

Data Path : V:\HPCHEM1\BNA F\DATA\BF121515\
 Data File : BF083824.D
 Acq On : 15 Dec 2015 17:55
 Operator : UM/IZ
 Sample : G4739-13
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 K211-13-14

Quant Time: Dec 16 11:44:42 2015
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF121315.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Dec 14 01:30:12 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.90	152	89717m	20.00	ng	-0.02
21) Naphthalene-d8	8.19	136	390623m	20.00	ng	-0.02
38) Acenaphthene-d10	9.95	164	204018m	20.00	ng	-0.01
63) Phenanthrene-d10	11.44	188	273989m	20.00	ng	-0.01
75) Chrysene-d12	14.08	240	204789	20.00	ng	0.00
86) Perylene-d12	15.52	264	177341	20.00	ng	0.01

System Monitoring Compounds						
5) 2-Fluorophenol	5.52	112	690799	124.22	ng	-0.01
7) Phenol-d6	6.54	99	959279	136.21	ng	0.00
23) Nitrobenzene-d5	7.47	82	587725	84.18	ng	-0.01
41) 2,4,6-Tribromophenol	10.74	330	224194	107.84	ng	-0.01
44) 2-Fluorobiphenyl	9.26	172	918745	60.74	ng	-0.02
78) Terphenyl-d14	13.02	244	652589	68.55	ng	0.00

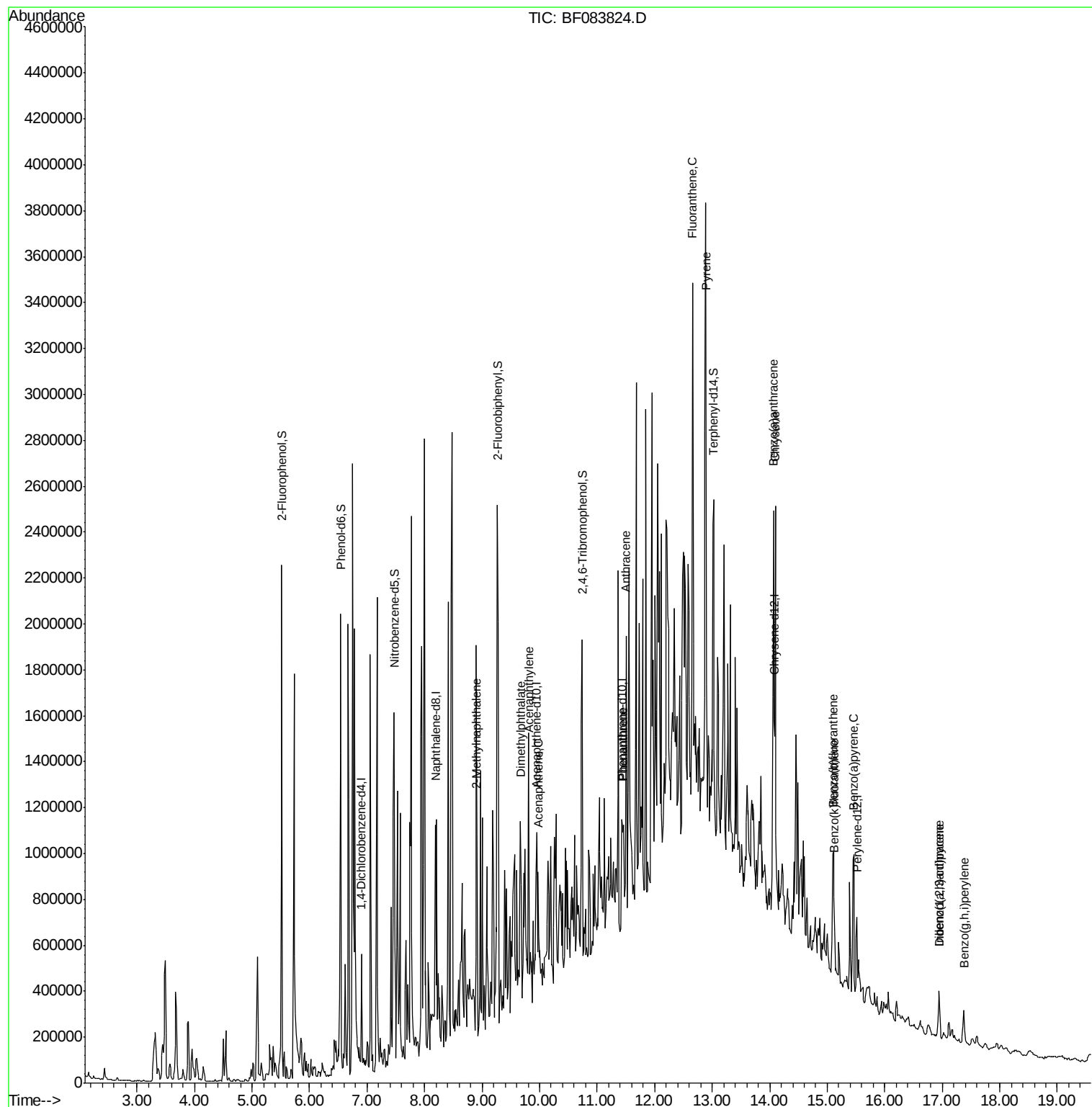
Target Compounds				Qvalue		
37) 2-Methylnaphthalene	8.91	142	180181m	14.09	ng	
48) Acenaphthylene	9.81	152	474695	21.14	ng	98
49) Dimethylphthalate	9.66	163	127498m	8.02	ng	
51) Acenaphthene	9.97	154	94967	7.00	ng	96
70) Phenanthrene	11.46	178	230823m	15.86	ng	
71) Anthracene	11.50	178	514351m	34.02	ng	
74) Fluoranthene	12.66	202	966788	64.28	ng	95
77) Pyrene	12.89	202	1481393	91.52	ng	97
80) Benzo(a)anthracene	14.06	228	784504	67.37	ng	93
82) Chrysene	14.10	228	727115m	64.02	ng	
85) Indeno(1,2,3-cd)pyrene	16.95	276	118436	10.62	ng	# 100
87) Benzo(b)fluoranthene	15.11	252	433225m	38.29	ng	
88) Benzo(k)fluoranthene	15.12	252	79459m	7.75	ng	
89) Benzo(a)pyrene	15.46	252	370217	36.67	ng	# 95
90) Dibenzo(a,h)anthracene	16.95	278	43596	4.34	ng	# 81
91) Benzo(g,h,i)perylene	17.38	276	117071	11.34	ng	99

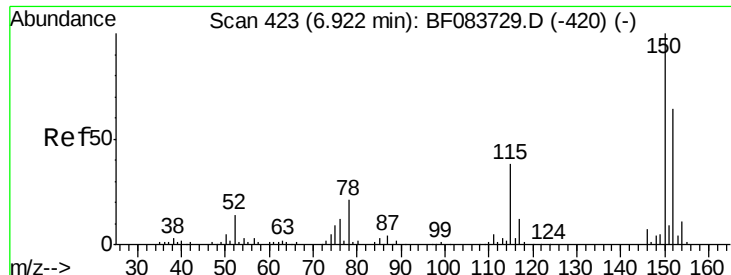
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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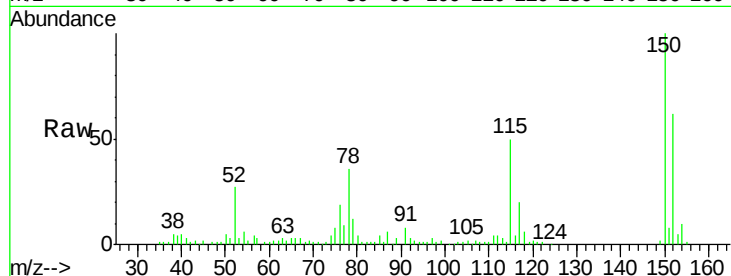


#1

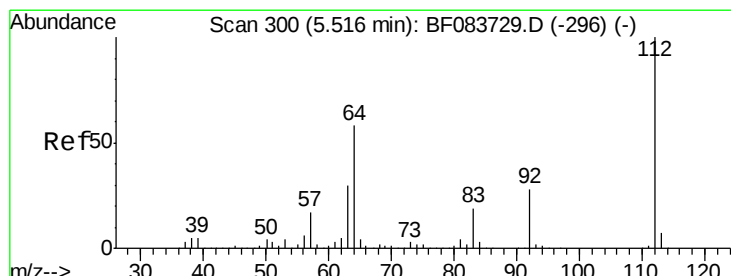
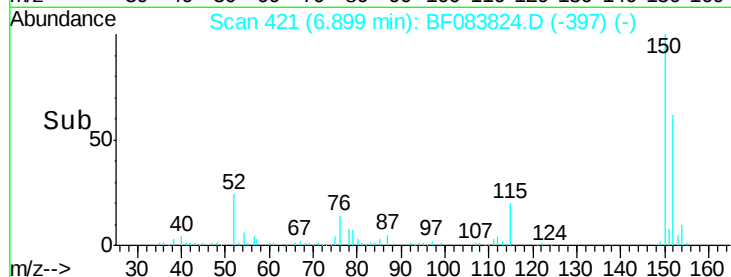
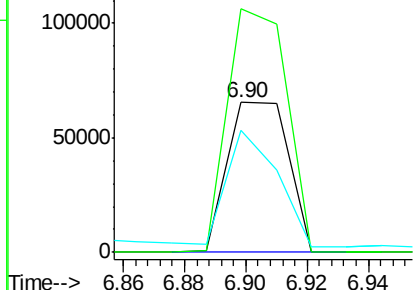
1,4-Dichlorobenzene-d4
Concen: 20.00 ng/ml
RT: 6.90 min Scan# 421
Delta R.T. -0.02 min
Lab File: BF083824.D
Acq: 15 Dec 2015 17:55

Instrument :
BNA_F
ClientSampleId :
K211-13-14

Tot Ion:152 Resp: 89717
Ion Ratio Lower Upper
152 100
150 162.3 126.5 189.7
115 81.4 52.3 78.5#



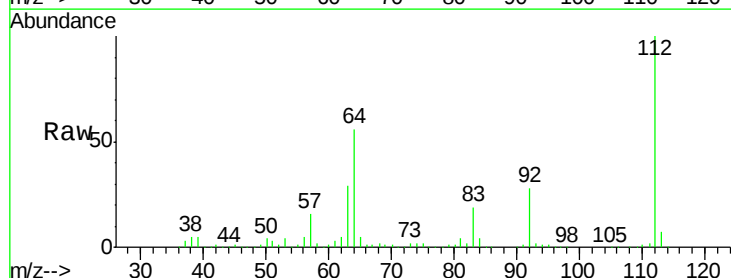
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



