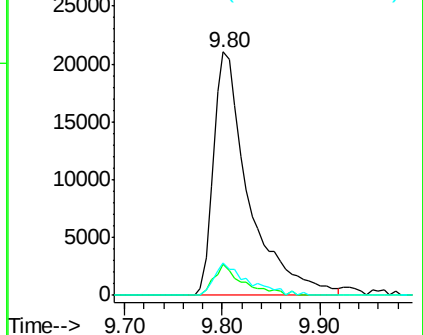


#31
Naphthalene
Concen: 2.65 ng
RT: 9.80 min Scan# 1337
Delta R.T. -0.02 min
Lab File: BF095458.D
Acq: 26 May 2017 13:41

Tot Ion	Ratio	Lower	Upper
128	100		
129	13.0	9.0	13.6
127	13.5	10.8	16.2

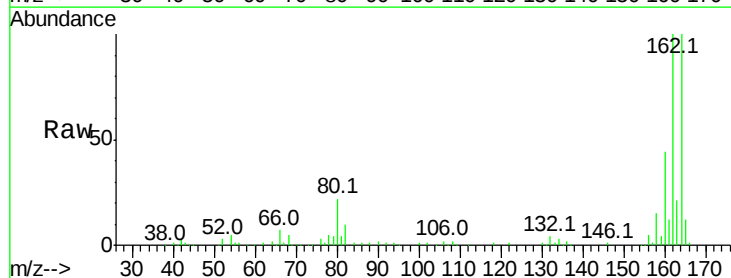


Abundance Ion 128.00 (127.70 to 128.70): E
Ion 129.00 (128.70 to 129.70): E
Ion 127.00 (126.70 to 127.70): E

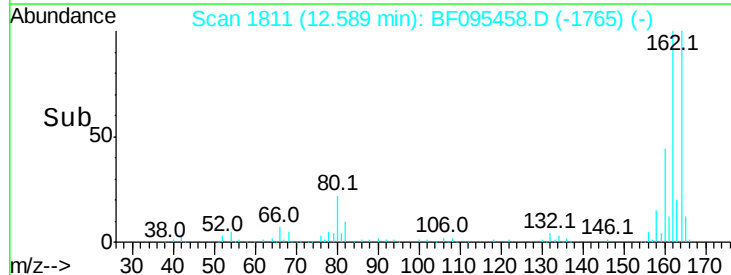
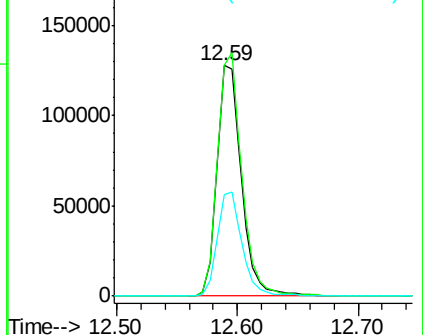


#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 12.59 min Scan# 1811
Delta R.T. -0.03 min
Lab File: BF095458.D
Acq: 26 May 2017 13:41

Tgt Ion	Ratio	Lower	Upper
164	100		
162	100.4	82.6	123.8
160	43.8	36.2	54.2



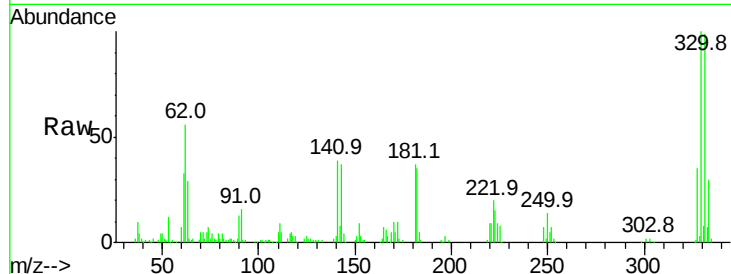
Abundance Ion 164.00 (163.70 to 164.70): E
Ion 162.00 (161.70 to 162.70): E
Ion 160.00 (159.70 to 160.70): E



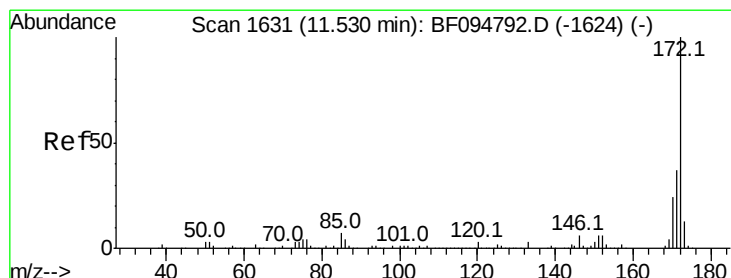
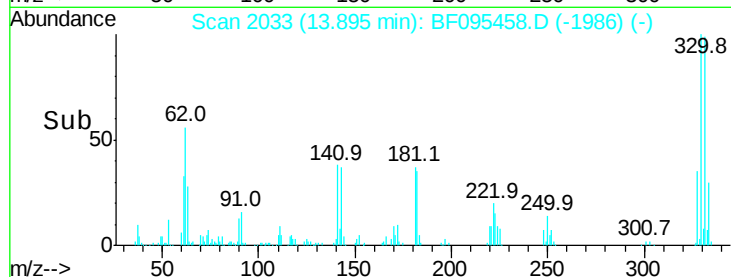
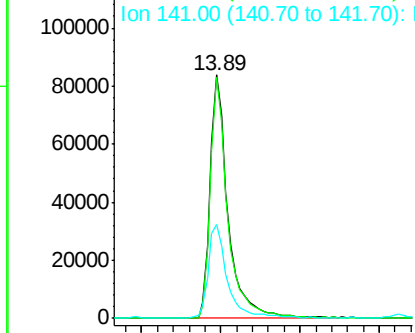


#41
 2,4,6-Tribromophenol
 Concen: 90.96 ng
 RT: 13.89 min Scan# 2033
 Delta R.T. -0.02 min
 Lab File: BF095458.D
 Acq: 26 May 2017 13:41

Tot Ion	Ratio	Lower	Upper
330	100		
332	96.0	76.6	115.0
141	41.4	31.4	47.2

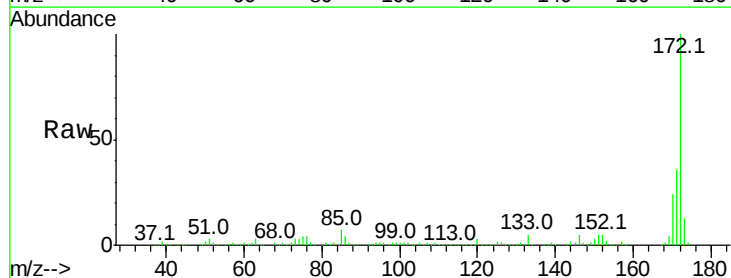


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

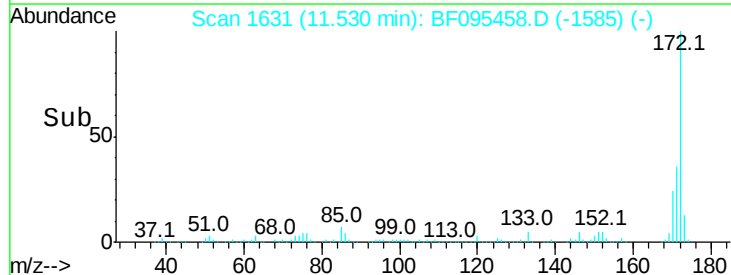
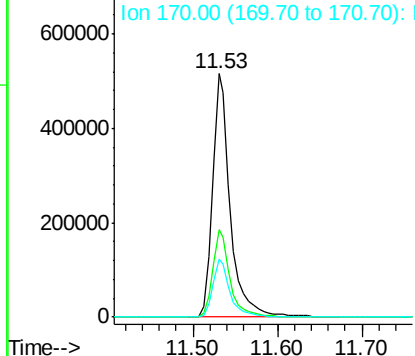


#44
 2-Fluorobiphenyl
 Concen: 62.22 ng
 RT: 11.53 min Scan# 1631
 Delta R.T. -0.03 min
 Lab File: BF095458.D
 Acq: 26 May 2017 13:41

Tgt Ion	Ratio	Lower	Upper
172	100		
171	35.7	29.6	44.4
170	23.7	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: 8.23 ng

