

Data Path : Z:\HPCHEM1\BNA F\DATA\BF121816\
 Data File : BF091767.D
 Acq On : 19 Dec 2016 6:14
 Operator : UM/SJ
 Sample : H6006-22DL 5X
 Misc :
 ALS Vial : 54 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 WC-2-0-5DL

Quant Time: Dec 19 17:07:32 2016
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF121716.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Sat Dec 17 22:53:54 2016
 Response via : Initial Calibration

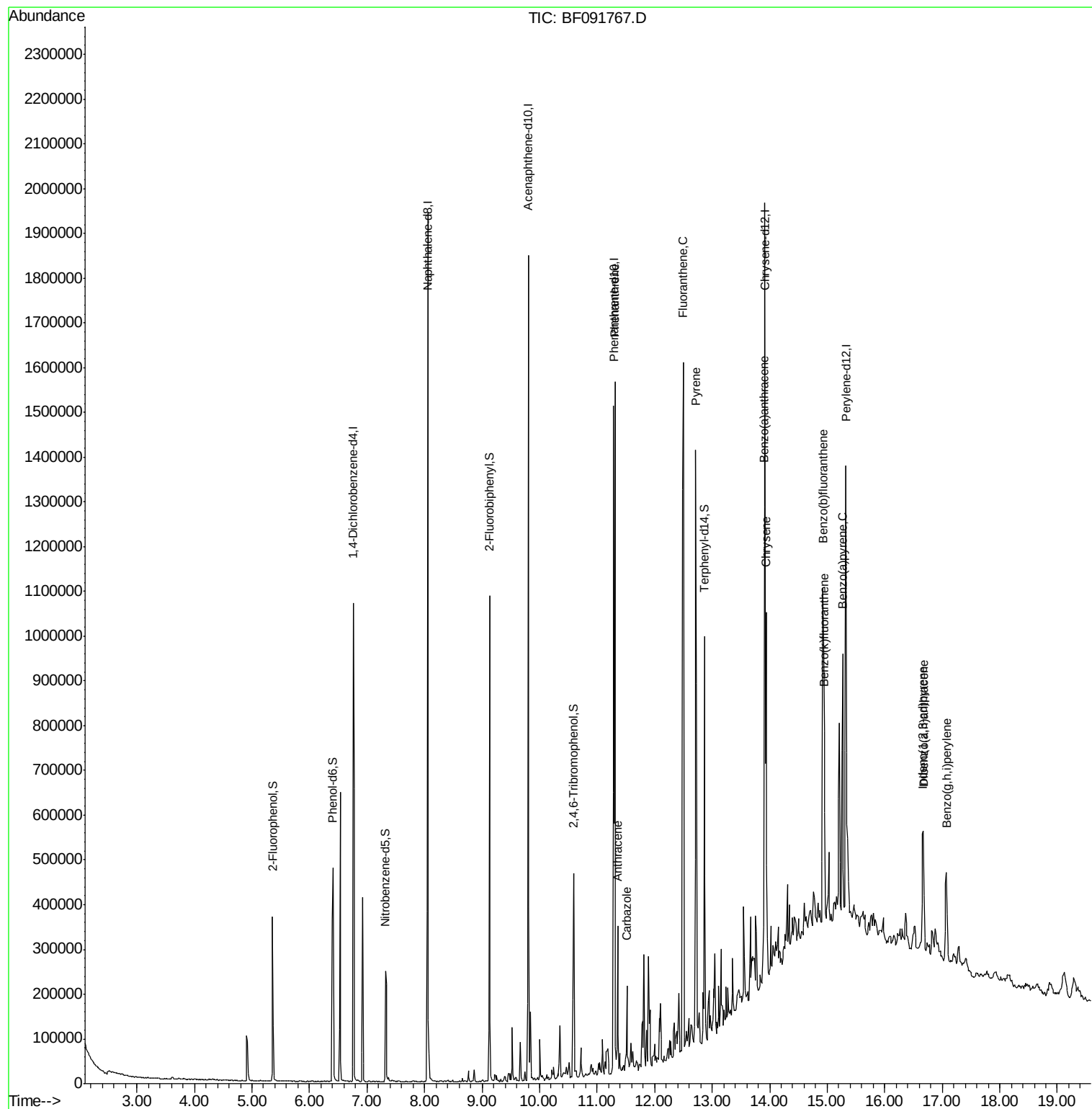
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.76	152	204280m	20.00	ng	-0.01
21) Naphthalene-d8	8.05	136	856407	20.00	ng	-0.01
38) Acenaphthene-d10	9.80	164	395633	20.00	ng	-0.01
63) Phenanthrene-d10	11.29	188	609630	20.00	ng	0.00
75) Chrysene-d12	13.92	240	449483	20.00	ng	-0.01
86) Perylene-d12	15.32	264	463488	20.00	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.36	112	111132	9.11	ng	-0.01
7) Phenol-d6	6.41	99	226983	15.26	ng	-0.01
23) Nitrobenzene-d5	7.32	82	123969	8.35	ng	-0.02
41) 2,4,6-Tribromophenol	10.59	330	56122	16.73	ng	-0.01
44) 2-Fluorobiphenyl	9.13	172	330620	16.79	ng	-0.01
78) Terphenyl-d14	12.87	244	278576	15.65	ng	-0.01
Target Compounds						Qvalue
70) Phenanthrene	11.31	178	620554	20.37	ng	97
71) Anthracene	11.36	178	136129	4.22	ng	98
72) Carbazole	11.52	167	72780	2.58	ng	98
74) Fluoranthene	12.50	202	875051	27.50	ng	91
77) Pyrene	12.72	202	679520	20.93	ng	98
80) Benzo(a)anthracene	13.91	228	398288	15.49	ng	98
82) Chrysene	13.94	228	290335	10.89	ng	97
85) Indeno(1,2,3-cd)pyrene	16.66	276	205608	7.85	ng	96
87) Benzo(b)fluoranthene	14.92	252	502772m	17.11	ng	
88) Benzo(k)fluoranthene	14.95	252	94376m	4.58	ng	
89) Benzo(a)pyrene	15.27	252	298182	11.82	ng	97
90) Dibenzo(a,h)anthracene	16.67	278	51586	2.35	ng	# 88
91) Benzo(a,h,i)perylene	17.07	276	174444	7.81	ng	98

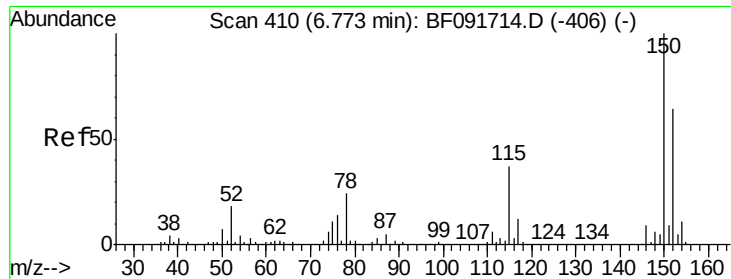
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng/mL

RT: 6.76 min Scan# 409

Delta R.T. -0.01 min

Lab File: BF091767.D

Acq: 19 Dec 2016 6:14

Instrument :

BNA_F

ClientSampleId :

WC-2-0-5DL

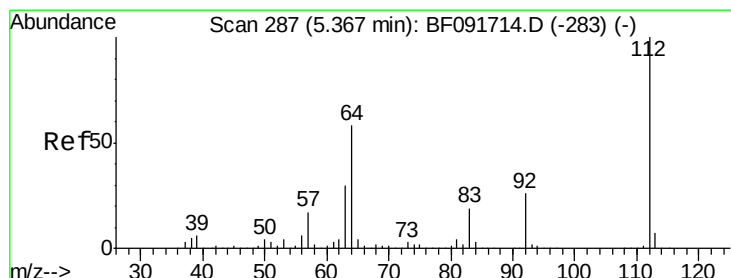
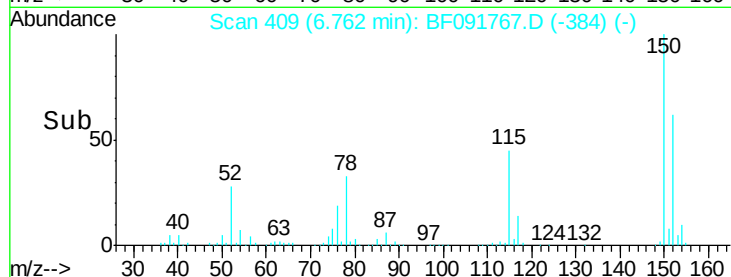
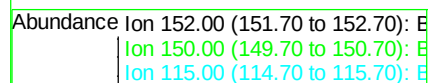
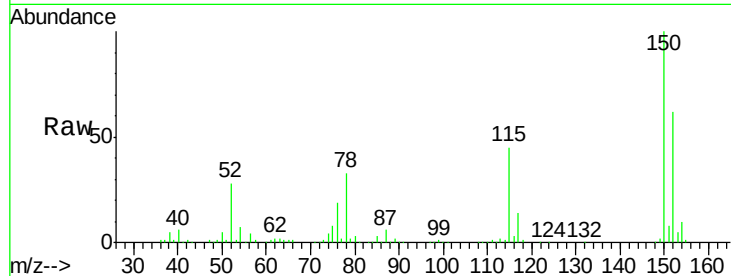
Tot Ion:152 Resp: 204280