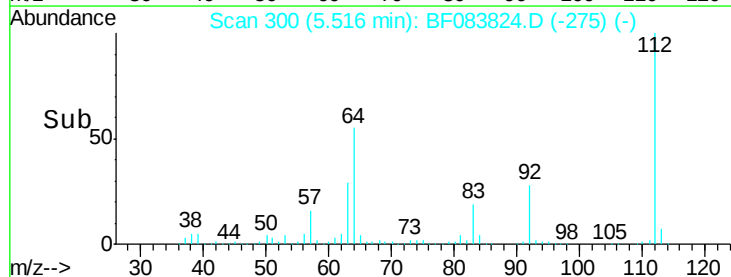
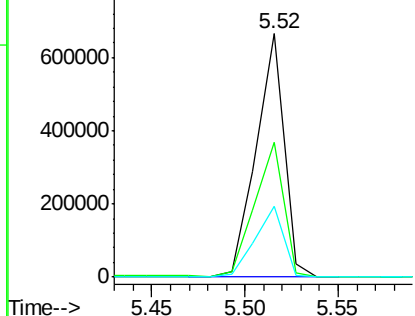
#5

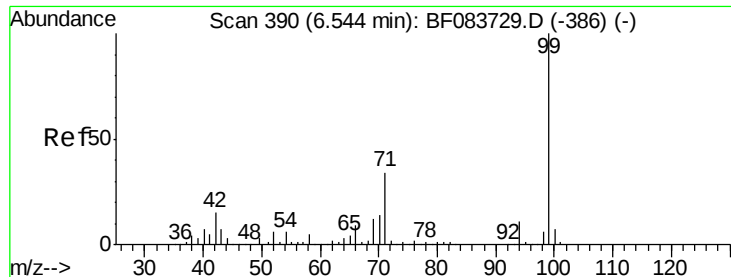
2-Fluorophenol
Concen: 124.22 ng
RT: 5.52 min Scan# 300
Delta R.T. -0.01 min
Lab File: BF083824.D
Acq: 15 Dec 2015 17:55

Tgt Ion:112 Resp: 690799
Ion Ratio Lower Upper
112 100
64 55.5 50.5 75.7
63 29.1 25.8 38.6



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: 136.21 ng

RT: 6.54 min Scan# 390

Delta R.T. -0.00 min

Lab File: BF083824.D

Acq: 15 Dec 2015 17:55

Instrument :

BNA_F

ClientSampleId :

K211-13-14

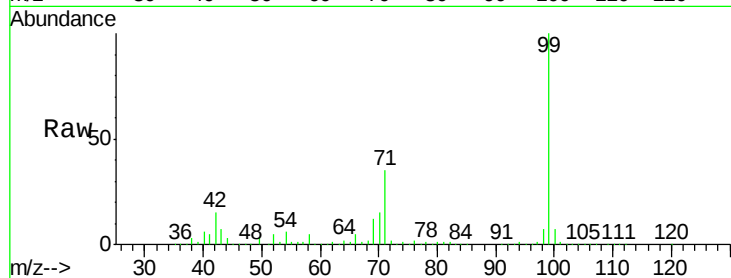
Tot Ion: 99 Resp: 959279

Ion Ratio Lower Upper

99 100

42 14.8 17.3 25.9#

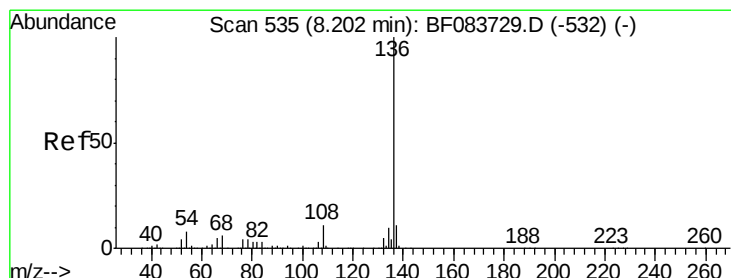
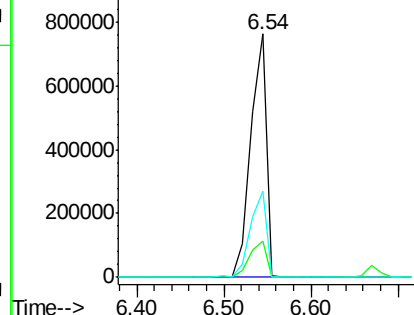
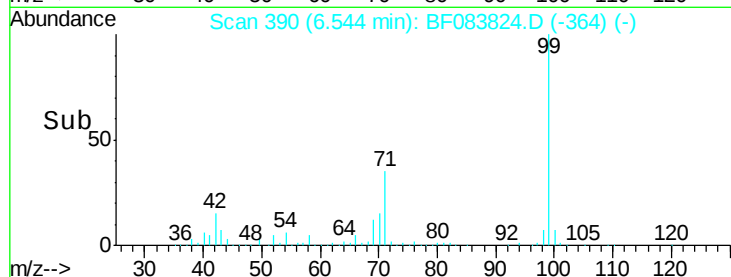
71 35.2 26.6 40.0



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 m

RT: 8.19 min Scan# 534

Delta R.T. -0.02 min

Lab File: BF083824.D

Acq: 15 Dec 2015 17:55

Tgt Ion: 136 Resp: 390623

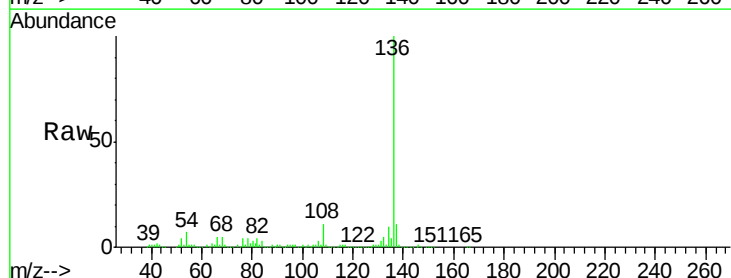
Ion Ratio Lower Upper

136 100

137 11.2 8.7 13.1

54 6.8 7.8 11.6#

68 5.5 5.7 8.5#

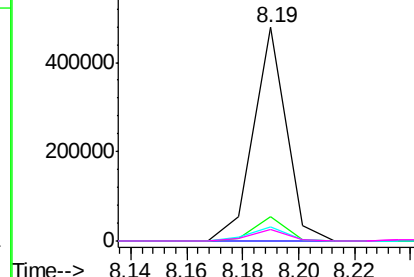
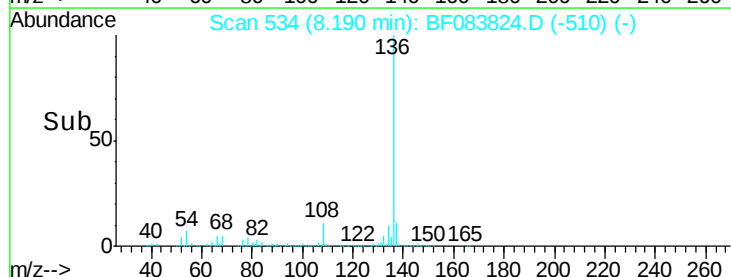


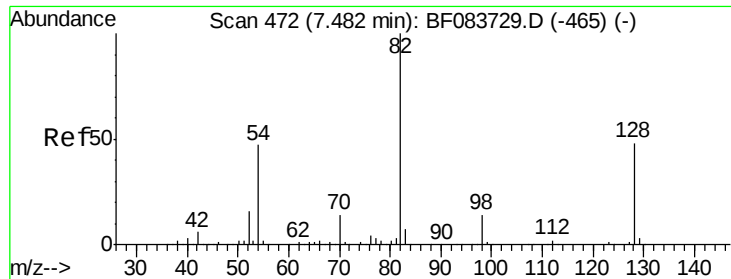
Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF0

Ion 68.00 (67.70 to 68.70): BF0

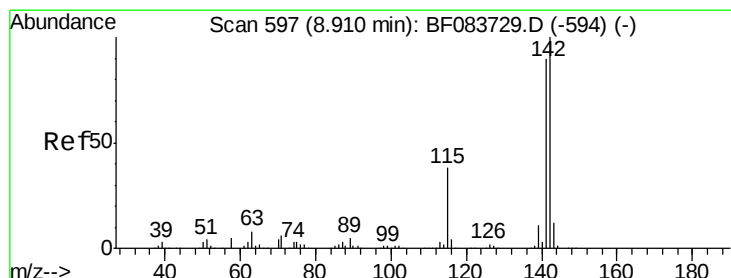
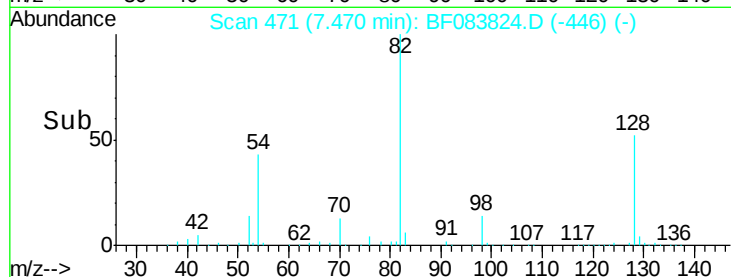
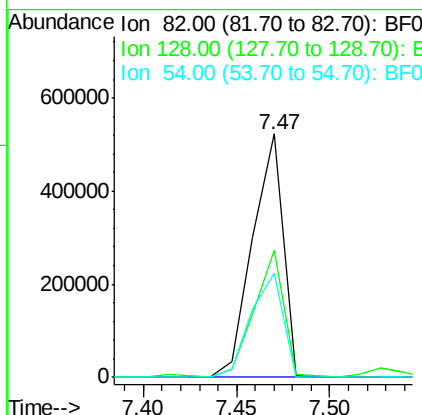
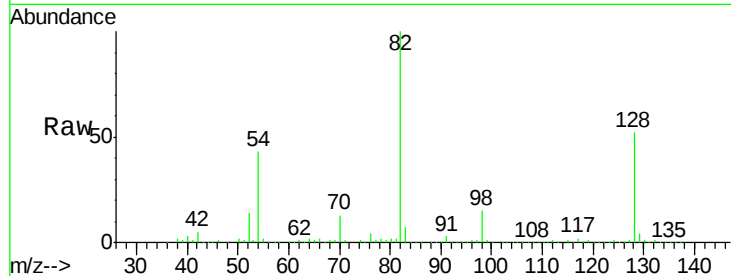




#23
 Nitrobenzene-d5
 Concen: 84.18 ng
 RT: 7.47 min Scan# 471
 Delta R.T. -0.01 min
 Lab File: BF083824.D
 Acq: 15 Dec 2015 17:55

