

Data Path : Z:\HPCHEM1\BNA F\Data\BF040317\
 Data File : BF094166.D
 Acq On : 4 Apr 2017 13:41
 Operator : SJ/MA
 Sample : I2510-09DL 10X
 Misc :
 ALS Vial : 48 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 E2-M10-ESWDL

Quant Time: Apr 04 14:02:40 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF032217.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Mar 31 14:38:29 2017
 Response via : Initial Calibration

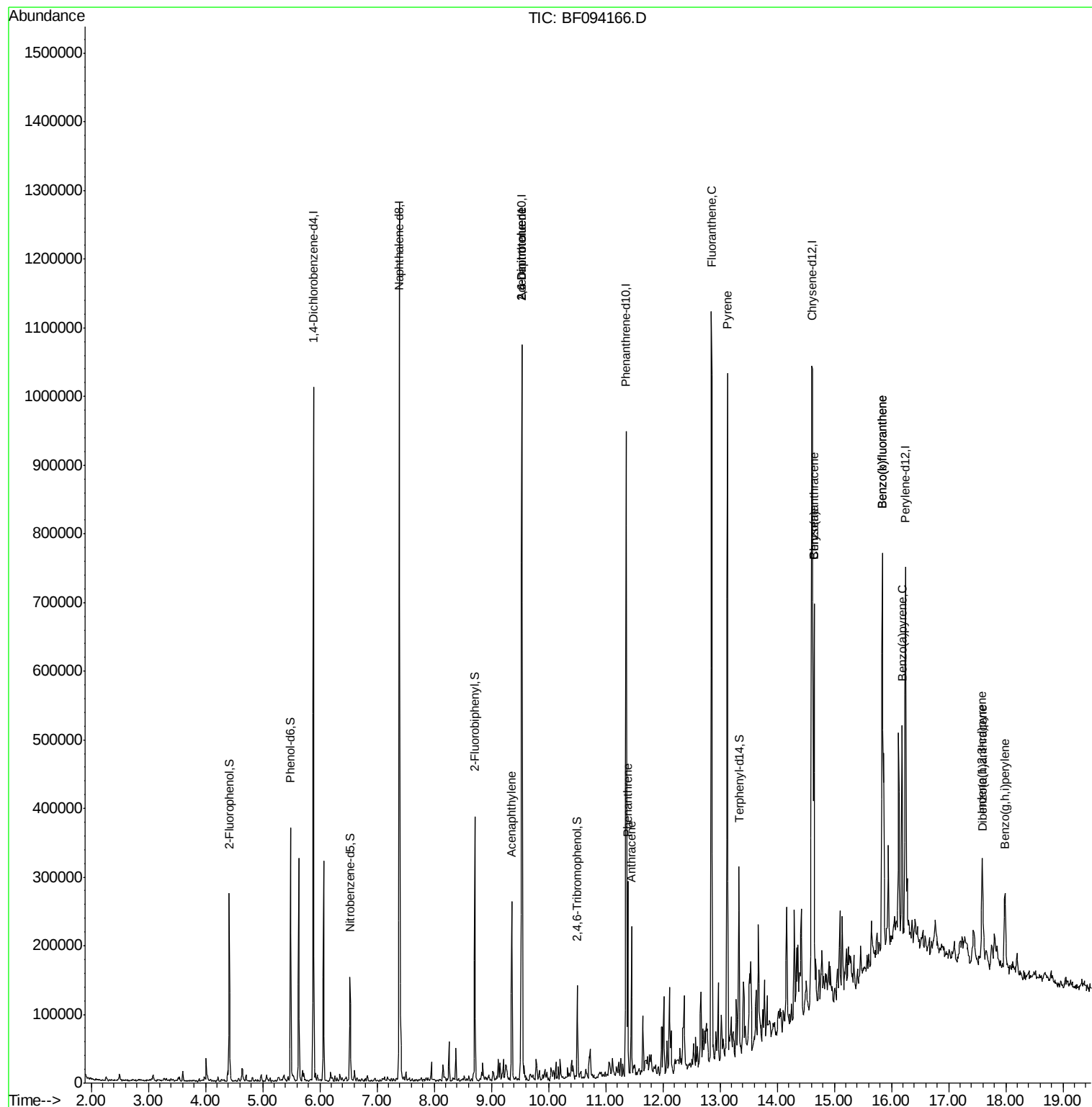
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.89	152	159550	20.00	ng	-0.02
21) Naphthalene-d8	7.39	136	585959	20.00	ng	-0.02
38) Acenaphthene-d10	9.53	164	227180	20.00	ng	-0.02
63) Phenanthrene-d10	11.36	188	356447	20.00	ng	-0.02
75) Chrysene-d12	14.62	240	306572	20.00	ng	-0.01
86) Perylene-d12	16.24	264	212713	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	4.42	112	82711	8.76	ng	-0.02
7) Phenol-d6	5.49	99	107611	9.21	ng	-0.02
23) Nitrobenzene-d5	6.53	82	49711	4.84	ng	-0.03
41) 2,4,6-Tribromophenol	10.50	330	12829	7.15	ng	-0.02
44) 2-Fluorobiphenyl	8.71	172	126321	8.48	ng	-0.02
78) Terphenyl-d14	13.33	244	80067	5.85	ng	-0.02
Target Compounds						Qvalue
48) Acenaphthylene	9.36	152	114360	4.80	ng	99
50) 2,6-Dinitrotoluene	9.53	165	29129	7.87	ng	# 33
56) 2,4-Dinitrotoluene	9.53	165	29129	6.26	ng	# 33
70) Phenanthrene	11.39	178	108273	5.46	ng	98
71) Anthracene	11.45	178	92247	4.52	ng	99
74) Fluoranthene	12.85	202	486534	23.96	ng	98
77) Pyrene	13.13	202	433059	19.46	ng	97
80) Benzo(a)anthracene	14.64	228	248579	13.90	ng	97
82) Chrysene	14.64	228	248579	14.98	ng	98
85) Indeno(1,2,3-cd)pyrene	17.59	276	95525	6.65	ng	94
87) Benzo(b)fluoranthene	15.84	252	384827	29.51	ng	97
88) Benzo(k)fluoranthene	15.84	252	384827	30.17	ng	95
89) Benzo(a)pyrene	16.19	252	127474	10.62	ng	98
90) Dibenzo(a,h)anthracene	17.60	278	25371	2.50	ng	# 86
91) Benzo(a,h,i)perylene	17.99	276	79318	7.74	ng	98

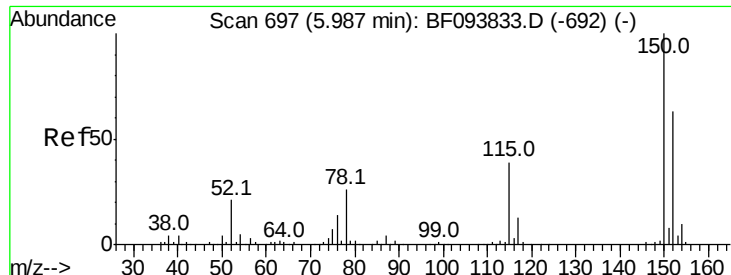
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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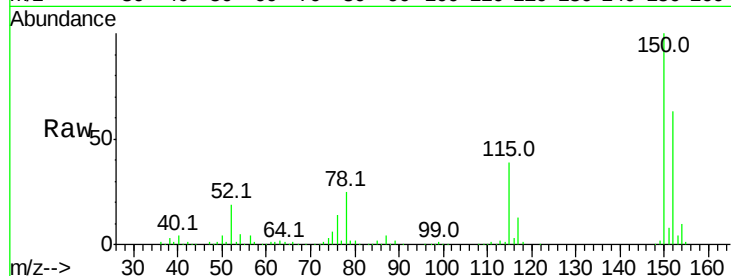


#1

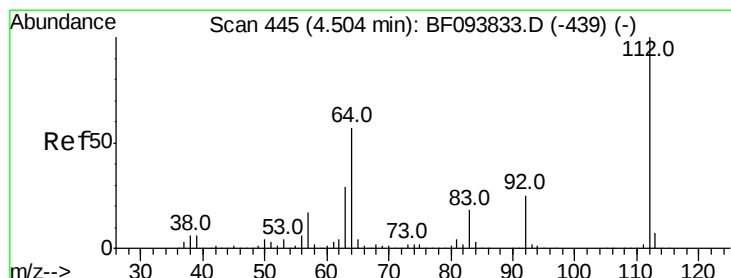
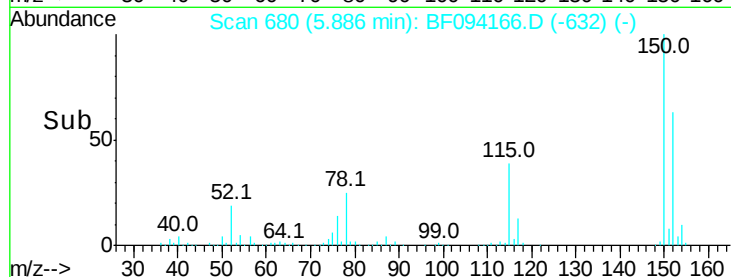
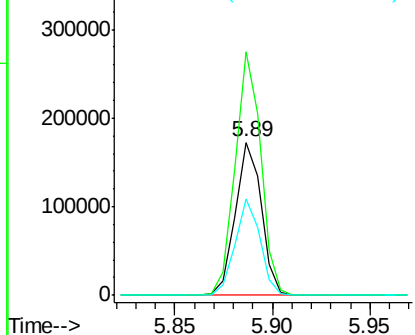
1,4-Dichlorobenzene-d4
 Concen: 20.00 ng
 RT: 5.89 min Scan# 680
 Delta R.T. -0.02 min
 Lab File: BF094166.D
 Acq: 4 Apr 2017 13:41

Instrument :
 BNA_F
 ClientSampleId :
 E2-M10-ESWDL

Tot Ion:152 Resp: 159550
 Ion Ratio Lower Upper
 152 100
 150 158.8 126.2 189.2
 115 62.6 52.2 78.2



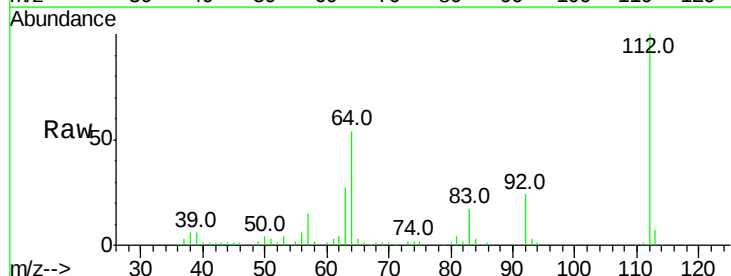
Abundance Ion 152.00 (151.70 to 152.70): E
 Ion 150.00 (149.70 to 150.70): E
 Ion 115.00 (114.70 to 115.70): E