Ion Ratio Lower Upper

152 100

150 162.3 124.9 187.3

115 72.4 46.0 69.0#



#5

2-Fluorophenol

Concen: 9.11 ng

RT: 5.36 min Scan# 286

Delta R.T. -0.01 min

Lab File: BF091767.D

Acq: 19 Dec 2016 6:14

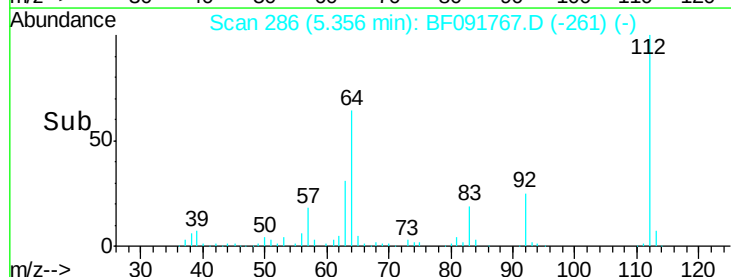
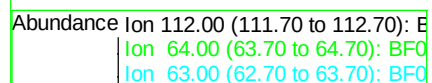
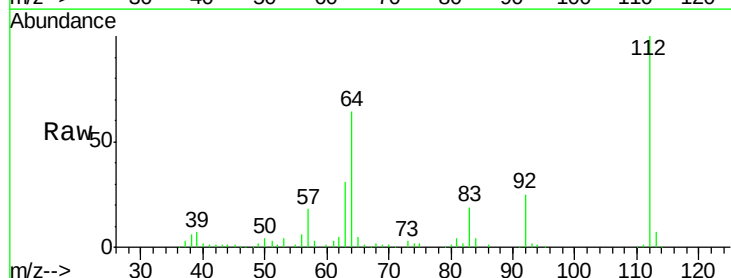
Tgt Ion:112 Resp: 111132

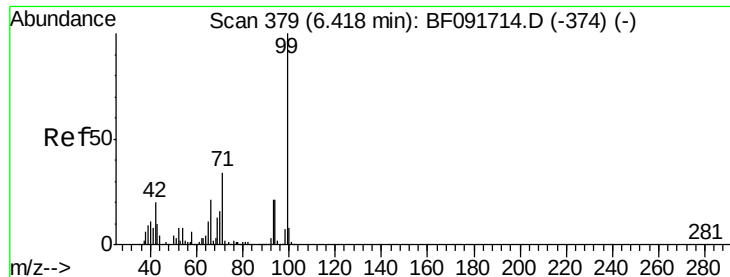
Ion Ratio Lower Upper

112 100

64 63.9 46.1 69.1

63 30.7 23.8 35.6





#7

Phenol-d6

Concen: 15.26 ng

RT: 6.41 min Scan# 378

Delta R.T. -0.01 min

Lab File: BF091767.D

Acq: 19 Dec 2016 6:14

Instrument :

BNA_F

ClientSampleId :

WC-2-0-5DL

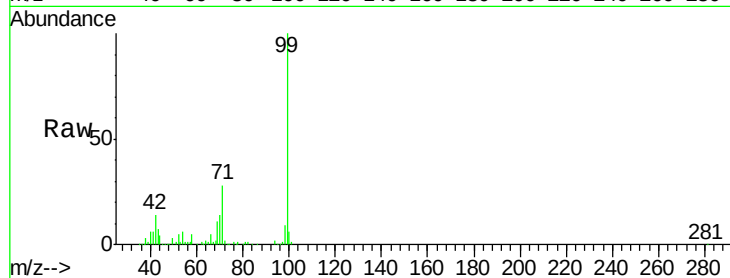
Tot Ion: 99 Resp: 226983

Ion Ratio Lower Upper

99 100

42 13.9 15.6 23.4#

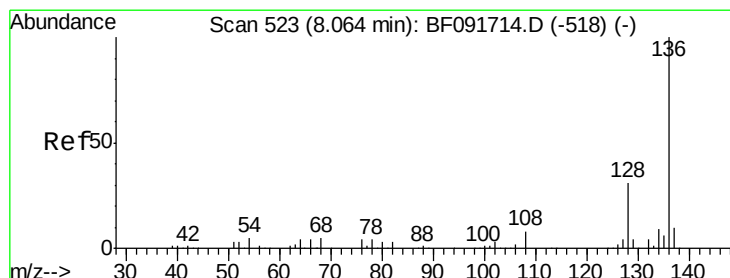
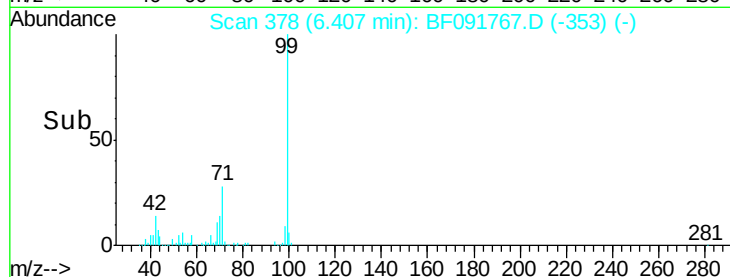
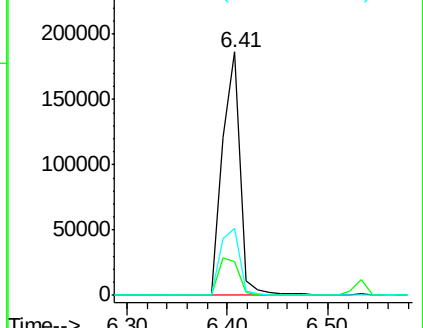
71 27.6 27.5 41.3



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: 8.05 min Scan# 522

Delta R.T. -0.01 min

Lab File: BF091767.D

Acq: 19 Dec 2016 6:14

Tgt Ion: 136 Resp: 856407

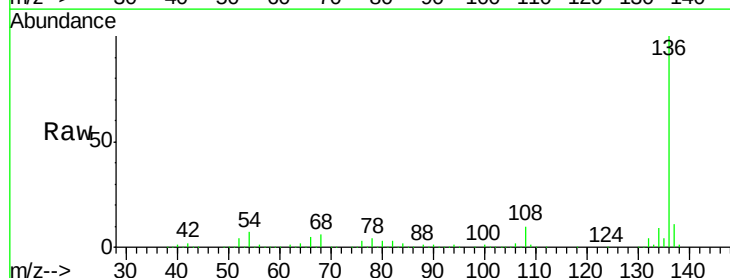
Ion Ratio Lower Upper

136 100

137 11.3 8.4 12.6

54 7.5 4.5 6.7#

68 6.1 3.6 5.4#

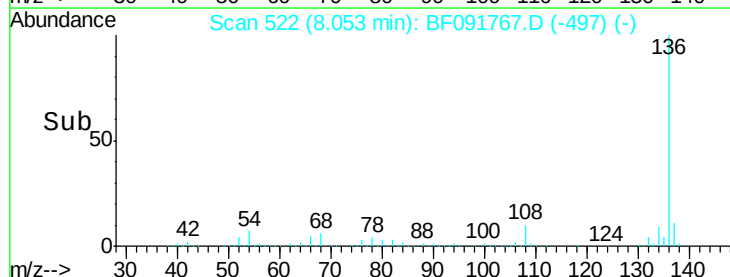
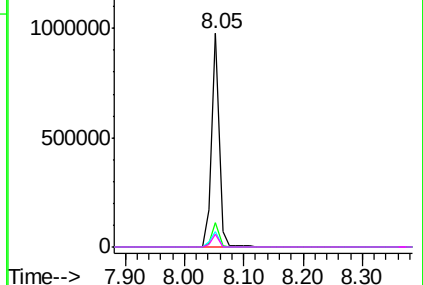


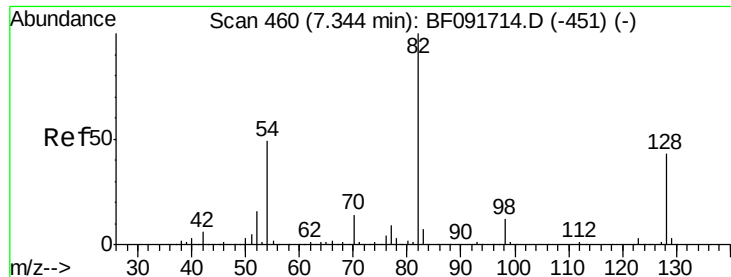
Abundance Ion 136.00 (135.70 to 136.70): E

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

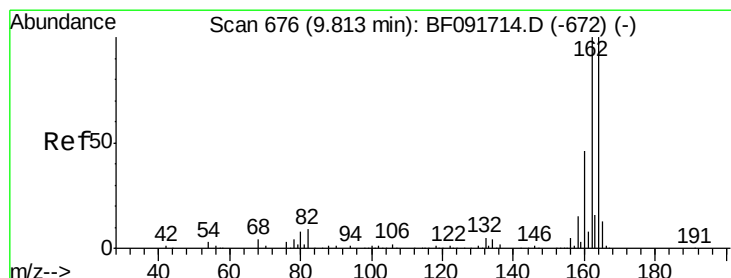
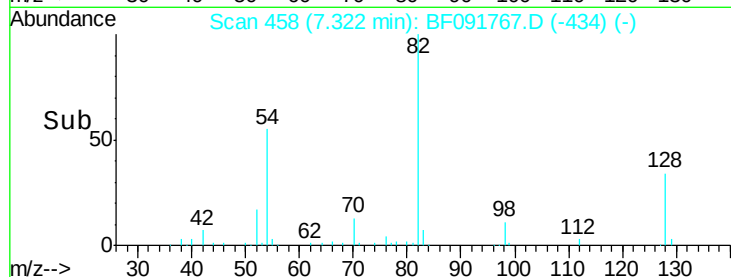
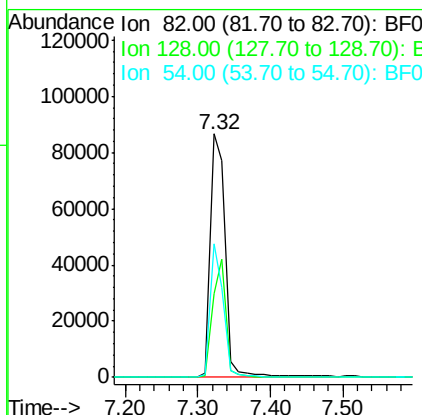
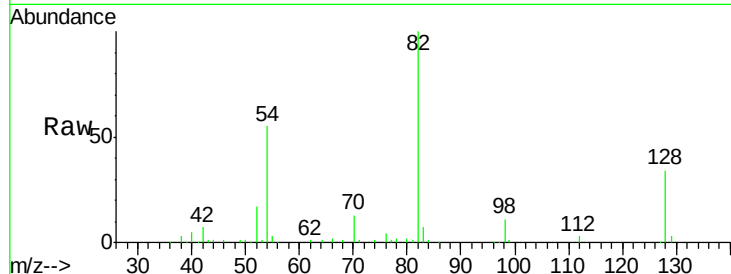




