

Data Path : V:\HPCHEM1\BNA F\DATA\BF121515\
 Data File : BF083826.D
 Acq On : 15 Dec 2015 18:51
 Operator : UM/IZ
 Sample : G4739-16
 Misc :
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 K201-27-28

Quant Time: Dec 16 11:49:54 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

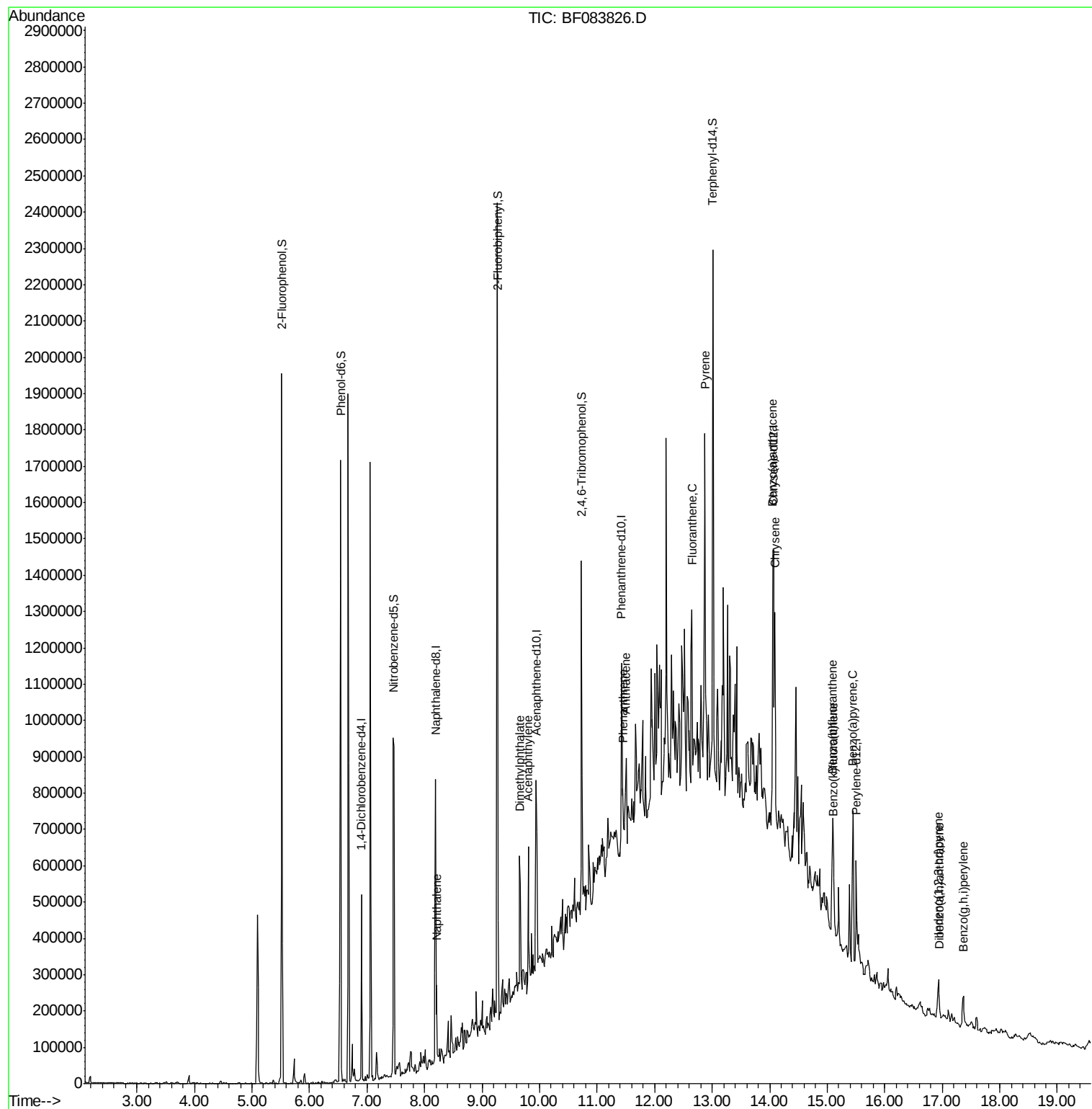
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.90	152	92086	20.00	ng	-0.02
21) Naphthalene-d8	8.19	136	360558	20.00	ng	-0.02
38) Acenaphthene-d10	9.94	164	129740	20.00	ng	-0.02
63) Phenanthrene-d10	11.42	188	197094	20.00	ng	-0.02
75) Chrysene-d12	14.07	240	183975	20.00	ng	-0.01
86) Perylene-d12	15.51	264	138247	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.52	112	603931	105.80	ng	-0.01
7) Phenol-d6	6.54	99	887815	122.82	ng	0.00
23) Nitrobenzene-d5	7.46	82	472696	73.35	ng	-0.02
41) 2,4,6-Tribromophenol	10.73	330	134607	101.82	ng	-0.02
44) 2-Fluorobiphenyl	9.26	172	659516	70.89	ng	-0.02
78) Terphenyl-d14	13.01	244	451149	52.75	ng	-0.01
Target Compounds						Qvalue
31) Naphthalene	8.21	128	107805	5.74	ng	99
48) Acenaphthylene	9.80	152	162340	11.37	ng	100
49) Dimethylphthalate	9.65	163	143625	14.20	ng	98
70) Phenanthrene	11.45	178	57020m	5.45	ng	
71) Anthracene	11.50	178	108405	9.97	ng	98
74) Fluoranthene	12.65	202	215279	19.90	ng	92
77) Pyrene	12.88	202	563714	38.77	ng	99
80) Benzo(a)anthracene	14.05	228	249842m	23.88	ng	
82) Chrysene	14.09	228	297857m	29.19	ng	
85) Indeno(1,2,3-cd)pyrene	16.93	276	62419	6.23	ng	# 100
87) Benzo(b)fluoranthene	15.09	252	194992m	22.11	ng	
88) Benzo(k)fluoranthene	15.11	252	67240m	8.41	ng	
89) Benzo(a)pyrene	15.45	252	208937	26.55	ng	98
90) Dibenzo(a,h)anthracene	16.95	278	21120	2.70	ng	# 74
91) Benzo(a,h,i)perylene	17.37	276	71168	8.85	ng	99

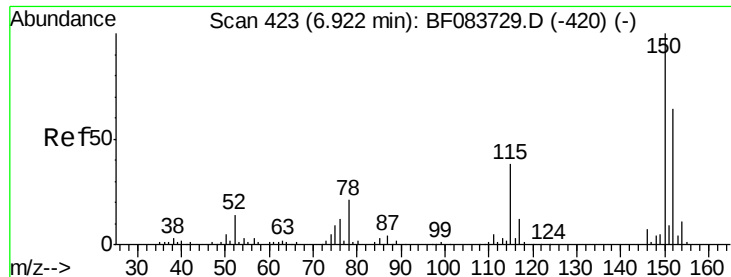
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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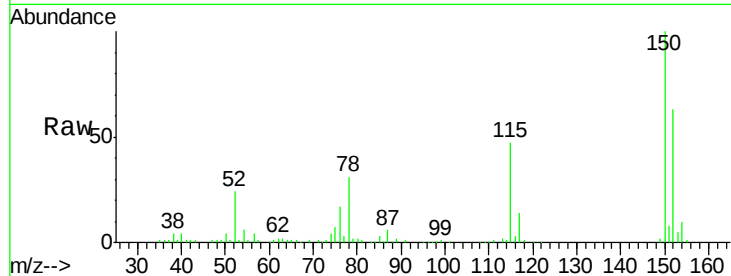


#1

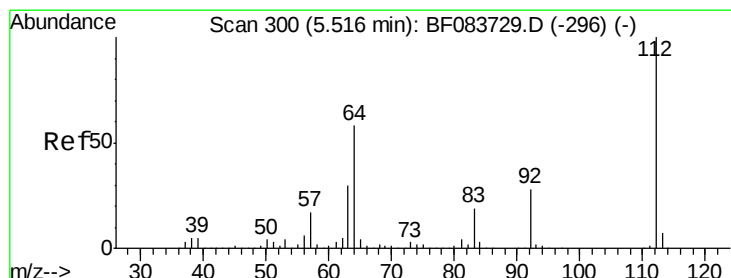
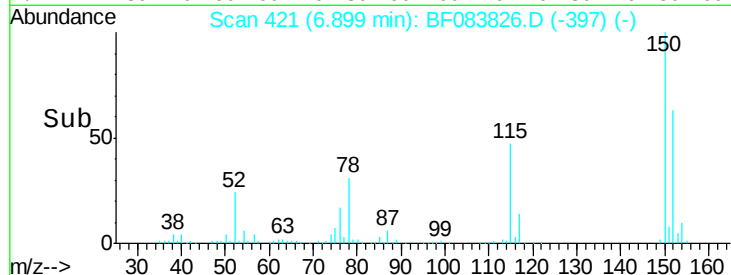
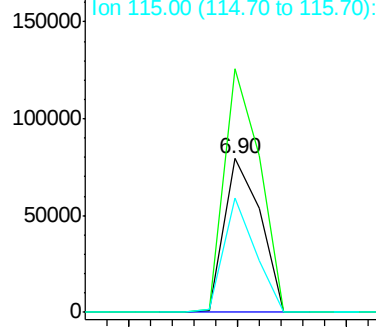
1,4-Dichlorobenzene-d4
 Concen: 20.00 ng
 RT: 6.90 min Scan# 421
 Delta R.T. -0.02 min
 Lab File: BF083826.D
 Acq: 15 Dec 2015 18:51

Instrument :
 BNA_F
 ClientSampleId :
 K201-27-28

Tot Ion:152 Resp: 92086
 Ion Ratio Lower Upper
 152 100
 150 158.1 126.5 189.7
 115 74.3 52.3 78.5



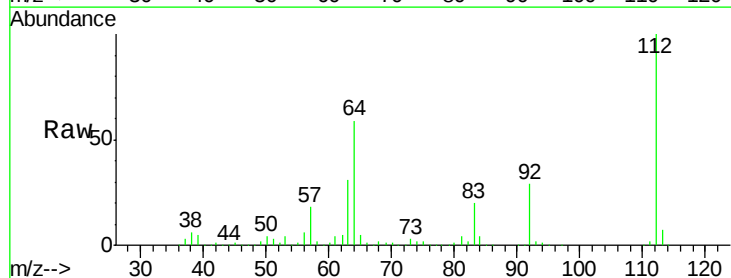
Abundance Ion 152.00 (151.70 to 152.70): E
 Ion 150.00 (149.70 to 150.70): E
 Ion 115.00 (114.70 to 115.70): E