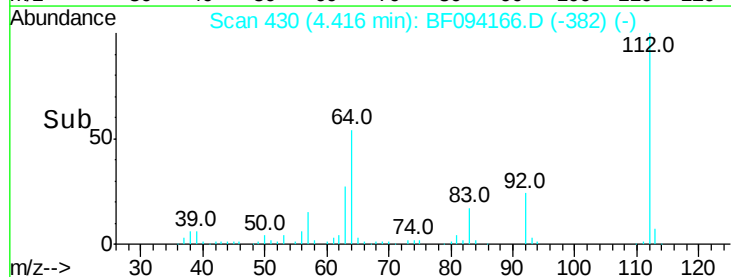
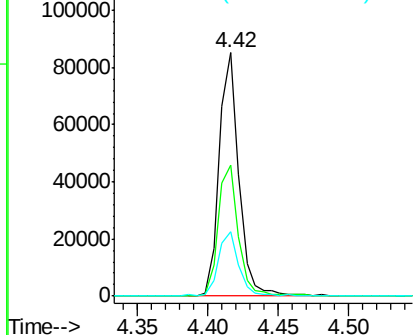
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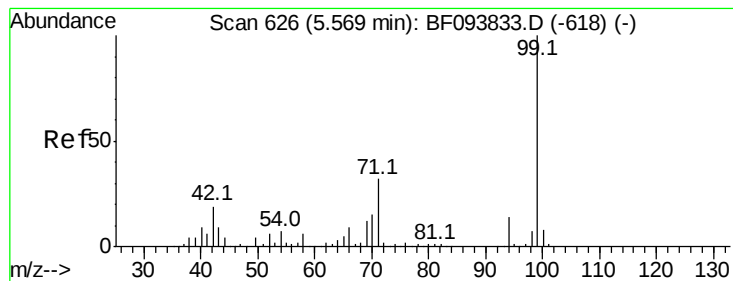
2-Fluorophenol
 Concen: 8.76 ng
 RT: 4.42 min Scan# 430
 Delta R.T. -0.02 min
 Lab File: BF094166.D
 Acq: 4 Apr 2017 13:41

Tgt Ion:112 Resp: 82711
 Ion Ratio Lower Upper
 112 100
 64 53.8 46.0 69.0
 63 26.6 23.4 35.0



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





#7

Phenol-d6

Concen: 9.21 ng

RT: 5.49 min Scan# 612

Delta R.T. -0.02 min

Lab File: BF094166.D

Acq: 4 Apr 2017 13:41

Instrument :

BNA_F

ClientSampleId :

E2-M10-ESWDL

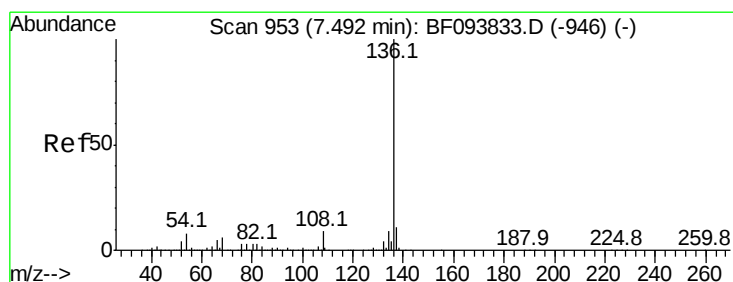
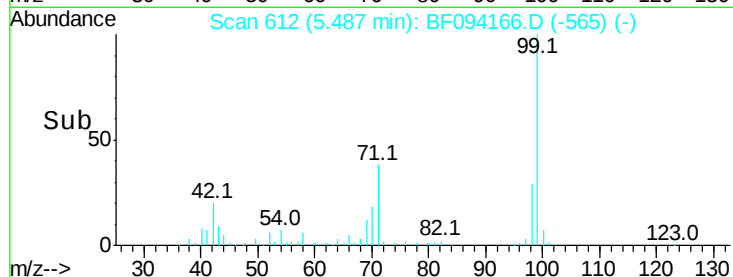
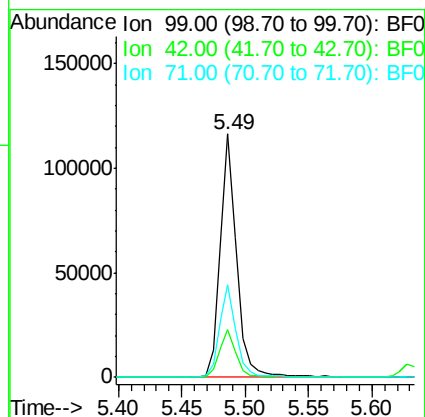
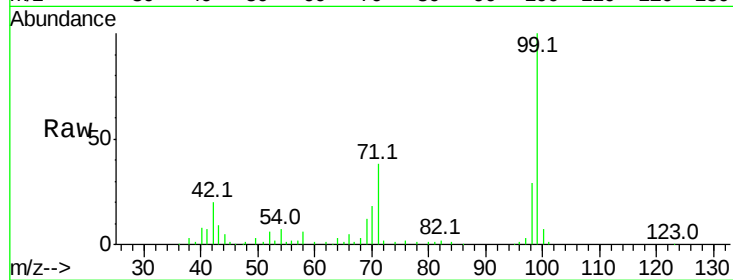
Tot Ion: 99 Resp: 107611

Ion Ratio Lower Upper

99 100

42 19.6 13.5 20.3

71 38.0 24.5 36.7#



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 7.39 min Scan# 936

Delta R.T. -0.02 min

Lab File: BF094166.D

Acq: 4 Apr 2017 13:41

Tgt Ion: 136 Resp: 585959

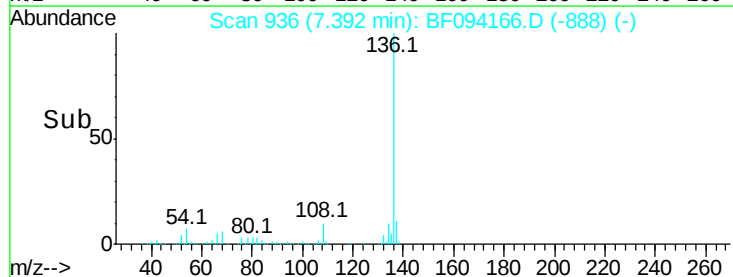
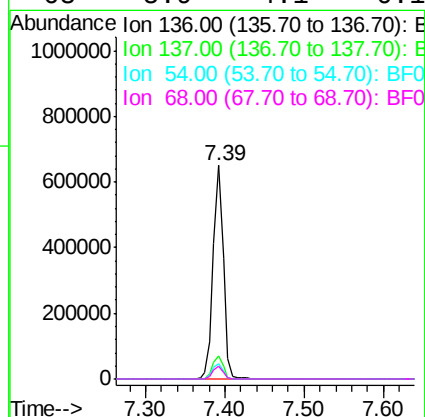
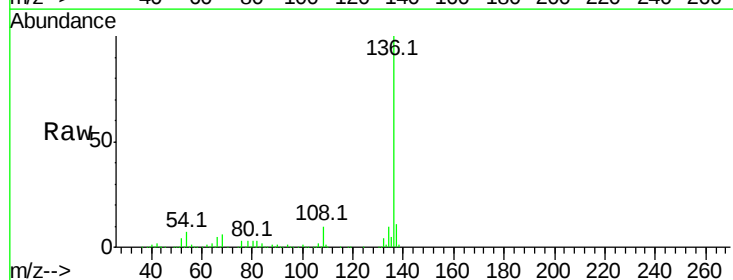
Ion Ratio Lower Upper

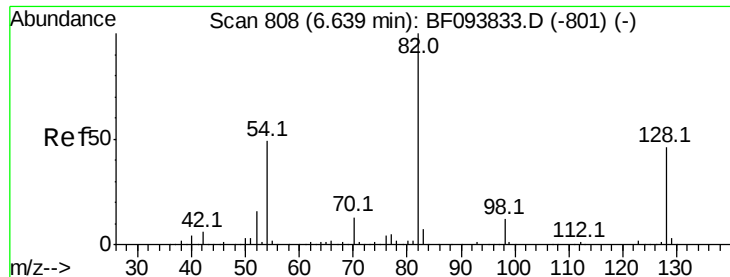
136 100

137 10.9 8.5 12.7

54 7.5 4.9 7.3#

68 5.9 4.1 6.1

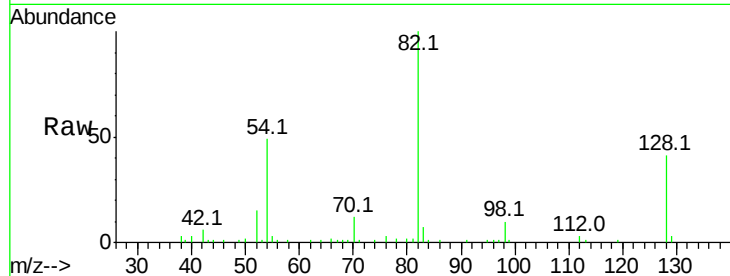




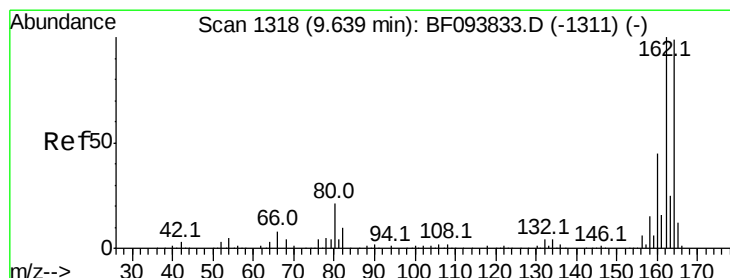
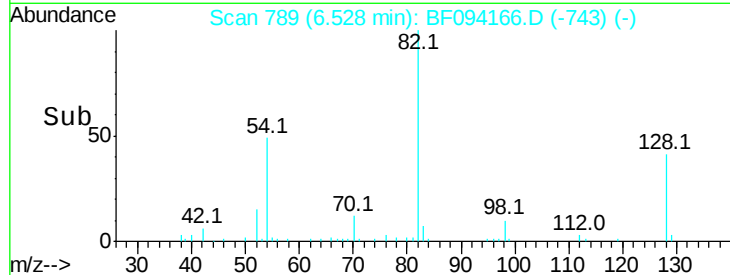
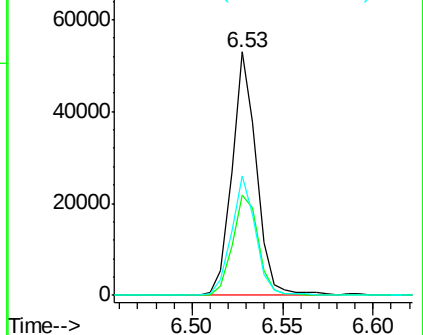
#23
 Nitrobenzene-d5
 Concen: 4.84 ng
 RT: 6.53 min Scan# 789
 Delta R.T. -0.03 min
 Lab File: BF094166.D
 Acq: 4 Apr 2017 13:41

