

Data Path : V:\HPCHEM1\BNA F\DATA\BF121515\
 Data File : BF083838.D
 Acq On : 16 Dec 2015 2:46
 Operator : UM/IZ
 Sample : G4739-01DL 10X
 Misc :
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 K205-5-10DL

Quant Time: Dec 16 07:25:13 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

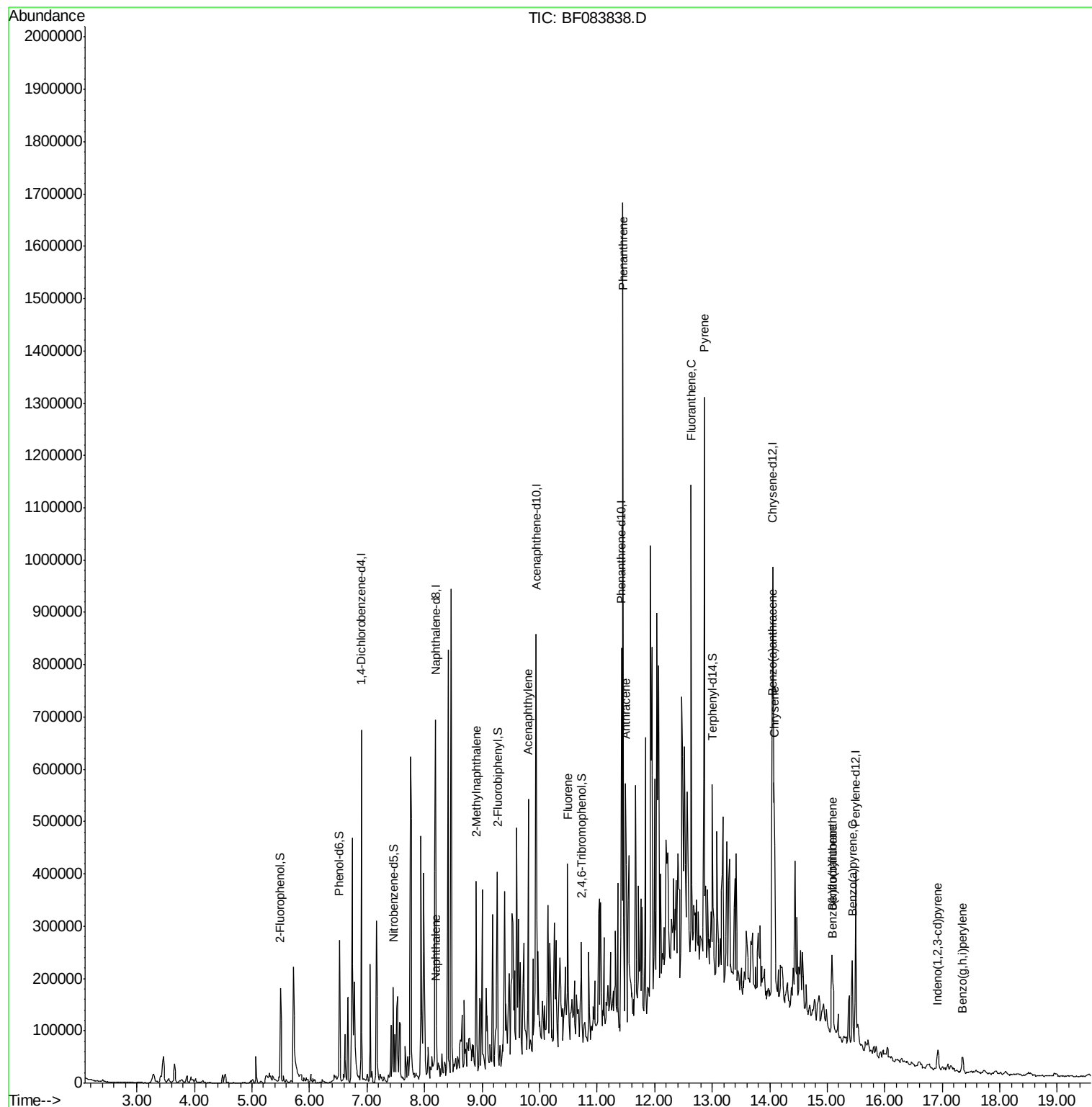
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.90	152	92635	20.00	ng	-0.02
21) Naphthalene-d8	8.19	136	363920	20.00	ng	-0.02
38) Acenaphthene-d10	9.94	164	162397	20.00	ng	-0.02
63) Phenanthrene-d10	11.42	188	266275	20.00	ng	-0.02
75) Chrysene-d12	14.05	240	204580	20.00	ng	-0.02
86) Perylene-d12	15.49	264	158072	20.00	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.49	112	64181	11.18	ng	-0.03
7) Phenol-d6	6.52	99	87429	12.02	ng	-0.02
23) Nitrobenzene-d5	7.46	82	49174	7.56	ng	-0.02
41) 2,4,6-Tribromophenol	10.73	330	15891	9.60	ng	-0.02
44) 2-Fluorobiphenyl	9.26	172	104424	8.16	ng	-0.02
78) Terphenyl-d14	13.00	244	80774	8.49	ng	-0.02
Target Compounds						Qvalue
31) Naphthalene	8.20	128	53290	2.81	ng	# 96
37) 2-Methylnaphthalene	8.90	142	49265m	4.14	ng	
48) Acenaphthylene	9.80	152	136358	7.63	ng	# 97
57) Fluorene	10.49	166	88757m	7.87	ng	
70) Phenanthrene	11.45	178	548099	38.75	ng	99
71) Anthracene	11.49	178	233800	15.91	ng	100
74) Fluoranthene	12.64	202	281773	19.28	ng	95
77) Pyrene	12.87	202	446173	27.59	ng	99
80) Benzo(a)anthracene	14.04	228	236699	20.35	ng	95
82) Chrysene	14.08	228	190676m	16.80	ng	
85) Indeno(1,2,3-cd)pyrene	16.92	276	23270	2.09	ng	# 100
87) Benzo(b)fluoranthene	15.08	252	80271m	7.96	ng	
88) Benzo(k)fluoranthene	15.09	252	31251m	3.42	ng	
89) Benzo(a)pyrene	15.44	252	73310	8.15	ng	99
91) Benzo(a,h,i)perylene	17.35	276	27209	2.96	ng	97

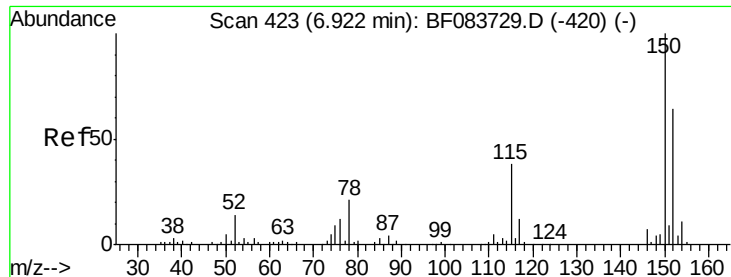
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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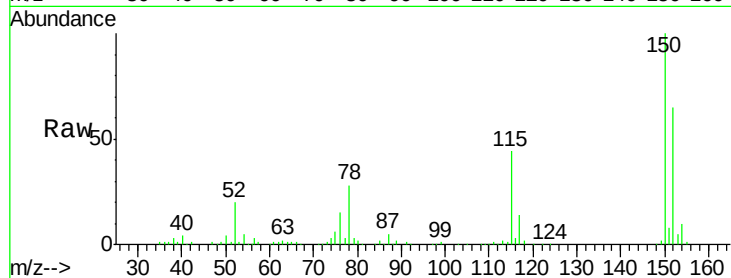


#1

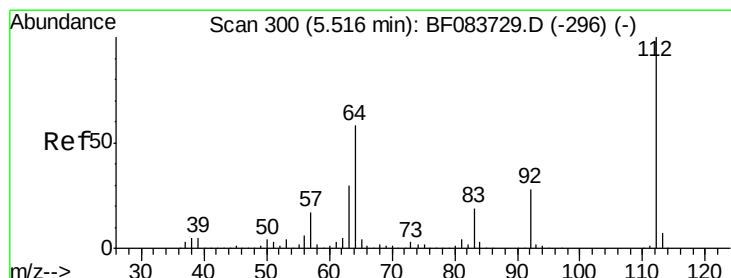
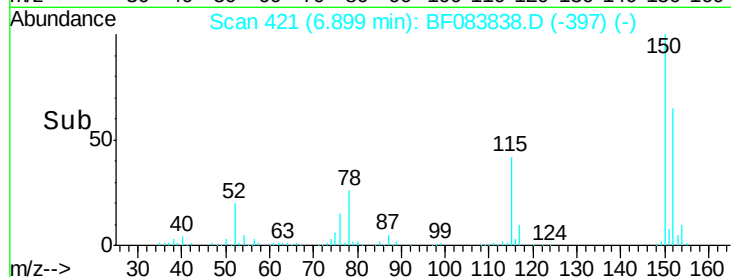
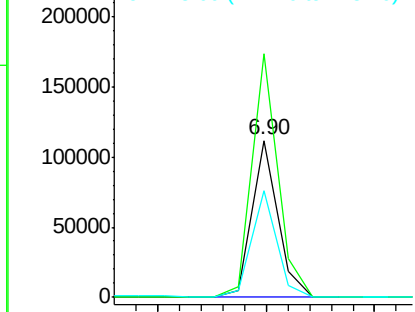
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.90 min Scan# 421
Delta R.T. -0.02 min
Lab File: BF083838.D
Acq: 16 Dec 2015 2:46

Instrument :
BNA_F
ClientSampleId :
K205-5-10DL

Tot Ion:152 Resp: 92635
Ion Ratio Lower Upper
152 100
150 155.0 126.5 189.7
115 67.5 52.3 78.5



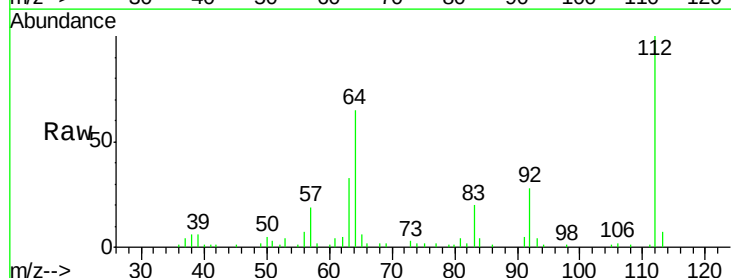
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