RT: 12.24 min Scan# 1751

Delta R.T. -0.02 min

Lab File: BF095458.D

Acq: 26 May 2017 13:41

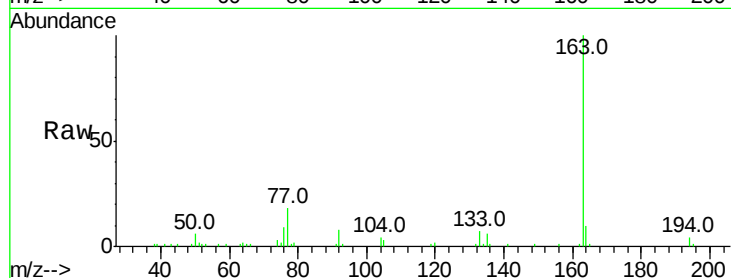
Tot Ion:163 Resp: 120045

Ion Ratio Lower Upper

163 100

194 3.7 2.6 4.0

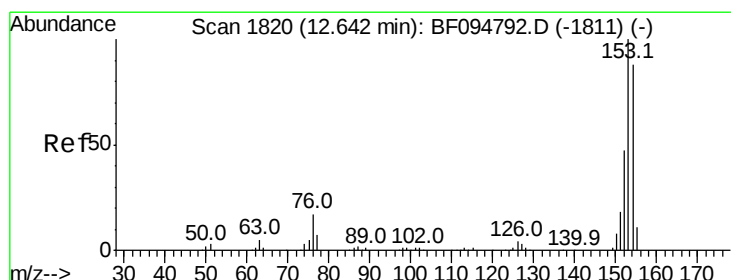
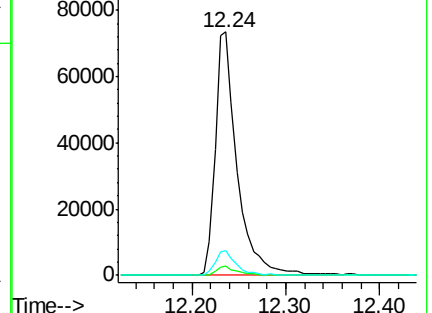
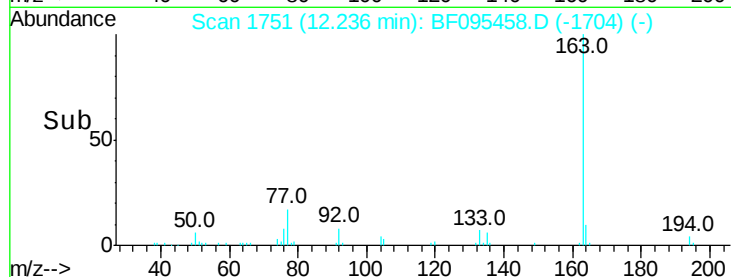
164 10.1 8.4 12.6



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: 11.87 ng

RT: 12.65 min Scan# 1821

Delta R.T. -0.02 min

Lab File: BF095458.D

Acq: 26 May 2017 13:41

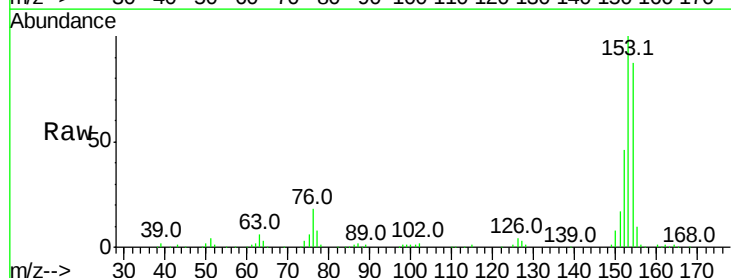
Tgt Ion:154 Resp: 134032

Ion Ratio Lower Upper

154 100

153 114.6 90.5 135.7

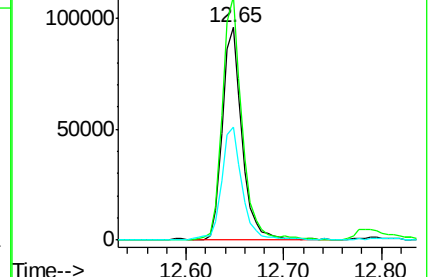
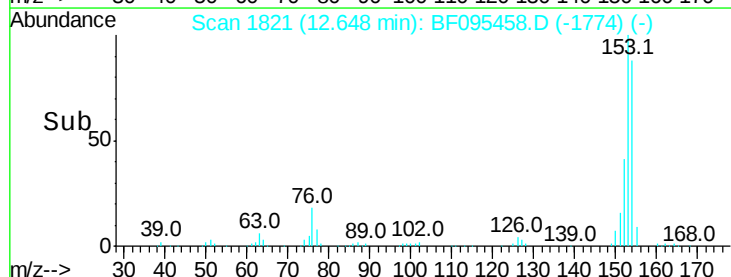
152 53.1 43.6 65.4

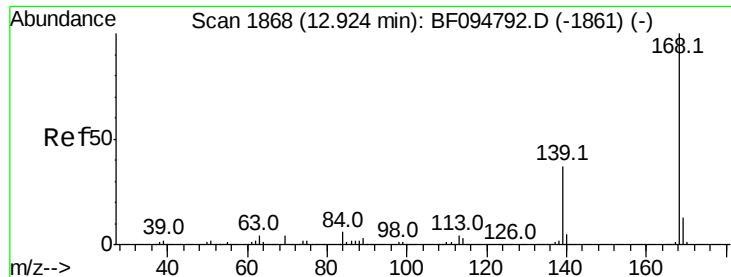


Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

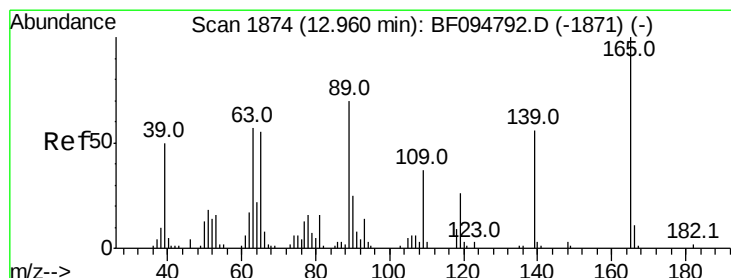
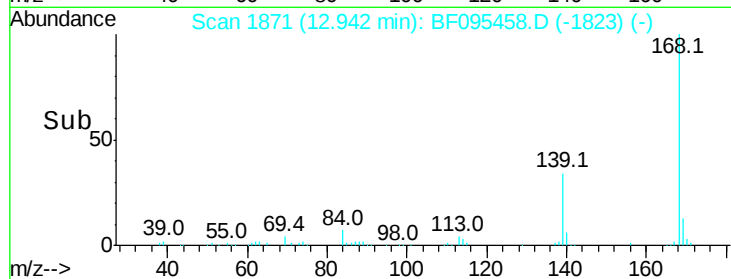
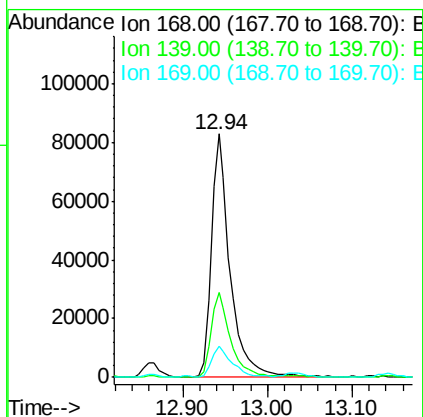
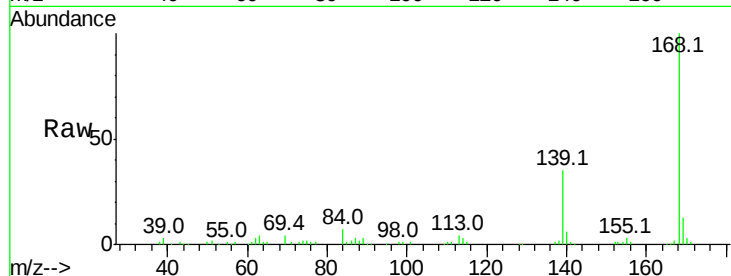
Ion 152.00 (151.70 to 152.70): E





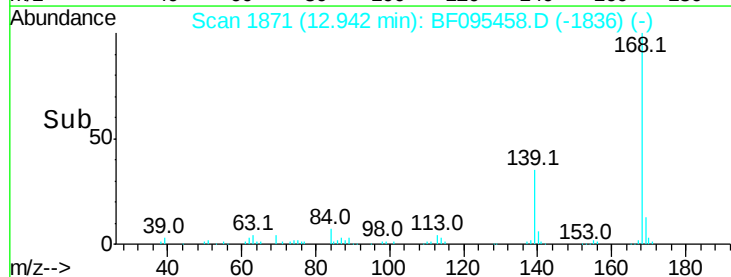
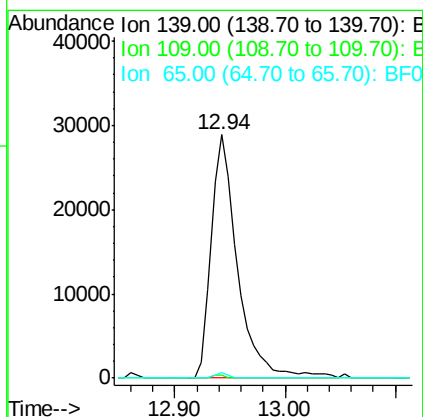
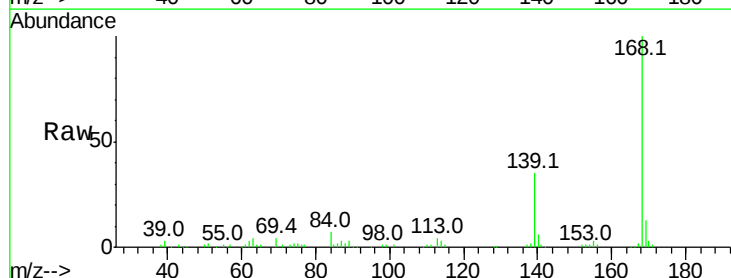
#54
Dibenzofuran
Concen: 8.30 ng
RT: 12.94 min Scan# 1871
Delta R.T. -0.02 min
Lab File: BF095458.D
Acq: 26 May 2017 13:41