#23
Nitrobenzene-d5
Concen: 8.35 ng
RT: 7.32 min Scan# 458
Delta R.T. -0.02 min
Lab File: BF091767.D
Acq: 19 Dec 2016 6:14

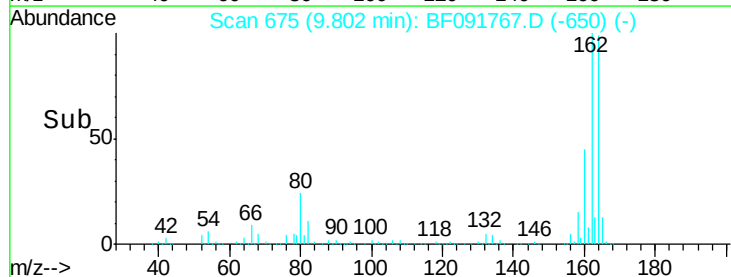
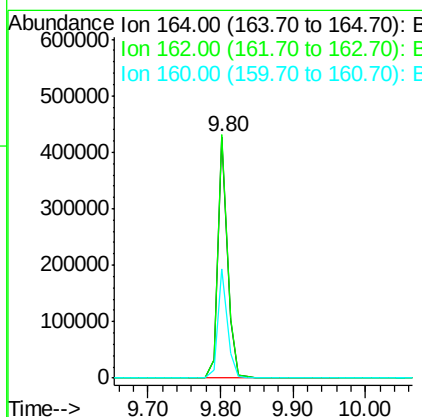
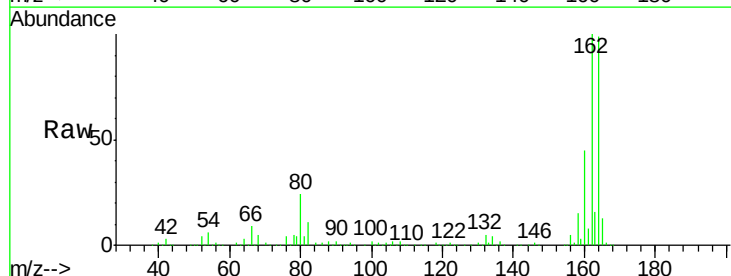
Instrument :
BNA_F
ClientSampleId :
WC-2-0-5DL

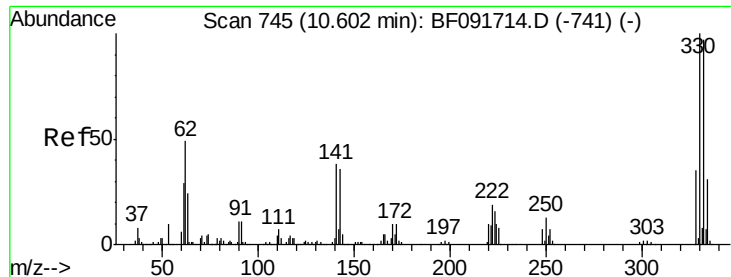
Tot Ion	82	Resp	123969
Ion Ratio	Lower	Upper	
82	100		
128	34.3	34.6	52.0#
54	55.0	39.5	59.3



#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 9.80 min Scan# 675
Delta R.T. -0.01 min
Lab File: BF091767.D
Acq: 19 Dec 2016 6:14

Tgt Ion	164	Resp	395633
Ion Ratio	Lower	Upper	
164	100		
162	100.9	80.2	120.2
160	45.2	36.9	55.3

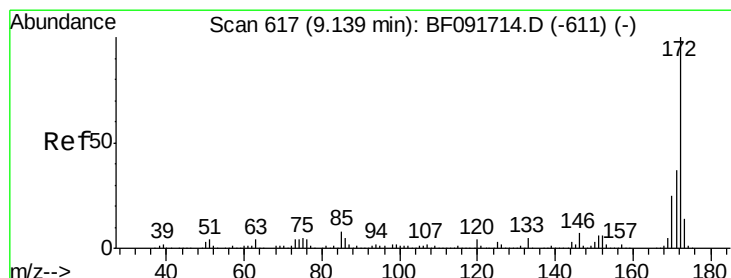
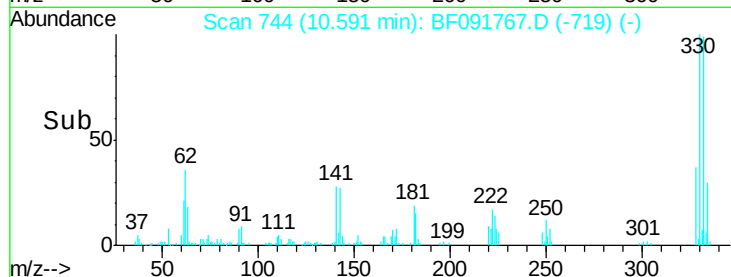
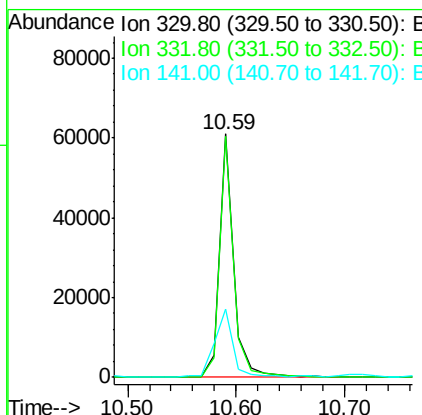
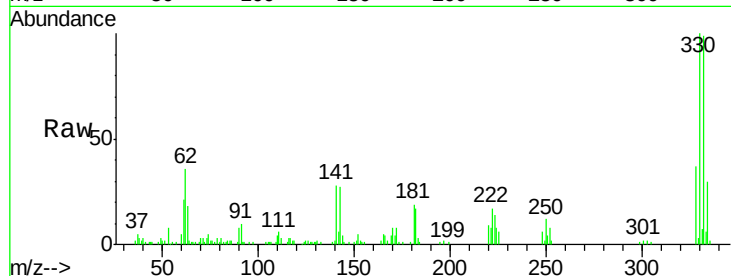




#41
 2,4,6-Tribromophenol
 Concen: 16.73 ng
 RT: 10.59 min Scan# 744
 Delta R.T. -0.01 min
 Lab File: BF091767.D
 Acq: 19 Dec 2016 6:14

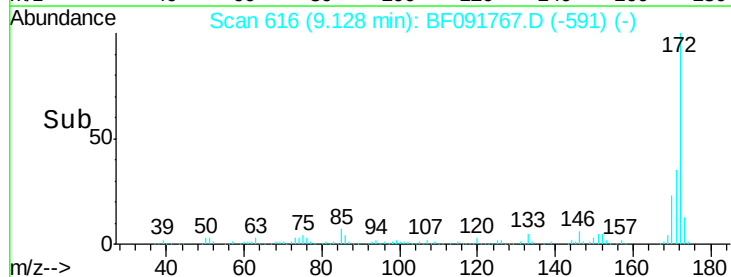
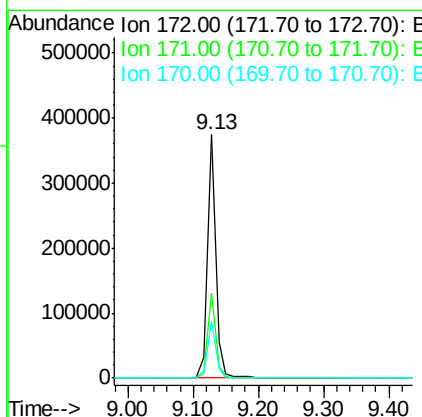
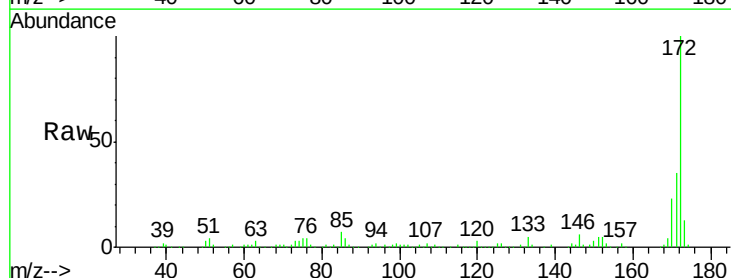
Instrument :
 BNA_F
 ClientSampleId :
 WC-2-0-5DL

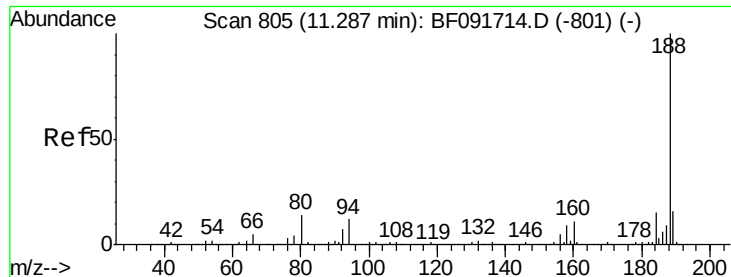
Tot Ion	Ratio	Lower	Upper
330	100		
332	97.2	77.4	116.2
141	36.3	34.1	51.1



#44
 2-Fluorobiphenyl
 Concen: 16.79 ng
 RT: 9.13 min Scan# 616
 Delta R.T. -0.01 min
 Lab File: BF091767.D
 Acq: 19 Dec 2016 6:14

