

Data Path : Z:\HPCHEM1\BNA F\DATA\BF052617\
 Data File : BF095475.D
 Acq On : 26 May 2017 22:51
 Operator : SJ/MA
 Sample : I3240-03 10X
 Misc :
 ALS Vial : 22 Sample Multiplier: 1

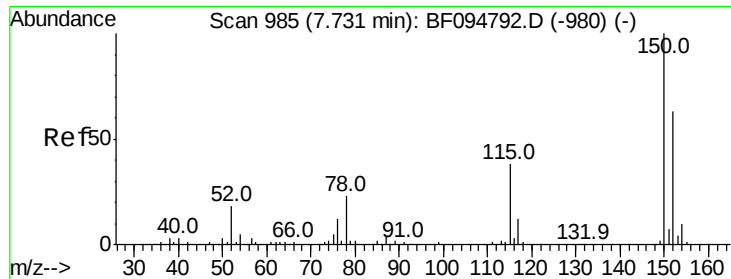
Quant Time: May 27 03:12:09 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF050217.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri May 26 16:50:16 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.74	152	86955	20.00	ng	0.00
21) Naphthalene-d8	9.76	136	350285	20.00	ng	0.00
38) Acenaphthene-d10	12.60	164	140146	20.00	ng	0.00
63) Phenanthrene-d10	15.00	188	205330	20.00	ng	0.00
75) Chrysene-d12	18.69	240	164320	20.00	ng	0.01
86) Perylene-d12	20.37	264	120452	20.00	ng	0.01

System Monitoring Compounds						
5) 2-Fluorophenol	5.80	112	31019	5.95	ng	0.09
7) Phenol-d6	7.38	99	31657	5.06	ng	0.08
23) Nitrobenzene-d5	8.69	82	33449	6.02	ng	0.04
41) 2,4,6-Tribromophenol	13.92	330	8323	7.25	ng	0.02
44) 2-Fluorobiphenyl	11.54	172	71543	7.35	ng	0.00
78) Terphenyl-d14	17.32	244	43327	5.81	ng	0.00

Target Compounds						Qvalue
22) Acetophenone	8.38	105	26452	3.15	ng	# 52
31) Naphthalene	9.80	128	71419	4.06	ng	99
32) Benzoic acid	9.73	122	115	5.11	ng	# 1
37) 2-Methylnaphthalene	10.93	142	57892	5.01	ng	93
51) Acenaphthene	12.65	154	25926	2.91	ng	94
57) Fluorene	13.49	166	31941	2.98	ng	# 95
70) Phenanthrene	15.04	178	325770	27.61	ng	99
71) Anthracene	15.04	178	325770	27.03	ng	99
72) Carbazole	15.42	167	26074	2.38	ng	# 81
74) Fluoranthene	16.79	202	450248	37.20	ng	99
76) Benzydine	17.02	184	315	6.65	ng	# 1
77) Pvrene	17.09	202	418164	34.03	ng	95
80) Benzo(a)anthracene	18.68	228	164373	17.19	ng	97
82) Chrysene	18.72	228	161370	17.45	ng	98
83) Bis(2-ethylhexyl)phthalate	18.73	149	142237	17.46	ng	# 97
85) Indeno(1,2,3-cd)pyrene	21.71	276	68138	9.07	ng	94
87) Benzo(b)fluoranthene	19.96	252	229336	30.81	ng	# 82
88) Benzo(k)fluoranthene	19.96	252	230863	32.16	ng	# 86
89) Benzo(a)pvrene	20.31	252	109468	15.94	ng	# 77
90) Dibenzo(a,h)anthracene	21.70	278	17426	3.07	ng	# 57
91) Benzo(g,h,i)perylene	22.09	276	65541	11.77	ng	# 91

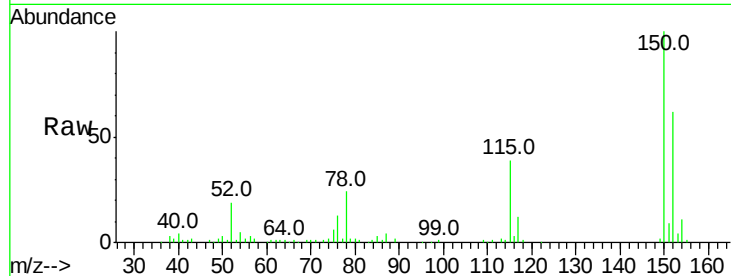
(#) = qualifier out of range (m) = manual integration (+) = signals summed



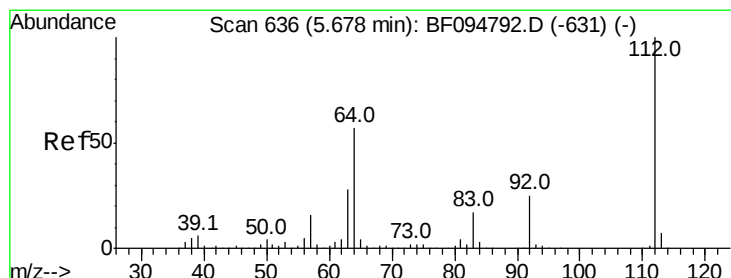
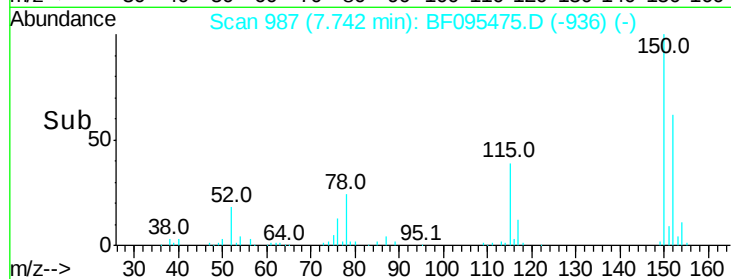
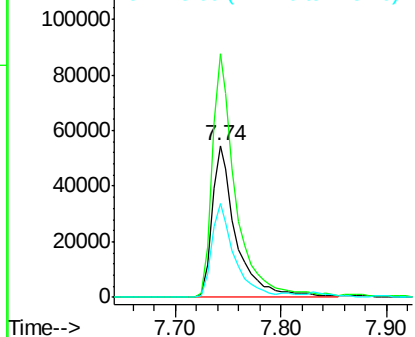
#1

1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 7.74 min Scan# 987
Delta R.T. 0.00 min
Lab File: BF095475.D
Acq: 26 May 2017 22:51

Tot Ion	Ratio	Lower	Upper
152	100		
150	160.5	126.2	189.2
115	62.0	52.2	78.2



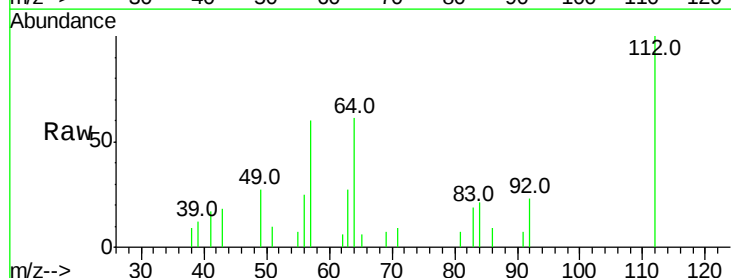
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



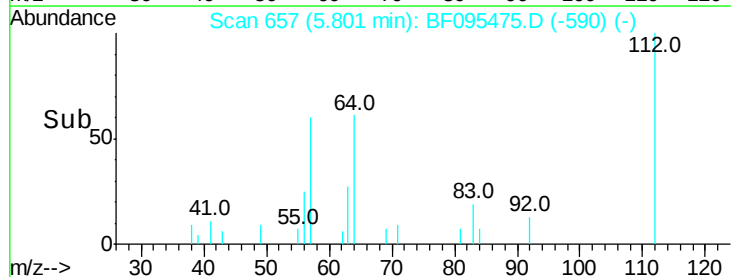
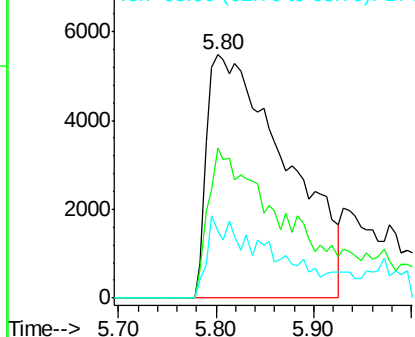
#5

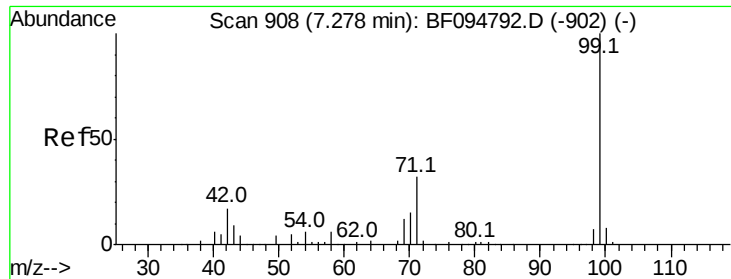
2-Fluorophenol
Concen: 5.95 ng
RT: 5.80 min Scan# 657
Delta R.T. 0.09 min
Lab File: BF095475.D
Acq: 26 May 2017 22:51

Tgt Ion	Ratio	Lower	Upper
112	100		
64	61.5	46.0	69.0
63	27.5	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: 5.06 ng

RT: 7.38 min Scan# 925

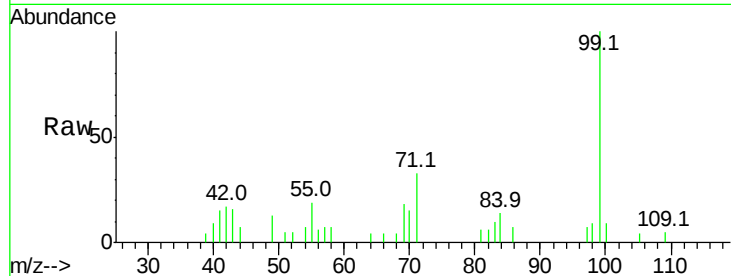
Delta R.T. 0.08 min

Lab File: BF095475.D

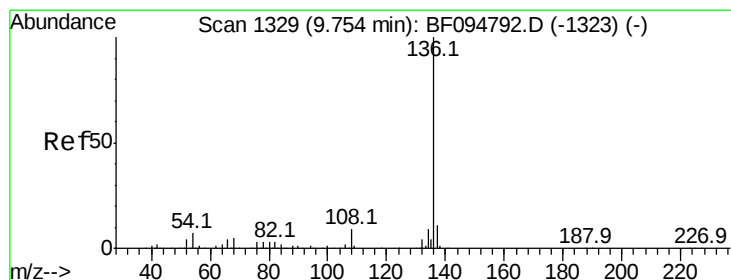
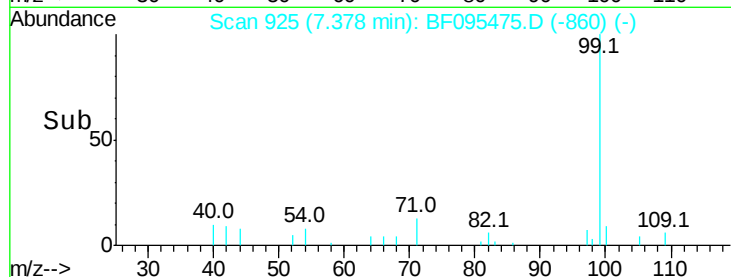
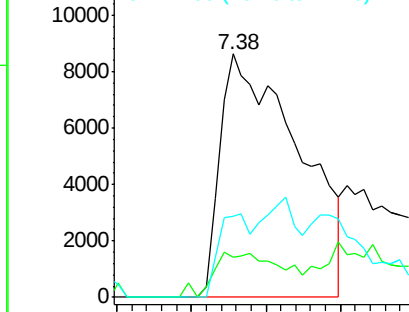
Acq: 26 May 2017 22:51

Tot Ion: 99 Resp: 31657

Ion	Ratio	Lower	Upper
99	100		
42	16.7	13.5	20.3
71	33.2	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