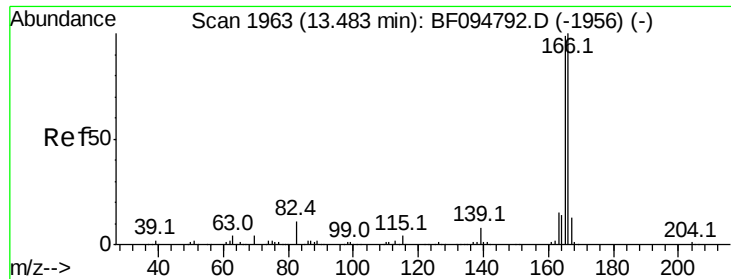
Tot Ion:168 Resp: 129727
Ion Ratio Lower Upper
168 100
139 34.9 30.6 45.8
169 13.1 10.8 16.2



#55
4-Nitrophenol
Concen: 24.80 ng
RT: 12.94 min Scan# 1871
Delta R.T. -0.09 min
Lab File: BF095458.D
Acq: 26 May 2017 13:41

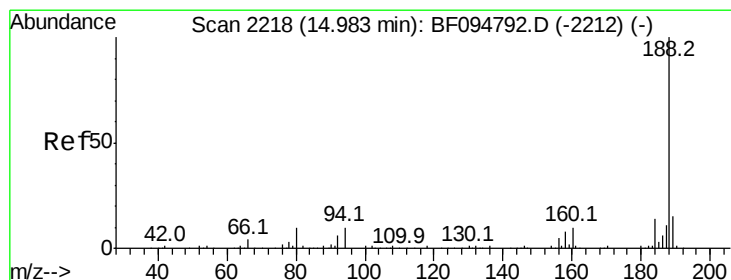
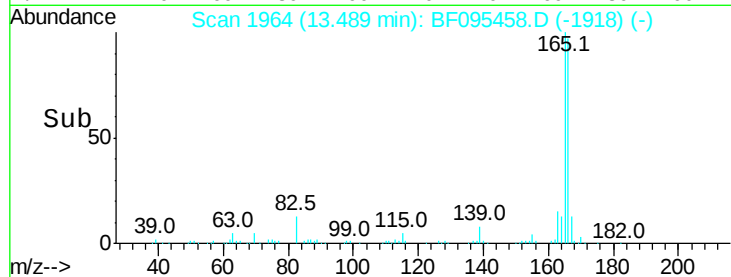
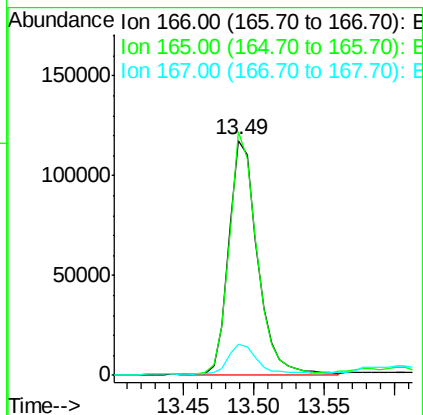
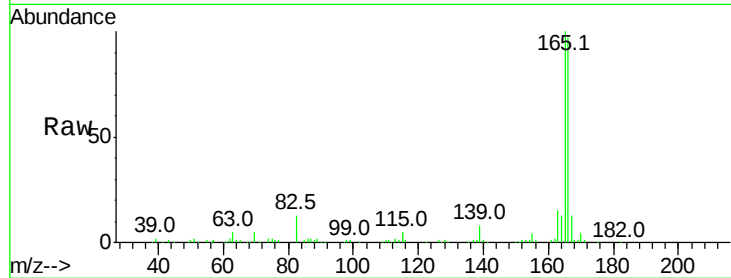
Tgt Ion:139 Resp: 47555
Ion Ratio Lower Upper
139 100
109 1.2 34.1 74.1#
65 2.3 31.4 71.4#





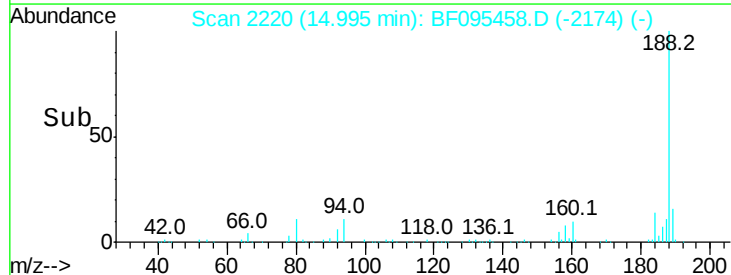
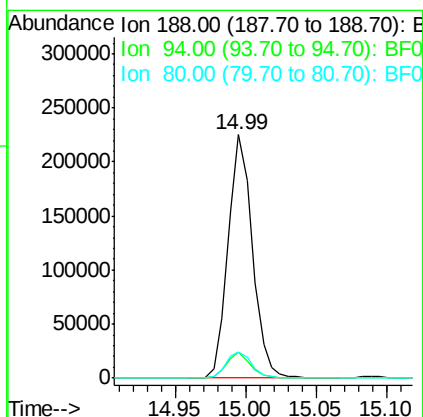
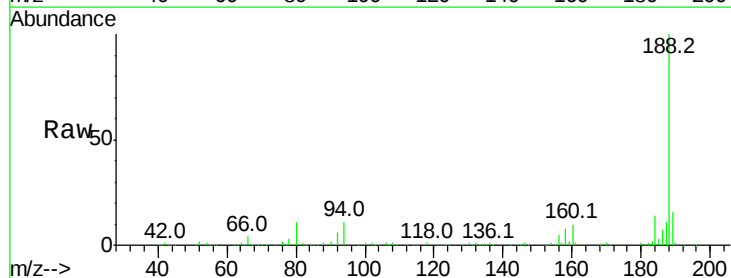
#57
Fluorene
 Concen: 12.20 ng
 RT: 13.49 min Scan# 1964
 Delta R.T. -0.03 min
 Lab File: BF095458.D
 Acq: 26 May 2017 13:41

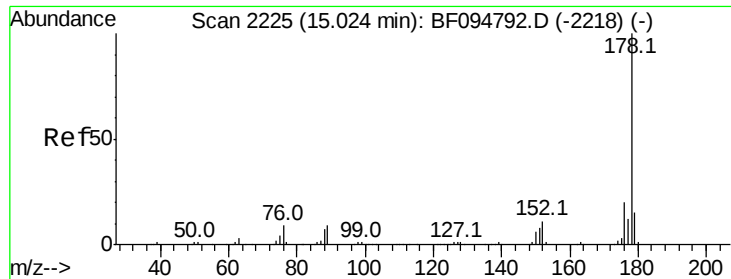
Tot Ion:166 Resp: 165879
 Ion Ratio Lower Upper
 166 100
 165 103.5 78.8 118.2
 167 13.0 10.6 16.0



#63
Phenanthrene-d10
 Concen: 20.00 ng
 RT: 14.99 min Scan# 2220
 Delta R.T. -0.03 min
 Lab File: BF095458.D
 Acq: 26 May 2017 13:41

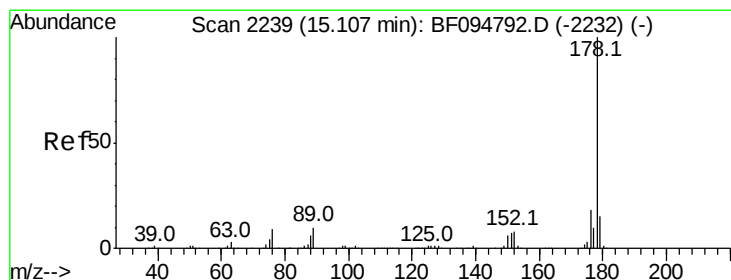
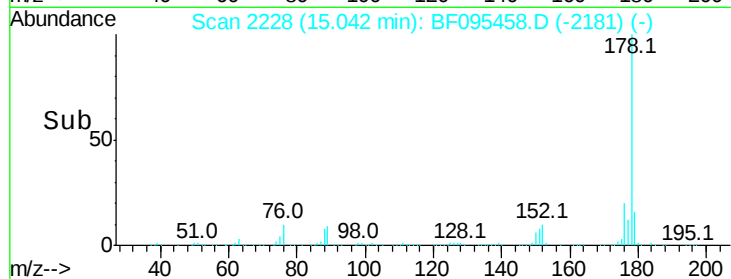
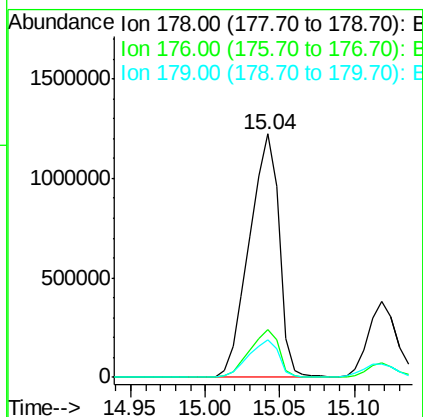
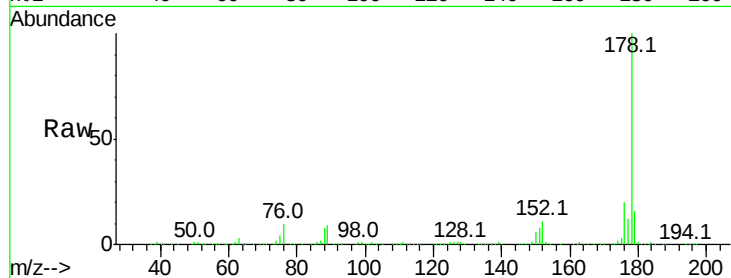
Tgt Ion:188 Resp: 270517
 Ion Ratio Lower Upper
 188 100
 94 10.7 9.4 14.2
 80 10.8 10.2 15.2





