

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF121515\
 Data File : BF083814.D
 Acq On : 15 Dec 2015 12:53
 Operator : UM/IZ
 Sample : G4634-01RE
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 K203-0-2

Quant Time: Dec 16 00:45:08 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	129857	20.00	ng	-0.02
21) Naphthalene-d8	8.18	136	528310	20.00	ng	-0.03
38) Acenaphthene-d10	9.94	164	259502	20.00	ng	-0.02
63) Phenanthrene-d10	11.43	188	423836	20.00	ng	-0.02
75) Chrysene-d12	14.05	240	321664	20.00	ng	-0.02
86) Perylene-d12	15.49	264	294353	20.00	ng	-0.01

System Monitoring Compounds						
5) 2-Fluorophenol	5.52	112	874331	108.62	ng	-0.01
7) Phenol-d6	6.53	99	950643	93.26	ng	-0.01
23) Nitrobenzene-d5	7.46	82	601277	63.67	ng	-0.02
41) 2,4,6-Tribromophenol	10.73	330	255753	96.72	ng	-0.02
44) 2-Fluorobiphenyl	9.26	172	1069088	54.50	ng	-0.02
78) Terphenyl-d14	13.00	244	631853	42.25	ng	-0.02

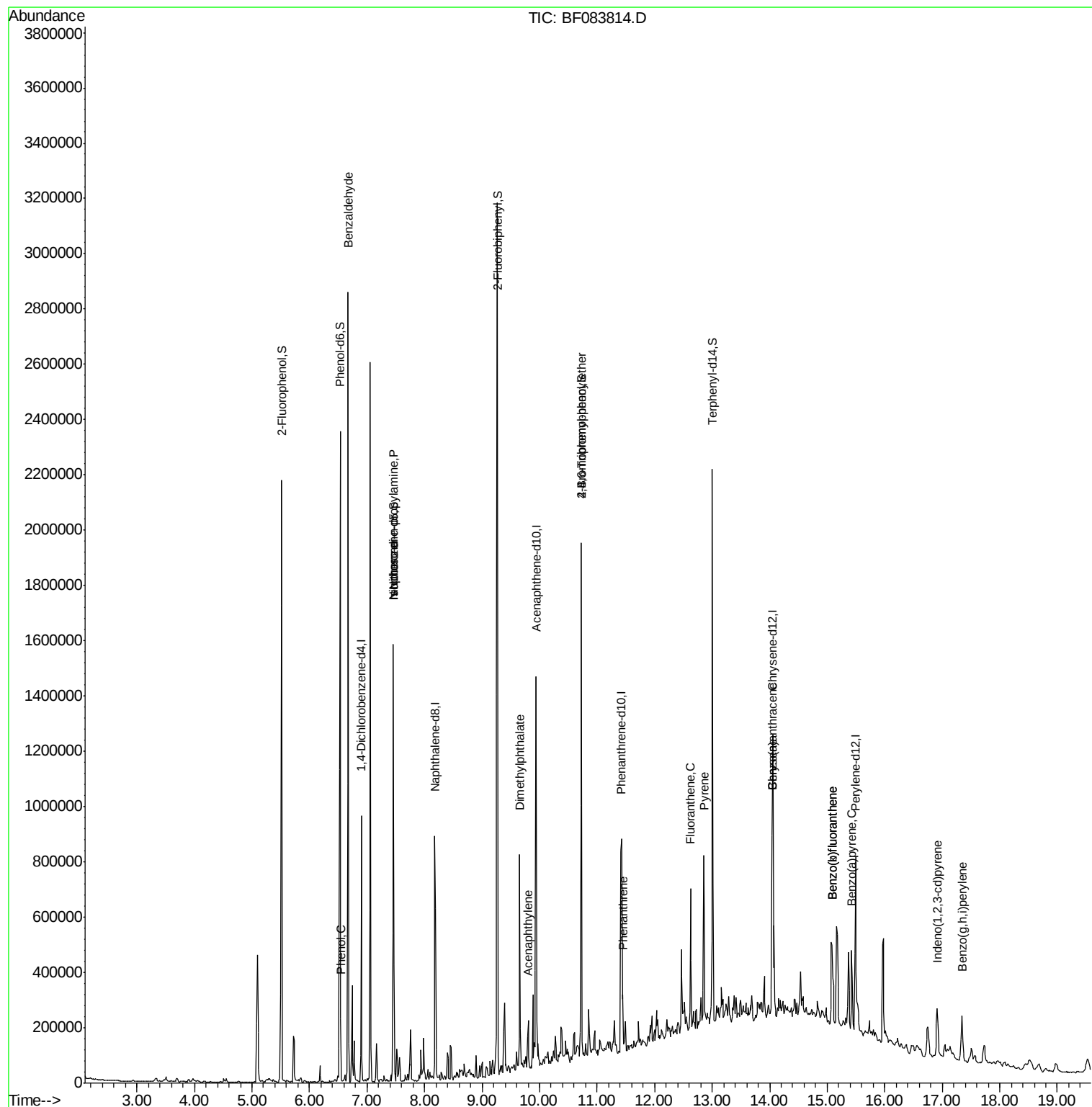
Target Compounds						Qvalue
9) Benzaldehyde	6.67	77	20118	3.67	ng	94
10) Phenol	6.54	94	31081	2.65	ng	# 72
19) n-Nitroso-di-n-propylamine	7.46	70	81254	13.02	ng	# 72
25) Isophorone	7.46	82	597286	32.24	ng	# 69
48) Acenaphthylene	9.80	152	90405	3.17	ng	98
49) Dimethylphthalate	9.65	163	278165	13.75	ng	99
66) 4-Bromophenyl-phenylether	10.73	248	18034	3.81	ng	# 1
70) Phenanthrene	11.45	178	115341	5.12	ng	98
74) Fluoranthene	12.63	202	228213	9.81	ng	95
77) Pyrene	12.85	202	253987	9.99	ng	99
80) Benzo(a)anthracene	14.04	228	122704	6.71	ng	# 86
82) Chrysene	14.04	228	122704	6.88	ng	# 90
85) Indeno(1,2,3-cd)pyrene	16.91	276	114319	6.52	ng	# 100
87) Benzo(b)fluoranthene	15.08	252	253551	13.50	ng	# 97
88) Benzo(k)fluoranthene	15.08	252	253551	14.90	ng	99
89) Benzo(a)pyrene	15.43	252	136080	8.12	ng	# 93
91) Benzo(g,h,i)perylene	17.35	276	130032	7.59	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: 6.90 min Scan# 421

Delta R.T. -0.02 min

Lab File: BF083814.D

Acq: 15 Dec 2015 12:53

Instrument :

BNA_F

ClientSampleId :

K203-0-2

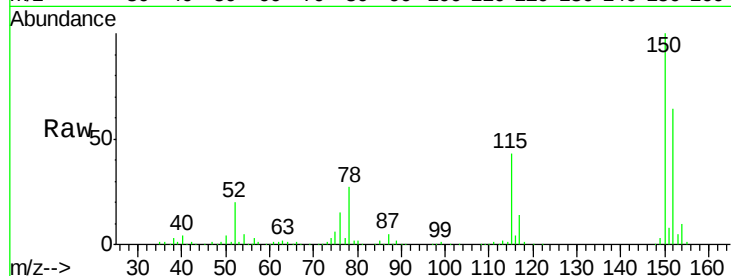
Tgt Ion:152 Resp: 129857

Ion Ratio Lower Upper

152 100

150 156.6 126.5 189.7

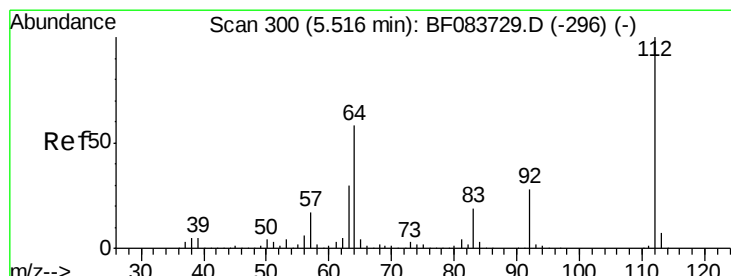
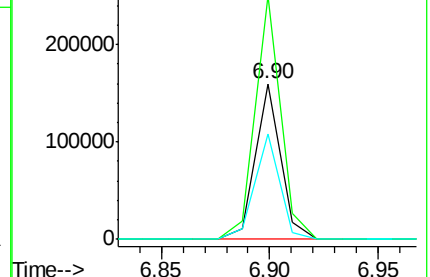
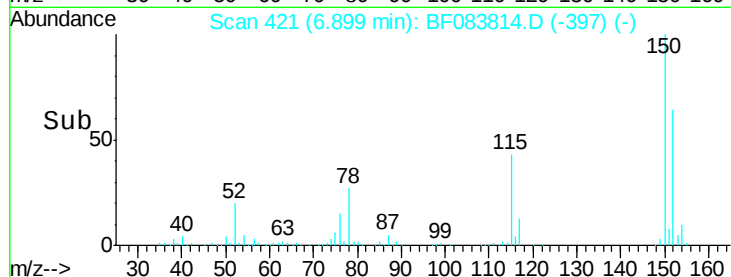
115 67.7 52.3 78.5



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: 108.62 ng

RT: 5.52 min Scan# 300

Delta R.T. -0.01 min

Lab File: BF083814.D

Acq: 15 Dec 2015 12:53

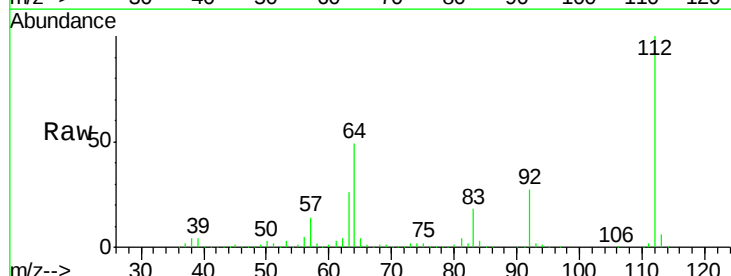
Tgt Ion:112 Resp: 874331

Ion Ratio Lower Upper

112 100

64 49.3 50.5 75.7#

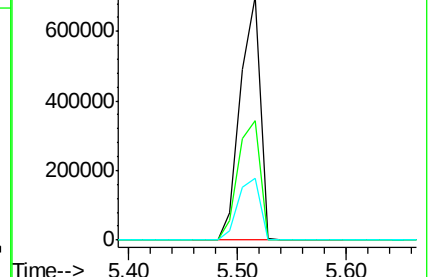
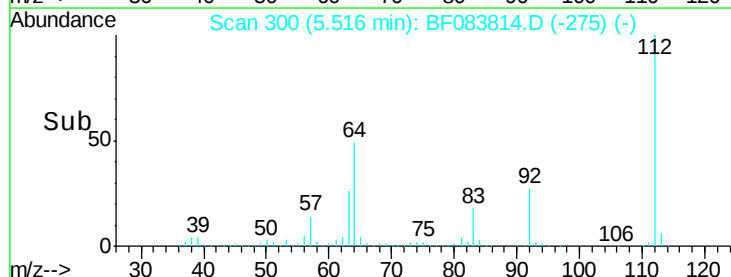
63 25.6 25.8 38.6#

