

Data Path : Z:\HPCHEM1\BNA F\DATA\BF050217\
 Data File : BF094816.D
 Acq On : 3 May 2017 3:20
 Operator : SJ/MA
 Sample : I2920-06 5X
 Misc :
 ALS Vial : 20 Sample Multiplier: 1

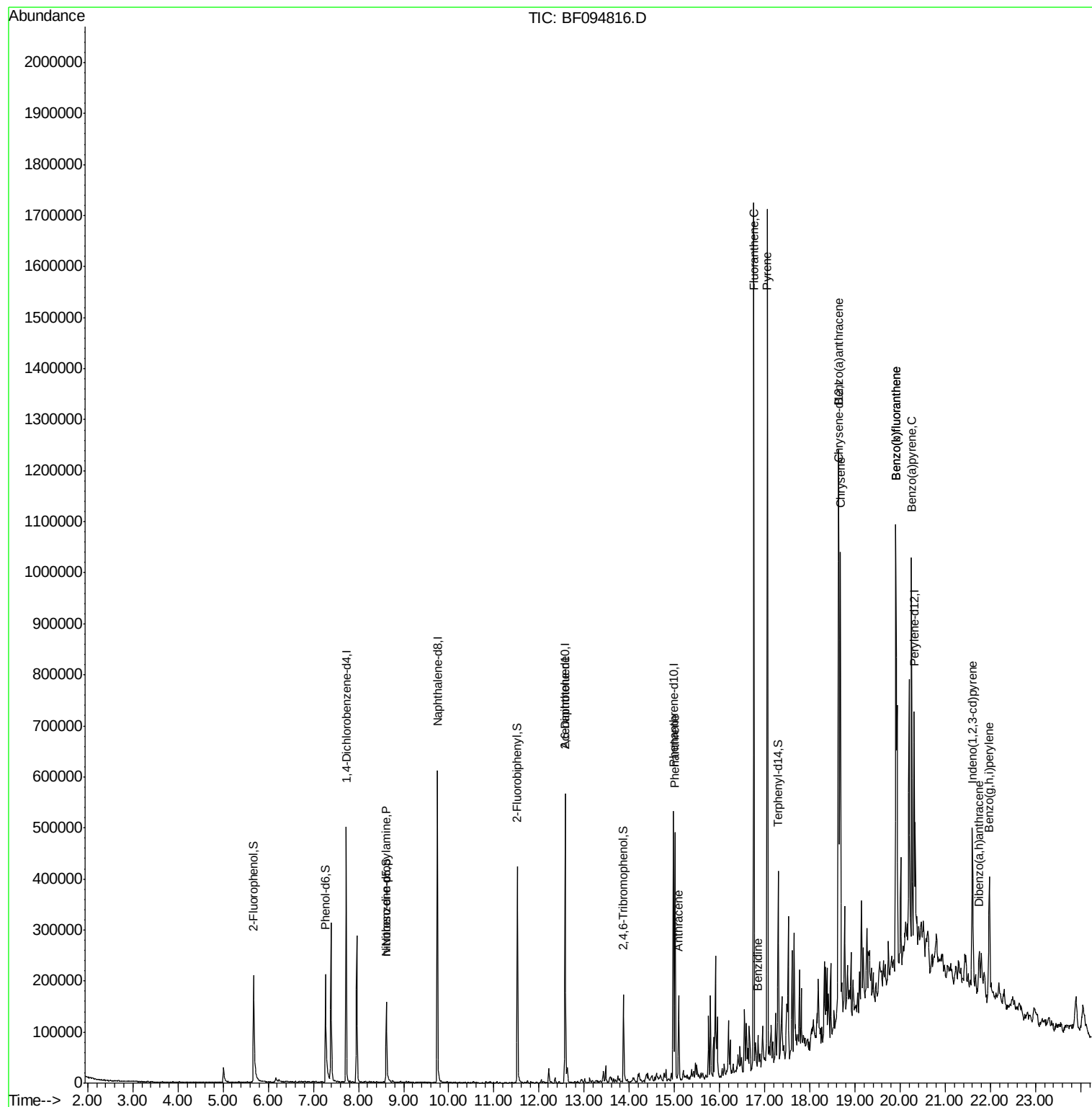
Quant Time: May 03 03:57:09 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF050217.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue May 02 17:18:57 2017
 Response via : Initial Calibration

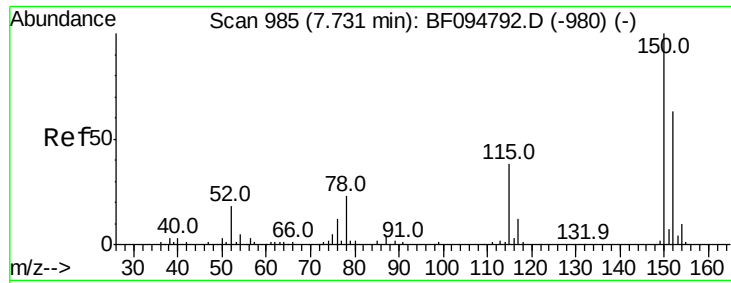
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.72	152	99250	20.00	ng	0.00
21) Naphthalene-d8	9.75	136	373345	20.00	ng	0.00
38) Acenaphthene-d10	12.58	164	154051	20.00	ng	0.00
63) Phenanthrene-d10	14.98	188	258617	20.00	ng	0.00
75) Chrysene-d12	18.65	240	221478	20.00	ng	0.00
86) Perylene-d12	20.31	264	179833	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.68	112	122267	20.54	ng	0.00
7) Phenol-d6	7.27	99	148146	20.74	ng	-0.01
23) Nitrobenzene-d5	8.61	82	86131	14.55	ng	-0.02
41) 2,4,6-Tribromophenol	13.87	330	23771	18.84	ng	-0.01
44) 2-Fluorobiphenyl	11.52	172	181827	16.99	ng	-0.01
78) Terphenyl-d14	17.30	244	119400	11.87	ng	-0.01
Target Compounds						Qvalue
19) n-Nitroso-di-n-propylamine	8.61	70	10991	2.28	ng	# 70
50) 2,6-Dinitrotoluene	12.58	165	16774	6.50	ng	# 31
70) Phenanthrene	15.01	178	233053	15.68	ng	98
71) Anthracene	15.09	178	84830	5.59	ng	98
74) Fluoranthene	16.76	202	828829	54.38	ng	99
76) Benzidine	16.85	184	235	6.62	ng	# 62
77) Pyrene	17.06	202	772999	46.67	ng	96
80) Benzo(a)anthracene	18.64	228	459466	35.65	ng	100
82) Chrysene	18.68	228	403517	32.38	ng	98
85) Indeno(1,2,3-cd)pyrene	21.60	276	171044	16.90	ng	96
87) Benzo(b)fluoranthene	19.91	252	662220	59.59	ng	# 97
88) Benzo(k)fluoranthene	19.91	252	662220	61.78	ng	98
89) Benzo(a)pyrene	20.25	252	350868	34.22	ng	97
90) Dibenzo(a,h)anthracene	21.75	278	40438	4.78	ng	94
91) Benzo(a,h,i)perylene	21.98	276	160438	19.31	ng	97

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

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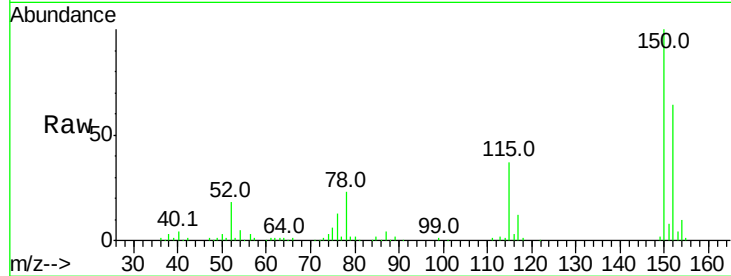




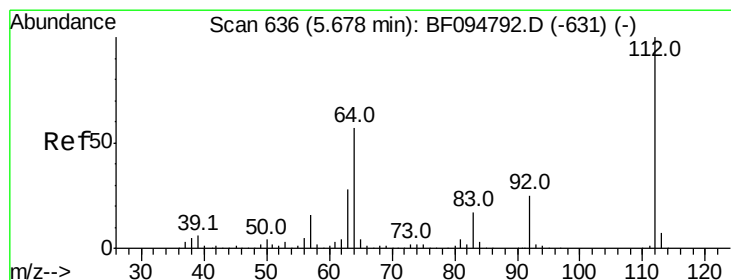
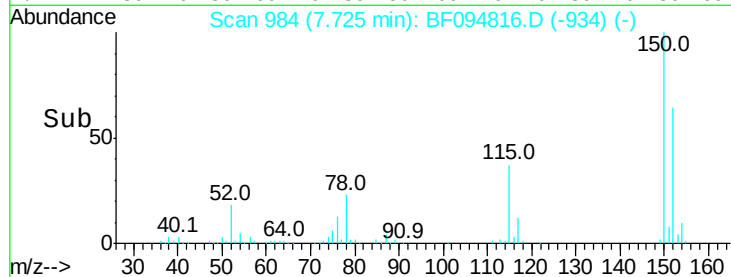
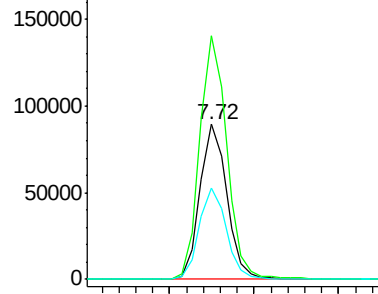
#1

1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 7.72 min Scan# 984
Delta R.T. -0.01 min
Lab File: BF094816.D
Acq: 3 May 2017 3:20

Tot Ion:152 Resp: 99250
Ion Ratio Lower Upper
152 100
150 157.4 126.2 189.2
115 59.0 52.2 78.2



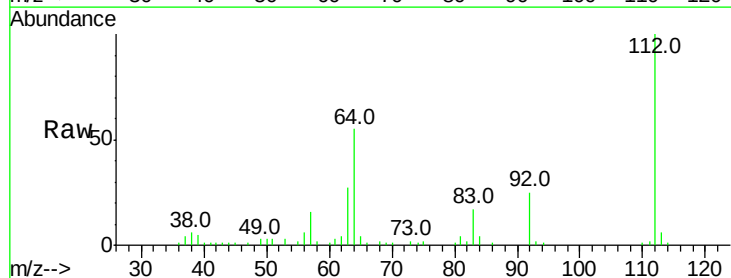
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