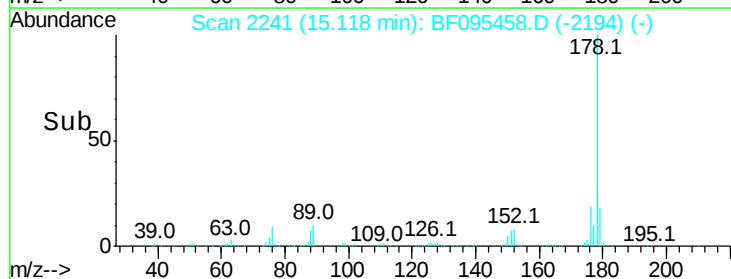
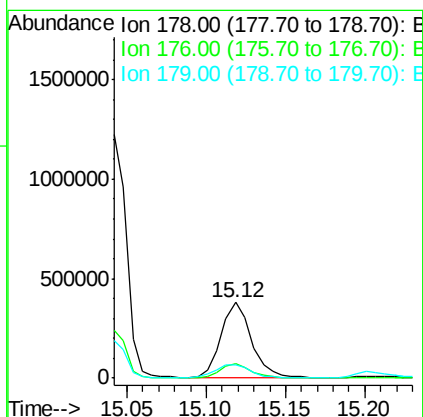
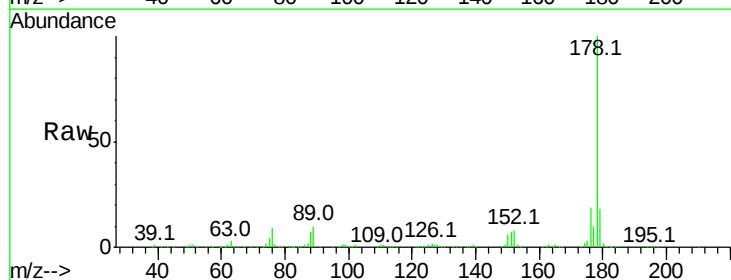
#70
Phenanthrene
Concen: 108.49 ng
RT: 15.04 min Scan# 2228
Delta R.T. -0.02 min
Lab File: BF095458.D
Acq: 26 May 2017 13:41

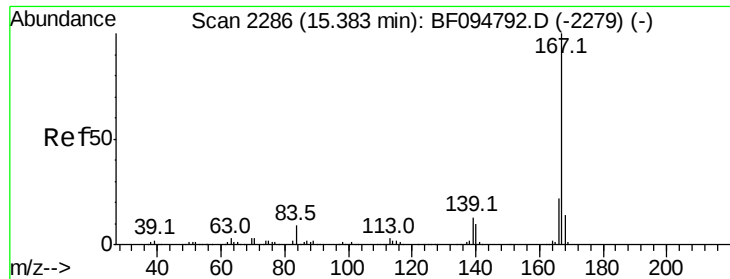
Tot Ion:178 Resp: 1686235
Ion Ratio Lower Upper
178 100
176 19.6 16.2 24.4
179 15.6 12.6 19.0



#71
Anthracene
Concen: 32.14 ng
RT: 15.12 min Scan# 2241
Delta R.T. -0.02 min
Lab File: BF095458.D
Acq: 26 May 2017 13:41

Tgt Ion:178 Resp: 510240
Ion Ratio Lower Upper
178 100
176 18.7 15.8 23.8
179 18.1 12.7 19.1





#72

Carbazole

Concen: 11.98 ng

RT: 15.41 min Scan# 2290

Delta R.T. -0.02 min

Lab File: BF095458.D

Acq: 26 May 2017 13:41

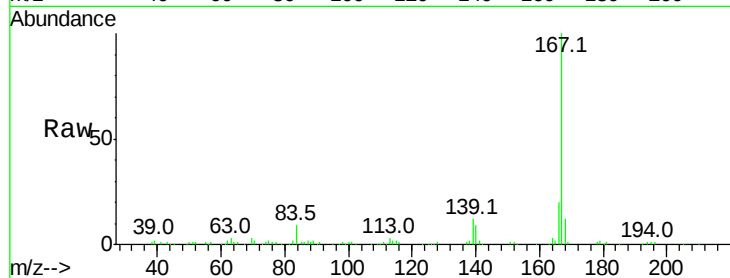
Tot Ion:167 Resp: 173074

Ion Ratio Lower Upper

167 100

166 20.3 18.1 27.1

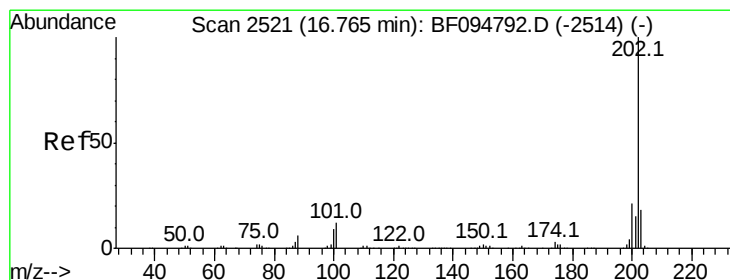
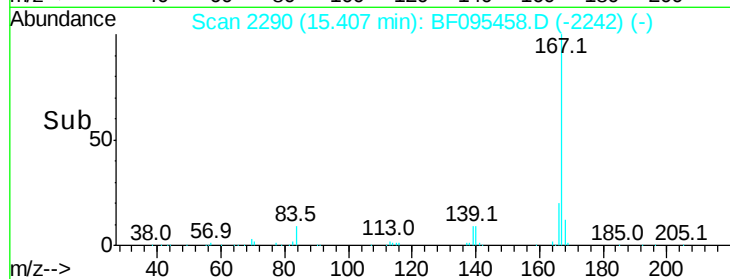
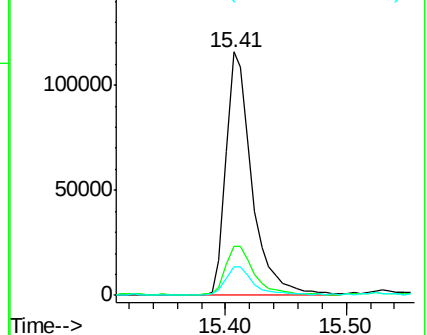
139 11.9 11.7 17.5



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: 112.33 ng

RT: 16.79 min Scan# 2525

Delta R.T. -0.01 min

Lab File: BF095458.D

Acq: 26 May 2017 13:41

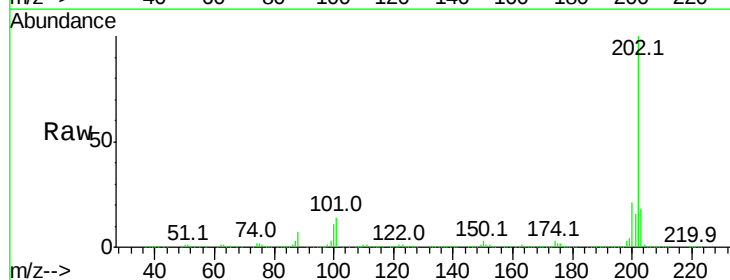
Tgt Ion:202 Resp: 1790996

Ion Ratio Lower Upper

202 100

101 14.3 0.0 33.2

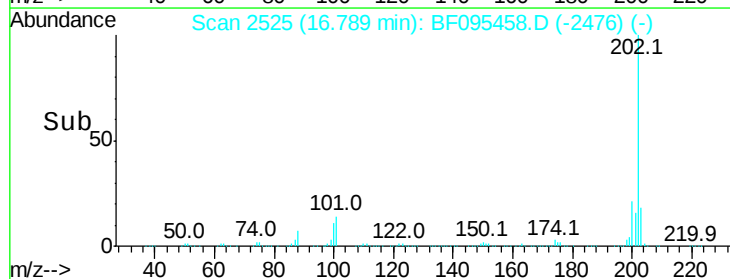
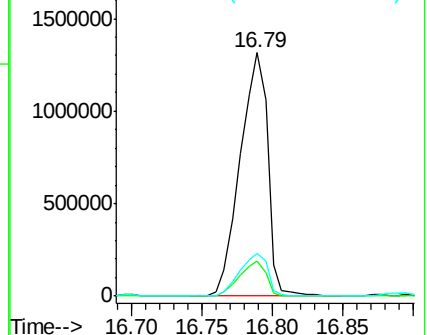
203 17.7 0.0 38.1