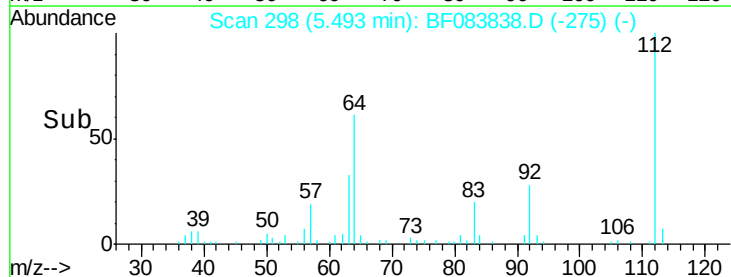
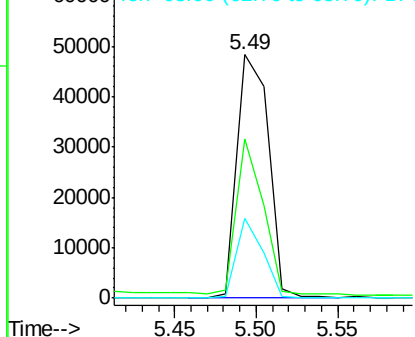
#5

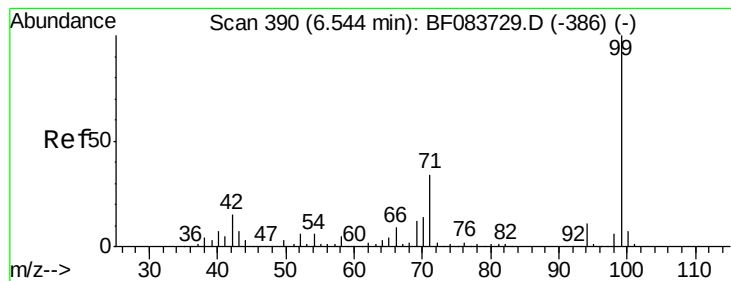
2-Fluorophenol
Concen: 11.18 ng
RT: 5.49 min Scan# 298
Delta R.T. -0.03 min
Lab File: BF083838.D
Acq: 16 Dec 2015 2:46

Tgt Ion:112 Resp: 64181
Ion Ratio Lower Upper
112 100
64 65.3 50.5 75.7
63 32.8 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: 12.02 ng

RT: 6.52 min Scan# 388

Delta R.T. -0.02 min

Lab File: BF083838.D

Acq: 16 Dec 2015 2:46

Instrument :

BNA_F

ClientSampleId :

K205-5-10DL

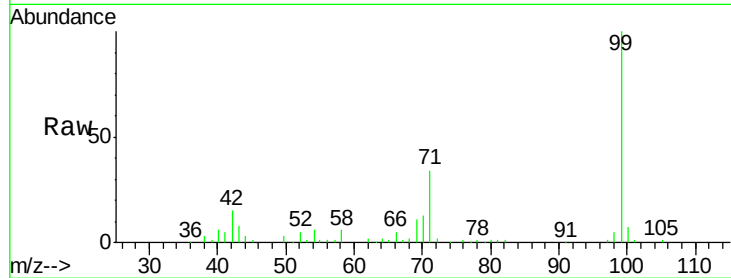
Tot Ion: 99 Resp: 87429

Ion Ratio Lower Upper

99 100

42 15.0 17.3 25.9#

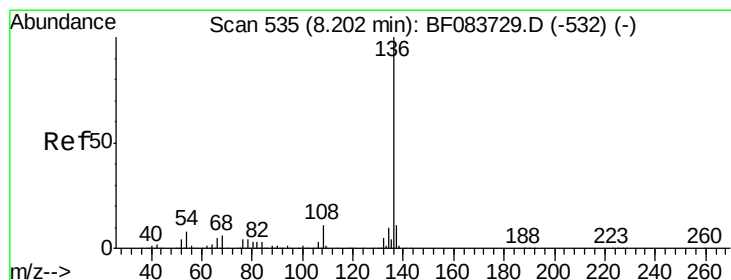
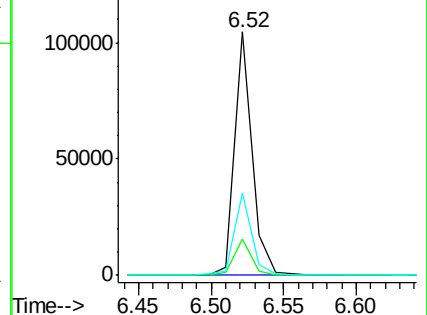
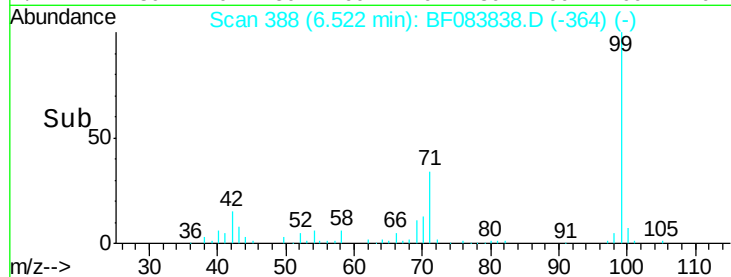
71 33.6 26.6 40.0



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: BF083838.D

Acq: 16 Dec 2015 2:46

Tgt Ion: 136 Resp: 363920

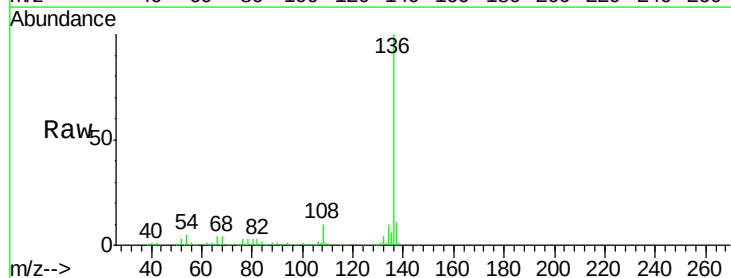
Ion Ratio Lower Upper

136 100

137 10.8 8.7 13.1

54 4.9 7.8 11.6#

68 4.4 5.7 8.5#

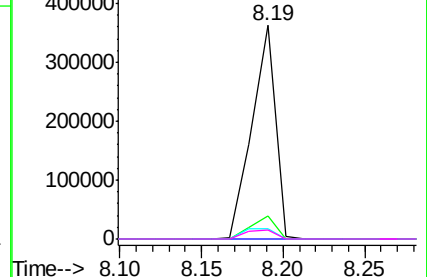
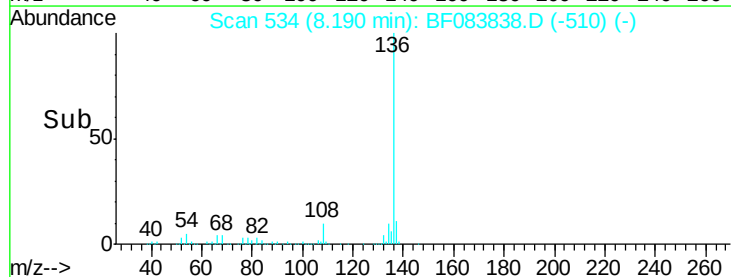


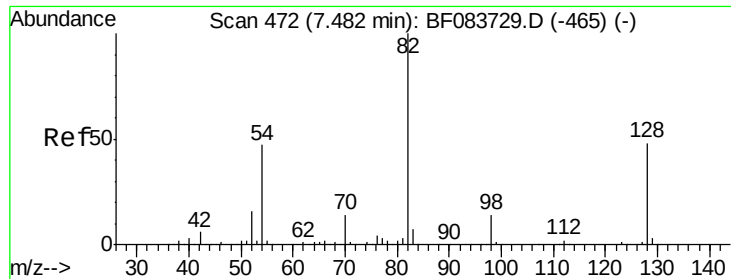
Abundance Ion 136.00 (135.70 to 136.70): E

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: 7.56 ng

RT: 7.46 min Scan# 470

Delta R.T. -0.02 min

Lab File: BF083838.D

Acq: 16 Dec 2015 2:46

Instrument :

BNA_F

ClientSampleId :

K205-5-10DL

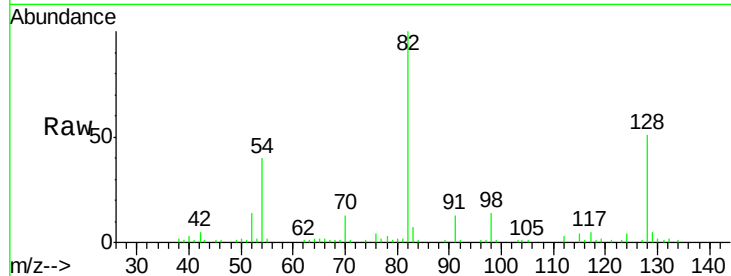
Tot Ion: 82 Resp: 49174

Ion Ratio Lower Upper

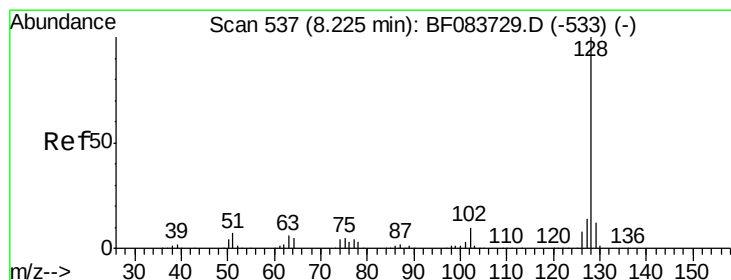
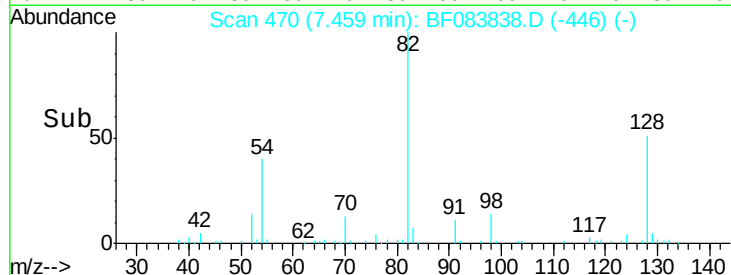
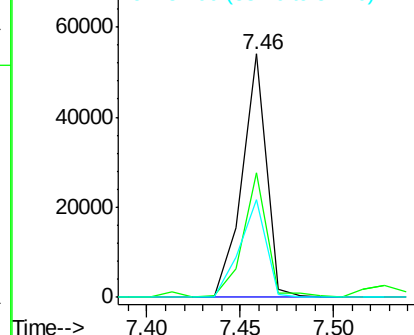
82 100