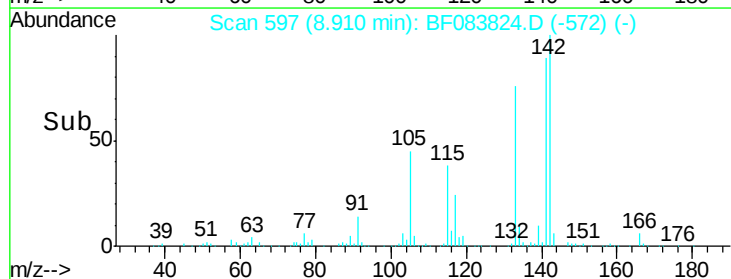
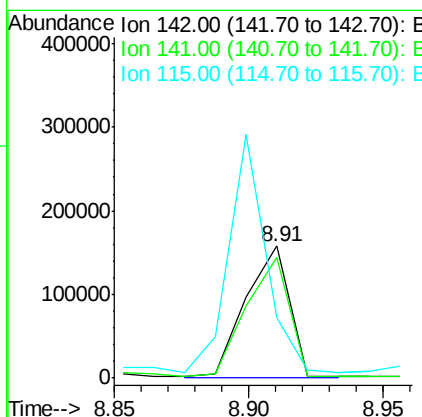
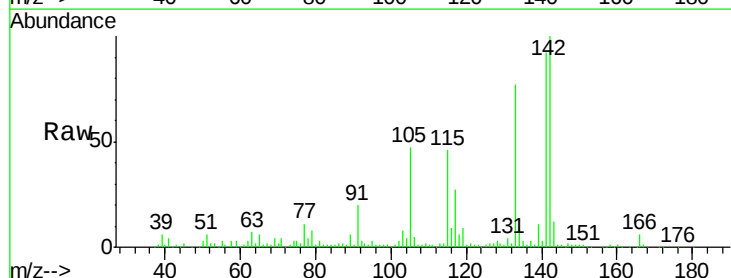
Instrument :
 BNA_F
 ClientSampleId :
 K211-13-14

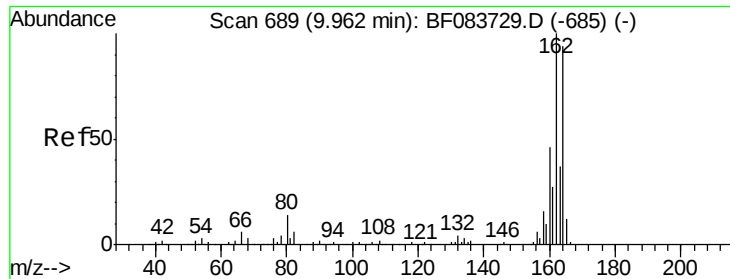
Tot Ion: 82 Resp: 587725
 Ion Ratio Lower Upper
 82 100
 128 52.1 30.7 46.1#
 54 42.7 42.5 63.7



#37
 2-Methylnaphthalene
 Concen: 14.09 ng m
 RT: 8.91 min Scan# 597
 Delta R.T. -0.01 min
 Lab File: BF083824.D
 Acq: 15 Dec 2015 17:55

Tgt Ion: 142 Resp: 180181
 Ion Ratio Lower Upper
 142 100
 141 91.8 70.3 105.5
 115 46.3 29.2 43.8#





#38

Acenaphthene-d10

Concen: 20.00 ng/mL

RT: 9.95 min Scan# 688

Delta R.T. -0.01 min

Lab File: BF083824.D

Acq: 15 Dec 2015 17:55

Instrument :

BNA_F

ClientSampleId :

K211-13-14

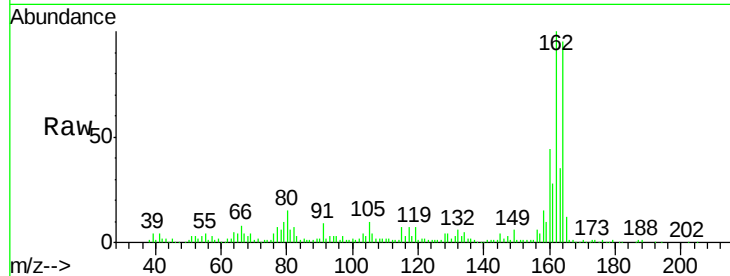
Tot Ion:164 Resp: 204018

Ion Ratio Lower Upper

164 100

162 105.5 78.8 118.2

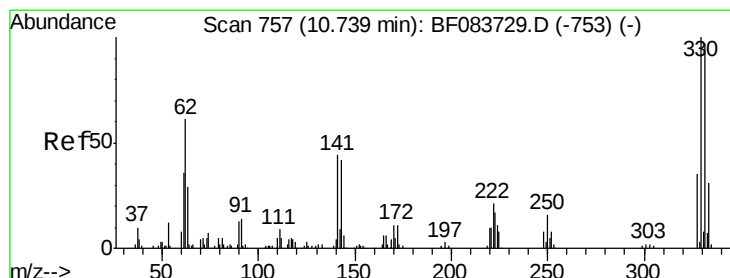
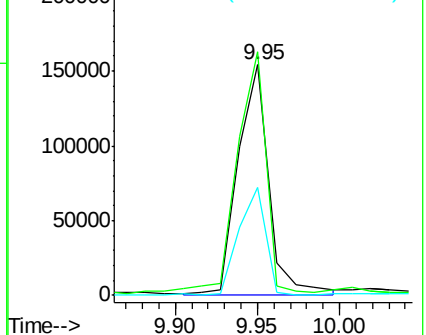
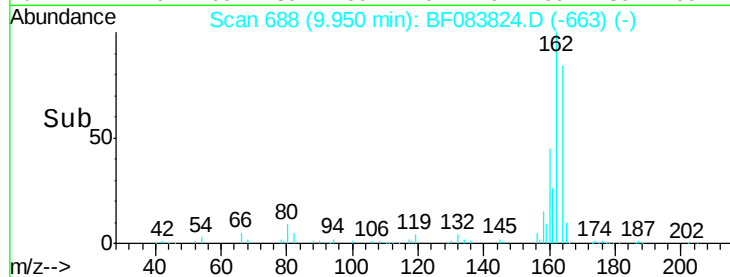
160 46.9 33.4 50.2



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: 107.84 ng/mL

RT: 10.74 min Scan# 757

Delta R.T. -0.01 min

Lab File: BF083824.D

Acq: 15 Dec 2015 17:55

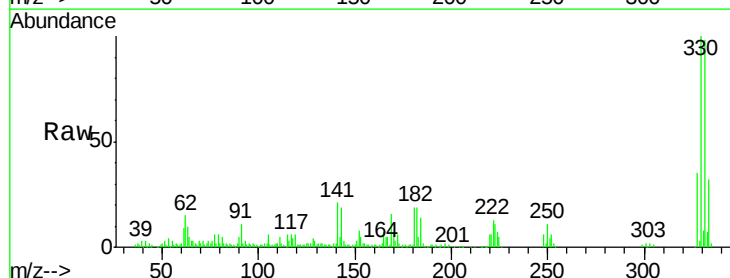
Tgt Ion:330 Resp: 224194

Ion Ratio Lower Upper

330 100

332 96.9 0.0 0.0#

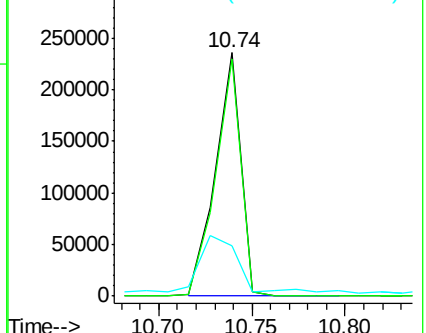
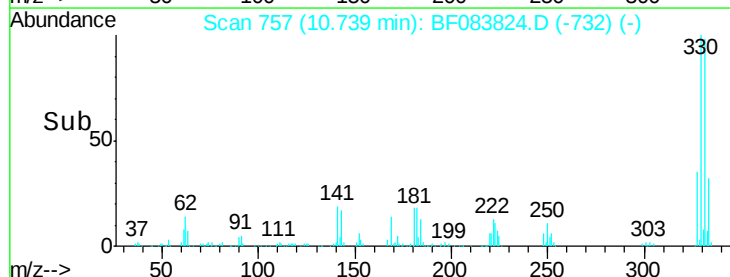
141 29.3 0.0 0.0#

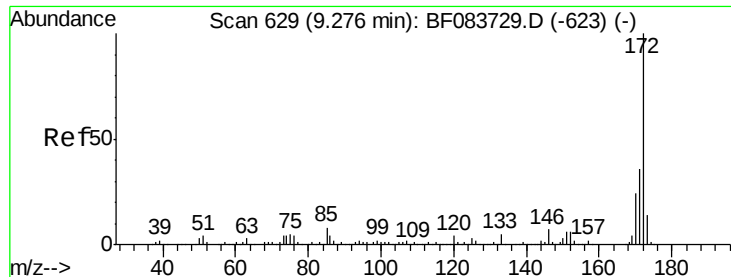


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

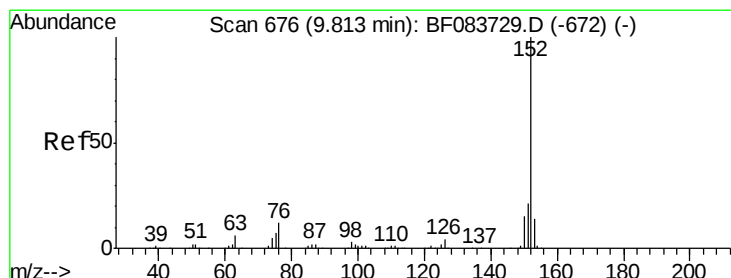
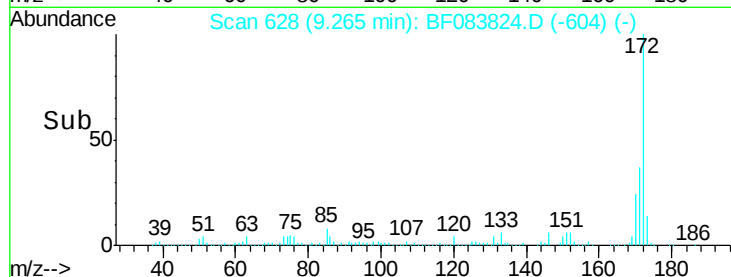
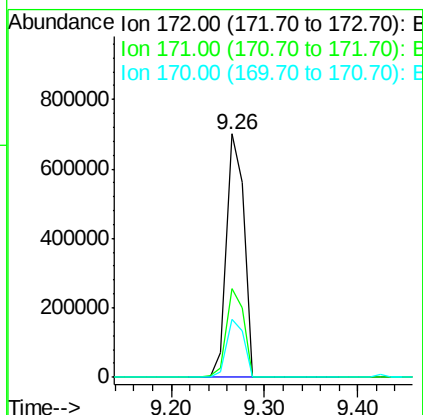
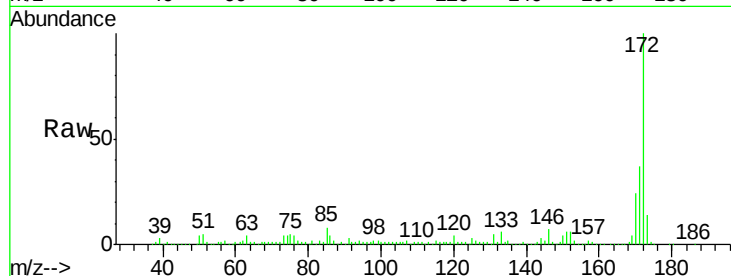