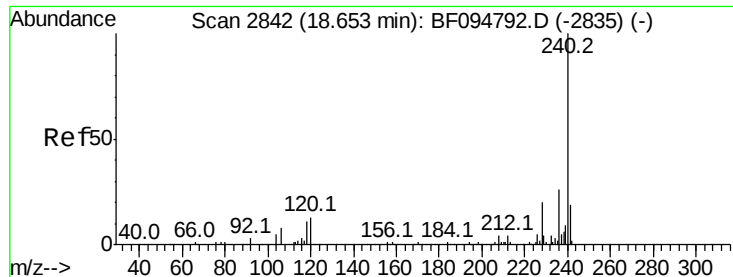


Abundance Ion 202.00 (201.70 to 202.70): E

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: 18.68 min Scan# 2846

Delta R.T. -0.02 min

Lab File: BF095458.D

Acq: 26 May 2017 13:41

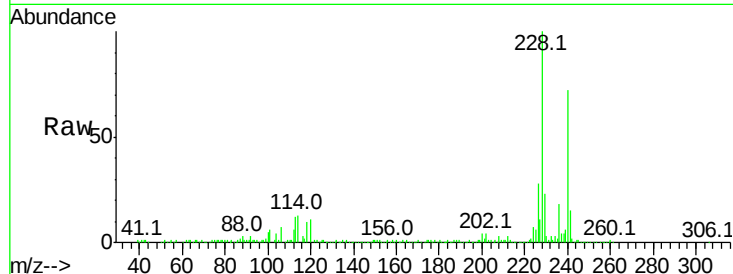
Tot Ion:240 Resp: 199254

Ion Ratio Lower Upper

240 100

120 14.6 5.8 8.8#

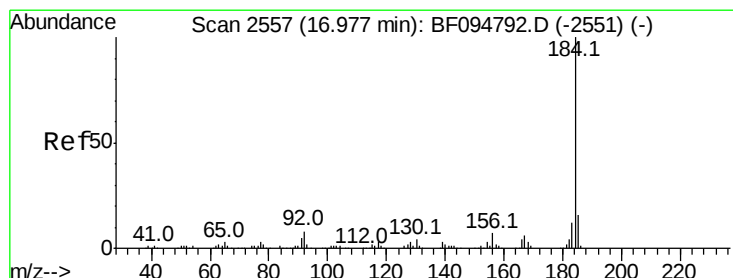
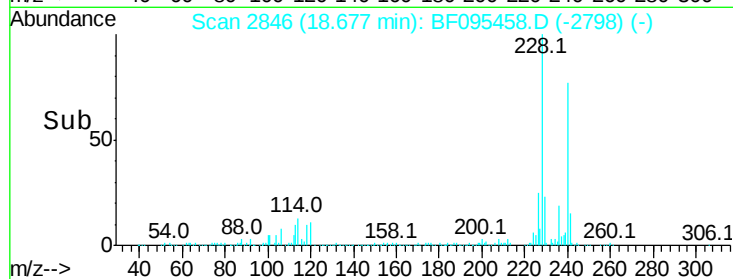
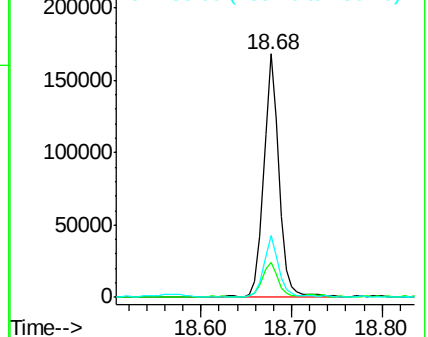
236 25.6 20.5 30.7



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



#76

Benzidine

Concen: 6.61 ng

RT: 16.94 min Scan# 2550

Delta R.T. -0.08 min

Lab File: BF095458.D

Acq: 26 May 2017 13:41

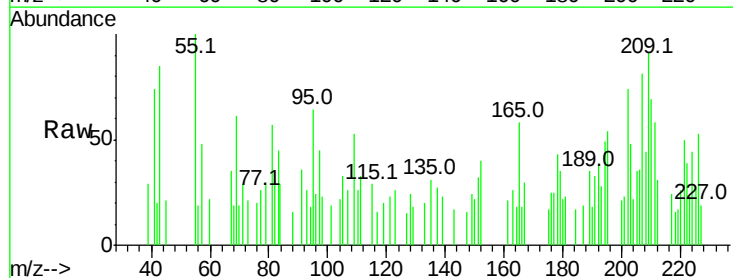
Tgt Ion:184 Resp: 121

Ion Ratio Lower Upper

184 100

185 0.0 15.5 23.3#

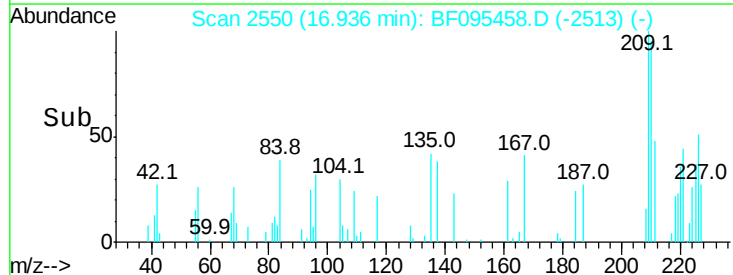
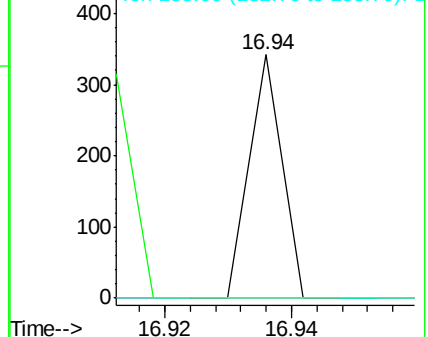
183 0.0 9.8 14.6#

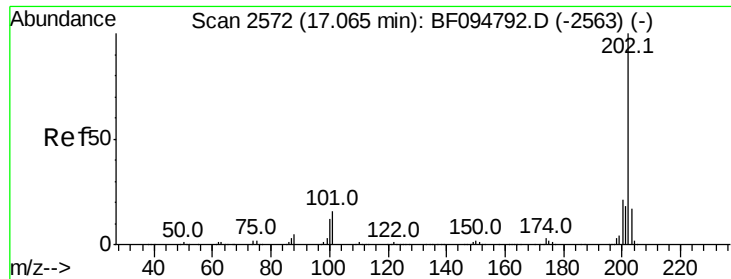


Abundance Ion 184.00 (183.70 to 184.70): E

Ion 185.00 (184.70 to 185.70): E

Ion 183.00 (182.70 to 183.70): E

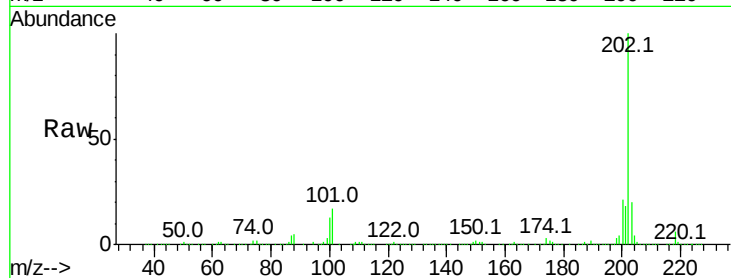




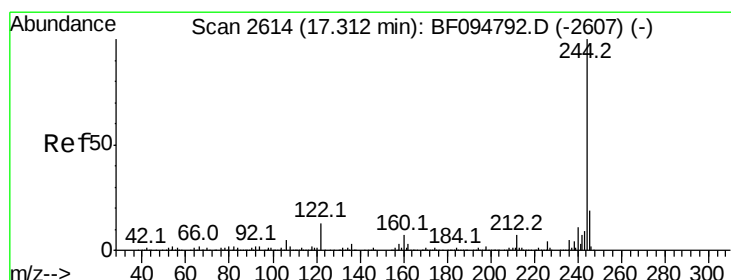
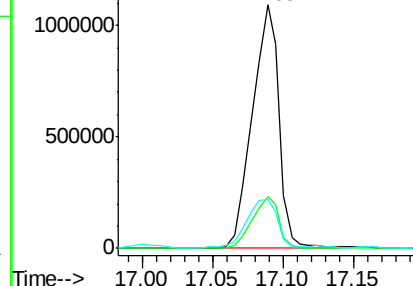
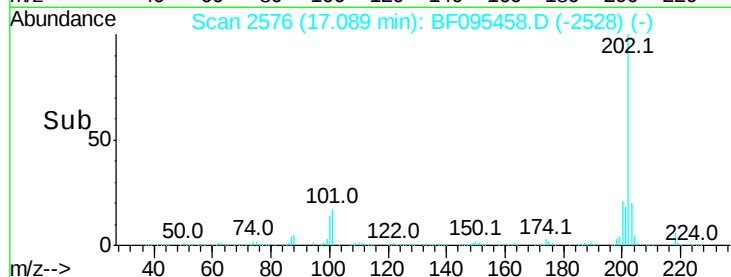
#77
Pvrene
Concen: 96.56 ng
RT: 17.09 min Scan# 2576
Delta R.T. -0.02 min
Lab File: BF095458.D
Acq: 26 May 2017 13:41