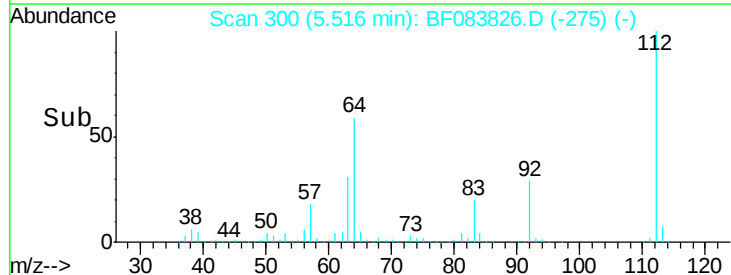
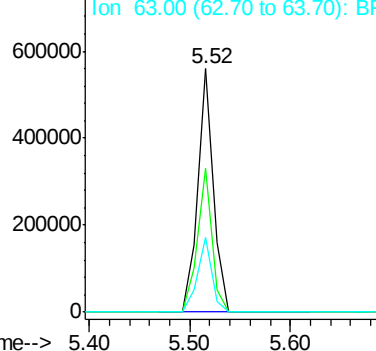
#5

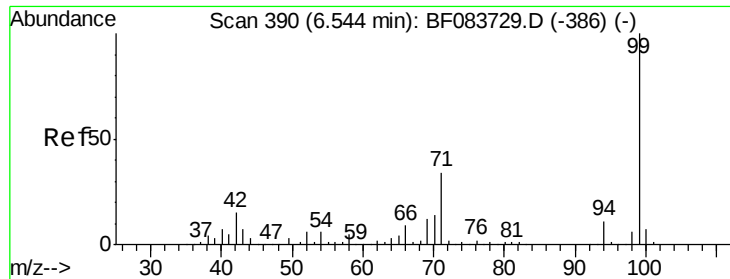
2-Fluorophenol
 Concen: 105.80 ng
 RT: 5.52 min Scan# 300
 Delta R.T. -0.01 min
 Lab File: BF083826.D
 Acq: 15 Dec 2015 18:51

Tgt Ion:112 Resp: 603931
 Ion Ratio Lower Upper
 112 100
 64 59.1 50.5 75.7
 63 30.6 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: 122.82 ng

RT: 6.54 min Scan# 390

Delta R.T. 0.00 min

Lab File: BF083826.D

Acq: 15 Dec 2015 18:51

Instrument :

BNA_F

ClientSampleId :

K201-27-28

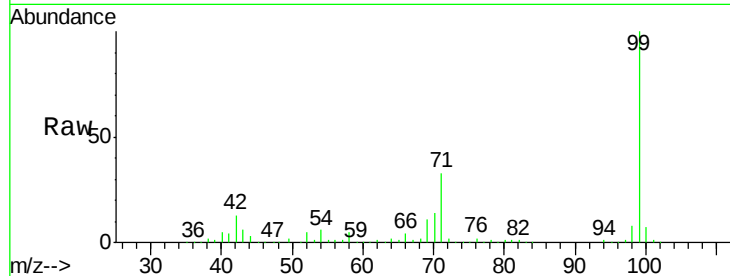
Tot Ion: 99 Resp: 887815

Ion Ratio Lower Upper

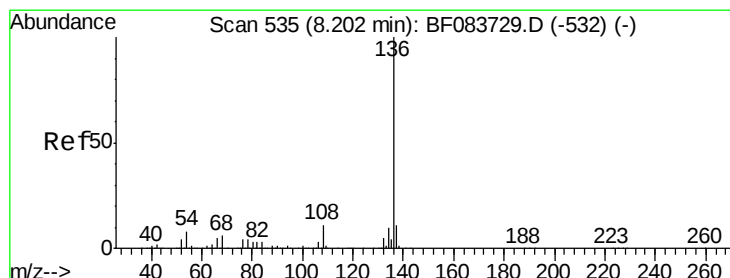
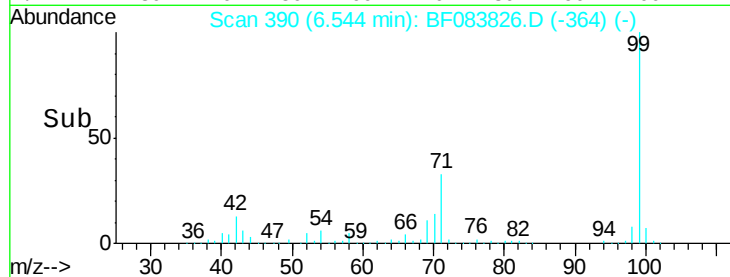
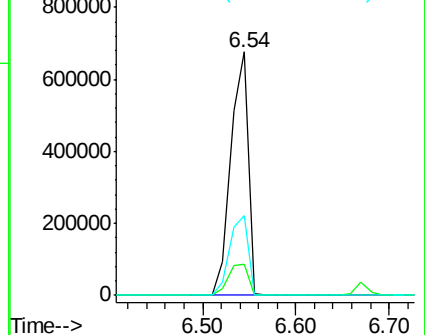
99 100

42 12.6 17.3 25.9#

71 32.6 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

RT: 8.19 min Scan# 534

Delta R.T. -0.02 min

Lab File: BF083826.D

Acq: 15 Dec 2015 18:51

Tgt Ion: 136 Resp: 360558

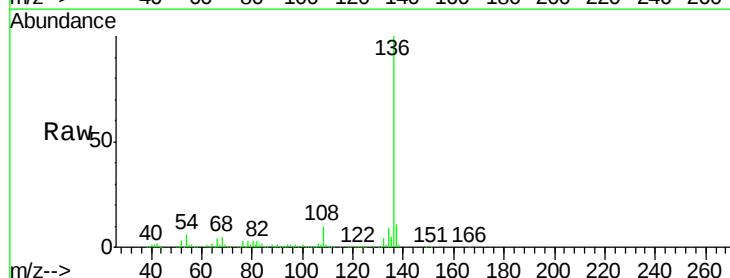
Ion Ratio Lower Upper

136 100

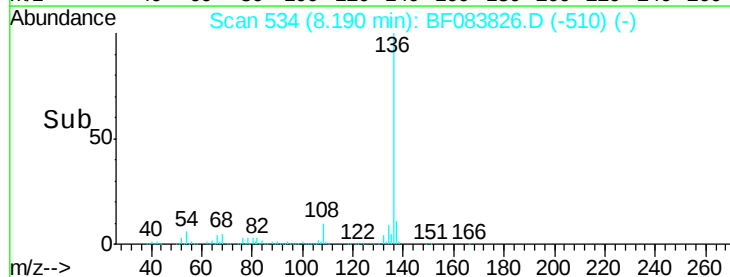
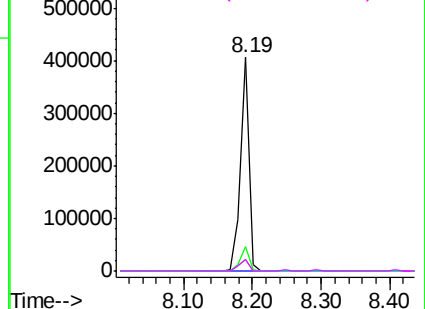
137 11.2 8.7 13.1

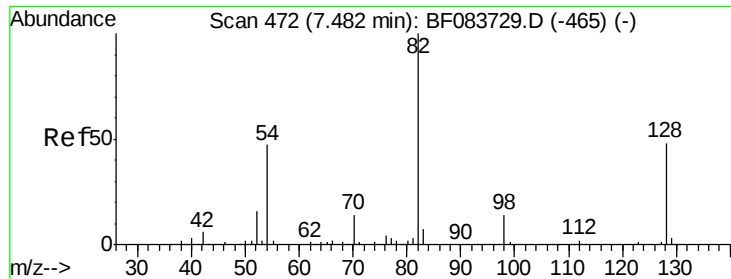
54 5.7 7.8 11.6#

68 5.2 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: 73.35 ng

RT: 7.46 min Scan# 470

Delta R.T. -0.02 min

Lab File: BF083826.D

Acq: 15 Dec 2015 18:51

Instrument :

BNA_F

ClientSampleId :

K201-27-28

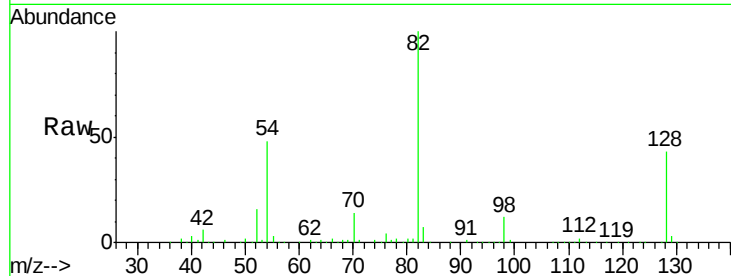
Tot Ion: 82 Resp: 472696

Ion Ratio Lower Upper

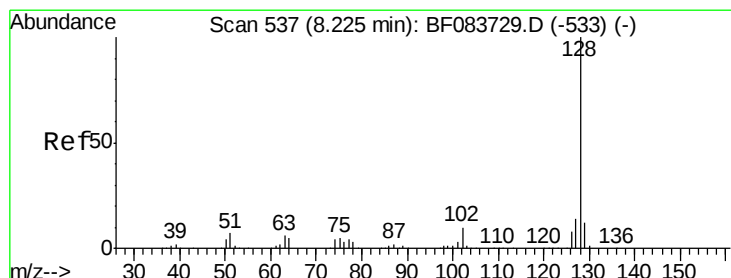
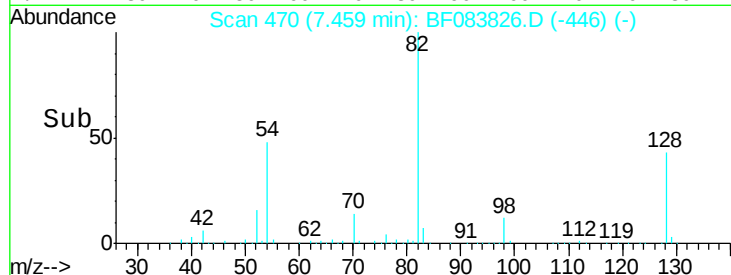
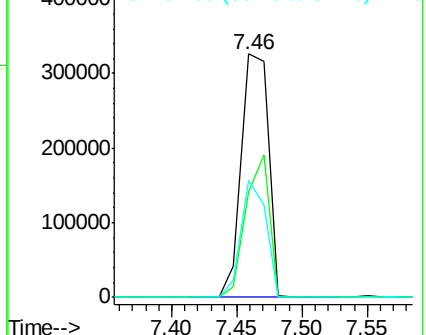
82 100

