

Data Path : Z:\HPCHEM1\BNA F\DATA\BF072817\
 Data File : BF097165.D
 Acq On : 28 Jul 2017 20:31
 Operator : SJ/JU
 Sample : 4466-01 5X
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 HD-02-072617

Quant Time: Jul 28 22:43:31 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF072517.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Jul 25 14:11:51 2017
 Response via : Initial Calibration

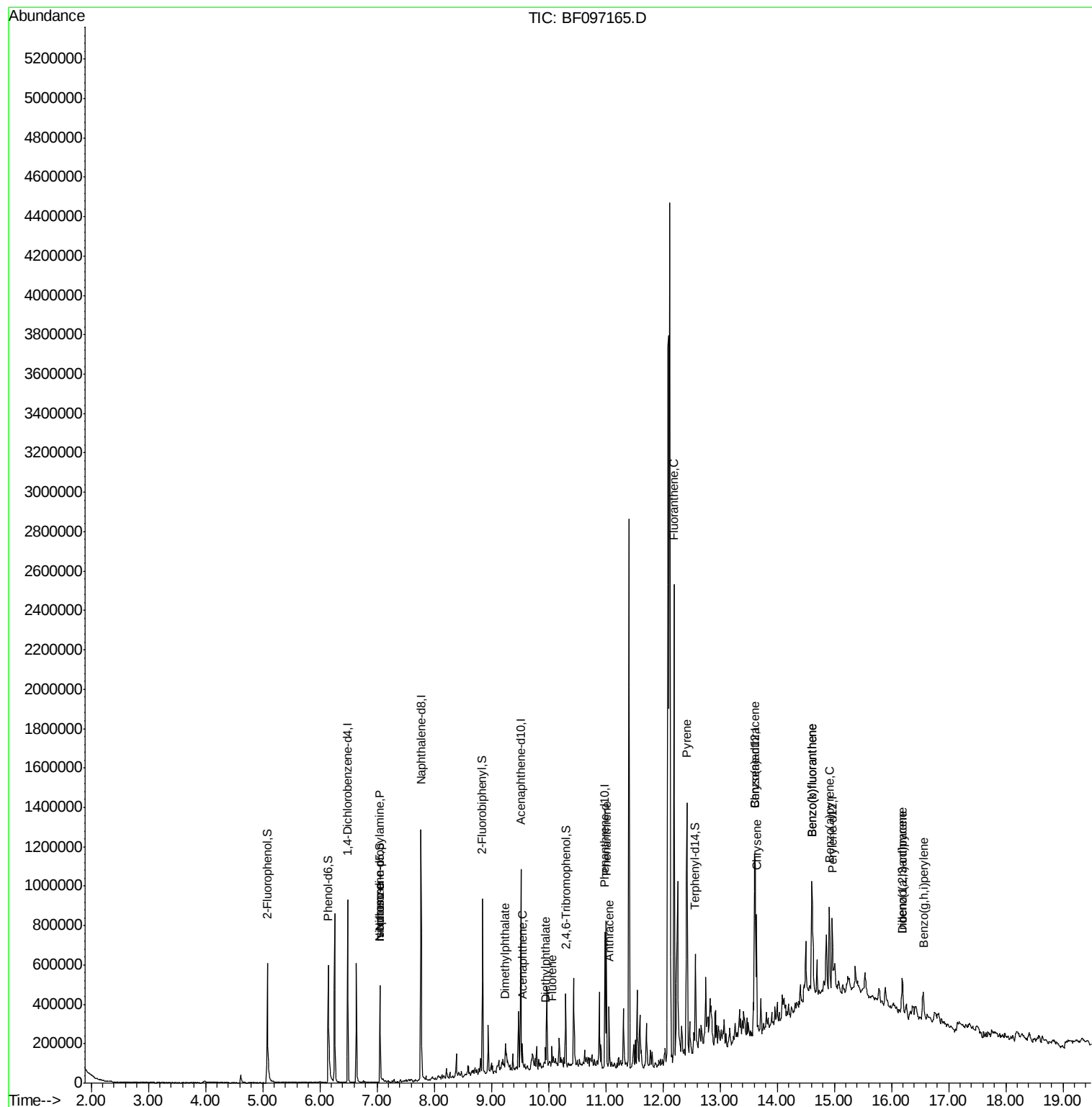
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.49	152	129689	20.00	ng	-0.01
21) Naphthalene-d8	7.77	136	516428	20.00	ng	-0.02
38) Acenaphthene-d10	9.52	164	186247	20.00	ng	-0.02
63) Phenanthrene-d10	10.99	188	238330	20.00	ng	-0.02
75) Chrysene-d12	13.62	240	211553	20.00	ng	-0.01
86) Perylene-d12	14.97	264	172783	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.08	112	212061	24.65	ng	-0.02
7) Phenol-d6	6.15	99	264578	26.94	ng	-0.02
23) Nitrobenzene-d5	7.05	82	139266	15.82	ng	-0.02
41) 2,4,6-Tribromophenol	10.30	330	31688	21.53	ng	-0.02
44) 2-Fluorobiphenyl	8.85	172	239517	21.82	ng	-0.02
78) Terphenyl-d14	12.57	244	135523	13.06	ng	-0.02
Target Compounds						Qvalue
19) n-Nitroso-di-n-propylamine	7.05	70	18188	2.81	ng	# 87
25) Isophorone	7.05	82	139265	8.08	ng	# 67
49) Dimethylphthalate	9.25	163	33759	2.39	ng	98
51) Acenaphthene	9.55	154	22906	2.16	ng	99
57) Fluorene	10.06	166	26844	2.53	ng	# 94
59) Diethylphthalate	9.95	149	35866	2.76	ng	100
70) Phenanthrene	11.01	178	275291	21.56	ng	98
71) Anthracene	11.06	178	100609	7.69	ng	98
74) Fluoranthene	12.20	202	515717	41.22	ng	96
77) Pyrene	12.42	202	497135	28.70	ng	99
80) Benzo(a)anthracene	13.60	228	268392	19.61	ng	99
82) Chrysene	13.64	228	225267	16.85	ng	97
85) Indeno(1,2,3-cd)pyrene	16.19	276	99777	8.71	ng	93
87) Benzo(b)fluoranthene	14.61	252	362143	34.87	ng	# 96
88) Benzo(k)fluoranthene	14.61	252	362143	36.59	ng	99
89) Benzo(a)pyrene	14.92	252	183193	19.27	ng	97
90) Dibenzo(a,h)anthracene	16.19	278	23471	3.01	ng	# 70
91) Benzo(g,h,i)perylene	16.56	276	91644	11.21	ng	98