Tot Ion:202 Resp: 1438868

Ion	Ratio	Lower	Upper
202	100		
200	21.2	17.6	26.4
203	19.9	14.4	21.6



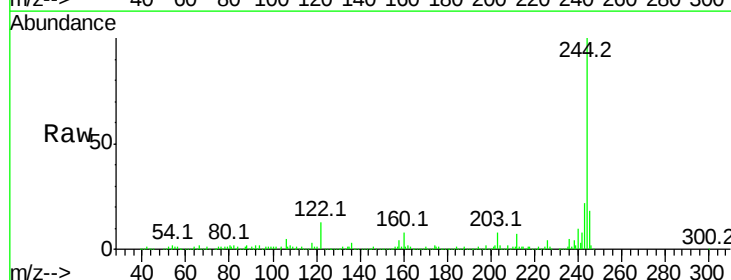
Abundance Ion 202.00 (201.70 to 202.70): E
Ion 200.00 (199.70 to 200.70): E
Ion 203.00 (202.70 to 203.70): E



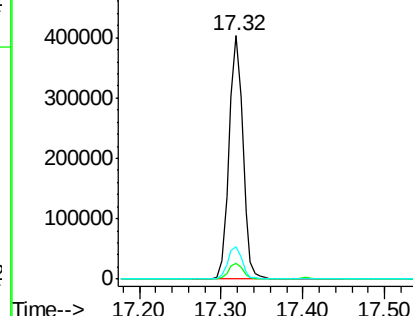
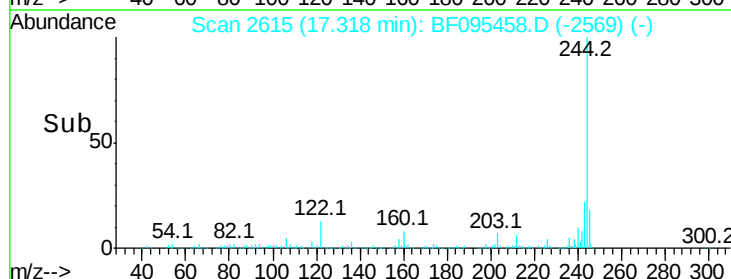
#78
Terphenyl-d14
Concen: 52.49 ng
RT: 17.32 min Scan# 2615
Delta R.T. -0.03 min
Lab File: BF095458.D
Acq: 26 May 2017 13:41

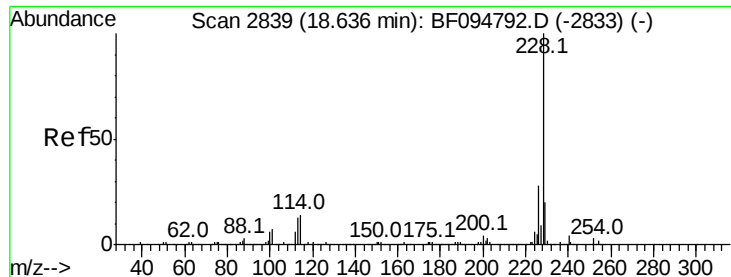
Tgt Ion:244 Resp: 474850

Ion	Ratio	Lower	Upper
244	100		
212	6.6	6.0	9.0
122	13.3	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: 67.58 ng

RT: 18.67 min Scan# 2844

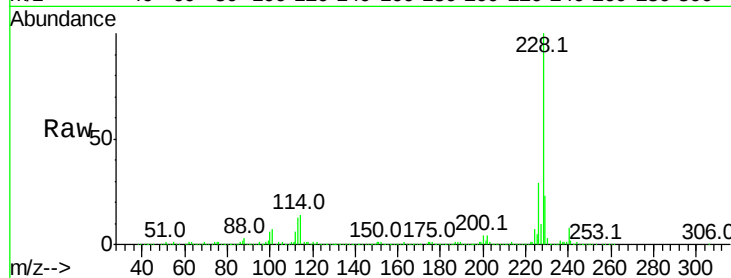
Delta R.T. -0.02 min

Lab File: BF095458.D

Acq: 26 May 2017 13:41

Tot Ion:228 Resp: 783666

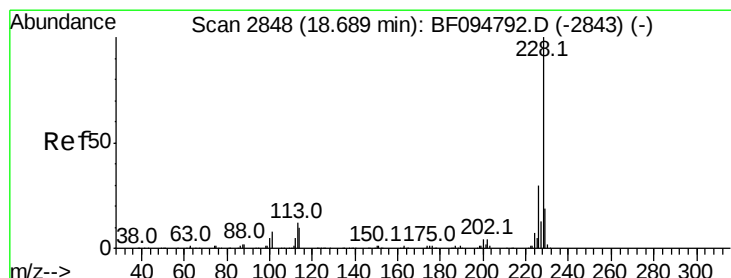
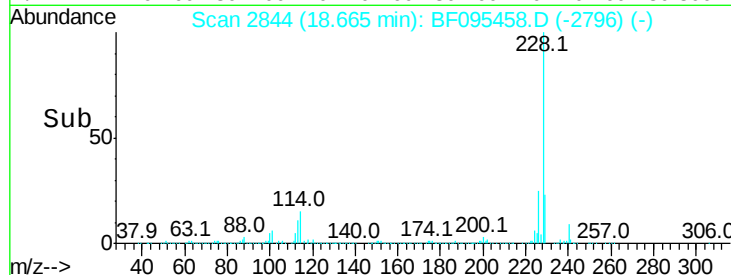
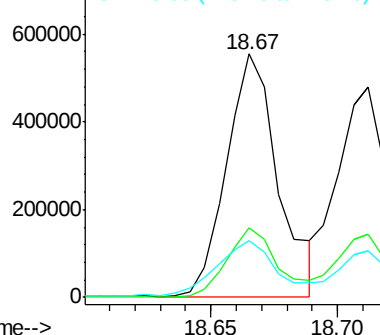
Ion	Ratio	Lower	Upper
228	100		
226	28.5	22.6	33.8
229	23.0	16.3	24.5



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: 58.26 ng

RT: 18.71 min Scan# 2852

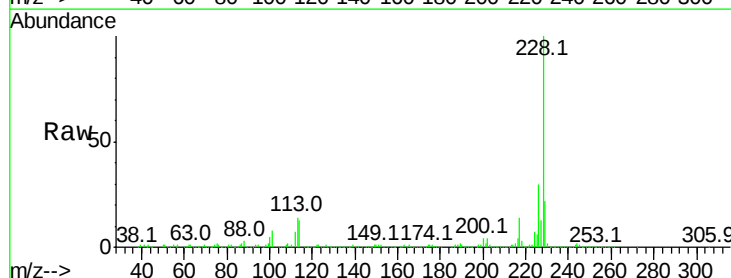
Delta R.T. -0.02 min

Lab File: BF095458.D

Acq: 26 May 2017 13:41

Tgt Ion:228 Resp: 653285

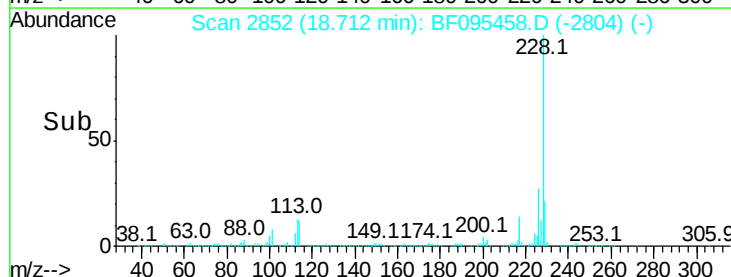
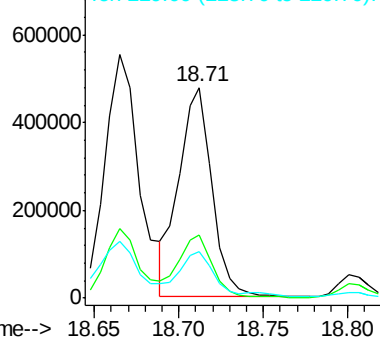
Ion	Ratio	Lower	Upper
228	100		
226	30.1	24.9	37.3
229	22.2	15.8	23.6