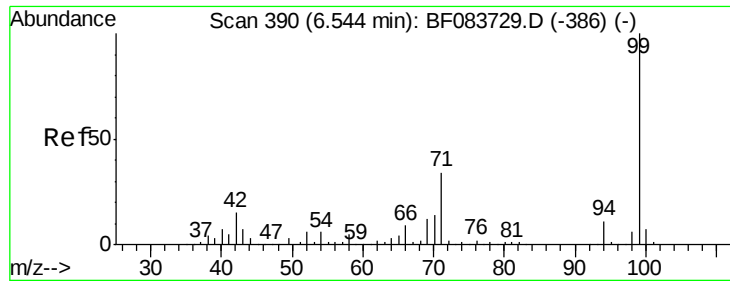


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 93.26 ng

RT: 6.53 min Scan# 389

Delta R.T. -0.01 min

Lab File: BF083814.D

Acq: 15 Dec 2015 12:53

Instrument :

BNA_F

ClientSampleId :

K203-0-2

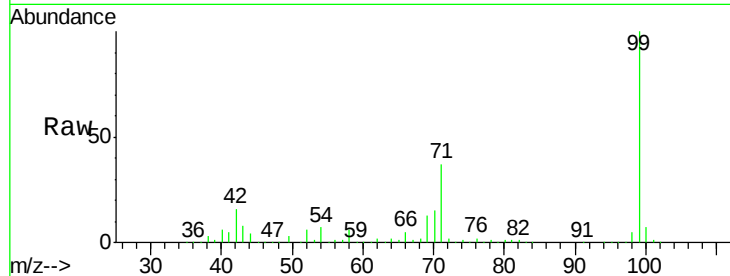
Tgt Ion: 99 Resp: 950643

Ion Ratio Lower Upper

99 100

42 16.5 17.3 25.9#

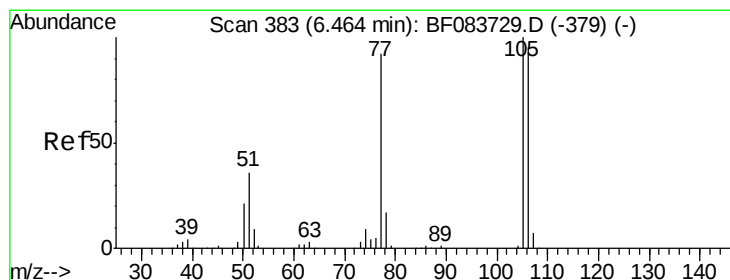
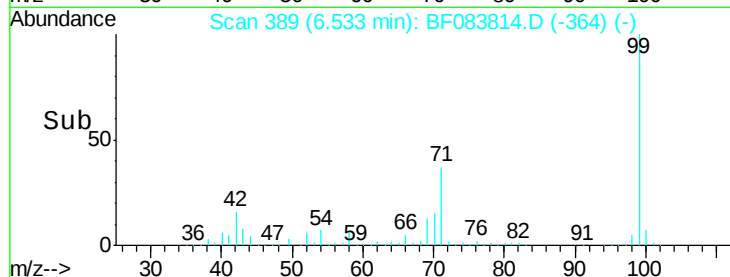
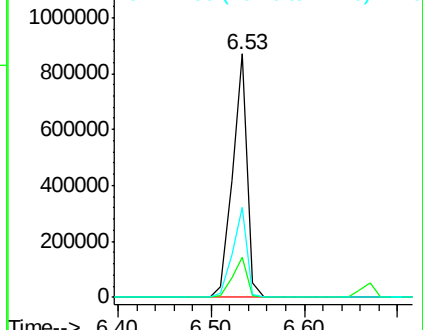
71 36.9 26.6 40.0



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



#9

Benzaldehyde

Concen: 3.67 ng

RT: 6.67 min Scan# 401

Delta R.T. 0.21 min

Lab File: BF083814.D

Acq: 15 Dec 2015 12:53

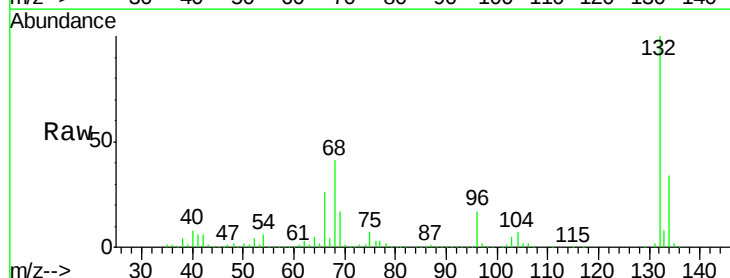
Tgt Ion: 77 Resp: 20118

Ion Ratio Lower Upper

77 100

105 83.8 71.8 111.8

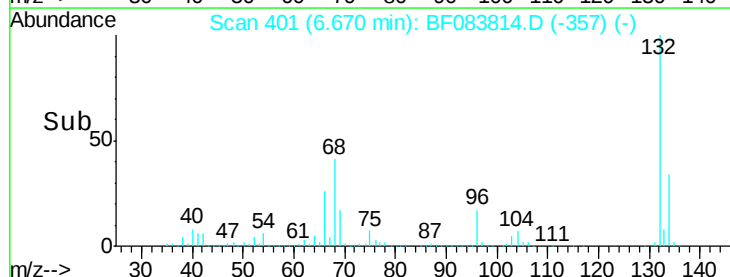
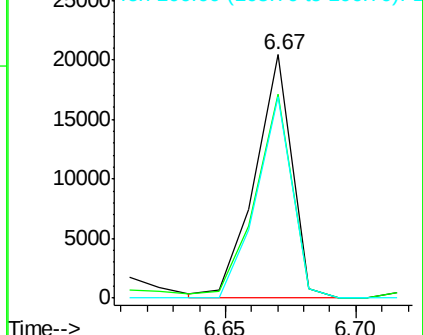
106 82.9 66.8 106.8

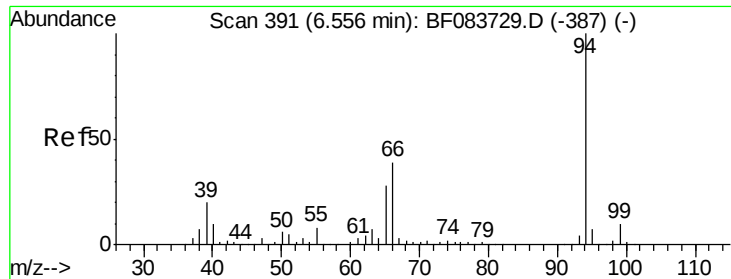


Abundance Ion 77.00 (76.70 to 77.70): BF0

Ion 105.00 (104.70 to 105.70): B

Ion 106.00 (105.70 to 106.70): B





#10

Phenol

Concen: 2.65 ng

RT: 6.54 min Scan# 390

Delta R.T. -0.01 min

Lab File: BF083814.D

Acq: 15 Dec 2015 12:53

Instrument :

BNA_F

ClientSampled :

K203-0-2

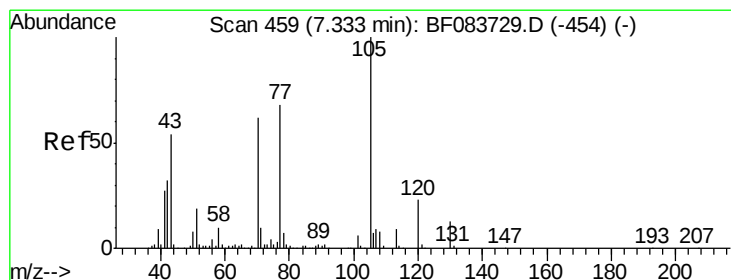
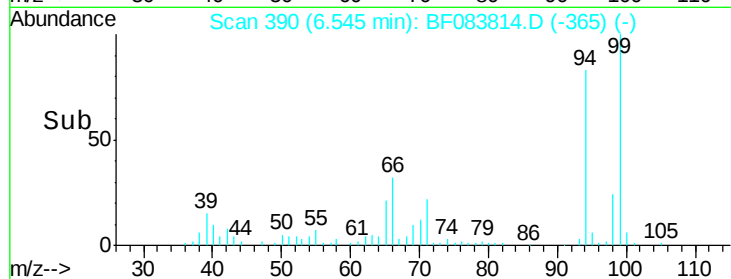
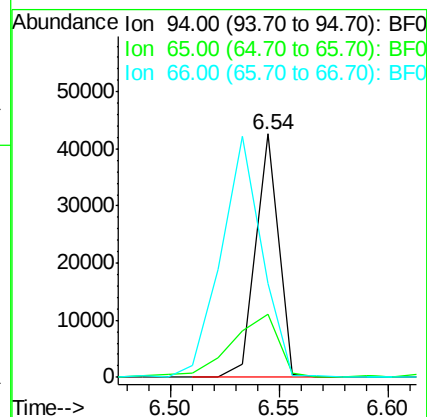
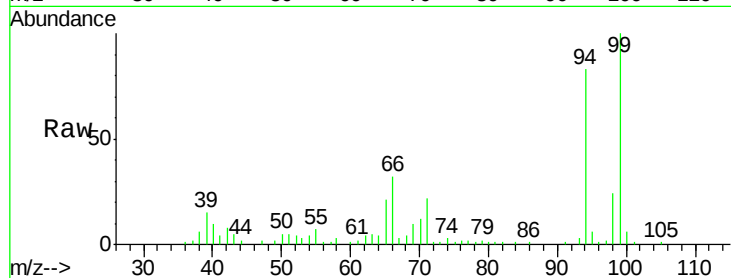
Tgt Ion: 94 Resp: 31081

Ion Ratio Lower Upper

94 100

65 25.9 20.9 60.9

66 38.4 41.6 81.6#



#19

n-Nitroso-di-n-propylamine

Concen: 13.02 ng

RT: 7.46 min Scan# 470

Delta R.T. 0.11 min

Lab File: BF083814.D

Acq: 15 Dec 2015 12:53

Tgt Ion: 70 Resp: 81254

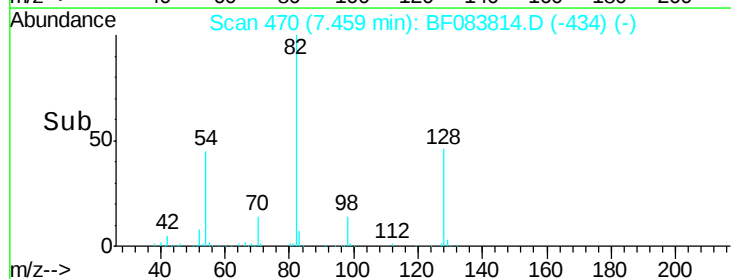
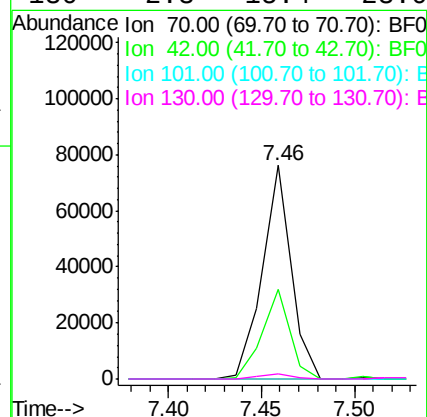
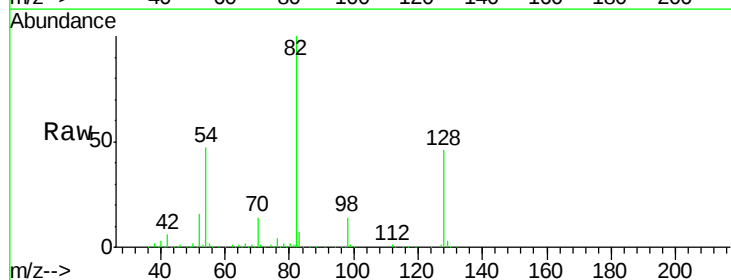
Ion Ratio Lower Upper