#44
2-Fluorobiphenyl
Concen: 60.74 ng
RT: 9.26 min Scan# 628
Delta R.T. -0.02 min
Lab File: BF083824.D
Acq: 15 Dec 2015 17:55

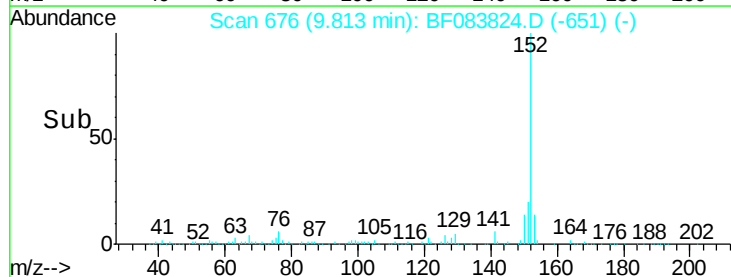
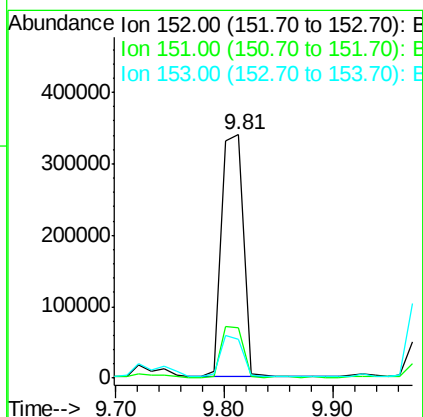
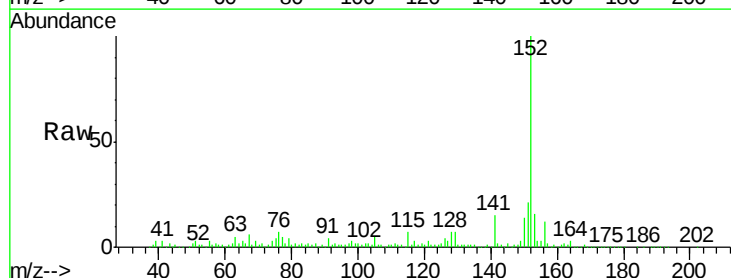
Instrument :
BNA_F
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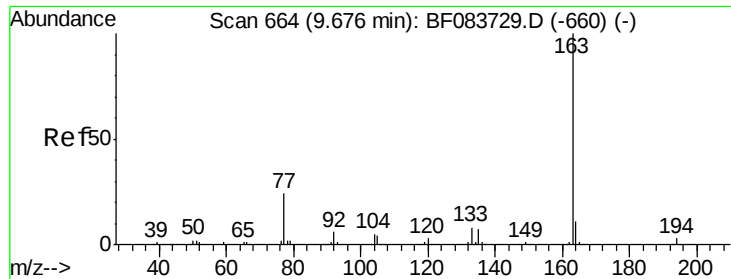
Tot Ion:172 Resp: 918745
Ion Ratio Lower Upper
172 100
171 36.6 28.6 42.8
170 24.0 19.4 29.0



#48
Acenaphthylene
Concen: 21.14 ng
RT: 9.81 min Scan# 676
Delta R.T. -0.01 min
Lab File: BF083824.D
Acq: 15 Dec 2015 17:55

Tgt Ion:152 Resp: 474695
Ion Ratio Lower Upper
152 100
151 20.5 16.3 24.5
153 15.8 10.8 16.2





#49

Dimethylphthalate

Concen: 8.02 ng m

RT: 9.66 min Scan# 663

Delta R.T. -0.02 min

Lab File: BF083824.D

Acq: 15 Dec 2015 17:55

Instrument :

BNA_F

ClientSampleId :

K211-13-14

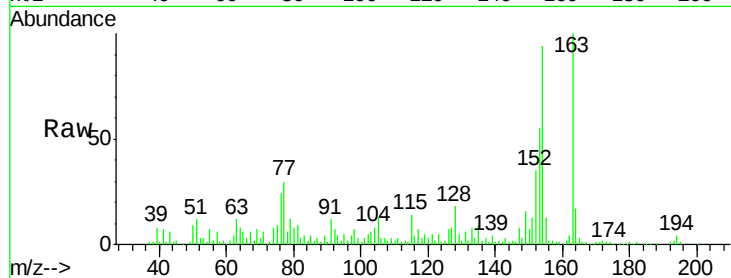
Tot Ion:163 Resp: 127498

Ion Ratio Lower Upper

163 100

194 4.3 2.8 4.2#

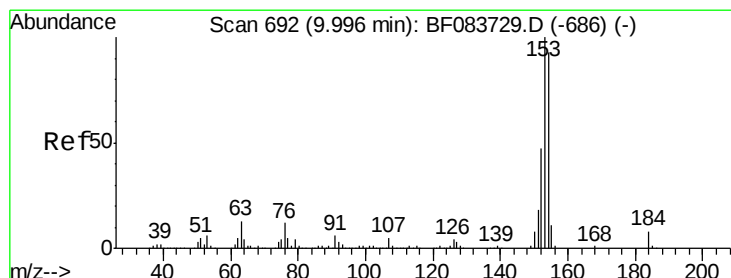
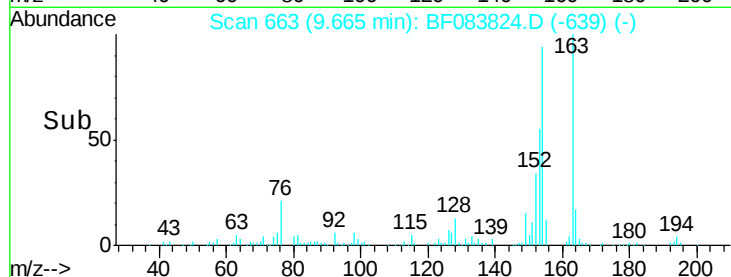
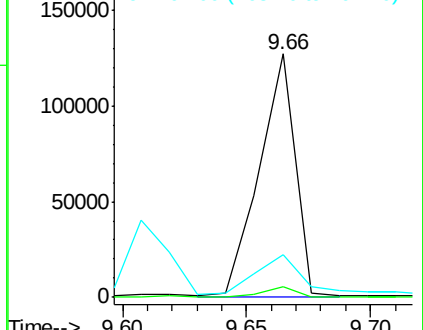
164 17.3 8.6 13.0#



Abundance Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E



#51

Acenaphthene

Concen: 7.00 ng

RT: 9.97 min Scan# 690

Delta R.T. -0.02 min

Lab File: BF083824.D

Acq: 15 Dec 2015 17:55

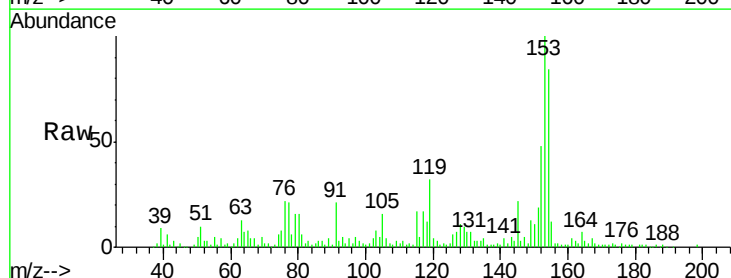
Tgt Ion:154 Resp: 94967

Ion Ratio Lower Upper

154 100

153 118.9 91.4 137.0

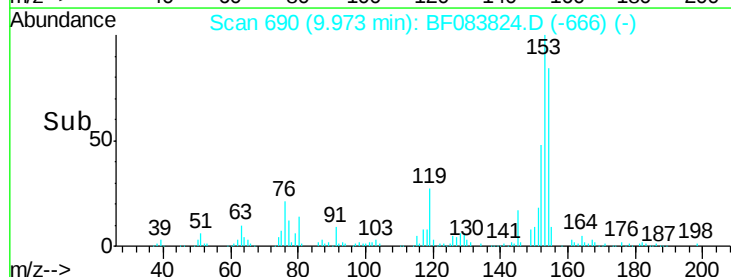
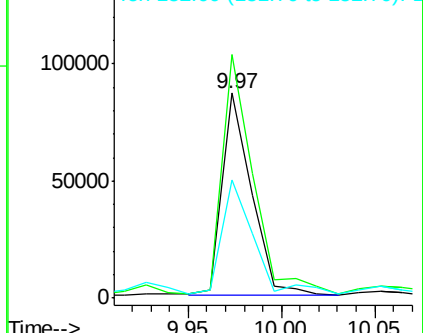
152 57.6 43.4 65.2

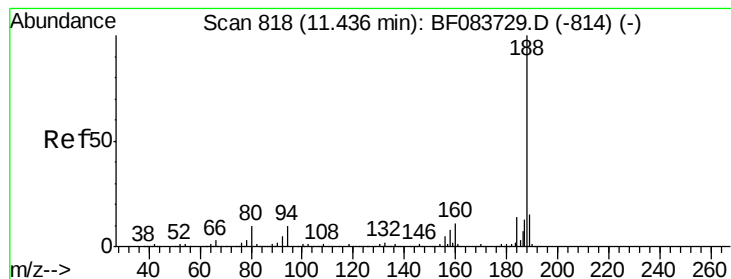


Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E





#63

Phenanthrene-d10

Concen: 20.00 ng m

RT: 11.44 min Scan# 818

Delta R.T. -0.01 min

Lab File: BF083824.D

Acq: 15 Dec 2015 17:55

Instrument :

BNA_F

ClientSampleId :