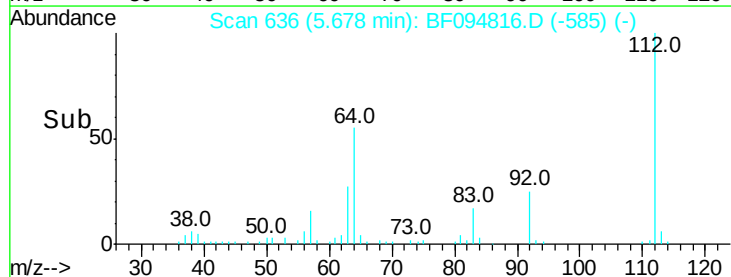
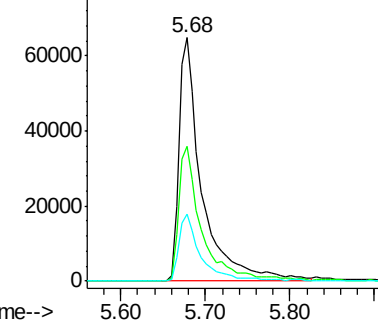
#5

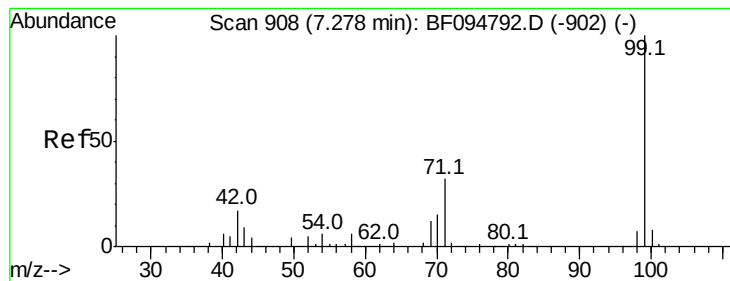
2-Fluorophenol
Concen: 20.54 ng
RT: 5.68 min Scan# 636
Delta R.T. 0.00 min
Lab File: BF094816.D
Acq: 3 May 2017 3:20

Tgt Ion:112 Resp: 122267
Ion Ratio Lower Upper
112 100
64 55.2 46.0 69.0
63 27.4 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: 20.74 ng

RT: 7.27 min Scan# 906

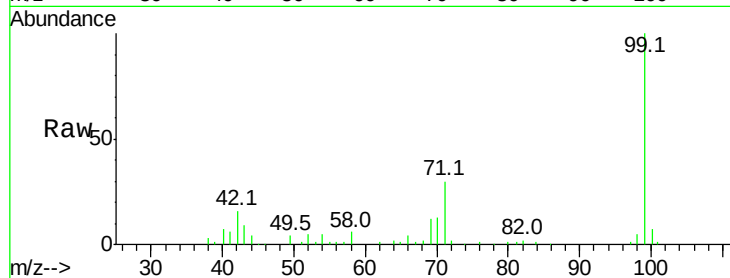
Delta R.T. -0.01 min

Lab File: BF094816.D

Acq: 3 May 2017 3:20

Tot Ion: 99 Resp: 148146

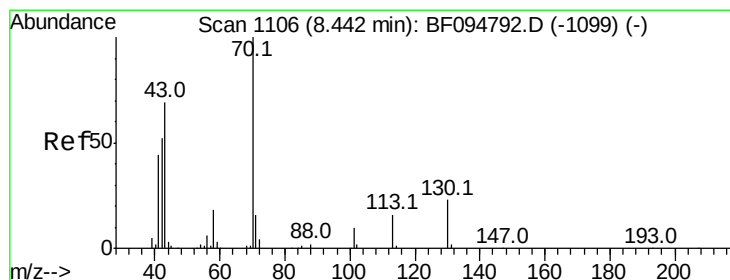
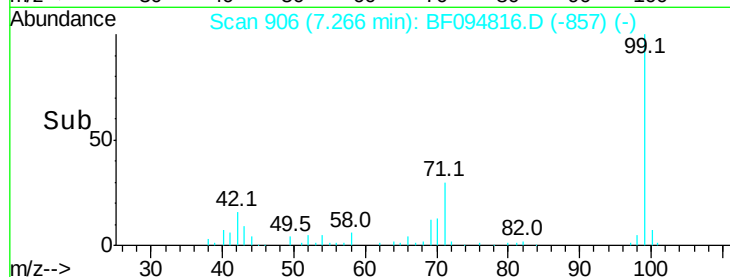
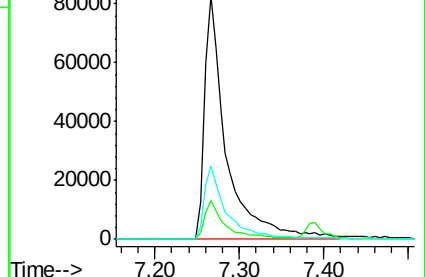
Ion	Ratio	Lower	Upper
99	100		
42	16.0	13.5	20.3
71	30.1	24.5	36.7



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: 2.28 ng

RT: 8.61 min Scan# 1135

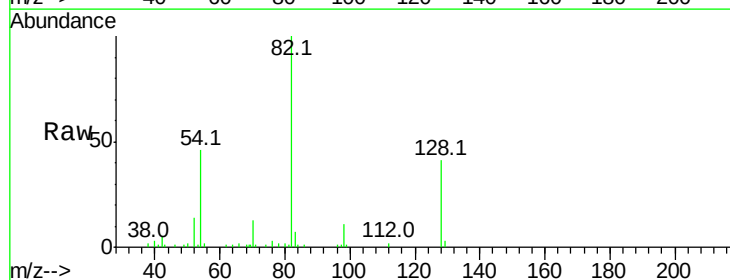
Delta R.T. 0.17 min

Lab File: BF094816.D

Acq: 3 May 2017 3:20

Tgt Ion: 70 Resp: 10991

Ion	Ratio	Lower	Upper
70	100		
42	39.4	47.2	70.8#
101	0.0	7.2	10.8#
130	0.0	15.9	23.9#

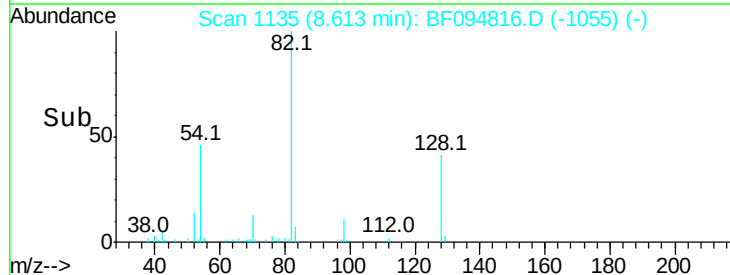
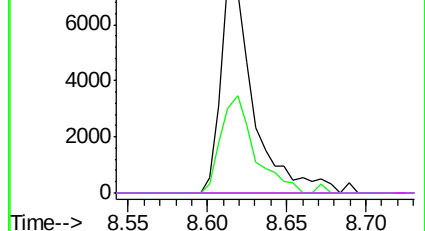


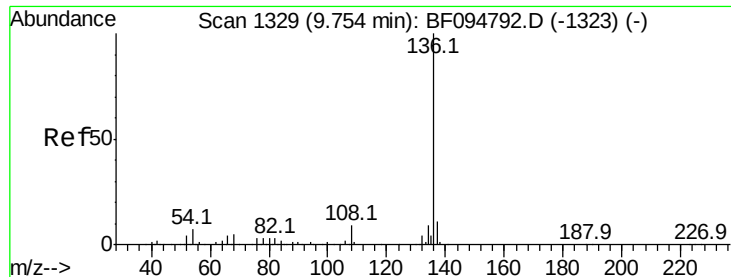
Abundance Ion 70.00 (69.70 to 70.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 101.00 (100.70 to 101.70): BF0

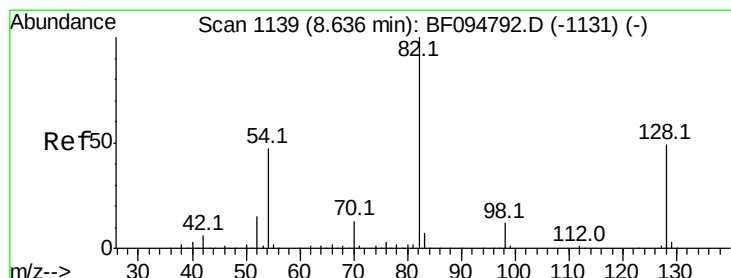
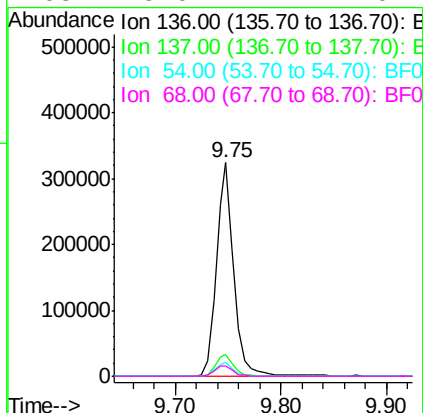
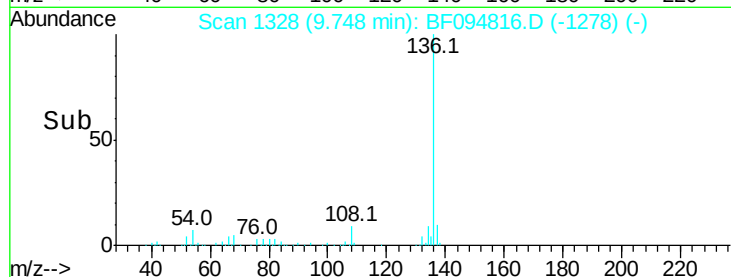
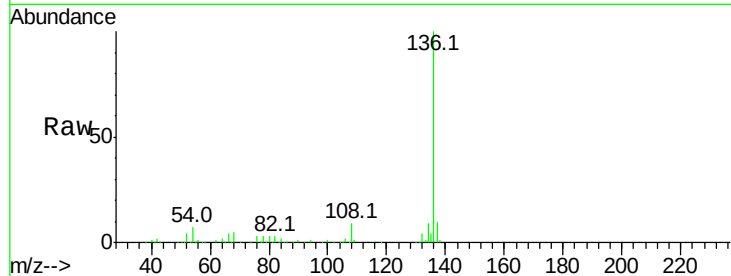
Ion 130.00 (129.70 to 130.70): BF0