128 43.2 30.7 46.1

54 48.1 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



#31

Naphthalene

Concen: 5.74 ng

RT: 8.21 min Scan# 536

Delta R.T. -0.02 min

Lab File: BF083826.D

Acq: 15 Dec 2015 18:51

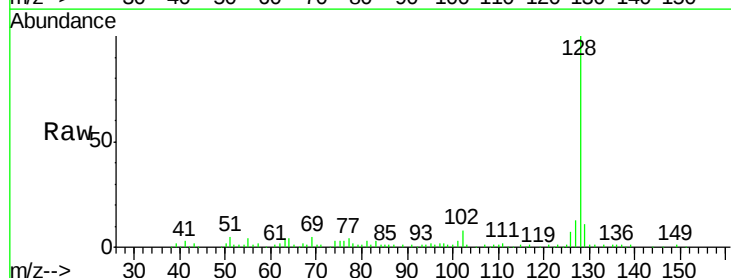
Tgt Ion: 128 Resp: 107805

Ion Ratio Lower Upper

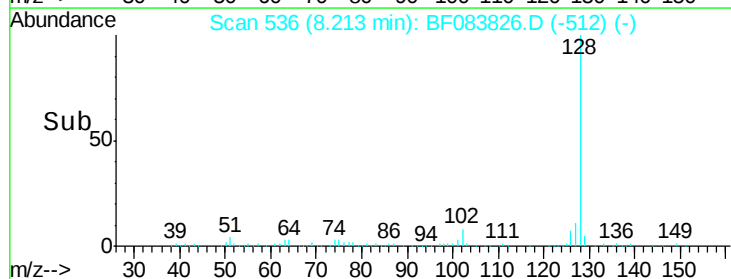
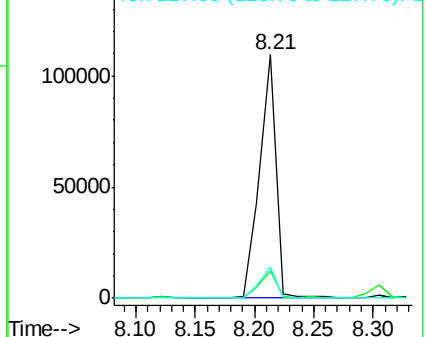
128 100

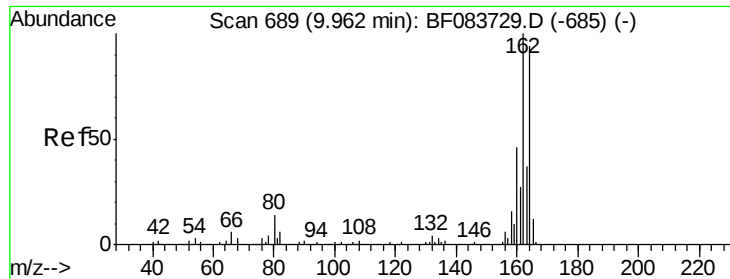
129 11.3 8.6 13.0

127 12.9 10.6 16.0



Abundance Ion 128.00 (127.70 to 128.70): E
Ion 129.00 (128.70 to 129.70): E
Ion 127.00 (126.70 to 127.70): E





#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.94 min Scan# 687

Delta R.T. -0.02 min

Lab File: BF083826.D

Acq: 15 Dec 2015 18:51

Instrument :

BNA_F

ClientSampleId :

K201-27-28

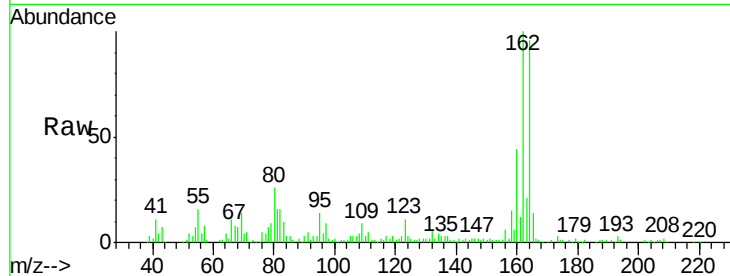
Tot Ion:164 Resp: 129740

Ion Ratio Lower Upper

164 100

162 104.1 78.8 118.2

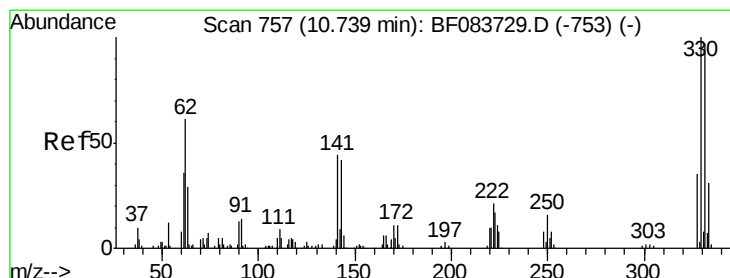
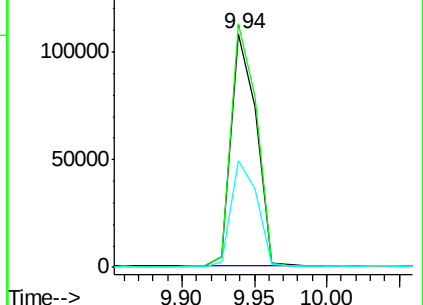
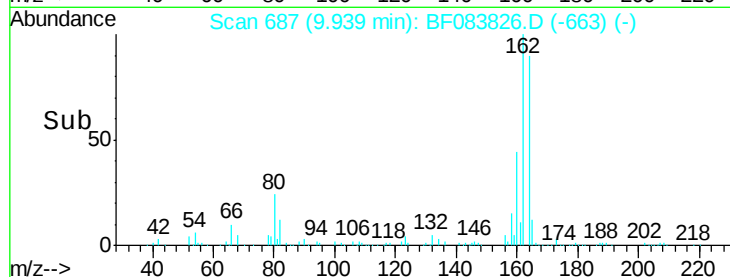
160 45.8 33.4 50.2



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: 101.82 ng

RT: 10.73 min Scan# 756

Delta R.T. -0.02 min

Lab File: BF083826.D

Acq: 15 Dec 2015 18:51

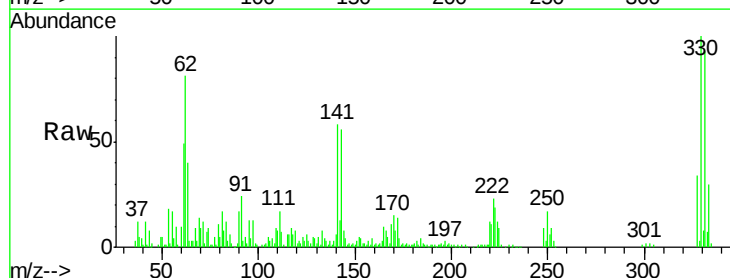
Tgt Ion:330 Resp: 134607

Ion Ratio Lower Upper

330 100

332 95.1 0.0 0.0#

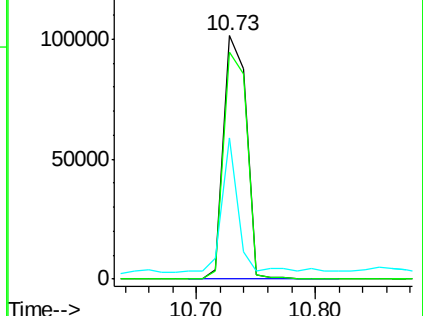
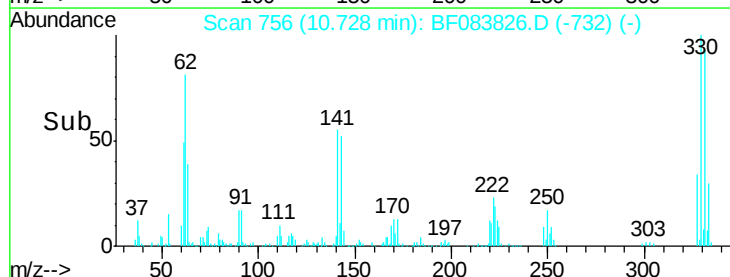
141 36.4 0.0 0.0#

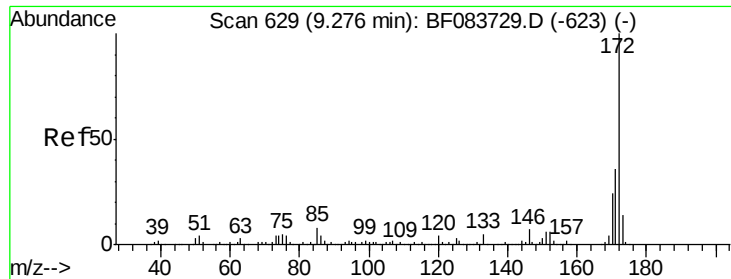


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E





#44

2-Fluorobiphenyl

Concen: 70.89 ng

RT: 9.26 min Scan# 628

Delta R.T. -0.02 min

Lab File: BF083826.D

Acq: 15 Dec 2015 18:51

Instrument :

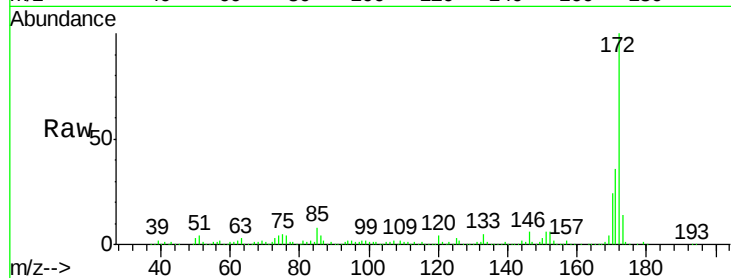
BNA_F

ClientSampleId :