Instrument :
 BNA_F
 ClientSampleId :
 E2-M10-ESWDL

Tot Ion: 82 Resp: 49711
 Ion Ratio Lower Upper
 82 100
 128 41.3 34.0 51.0
 54 49.2 42.2 63.2

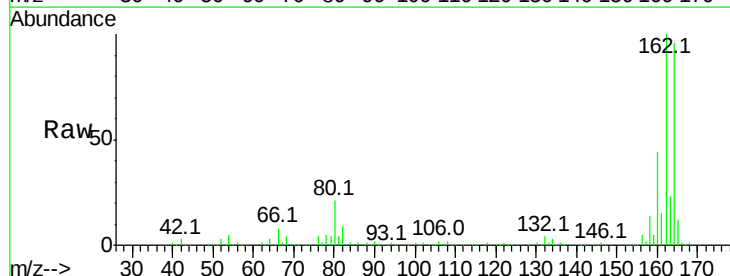


Abundance Ion 82.00 (81.70 to 82.70): BF0
 Ion 128.00 (127.70 to 128.70): E
 Ion 54.00 (53.70 to 54.70): BF0

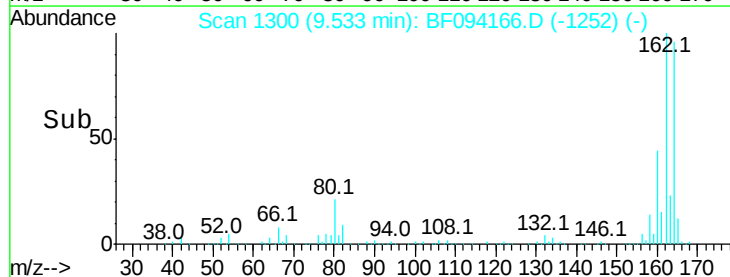
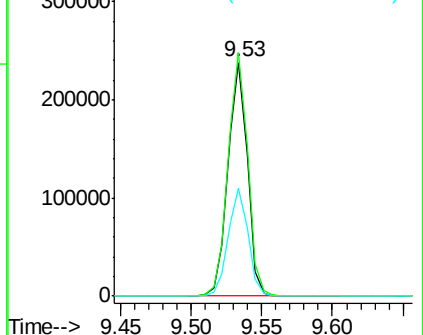


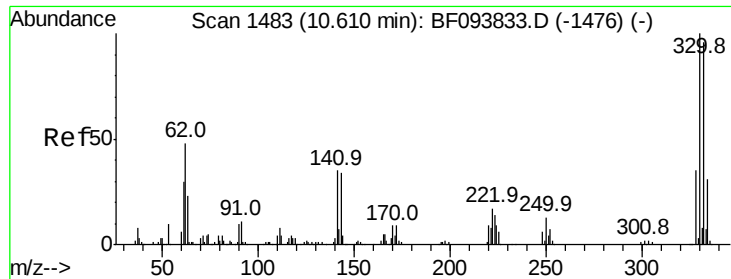
#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 9.53 min Scan# 1300
 Delta R.T. -0.02 min
 Lab File: BF094166.D
 Acq: 4 Apr 2017 13:41

Tgt Ion: 164 Resp: 227180
 Ion Ratio Lower Upper
 164 100
 162 104.2 82.6 123.8
 160 46.3 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

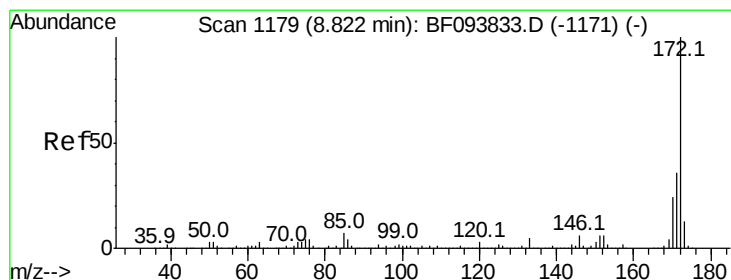
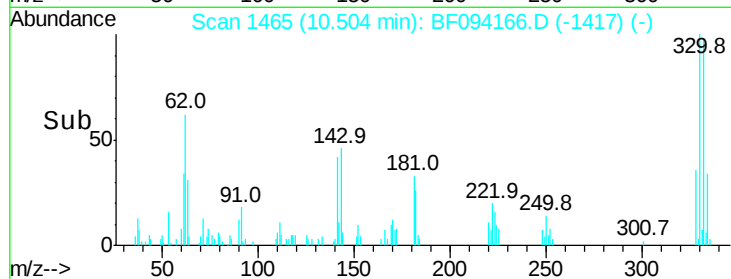
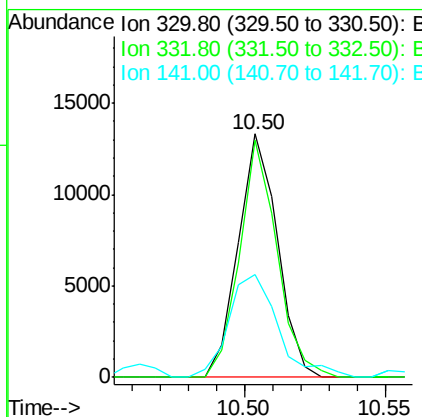
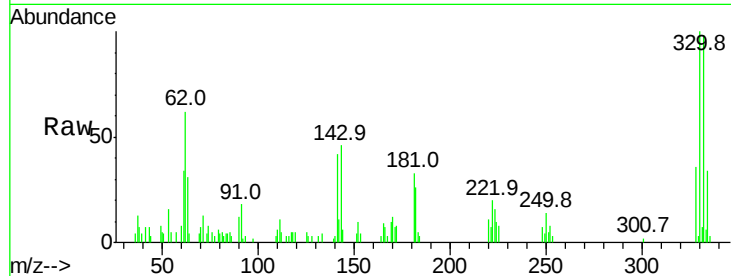




#41
 2,4,6-Tribromophenol
 Concen: 7.15 ng
 RT: 10.50 min Scan# 1465
 Delta R.T. -0.02 min
 Lab File: BF094166.D
 Acq: 4 Apr 2017 13:41

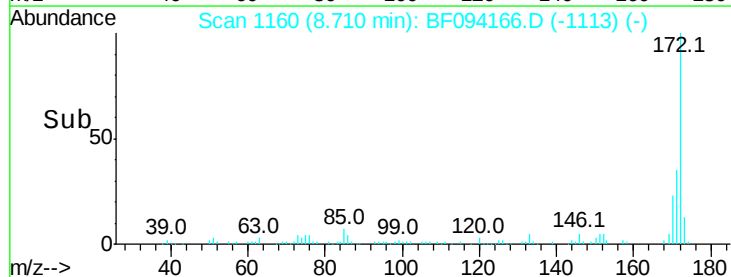
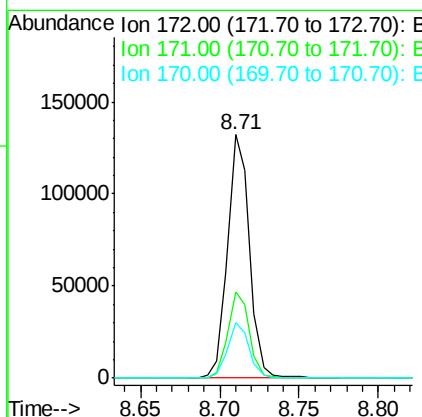
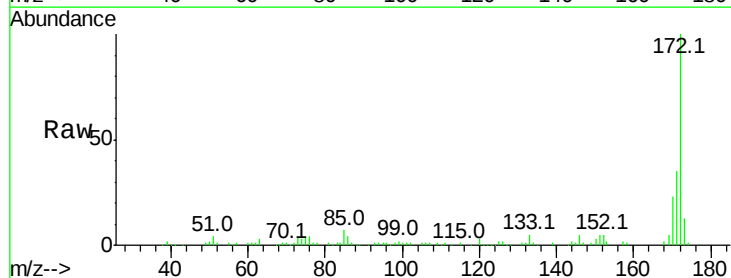
Instrument :
 BNA_F
 ClientSampleId :
 E2-M10-ESWDL

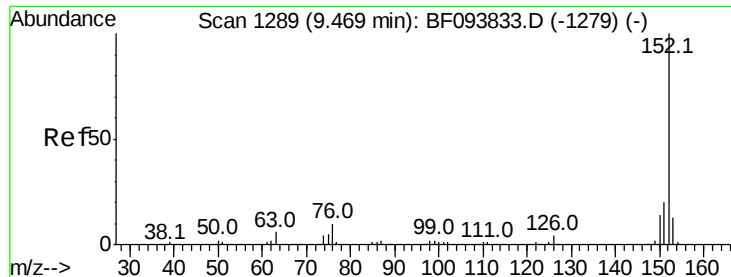
Tot Ion	Ratio	Lower	Upper
330	100		
332	93.4	76.6	115.0
141	53.7	31.4	47.2#



#44
 2-Fluorobiphenyl
 Concen: 8.48 ng
 RT: 8.71 min Scan# 1160
 Delta R.T. -0.02 min
 Lab File: BF094166.D
 Acq: 4 Apr 2017 13:41

Tgt Ion	Ratio	Lower	Upper
172	100		
171	35.2	29.6	44.4
170	22.8	19.8	29.8





#48

Acenaphthylene

Concen: 4.80 ng

RT: 9.36 min Scan# 1270

Delta R.T. -0.02 min

Lab File: BF094166.D

Acq: 4 Apr 2017 13:41

Instrument :

BNA_F

ClientSampleId :