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 9.76 min Scan# 1330

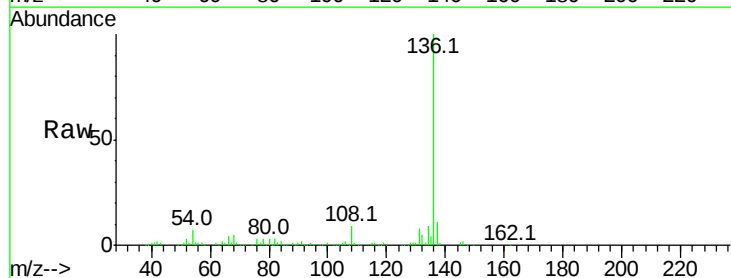
Delta R.T. 0.00 min

Lab File: BF095475.D

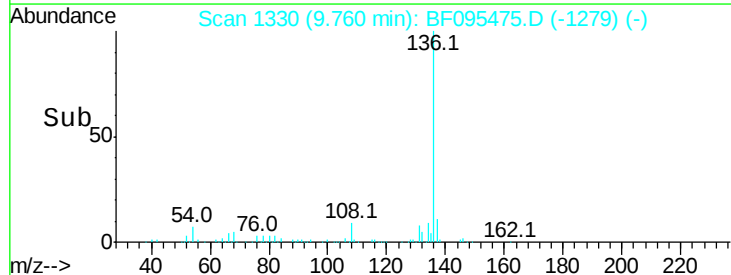
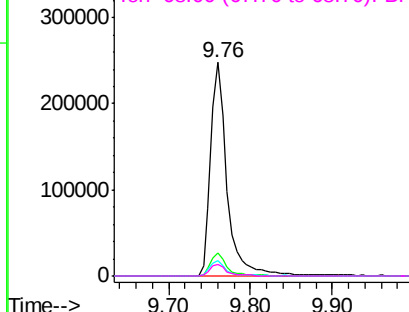
Acq: 26 May 2017 22:51

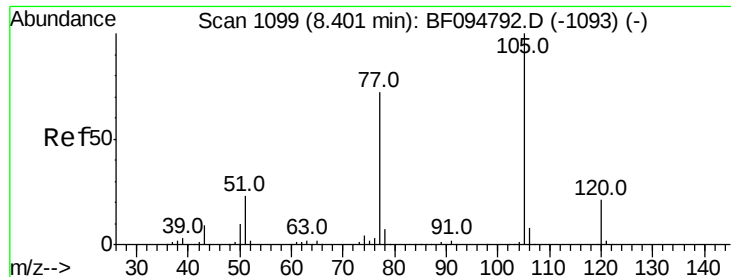
Tgt Ion: 136 Resp: 350285

Ion	Ratio	Lower	Upper
136	100		
137	10.8	8.5	12.7
54	7.0	4.9	7.3
68	5.3	4.1	6.1



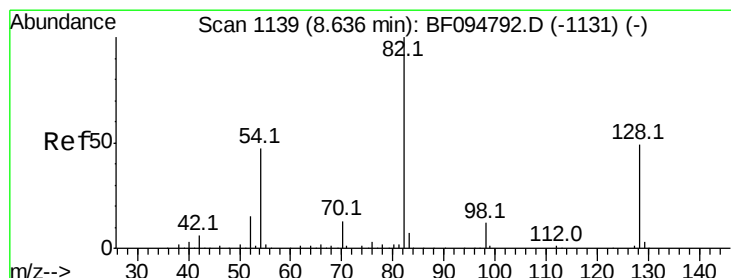
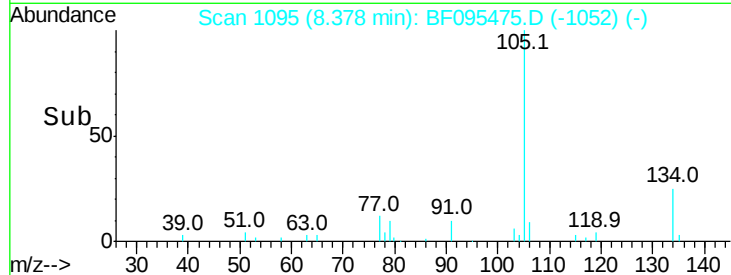
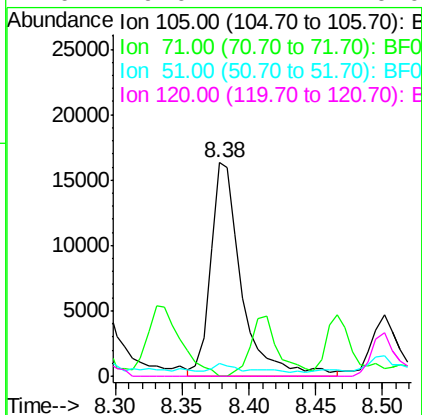
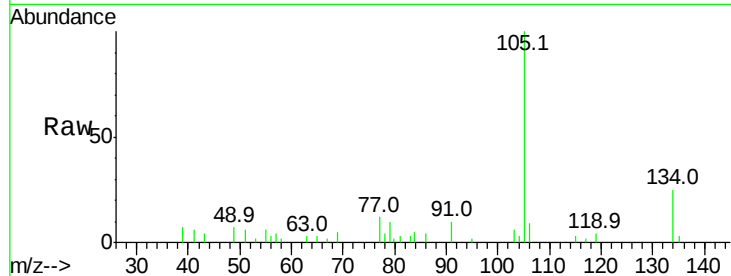
Abundance Ion 136.00 (135.70 to 136.70): E
Ion 137.00 (136.70 to 137.70): E
Ion 54.00 (53.70 to 54.70): BF0
Ion 68.00 (67.70 to 68.70): BF0





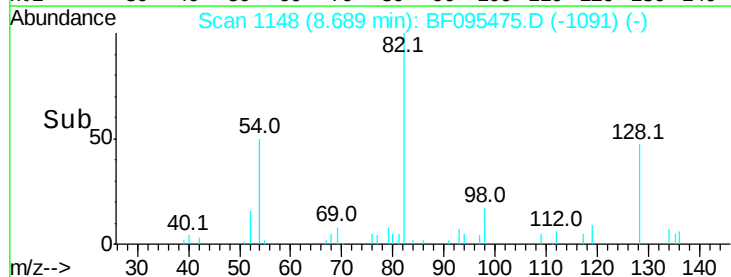
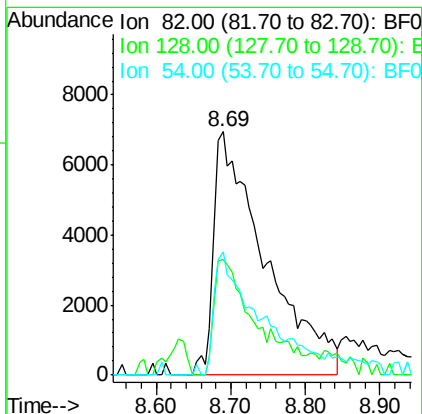
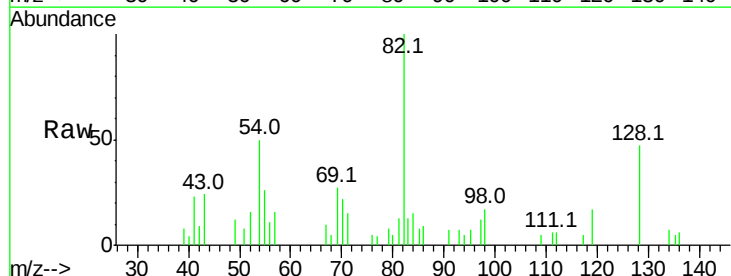
#22
 Acetophenone
 Concen: 3.15 ng
 RT: 8.38 min Scan# 1095
 Delta R.T. -0.05 min
 Lab File: BF095475.D
 Acq: 26 May 2017 22:51

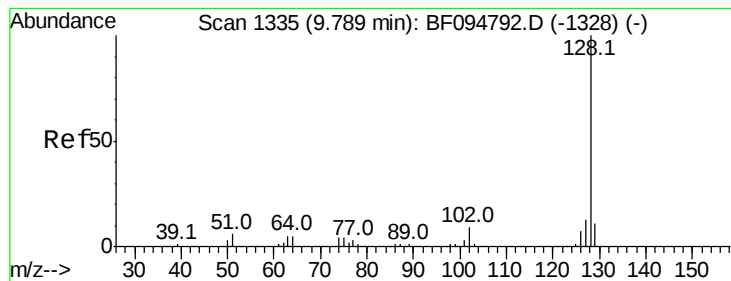
Tot Ion:	105	Resp:	26452
Ion	Ratio	Lower	Upper
105	100		
71	0.0	2.8	4.2#
51	6.0	30.7	46.1#
120	0.0	17.4	26.0#



#23
 Nitrobenzene-d5
 Concen: 6.02 ng
 RT: 8.69 min Scan# 1148
 Delta R.T. 0.04 min
 Lab File: BF095475.D
 Acq: 26 May 2017 22:51

Tgt Ion:	82	Resp:	33449
Ion	Ratio	Lower	Upper
82	100		
128	47.4	34.0	51.0
54	50.4	42.2	63.2





#31

Naphthalene

Concen: 4.06 ng

RT: 9.80 min Scan# 1336

Delta R.T. 0.00 min

Lab File: BF095475.D

Acq: 26 May 2017 22:51

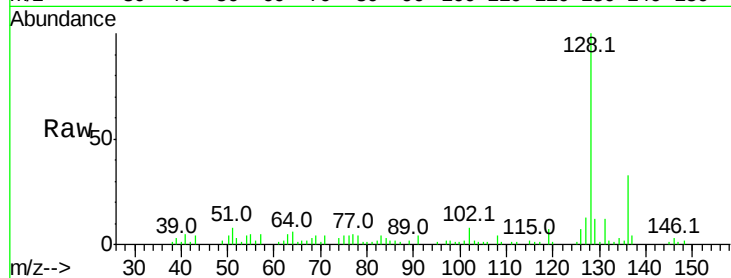
Tot Ion:128 Resp: 71419

Ion Ratio Lower Upper

128 100

129 11.9 9.0 13.6

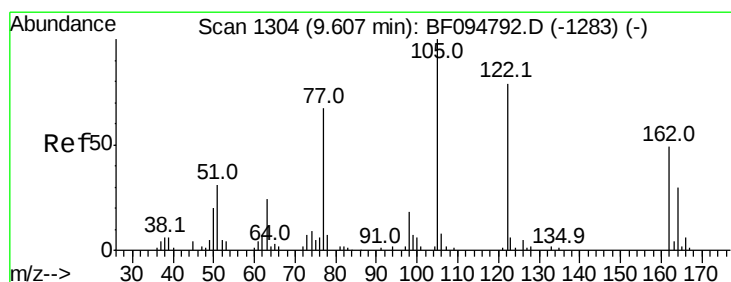
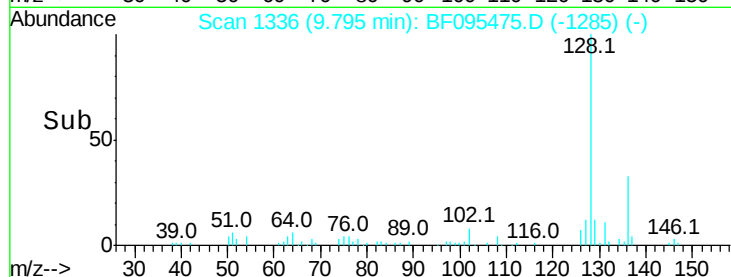
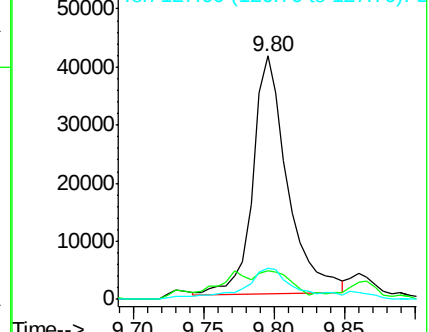
127 13.0 10.8 16.2