K201-27-28

Tot Ion:172 Resp: 659516

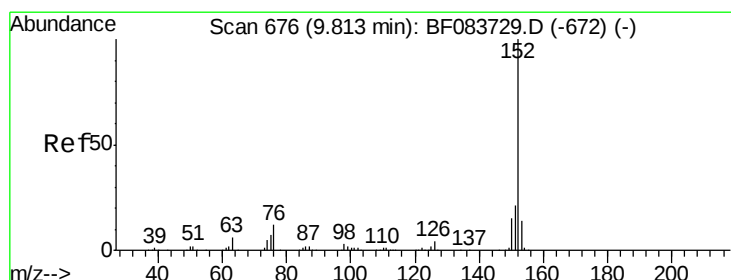
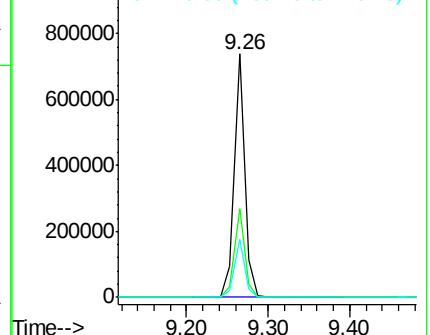
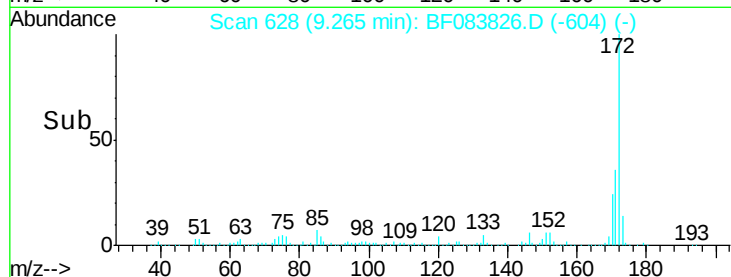
Ion	Ratio	Lower	Upper
172	100		
171	36.4	28.6	42.8
170	24.0	19.4	29.0



Abundance Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E



#48

Acenaphthylene

Concen: 11.37 ng

RT: 9.80 min Scan# 675

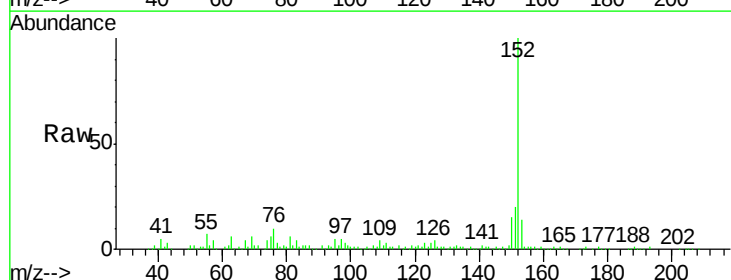
Delta R.T. -0.02 min

Lab File: BF083826.D

Acq: 15 Dec 2015 18:51

Tgt Ion:152 Resp: 162340

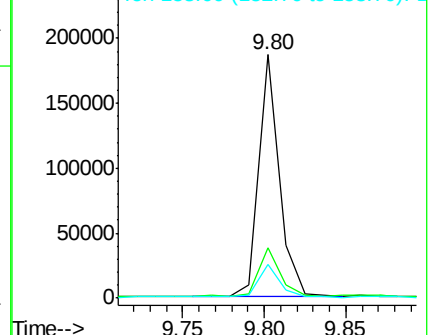
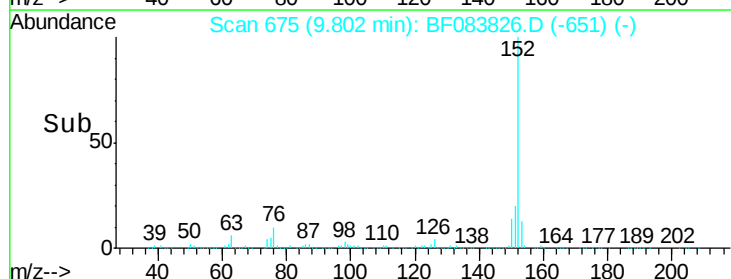
Ion	Ratio	Lower	Upper
152	100		
151	20.5	16.3	24.5
153	13.7	10.8	16.2

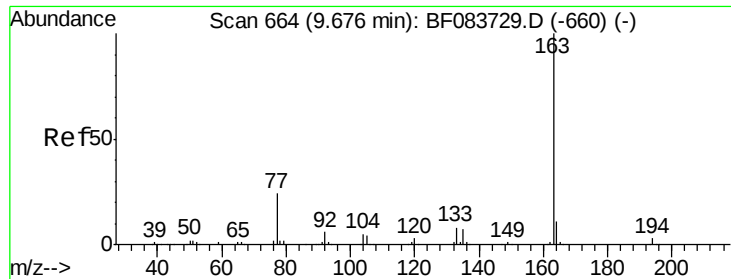


Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E

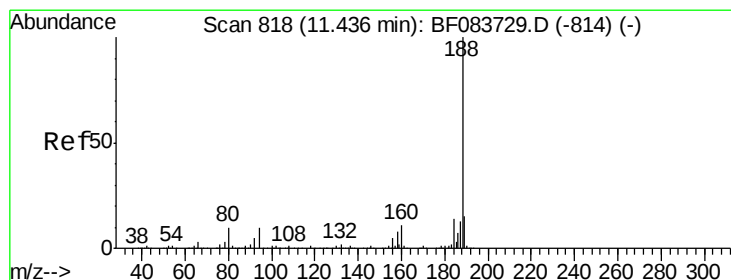
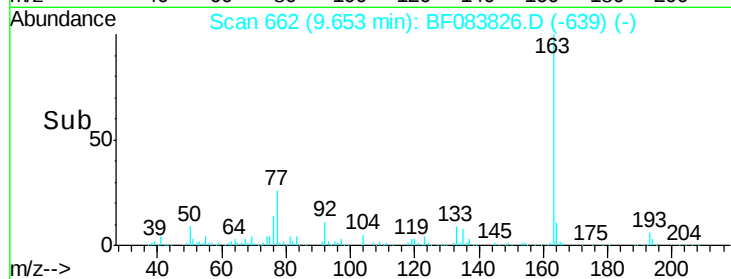
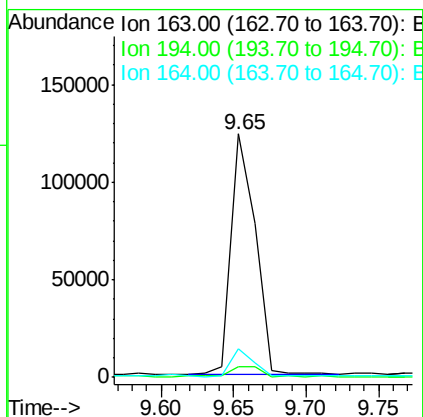
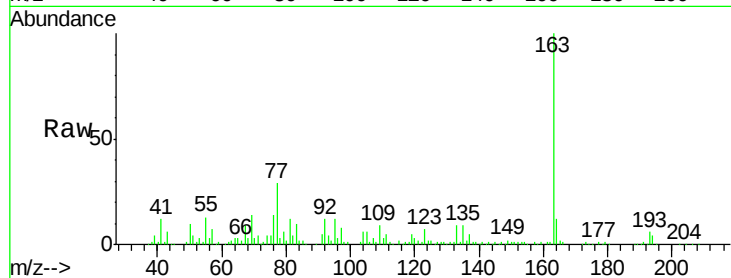




#49
Dimethylphthalate
Concen: 14.20 ng
RT: 9.65 min Scan# 662
Delta R.T. -0.03 min
Lab File: BF083826.D
Acq: 15 Dec 2015 18:51

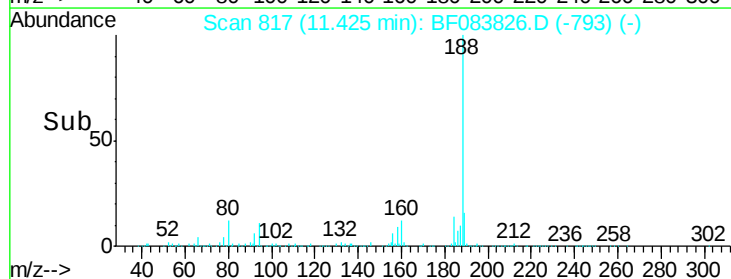
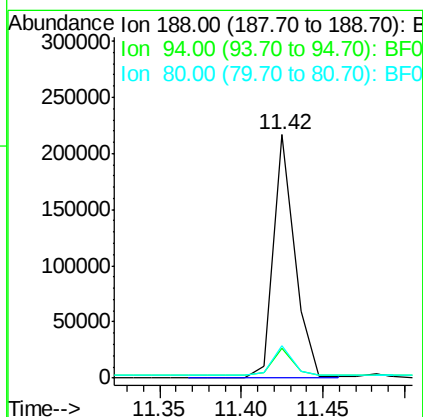
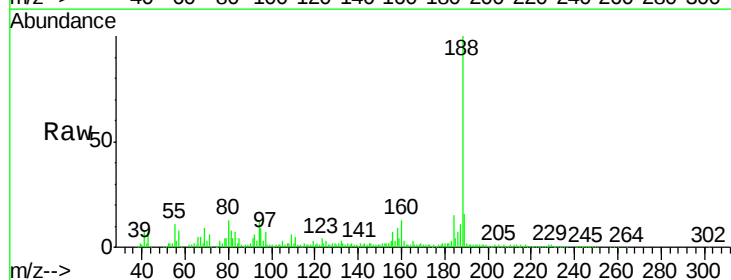
Instrument :
BNA_F
ClientSampleId :
K201-27-28

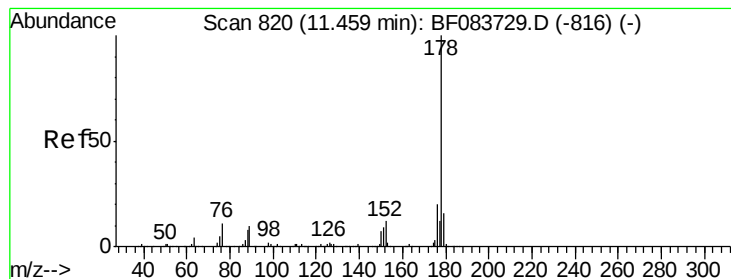
Tot Ion:163 Resp: 143625
Ion Ratio Lower Upper
163 100
194 4.2 2.8 4.2
164 11.7 8.6 13.0