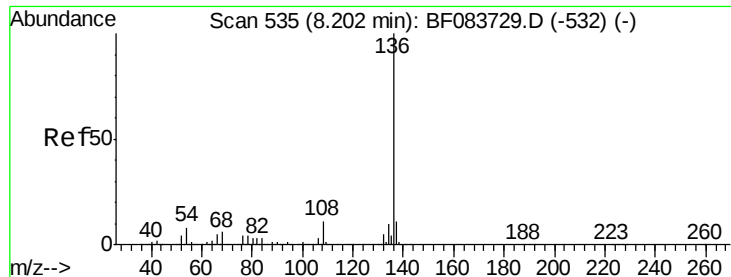
70 100

42 41.7 49.2 73.8#

101 0.0 7.1 10.7#

130 2.3 15.4 23.0#

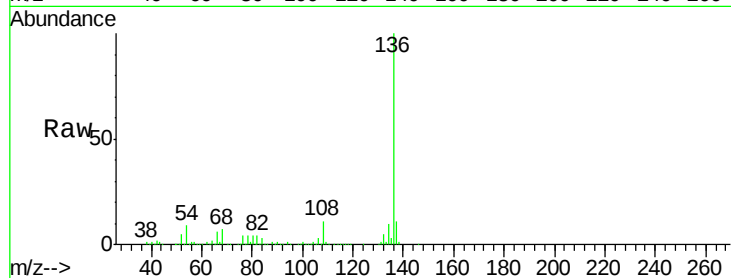




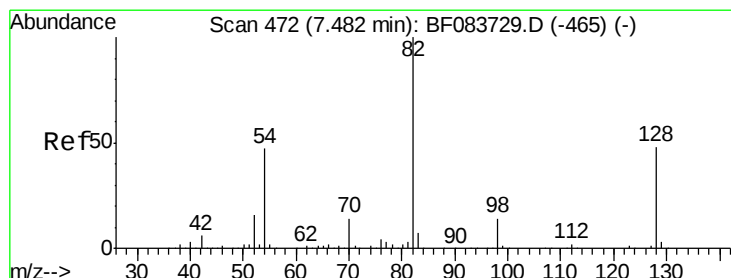
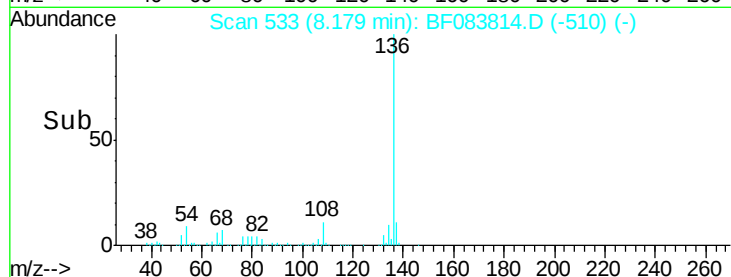
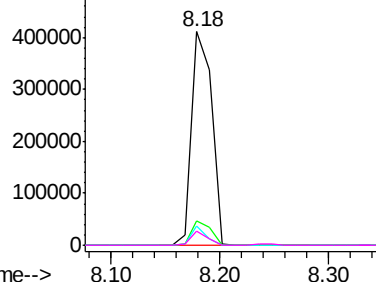
#21
Naphthalene-d8
Concen: 20.00 ng
RT: 8.18 min Scan# 533
Delta R.T. -0.03 min
Lab File: BF083814.D
Acq: 15 Dec 2015 12:53

Instrument :
BNA_F
ClientSampleId :
K203-0-2

Tgt Ion:	136	Resp:	528310
Ion	Ratio	Lower	Upper
136	100		
137	11.4	8.7	13.1
54	8.8	7.8	11.6
68	6.7	5.7	8.5

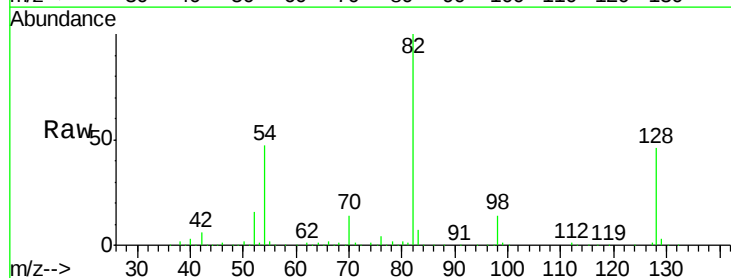


Abundance Ion 136.00 (135.70 to 136.70): E
Ion 137.00 (136.70 to 137.70): E
Ion 54.00 (53.70 to 54.70): BF0
Ion 68.00 (67.70 to 68.70): BF0

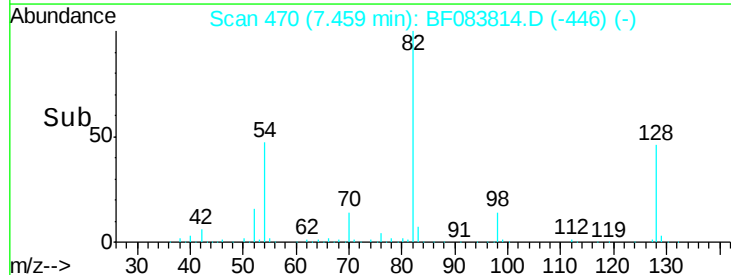
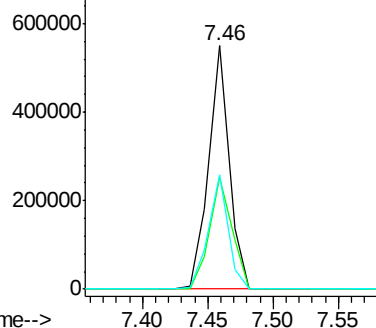


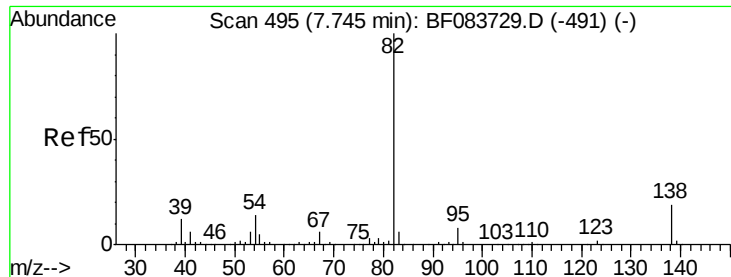
#23
Nitrobenzene-d5
Concen: 63.67 ng
RT: 7.46 min Scan# 470
Delta R.T. -0.02 min
Lab File: BF083814.D
Acq: 15 Dec 2015 12:53

Tgt Ion:	82	Resp:	601277
Ion	Ratio	Lower	Upper
82	100		
128	46.1	30.7	46.1
54	46.9	42.5	63.7



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





#25

Isophorone

Concen: 32.24 ng

RT: 7.46 min Scan# 470

Delta R.T. -0.29 min

Lab File: BF083814.D

Acq: 15 Dec 2015 12:53

Instrument :

BNA_F

ClientSampleId :

K203-0-2

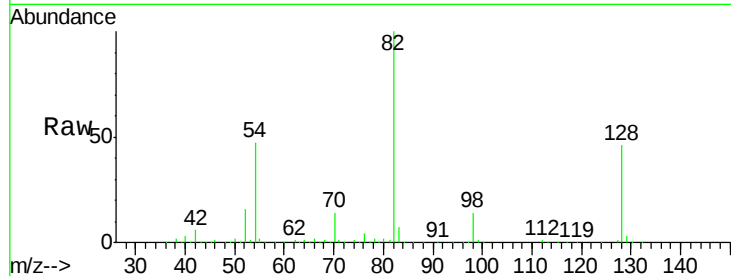
Tgt Ion: 82 Resp: 597286

Ion Ratio Lower Upper

82 100

95 0.0 5.0 7.4#

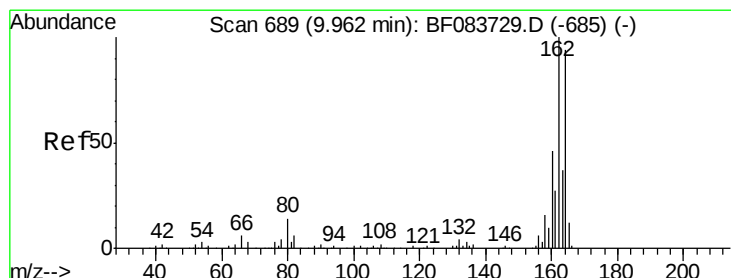
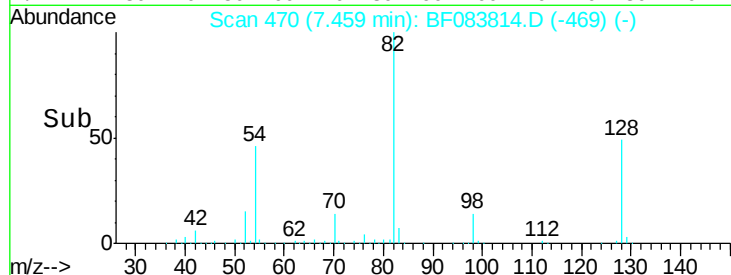
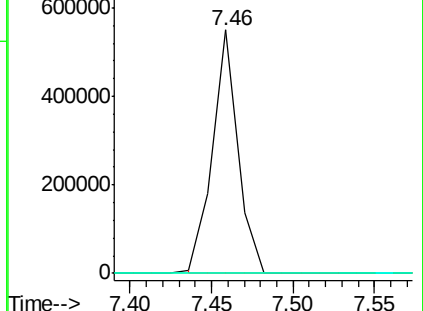
138 0.0 12.1 18.1#



Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 95.00 (94.70 to 95.70): BF0