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: 9.73 min Scan# 1325

Delta R.T. 0.05 min

Lab File: BF095475.D

Acq: 26 May 2017 22:51

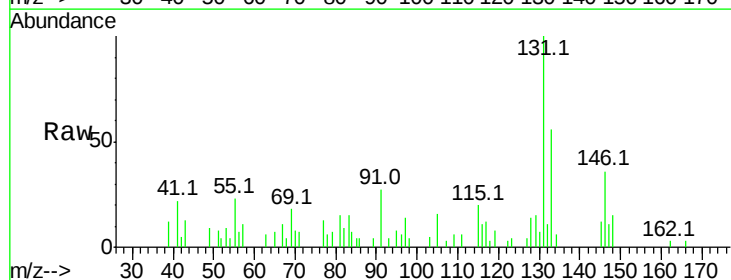
Tgt Ion:122 Resp: 115

Ion Ratio Lower Upper

122 100

105 509.8 103.3 143.3#

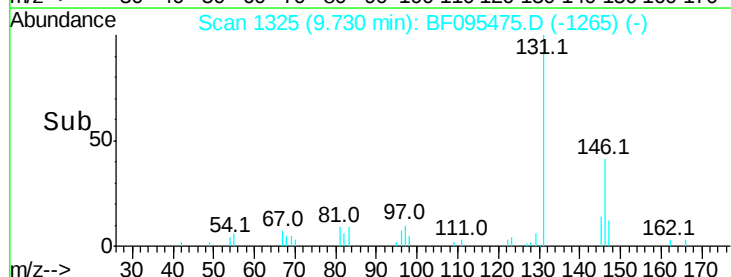
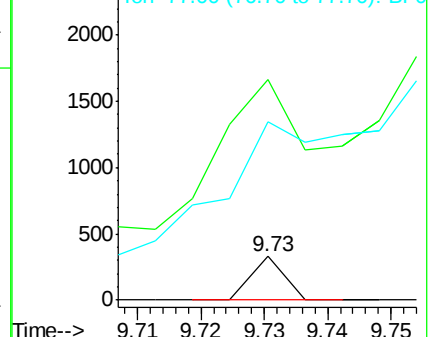
77 411.0 73.7 113.7#

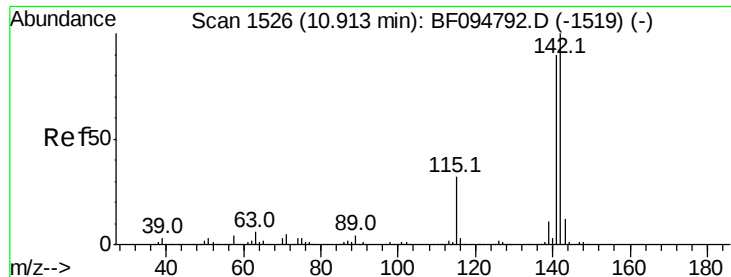


Abundance Ion 122.00 (121.70 to 122.70): E

Ion 105.00 (104.70 to 105.70): E

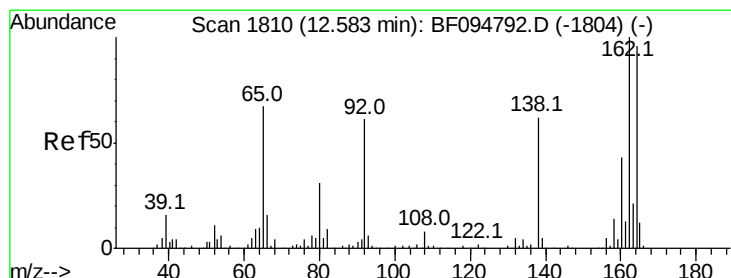
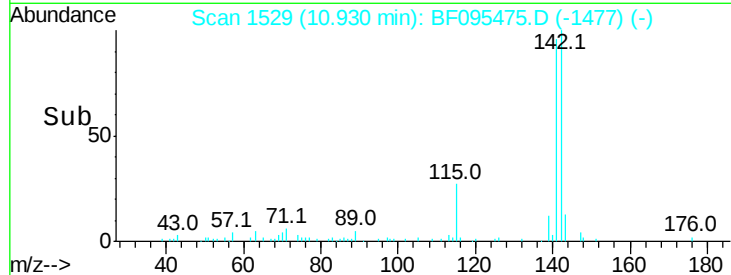
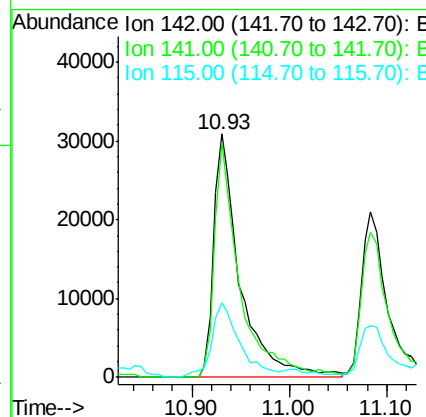
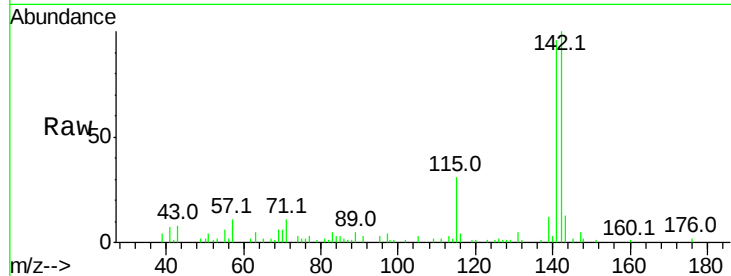
Ion 77.00 (76.70 to 77.70): BF0





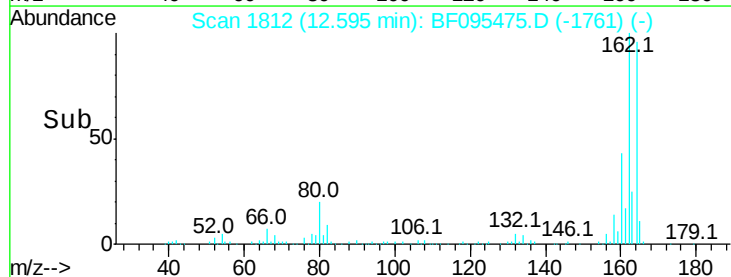
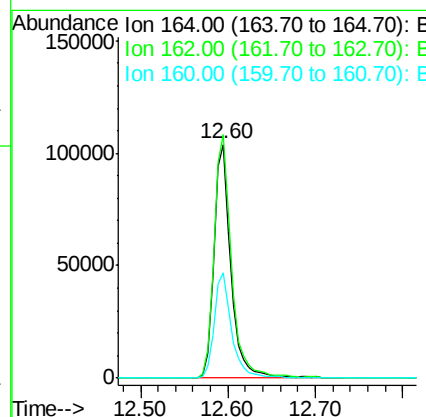
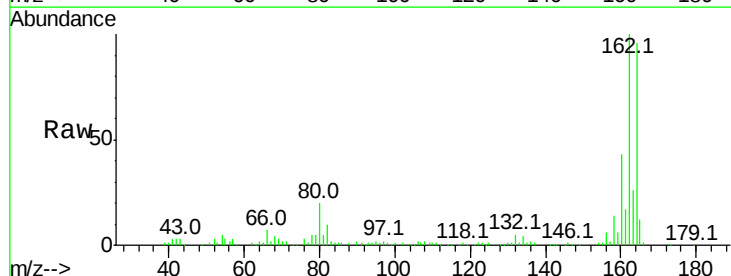
#37
2-Methylnaphthalene
Concen: 5.01 ng
RT: 10.93 min Scan# 1529
Delta R.T. 0.01 min
Lab File: BF095475.D
Acq: 26 May 2017 22:51

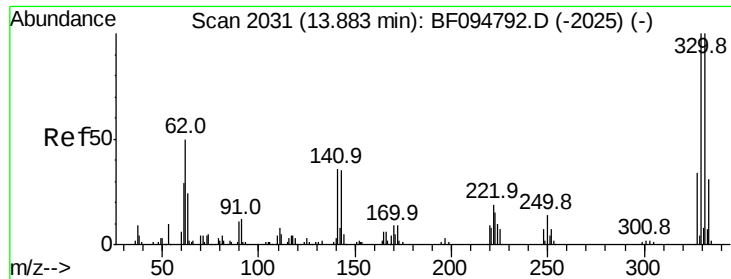
Tot Ion	Ratio	Lower	Upper
142	100		
141	96.1	71.3	106.9
115	30.6	27.1	40.7



#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 12.60 min Scan# 1812
Delta R.T. 0.00 min
Lab File: BF095475.D
Acq: 26 May 2017 22:51

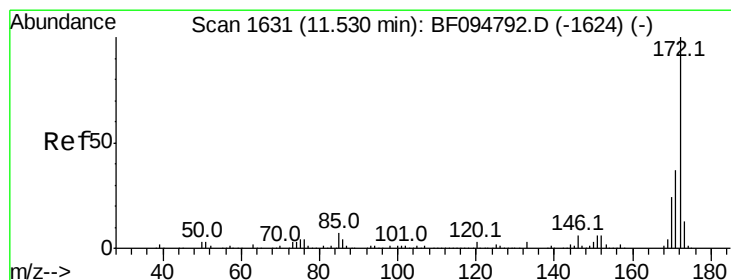
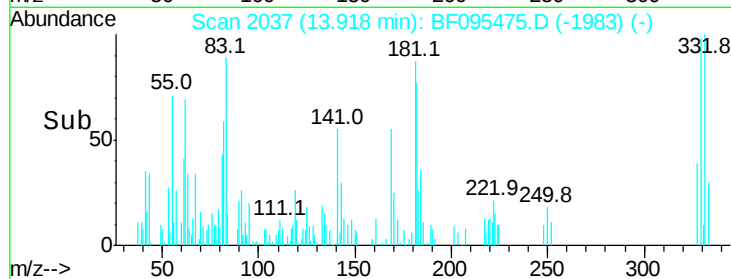
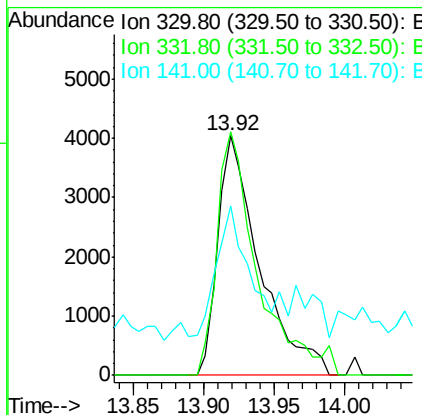
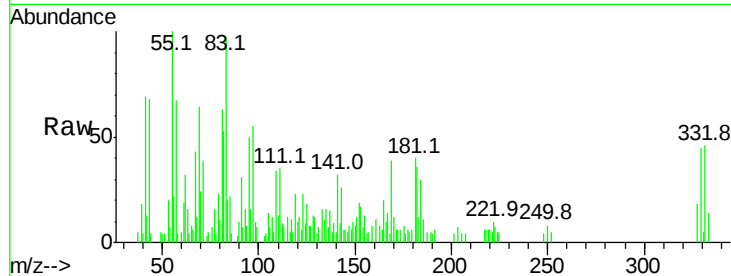
Tgt Ion	Ratio	Lower	Upper
164	100		
162	104.1	82.6	123.8
160	45.0	36.2	54.2