Tgt Ion	Ratio	Lower	Upper
172	100		
171	34.7	29.4	44.0
170	23.1	20.2	30.4

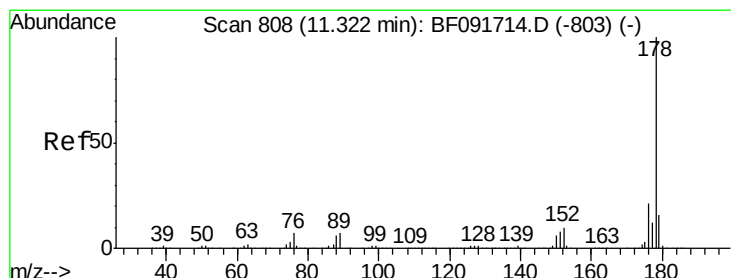
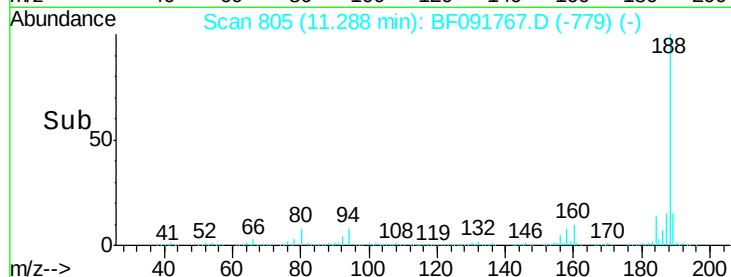
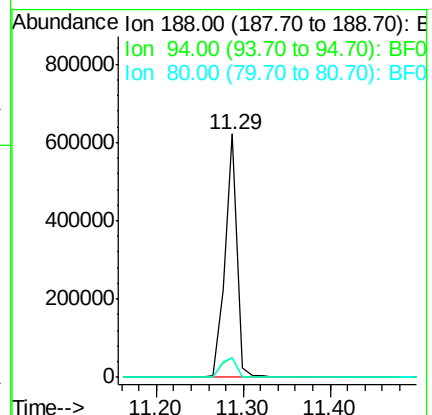
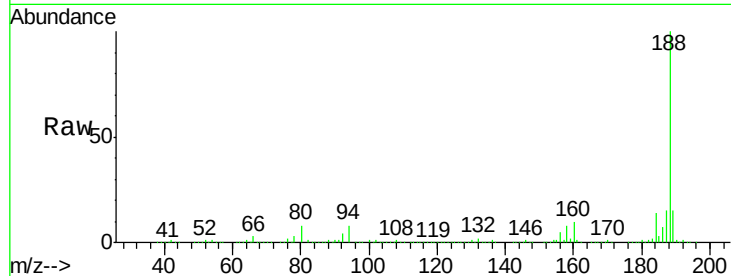




#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.29 min Scan# 805
Delta R.T. 0.00 min
Lab File: BF091767.D
Acq: 19 Dec 2016 6:14

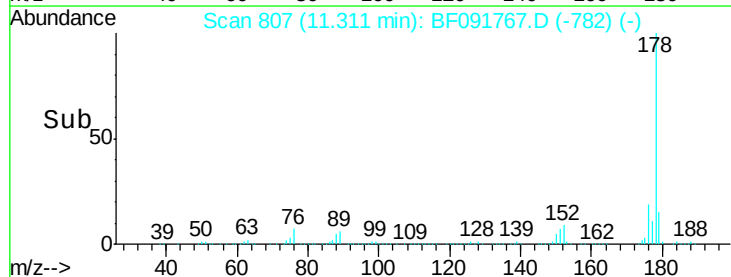
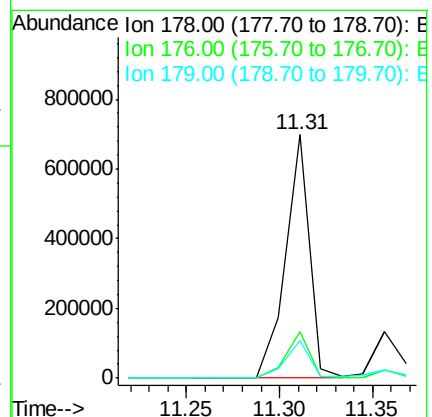
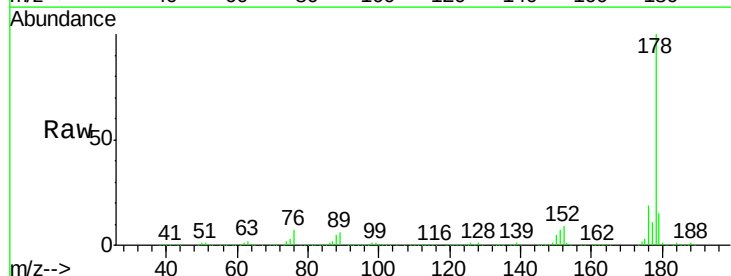
Instrument :
BNA_F
ClientSampleId :
WC-2-0-5DL

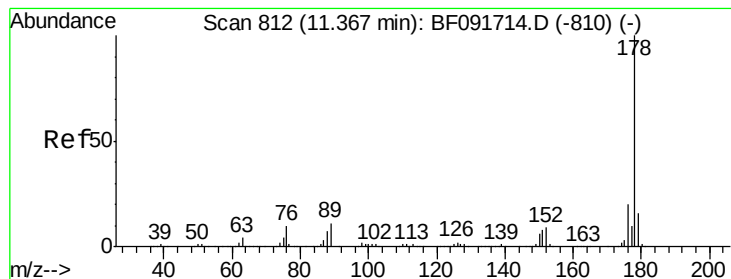
Tot Ion:188 Resp: 609630
Ion Ratio Lower Upper
188 100
94 7.8 10.0 15.0#
80 8.2 11.2 16.8#



#70
Phenanthrene
Concen: 20.37 ng
RT: 11.31 min Scan# 807
Delta R.T. -0.01 min
Lab File: BF091767.D
Acq: 19 Dec 2016 6:14

Tgt Ion:178 Resp: 620554
Ion Ratio Lower Upper
178 100
176 19.0 16.6 25.0
179 15.3 12.8 19.2





#71

Anthracene

Concen: 4.22 ng

RT: 11.36 min Scan# 811

Delta R.T. -0.01 min

Lab File: BF091767.D

Acq: 19 Dec 2016 6:14

Instrument :

BNA_F

ClientSampleId :

WC-2-0-5DL

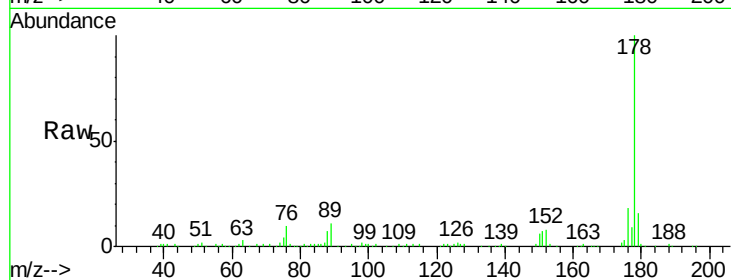
Tot Ion:178 Resp: 136129

Ion Ratio Lower Upper

178 100

176 18.5 15.9 23.9

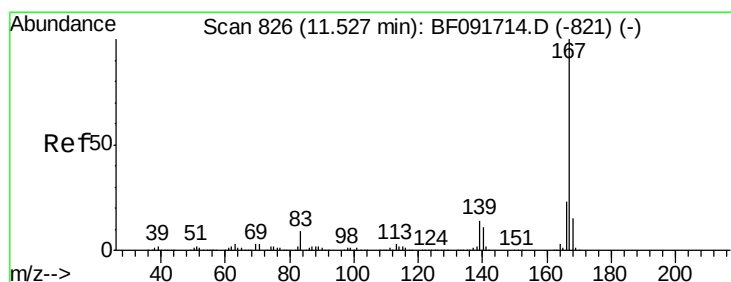
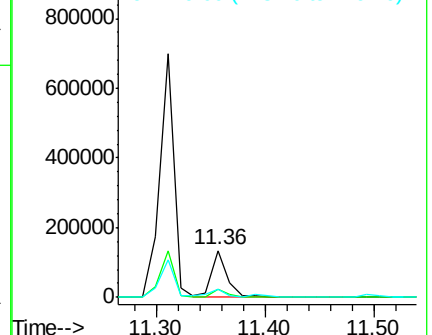
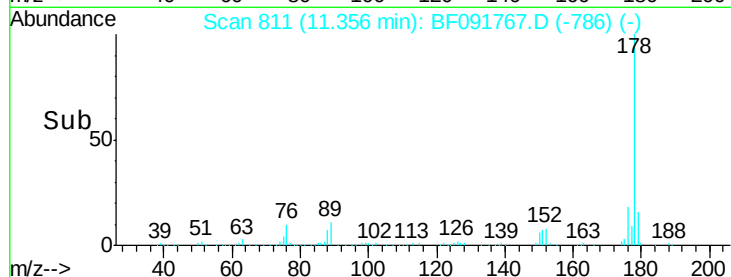
179 16.3 13.2 19.8