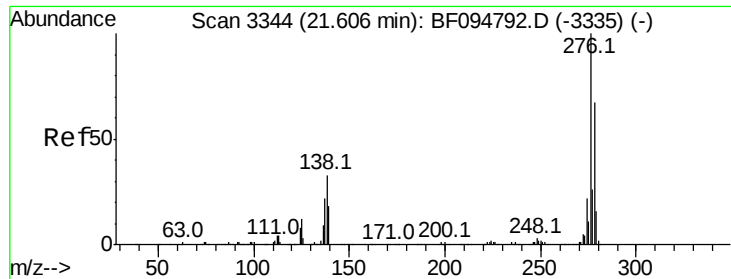


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

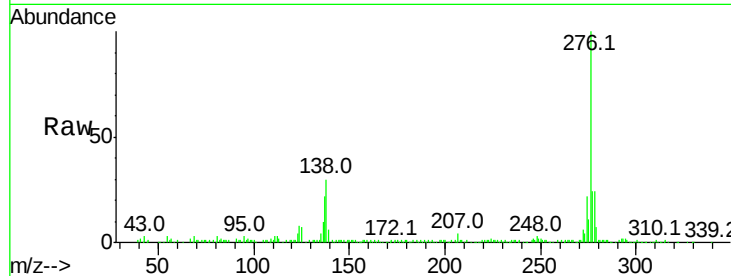
Ion 229.00 (228.70 to 229.70): E



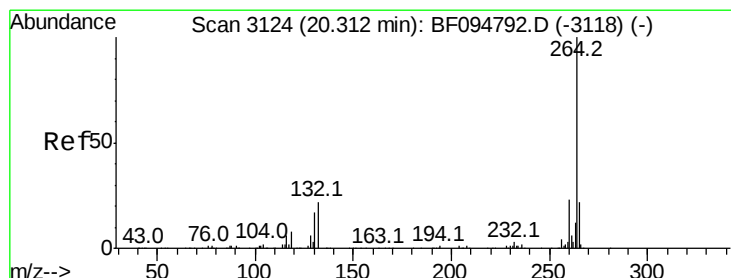
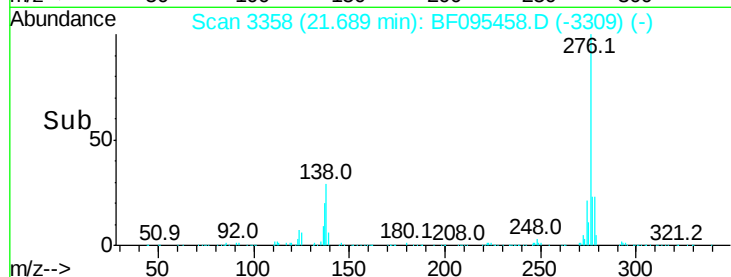
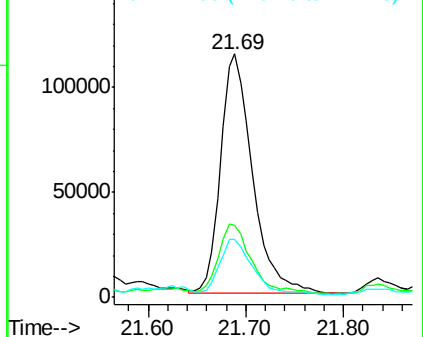


#85
Indeno(1,2,3-cd)pyrene
Concen: 28.62 ng
RT: 21.69 min Scan# 3358
Delta R.T. -0.01 min
Lab File: BF095458.D
Acq: 26 May 2017 13:41

Tot Ion	Ratio	Lower	Upper
276	100		
138	31.2	27.8	41.6
277	24.2	20.2	30.4

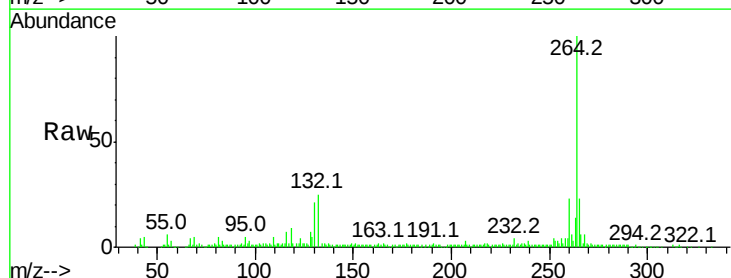


Abundance Ion 276.00 (275.70 to 276.70): E
Ion 138.00 (137.70 to 138.70): E
Ion 277.00 (276.70 to 277.70): E

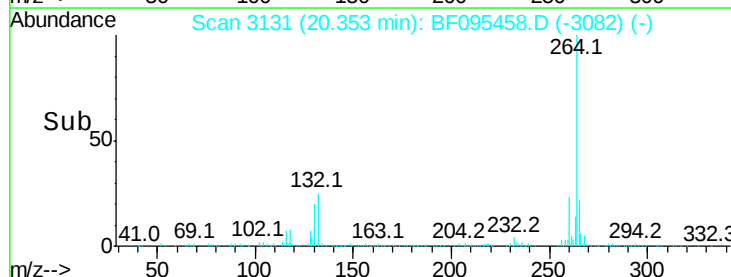
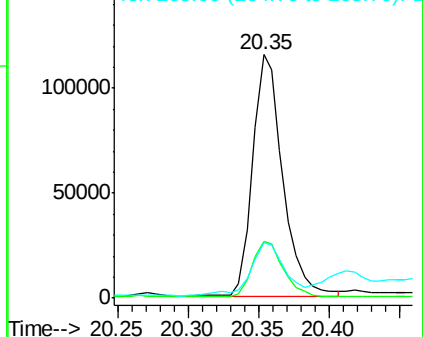


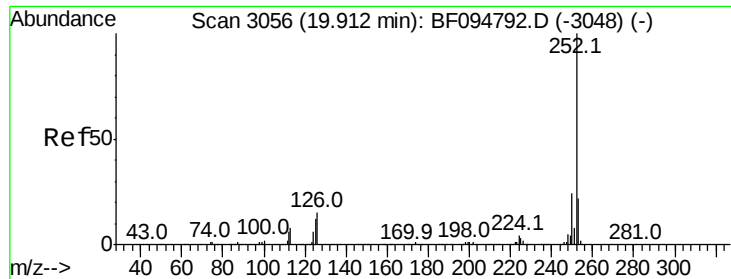
#86
Perylene-d12
Concen: 20.00 ng
RT: 20.35 min Scan# 3131
Delta R.T. -0.01 min
Lab File: BF095458.D
Acq: 26 May 2017 13:41

Tgt Ion	Ratio	Lower	Upper
264	100		
260	23.5	19.5	29.3
265	23.0	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: 97.46 ng

RT: 19.95 min Scan# 3062

Delta R.T. -0.01 min

Lab File: BF095458.D

Acq: 26 May 2017 13:41

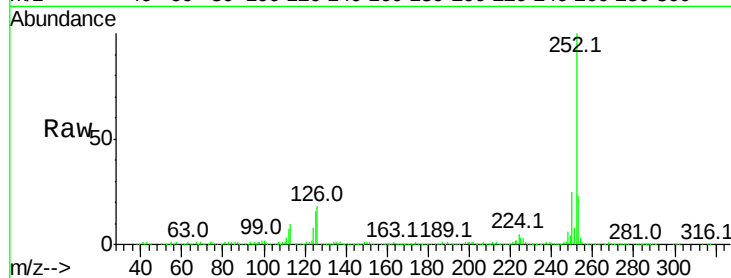
Tot Ion:252 Resp: 1050981

Ion Ratio Lower Upper

252 100

253 23.1 18.1 27.1

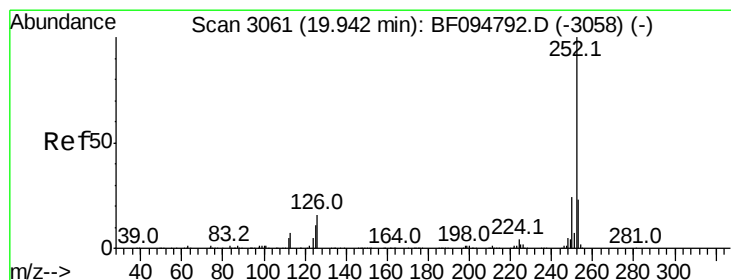
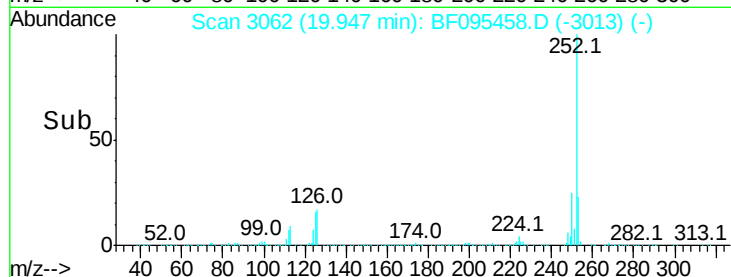
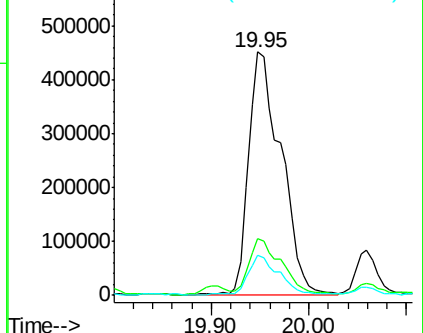
125 16.3 9.8 14.8#



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: 101.04 ng

RT: 19.95 min Scan# 3062

Delta R.T. -0.04 min

Lab File: BF095458.D

Acq: 26 May 2017 13:41

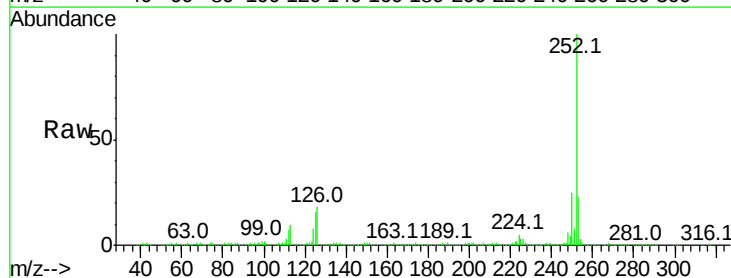
Tgt Ion:252 Resp: 1050981

Ion Ratio Lower Upper

252 100

253 23.1 18.4 27.6

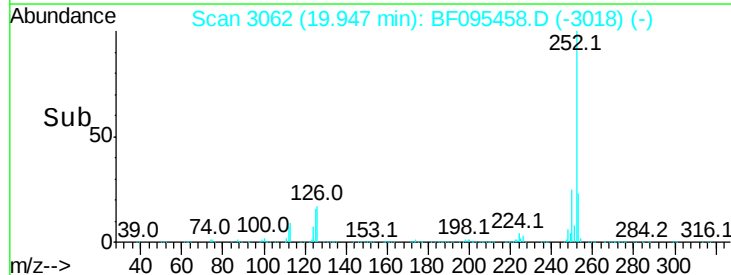
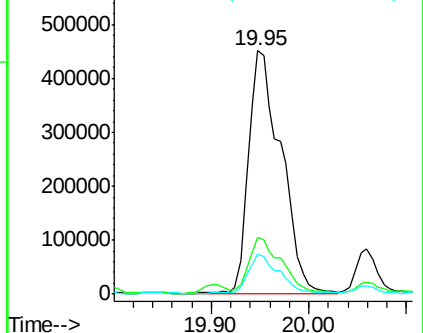
125 16.3 13.1 19.7