K211-13-14

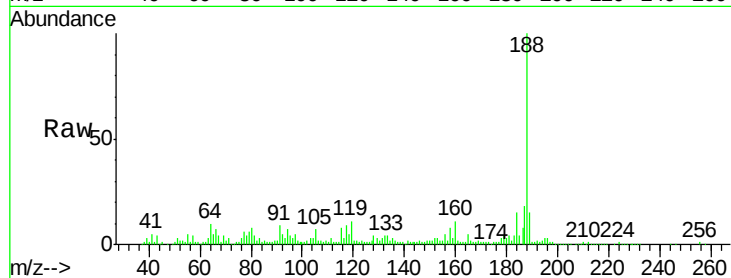
Tot Ion:188 Resp: 273989

Ion Ratio Lower Upper

188 100

94 7.3 9.4 14.2#

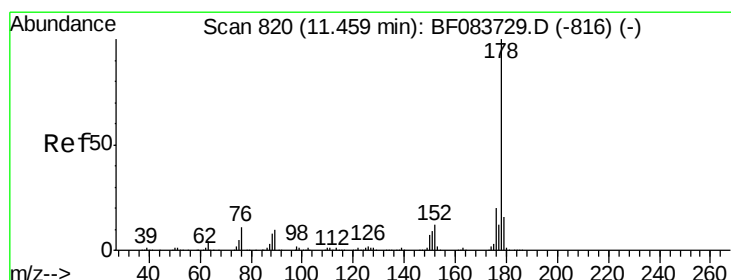
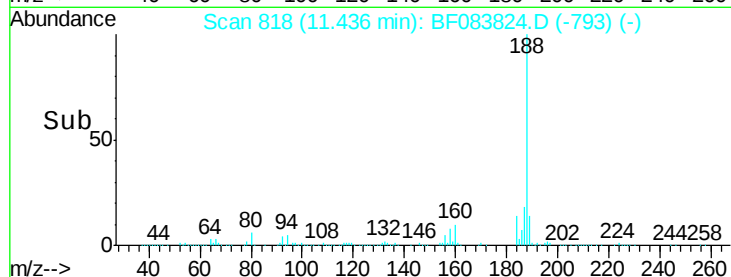
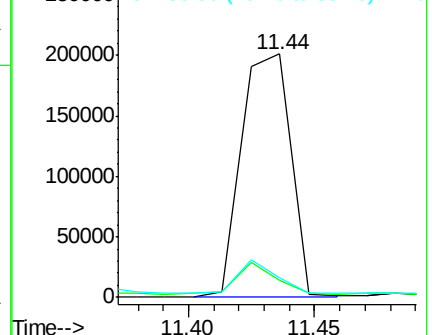
80 8.0 10.6 16.0#



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: 15.86 ng m

RT: 11.46 min Scan# 820

Delta R.T. -0.01 min

Lab File: BF083824.D

Acq: 15 Dec 2015 17:55

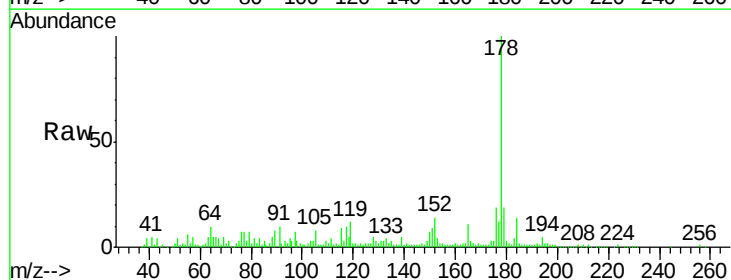
Tgt Ion:178 Resp: 230823

Ion Ratio Lower Upper

178 100

176 19.2 15.7 23.5

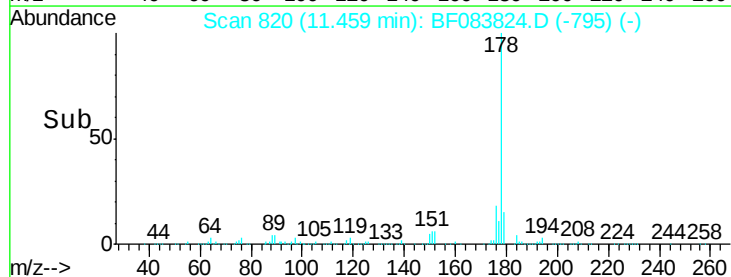
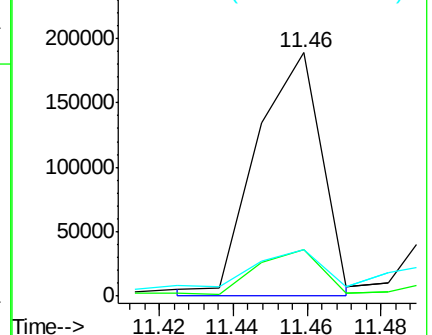
179 19.3 12.2 18.4#

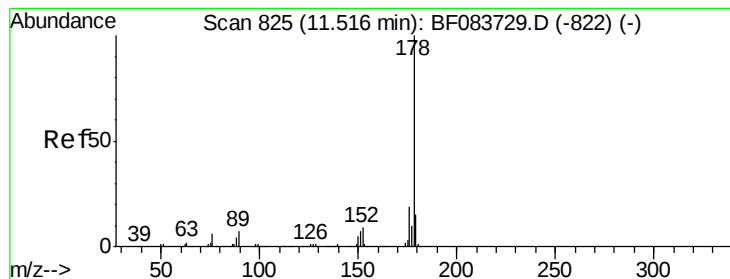


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#71

Anthracene

Concen: 34.02 ng m

RT: 11.50 min Scan# 824

Delta R.T. -0.01 min

Lab File: BF083824.D

Acq: 15 Dec 2015 17:55

Instrument :

BNA_F

ClientSampleId :

K211-13-14

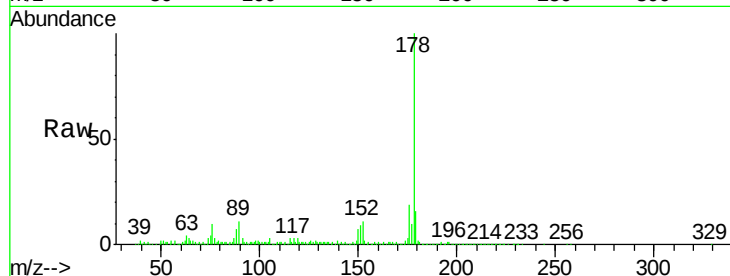
Tot Ion:178 Resp: 514351

Ion Ratio Lower Upper

178 100

176 18.6 15.2 22.8

179 16.1 12.6 18.8



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

600000

400000

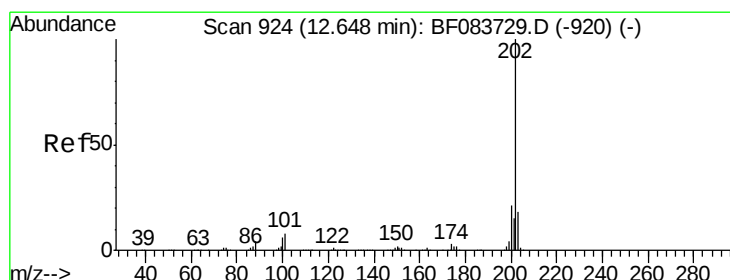
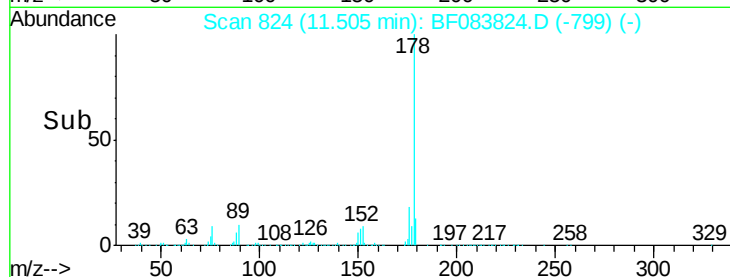
200000

0

11.45

11.50

Time-->



#74

Fluoranthene

Concen: 64.28 ng

RT: 12.66 min Scan# 925

Delta R.T. 0.01 min

Lab File: BF083824.D

Acq: 15 Dec 2015 17:55

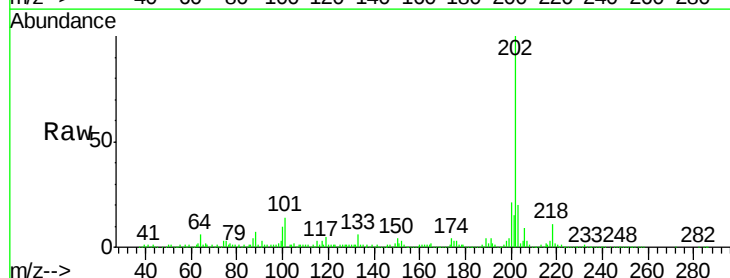
Tgt Ion:202 Resp: 966788

Ion Ratio Lower Upper

202 100

101 13.7 0.0 31.5

203 19.9 0.0 37.6



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

1200000

1000000

800000

600000

400000

200000

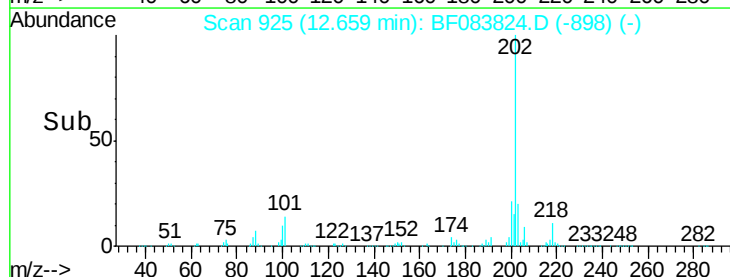
0

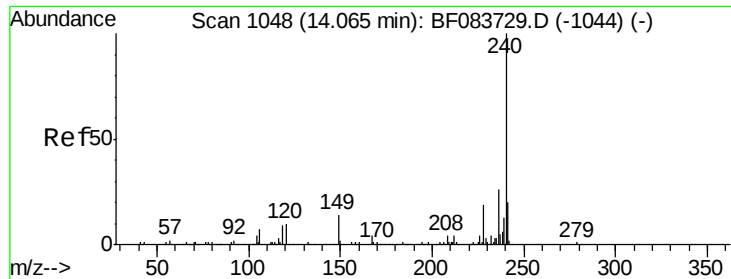
12.60

12.65

12.70

Time-->





#75

Chrysene-d12

Concen: 20.00 ng

RT: 14.08 min Scan# 1049

Delta R.T. -0.00 min

Lab File: BF083824.D

Acq: 15 Dec 2015 17:55

Instrument :

BNA_F

ClientSampleId :