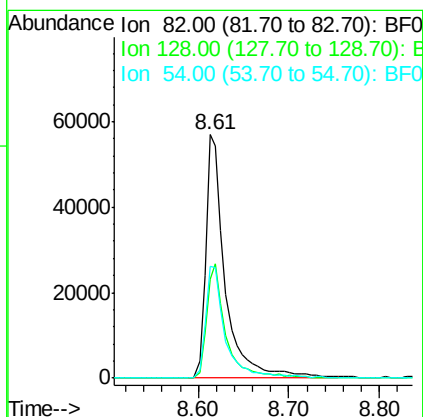
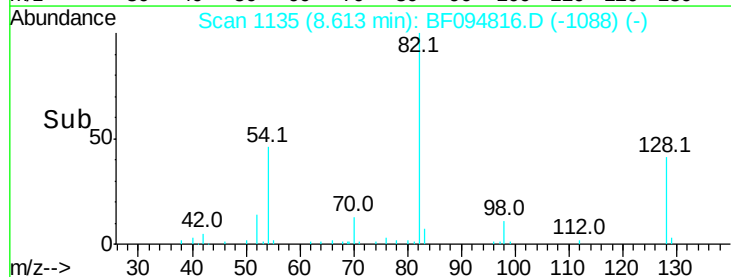
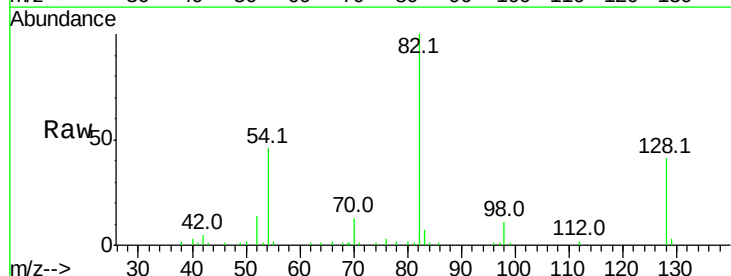
#21
Naphthalene-d8
Concen: 20.00 ng
RT: 9.75 min Scan# 1328
Delta R.T. -0.01 min
Lab File: BF094816.D
Acq: 3 May 2017 3:20

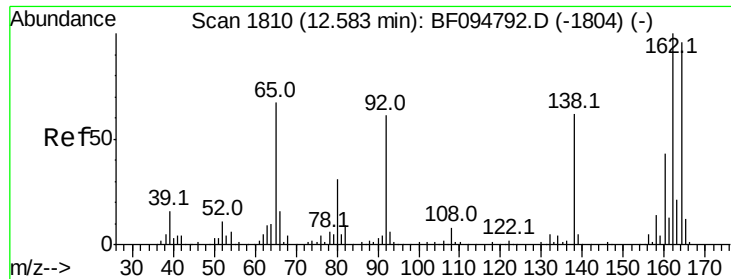
Tot Ion:136	Resp:	373345
Ion Ratio	Lower	Upper
136	100	
137	10.5	8.5 12.7
54	6.7	4.9 7.3
68	5.0	4.1 6.1



#23
Nitrobenzene-d5
Concen: 14.55 ng
RT: 8.61 min Scan# 1135
Delta R.T. -0.02 min
Lab File: BF094816.D
Acq: 3 May 2017 3:20

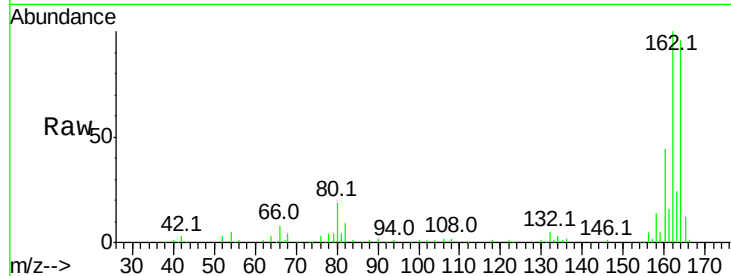
Tgt Ion: 82	Resp:	86131
Ion Ratio	Lower	Upper
82	100	
128	40.9	34.0 51.0
54	46.0	42.2 63.2



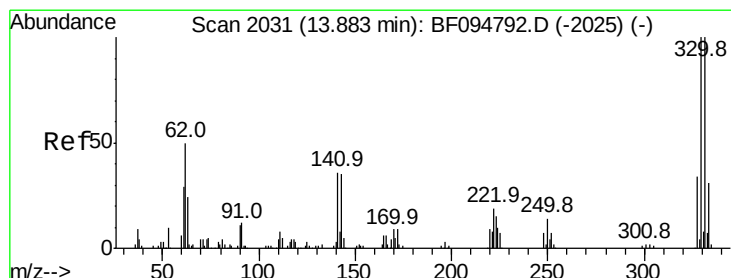
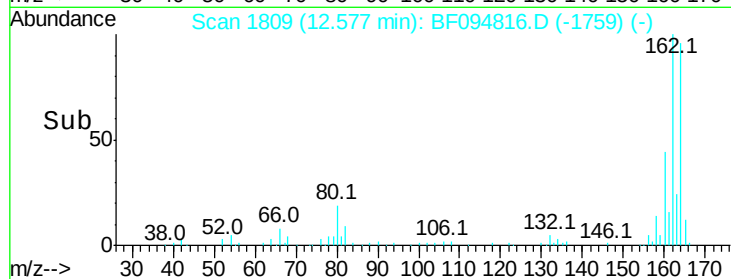
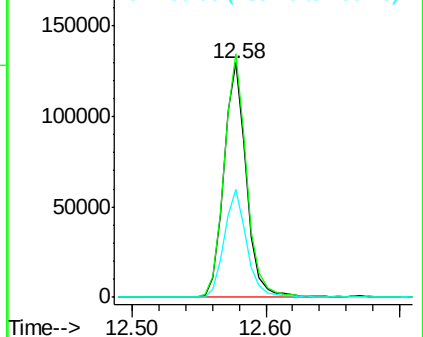


#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 12.58 min Scan# 1809
 Delta R.T. -0.01 min
 Lab File: BF094816.D
 Acq: 3 May 2017 3:20

Tot Ion:164 Resp: 154051
 Ion Ratio Lower Upper
 164 100
 162 104.0 82.6 123.8
 160 45.9 36.2 54.2

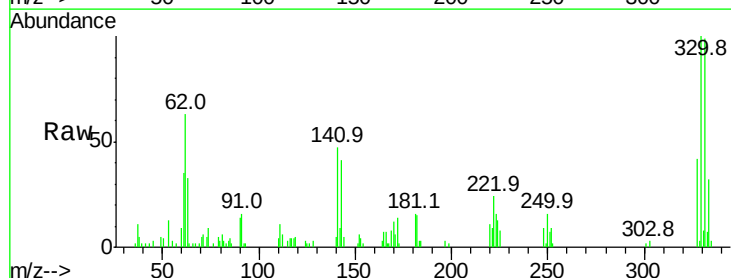


Abundance Ion 164.00 (163.70 to 164.70): E
 Ion 162.00 (161.70 to 162.70): E
 Ion 160.00 (159.70 to 160.70): E

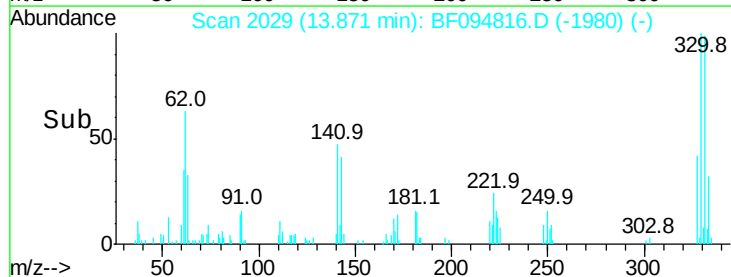
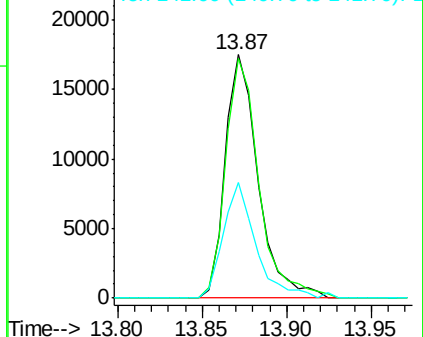


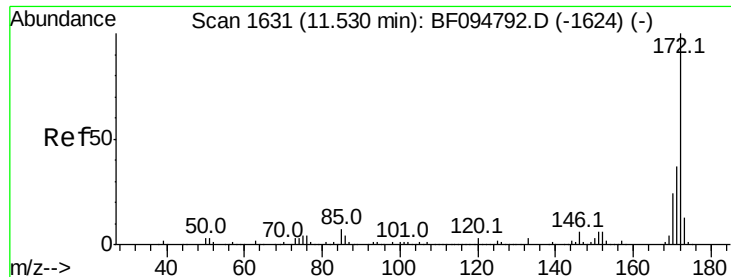
#41
 2,4,6-Tribromophenol
 Concen: 18.84 ng
 RT: 13.87 min Scan# 2029
 Delta R.T. -0.01 min
 Lab File: BF094816.D
 Acq: 3 May 2017 3:20

Tgt Ion:330 Resp: 23771
 Ion Ratio Lower Upper
 330 100
 332 99.7 76.6 115.0
 141 46.9 31.4 47.2



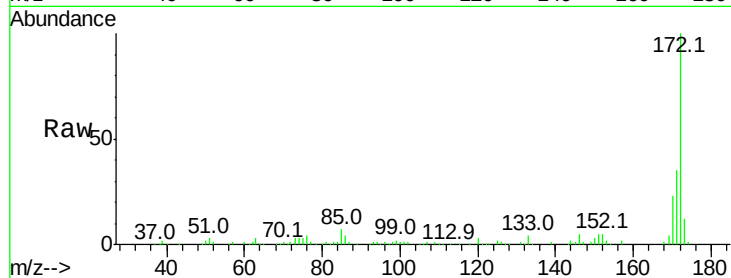
Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E