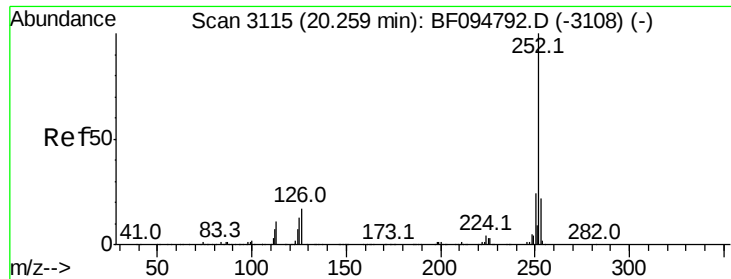


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

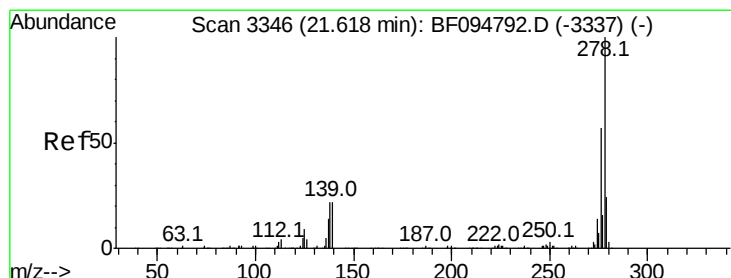
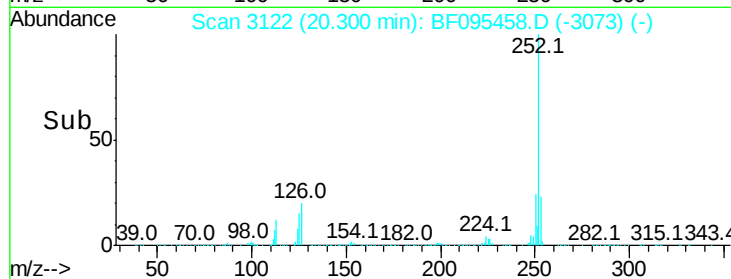
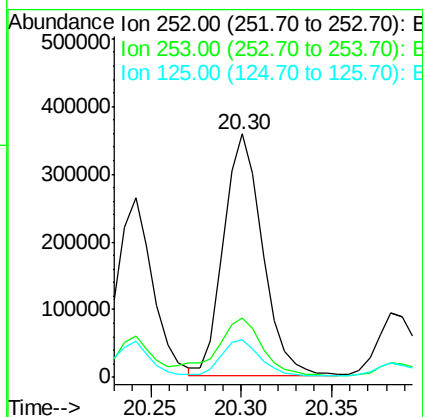
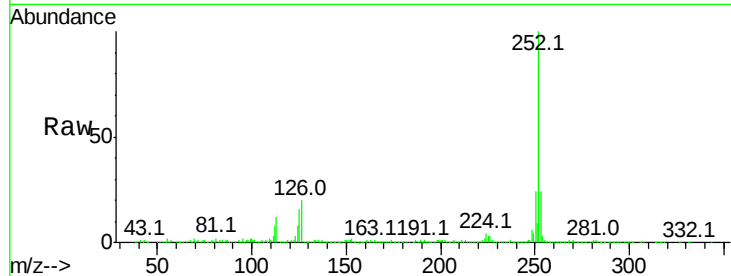
Ion 125.00 (124.70 to 125.70): E





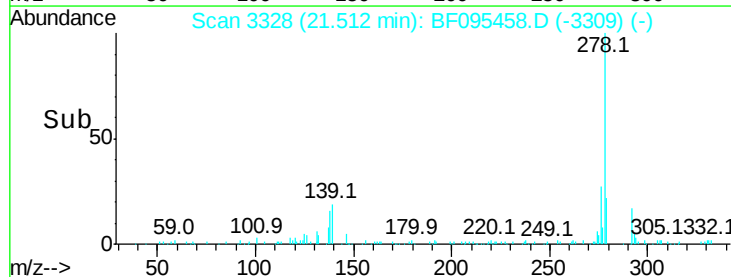
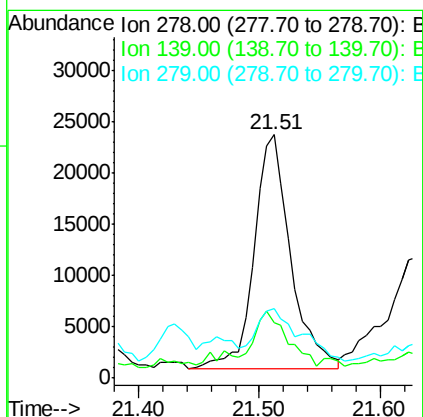
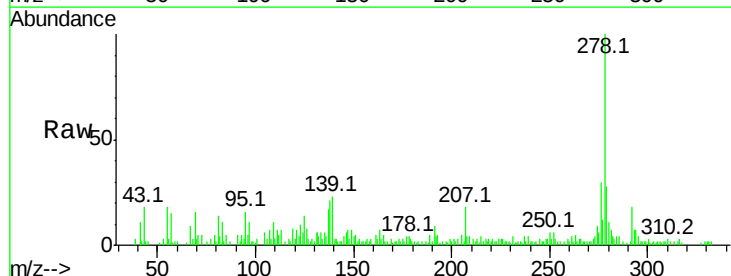
#89
Benzo(a)pyrene
Concen: 53.70 ng
RT: 20.30 min Scan# 3122
Delta R.T. -0.01 min
Lab File: BF095458.D
Acq: 26 May 2017 13:41

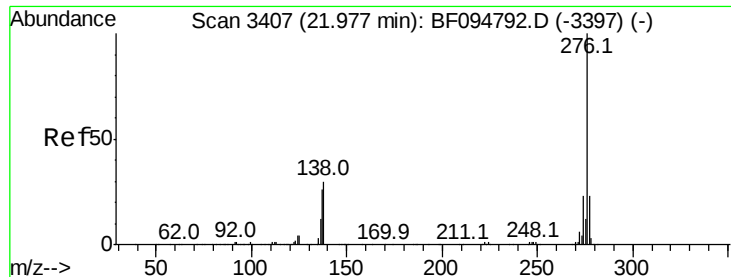
Tot Ion	Ratio	Lower	Upper
252	100		
253	24.5	17.5	26.3
125	15.6	11.0	16.4



#90
Dibenzo(a,h)anthracene
Concen: 5.88 ng
RT: 21.51 min Scan# 3328
Delta R.T. -0.19 min
Lab File: BF095458.D
Acq: 26 May 2017 13:41

Tgt Ion	Ratio	Lower	Upper
278	100		
139	22.6	16.6	24.8
279	28.5	19.3	28.9





#91

Benzo(a,h,i)perylene

Concen: 29.32 ng

RT: 22.08 min Scan# 3424

Delta R.T. -0.01 min

Lab File: BF095458.D

Acq: 26 May 2017 13:41

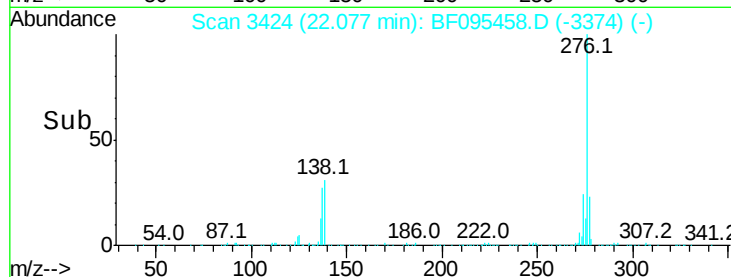
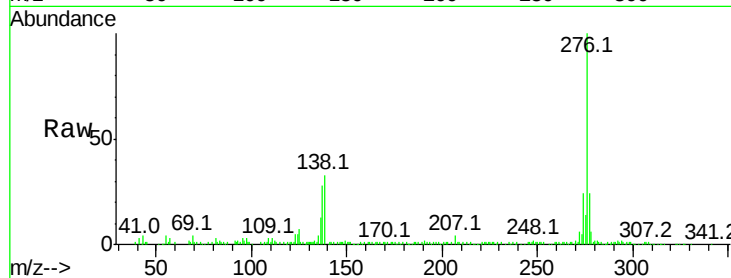
Tot Ion: 276 Resp: 236484

Ion Ratio Lower Upper

276 100

277 24.4 18.6 28.0

138 32.6 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