E2-M10-ESWDL

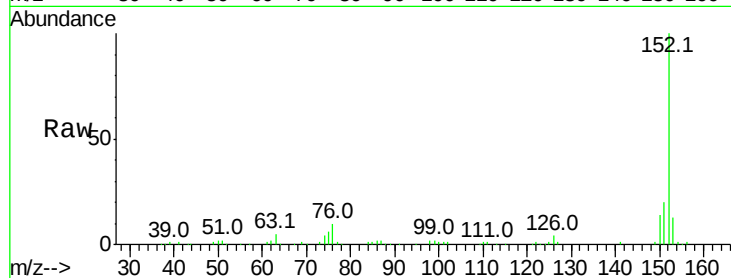
Tot Ion:152 Resp: 114360

Ion Ratio Lower Upper

152 100

151 20.1 16.8 25.2

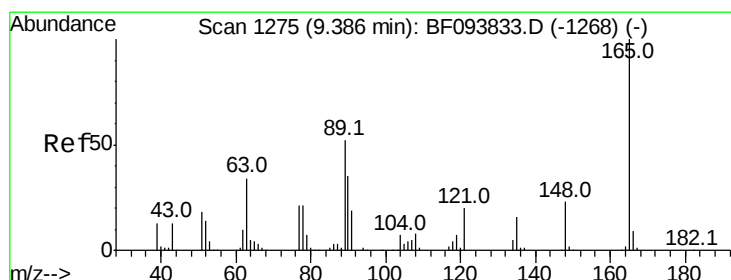
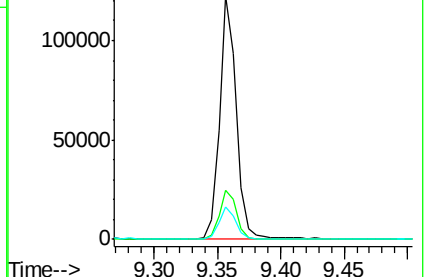
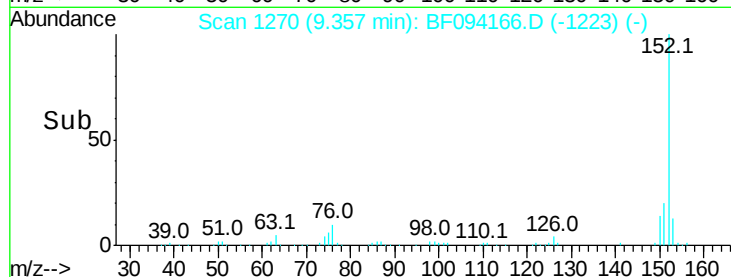
153 13.3 10.8 16.2



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E



#50

2,6-Dinitrotoluene

Concen: 7.87 ng

RT: 9.53 min Scan# 1300

Delta R.T. 0.23 min

Lab File: BF094166.D

Acq: 4 Apr 2017 13:41

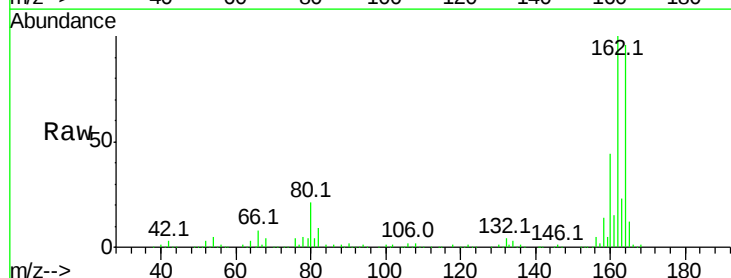
Tgt Ion:165 Resp: 29129

Ion Ratio Lower Upper

165 100

63 1.2 34.3 51.5#

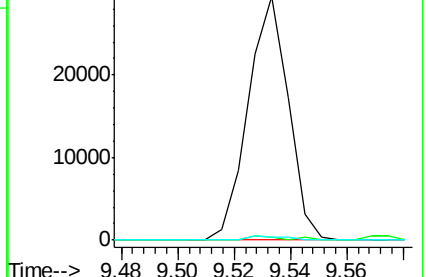
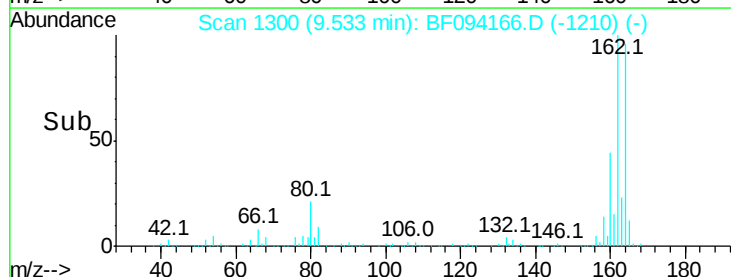
89 1.4 37.1 55.7#

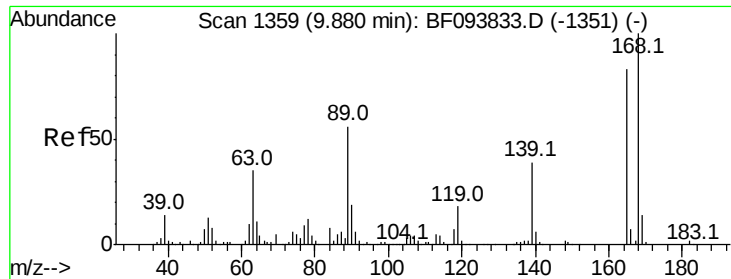


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF0

Ion 89.00 (88.70 to 89.70): BF0

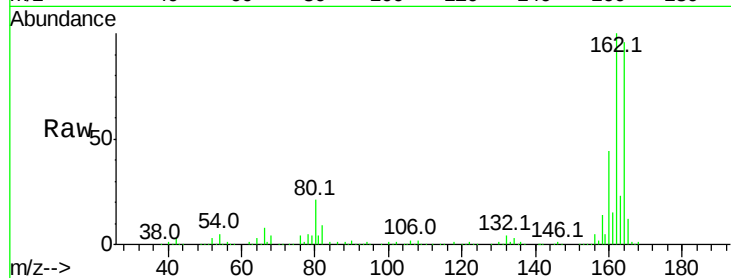




#56
 2,4-Dinitrotoluene
 Concen: 6.26 ng
 RT: 9.53 min Scan# 1300
 Delta R.T. -0.26 min
 Lab File: BF094166.D
 Acq: 4 Apr 2017 13:41

Instrument :
 BNA_F
 ClientSampleId :
 E2-M10-ESWDL

Tot Ion	Ratio	Lower	Upper
165	100		
63	1.2	25.4	38.0#
89	1.4	46.4	69.6#
182	0.0	1.8	2.6#

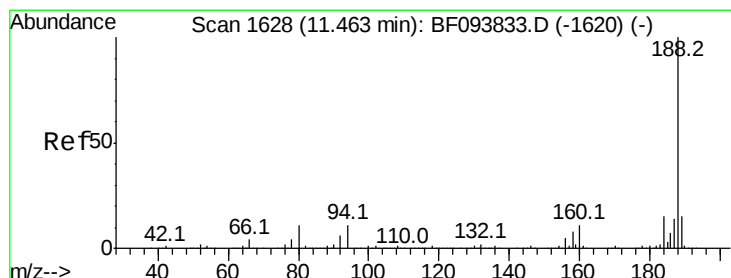
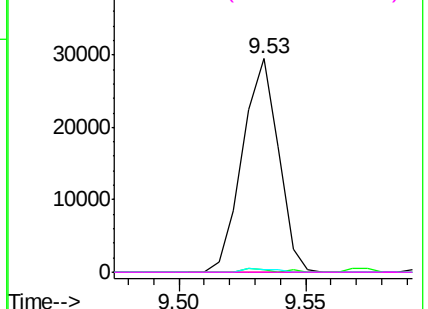
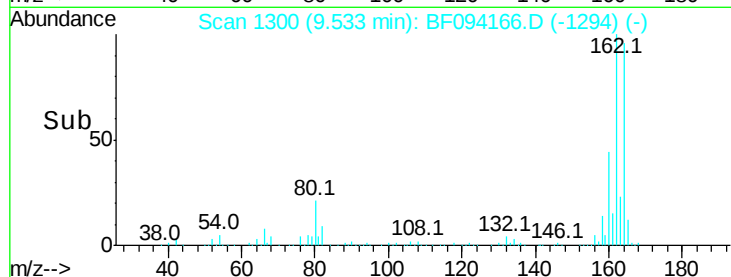


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF0

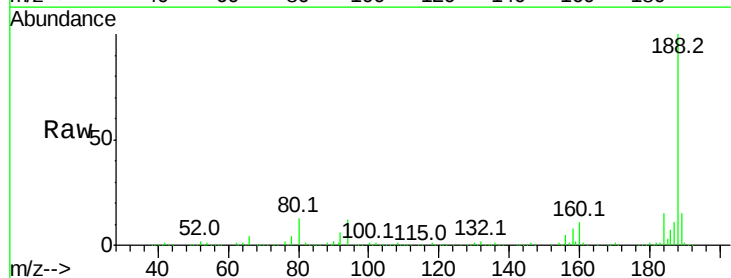
Ion 89.00 (88.70 to 89.70): BF0

Ion 182.00 (181.70 to 182.70): E



#63
 Phenanthrene-d10
 Concen: 20.00 ng
 RT: 11.36 min Scan# 1610
 Delta R.T. -0.02 min
 Lab File: BF094166.D
 Acq: 4 Apr 2017 13:41

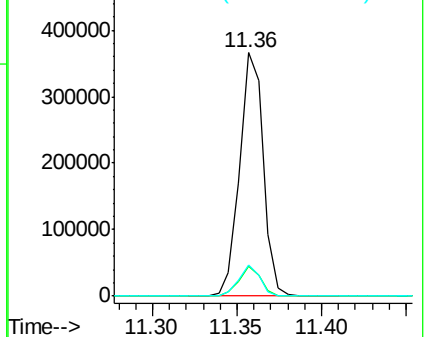
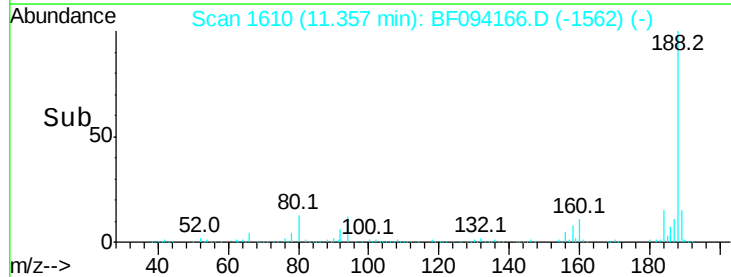
Tgt Ion	Ratio	Lower	Upper
188	100		
94	12.1	9.4	14.2
80	12.8	10.2	15.2