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



#72

Carbazole

Concen: 2.58 ng

RT: 11.52 min Scan# 825

Delta R.T. -0.01 min

Lab File: BF091767.D

Acq: 19 Dec 2016 6:14

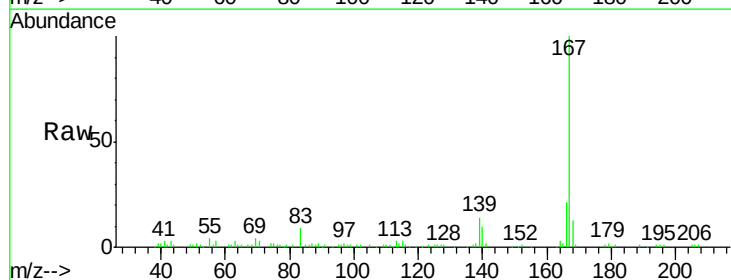
Tgt Ion:167 Resp: 72780

Ion Ratio Lower Upper

167 100

166 21.2 18.2 27.2

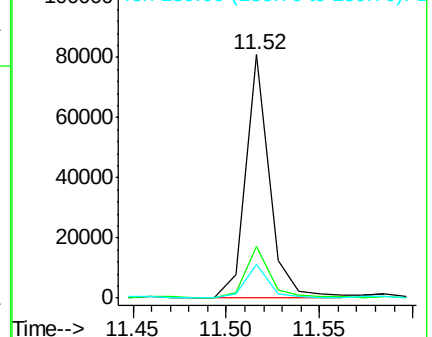
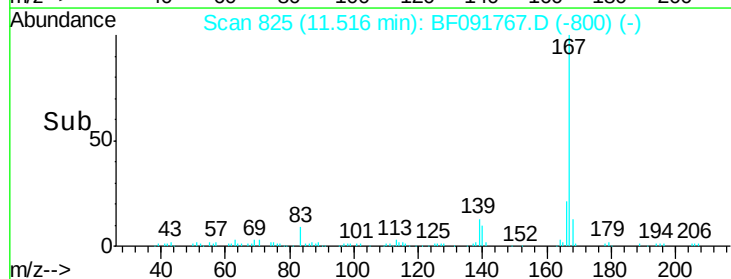
139 13.6 11.4 17.2

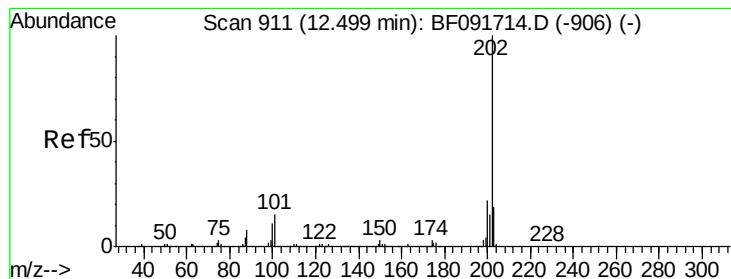


Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E

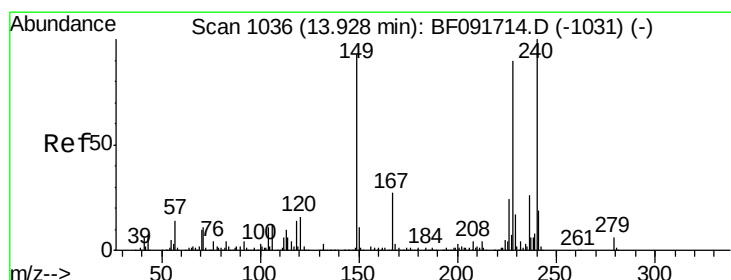
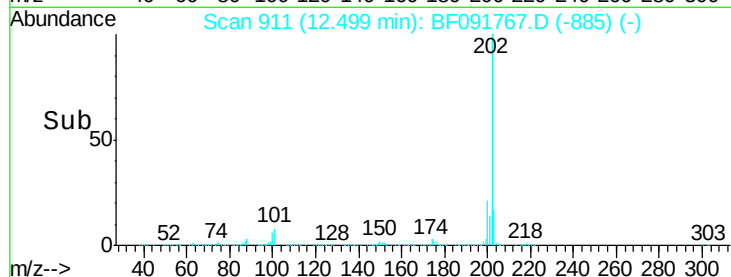
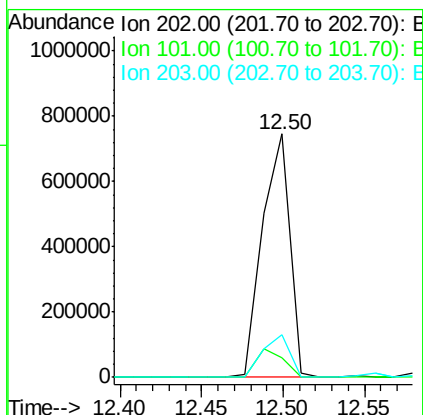
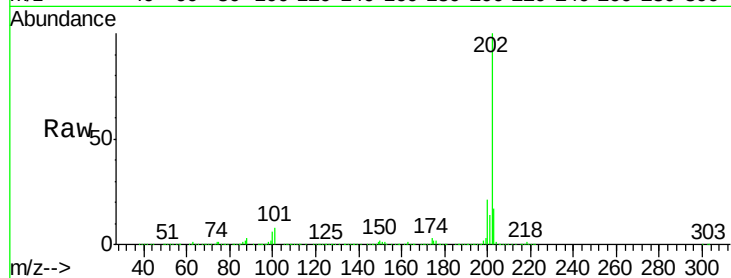




#74
Fluoranthene
Concen: 27.50 ng
RT: 12.50 min Scan# 911
Delta R.T. 0.00 min
Lab File: BF091767.D
Acq: 19 Dec 2016 6:14

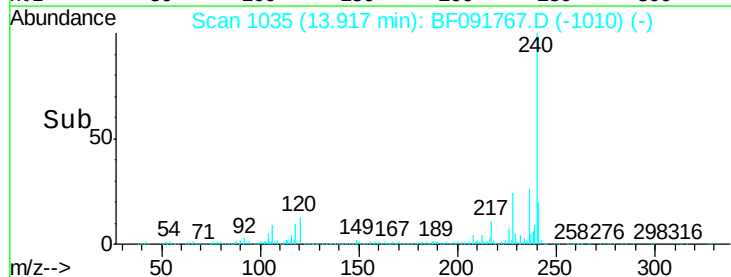
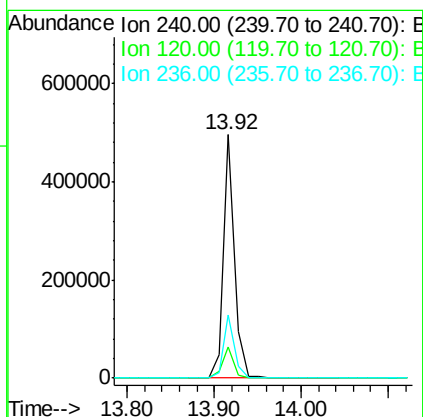
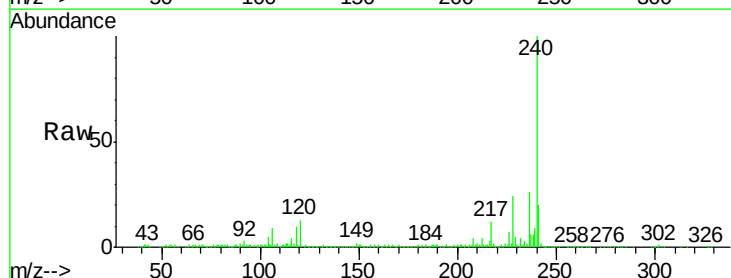
Instrument :
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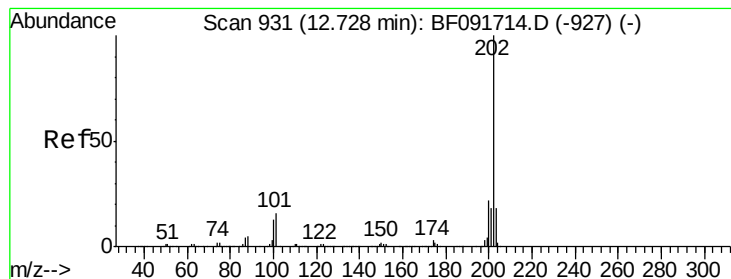
Tot Ion	Ratio	Lower	Upper
202	100		
101	7.8	0.0	34.6
203	17.4	0.0	38.7



#75
Chrysene-d12
Concen: 20.00 ng
RT: 13.92 min Scan# 1035
Delta R.T. -0.01 min
Lab File: BF091767.D
Acq: 19 Dec 2016 6:14

Tgt Ion	Ratio	Lower	Upper
240	100		
120	12.8	12.9	19.3#
236	25.8	20.9	31.3





#77

Pvrene

Concen: 20.93 ng

RT: 12.72 min Scan# 930

Delta R.T. -0.01 min

Lab File: BF091767.D

Acq: 19 Dec 2016 6:14

Instrument :

BNA_F

ClientSampleId :

WC-2-0-5DL

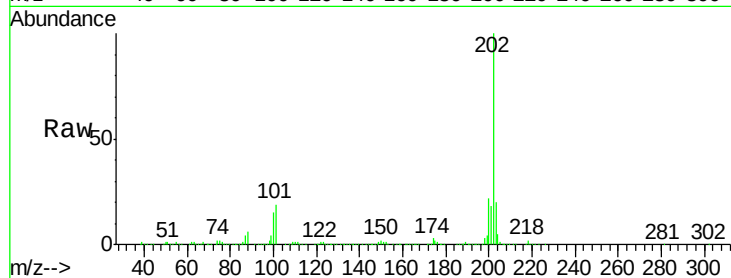
Tot Ion:202 Resp: 679520

Ion Ratio Lower Upper

202 100

200 21.5 17.7 26.5

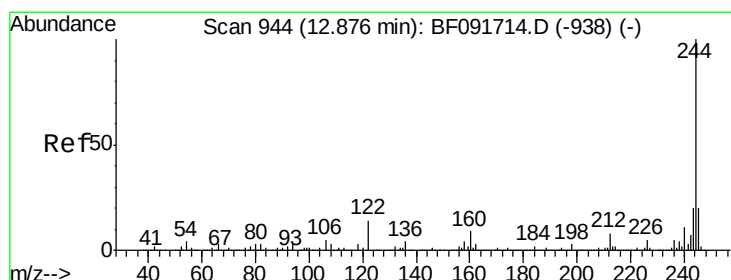
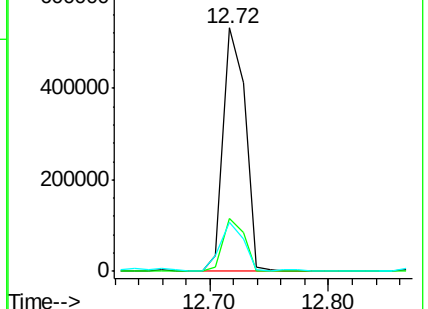
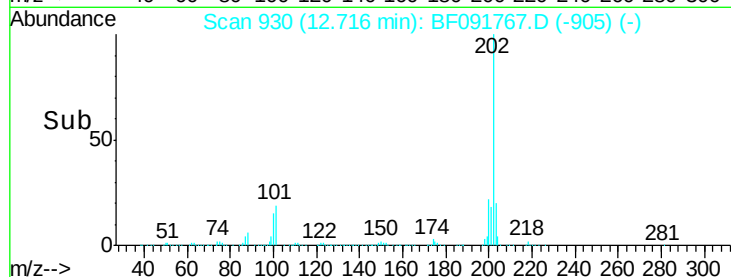
203 20.2 14.7 22.1