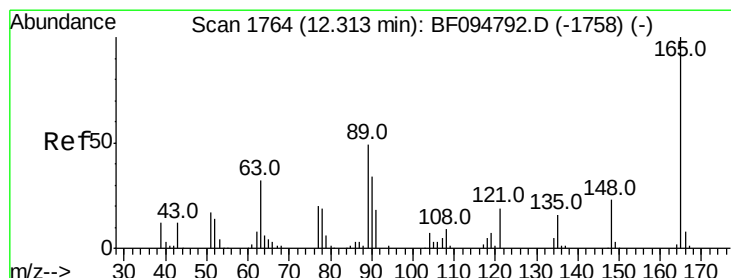
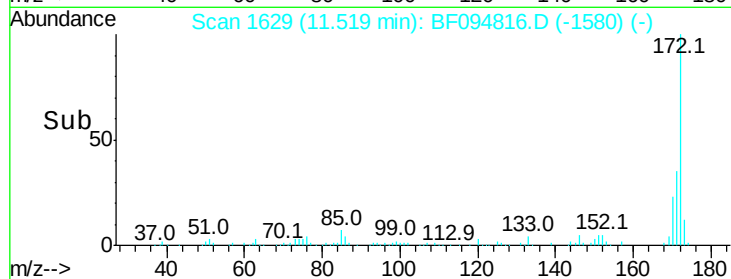
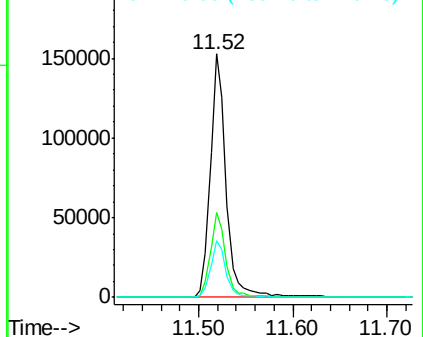


#44
 2-Fluorobiphenyl
 Concen: 16.99 ng
 RT: 11.52 min Scan# 1629
 Delta R.T. -0.01 min
 Lab File: BF094816.D
 Acq: 3 May 2017 3:20

Tot Ion:	172	Resp:	181827
Ion	Ratio	Lower	Upper
172	100		
171	34.8	29.6	44.4
170	23.2	19.8	29.8

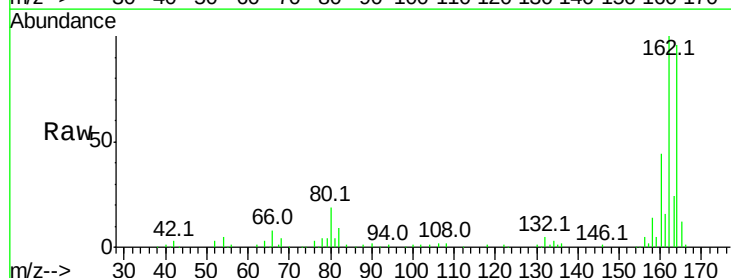


Abundance Ion 172.00 (171.70 to 172.70): E
 Ion 171.00 (170.70 to 171.70): E
 Ion 170.00 (169.70 to 170.70): E

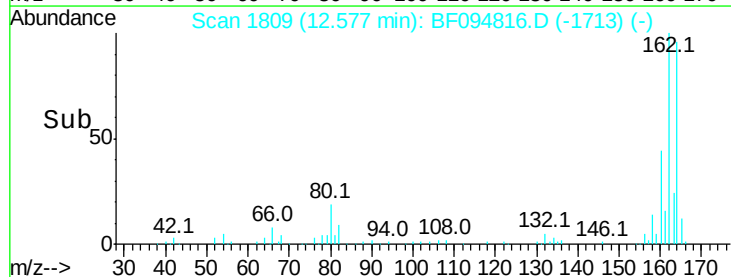
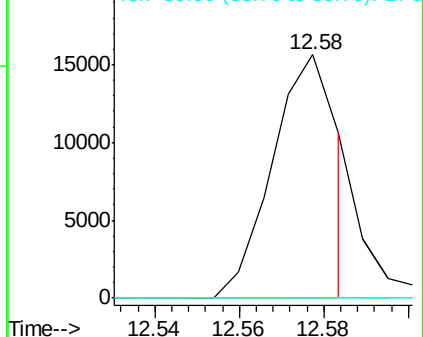


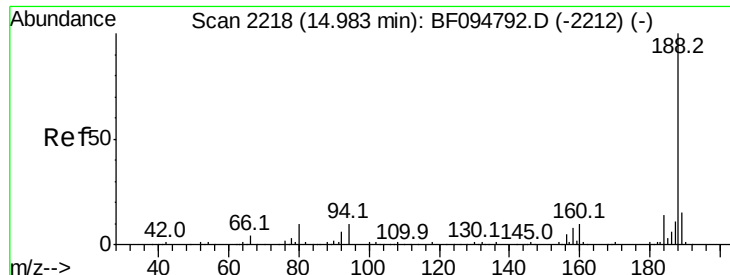
#50
 2,6-Dinitrotoluene
 Concen: 6.50 ng
 RT: 12.58 min Scan# 1809
 Delta R.T. 0.26 min
 Lab File: BF094816.D
 Acq: 3 May 2017 3:20

Tgt Ion:	165	Resp:	16774
Ion	Ratio	Lower	Upper
165	100		
63	0.0	34.3	51.5#
89	0.0	37.1	55.7#



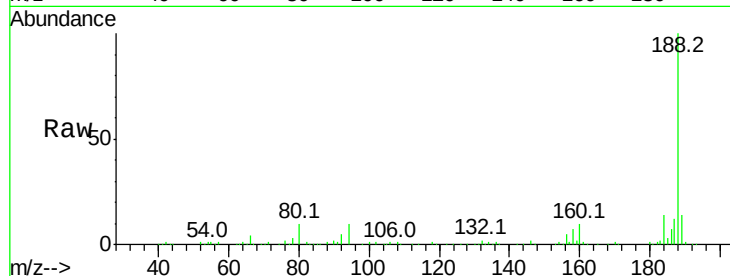
Abundance Ion 165.00 (164.70 to 165.70): E
 Ion 63.00 (62.70 to 63.70): BF0
 Ion 89.00 (88.70 to 89.70): BF0



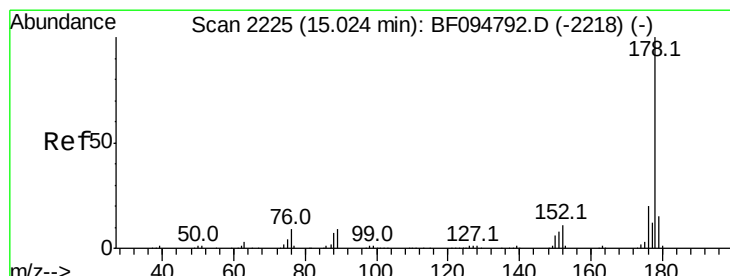
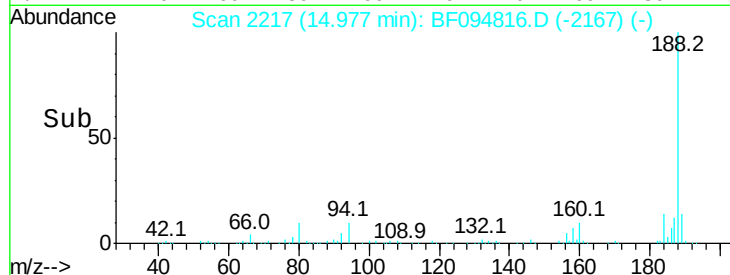
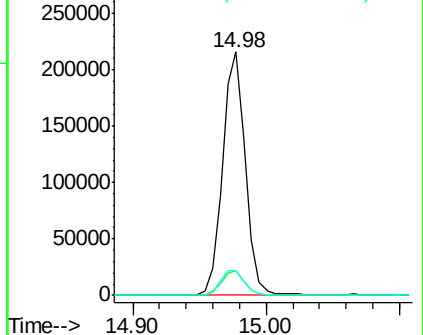


#63
 Phenanthrene-d10
 Concen: 20.00 ng
 RT: 14.98 min Scan# 2217
 Delta R.T. -0.01 min
 Lab File: BF094816.D
 Acq: 3 May 2017 3:20

Tot Ion	Ratio	Lower	Upper
188	100		
94	9.9	9.4	14.2
80	10.2	10.2	15.2

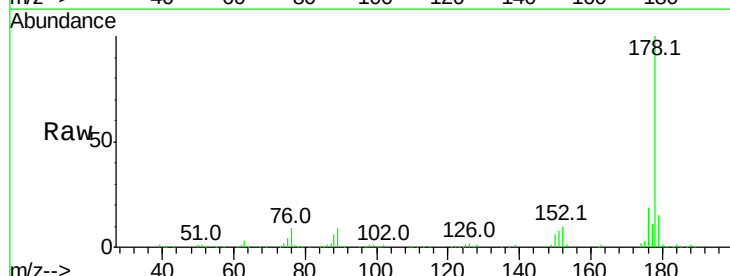


Abundance Ion 188.00 (187.70 to 188.70): E
 Ion 94.00 (93.70 to 94.70): BF0
 Ion 80.00 (79.70 to 80.70): BF0

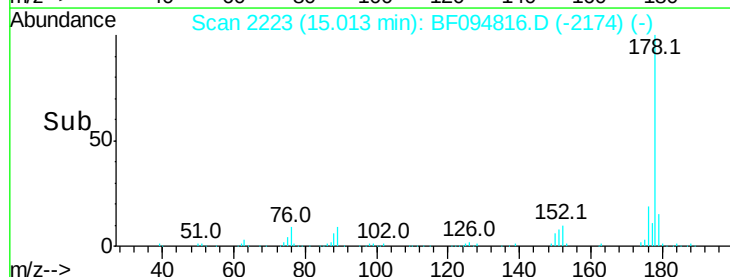
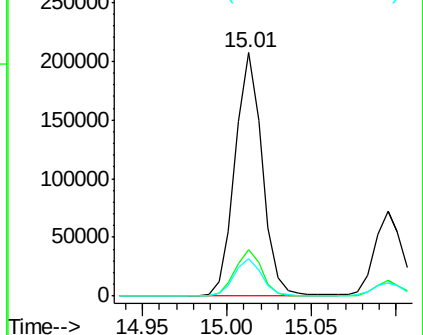