#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.42 min Scan# 817
Delta R.T. -0.02 min
Lab File: BF083826.D
Acq: 15 Dec 2015 18:51

Tgt Ion:188 Resp: 197094
Ion Ratio Lower Upper
188 100
94 12.0 9.4 14.2
80 13.3 10.6 16.0





#70

Phenanthrene

Concen: 5.45 ng/mL

RT: 11.45 min Scan# 819

Delta R.T. -0.02 min

Lab File: BF083826.D

Acq: 15 Dec 2015 18:51

Instrument :

BNA_F

ClientSampleId :

K201-27-28

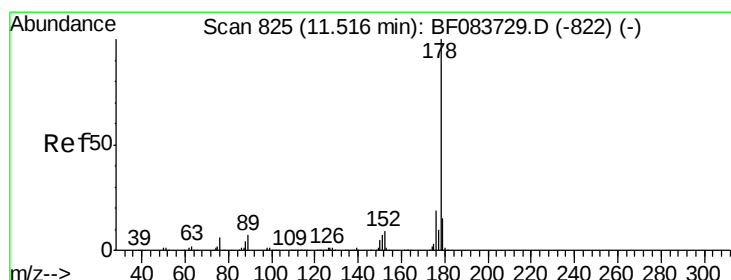
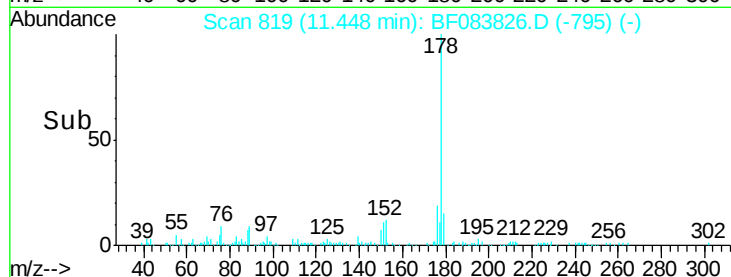
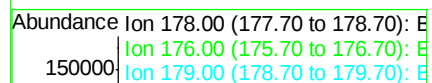
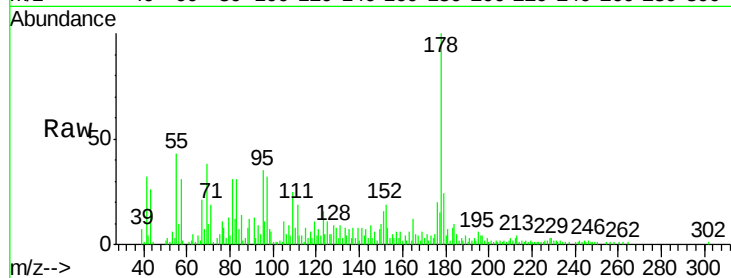
Tot Ion:178 Resp: 57020

Ion Ratio Lower Upper

178 100

176 20.3 15.7 23.5

179 24.0 12.2 18.4#



#71

Anthracene

Concen: 9.97 ng/mL

RT: 11.50 min Scan# 824

Delta R.T. -0.01 min

Lab File: BF083826.D

Acq: 15 Dec 2015 18:51

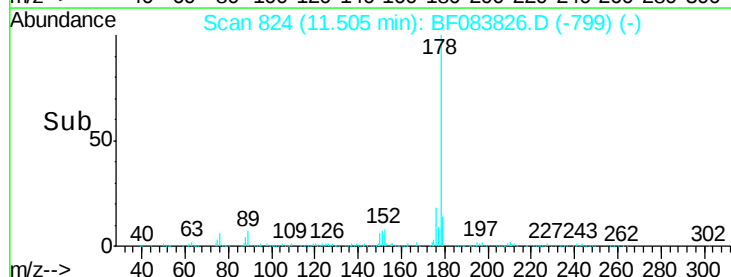
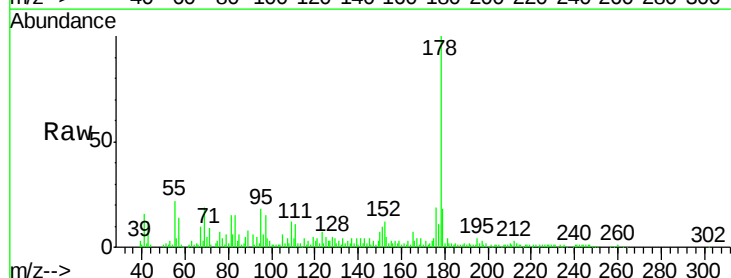
Tgt Ion:178 Resp: 108405

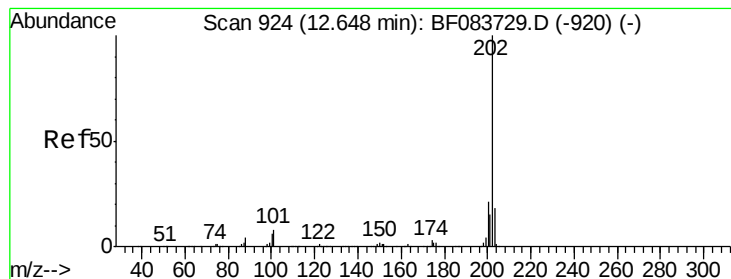
Ion Ratio Lower Upper

178 100

176 19.0 15.2 22.8

179 17.9 12.6 18.8





#74

Fluoranthene

Concen: 19.90 ng

RT: 12.65 min Scan# 924

Delta R.T. 0.00 min

Lab File: BF083826.D

Acq: 15 Dec 2015 18:51

Instrument :

BNA_F

ClientSampleId :

K201-27-28

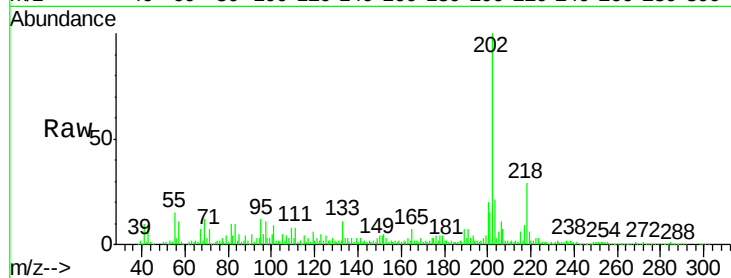
Tot Ion:202 Resp: 215279

Ion Ratio Lower Upper

202 100

101 8.8 0.0 31.5

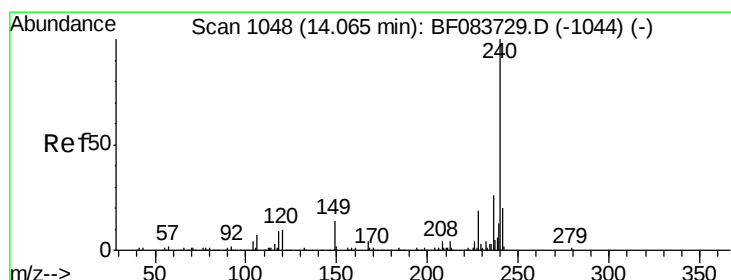
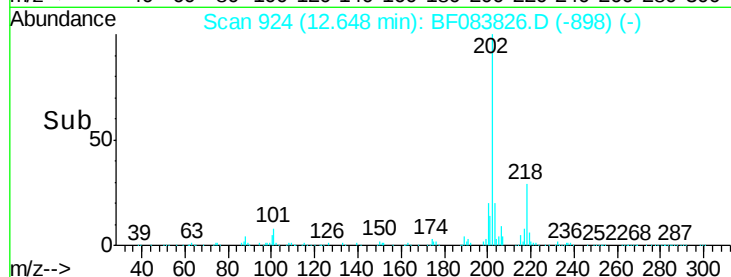
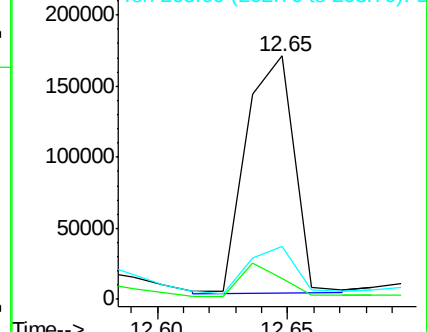
203 21.5 0.0 37.6



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: 14.07 min Scan# 1048

Delta R.T. -0.01 min

Lab File: BF083826.D

Acq: 15 Dec 2015 18:51

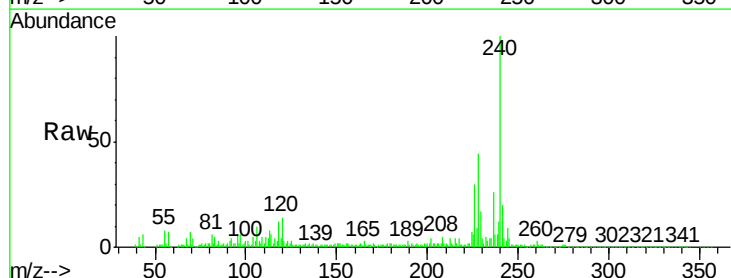
Tgt Ion:240 Resp: 183975

Ion Ratio Lower Upper

240 100

120 14.0 8.1 12.1#

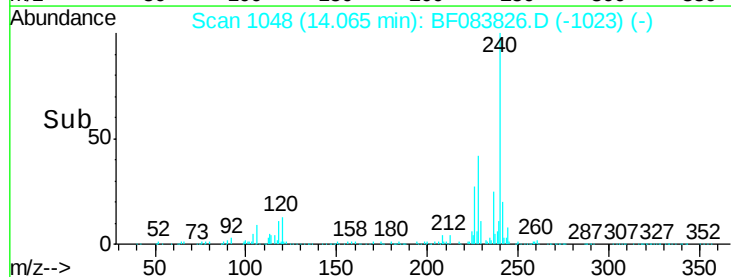
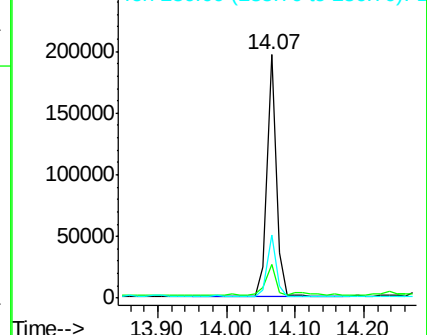
236 25.7 20.8 31.2