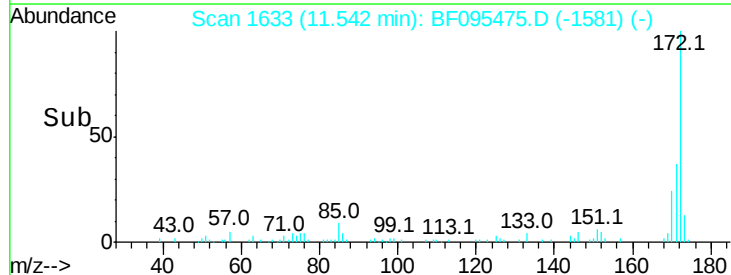
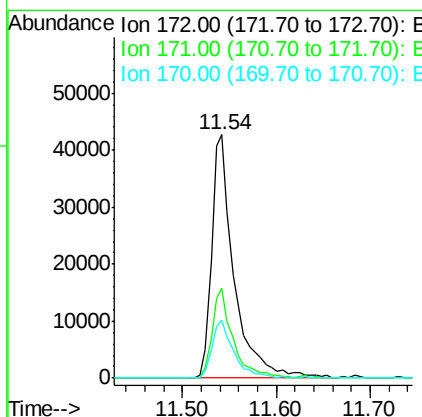
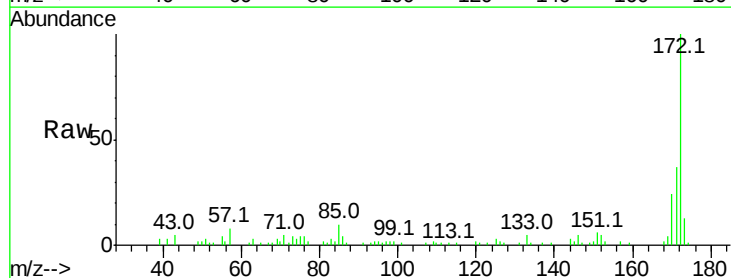
#41
 2,4,6-Tribromophenol
 Concen: 7.25 ng
 RT: 13.92 min Scan# 2037
 Delta R.T. 0.02 min
 Lab File: BF095475.D
 Acq: 26 May 2017 22:51

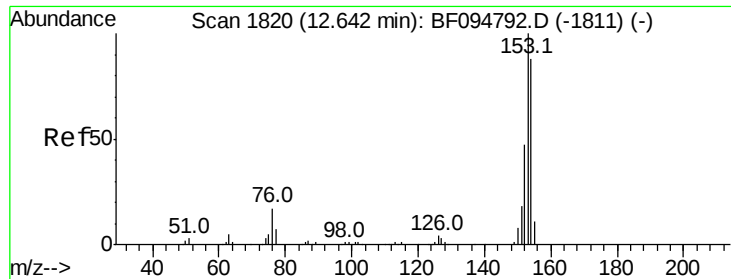
Tot Ion	Ratio	Lower	Upper
330	100		
332	99.1	76.6	115.0
141	42.1	31.4	47.2



#44
 2-Fluorobiphenyl
 Concen: 7.35 ng
 RT: 11.54 min Scan# 1633
 Delta R.T. 0.01 min
 Lab File: BF095475.D
 Acq: 26 May 2017 22:51

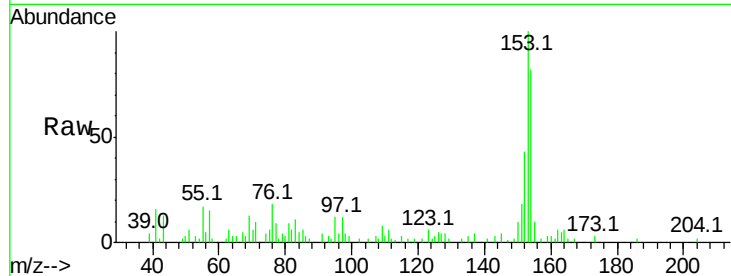
Tgt Ion	Ratio	Lower	Upper
172	100		
171	36.9	29.6	44.4
170	23.6	19.8	29.8



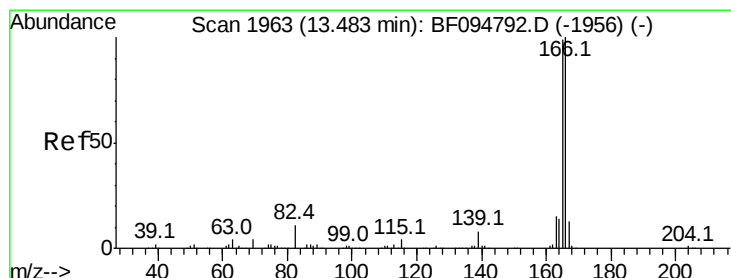
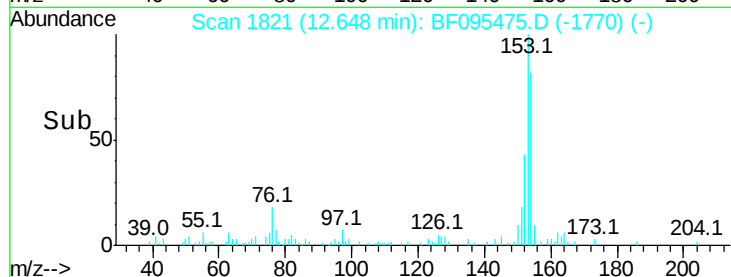
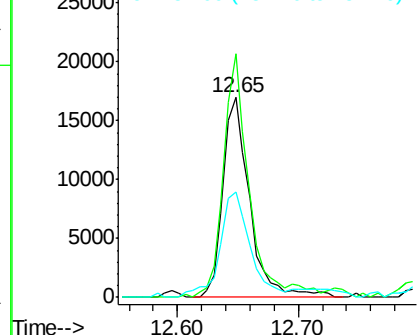


#51
Acenaphthene
Concen: 2.91 ng
RT: 12.65 min Scan# 1821
Delta R.T. 0.00 min
Lab File: BF095475.D
Acq: 26 May 2017 22:51

Tot Ion:154 Resp: 25926
Ion Ratio Lower Upper
154 100
153 121.9 90.5 135.7
152 52.9 43.6 65.4

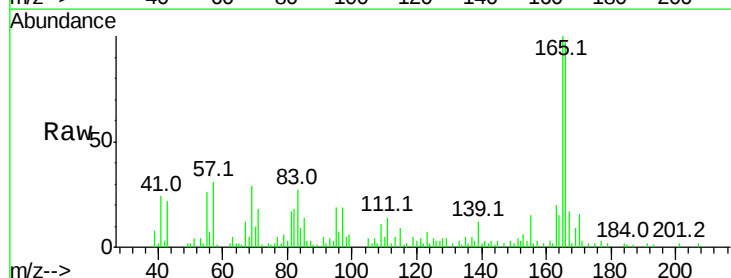


Abundance Ion 154.00 (153.70 to 154.70): E
Ion 153.00 (152.70 to 153.70): E
Ion 152.00 (151.70 to 152.70): E

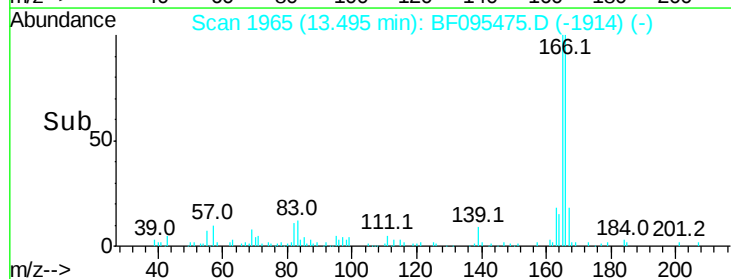
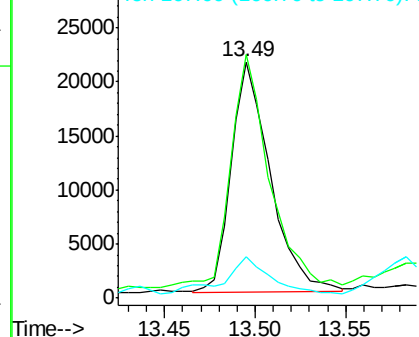


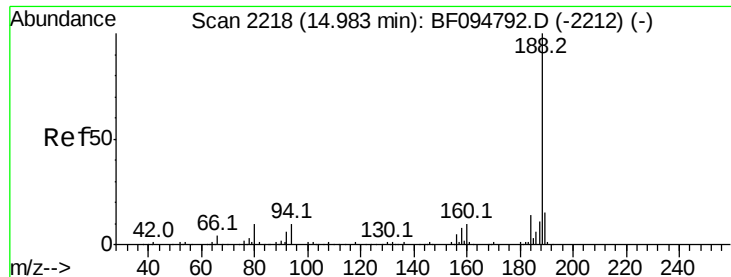
#57
Fluorene
Concen: 2.98 ng
RT: 13.49 min Scan# 1965
Delta R.T. 0.00 min
Lab File: BF095475.D
Acq: 26 May 2017 22:51

Tgt Ion:166 Resp: 31941
Ion Ratio Lower Upper
166 100
165 102.9 78.8 118.2
167 17.6 10.6 16.0#



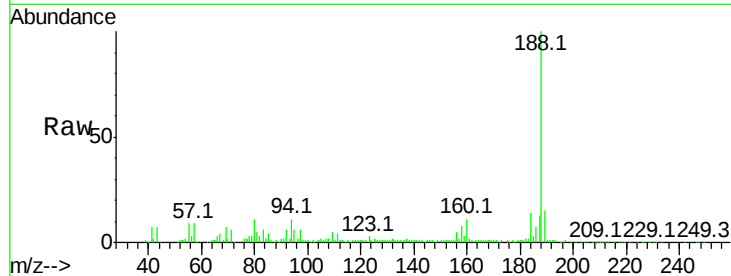
Abundance Ion 166.00 (165.70 to 166.70): E
Ion 165.00 (164.70 to 165.70): E
Ion 167.00 (166.70 to 167.70): E



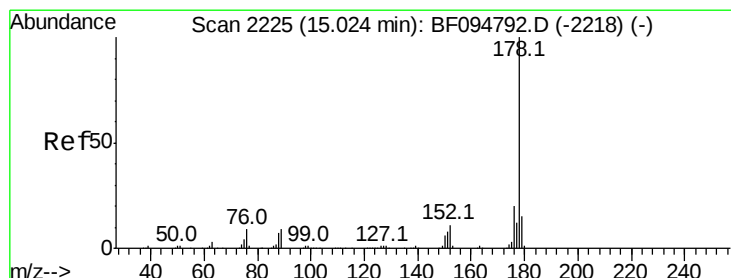
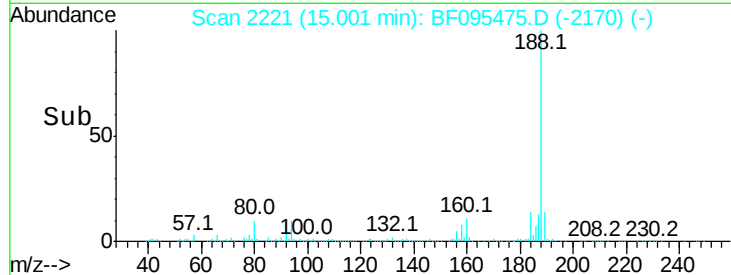
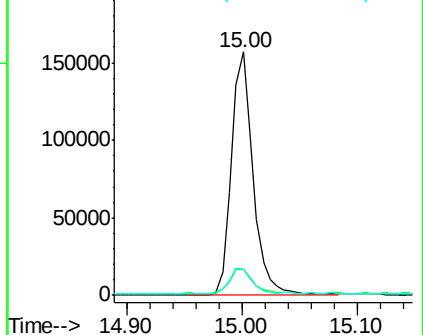


#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 15.00 min Scan# 2221
Delta R.T. 0.00 min
Lab File: BF095475.D
Acq: 26 May 2017 22:51

Tot Ion:188 Resp: 205330
Ion Ratio Lower Upper
188 100
94 10.5 9.4 14.2
80 10.8 10.2 15.2

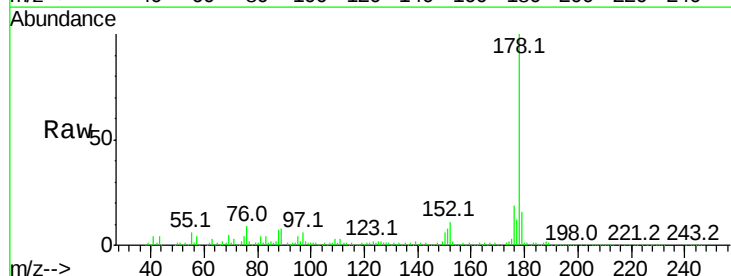


Abundance Ion 188.00 (187.70 to 188.70): E
Ion 94.00 (93.70 to 94.70): BF0
Ion 80.00 (79.70 to 80.70): BF0