Ion 138.00 (137.70 to 138.70): BF0



#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.94 min Scan# 687

Delta R.T. -0.02 min

Lab File: BF083814.D

Acq: 15 Dec 2015 12:53

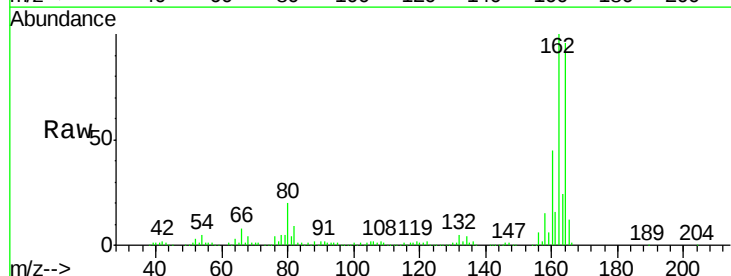
Tgt Ion: 164 Resp: 259502

Ion Ratio Lower Upper

164 100

162 104.4 78.8 118.2

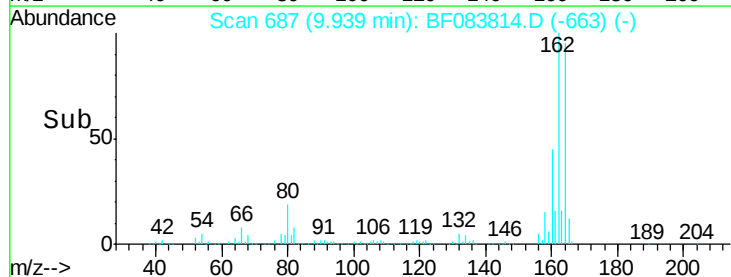
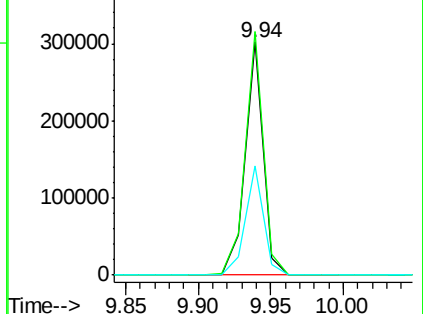
160 46.6 33.4 50.2

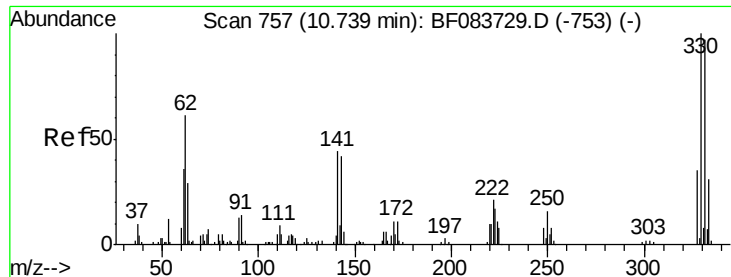


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

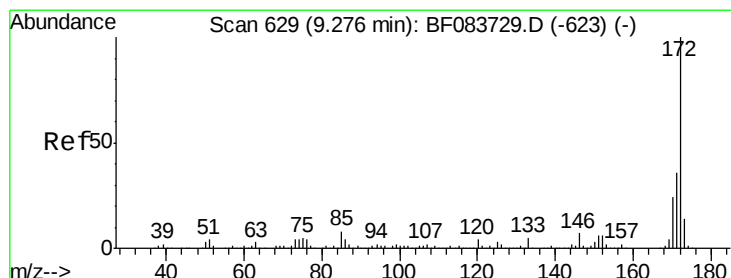
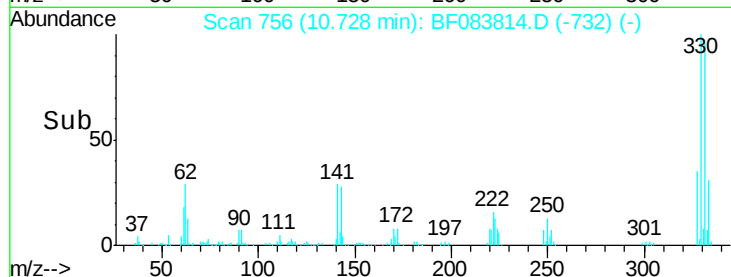
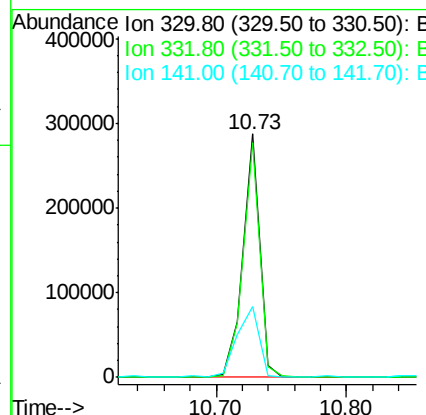
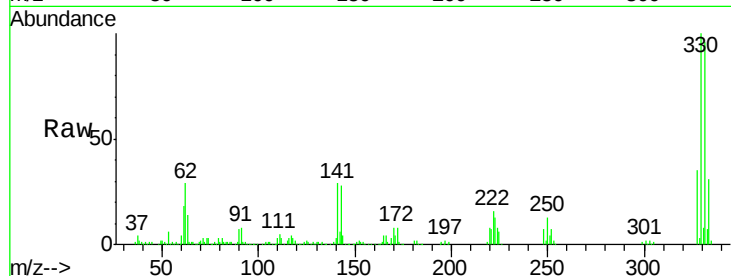




#41
 2,4,6-Tribromophenol
 Concen: 96.72 ng
 RT: 10.73 min Scan# 756
 Delta R.T. -0.02 min
 Lab File: BF083814.D
 Acq: 15 Dec 2015 12:53

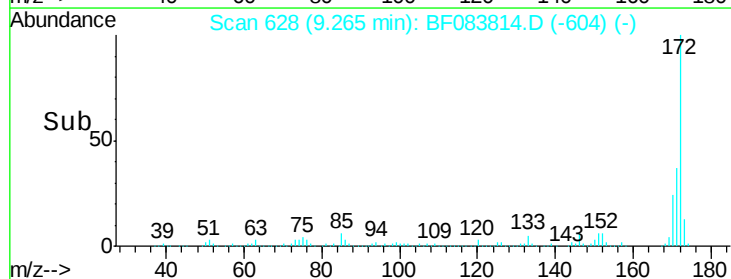
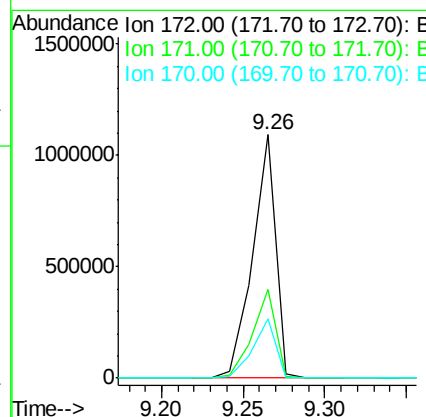
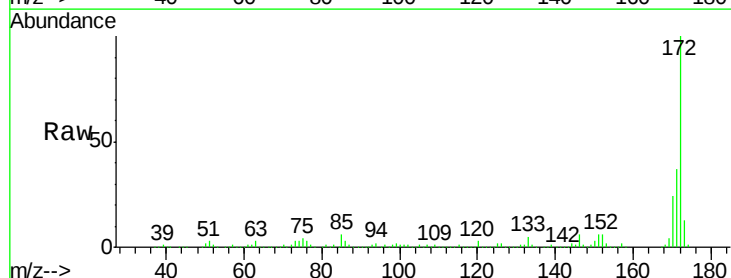
Instrument :
 BNA_F
 ClientSampleId :
 K203-0-2

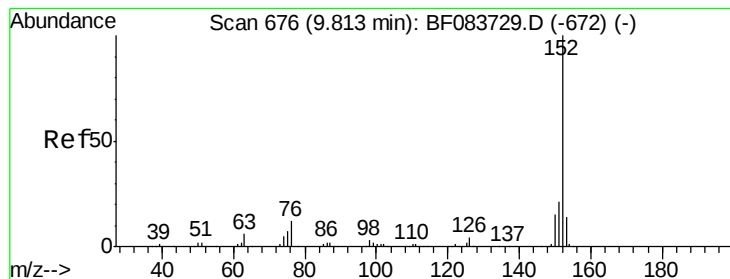
Tgt Ion	Ratio	Lower	Upper
330	100		
332	96.6	0.0	0.0#
141	37.7	0.0	0.0#



#44
 2-Fluorobiphenyl
 Concen: 54.50 ng
 RT: 9.26 min Scan# 628
 Delta R.T. -0.02 min
 Lab File: BF083814.D
 Acq: 15 Dec 2015 12:53

Tgt Ion	Ratio	Lower	Upper
172	100		
171	36.5	28.6	42.8
170	24.5	19.4	29.0





#48

Acenaphthylene

Concen: 3.17 ng

RT: 9.80 min Scan# 675

Delta R.T. -0.02 min

Lab File: BF083814.D

Acq: 15 Dec 2015 12:53

Instrument :

BNA_F

ClientSampleId :

K203-0-2

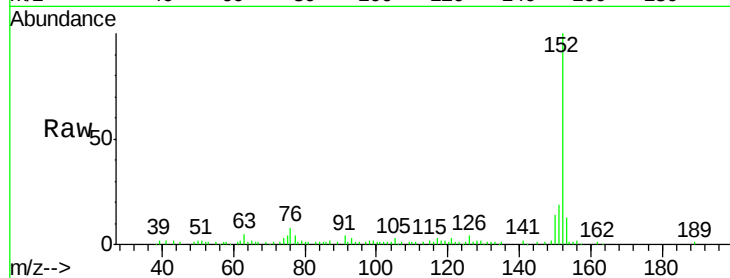
Tgt Ion:152 Resp: 90405

Ion Ratio Lower Upper

152 100

151 19.0 16.3 24.5

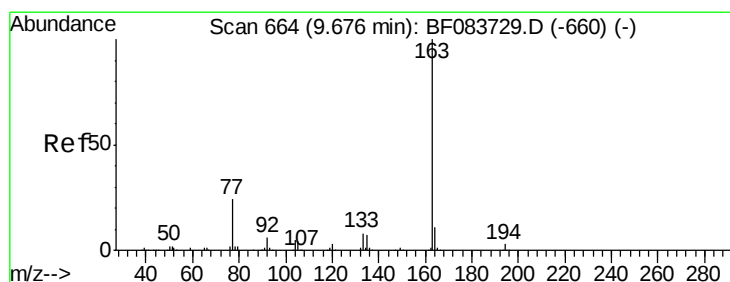
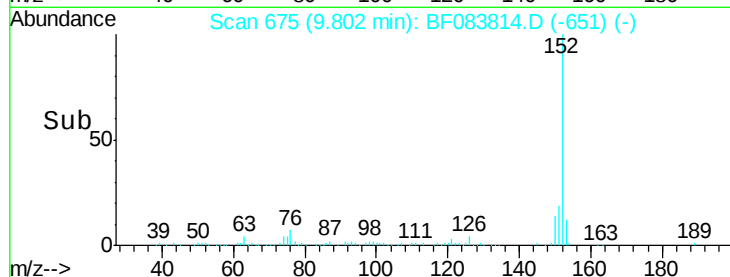
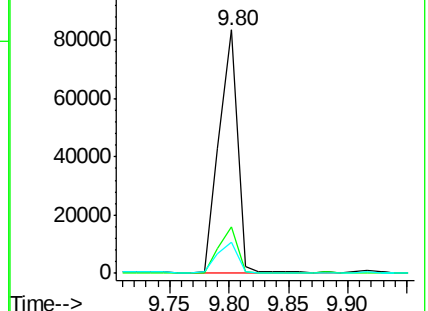
153 13.0 10.8 16.2