K211-13-14

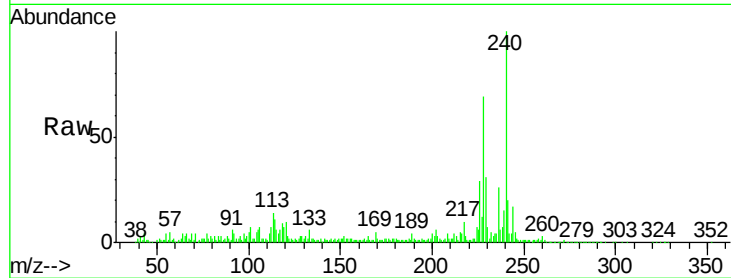
Tot Ion:240 Resp: 204789

Ion Ratio Lower Upper

240 100

120 10.2 8.1 12.1

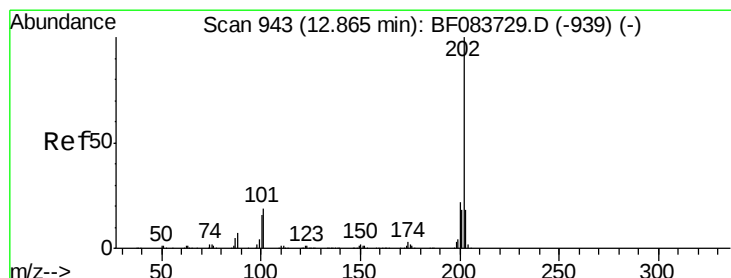
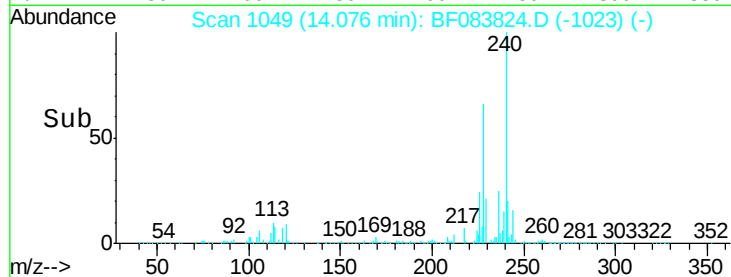
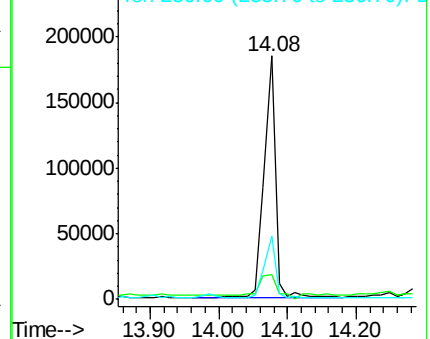
236 25.7 20.8 31.2



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

Pyrene

Concen: 91.52 ng

RT: 12.89 min Scan# 945

Delta R.T. 0.01 min

Lab File: BF083824.D

Acq: 15 Dec 2015 17:55

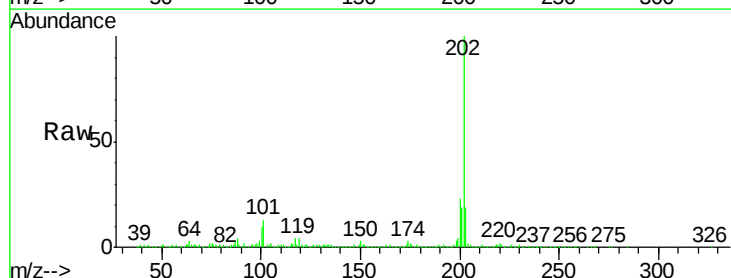
Tgt Ion:202 Resp: 1481393

Ion Ratio Lower Upper

202 100

200 22.5 16.7 25.1

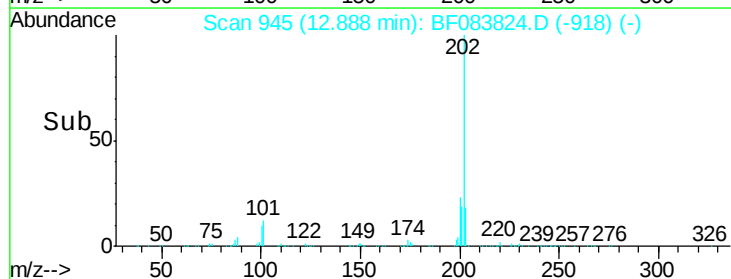
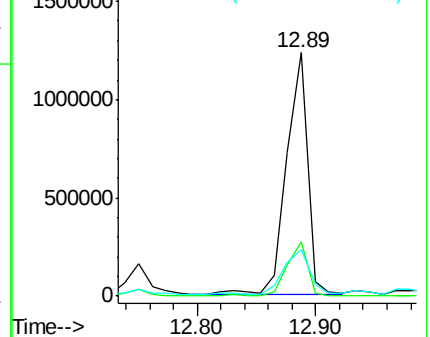
203 19.1 14.3 21.5

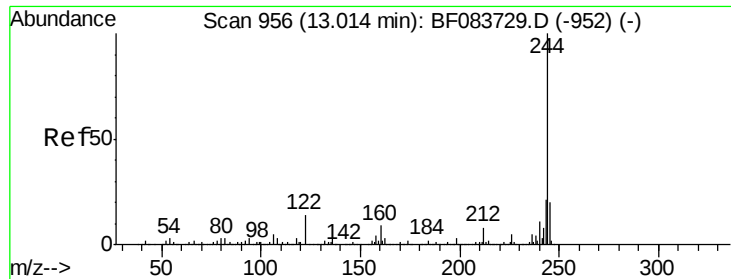


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 68.55 ng

RT: 13.02 min Scan# 957

Delta R.T. -0.00 min

Lab File: BF083824.D

Acq: 15 Dec 2015 17:55

Instrument :

BNA_F

ClientSampleId :

K211-13-14

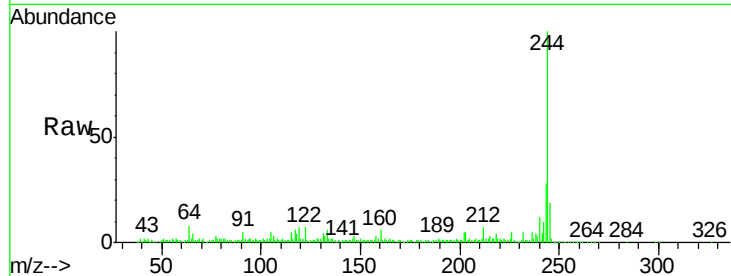
Tot Ion:244 Resp: 652589

Ion Ratio Lower Upper

244 100

212 6.8 6.1 9.1

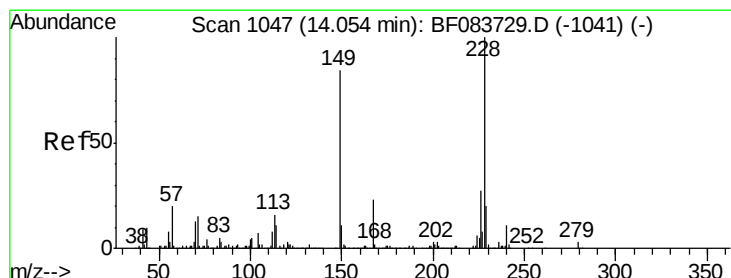
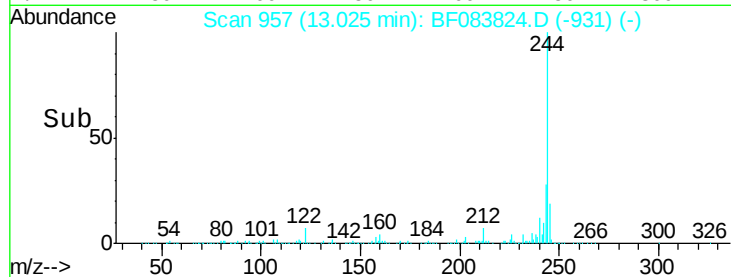
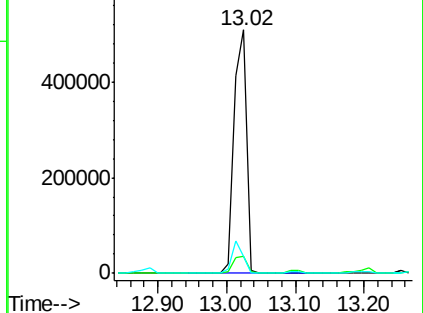
122 7.1 11.0 16.6#



Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E



#80

Benzo(a)anthracene

Concen: 67.37 ng

RT: 14.06 min Scan# 1048

Delta R.T. -0.00 min

Lab File: BF083824.D

Acq: 15 Dec 2015 17:55

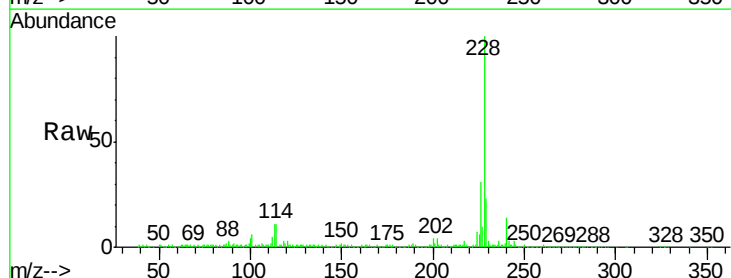
Tgt Ion:228 Resp: 784504

Ion Ratio Lower Upper

228 100

226 31.1 22.3 33.5

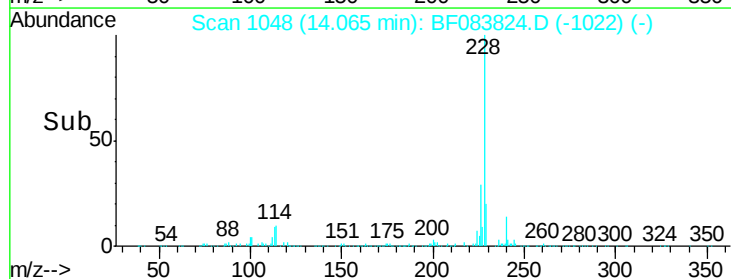
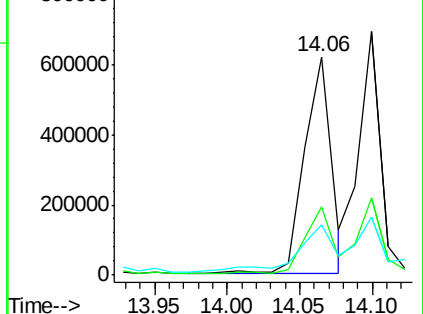
229 23.3 15.7 23.5

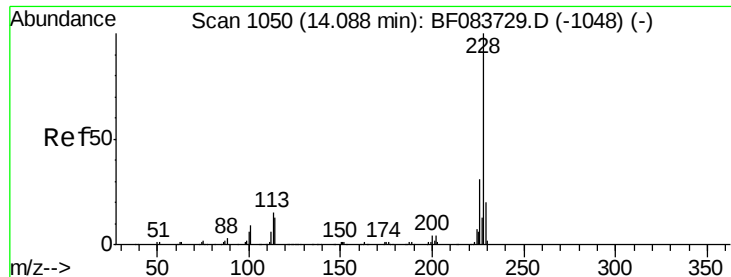


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#82

Chrysene

Concen: 64.02 ng/mL

RT: 14.10 min Scan# 1051

Delta R.T. -0.00 min

Lab File: BF083824.D

Acq: 15 Dec 2015 17:55

Instrument :