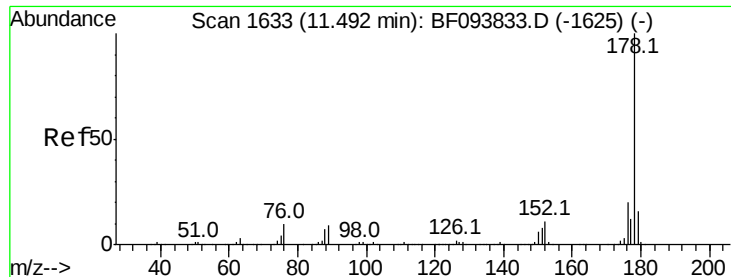


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0





#70

Phenanthrene

Concen: 5.46 ng

RT: 11.39 min Scan# 1615

Delta R.T. -0.02 min

Lab File: BF094166.D

Acq: 4 Apr 2017 13:41

Instrument :

BNA_F

ClientSampleId :

E2-M10-ESWDL

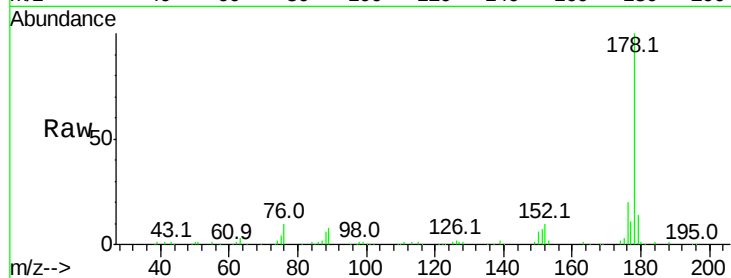
Tot Ion:178 Resp: 108273

Ion Ratio Lower Upper

178 100

176 19.7 16.2 24.4

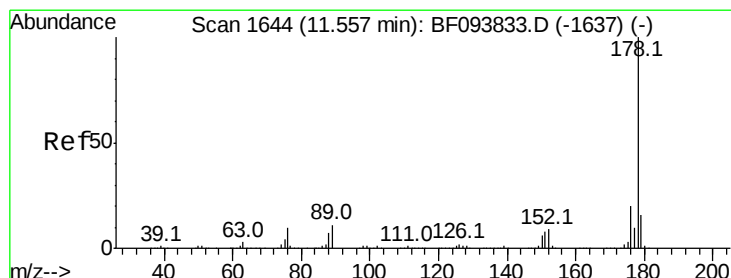
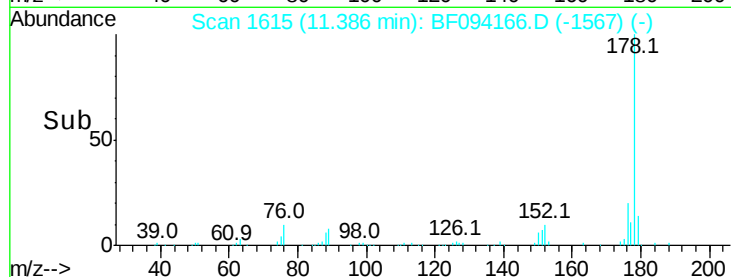
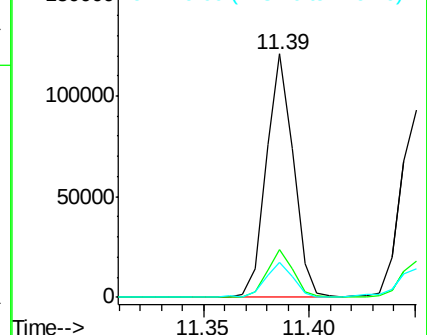
179 14.5 12.6 19.0



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: 4.52 ng

RT: 11.45 min Scan# 1626

Delta R.T. -0.02 min

Lab File: BF094166.D

Acq: 4 Apr 2017 13:41

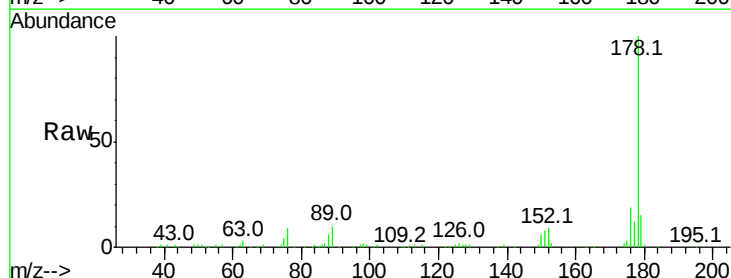
Tgt Ion:178 Resp: 92247

Ion Ratio Lower Upper

178 100

176 19.4 15.8 23.8

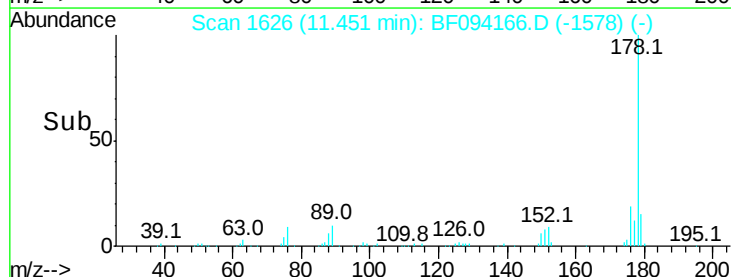
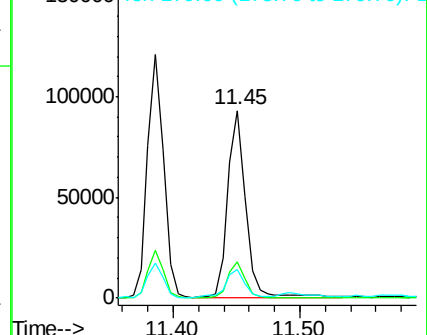
179 15.0 12.7 19.1

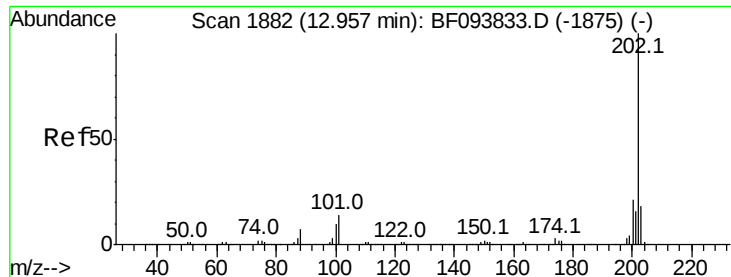


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#74

Fluoranthene

Concen: 23.96 ng

RT: 12.85 min Scan# 1864

Delta R.T. -0.02 min

Lab File: BF094166.D

Acq: 4 Apr 2017 13:41

Instrument :

BNA_F

ClientSampleId :

E2-M10-ESWDL

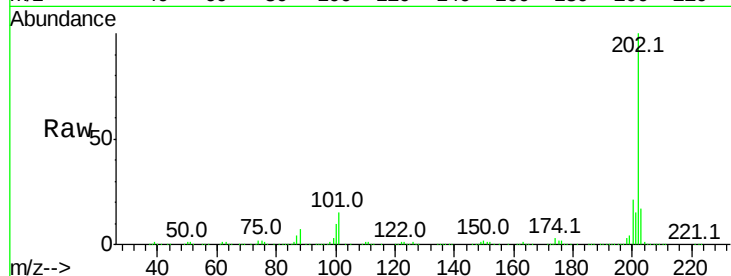
Tot Ion:202 Resp: 486534

Ion Ratio Lower Upper

202 100

101 14.6 0.0 33.2

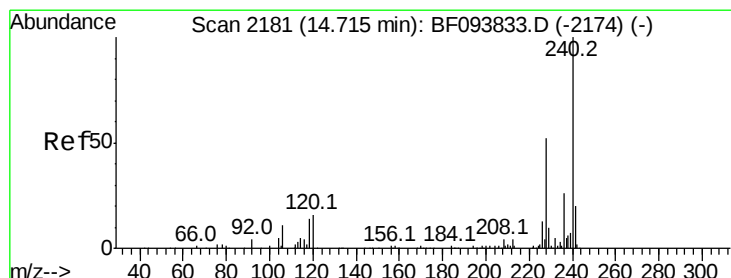
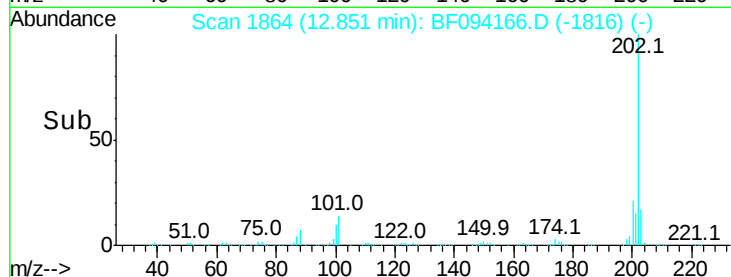
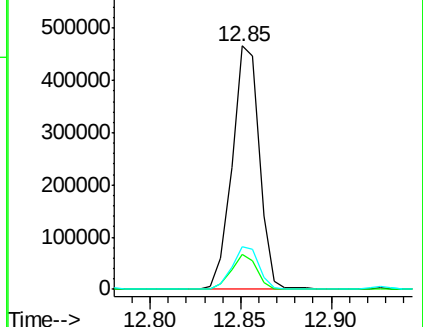
203 17.3 0.0 38.1



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: 14.62 min Scan# 2164

Delta R.T. -0.01 min

Lab File: BF094166.D

Acq: 4 Apr 2017 13:41

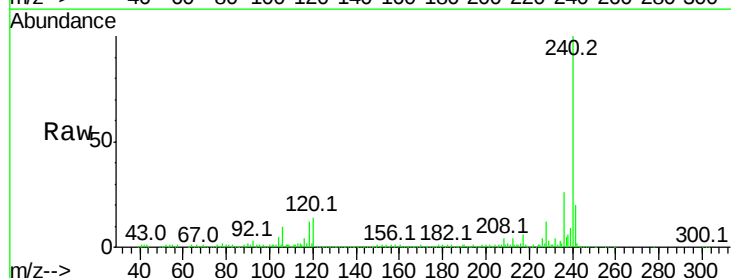
Tgt Ion:240 Resp: 306572

Ion Ratio Lower Upper

240 100

120 13.8 5.8 8.8#

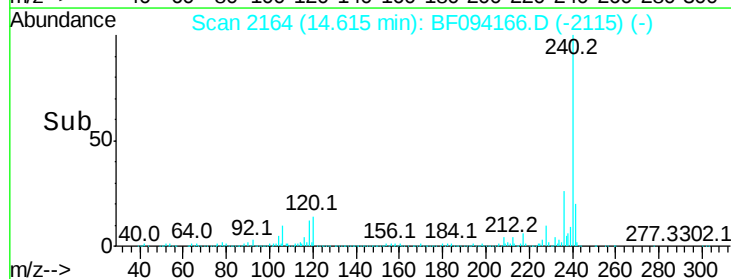
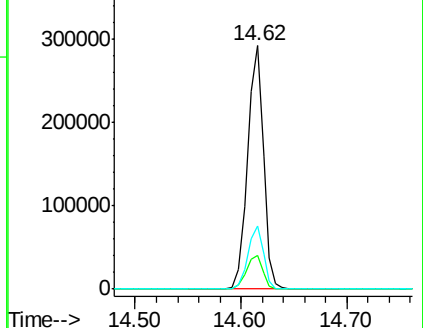
236 25.8 20.5 30.7