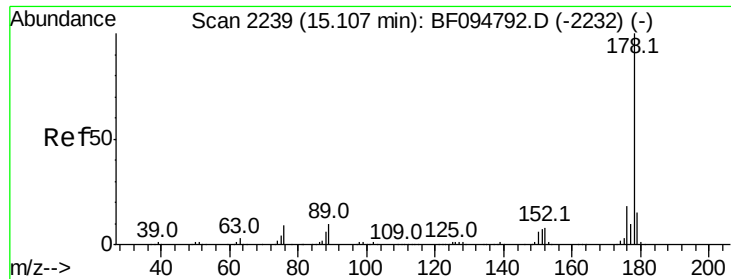
#70
 Phenanthrene
 Concen: 15.68 ng
 RT: 15.01 min Scan# 2223
 Delta R.T. -0.01 min
 Lab File: BF094816.D
 Acq: 3 May 2017 3:20

Tgt Ion	Ratio	Lower	Upper
178	100		
176	19.1	16.2	24.4
179	15.2	12.6	19.0



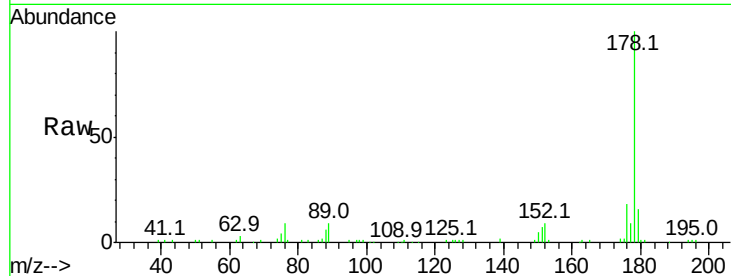
Abundance Ion 178.00 (177.70 to 178.70): E
 Ion 176.00 (175.70 to 176.70): E
 Ion 179.00 (178.70 to 179.70): E



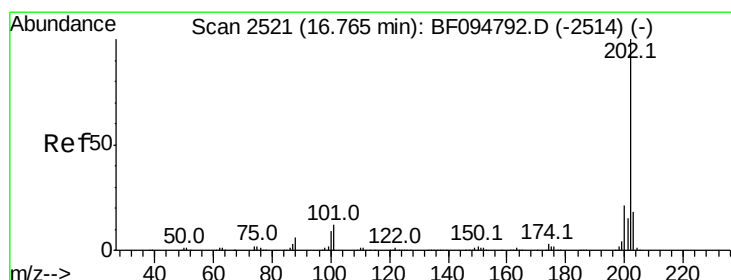
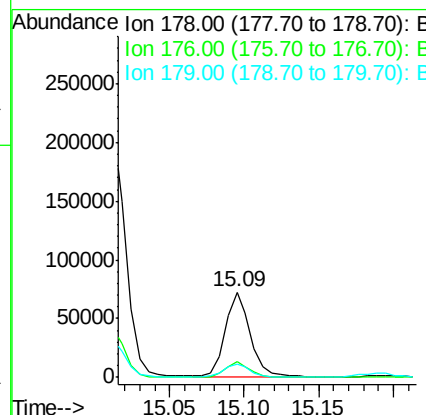
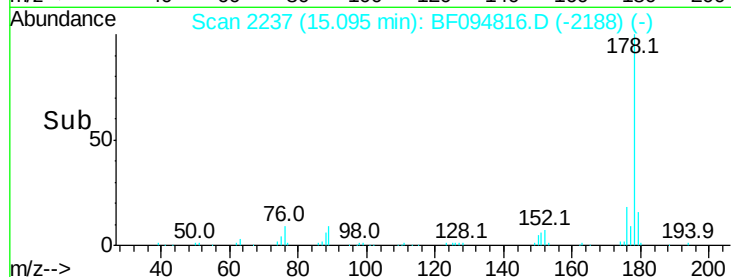


#71
 Anthracene
 Concen: 5.59 ng
 RT: 15.09 min Scan# 2237
 Delta R.T. -0.01 min
 Lab File: BF094816.D
 Acq: 3 May 2017 3:20

Tot Ion:178 Resp: 84830
 Ion Ratio Lower Upper
 178 100
 176 18.2 15.8 23.8
 179 16.0 12.7 19.1

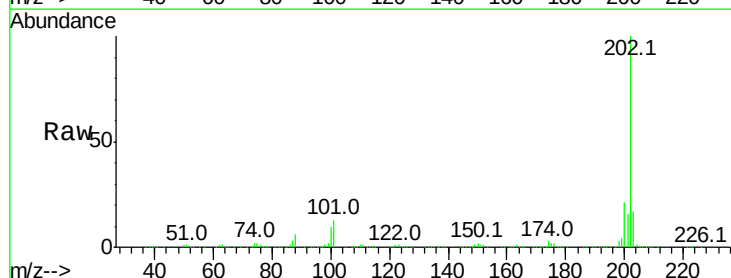


Abundance Ion 178.00 (177.70 to 178.70): E
 Ion 176.00 (175.70 to 176.70): E
 Ion 179.00 (178.70 to 179.70): E

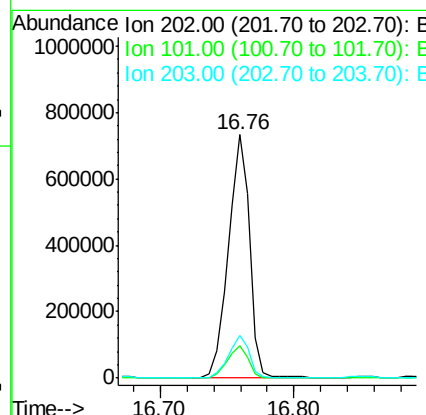
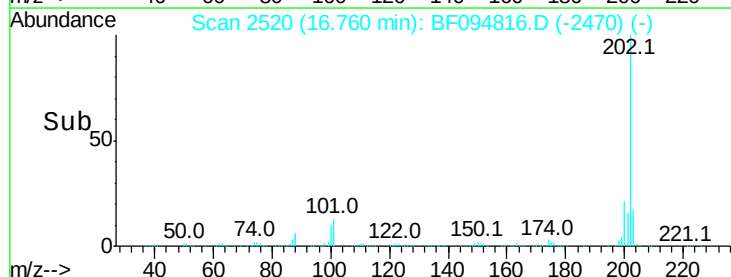


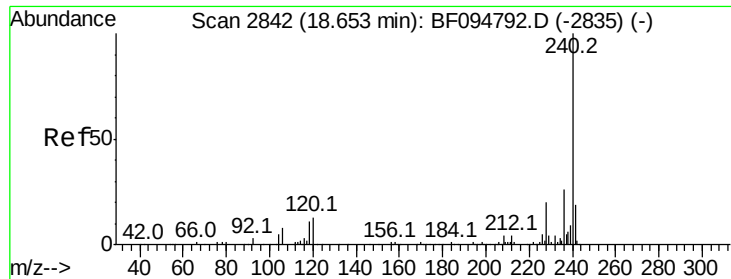
#74
 Fluoranthene
 Concen: 54.38 ng
 RT: 16.76 min Scan# 2520
 Delta R.T. -0.01 min
 Lab File: BF094816.D
 Acq: 3 May 2017 3:20

Tgt Ion:202 Resp: 828829
 Ion Ratio Lower Upper
 202 100
 101 13.4 0.0 33.2
 203 17.4 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: 18.65 min Scan# 2841

Delta R.T. -0.01 min

Lab File: BF094816.D

Acq: 3 May 2017 3:20

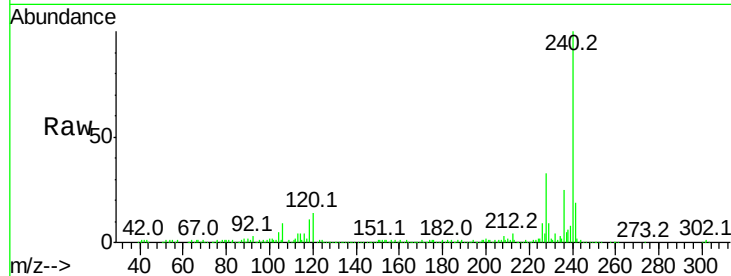
Tot Ion:240 Resp: 221478

Ion Ratio Lower Upper

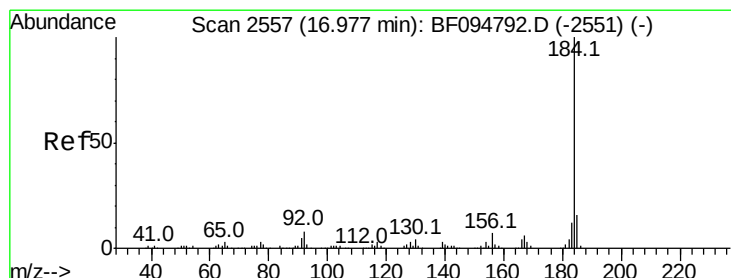
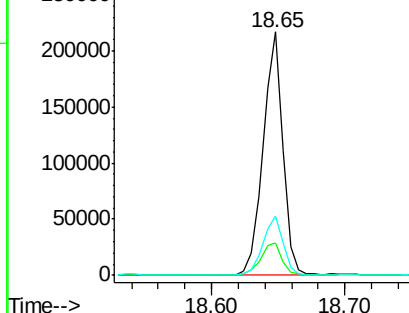
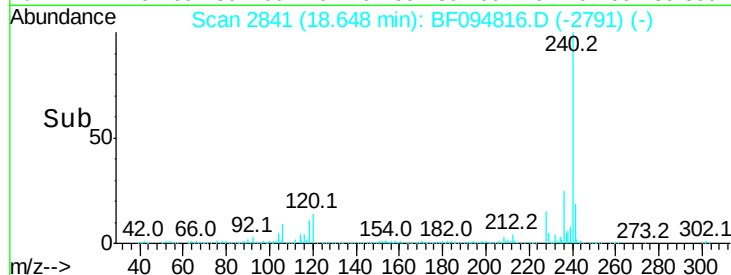
240 100