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: 15.65 ng

RT: 12.87 min Scan# 943

Delta R.T. -0.01 min

Lab File: BF091767.D

Acq: 19 Dec 2016 6:14

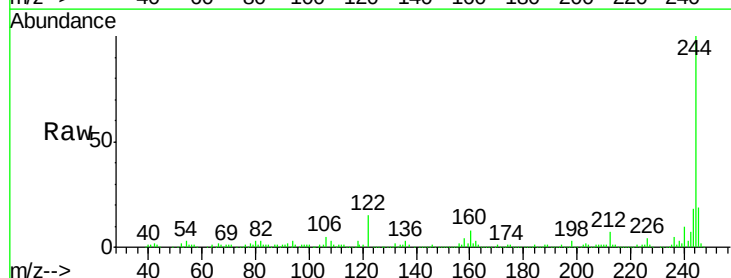
Tgt Ion:244 Resp: 278576

Ion Ratio Lower Upper

244 100

212 7.0 6.2 9.2

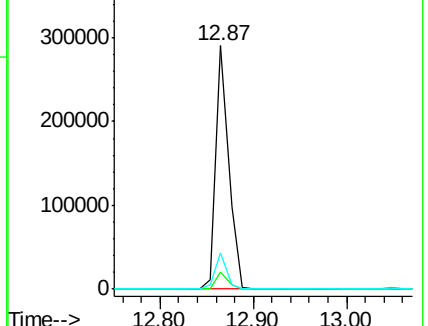
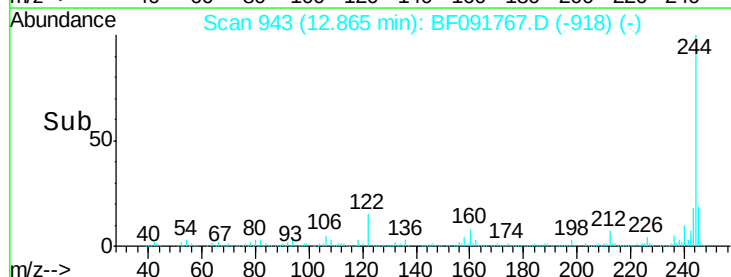
122 14.9 11.4 17.2

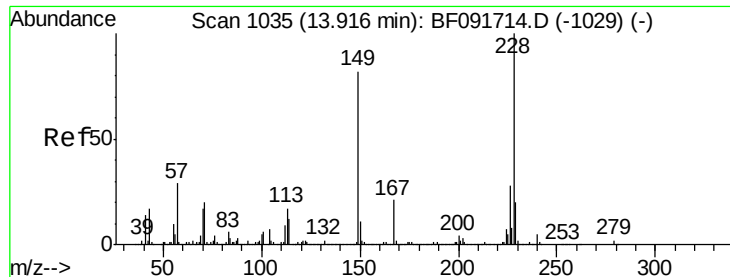


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#80

Benzo(a)anthracene

Concen: 15.49 ng

RT: 13.91 min Scan# 1034

Delta R.T. -0.01 min

Lab File: BF091767.D

Acq: 19 Dec 2016 6:14

Instrument :

BNA_F

ClientSampleId :

WC-2-0-5DL

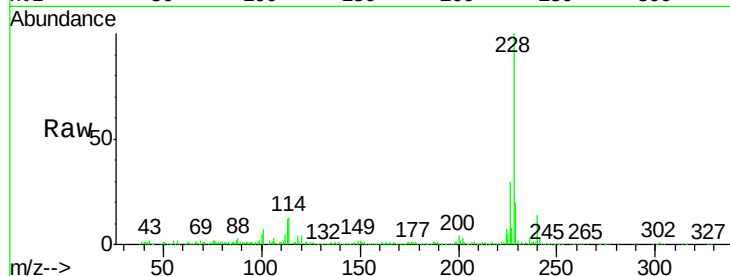
Tot Ion:228 Resp: 398288

Ion Ratio Lower Upper

228 100

226 30.1 22.4 33.6

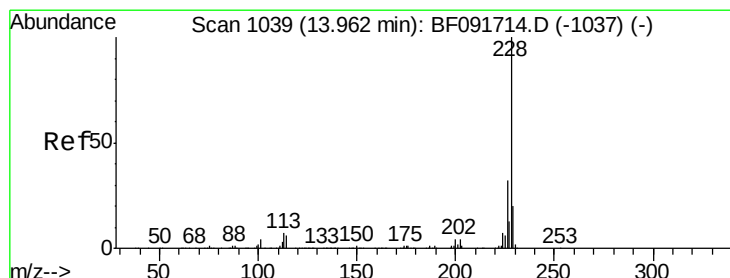
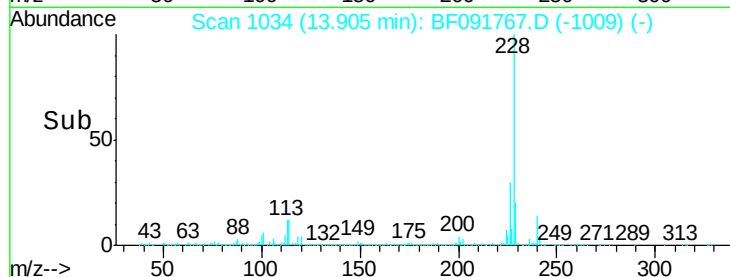
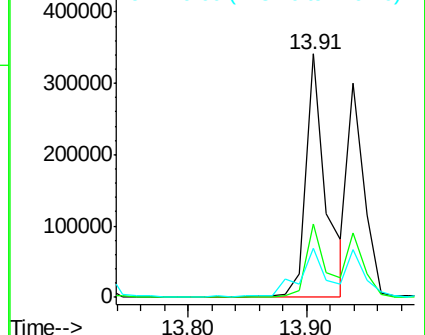
229 20.3 16.2 24.4



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: 10.89 ng

RT: 13.94 min Scan# 1037

Delta R.T. -0.02 min

Lab File: BF091767.D

Acq: 19 Dec 2016 6:14

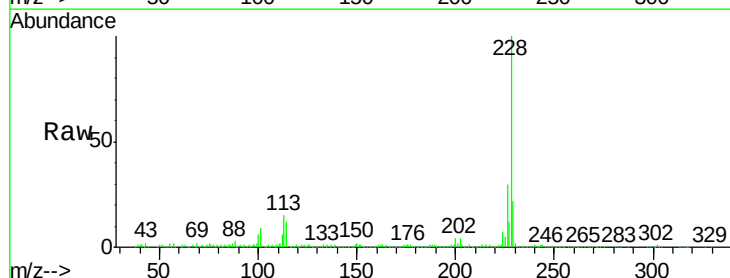
Tgt Ion:228 Resp: 290335

Ion Ratio Lower Upper

228 100

226 30.3 25.4 38.0

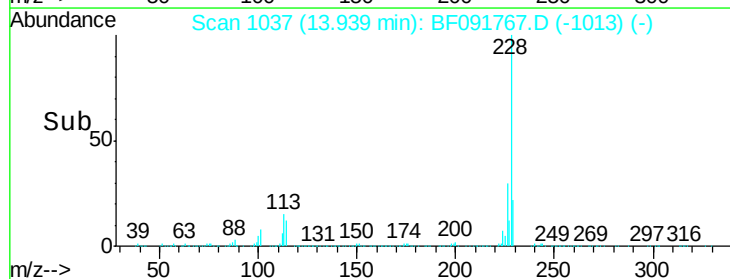
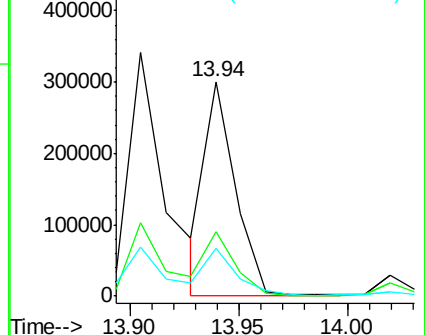
229 22.3 16.2 24.2

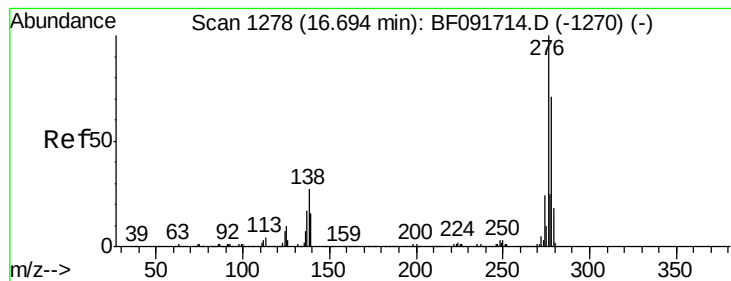


Abundance Ion 228.00 (227.70 to 228.70): E

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: 7.85 ng

RT: 16.66 min Scan# 1275

Delta R.T. -0.03 min

Lab File: BF091767.D

Acq: 19 Dec 2016 6:14

Instrument :