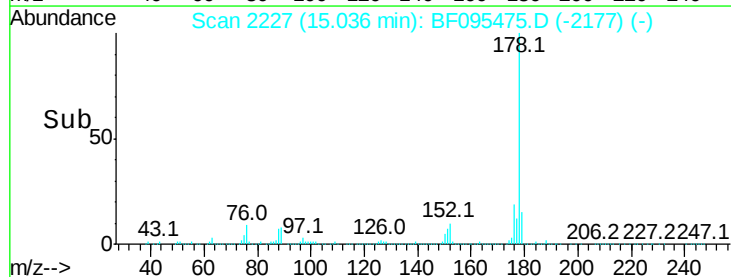
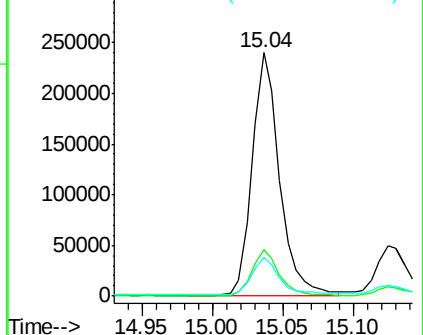


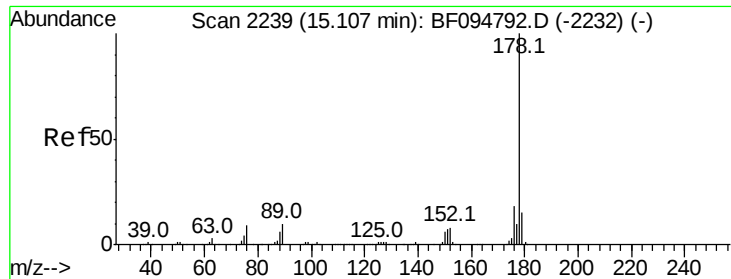
#70
Phenanthrene
Concen: 27.61 ng
RT: 15.04 min Scan# 2227
Delta R.T. -0.01 min
Lab File: BF095475.D
Acq: 26 May 2017 22:51

Tgt Ion:178 Resp: 325770
Ion Ratio Lower Upper
178 100
176 19.3 16.2 24.4
179 15.7 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: 27.03 ng

RT: 15.04 min Scan# 2227

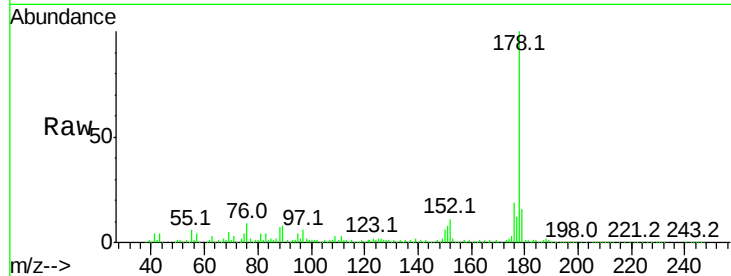
Delta R.T. -0.09 min

Lab File: BF095475.D

Acq: 26 May 2017 22:51

Tot Ion:178 Resp: 325770

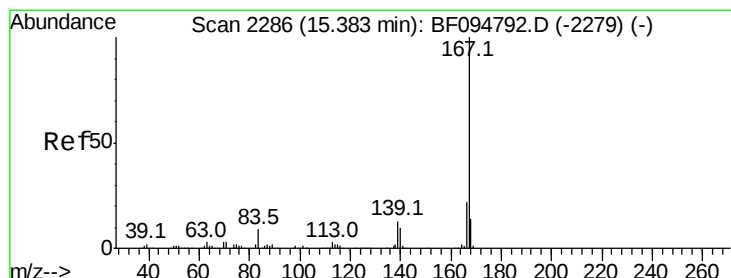
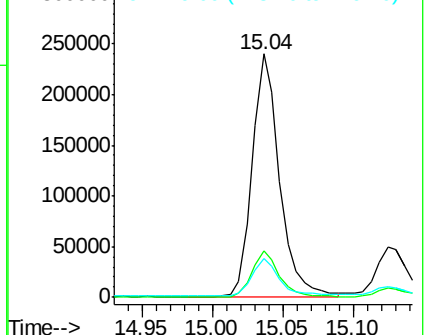
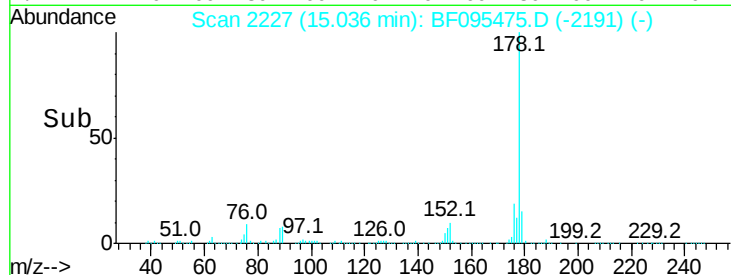
Ion	Ratio	Lower	Upper
178	100		
176	19.3	15.8	23.8
179	15.7	12.7	19.1



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: 2.38 ng

RT: 15.42 min Scan# 2293

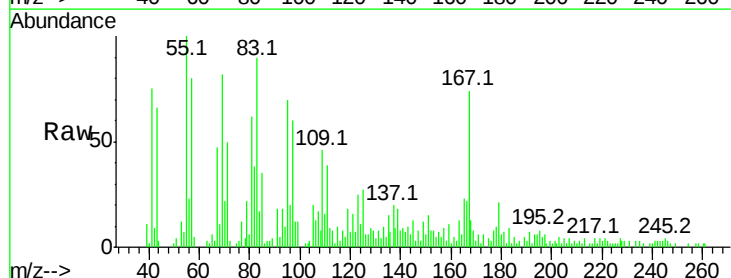
Delta R.T. 0.02 min

Lab File: BF095475.D

Acq: 26 May 2017 22:51

Tgt Ion:167 Resp: 26074

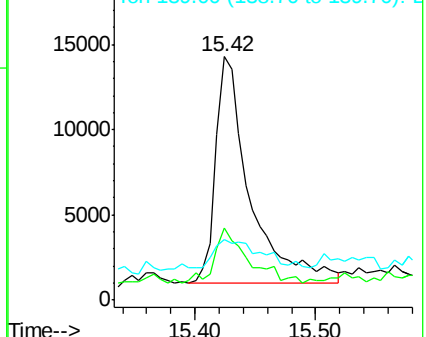
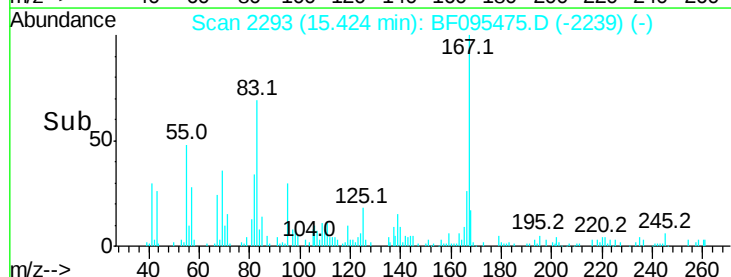
Ion	Ratio	Lower	Upper
167	100		
166	29.8	18.1	27.1#
139	24.8	11.7	17.5#

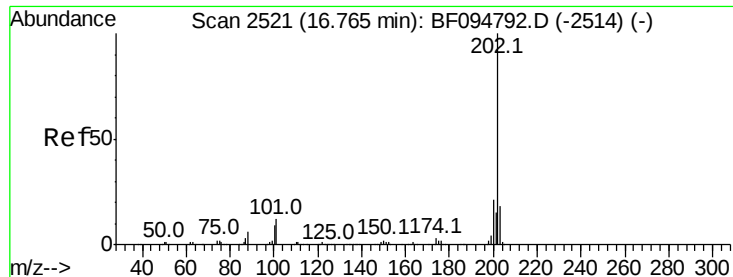


Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E





#74

Fluoranthene

Concen: 37.20 ng

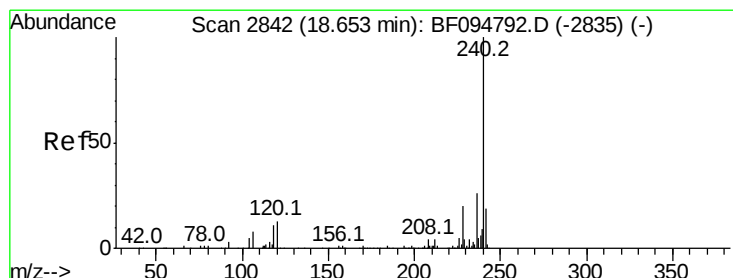
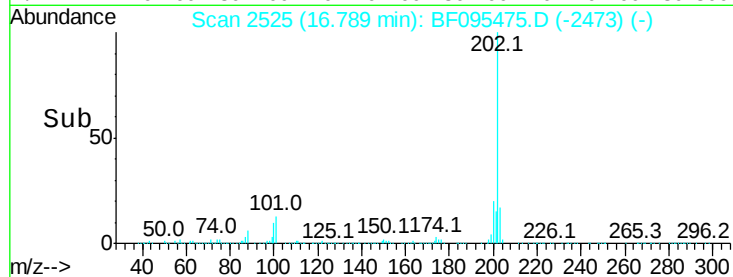
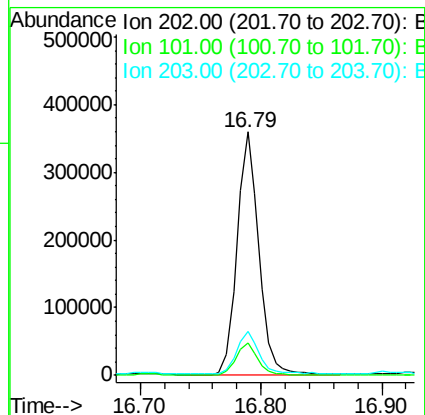
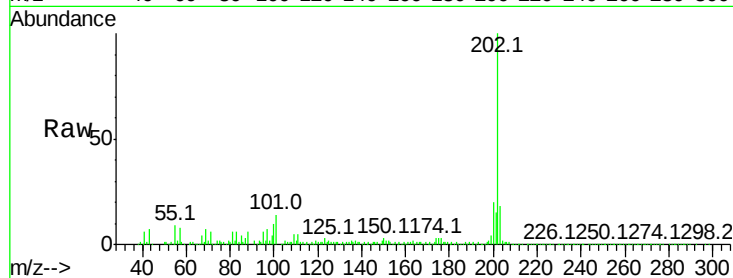
RT: 16.79 min Scan# 2525

Delta R.T. 0.01 min

Lab File: BF095475.D

Acq: 26 May 2017 22:51

Tot Ion:	202	Resp:	450248
Ion	Ratio	Lower	Upper
202	100		
101	13.6	0.0	33.2
203	17.8	0.0	38.1



#75

Chrysene-d12

Concen: 20.00 ng

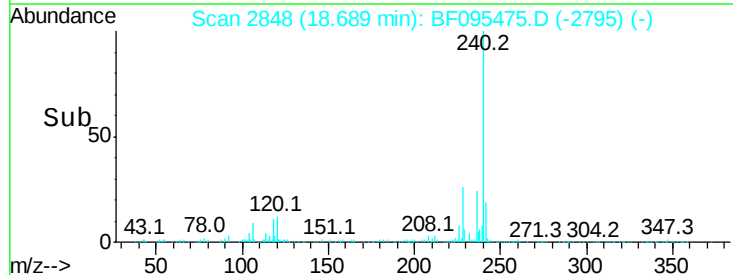
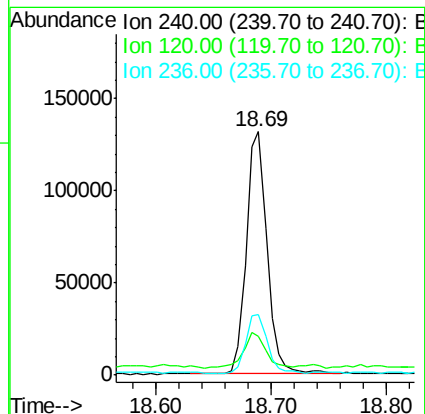
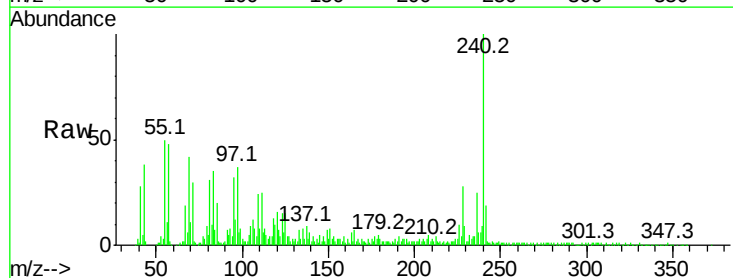
RT: 18.69 min Scan# 2848