128 51.3 30.7 46.1#

54 40.2 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: 2.81 ng

RT: 8.20 min Scan# 535

Delta R.T. -0.03 min

Lab File: BF083838.D

Acq: 16 Dec 2015 2:46

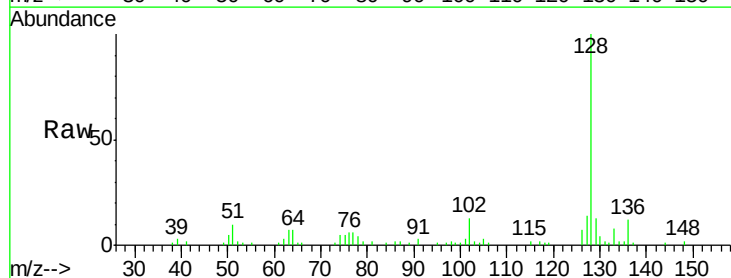
Tgt Ion: 128 Resp: 53290

Ion Ratio Lower Upper

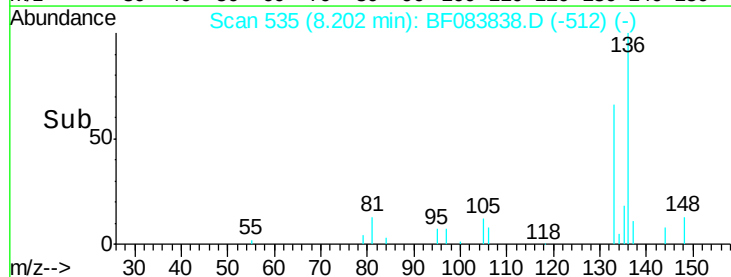
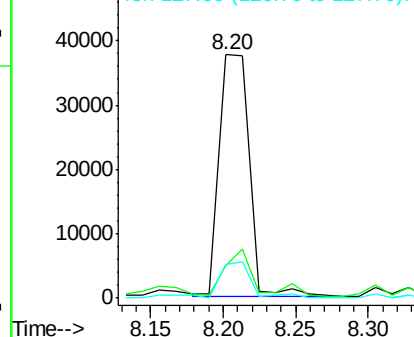
128 100

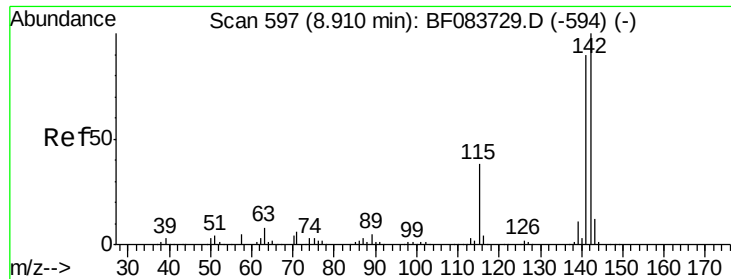
129 13.3 8.6 13.0#

127 13.8 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

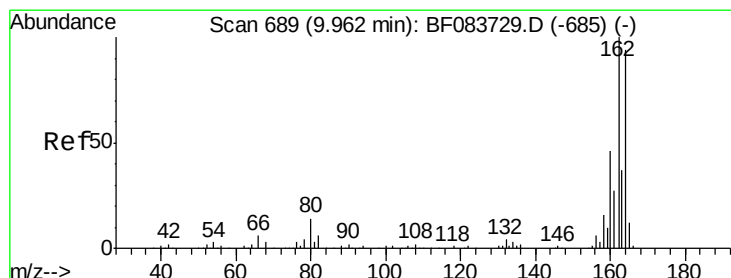
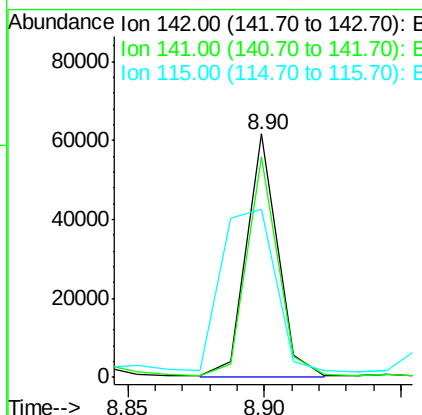
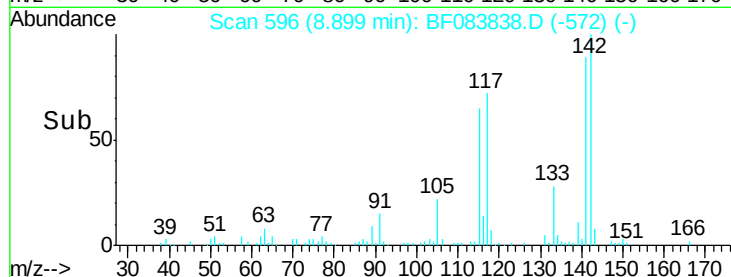
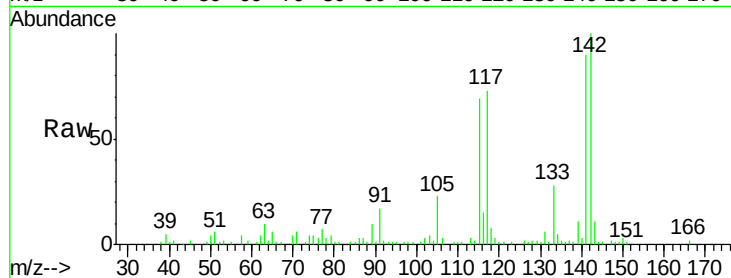




#37
2-Methylnaphthalene
Concen: 4.14 ng/mL
RT: 8.90 min Scan# 596
Delta R.T. -0.02 min
Lab File: BF083838.D
Acq: 16 Dec 2015 2:46

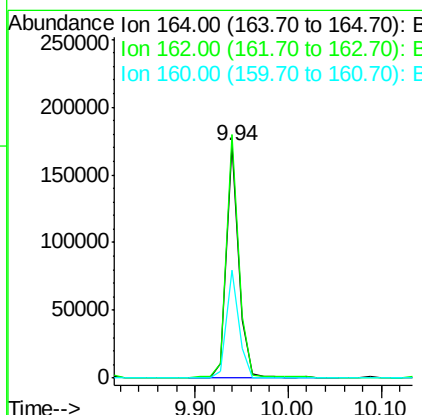
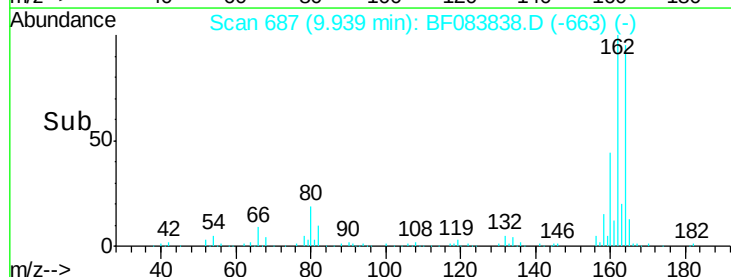
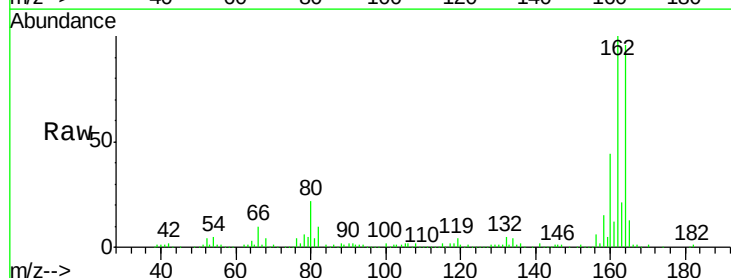
Instrument :
BNA_F
ClientSampleID :
K205-5-10DL

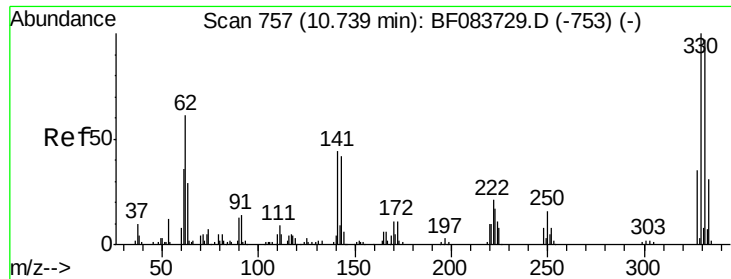
Tot Ion:142 Resp: 49265
Ion Ratio Lower Upper
142 100
141 90.5 70.3 105.5
115 69.2 29.2 43.8#



#38
Acenaphthene-d10
Concen: 20.00 ng/mL
RT: 9.94 min Scan# 687
Delta R.T. -0.02 min
Lab File: BF083838.D
Acq: 16 Dec 2015 2:46

Tgt Ion:164 Resp: 162397
Ion Ratio Lower Upper
164 100
162 104.6 78.8 118.2
160 46.4 33.4 50.2





#41

2,4,6-Tribromophenol

Concen: 9.60 ng

RT: 10.73 min Scan# 756

Delta R.T. -0.02 min

Lab File: BF083838.D

Acq: 16 Dec 2015 2:46

Instrument :

BNA_F

ClientSampleId :