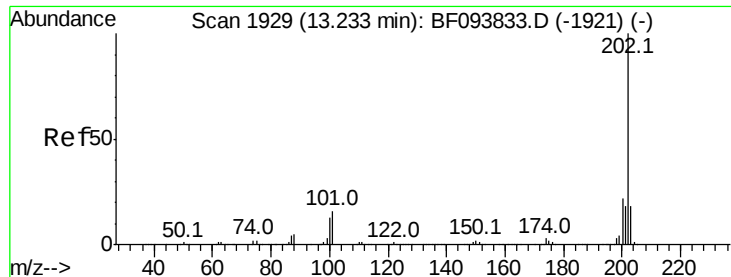


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#77

Pvrene

Concen: 19.46 ng

RT: 13.13 min Scan# 1911

Delta R.T. -0.02 min

Lab File: BF094166.D

Acq: 4 Apr 2017 13:41

Instrument :

BNA_F

ClientSampleId :

E2-M10-ESWDL

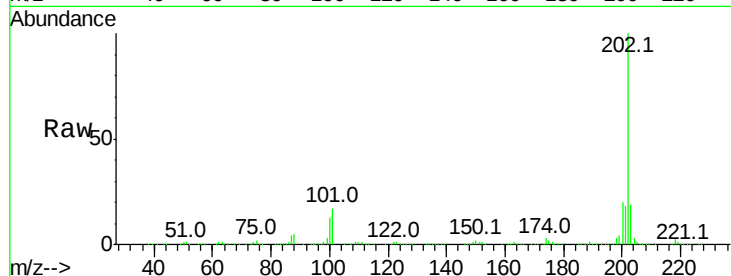
Tot Ion:202 Resp: 433059

Ion Ratio Lower Upper

202 100

200 20.5 17.6 26.4

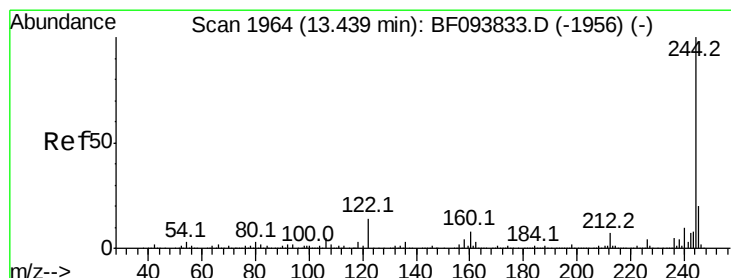
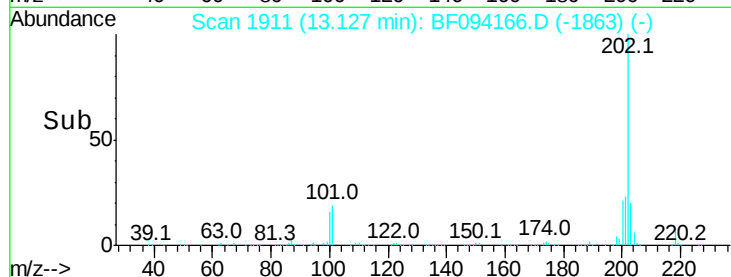
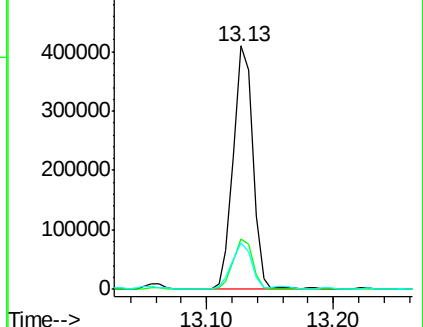
203 19.0 14.4 21.6



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: 5.85 ng

RT: 13.33 min Scan# 1946

Delta R.T. -0.02 min

Lab File: BF094166.D

Acq: 4 Apr 2017 13:41

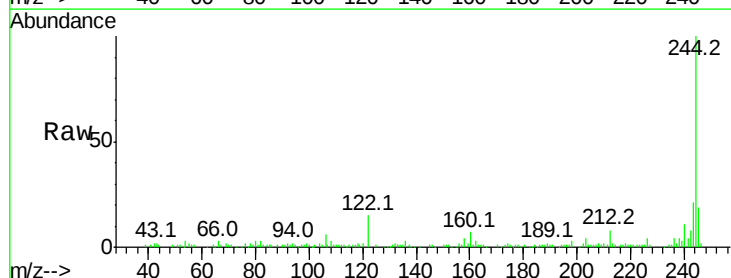
Tgt Ion:244 Resp: 80067

Ion Ratio Lower Upper

244 100

212 8.4 6.0 9.0

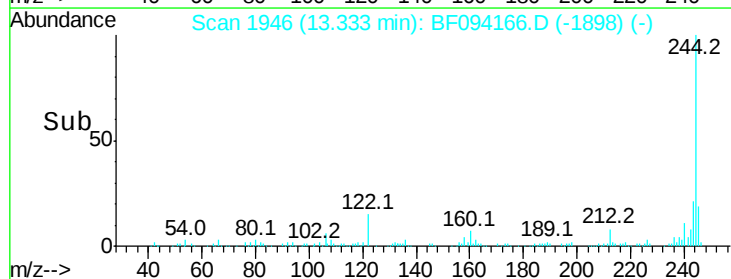
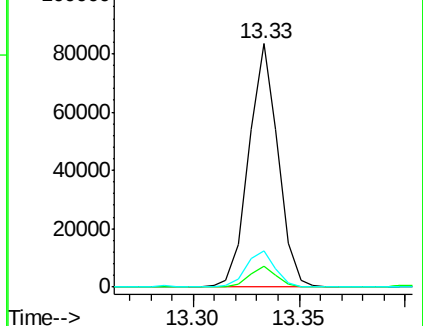
122 15.0 10.3 15.5

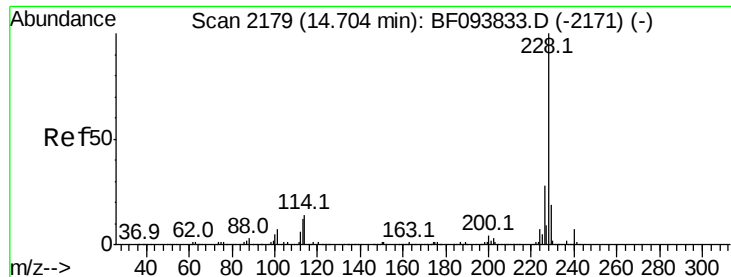


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#80

Benzo(a)anthracene

Concen: 13.90 ng

RT: 14.64 min Scan# 2169

Delta R.T. 0.03 min

Lab File: BF094166.D

Acq: 4 Apr 2017 13:41

Instrument :

BNA_F

ClientSampleId :

E2-M10-ESWDL

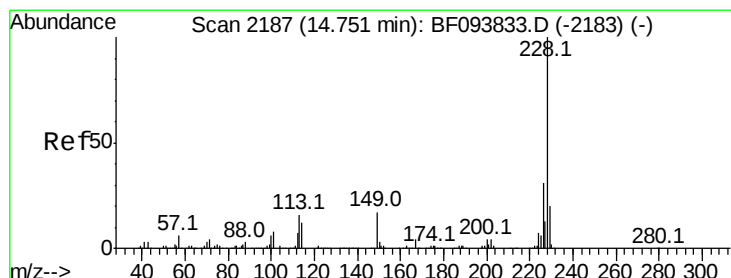
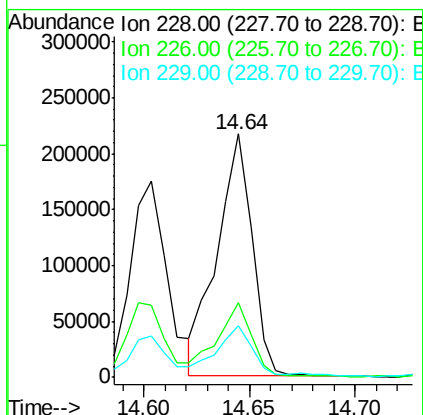
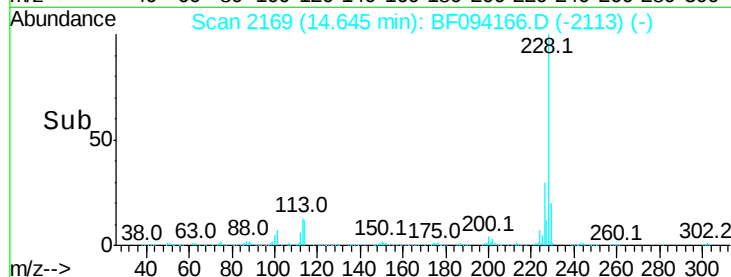
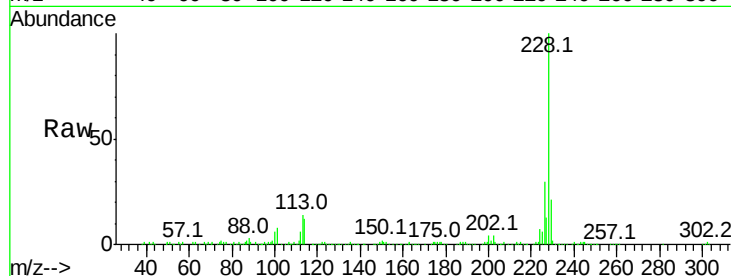
Tot Ion:228 Resp: 248579