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



#49

Dimethylphthalate

Concen: 13.75 ng

RT: 9.65 min Scan# 662

Delta R.T. -0.03 min

Lab File: BF083814.D

Acq: 15 Dec 2015 12:53

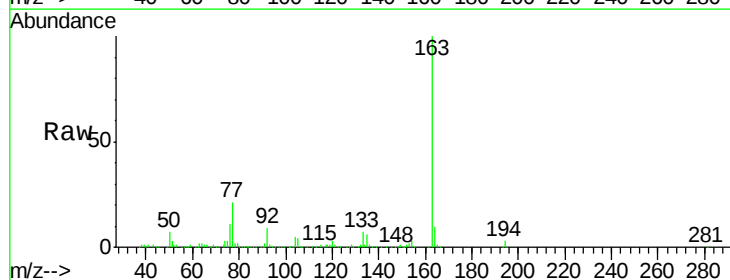
Tgt Ion:163 Resp: 278165

Ion Ratio Lower Upper

163 100

194 3.2 2.8 4.2

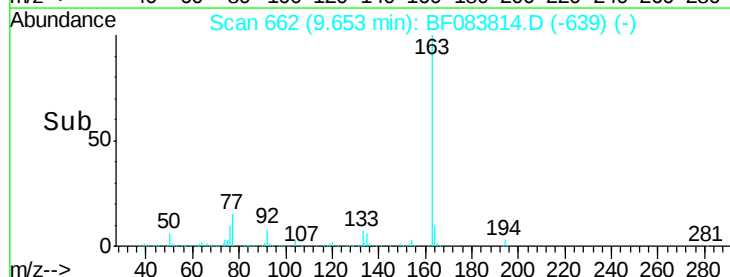
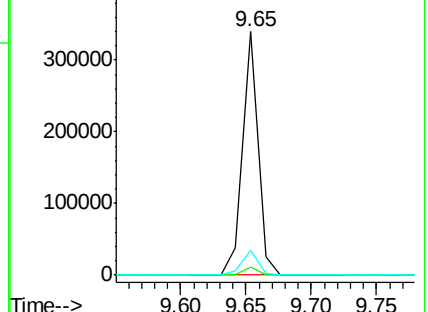
164 10.2 8.6 13.0

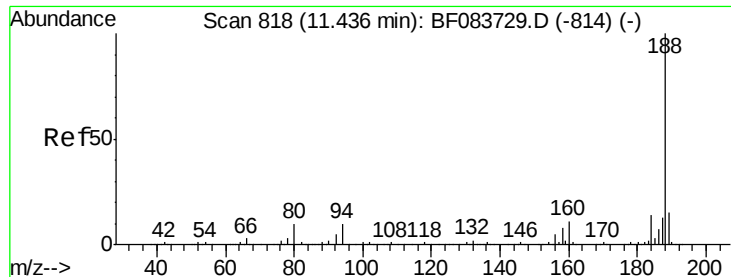


Abundance Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E

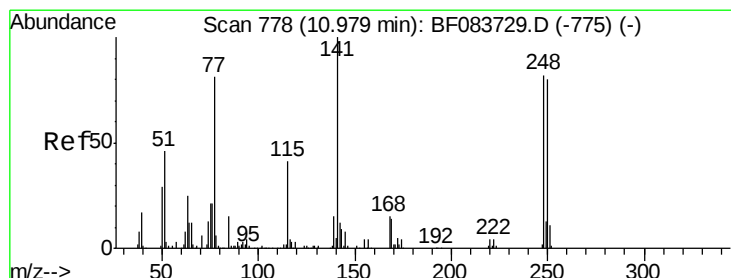
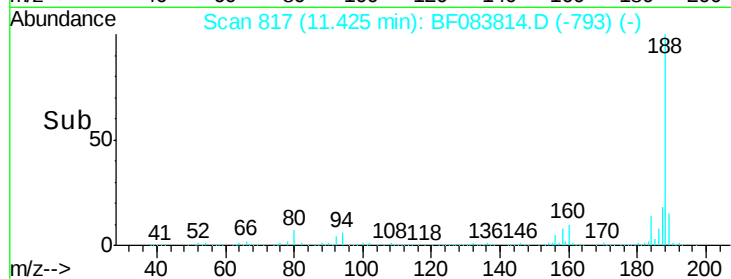
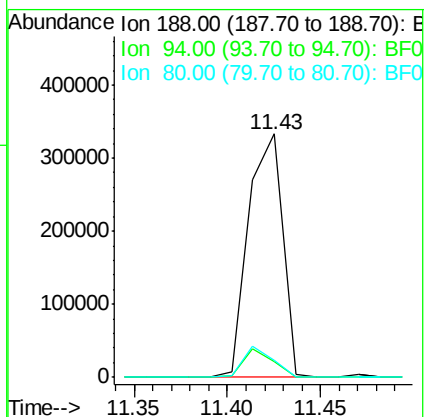
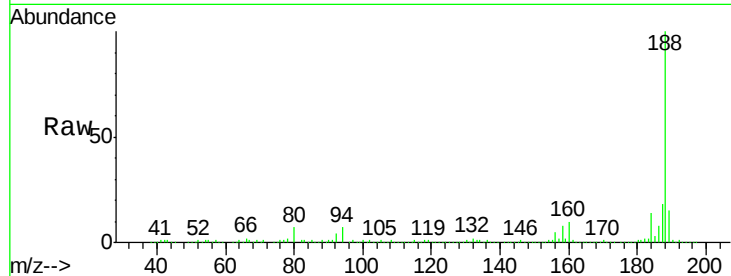




#63
 Phenanthrene-d10
 Concen: 20.00 ng
 RT: 11.43 min Scan# 817
 Delta R.T. -0.02 min
 Lab File: BF083814.D
 Acq: 15 Dec 2015 12:53

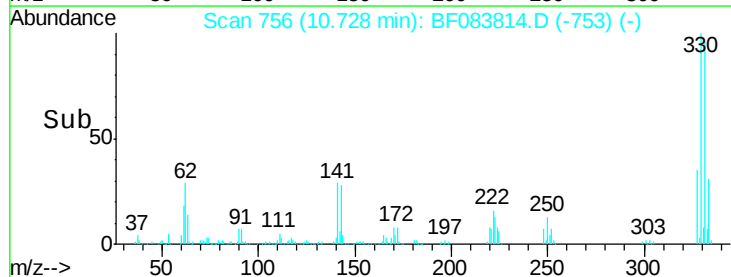
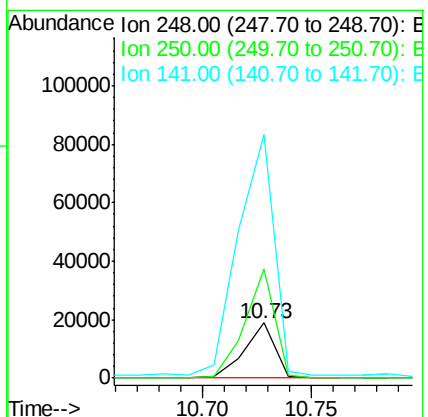
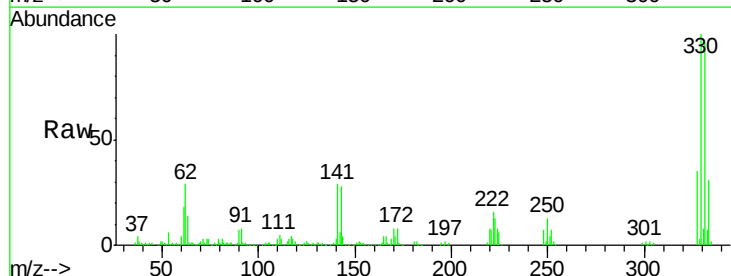
Instrument :
 BNA_F
 ClientSampleId :
 K203-0-2

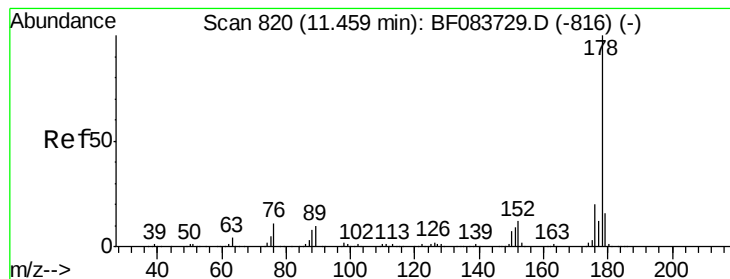
Tgt Ion:188 Resp: 423836
 Ion Ratio Lower Upper
 188 100
 94 6.6 9.4 14.2#
 80 6.8 10.6 16.0#



#66
 4-Bromophenyl-phenylether
 Concen: 3.81 ng
 RT: 10.73 min Scan# 756
 Delta R.T. -0.26 min
 Lab File: BF083814.D
 Acq: 15 Dec 2015 12:53

Tgt Ion:248 Resp: 18034
 Ion Ratio Lower Upper
 248 100
 250 197.0 79.2 118.8#
 141 440.6 58.2 87.4#





#70

Phenanthrene

Concen: 5.12 ng

RT: 11.45 min Scan# 819

Delta R.T. -0.02 min

Lab File: BF083814.D

Acq: 15 Dec 2015 12:53

Instrument :

BNA_F

ClientSampleId :

K203-0-2

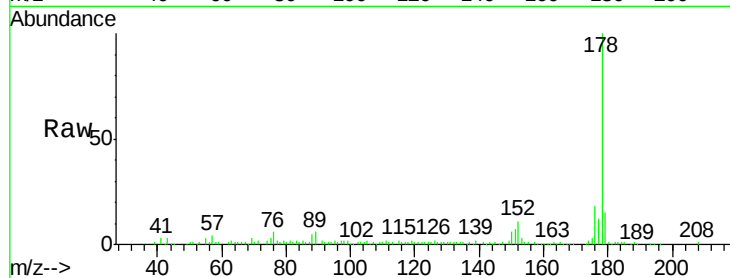
Tgt Ion:178 Resp: 115341

Ion Ratio Lower Upper

178 100

176 18.5 15.7 23.5

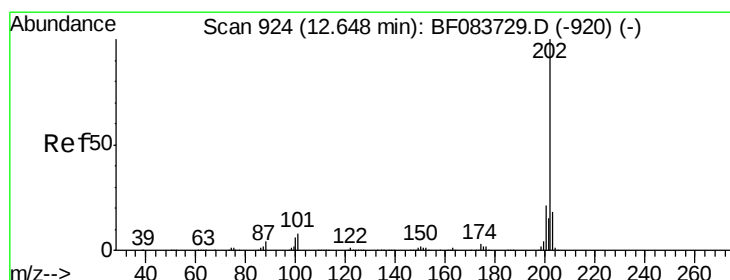
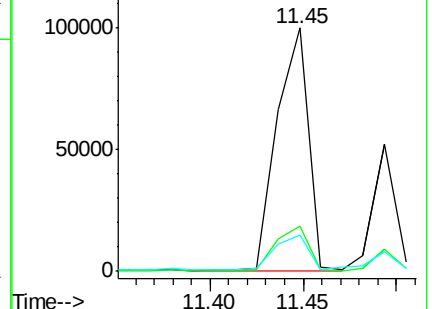
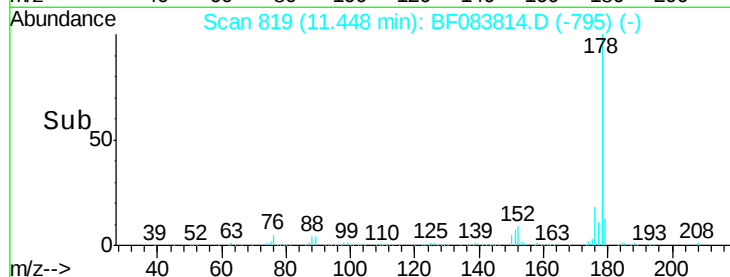
179 14.9 12.2 18.4