K205-5-10DL

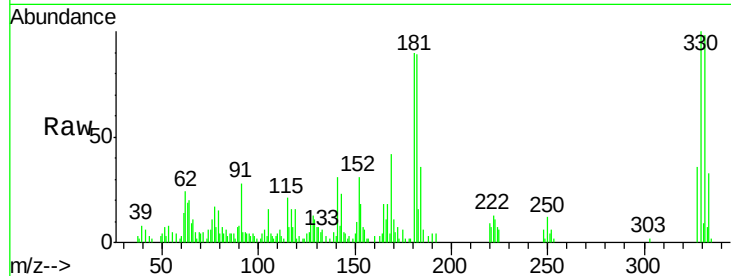
Tot Ion:330 Resp: 15891

Ion Ratio Lower Upper

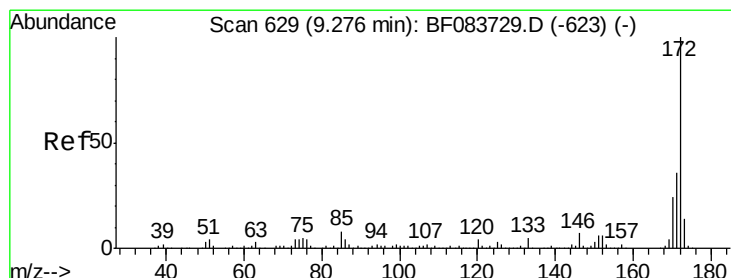
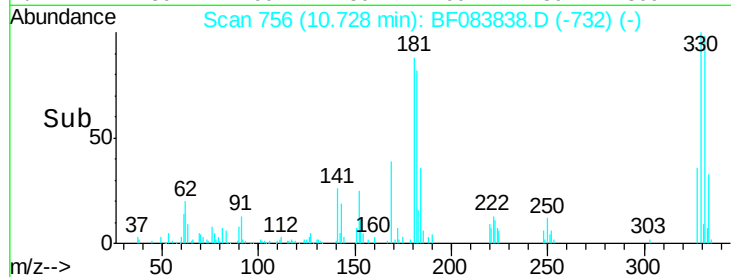
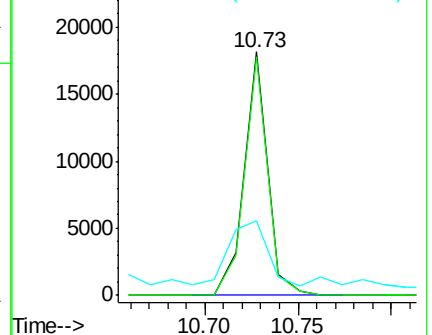
330 100

332 97.0 0.0 0.0#

141 44.2 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: 8.16 ng

RT: 9.26 min Scan# 628

Delta R.T. -0.02 min

Lab File: BF083838.D

Acq: 16 Dec 2015 2:46

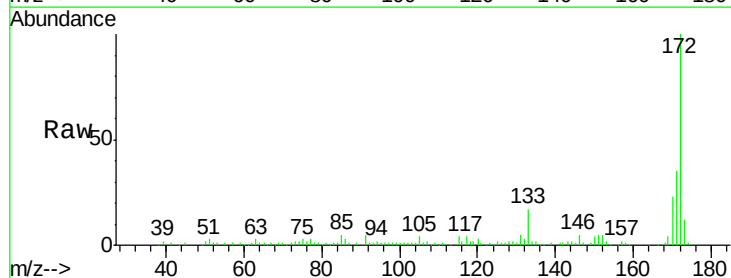
Tgt Ion:172 Resp: 104424

Ion Ratio Lower Upper

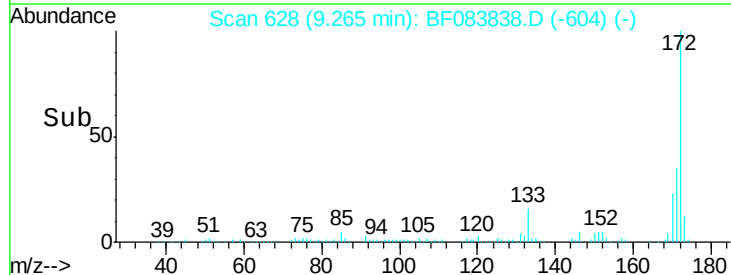
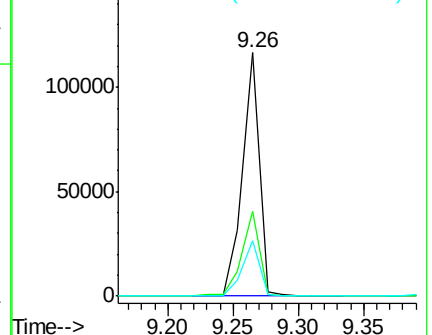
172 100

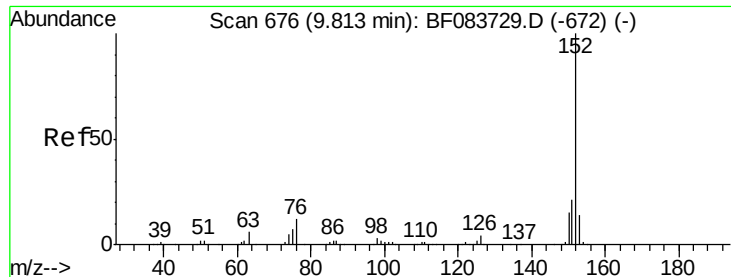
171 34.6 28.6 42.8

170 22.9 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: 7.63 ng

RT: 9.80 min Scan# 675

Delta R.T. -0.02 min

Lab File: BF083838.D

Acq: 16 Dec 2015 2:46

Instrument :

BNA_F

ClientSampleId :

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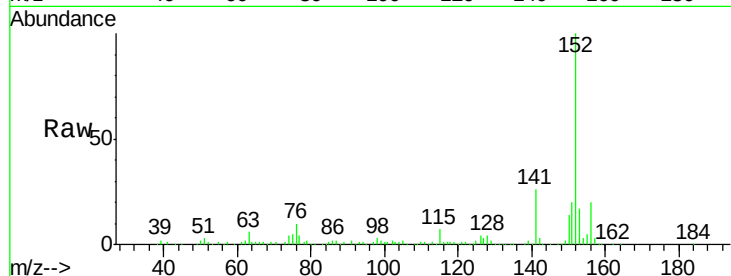
Tot Ion:152 Resp: 136358

Ion Ratio Lower Upper

152 100

151 20.4 16.3 24.5

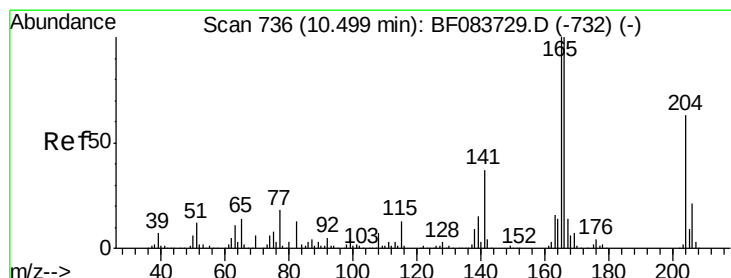
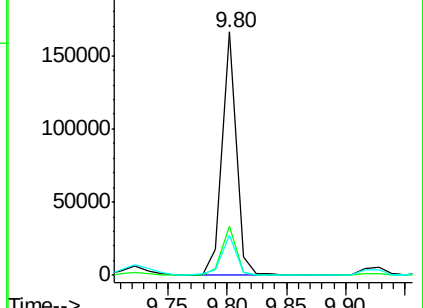
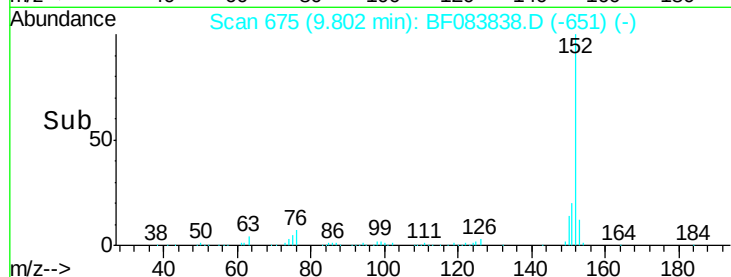
153 16.5 10.8 16.2#



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



#57

Fluorene

Concen: 7.87 ng m

RT: 10.49 min Scan# 735

Delta R.T. -0.02 min

Lab File: BF083838.D

Acq: 16 Dec 2015 2:46

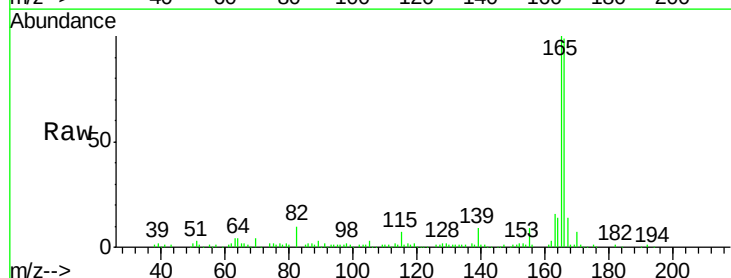
Tgt Ion:166 Resp: 88757

Ion Ratio Lower Upper

166 100

165 100.5 80.0 120.0

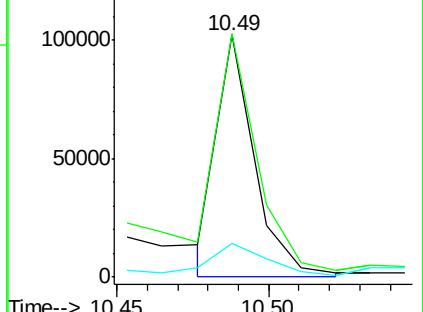
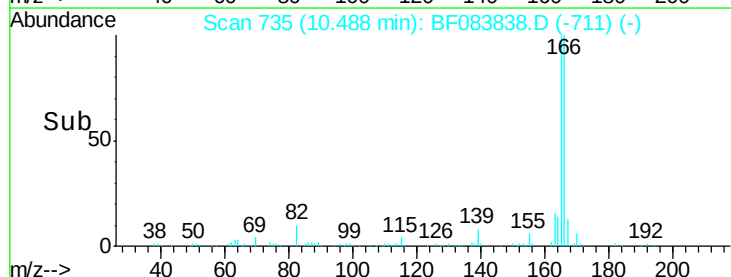
167 14.2 10.6 16.0

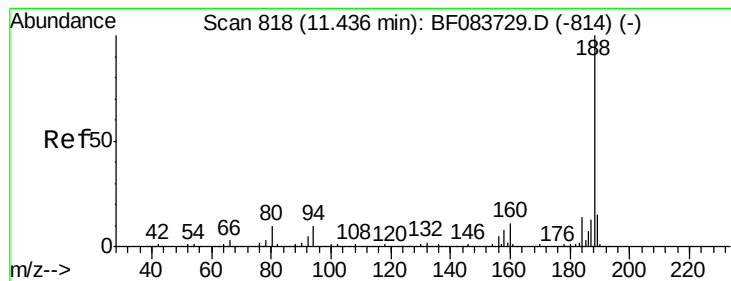


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E





#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 11.42 min Scan# 817

Delta R.T. -0.02 min

Lab File: BF083838.D

Acq: 16 Dec 2015 2:46

Instrument :