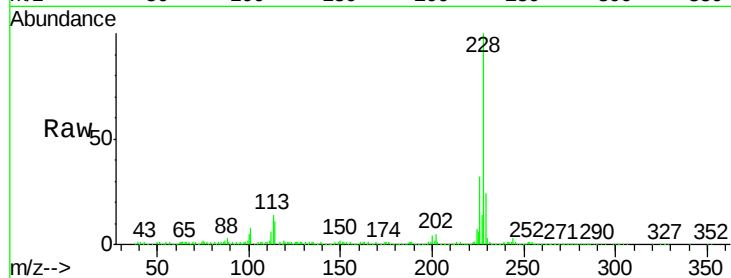
BNA_F

ClientSampleId :

K211-13-14

Tot Ion:228 Resp: 727115

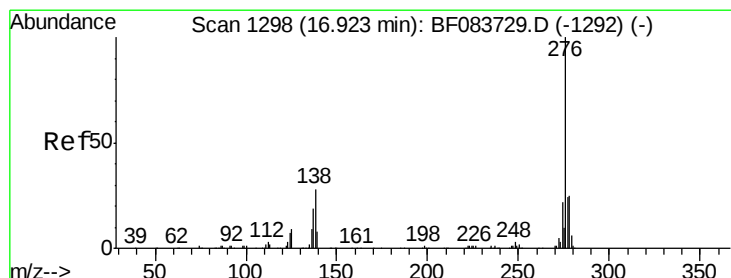
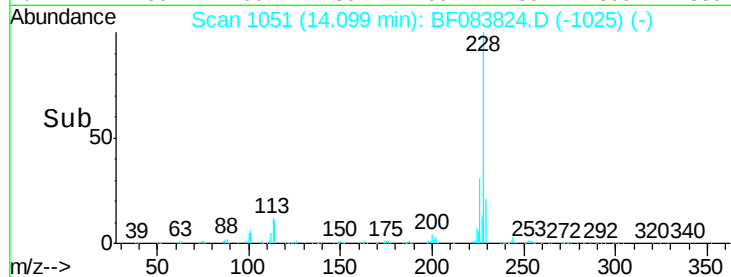
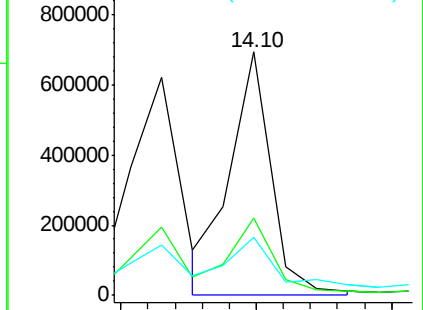
Ion	Ratio	Lower	Upper
228	100		
226	31.8	24.7	37.1
229	23.6	16.3	24.5



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



#85

Indeno(1,2,3-cd)pyrene

Concen: 10.62 ng/mL

RT: 16.95 min Scan# 1300

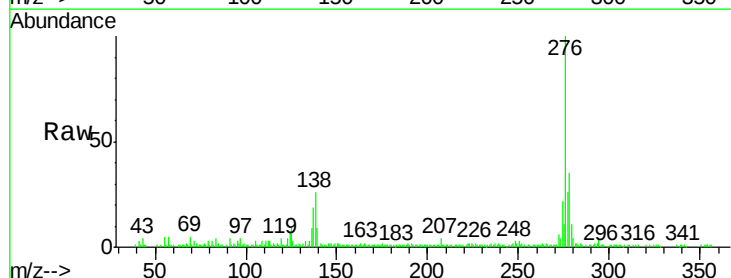
Delta R.T. 0.00 min

Lab File: BF083824.D

Acq: 15 Dec 2015 17:55

Tgt Ion:276 Resp: 118436

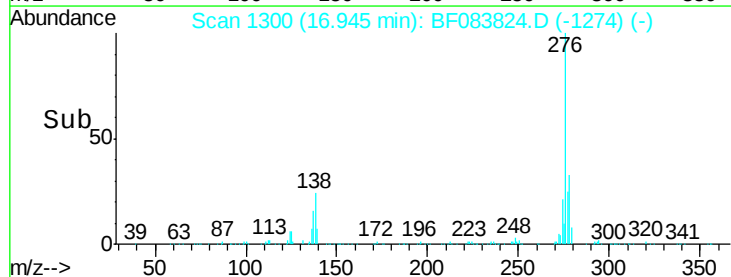
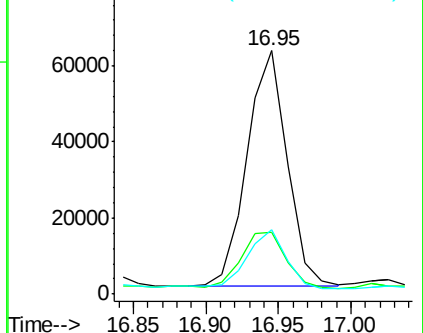
Ion	Ratio	Lower	Upper
276	100		
138	27.8	0.0	0.0#
277	24.7	0.0	0.0#

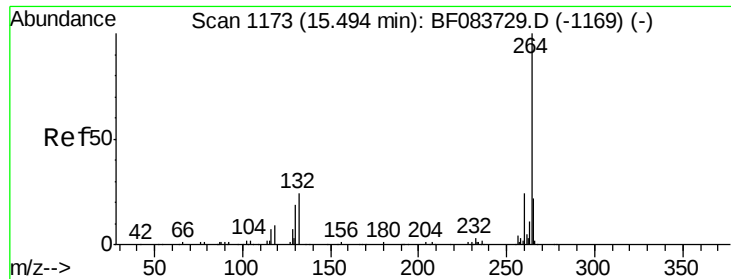


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E





#86

Pervlene-d12

Concen: 20.00 ng

RT: 15.52 min Scan# 1175

Delta R.T. 0.01 min

Lab File: BF083824.D

Acq: 15 Dec 2015 17:55

Instrument :

BNA_F

ClientSampleId :

K211-13-14

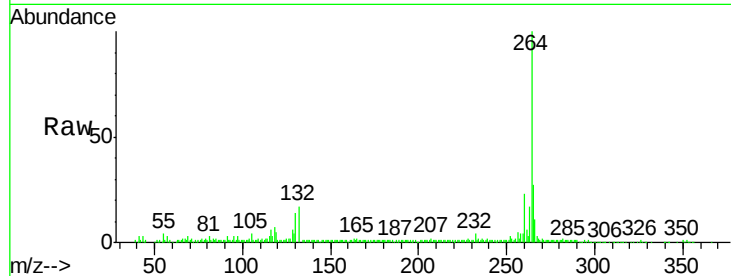
Tot Ion:264 Resp: 177341

Ion Ratio Lower Upper

264 100

260 23.5 19.4 29.0

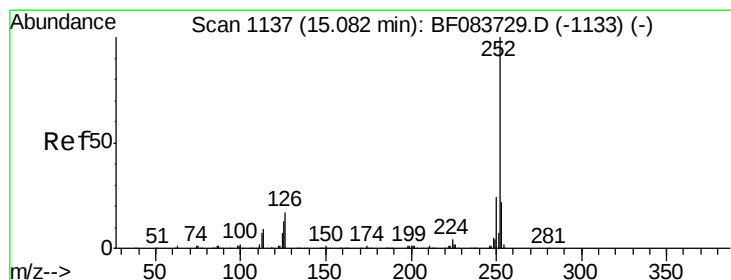
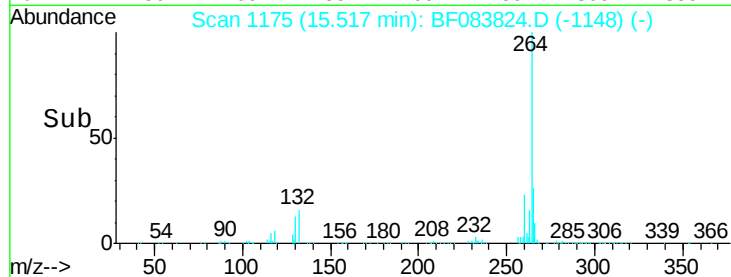
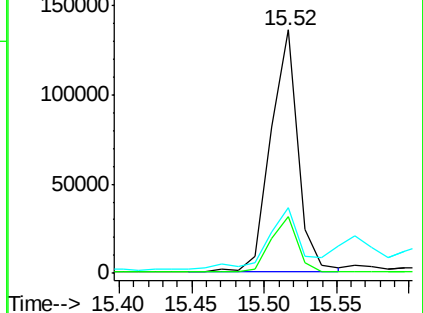
265 26.9 17.8 26.6#



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: 38.29 ng m

RT: 15.11 min Scan# 1139

Delta R.T. 0.01 min

Lab File: BF083824.D

Acq: 15 Dec 2015 17:55

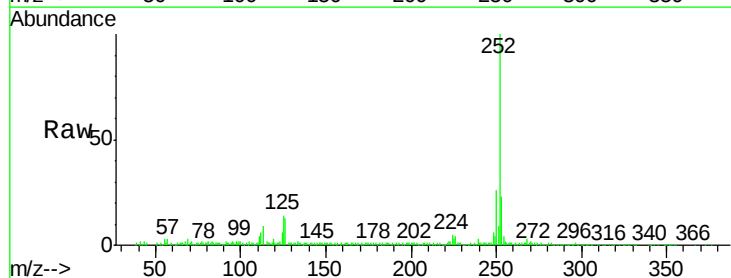
Tgt Ion:252 Resp: 433225

Ion Ratio Lower Upper

252 100

253 22.8 18.2 27.4

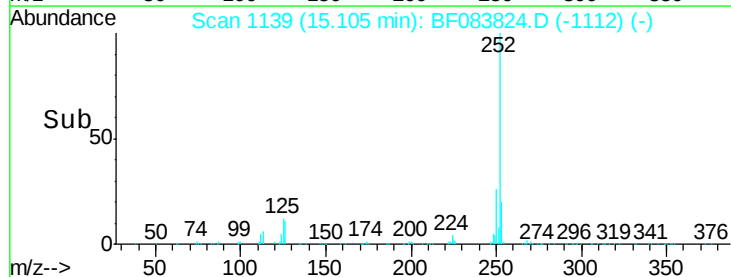
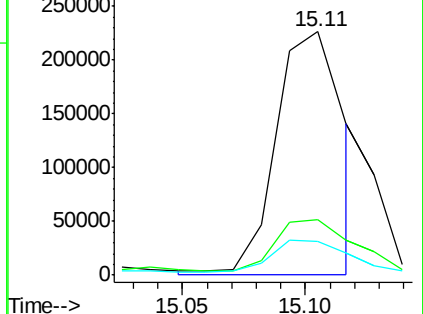
125 14.1 8.2 12.4#