120 13.5 5.8 8.8#

236 24.6 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: 6.62 ng

RT: 16.85 min Scan# 2535

Delta R.T. -0.13 min

Lab File: BF094816.D

Acq: 3 May 2017 3:20

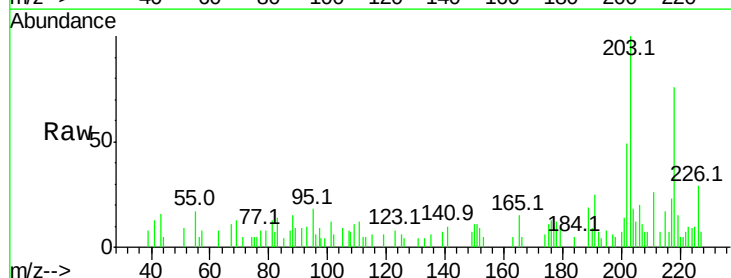
Tgt Ion:184 Resp: 235

Ion Ratio Lower Upper

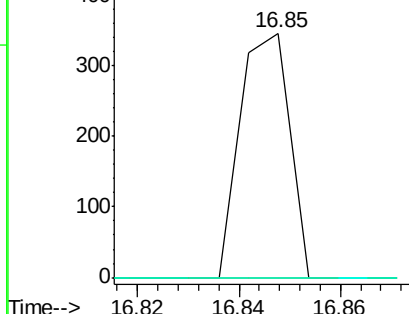
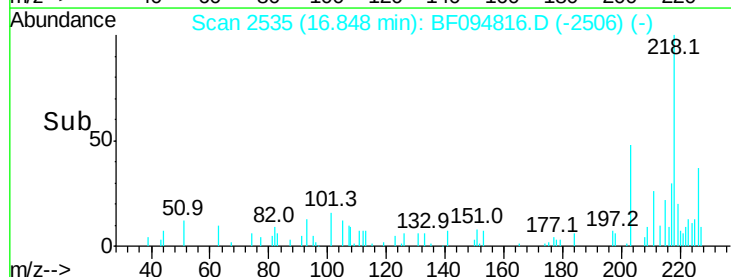
184 100

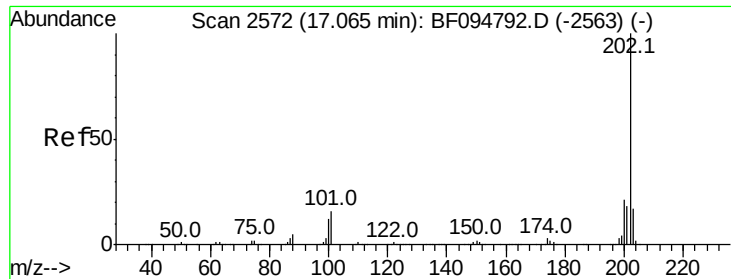
185 0.0 15.5 23.3#

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: 46.67 ng

RT: 17.06 min Scan# 2571

Delta R.T. -0.01 min

Lab File: BF094816.D

Acq: 3 May 2017 3:20

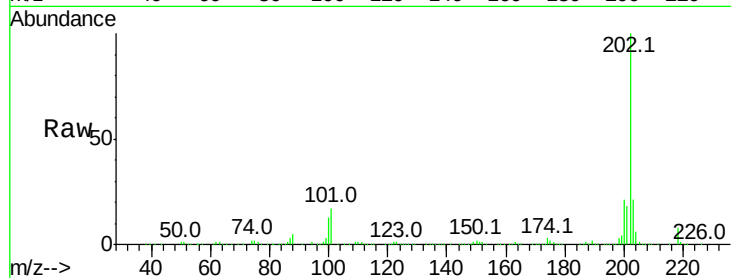
Tot Ion:202 Resp: 772999

Ion Ratio Lower Upper

202 100

200 21.4 17.6 26.4

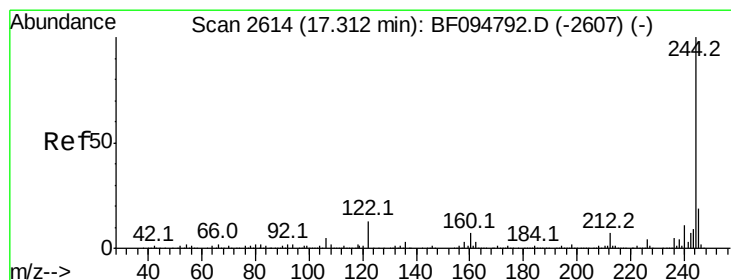
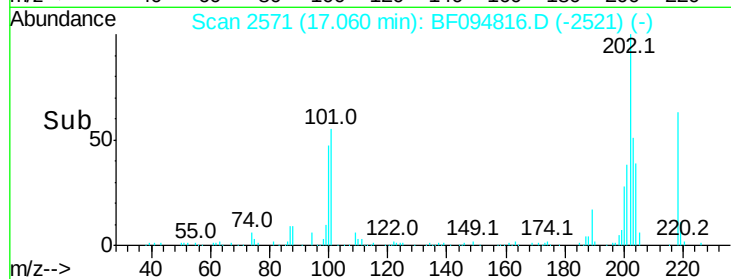
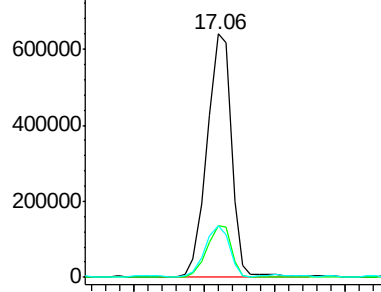
203 21.3 14.4 21.6



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: 11.87 ng

RT: 17.30 min Scan# 2612

Delta R.T. -0.01 min

Lab File: BF094816.D

Acq: 3 May 2017 3:20

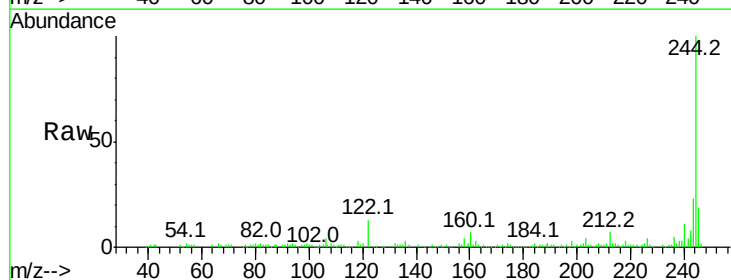
Tgt Ion:244 Resp: 119400

Ion Ratio Lower Upper

244 100

212 7.1 6.0 9.0

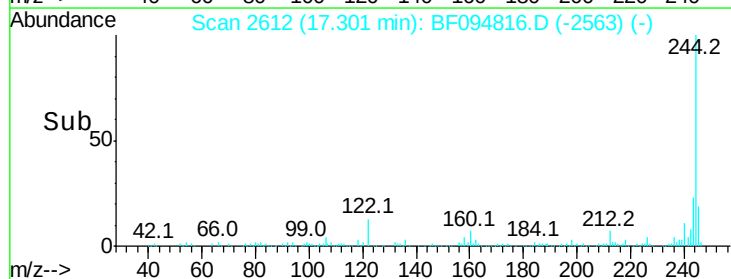
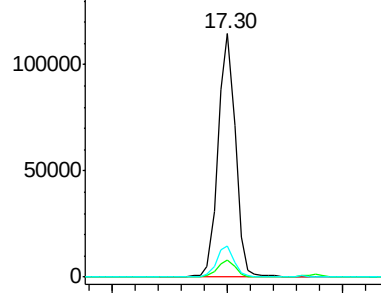
122 12.6 10.3 15.5

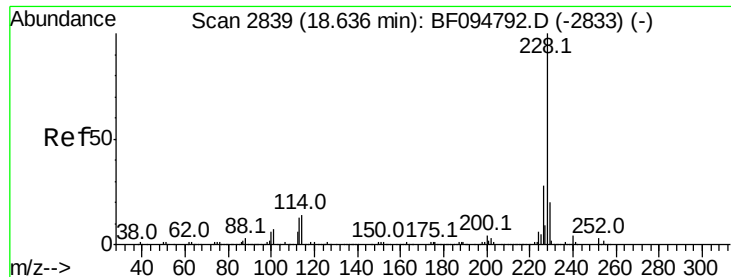


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#80

Benzo(a)anthracene

Concen: 35.65 ng

RT: 18.64 min Scan# 2839

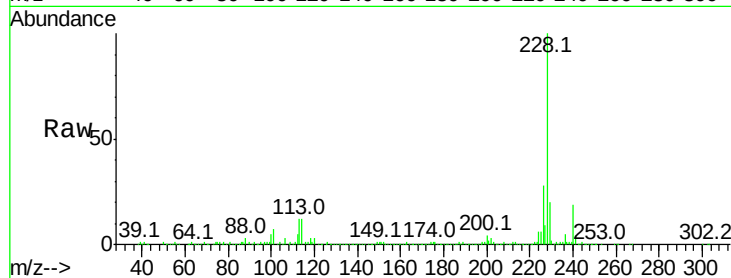
Delta R.T. 0.00 min

Lab File: BF094816.D

Acq: 3 May 2017 3:20

Tot Ion:228 Resp: 459466

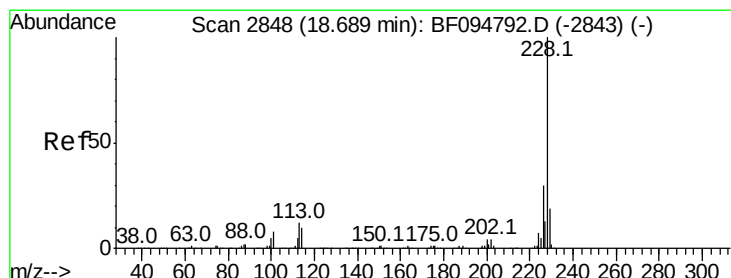
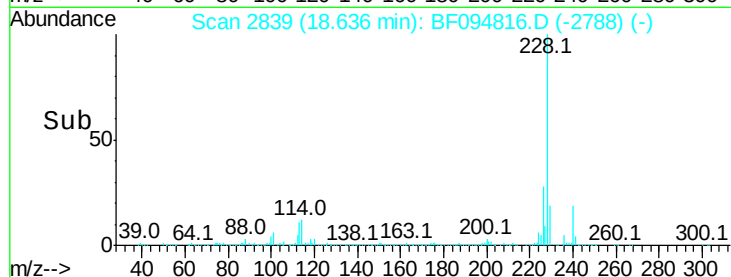
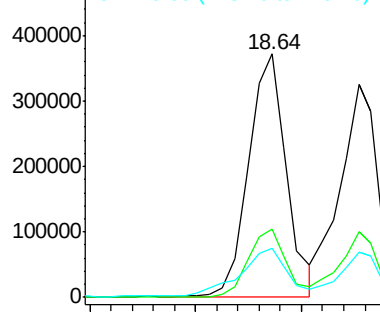
Ion	Ratio	Lower	Upper
228	100		
226	28.3	22.6	33.8
229	20.0	16.3	24.5