BNA_F

ClientSampleId :

K205-5-10DL

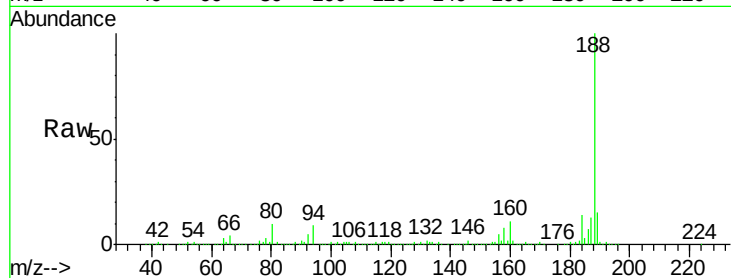
Tot Ion:188 Resp: 266275

Ion Ratio Lower Upper

188 100

94 9.2 9.4 14.2#

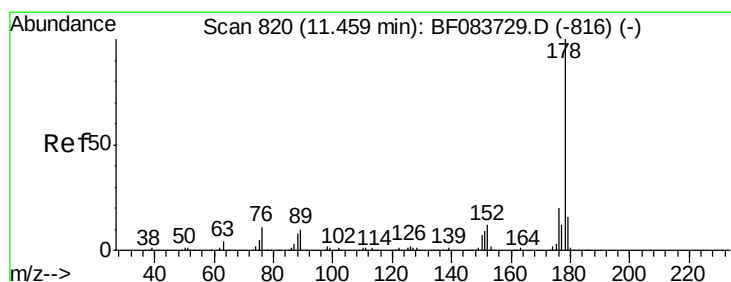
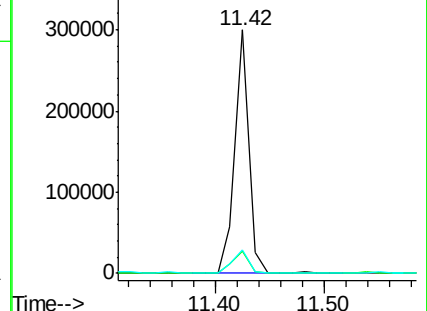
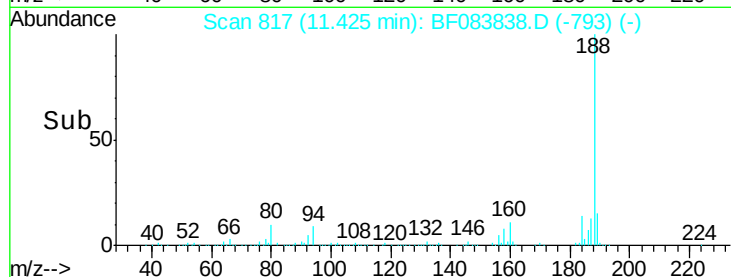
80 9.8 10.6 16.0#



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: 38.75 ng

RT: 11.45 min Scan# 819

Delta R.T. -0.02 min

Lab File: BF083838.D

Acq: 16 Dec 2015 2:46

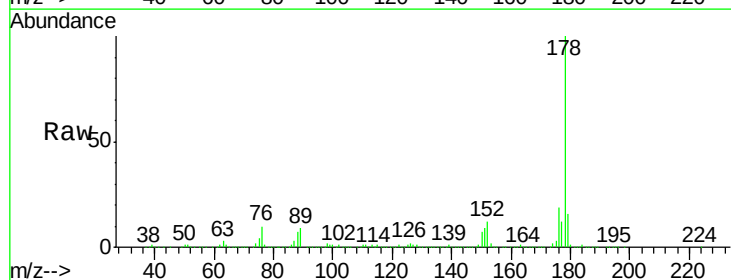
Tgt Ion:178 Resp: 548099

Ion Ratio Lower Upper

178 100

176 19.4 15.7 23.5

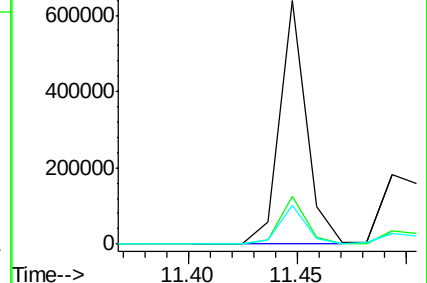
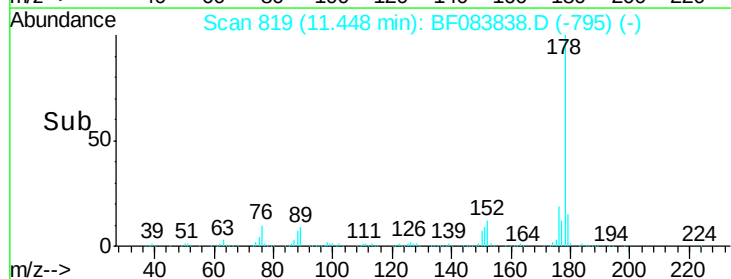
179 15.8 12.2 18.4

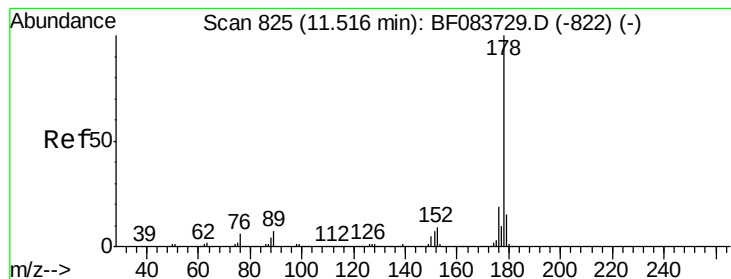


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#71

Anthracene

Concen: 15.91 ng

RT: 11.49 min Scan# 823

Delta R.T. -0.02 min

Lab File: BF083838.D

Acq: 16 Dec 2015 2:46

Instrument :

BNA_F

ClientSampleId :

K205-5-10DL

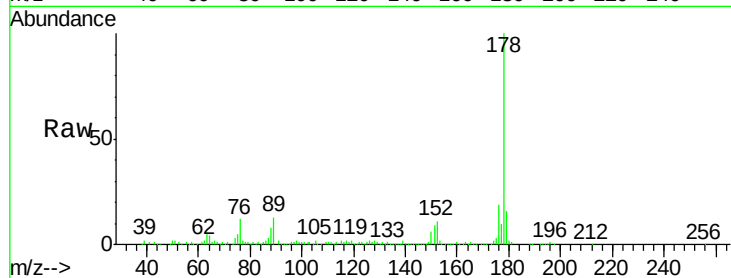
Tot Ion:178 Resp: 233800

Ion Ratio Lower Upper

178 100

176 18.9 15.2 22.8

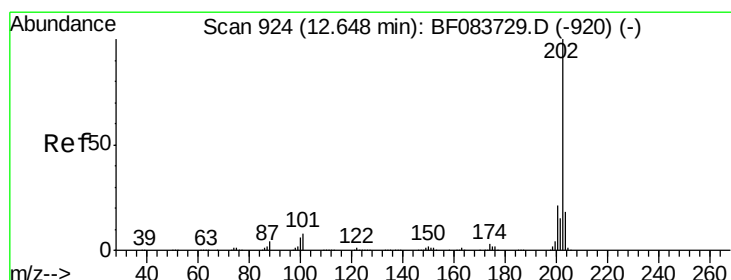
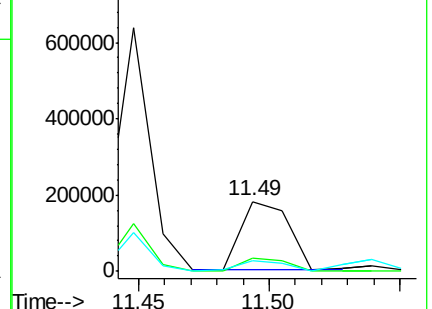
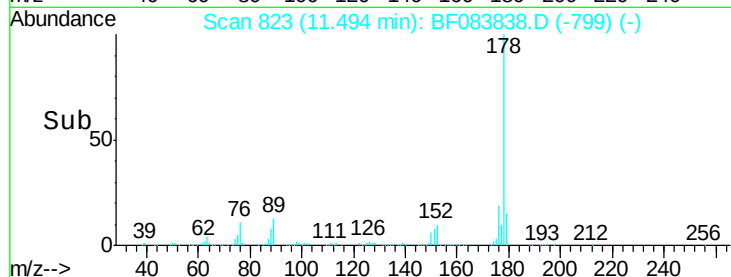
179 16.0 12.6 18.8



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



#74

Fluoranthene

Concen: 19.28 ng

RT: 12.64 min Scan# 923

Delta R.T. -0.01 min

Lab File: BF083838.D

Acq: 16 Dec 2015 2:46

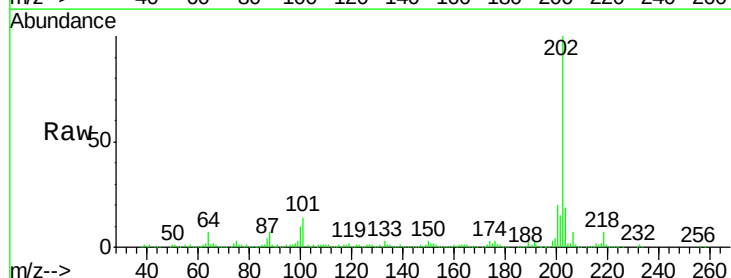
Tgt Ion:202 Resp: 281773

Ion Ratio Lower Upper

202 100

101 14.4 0.0 31.5

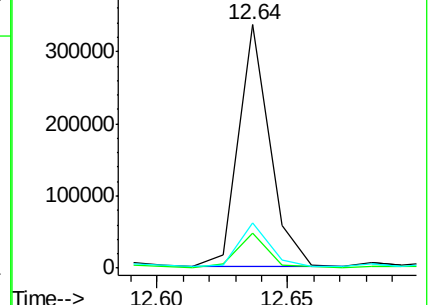
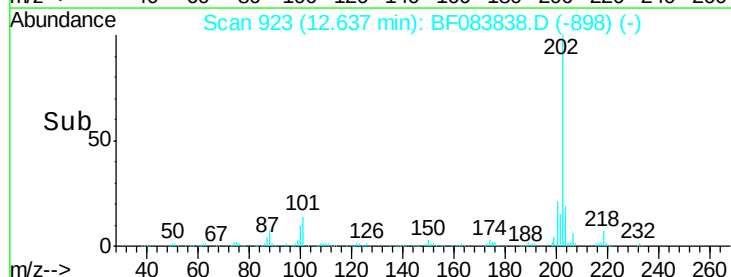
203 18.8 0.0 37.6