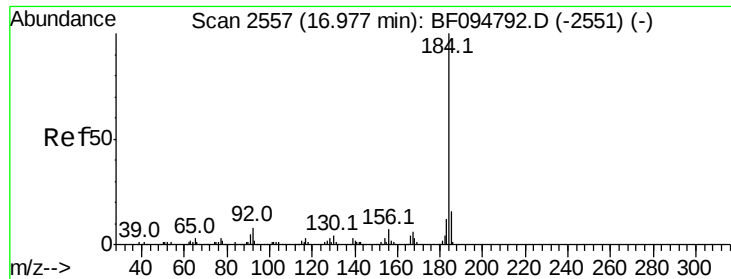
Delta R.T. 0.01 min

Lab File: BF095475.D

Acq: 26 May 2017 22:51

Tgt Ion:	240	Resp:	164320
Ion	Ratio	Lower	Upper
240	100		
120	15.8	5.8	8.8#
236	24.9	20.5	30.7





#76

Benzidine

Concen: 6.65 ng

RT: 17.02 min Scan# 2565

Delta R.T. 0.02 min

Lab File: BF095475.D

Acq: 26 May 2017 22:51

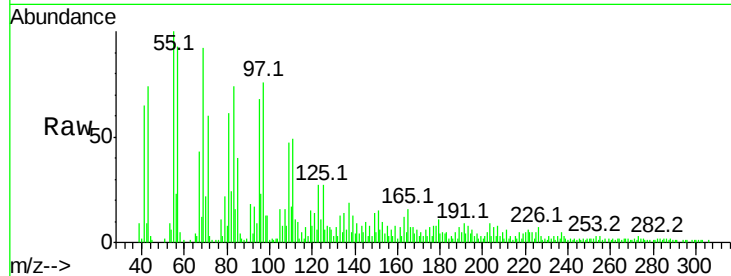
Tot Ion:184 Resp: 315

Ion Ratio Lower Upper

184 100

185 135.2 15.5 23.3#

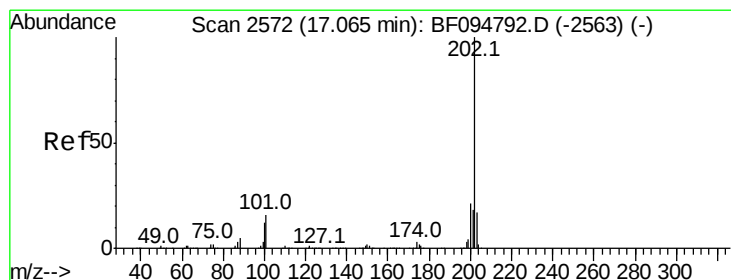
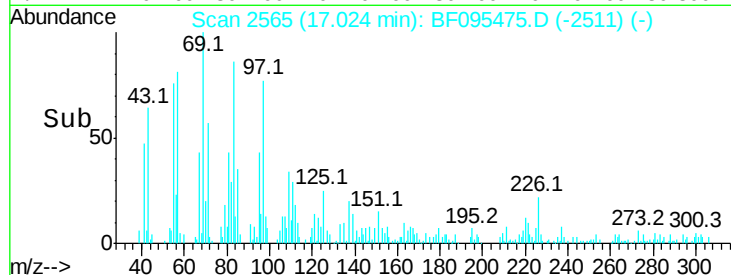
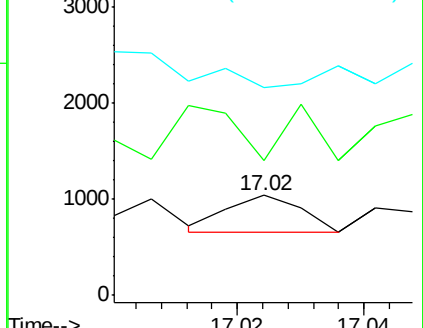
183 208.0 9.8 14.6#



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

Pyrene

Concen: 34.03 ng

RT: 17.09 min Scan# 2576

Delta R.T. 0.00 min

Lab File: BF095475.D

Acq: 26 May 2017 22:51

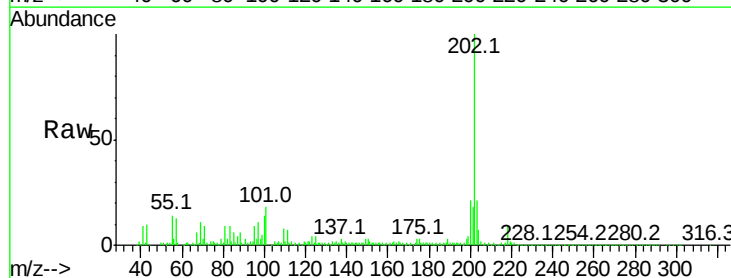
Tgt Ion:202 Resp: 418164

Ion Ratio Lower Upper

202 100

200 20.8 17.6 26.4

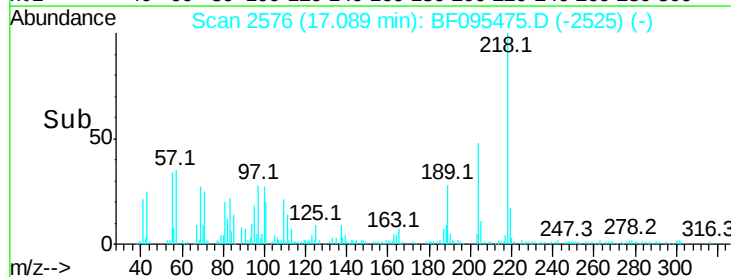
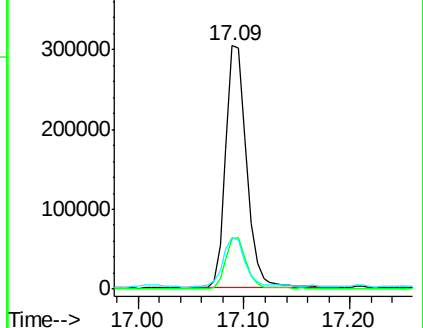
203 21.5 14.4 21.6

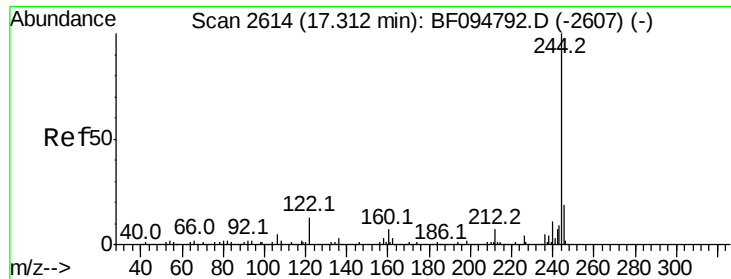


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 5.81 ng

RT: 17.32 min Scan# 2616

Delta R.T. 0.00 min

Lab File: BF095475.D

Acq: 26 May 2017 22:51

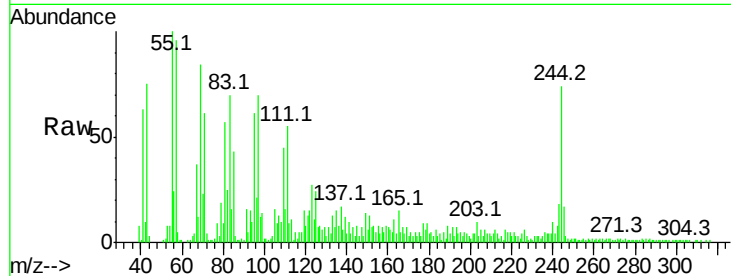
Tot Ion:244 Resp: 43327

Ion Ratio Lower Upper

244 100

212 8.7 6.0 9.0

122 20.6 10.3 15.5#

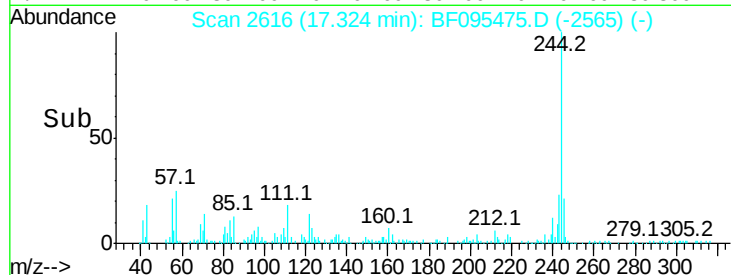


Abundance Ion 244.00 (243.70 to 244.70): E

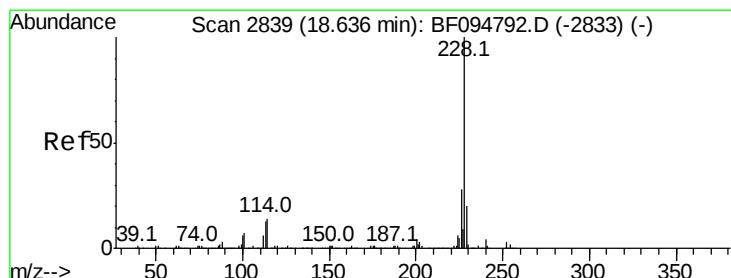
Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

Time-->



Time-->



#80

Benzo(a)anthracene

Concen: 17.19 ng

RT: 18.68 min Scan# 2846

Delta R.T. 0.01 min

Lab File: BF095475.D

Acq: 26 May 2017 22:51

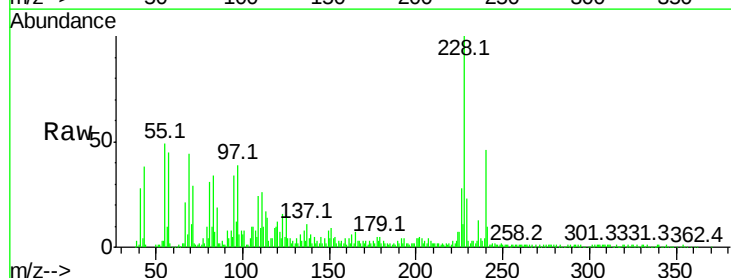
Tgt Ion:228 Resp: 164373

Ion Ratio Lower Upper

228 100

226 28.5 22.6 33.8

229 22.9 16.3 24.5

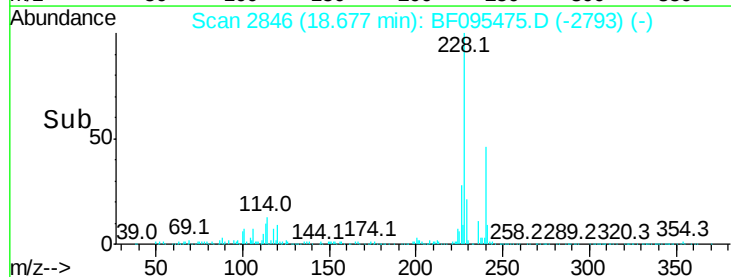


Abundance Ion 228.00 (227.70 to 228.70): E

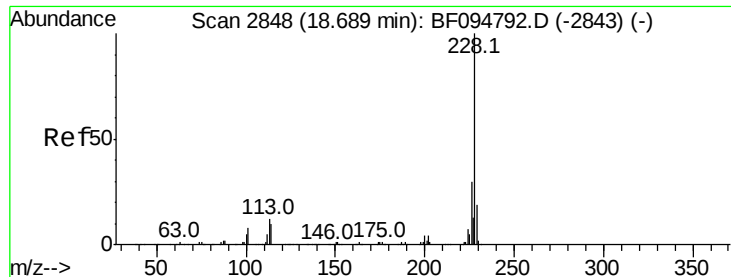
Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