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: 32.38 ng

RT: 18.68 min Scan# 2846

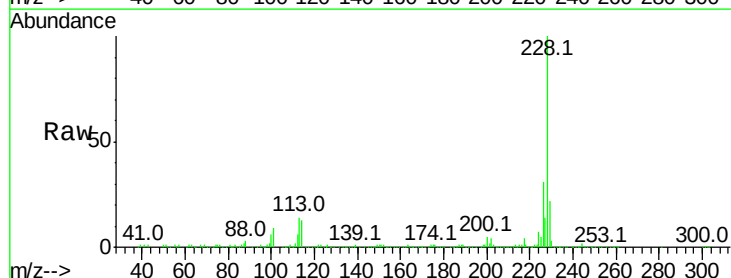
Delta R.T. -0.01 min

Lab File: BF094816.D

Acq: 3 May 2017 3:20

Tgt Ion:228 Resp: 403517

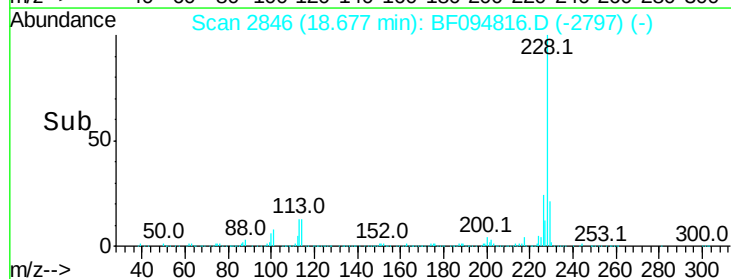
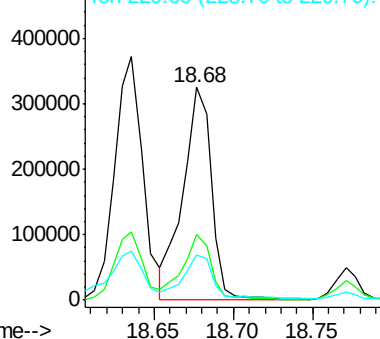
Ion	Ratio	Lower	Upper
228	100		
226	31.0	24.9	37.3
229	21.5	15.8	23.6

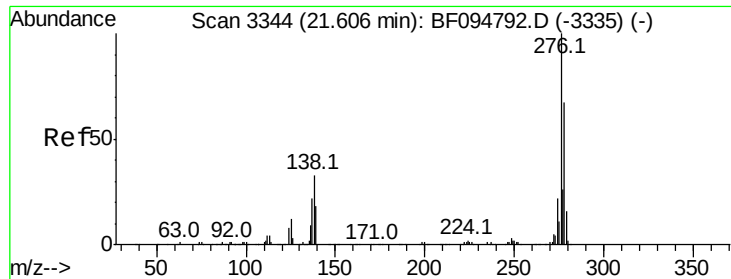


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

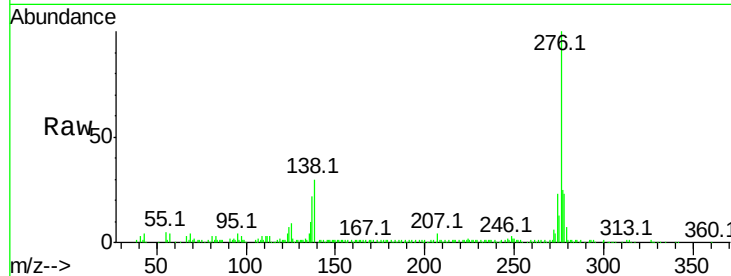
Ion 229.00 (228.70 to 229.70): E



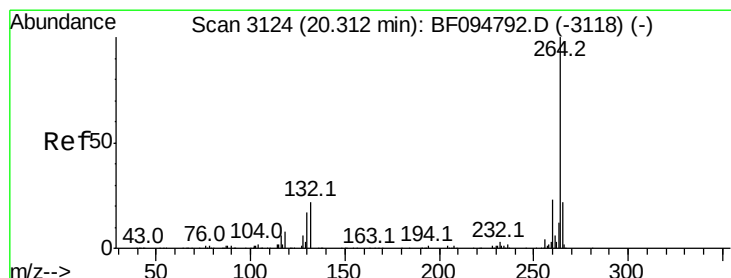
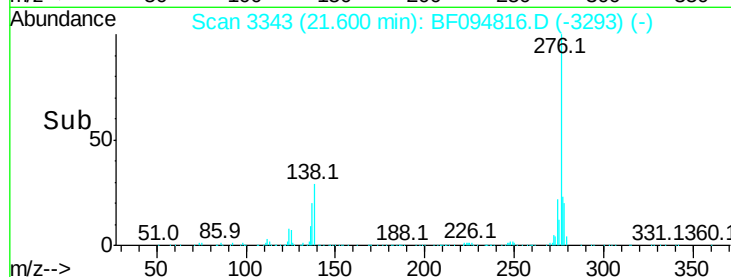
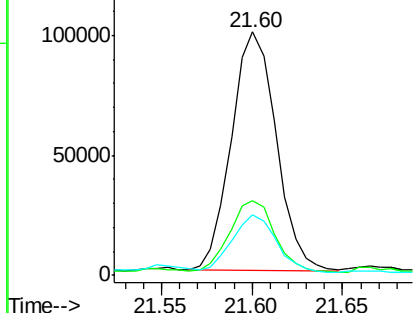


#85
Indeno(1,2,3-cd)pyrene
Concen: 16.90 ng
RT: 21.60 min Scan# 3343
Delta R.T. -0.01 min
Lab File: BF094816.D
Acq: 3 May 2017 3:20

Tot Ion	Ratio	Lower	Upper
276	100		
138	31.5	27.8	41.6
277	24.3	20.2	30.4

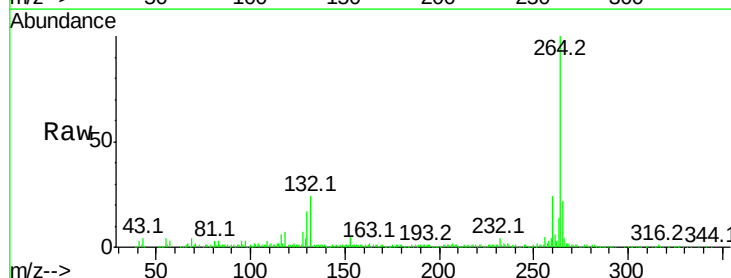


Abundance Ion 276.00 (275.70 to 276.70): E
Ion 138.00 (137.70 to 138.70): E
Ion 277.00 (276.70 to 277.70): E

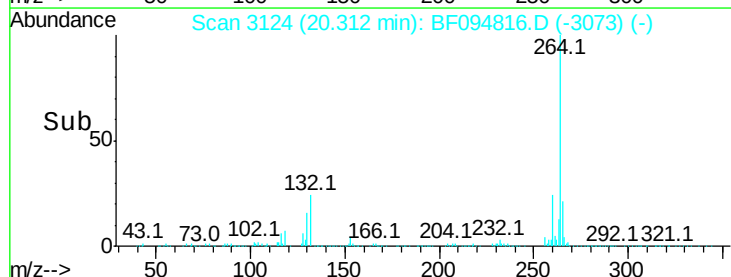
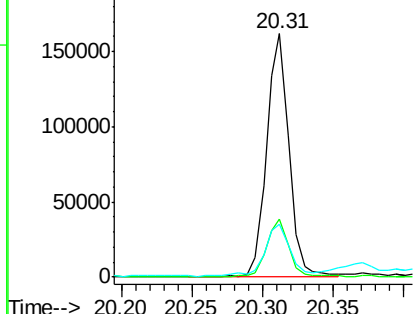


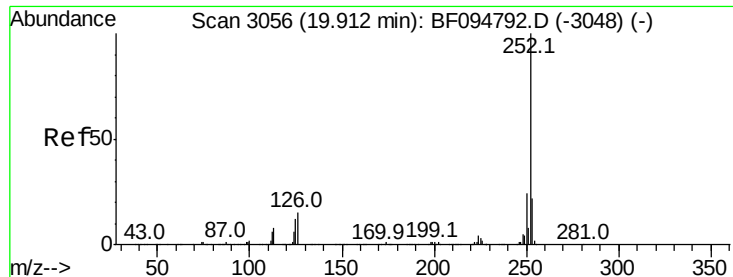
#86
Perylene-d12
Concen: 20.00 ng
RT: 20.31 min Scan# 3124
Delta R.T. 0.00 min
Lab File: BF094816.D
Acq: 3 May 2017 3:20

Tgt Ion	Ratio	Lower	Upper
264	100		
260	23.9	19.5	29.3
265	21.8	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: 59.59 ng

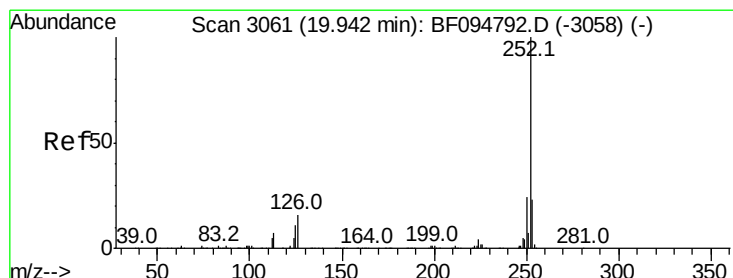
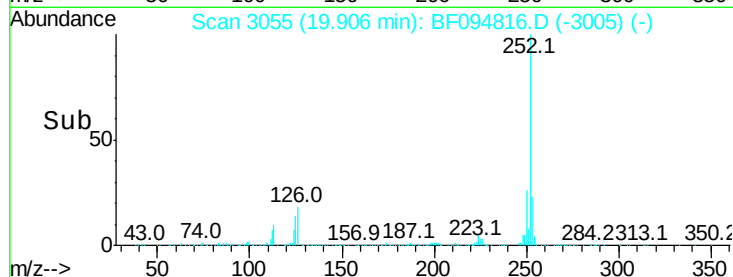
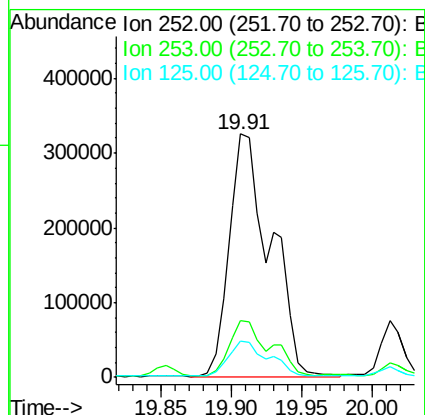
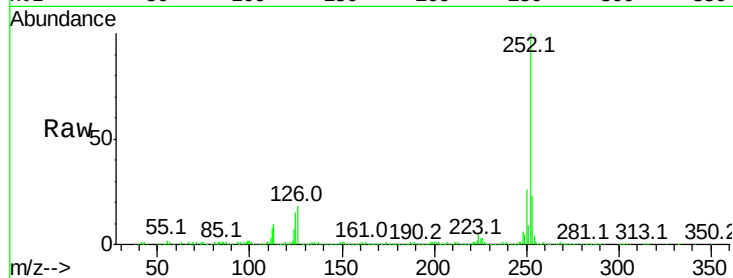
RT: 19.91 min Scan# 3055