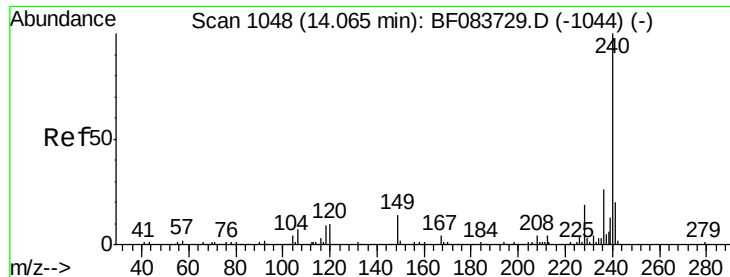


Abundance Ion 202.00 (201.70 to 202.70): E

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: BF083838.D

Acq: 16 Dec 2015 2:46

Instrument :

BNA_F

ClientSampleId :

K205-5-10DL

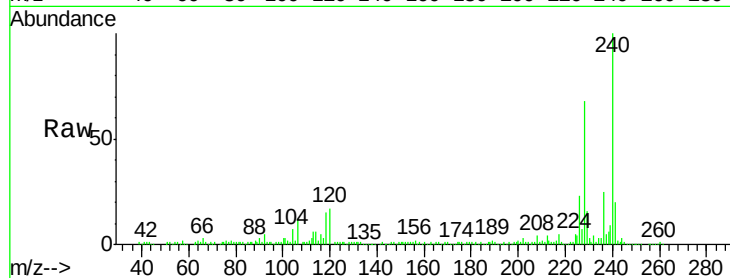
Tot Ion:240 Resp: 204580

Ion Ratio Lower Upper

240 100

120 16.6 8.1 12.1#

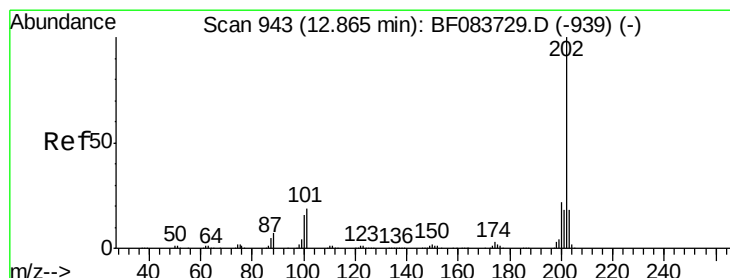
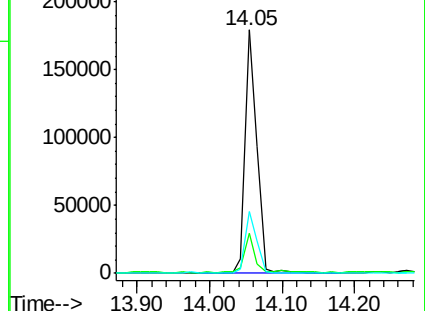
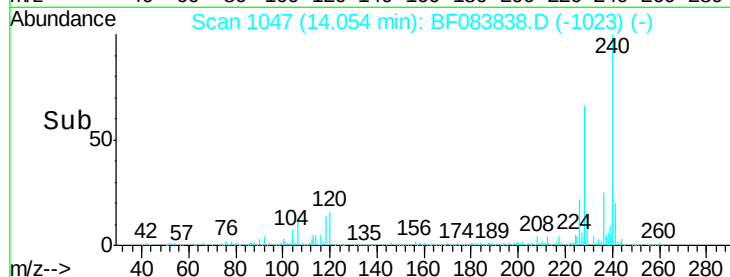
236 25.4 20.8 31.2



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: 27.59 ng

RT: 12.87 min Scan# 943

Delta R.T. -0.01 min

Lab File: BF083838.D

Acq: 16 Dec 2015 2:46

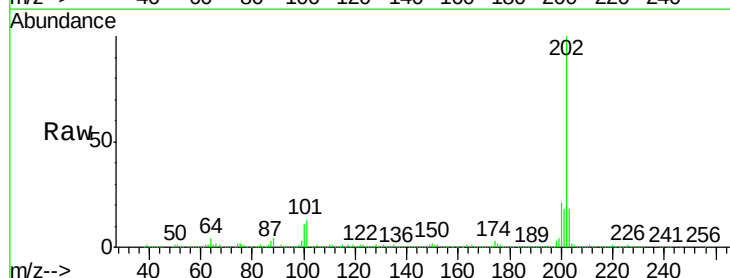
Tgt Ion:202 Resp: 446173

Ion Ratio Lower Upper

202 100

200 21.3 16.7 25.1

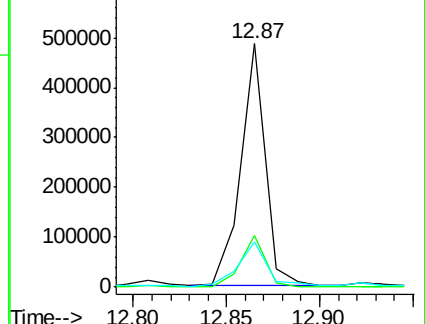
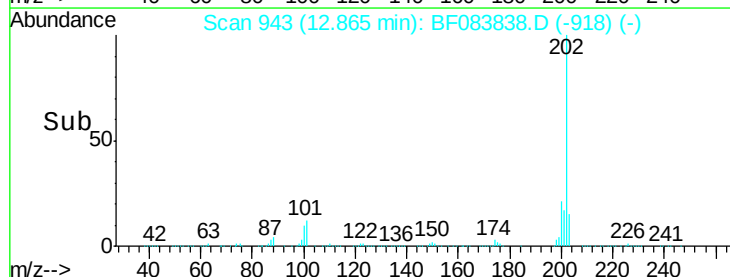
203 18.4 14.3 21.5

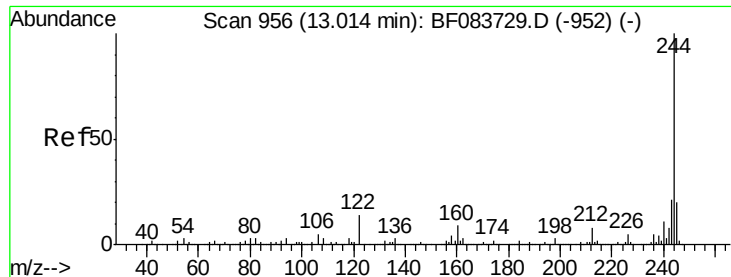


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 8.49 ng

RT: 13.00 min Scan# 955

Delta R.T. -0.02 min

Lab File: BF083838.D

Acq: 16 Dec 2015 2:46

Instrument :

BNA_F

ClientSampleId :

K205-5-10DL

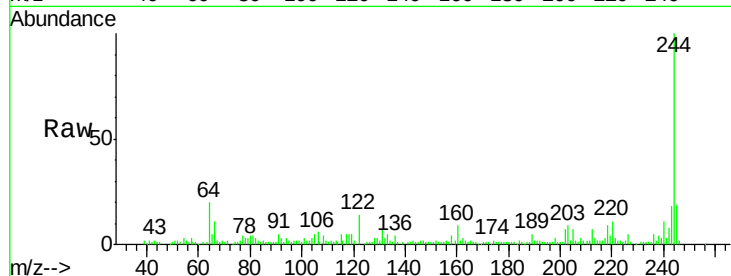
Tot Ion:244 Resp: 80774

Ion Ratio Lower Upper

244 100

212 7.2 6.1 9.1

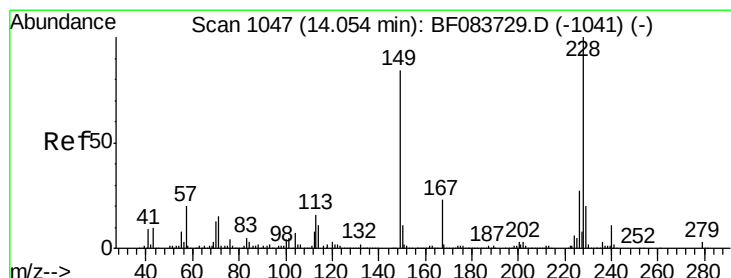
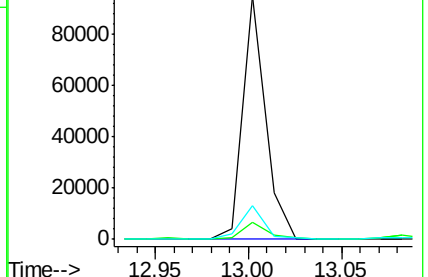
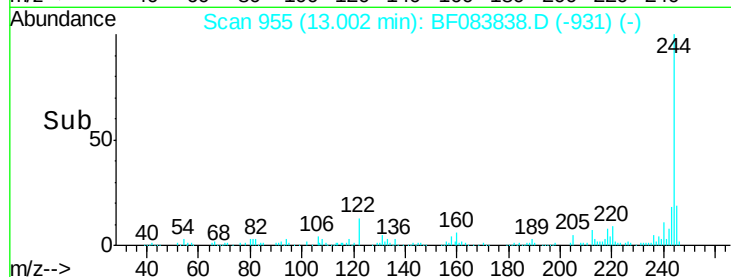
122 14.0 11.0 16.6