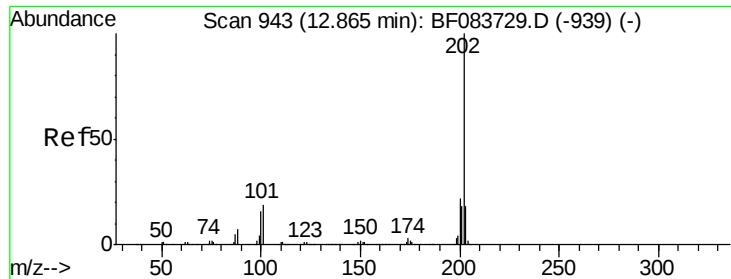


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

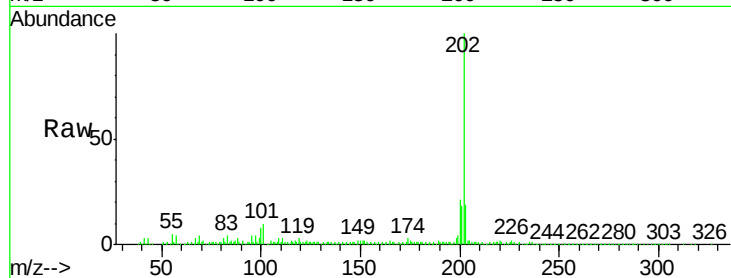




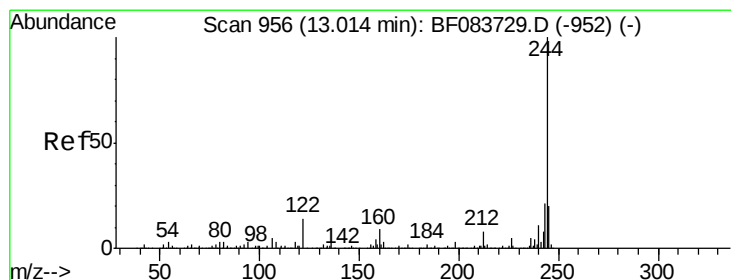
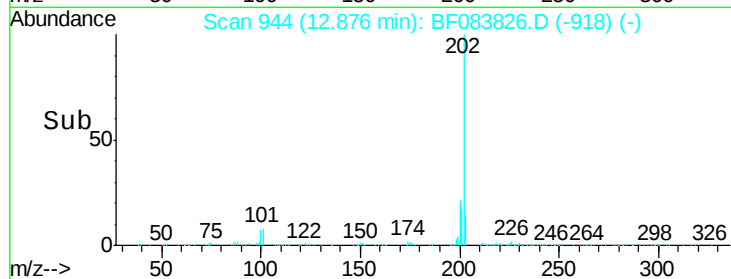
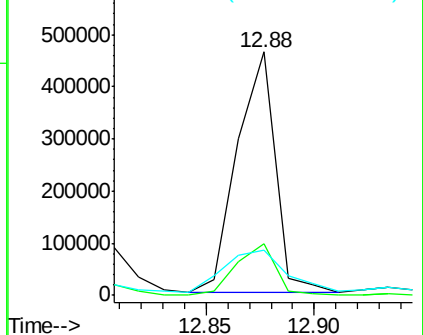
#77
Pvrene
Concen: 38.77 ng
RT: 12.88 min Scan# 944
Delta R.T. 0.00 min
Lab File: BF083826.D
Acq: 15 Dec 2015 18:51

Instrument :
BNA_F
ClientSampleId :
K201-27-28

Tot Ion:202 Resp: 563714
Ion Ratio Lower Upper
202 100
200 21.3 16.7 25.1
203 18.8 14.3 21.5

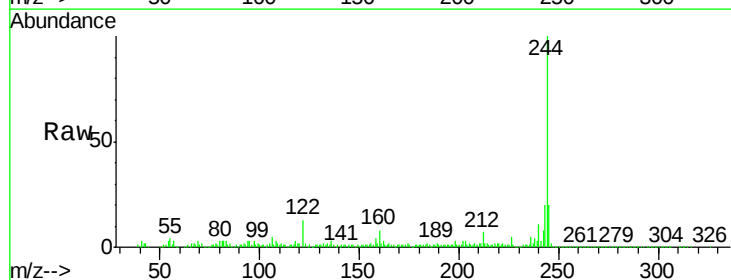


Abundance Ion 202.00 (201.70 to 202.70): E
Ion 200.00 (199.70 to 200.70): E
Ion 203.00 (202.70 to 203.70): E

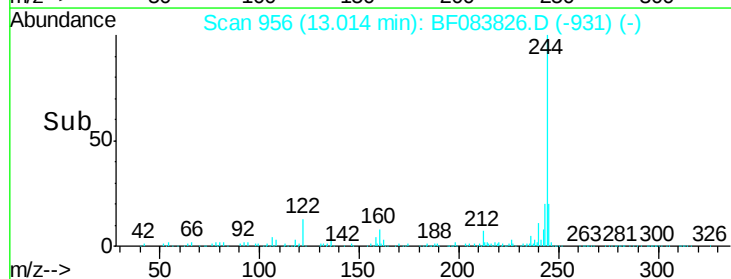
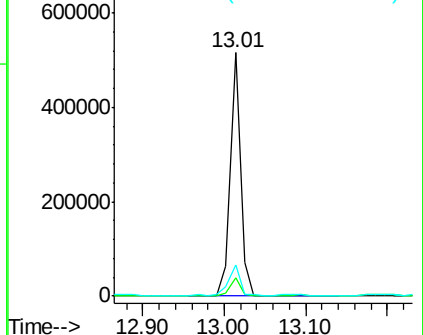


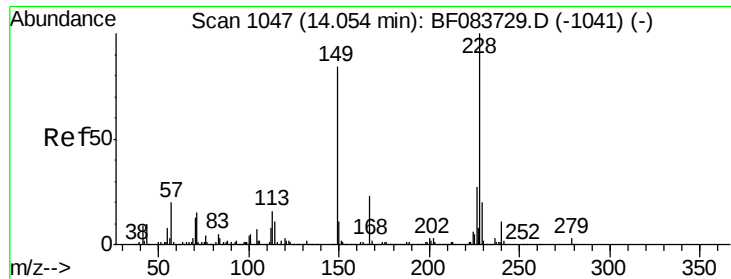
#78
Terphenyl-d14
Concen: 52.75 ng
RT: 13.01 min Scan# 956
Delta R.T. -0.01 min
Lab File: BF083826.D
Acq: 15 Dec 2015 18:51

Tgt Ion:244 Resp: 451149
Ion Ratio Lower Upper
244 100
212 7.5 6.1 9.1
122 13.0 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: 23.88 ng m

RT: 14.05 min Scan# 1047

Delta R.T. -0.01 min

Lab File: BF083826.D

Acq: 15 Dec 2015 18:51

Instrument :

BNA_F

ClientSampleId :

K201-27-28

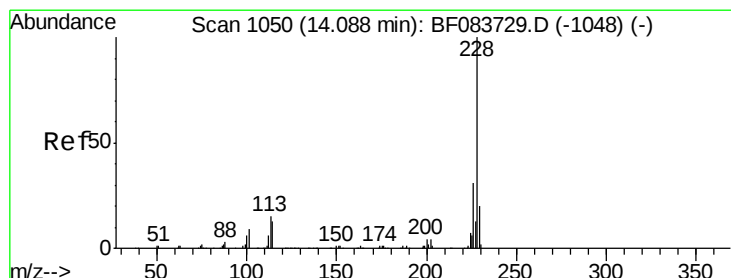
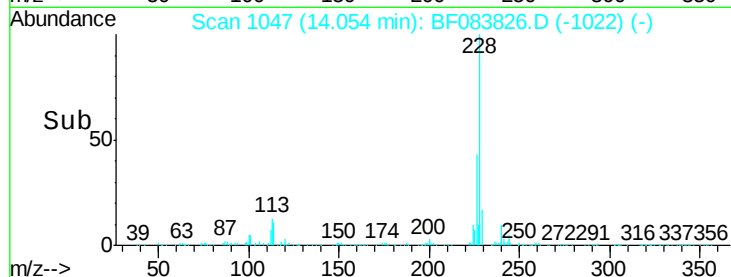
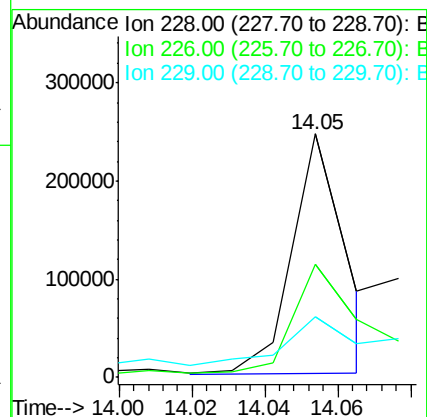
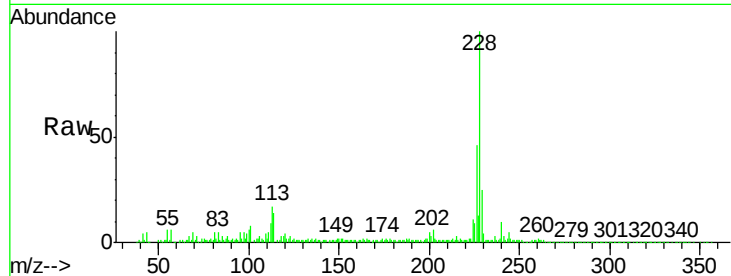
Tot Ion:228 Resp: 249842