Delta R.T. -0.01 min

Lab File: BF094816.D

Acq: 3 May 2017 3:20

Tot Ion:	252	Resp:	662220
Ion	Ratio	Lower	Upper
252	100		
253	23.1	18.1	27.1
125	14.9	9.8	14.8#



#88

Benzo(k)fluoranthene

Concen: 61.78 ng

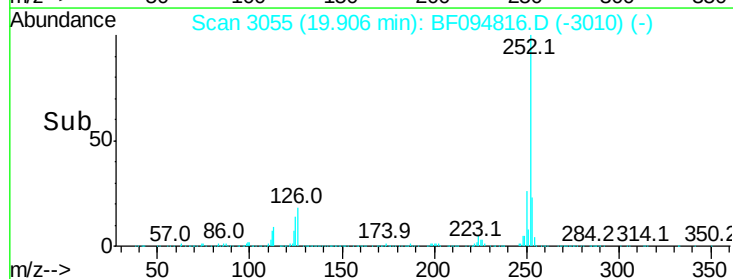
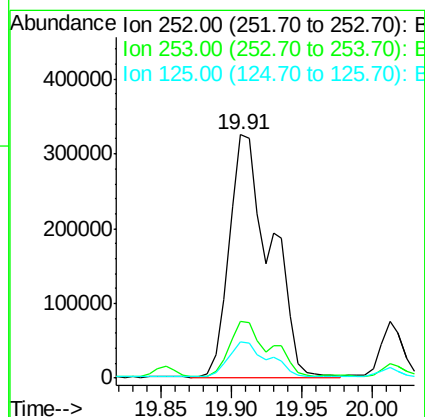
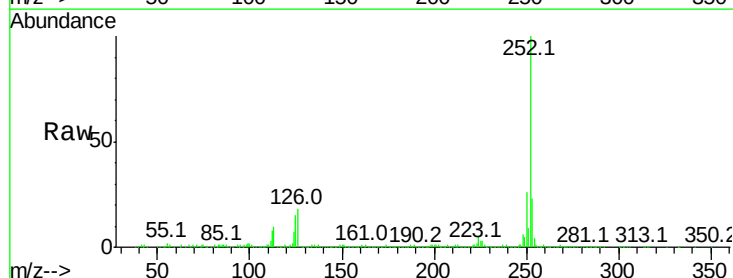
RT: 19.91 min Scan# 3055

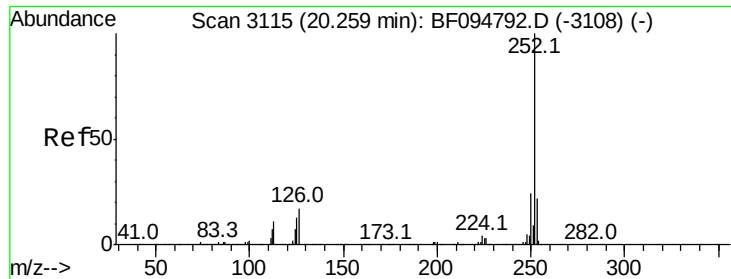
Delta R.T. -0.04 min

Lab File: BF094816.D

Acq: 3 May 2017 3:20

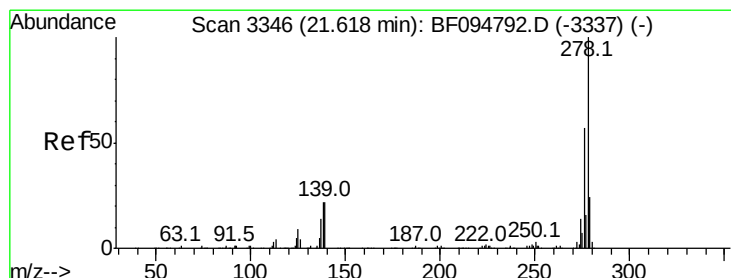
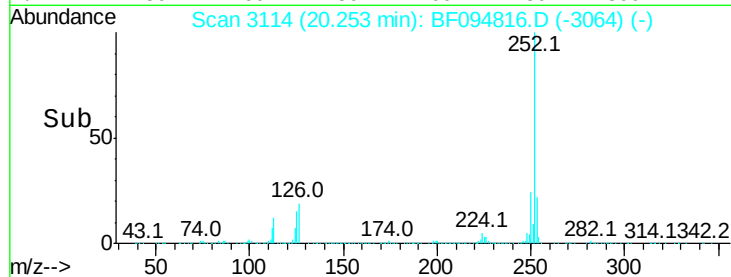
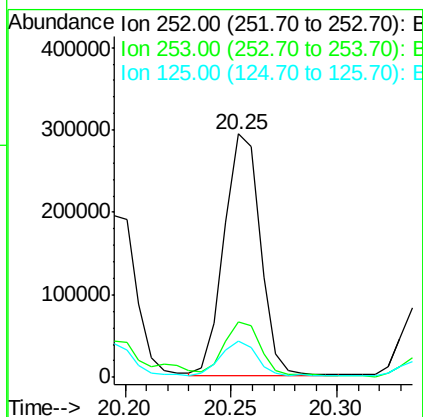
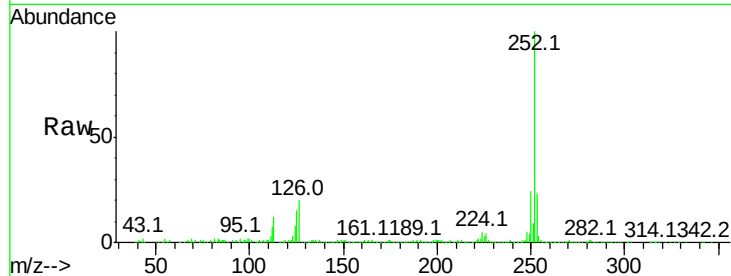
Tgt Ion:	252	Resp:	662220
Ion	Ratio	Lower	Upper
252	100		
253	23.1	18.4	27.6
125	14.9	13.1	19.7





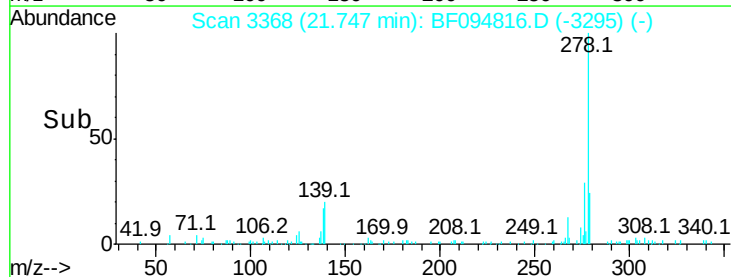
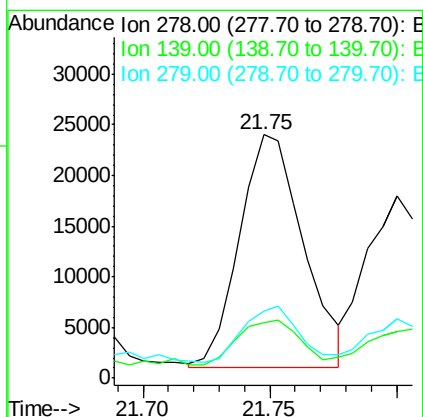
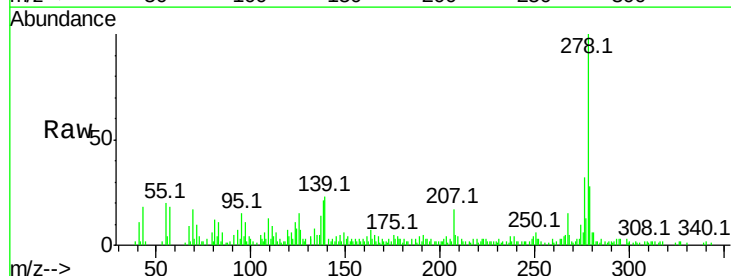
#89
Benzo(a)pyrene
Concen: 34.22 ng
RT: 20.25 min Scan# 3114
Delta R.T. -0.01 min
Lab File: BF094816.D
Acq: 3 May 2017 3:20

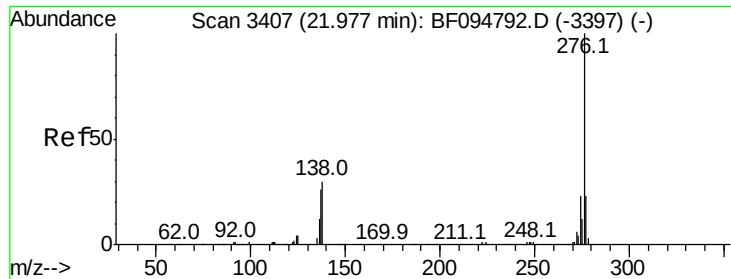
Tot Ion	Ratio	Lower	Upper
252	100		
253	22.8	17.5	26.3
125	15.1	11.0	16.4



#90
Dibenzo(a,h)anthracene
Concen: 4.78 ng
RT: 21.75 min Scan# 3368
Delta R.T. 0.13 min
Lab File: BF094816.D
Acq: 3 May 2017 3:20

Tgt Ion	Ratio	Lower	Upper
278	100		
139	23.0	16.6	24.8
279	27.7	19.3	28.9





#91
 Benzo(a,h,i)perylene
 Concen: 19.31 ng
 RT: 21.98 min Scan# 3407
 Delta R.T. 0.00 min
 Lab File: BF094816.D
 Acq: 3 May 2017 3:20

Tot Ion:	276	Resp:	160438
Ion	Ratio	Lower	Upper
276	100		
277	23.5	18.6	28.0
138	29.2	25.4	38.0