Ion Ratio Lower Upper

228 100

226 30.5 22.6 33.8

229 21.2 16.3 24.5



#82

Chrysene

Concen: 14.98 ng

RT: 14.64 min Scan# 2169

Delta R.T. -0.02 min

Lab File: BF094166.D

Acq: 4 Apr 2017 13:41

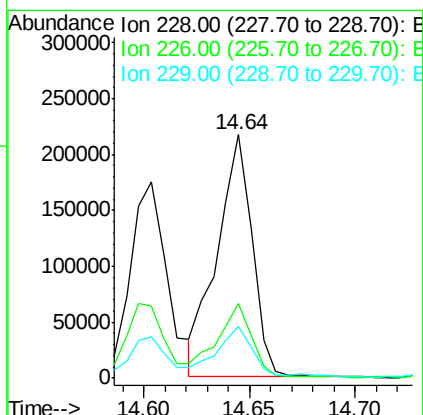
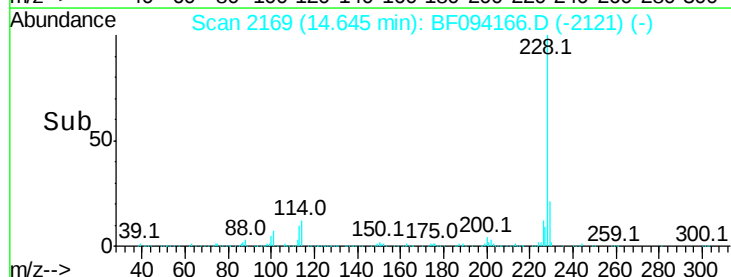
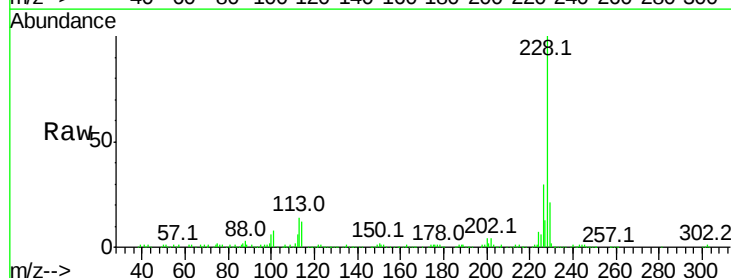
Tgt Ion:228 Resp: 248579

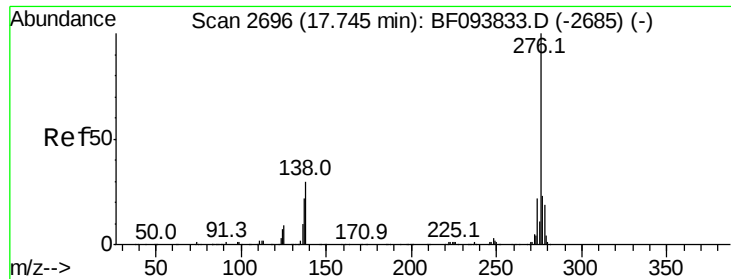
Ion Ratio Lower Upper

228 100

226 30.5 24.9 37.3

229 21.2 15.8 23.6

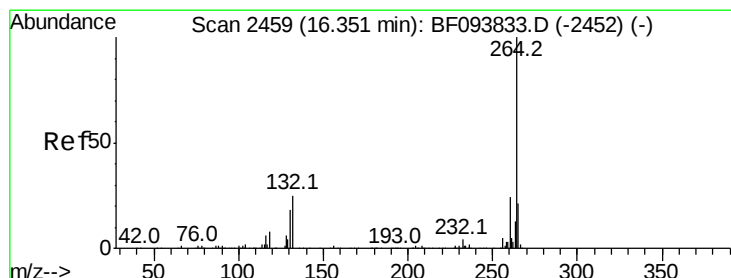
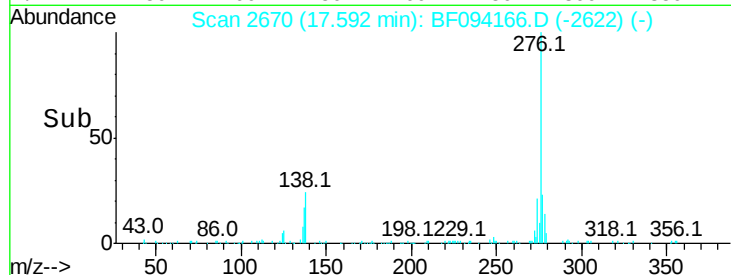
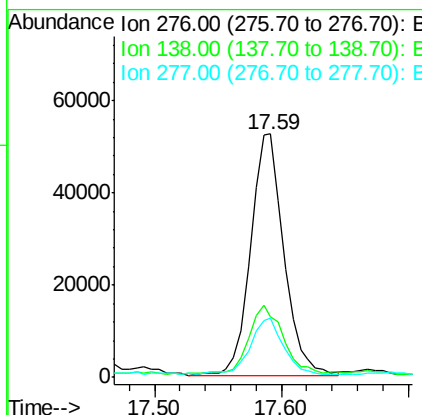
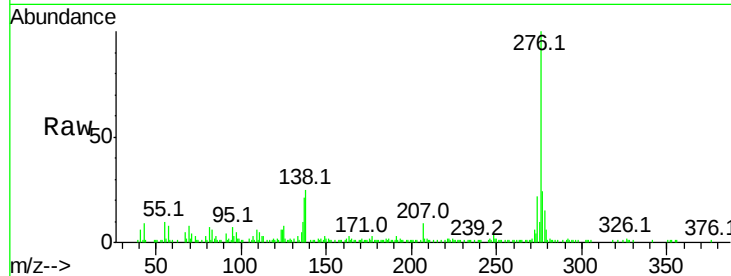




#85
 Indeno(1,2,3-cd)pyrene
 Concen: 6.65 ng
 RT: 17.59 min Scan# 2670
 Delta R.T. -0.02 min
 Lab File: BF094166.D
 Acq: 4 Apr 2017 13:41

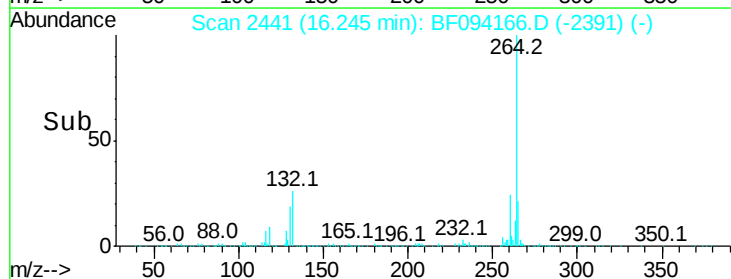
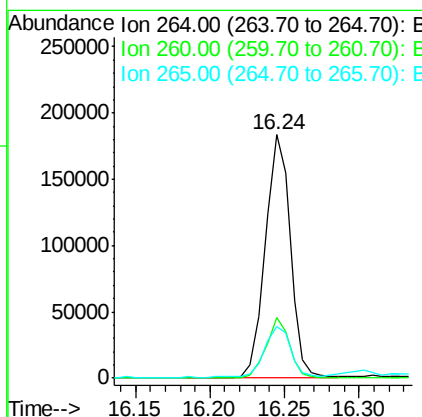
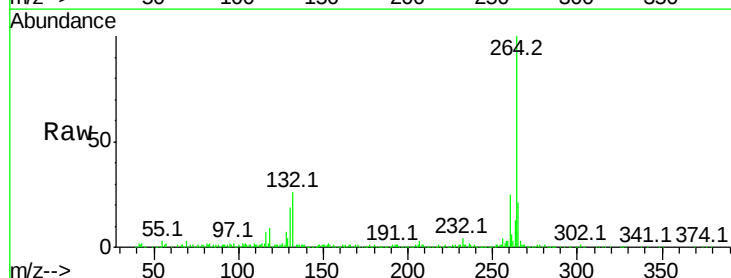
Instrument :
 BNA_F
 ClientSampleId :
 E2-M10-ESWDL

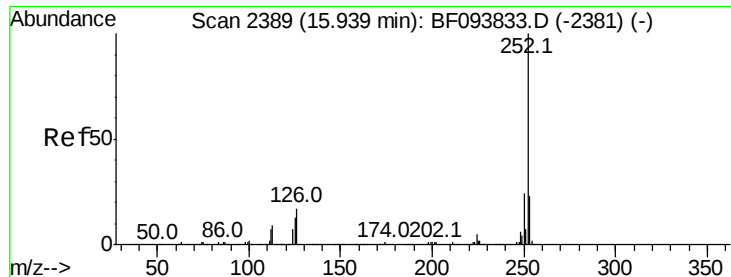
Tot Ion:276 Resp: 95525
 Ion Ratio Lower Upper
 276 100
 138 30.4 27.8 41.6
 277 23.5 20.2 30.4



#86
 Perylene-d12
 Concen: 20.00 ng
 RT: 16.24 min Scan# 2441
 Delta R.T. -0.01 min
 Lab File: BF094166.D
 Acq: 4 Apr 2017 13:41

Tgt Ion:264 Resp: 212713
 Ion Ratio Lower Upper
 264 100
 260 24.6 19.5 29.3
 265 21.3 17.2 25.8





#87

Benzo(b)fluoranthene

Concen: 29.51 ng

RT: 15.84 min Scan# 2372

Delta R.T. -0.01 min

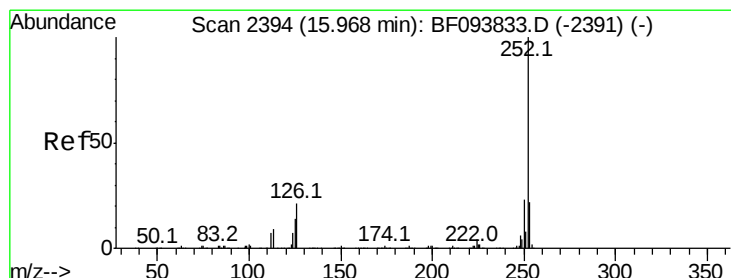
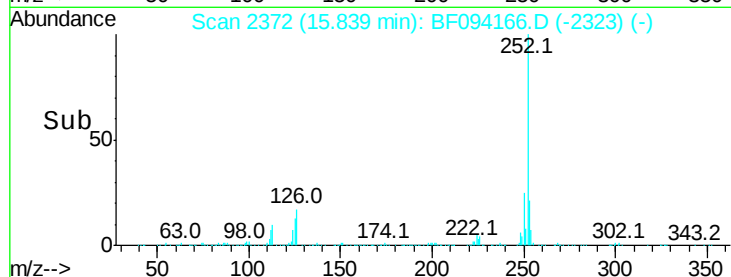
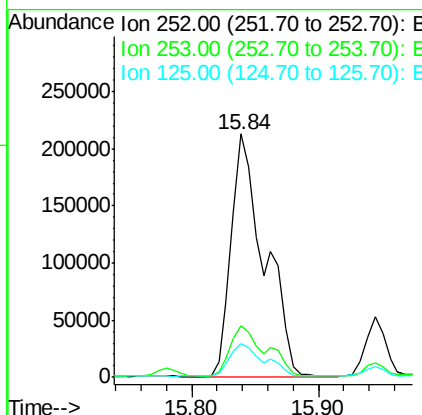
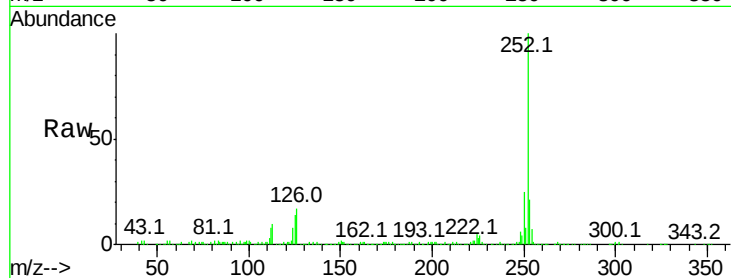
Lab File: BF094166.D