Ion Ratio Lower Upper

228 100

226 46.5 22.3 33.5#

229 25.1 15.7 23.5#



#82

Chrysene

Concen: 29.19 ng m

RT: 14.09 min Scan# 1050

Delta R.T. -0.01 min

Lab File: BF083826.D

Acq: 15 Dec 2015 18:51

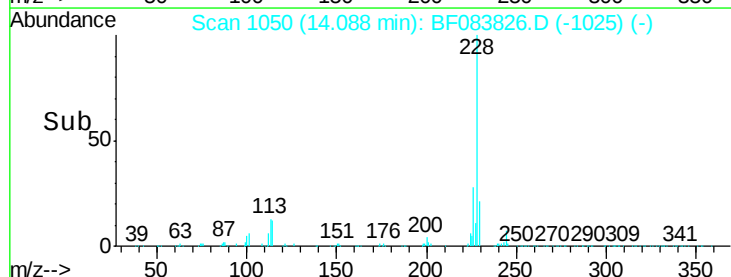
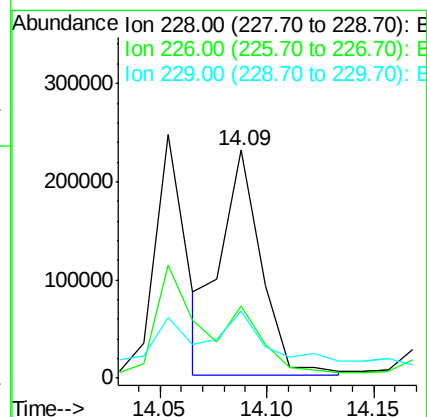
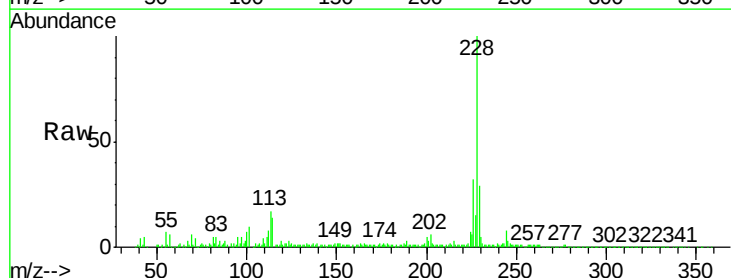
Tgt Ion:228 Resp: 297857

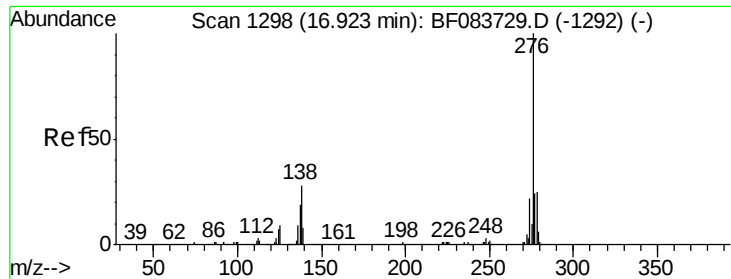
Ion Ratio Lower Upper

228 100

226 31.8 24.7 37.1

229 29.5 16.3 24.5#

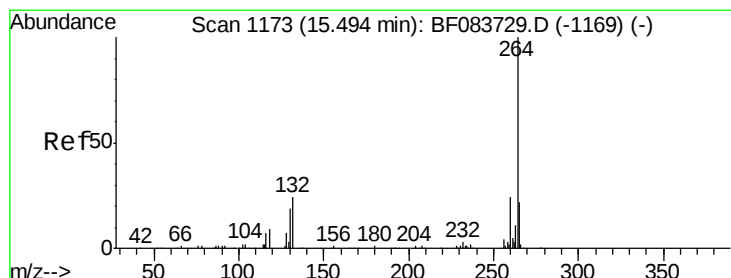
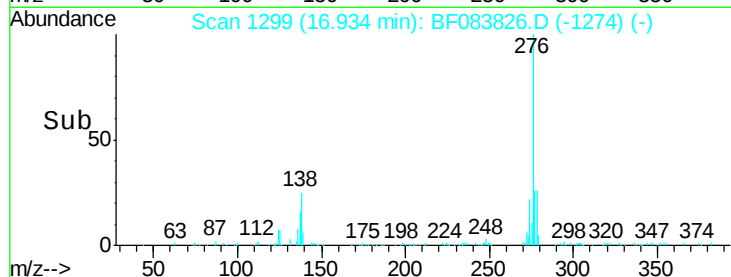
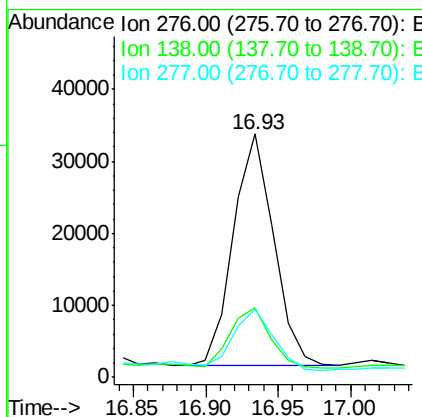
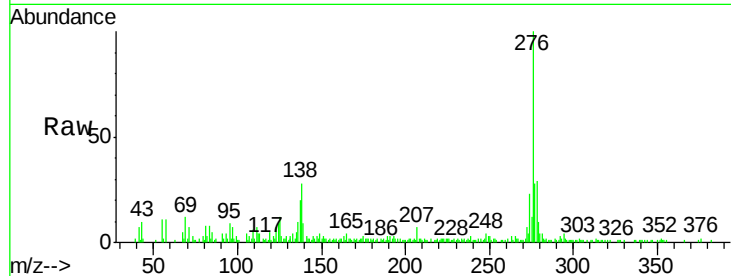




#85
 Indeno(1,2,3-cd)pyrene
 Concen: 6.23 ng
 RT: 16.93 min Scan# 1299
 Delta R.T. -0.01 min
 Lab File: BF083826.D
 Acq: 15 Dec 2015 18:51

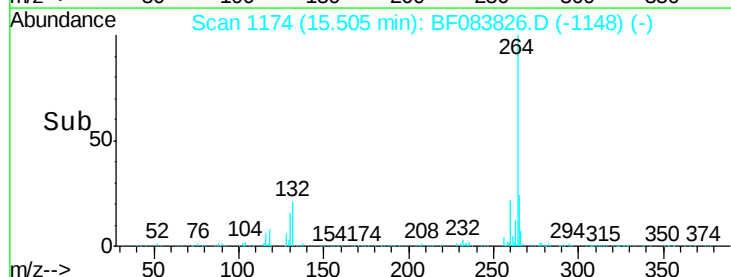
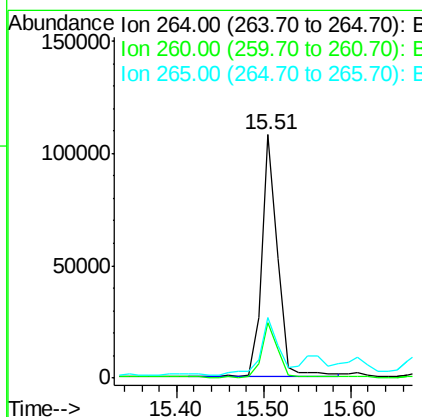
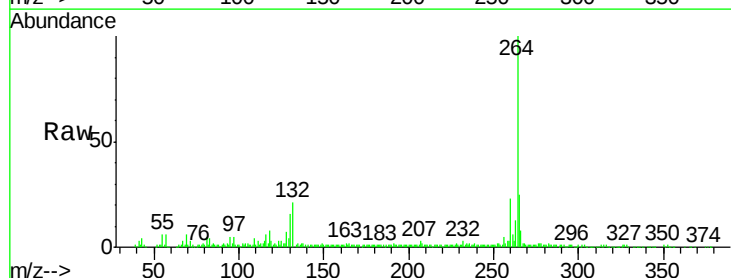
Instrument :
 BNA_F
 ClientSampleId :
 K201-27-28

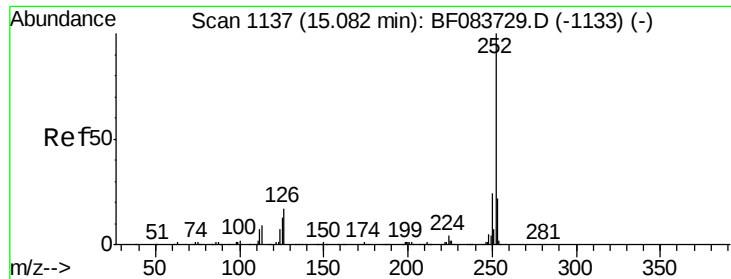
Tot Ion:276 Resp: 62419
 Ion Ratio Lower Upper
 276 100
 138 26.5 0.0 0.0#
 277 25.4 0.0 0.0#



#86
 Perylene-d12
 Concen: 20.00 ng
 RT: 15.51 min Scan# 1174
 Delta R.T. 0.00 min
 Lab File: BF083826.D
 Acq: 15 Dec 2015 18:51

Tgt Ion:264 Resp: 138247
 Ion Ratio Lower Upper
 264 100
 260 22.9 19.4 29.0
 265 25.1 17.8 26.6





#87

Benzo(b)fluoranthene

Concen: 22.11 ng m

RT: 15.09 min Scan# 1138

Delta R.T. 0.00 min

Lab File: BF083826.D

Acq: 15 Dec 2015 18:51

Instrument :

BNA_F

ClientSampleId :

K201-27-28

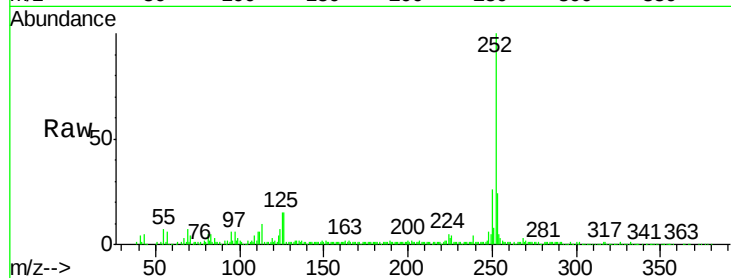
Tot Ion:252 Resp: 194992

Ion Ratio Lower Upper

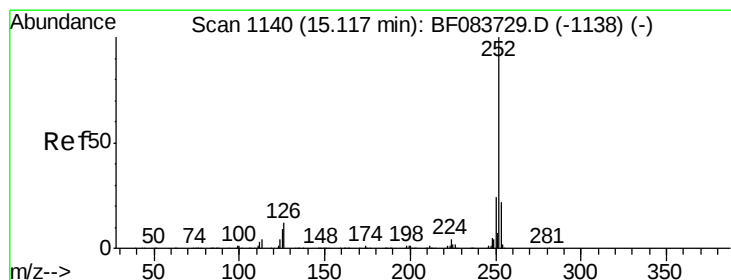
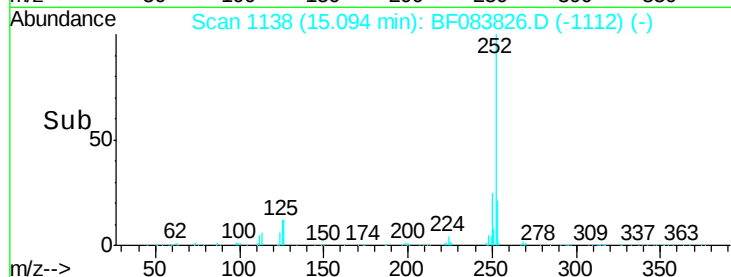
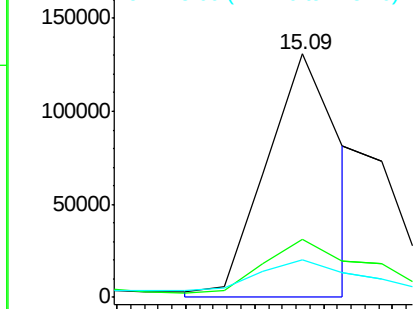
252 100