Time-->



Time-->



#82

Chrysene

Concen: 17.45 ng

RT: 18.72 min Scan# 2853

Delta R.T. 0.01 min

Lab File: BF095475.D

Acq: 26 May 2017 22:51

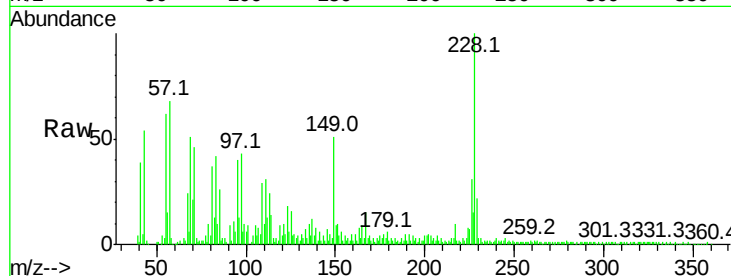
Tot Ion:228 Resp: 161370

Ion	Ratio	Lower	Upper
228	100		
226	31.2	24.9	37.3
229	22.3	15.8	23.6

228 100

226 31.2 24.9 37.3

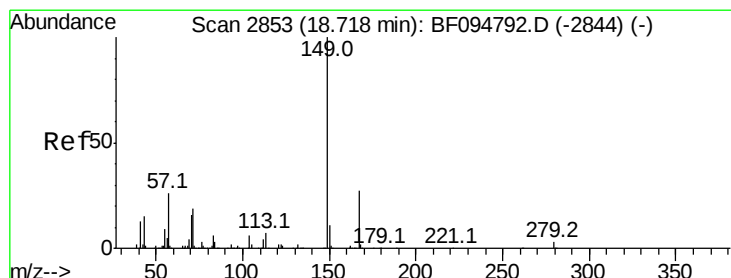
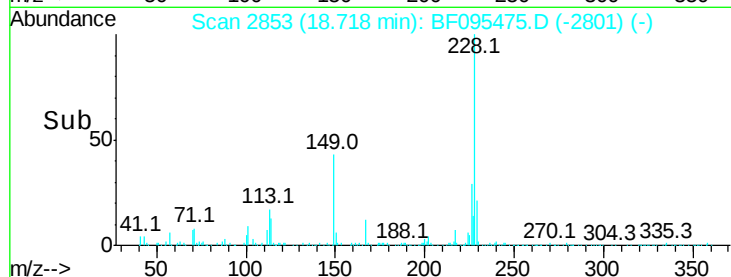
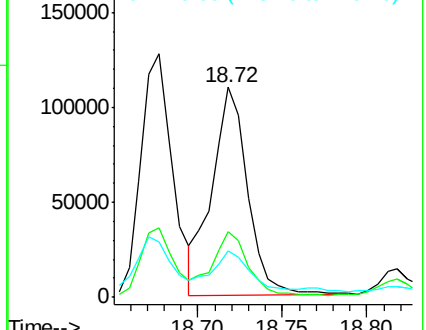
229 22.3 15.8 23.6



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



#83

Bis(2-ethylhexyl)phthalate

Concen: 17.46 ng

RT: 18.73 min Scan# 2855

Delta R.T. 0.01 min

Lab File: BF095475.D

Acq: 26 May 2017 22:51

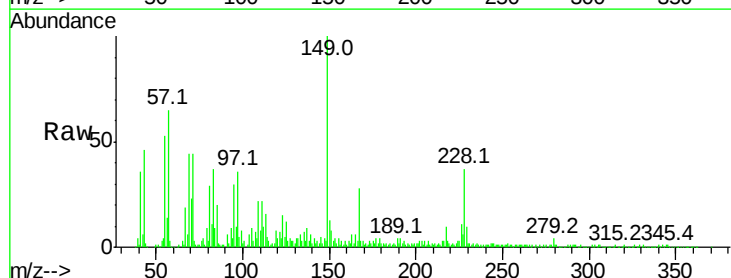
Tgt Ion:149 Resp: 142237

Ion	Ratio	Lower	Upper
149	100		
167	27.9	21.0	31.4
279	3.7	1.9	2.9#

149 100

167 27.9 21.0 31.4

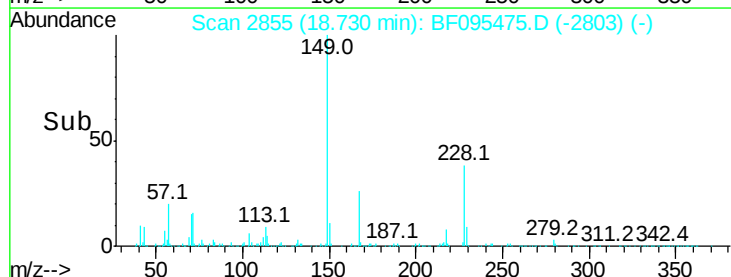
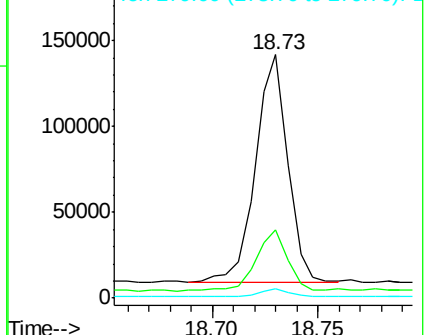
279 3.7 1.9 2.9#

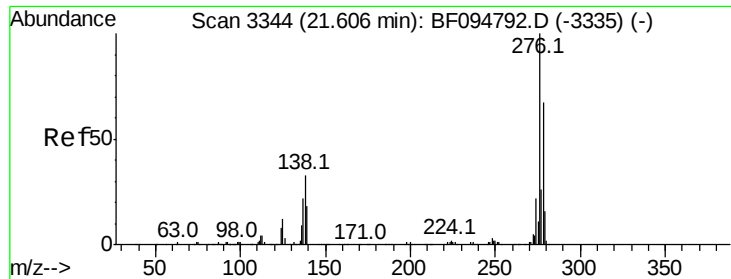


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

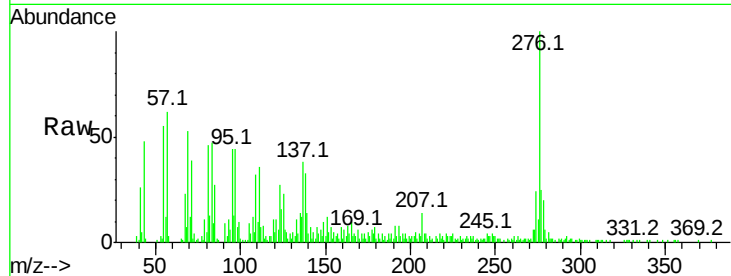
Ion 279.00 (278.70 to 279.70): E



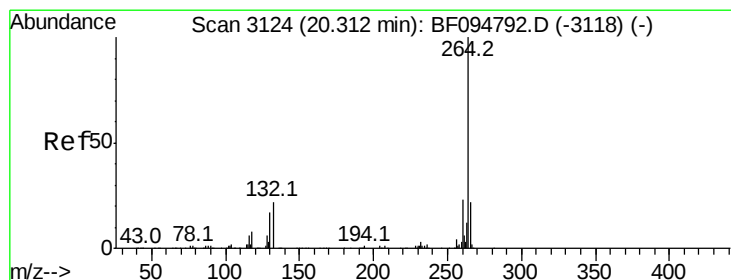
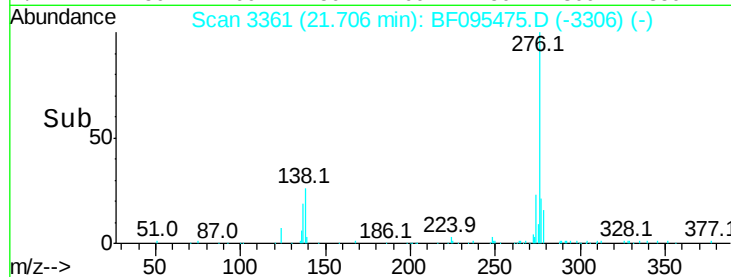
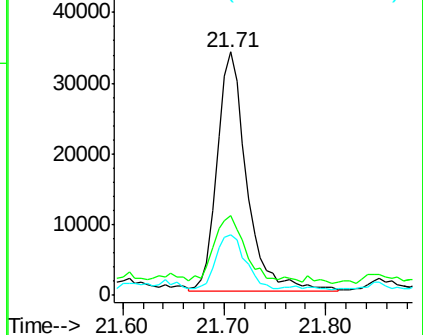


#85
 Indeno(1,2,3-cd)pyrene
 Concen: 9.07 ng
 RT: 21.71 min Scan# 3361
 Delta R.T. 0.02 min
 Lab File: BF095475.D
 Acq: 26 May 2017 22:51

Tot Ion	Ratio	Lower	Upper
276	100		
138	30.5	27.8	41.6
277	22.6	20.2	30.4

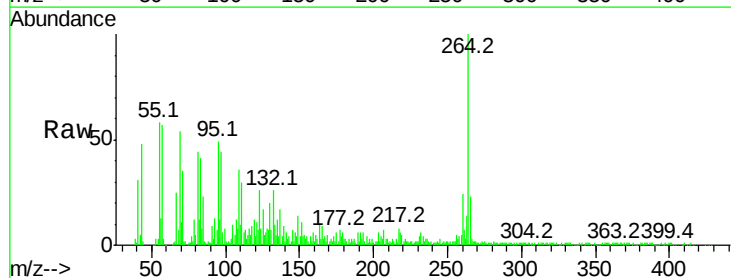


Abundance Ion 276.00 (275.70 to 276.70): E
 Ion 138.00 (137.70 to 138.70): E
 Ion 277.00 (276.70 to 277.70): E

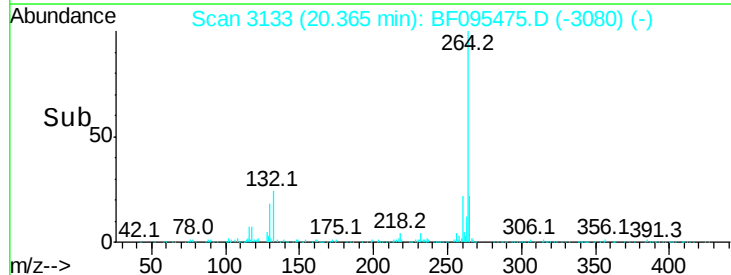
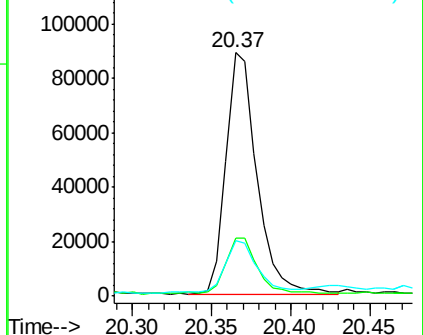


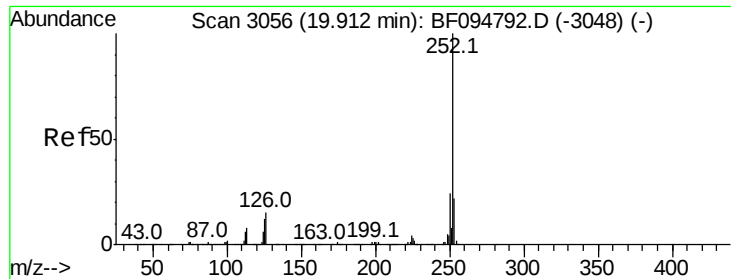
#86
 Perylene-d12
 Concen: 20.00 ng
 RT: 20.37 min Scan# 3133
 Delta R.T. 0.01 min
 Lab File: BF095475.D
 Acq: 26 May 2017 22:51

Tgt Ion	Ratio	Lower	Upper
264	100		
260	23.6	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: 30.81 ng