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



#74

Fluoranthene

Concen: 9.81 ng

RT: 12.63 min Scan# 922

Delta R.T. -0.02 min

Lab File: BF083814.D

Acq: 15 Dec 2015 12:53

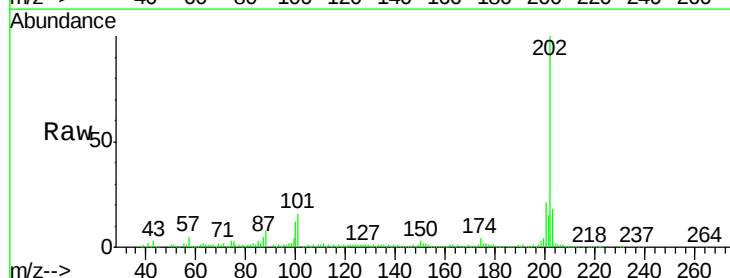
Tgt Ion:202 Resp: 228213

Ion Ratio Lower Upper

202 100

101 16.1 0.0 31.5

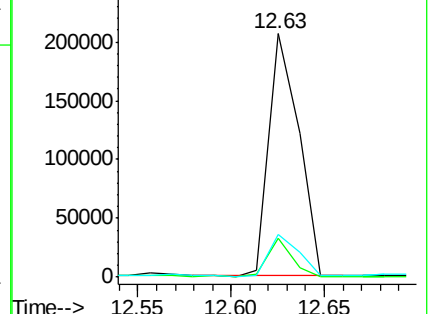
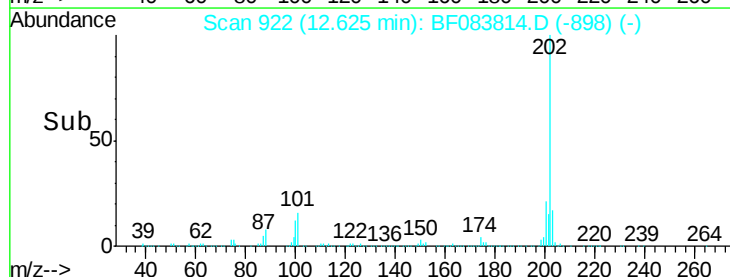
203 17.6 0.0 37.6

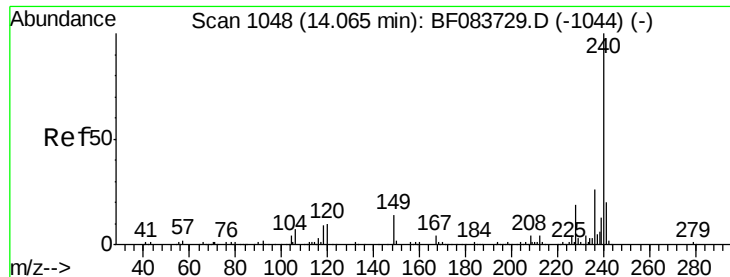


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E





#75

Chrysene-d12

Concen: 20.00 ng

RT: 14.05 min Scan# 1047

Delta R.T. -0.02 min

Lab File: BF083814.D

Acq: 15 Dec 2015 12:53

Instrument :

BNA_F

ClientSampleId :

K203-0-2

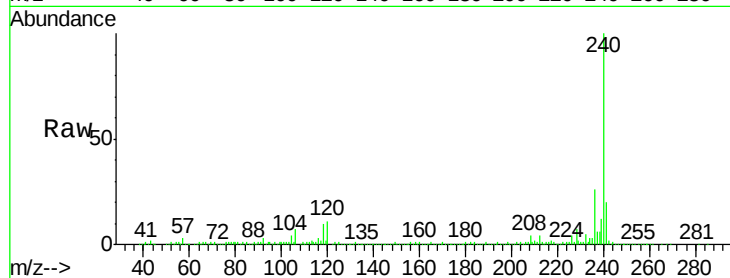
Tgt Ion:240 Resp: 321664

Ion Ratio Lower Upper

240 100

120 10.7 8.1 12.1

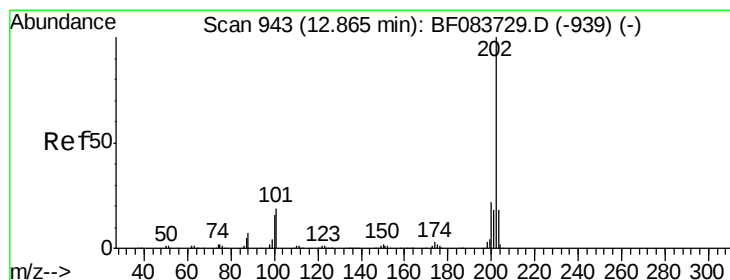
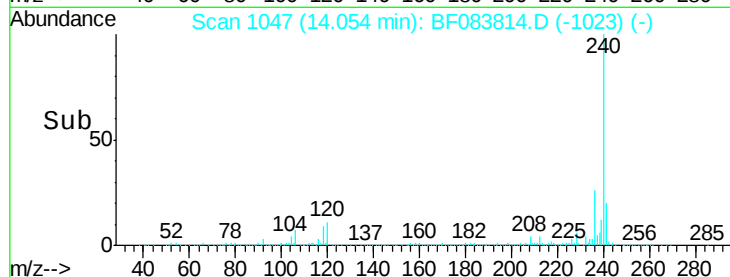
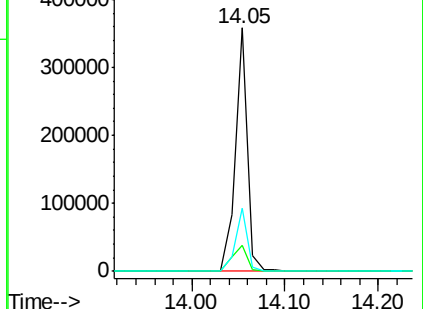
236 25.7 20.8 31.2



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: 9.99 ng

RT: 12.85 min Scan# 942

Delta R.T. -0.02 min

Lab File: BF083814.D

Acq: 15 Dec 2015 12:53

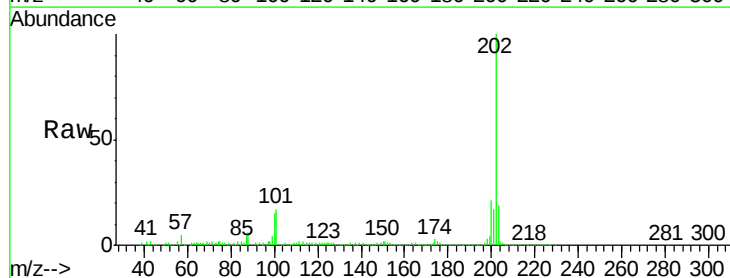
Tgt Ion:202 Resp: 253987

Ion Ratio Lower Upper

202 100

200 21.3 16.7 25.1

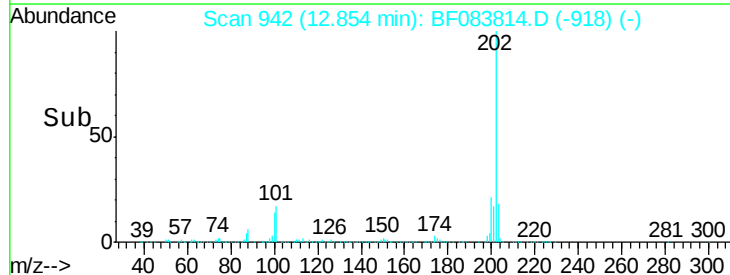
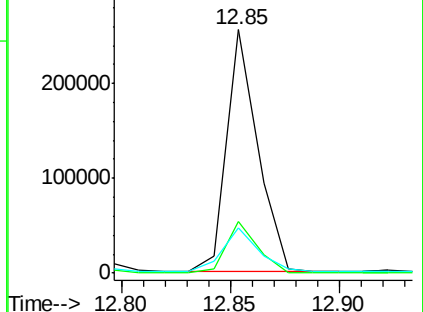
203 18.6 14.3 21.5

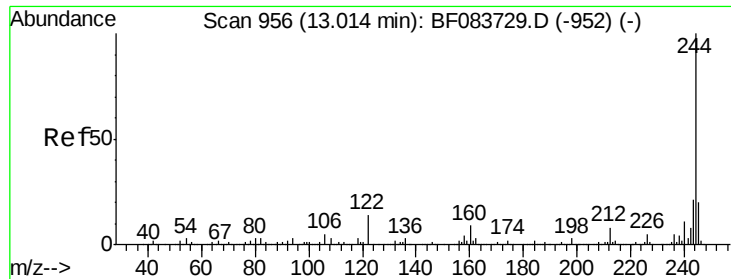


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E

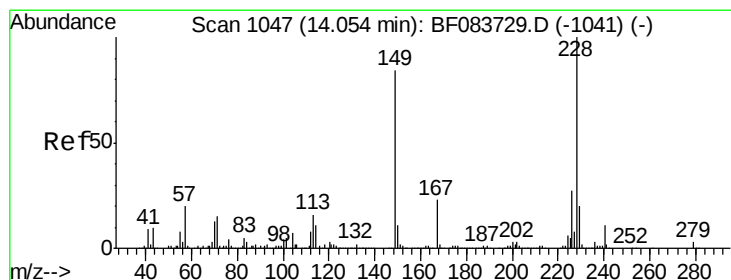
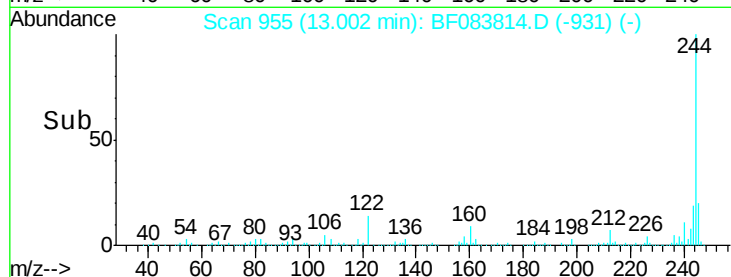
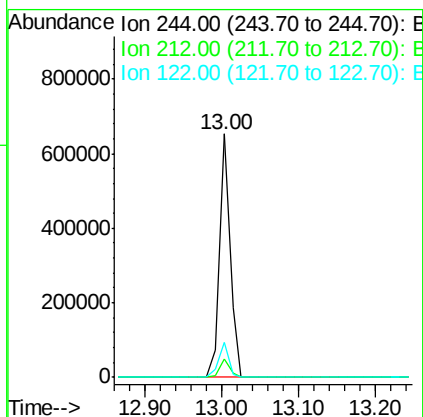
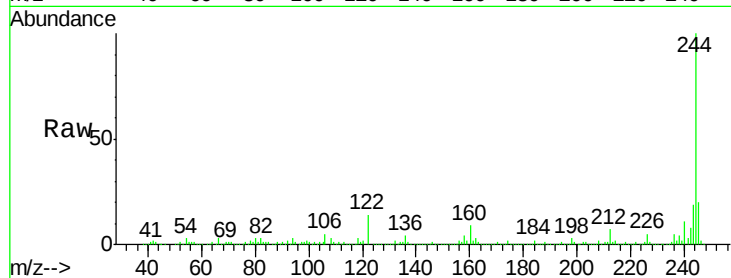