BNA_F

ClientSampleId :

WC-2-0-5DL

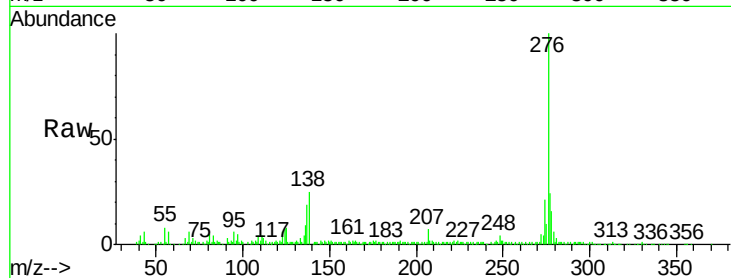
Tot Ion:276 Resp: 205608

Ion Ratio Lower Upper

276 100

138 24.0 21.8 32.6

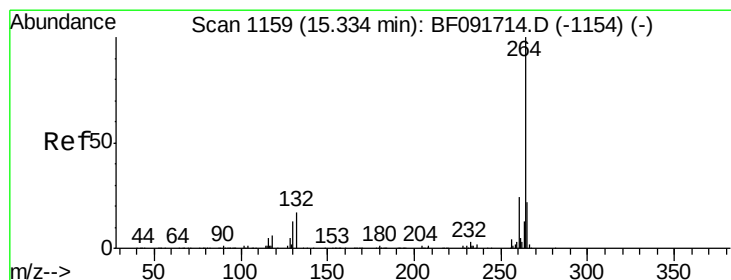
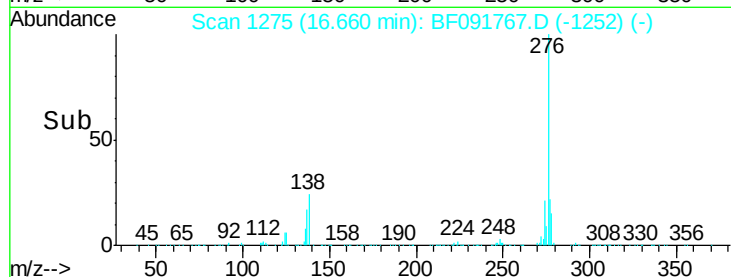
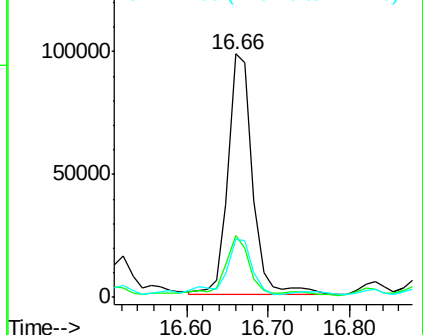
277 25.9 20.2 30.4



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: 15.32 min Scan# 1158

Delta R.T. -0.01 min

Lab File: BF091767.D

Acq: 19 Dec 2016 6:14

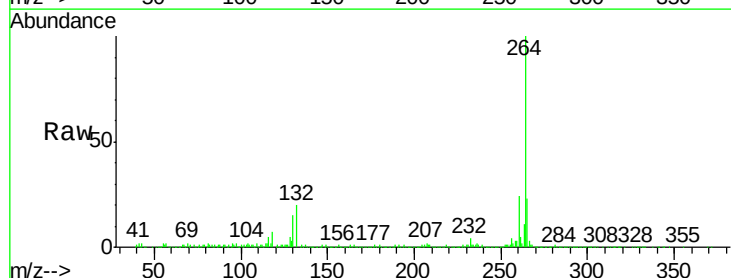
Tgt Ion:264 Resp: 463488

Ion Ratio Lower Upper

264 100

260 23.8 19.2 28.8

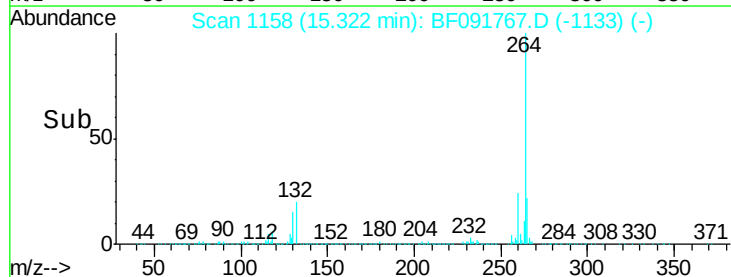
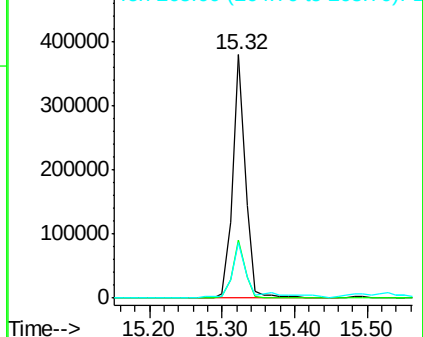
265 22.5 17.4 26.0

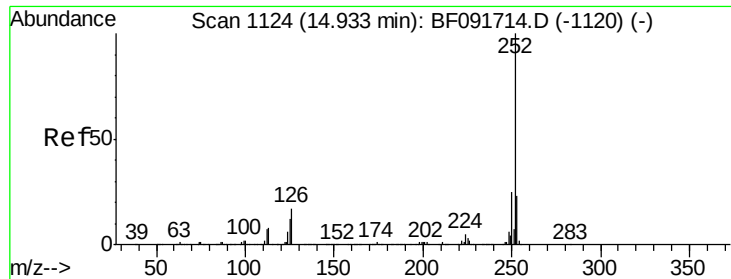


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E

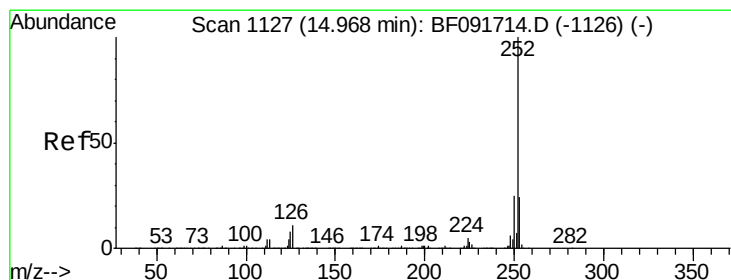
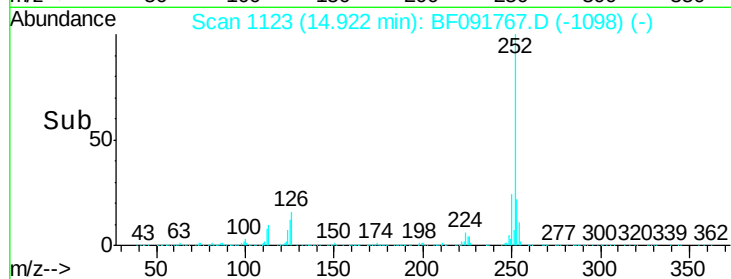
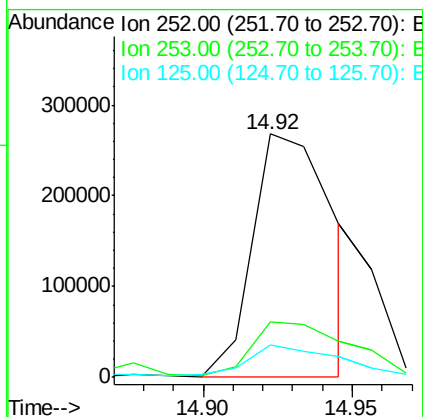
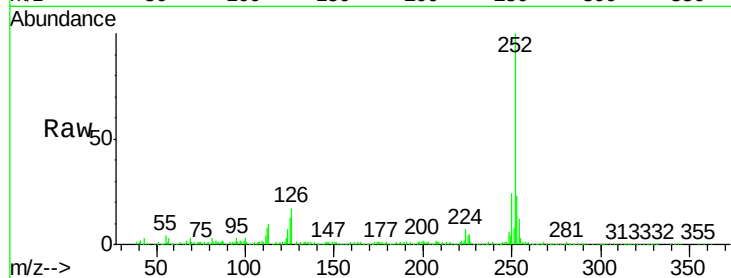




#87
Benzo(b)fluoranthene
Concen: 17.11 ng m
RT: 14.92 min Scan# 1123
Delta R.T. -0.01 min
Lab File: BF091767.D
Acq: 19 Dec 2016 6:14

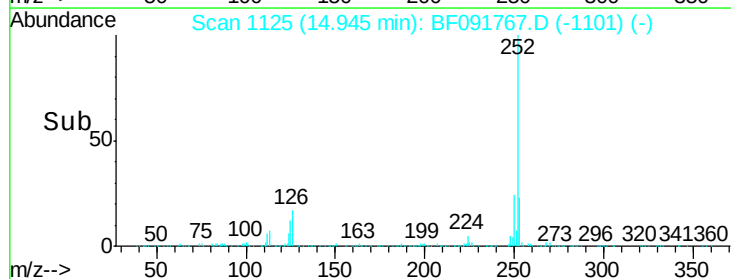
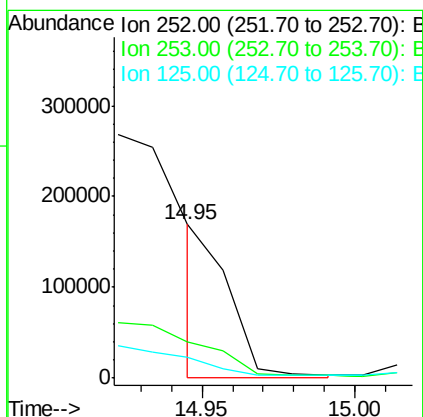
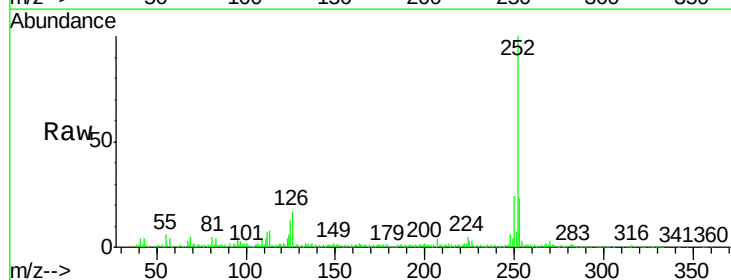
Instrument :
BNA_F
ClientSampleId :
WC-2-0-5DL