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: 20.35 ng

RT: 14.04 min Scan# 1046

Delta R.T. -0.02 min

Lab File: BF083838.D

Acq: 16 Dec 2015 2:46

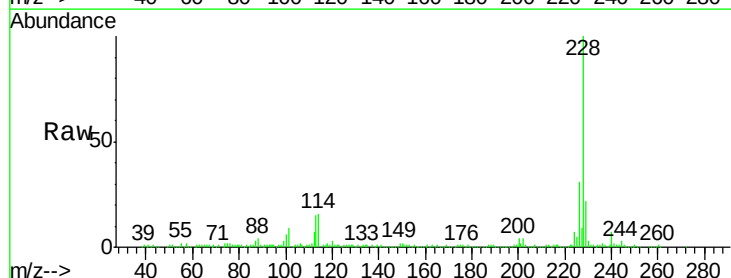
Tgt Ion:228 Resp: 236699

Ion Ratio Lower Upper

228 100

226 30.6 22.3 33.5

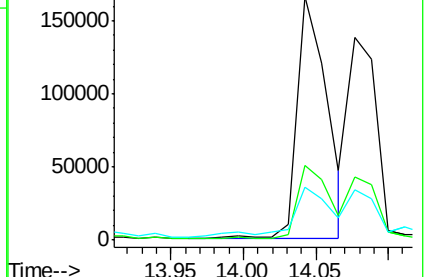
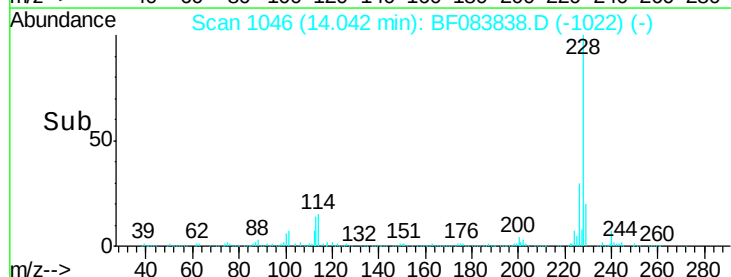
229 22.0 15.7 23.5

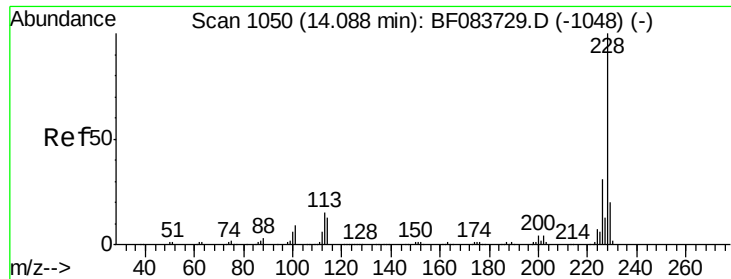


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#82

Chrysene

Concen: 16.80 ng/mL

RT: 14.08 min Scan# 1049

Delta R.T. -0.02 min

Lab File: BF083838.D

Acq: 16 Dec 2015 2:46

Instrument :

BNA_F

ClientSampleId :

K205-5-10DL

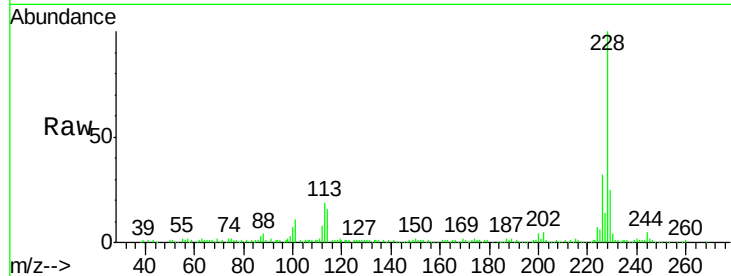
Tot Ion:228 Resp: 190676

Ion Ratio Lower Upper

228 100

226 31.5 24.7 37.1

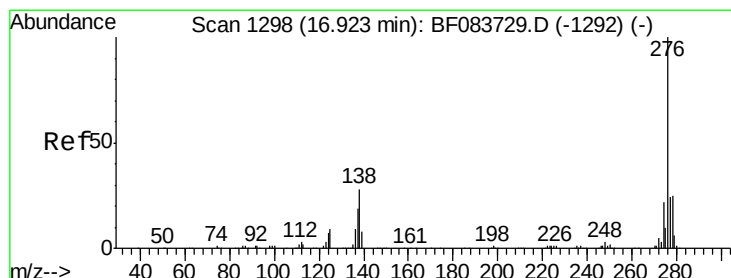
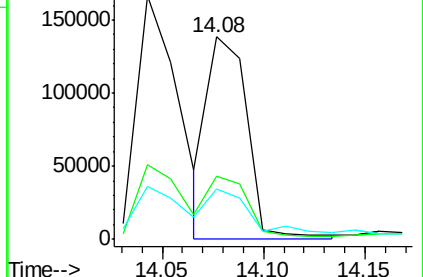
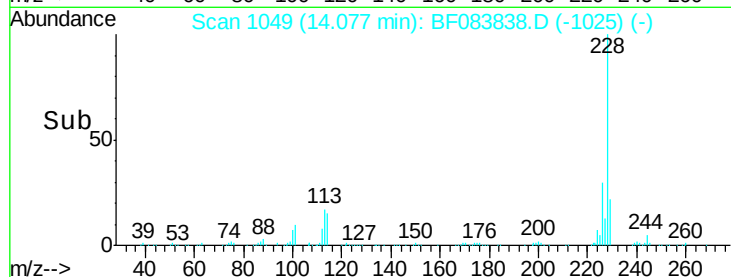
229 24.8 16.3 24.5#



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: 2.09 ng/mL

RT: 16.92 min Scan# 1298

Delta R.T. -0.02 min

Lab File: BF083838.D

Acq: 16 Dec 2015 2:46

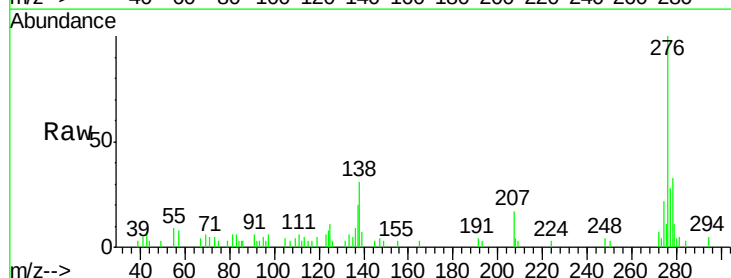
Tgt Ion:276 Resp: 23270

Ion Ratio Lower Upper

276 100

138 36.2 0.0 0.0#

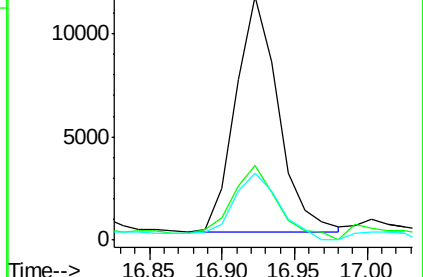
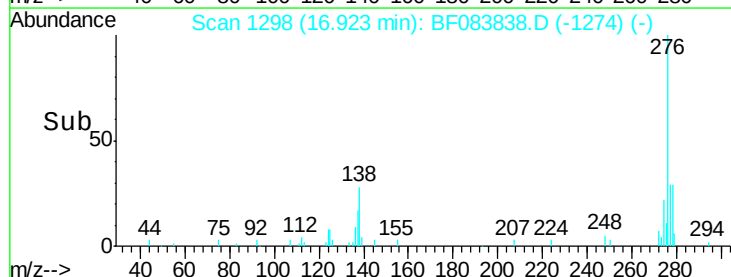
277 32.6 0.0 0.0#

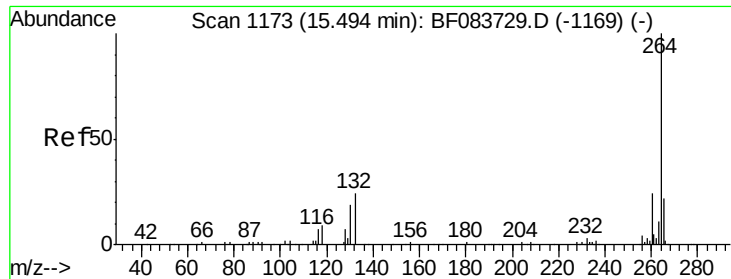


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

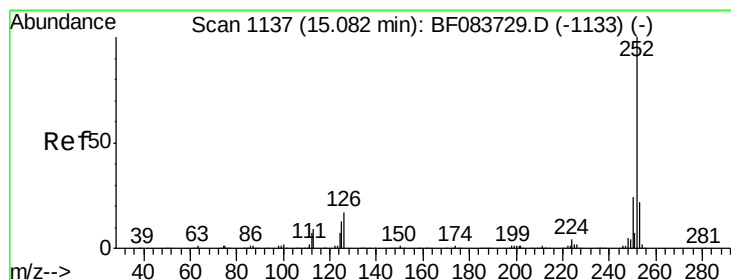
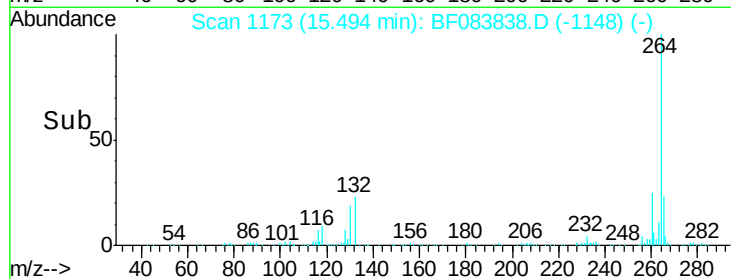
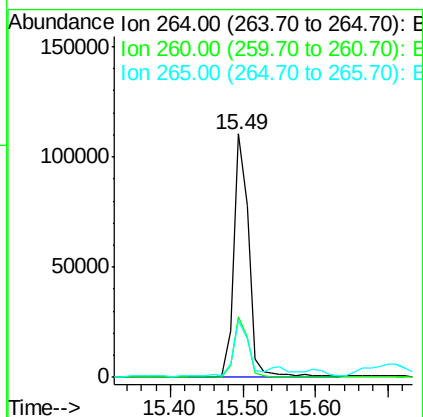
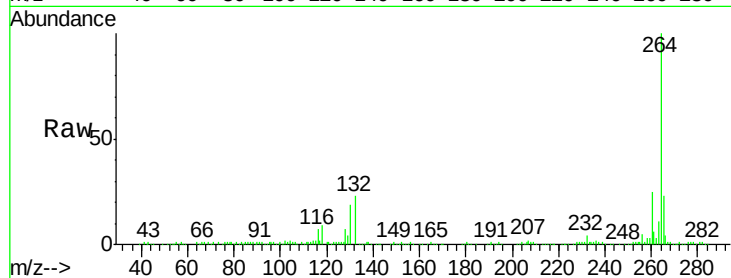