#78
 Terphenyl-d14
 Concen: 42.25 ng
 RT: 13.00 min Scan# 955
 Delta R.T. -0.02 min
 Lab File: BF083814.D
 Acq: 15 Dec 2015 12:53

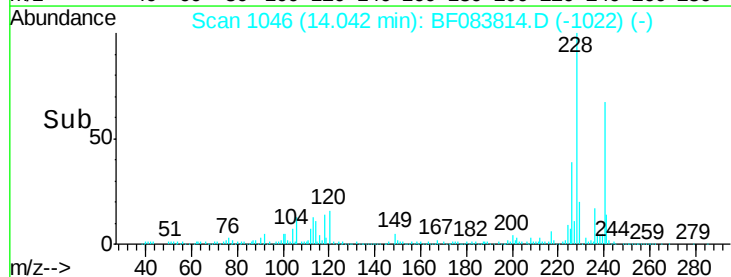
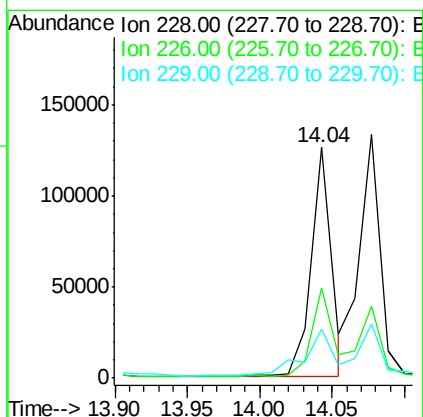
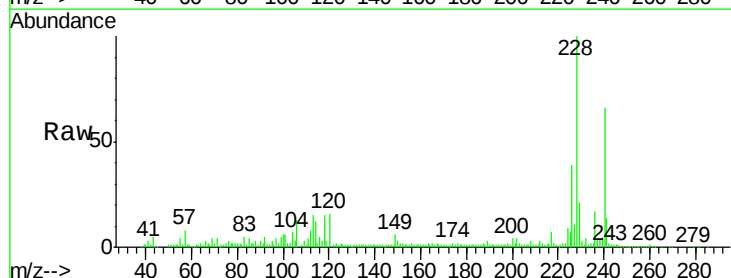
Instrument :
 BNA_F
 ClientSampleId :
 K203-0-2

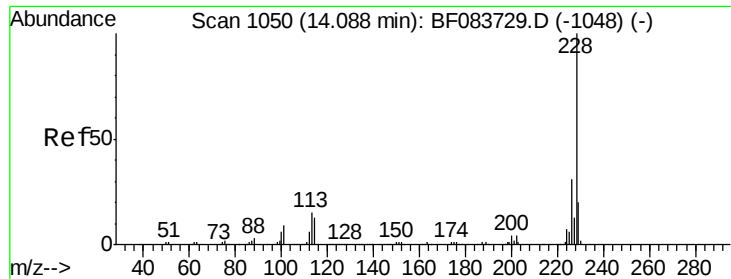
Tgt Ion:244 Resp: 631853
 Ion Ratio Lower Upper
 244 100
 212 7.5 6.1 9.1
 122 14.3 11.0 16.6



#80
 Benzo(a)anthracene
 Concen: 6.71 ng
 RT: 14.04 min Scan# 1046
 Delta R.T. -0.02 min
 Lab File: BF083814.D
 Acq: 15 Dec 2015 12:53

Tgt Ion:228 Resp: 122704
 Ion Ratio Lower Upper
 228 100
 226 39.1 22.3 33.5#
 229 21.1 15.7 23.5





#82

Chrysene

Concen: 6.88 ng

RT: 14.04 min Scan# 1046

Delta R.T. -0.06 min

Lab File: BF083814.D

Acq: 15 Dec 2015 12:53

Instrument :

BNA_F

ClientSampleId :

K203-0-2

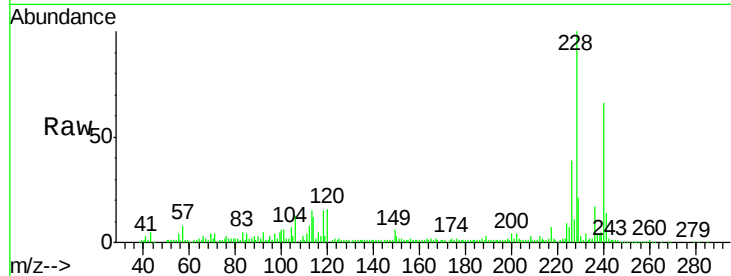
Tgt Ion:228 Resp: 122704

Ion Ratio Lower Upper

228 100

226 39.1 24.7 37.1#

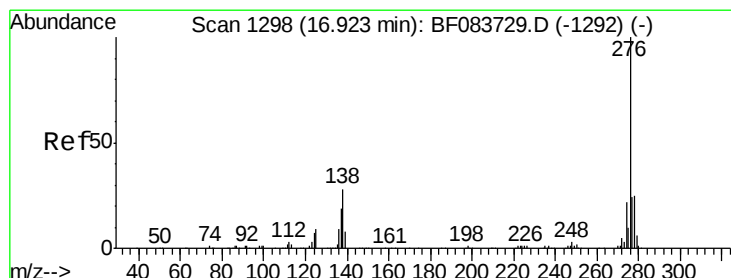
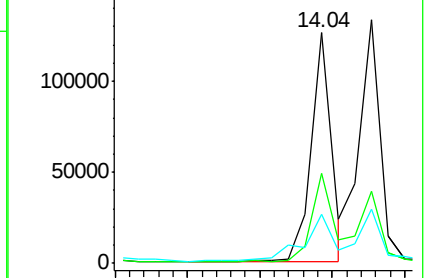
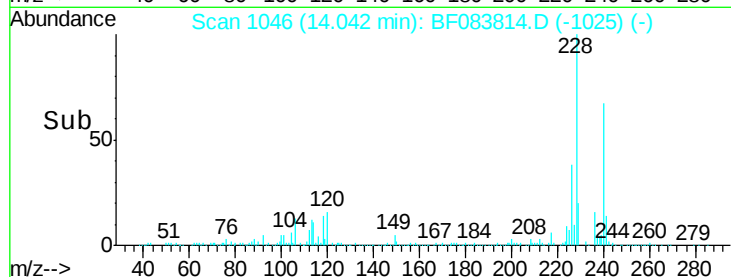
229 21.1 16.3 24.5



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: 6.52 ng

RT: 16.91 min Scan# 1297

Delta R.T. -0.03 min

Lab File: BF083814.D

Acq: 15 Dec 2015 12:53

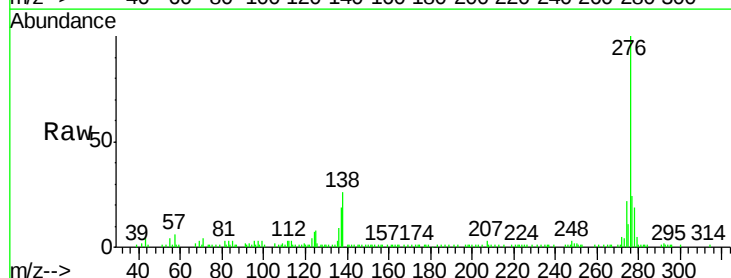
Tgt Ion:276 Resp: 114319

Ion Ratio Lower Upper

276 100

138 25.2 0.0 0.0#

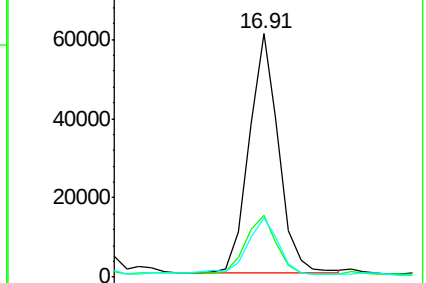
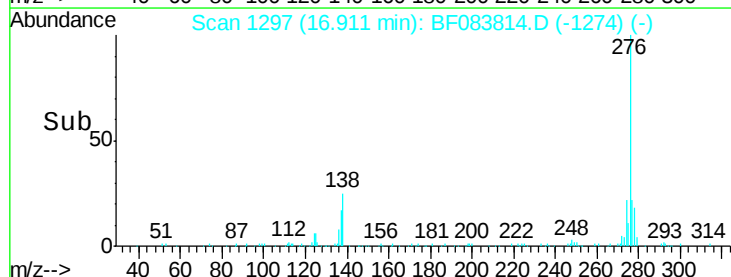
277 26.4 0.0 0.0#

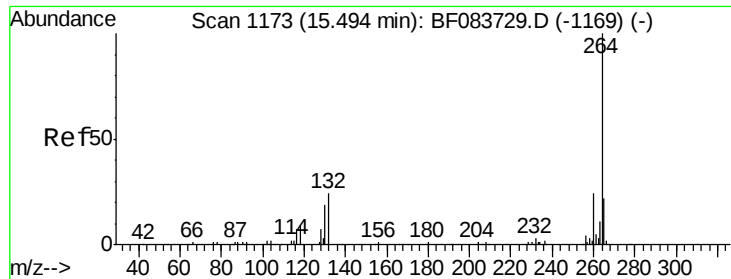


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E





#86

Perylene-d12

Concen: 20.00 ng

RT: 15.49 min Scan# 1173

Delta R.T. -0.01 min

Lab File: BF083814.D

Acq: 15 Dec 2015 12:53

Instrument :

BNA_F

ClientSampleId :