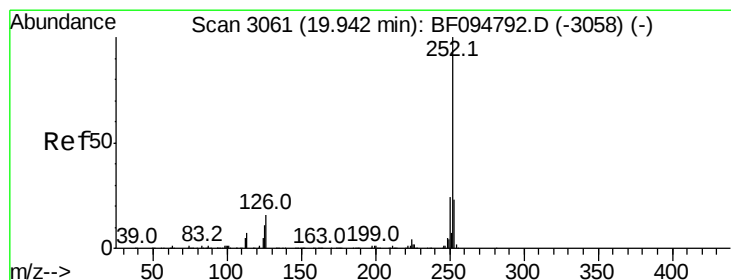
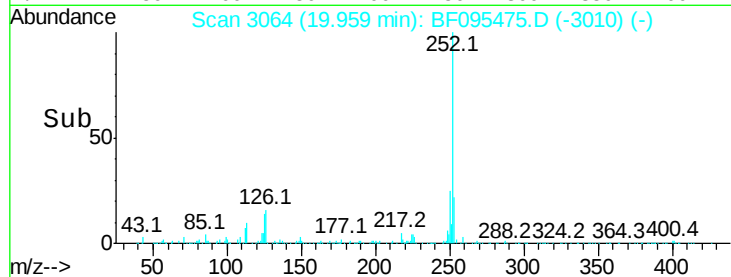
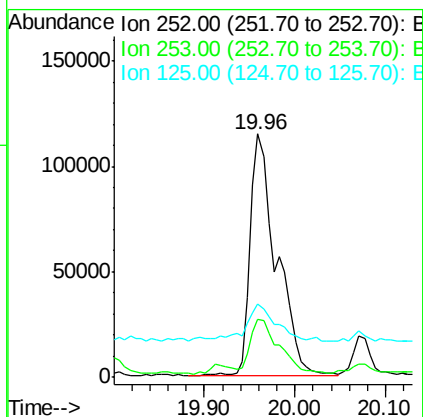
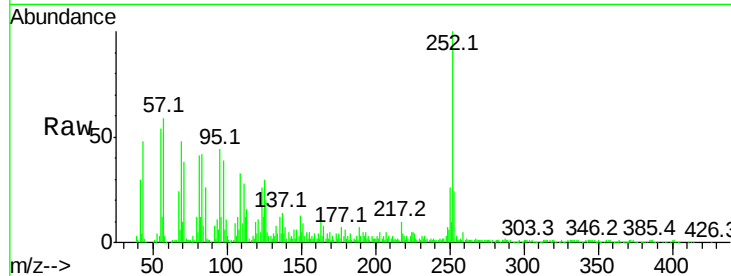
RT: 19.96 min Scan# 3064

Delta R.T. 0.02 min

Lab File: BF095475.D

Acq: 26 May 2017 22:51

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.8	18.1	27.1
125	30.0	9.8	14.8



#88

Benzo(k)fluoranthene

Concen: 32.16 ng

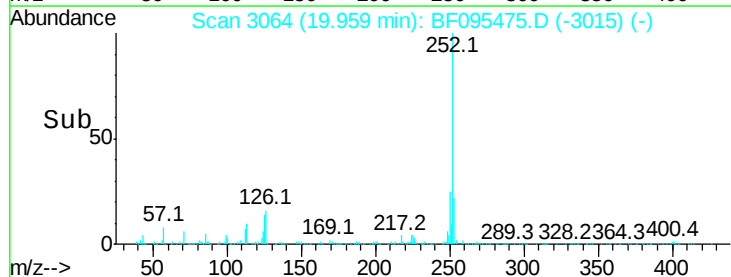
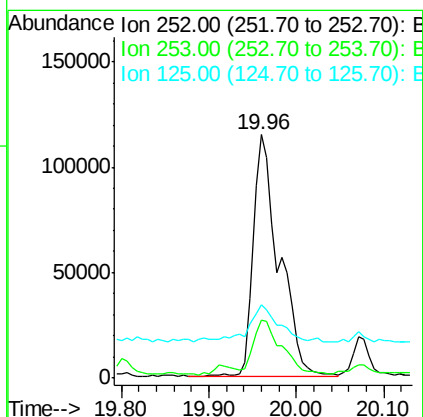
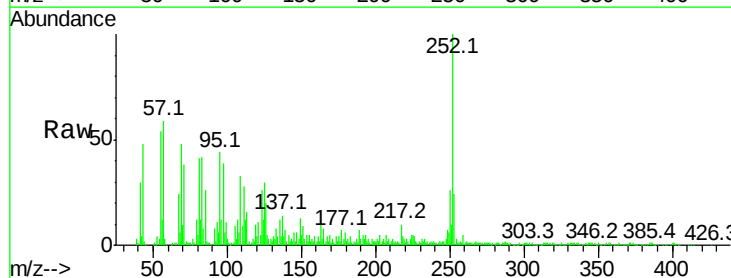
RT: 19.96 min Scan# 3064

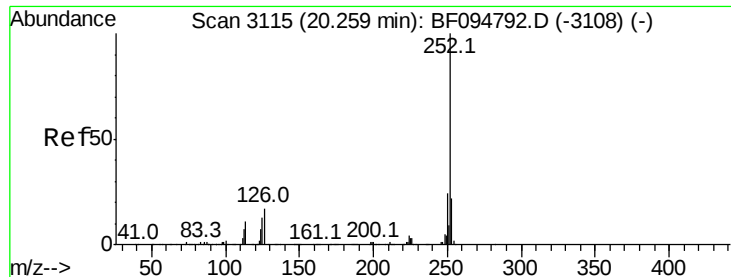
Delta R.T. -0.01 min

Lab File: BF095475.D

Acq: 26 May 2017 22:51

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.8	18.4	27.6
125	30.0	13.1	19.7





#89

Benzo(a)pyrene

Concen: 15.94 ng

RT: 20.31 min Scan# 3124

Delta R.T. 0.01 min

Lab File: BF095475.D

Acq: 26 May 2017 22:51

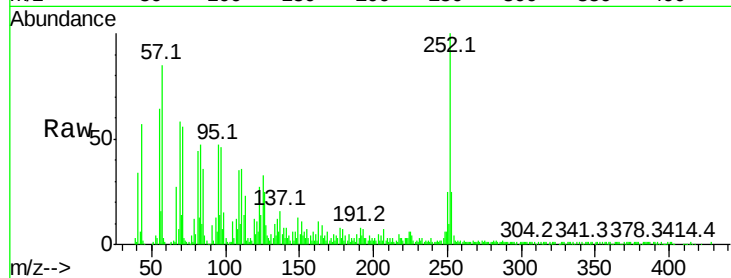
Tot Ion:252 Resp: 109468

Ion Ratio Lower Upper

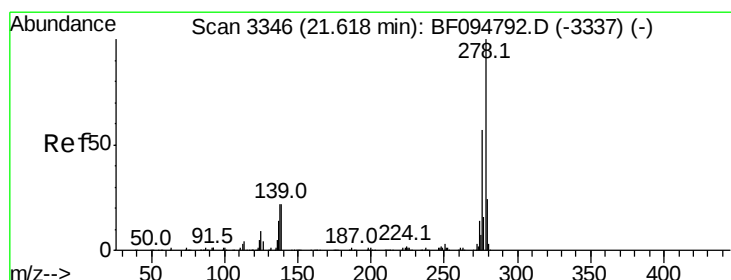
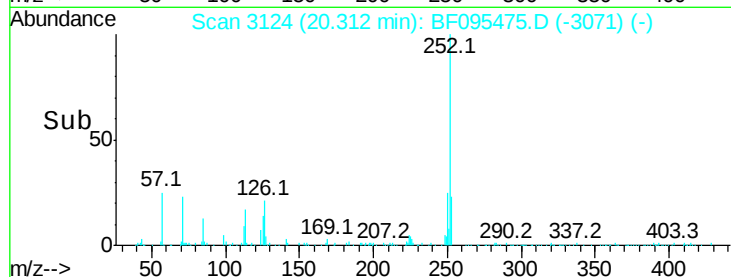
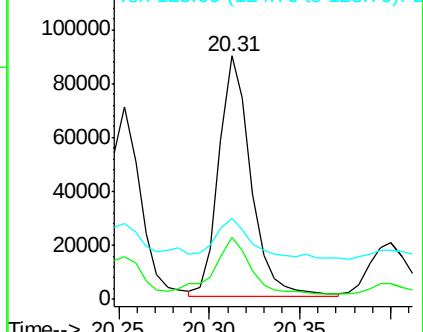
252 100

253 25.4 17.5 26.3

125 33.2 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: 3.07 ng

RT: 21.70 min Scan# 3360

Delta R.T. 0.02 min

Lab File: BF095475.D

Acq: 26 May 2017 22:51

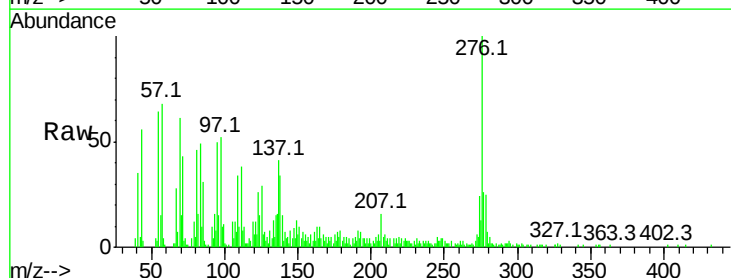
Tgt Ion:278 Resp: 17426

Ion Ratio Lower Upper

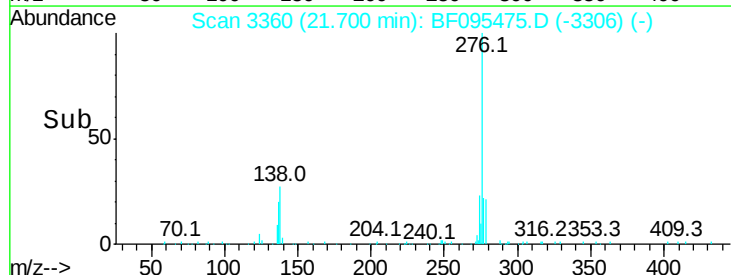
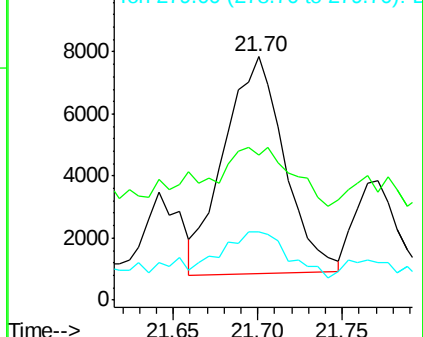
278 100

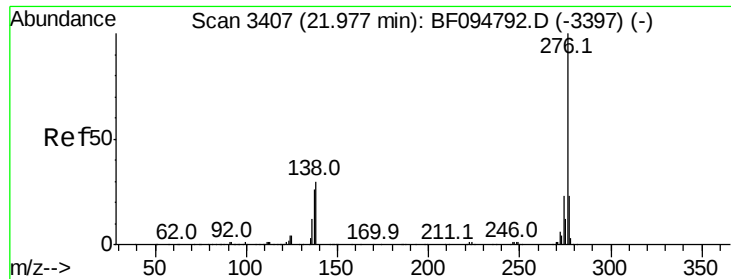
139 59.6 16.6 24.8#

279 28.1 19.3 28.9



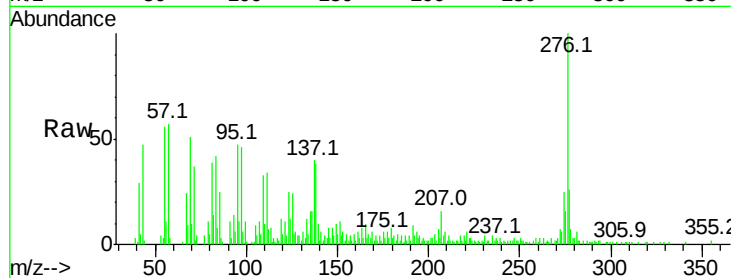
Abundance Ion 278.00 (277.70 to 278.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 279.00 (278.70 to 279.70): E





#91
 Benzo(a,h,i)perylene
 Concen: 11.77 ng
 RT: 22.09 min Scan# 3427
 Delta R.T. 0.02 min
 Lab File: BF095475.D
 Acq: 26 May 2017 22:51

Tot Ion	Ratio	Lower	Upper
276	100		
277	25.7	18.6	28.0
138	38.4	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