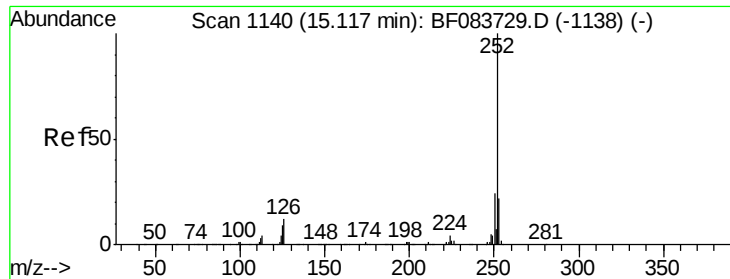


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#88

Benzo(k)fluoranthene

Concen: 7.75 ng/mL

RT: 15.12 min Scan# 1140

Delta R.T. -0.01 min

Lab File: BF083824.D

Acq: 15 Dec 2015 17:55

Instrument :

BNA_F

ClientSampleId :

K211-13-14

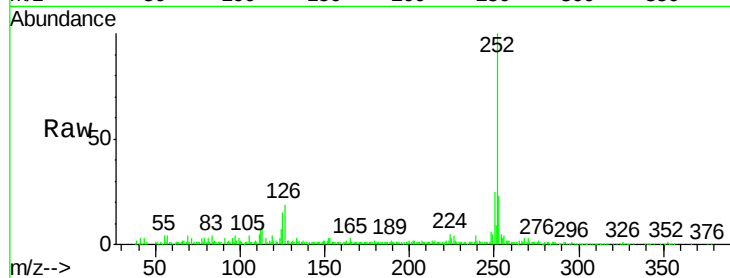
Tot Ion:252 Resp: 79459

Ion Ratio Lower Upper

252 100

253 23.0 18.6 27.8

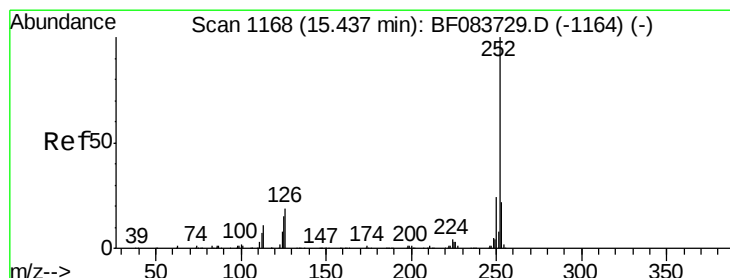
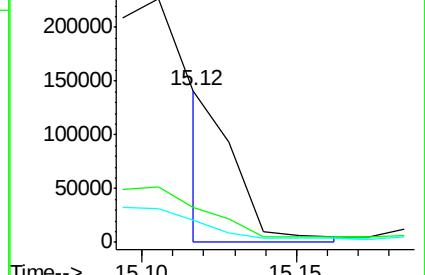
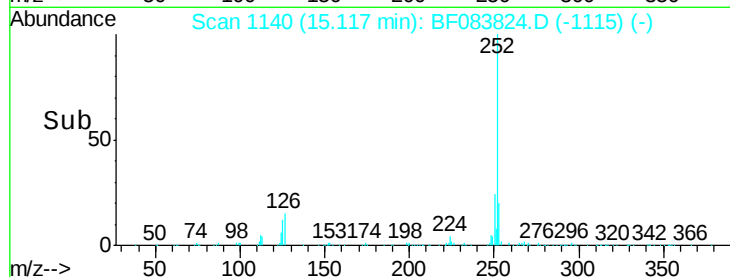
125 14.5 11.5 17.3



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#89

Benzo(a)pyrene

Concen: 36.67 ng/mL

RT: 15.46 min Scan# 1170

Delta R.T. 0.01 min

Lab File: BF083824.D

Acq: 15 Dec 2015 17:55

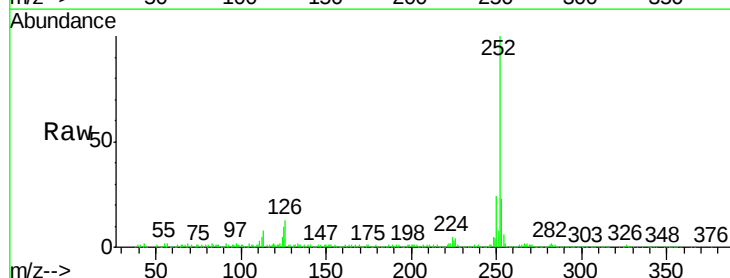
Tgt Ion:252 Resp: 370217

Ion Ratio Lower Upper

252 100

253 22.8 17.5 26.3

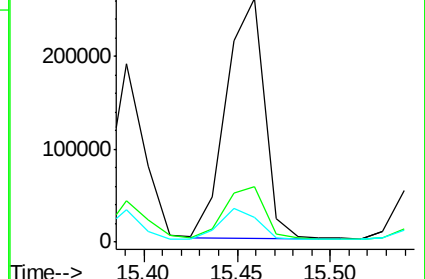
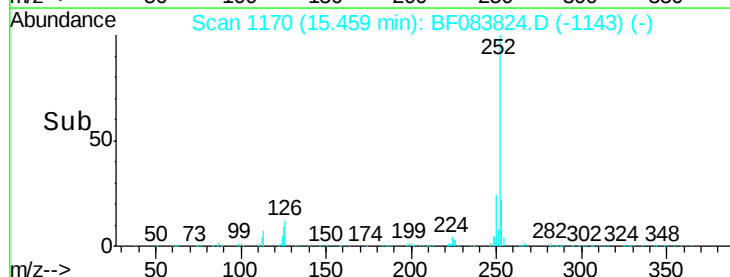
125 10.1 11.0 16.6#

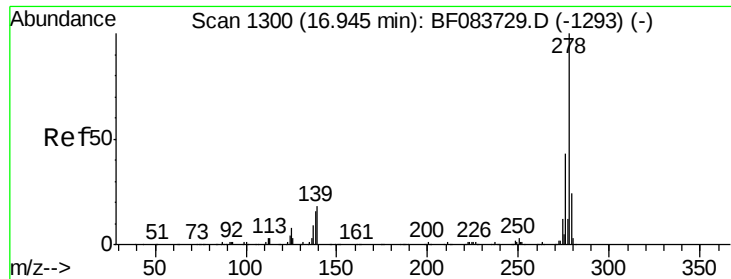


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

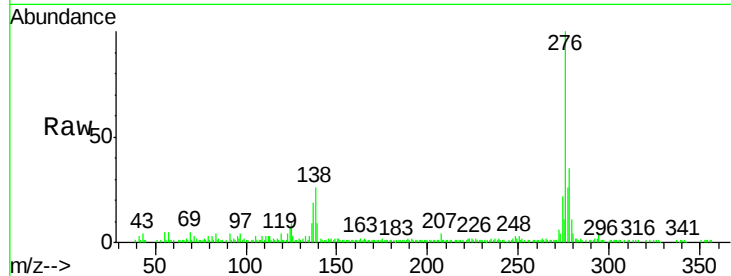




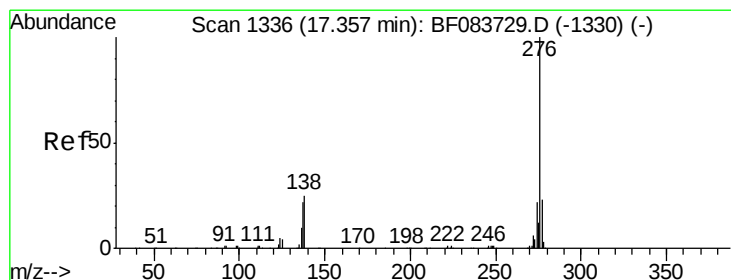
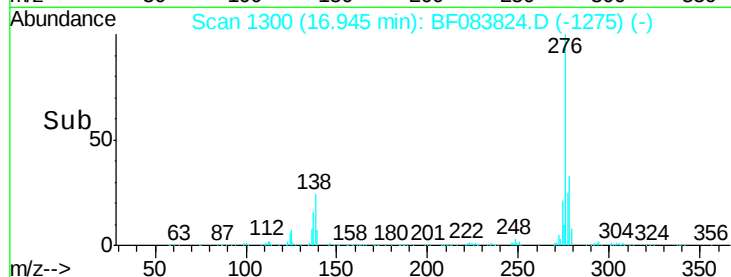
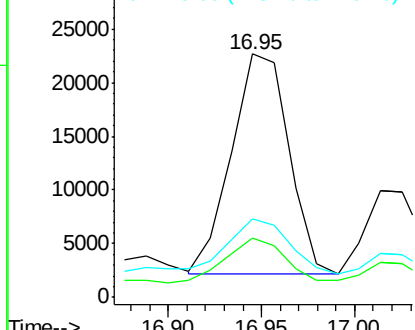
#90
Dibenzo(a,h)anthracene
Concen: 4.34 ng
RT: 16.95 min Scan# 1300
Delta R.T. -0.01 min
Lab File: BF083824.D
Acq: 15 Dec 2015 17:55

Instrument :
BNA_F
ClientSampleId :
K211-13-14

Tot Ion:278 Resp: 43596
Ion Ratio Lower Upper
278 100
139 24.3 12.8 19.2#
279 32.2 18.6 28.0#

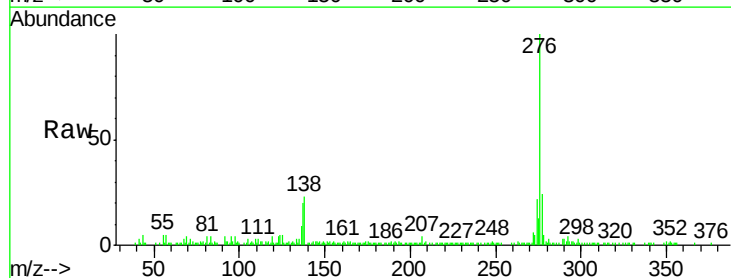


Abundance Ion 278.00 (277.70 to 278.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 279.00 (278.70 to 279.70): E



#91
Benzo(g,h,i)perylene
Concen: 11.34 ng
RT: 17.38 min Scan# 1338
Delta R.T. -0.00 min
Lab File: BF083824.D
Acq: 15 Dec 2015 17:55

Tgt Ion:276 Resp: 117071
Ion Ratio Lower Upper
276 100
277 24.2 19.2 28.8
138 23.3 19.5 29.3



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