253 23.8 18.2 27.4

125 15.2 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: 8.41 ng m

RT: 15.11 min Scan# 1139

Delta R.T. -0.02 min

Lab File: BF083826.D

Acq: 15 Dec 2015 18:51

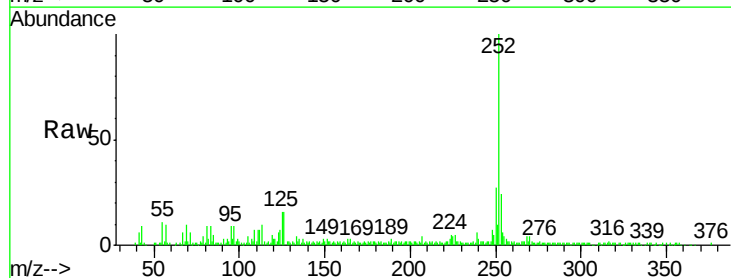
Tgt Ion:252 Resp: 67240

Ion Ratio Lower Upper

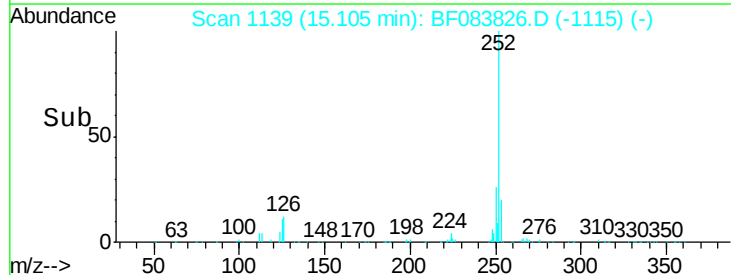
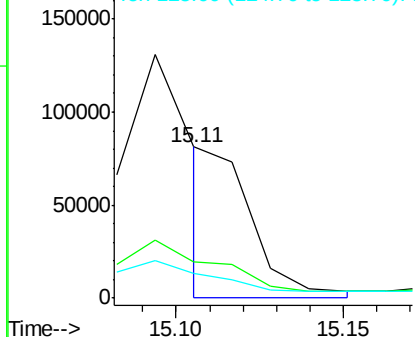
252 100

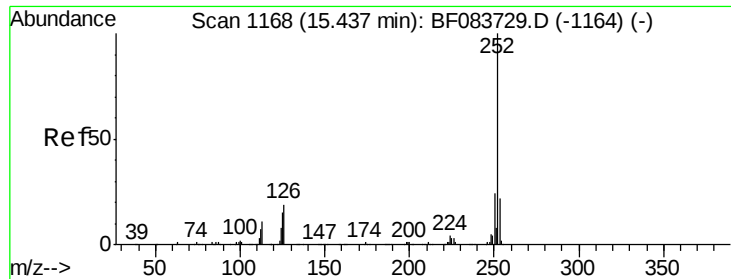
253 23.9 18.6 27.8

125 16.3 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

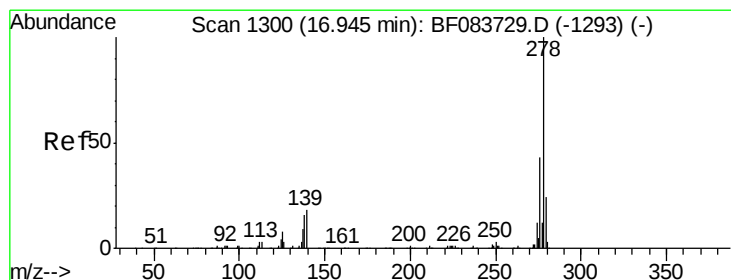
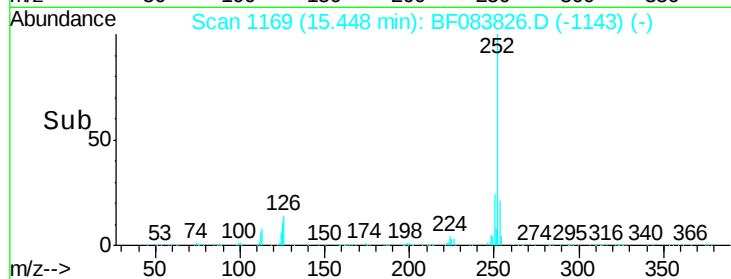
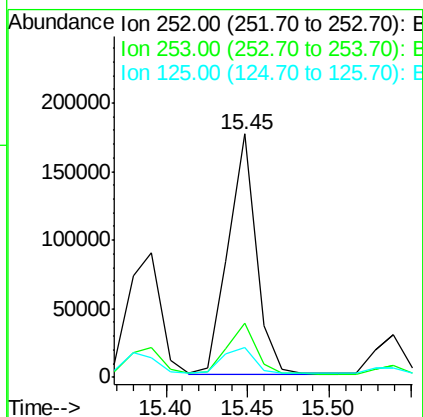
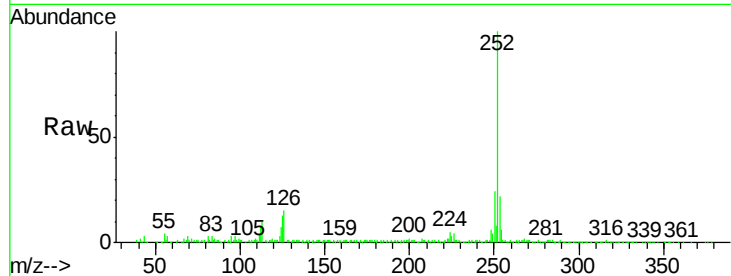




#89
Benzo(a)pyrene
Concen: 26.55 ng
RT: 15.45 min Scan# 1169
Delta R.T. 0.00 min
Lab File: BF083826.D
Acq: 15 Dec 2015 18:51

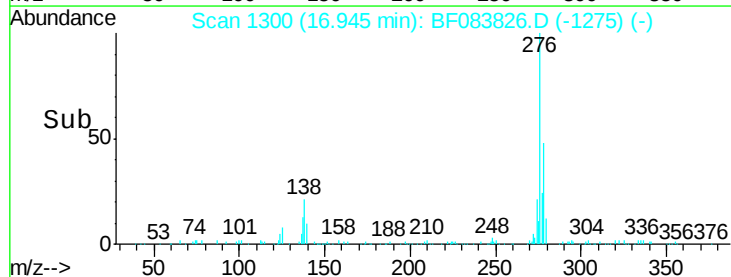
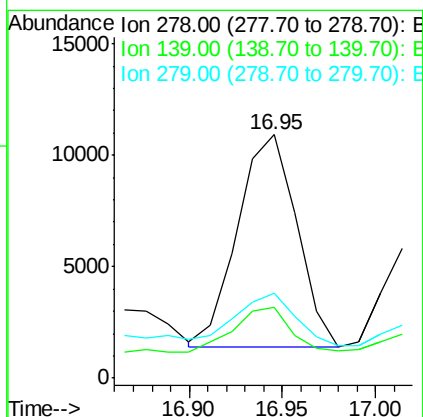
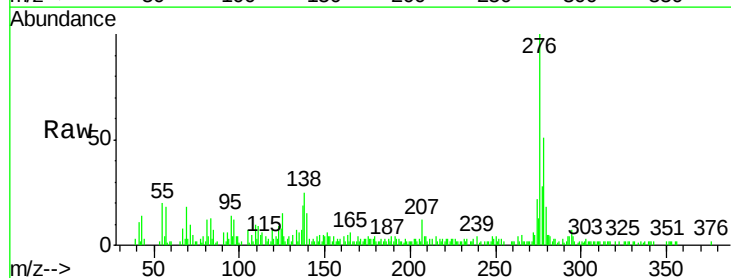
Instrument :
BNA_F
ClientSampled :
K201-27-28

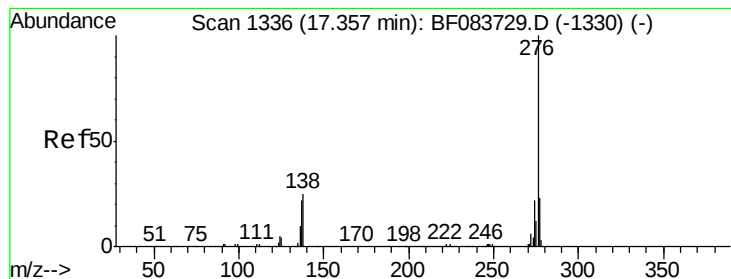
Tot Ion:252 Resp: 208937
Ion Ratio Lower Upper
252 100
253 22.5 17.5 26.3
125 12.5 11.0 16.6



#90
Dibenzo(a,h)anthracene
Concen: 2.70 ng
RT: 16.95 min Scan# 1300
Delta R.T. -0.01 min
Lab File: BF083826.D
Acq: 15 Dec 2015 18:51

Tgt Ion:278 Resp: 21120
Ion Ratio Lower Upper
278 100
139 29.1 12.8 19.2#
279 34.6 18.6 28.0#





#91
 Benzo(a,h,i)perylene
 Concen: 8.85 ng
 RT: 17.37 min Scan# 1337
 Delta R.T. -0.01 min
 Lab File: BF083826.D
 Acq: 15 Dec 2015 18:51

Instrument :
 BNA_F
 ClientSampleId :
 K201-27-28

Tot Ion	Ratio	Lower	Upper
276	100		
277	24.4	19.2	28.8
138	24.3	19.5	29.3