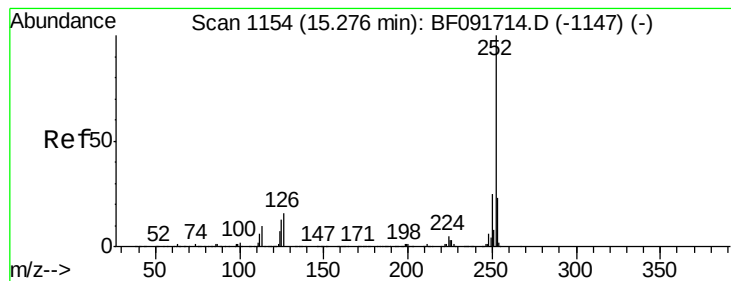
Tot Ion:252 Resp: 502772
Ion Ratio Lower Upper
252 100
253 23.0 18.2 27.4
125 13.3 9.8 14.6



#88
Benzo(k)fluoranthene
Concen: 4.58 ng m
RT: 14.95 min Scan# 1125
Delta R.T. -0.02 min
Lab File: BF091767.D
Acq: 19 Dec 2016 6:14

Tgt Ion:252 Resp: 94376
Ion Ratio Lower Upper
252 100
253 23.2 18.5 27.7
125 13.2 8.9 13.3





#89

Benzo(a)pyrene

Concen: 11.82 ng

RT: 15.27 min Scan# 1153

Delta R.T. -0.01 min

Lab File: BF091767.D

Acq: 19 Dec 2016 6:14

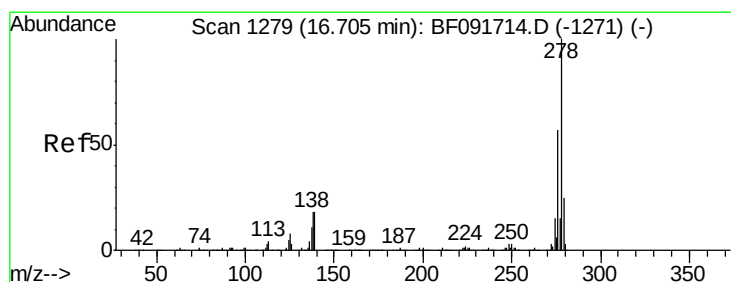
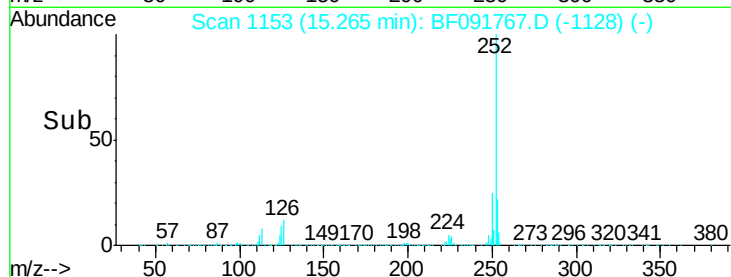
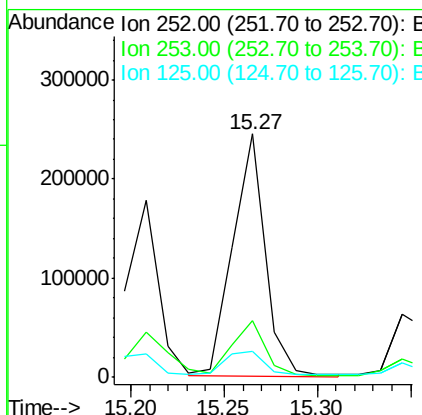
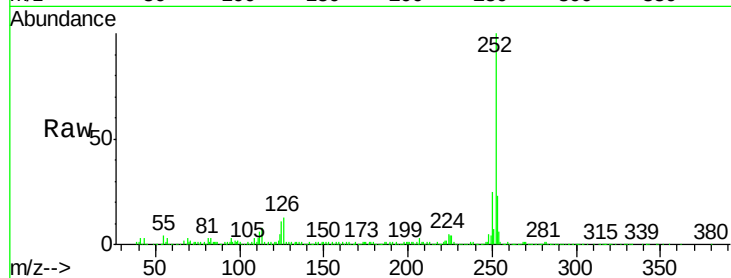
Instrument :

BNA_F

ClientSampleId :

WC-2-0-5DL

Tot Ion:	252	Resp:	298182
Ion Ratio	Lower	Upper	
252	100		
253	23.5	18.2	27.2
125	10.5	10.0	15.0



#90

Dibenzo(a,h)anthracene

Concen: 2.35 ng

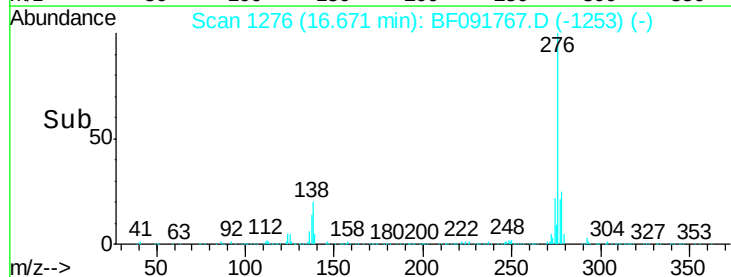
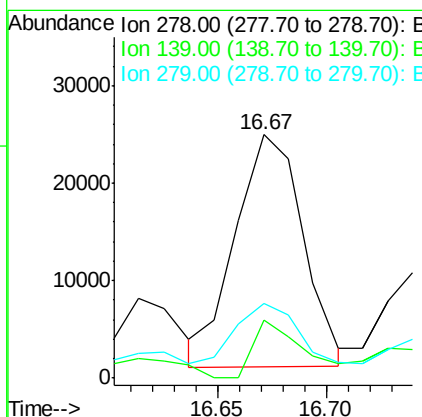
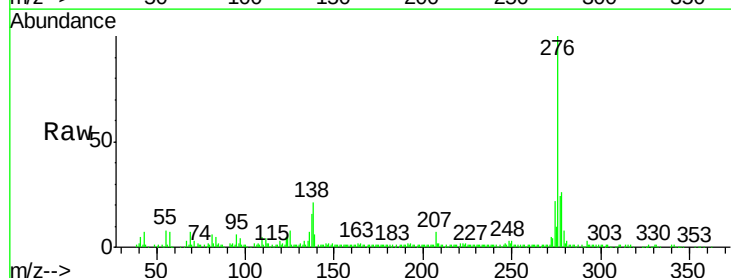
RT: 16.67 min Scan# 1276

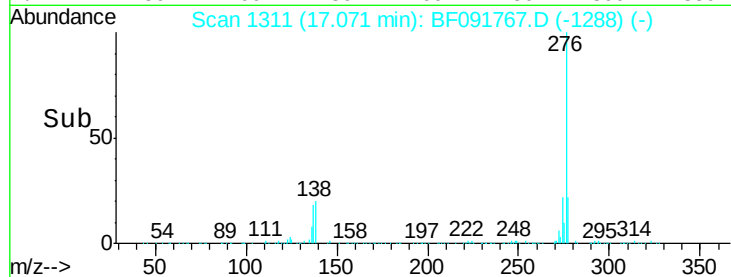
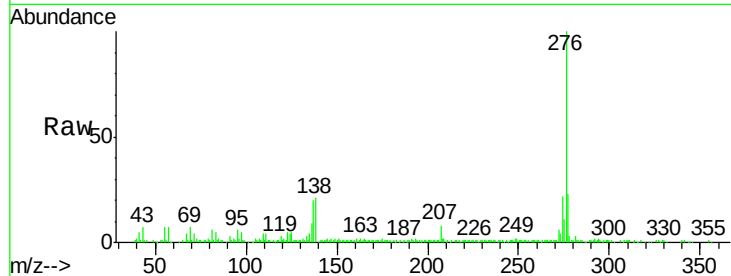
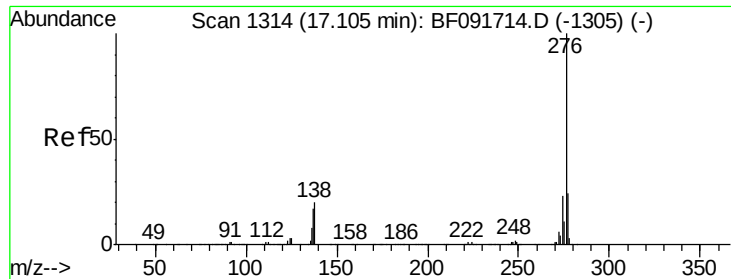
Delta R.T. -0.03 min

Lab File: BF091767.D

Acq: 19 Dec 2016 6:14

Tgt Ion:	278	Resp:	51586
Ion Ratio	Lower	Upper	
278	100		
139	24.0	14.8	22.2#
279	30.5	19.8	29.6#





#91

Benzo(a,h,i)perylene

Concen: 7.81 ng

RT: 17.07 min Scan# 1311

Delta R.T. -0.03 min

Lab File: BF091767.D

Acq: 19 Dec 2016 6:14

Instrument :

BNA_F

ClientSampleId :

WC-2-0-5DL

Tot Ion: 276 Resp: 174444

Ion Ratio Lower Upper

276 100

277 23.5 19.2 28.8

138 21.5 16.0 24.0