#86
Pervlene-d12
Concen: 20.00 ng
RT: 15.49 min Scan# 1173
Delta R.T. -0.01 min
Lab File: BF083838.D
Acq: 16 Dec 2015 2:46

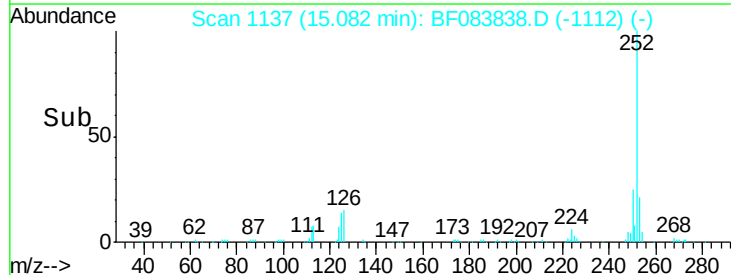
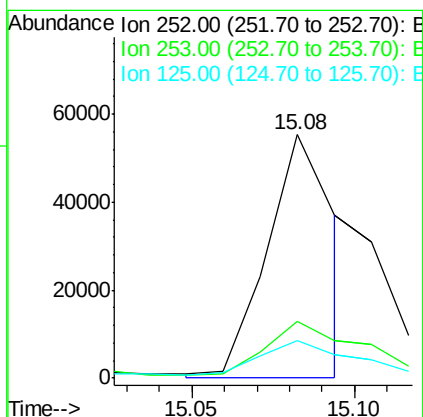
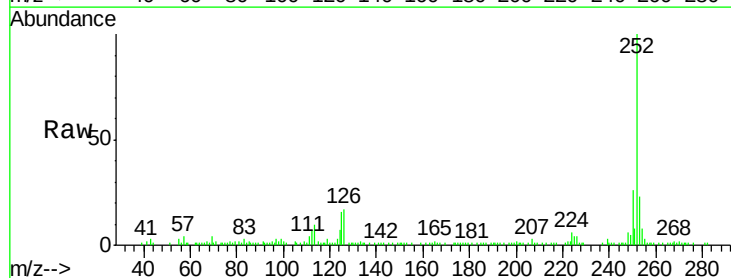
Instrument :
BNA_F
ClientSampleId :
K205-5-10DL

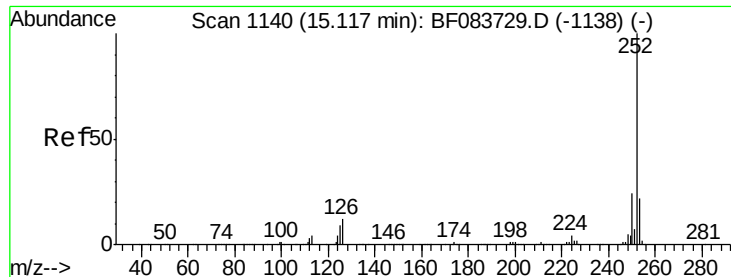
Tot Ion:264 Resp: 158072
Ion Ratio Lower Upper
264 100
260 25.0 19.4 29.0
265 23.3 17.8 26.6



#87
Benzo(b)fluoranthene
Concen: 7.96 ng m
RT: 15.08 min Scan# 1137
Delta R.T. -0.01 min
Lab File: BF083838.D
Acq: 16 Dec 2015 2:46

Tgt Ion:252 Resp: 80271
Ion Ratio Lower Upper
252 100
253 23.2 18.2 27.4
125 15.6 8.2 12.4#





#88

Benzo(k)fluoranthene

Concen: 3.42 ng m

RT: 15.09 min Scan# 1138

Delta R.T. -0.03 min

Lab File: BF083838.D

Acq: 16 Dec 2015 2:46

Instrument :

BNA_F

ClientSampleId :

K205-5-10DL

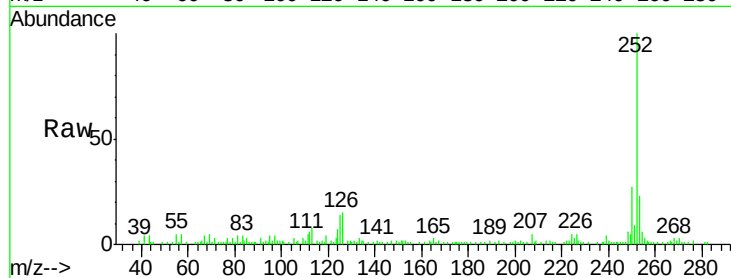
Tot Ion:252 Resp: 31251

Ion Ratio Lower Upper

252 100

253 23.0 18.6 27.8

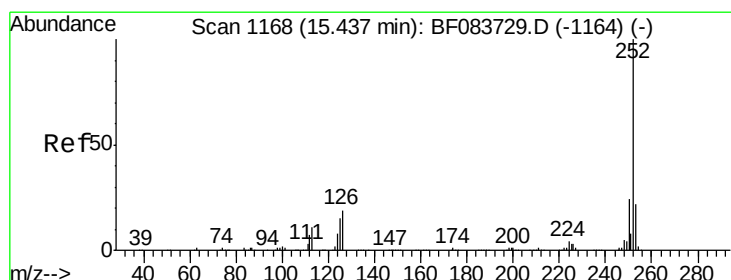
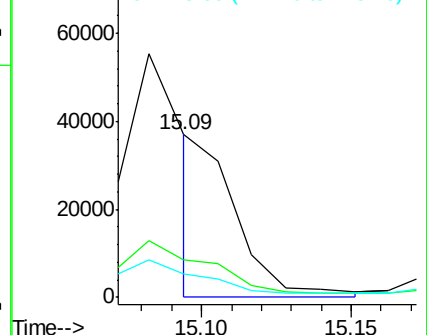
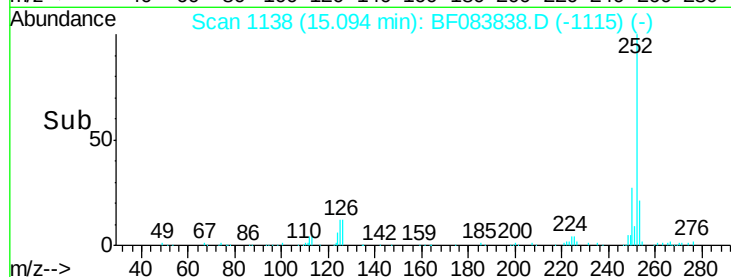
125 14.3 11.5 17.3



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: 8.15 ng

RT: 15.44 min Scan# 1168

Delta R.T. -0.01 min

Lab File: BF083838.D

Acq: 16 Dec 2015 2:46

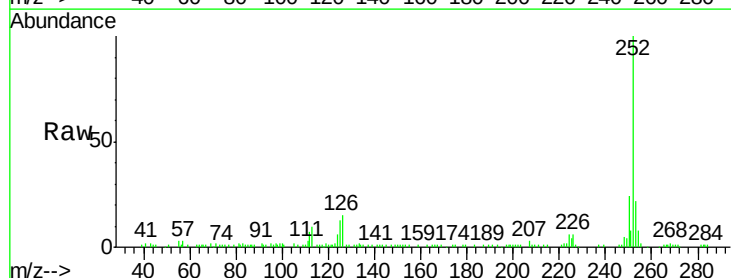
Tgt Ion:252 Resp: 73310

Ion Ratio Lower Upper

252 100

253 21.9 17.5 26.3

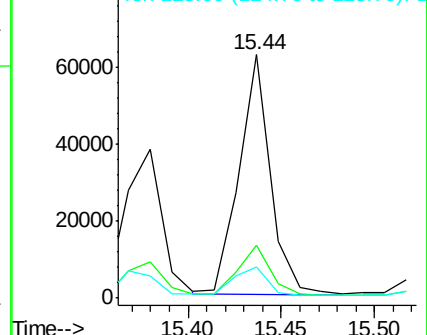
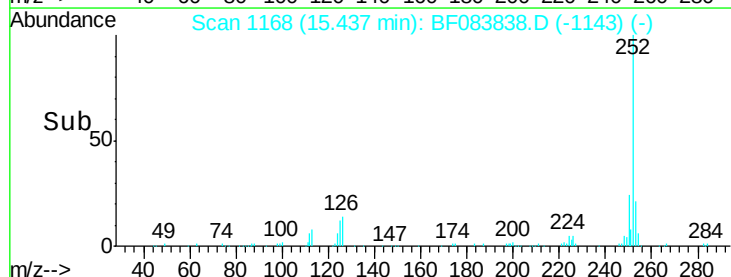
125 13.0 11.0 16.6

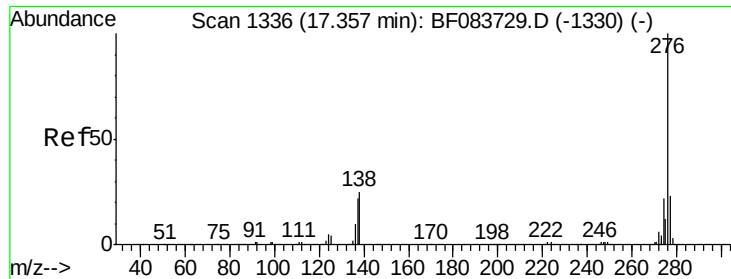


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#91

Benzo(a,h,i)perylene

Concen: 2.96 ng

RT: 17.35 min Scan# 1335

Delta R.T. -0.03 min

Lab File: BF083838.D

Acq: 16 Dec 2015 2:46

Instrument :

BNA_F

ClientSampleId :

K205-5-10DL

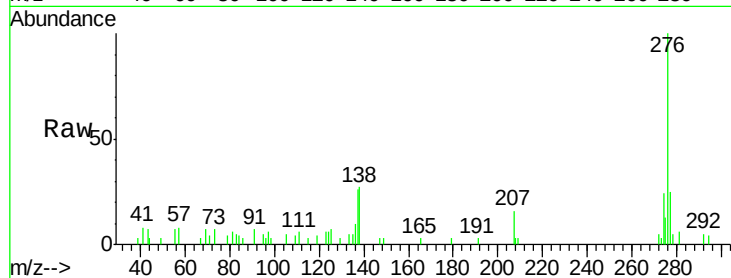
Tot Ion: 276 Resp: 27209

Ion Ratio Lower Upper

276 100

277 24.9 19.2 28.8

138 26.9 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