K203-0-2

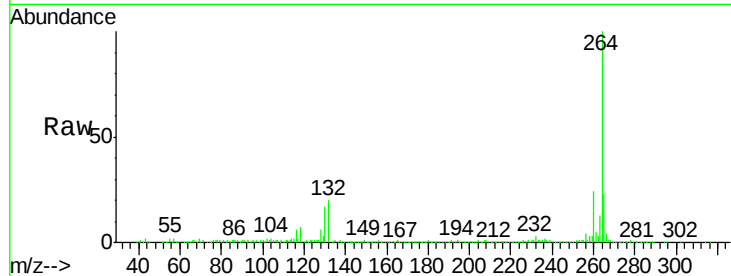
Tgt Ion:264 Resp: 294353

Ion Ratio Lower Upper

264 100

260 23.7 19.4 29.0

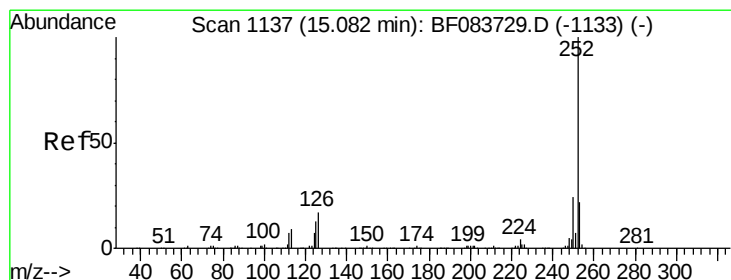
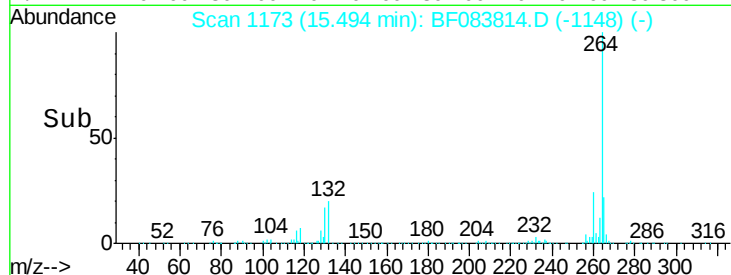
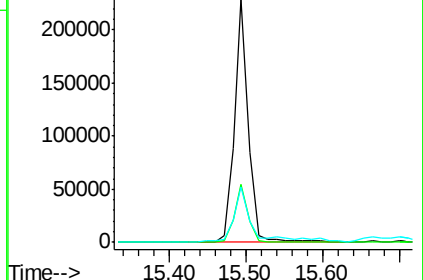
265 22.6 17.8 26.6



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: 13.50 ng

RT: 15.08 min Scan# 1137

Delta R.T. -0.01 min

Lab File: BF083814.D

Acq: 15 Dec 2015 12:53

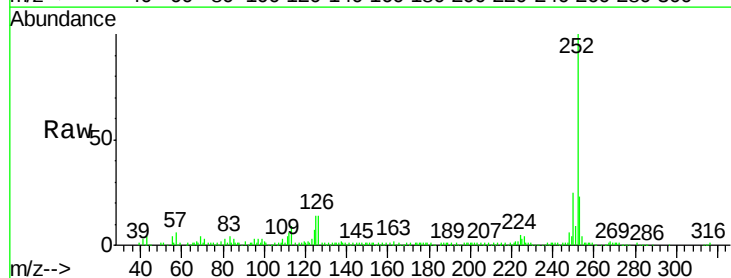
Tgt Ion:252 Resp: 253551

Ion Ratio Lower Upper

252 100

253 22.7 18.2 27.4

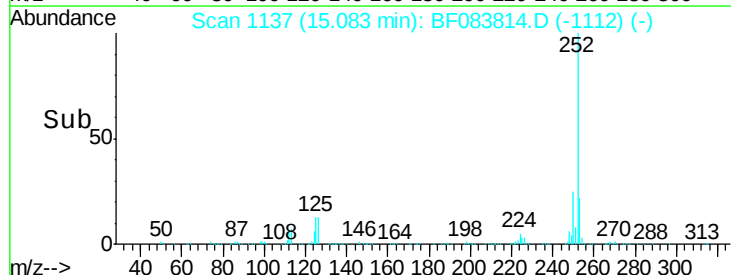
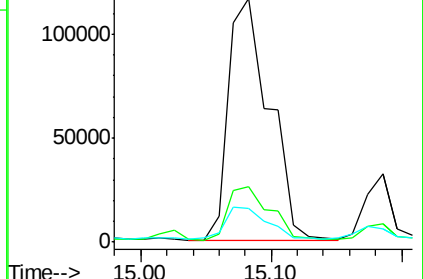
125 14.1 8.2 12.4#

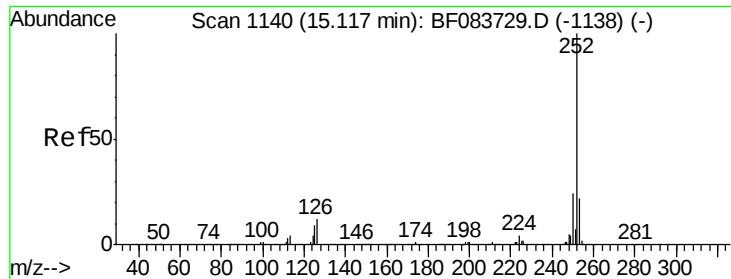


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

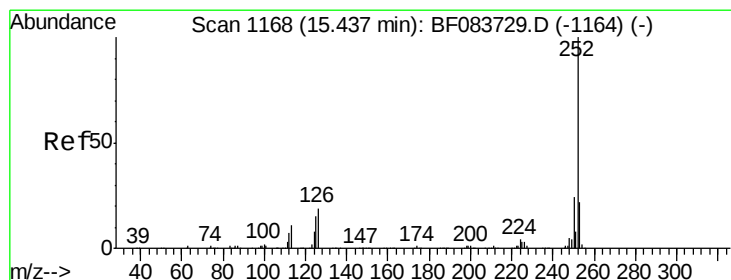
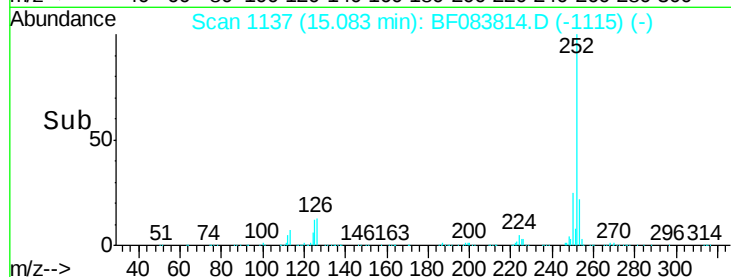
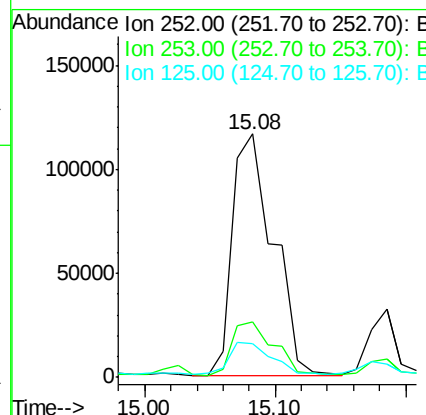
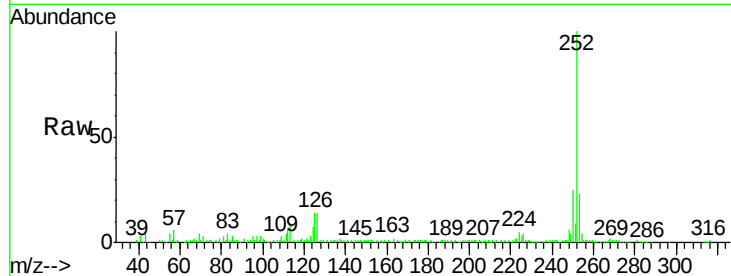




#88
Benzo(k)fluoranthene
Concen: 14.90 ng
RT: 15.08 min Scan# 1137
Delta R.T. -0.05 min
Lab File: BF083814.D
Acq: 15 Dec 2015 12:53

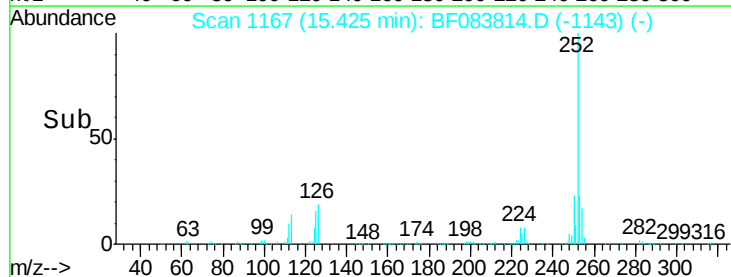
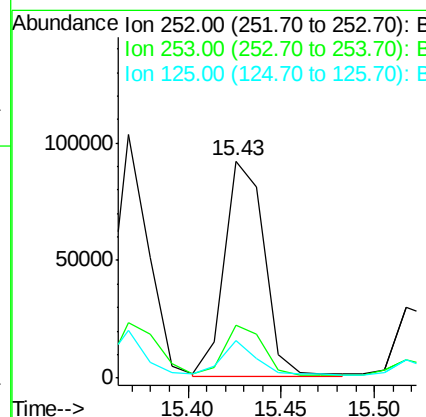
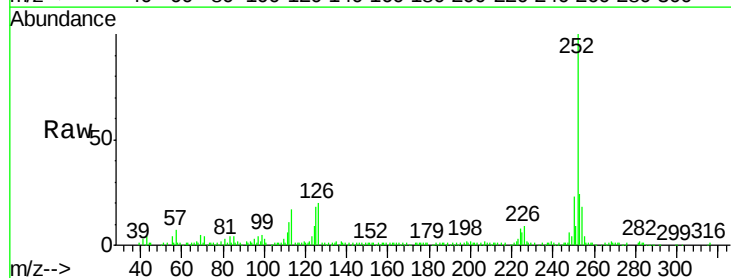
Instrument :
BNA_F
ClientSampleId :
K203-0-2

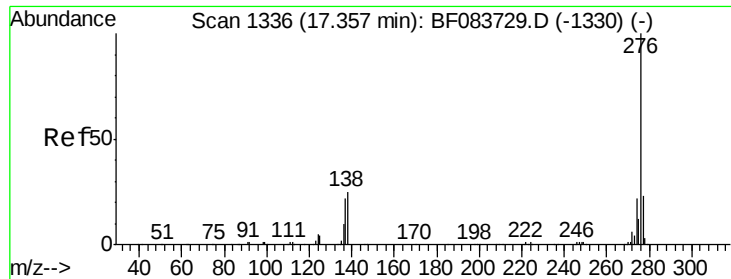
Tgt Ion:	252	Resp:	253551
Ion Ratio	Lower	Upper	
252	100		
253	22.7	18.6	27.8
125	14.1	11.5	17.3



#89
Benzo(a)pyrene
Concen: 8.12 ng
RT: 15.43 min Scan# 1167
Delta R.T. -0.02 min
Lab File: BF083814.D
Acq: 15 Dec 2015 12:53

Tgt Ion:	252	Resp:	136080
Ion Ratio	Lower	Upper	
252	100		
253	24.3	17.5	26.3
125	17.6	11.0	16.6#





#91

Benzo(g,h,i)perylene

Concen: 7.59 ng

RT: 17.35 min Scan# 1335

Delta R.T. -0.03 min

Lab File: BF083814.D

Acq: 15 Dec 2015 12:53

Instrument :

BNA_F

ClientSampleId :

K203-0-2

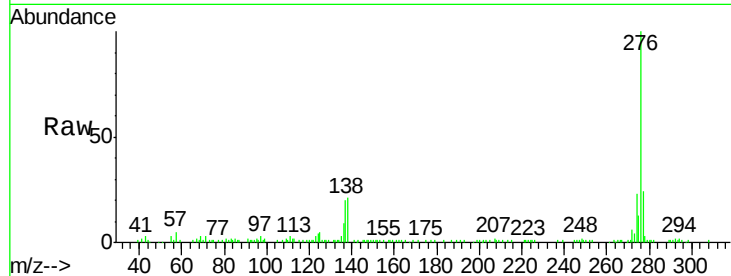
Tgt Ion: 276 Resp: 130032

Ion Ratio Lower Upper

276 100

277 23.7 19.2 28.8

138 21.3 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