Acq: 4 Apr 2017 13:41

Instrument :
BNA_F
ClientSampleId :
E2-M10-ESWDL

Tot Ion:252 Resp: 384827

Ion	Ratio	Lower	Upper
252	100		
253	21.3	18.1	27.1
125	13.8	9.8	14.8



#88

Benzo(k)fluoranthene

Concen: 30.17 ng

RT: 15.84 min Scan# 2372

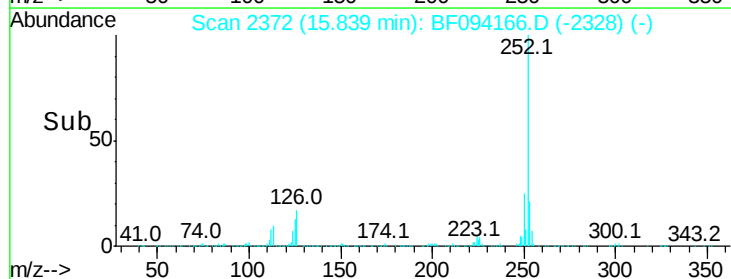
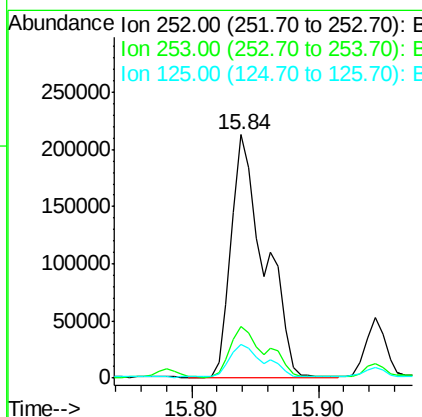
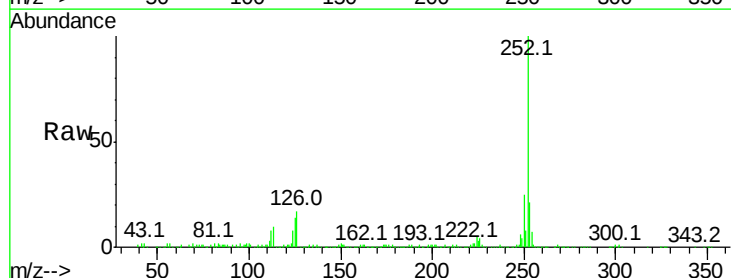
Delta R.T. -0.04 min

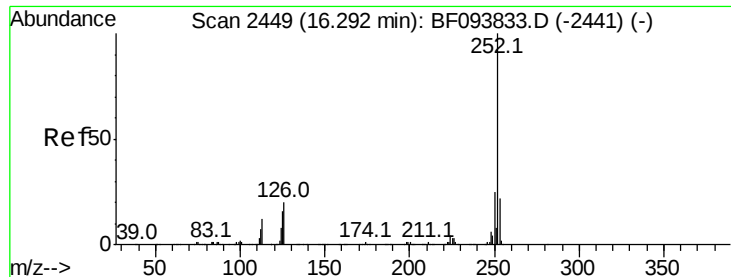
Lab File: BF094166.D

Acq: 4 Apr 2017 13:41

Tgt Ion:252 Resp: 384827

Ion	Ratio	Lower	Upper
252	100		
253	21.3	18.4	27.6
125	13.8	13.1	19.7

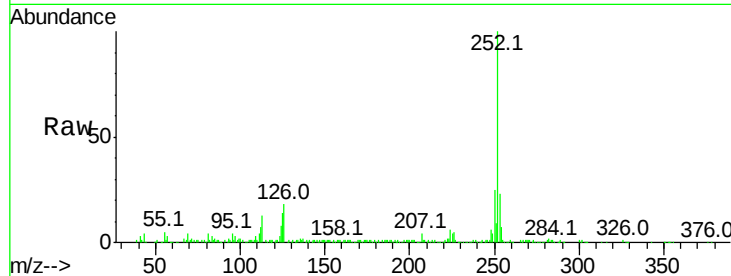




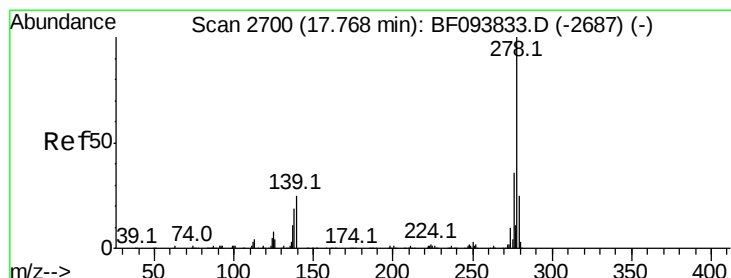
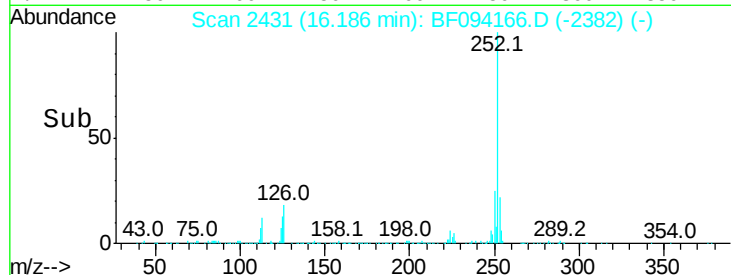
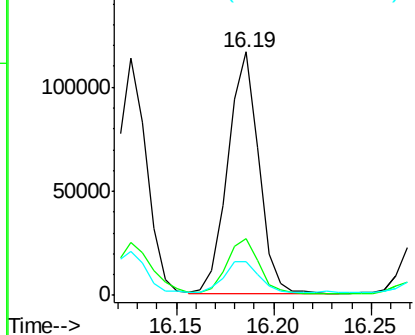
#89
Benzo(a)pyrene
Concen: 10.62 ng
RT: 16.19 min Scan# 2431
Delta R.T. -0.01 min
Lab File: BF094166.D
Acq: 4 Apr 2017 13:41

Instrument :
BNA_F
ClientSampleId :
E2-M10-ESWDL

Tot Ion:252 Resp: 127474
Ion Ratio Lower Upper
252 100
253 23.3 17.5 26.3
125 13.9 11.0 16.4

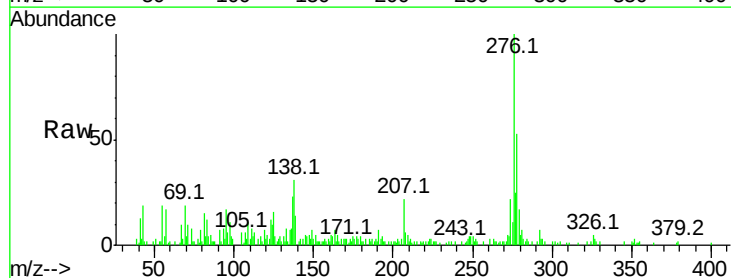


Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E

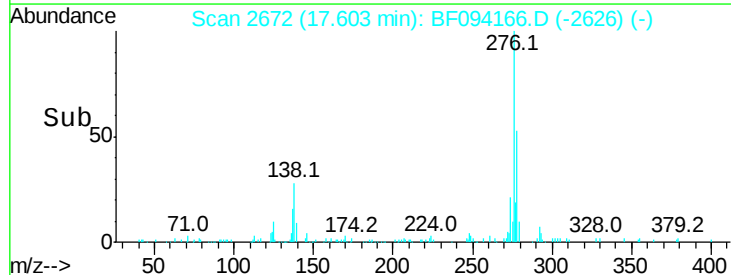
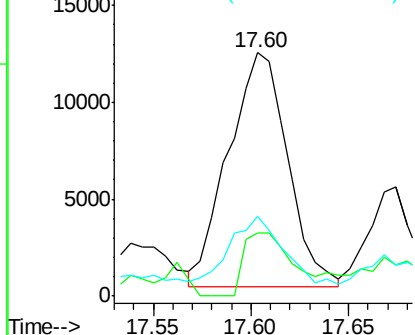


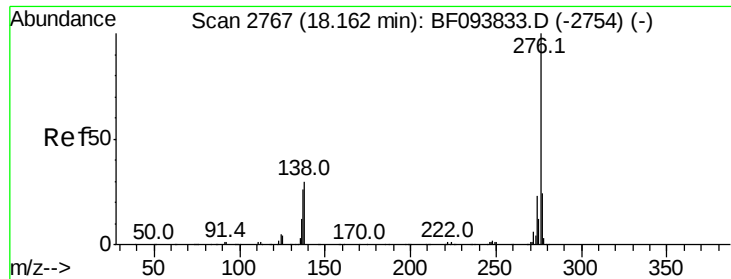
#90
Dibenzo(a,h)anthracene
Concen: 2.50 ng
RT: 17.60 min Scan# 2672
Delta R.T. -0.03 min
Lab File: BF094166.D
Acq: 4 Apr 2017 13:41

Tgt Ion:278 Resp: 25371
Ion Ratio Lower Upper
278 100
139 25.7 16.6 24.8#
279 32.5 19.3 28.9#



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





#91
 Benzo(a,h,i)perylene
 Concen: 7.74 ng
 RT: 17.99 min Scan# 2737
 Delta R.T. -0.02 min
 Lab File: BF094166.D
 Acq: 4 Apr 2017 13:41

Instrument :
 BNA_F
 ClientSampleId :
 E2-M10-ESWDL

Tot Ion	Ratio	Lower	Upper
276	100		
277	25.8	18.6	28.0
138	31.6	25.4	38.0