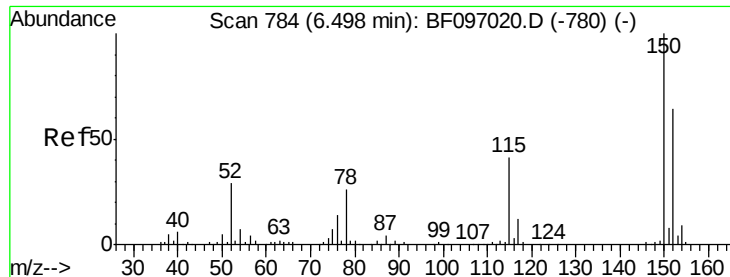
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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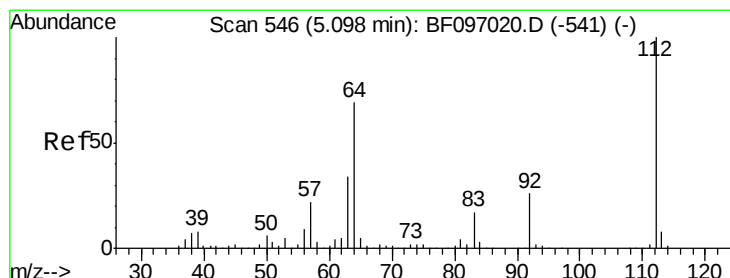
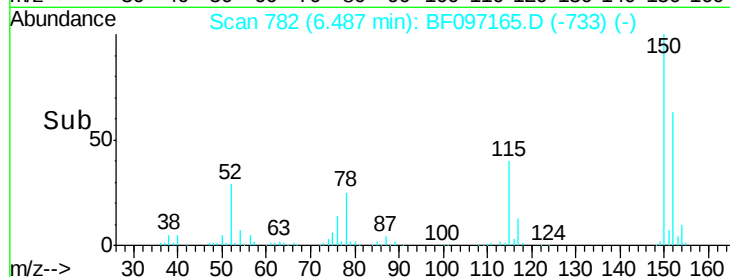
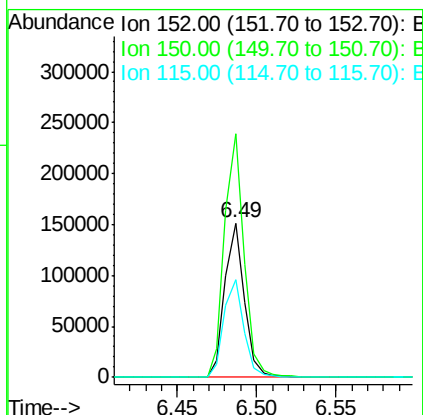
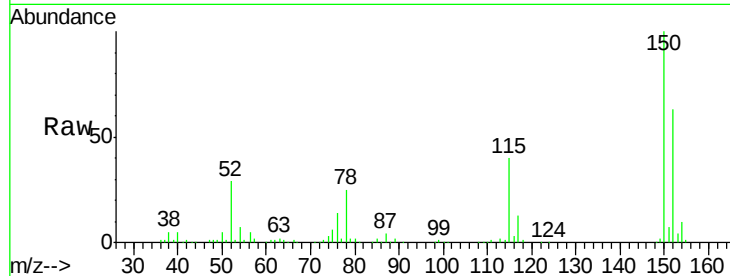


#1

1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.49 min Scan# 782
Delta R.T. -0.01 min
Lab File: BF097165.D
Acq: 28 Jul 2017 20:31

Instrument :
BNA_F
ClientSampleId :
HD-02-072617

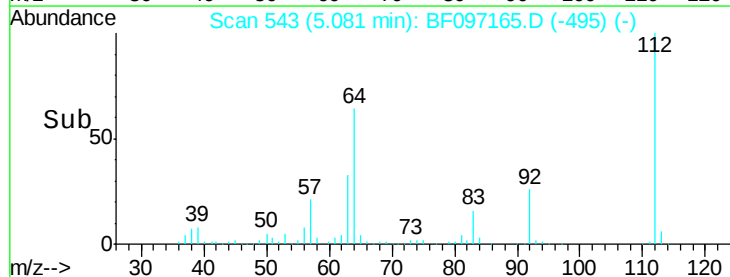
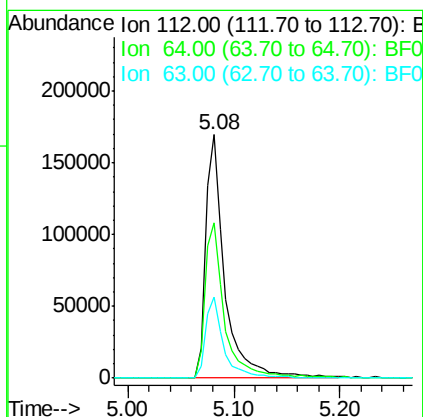
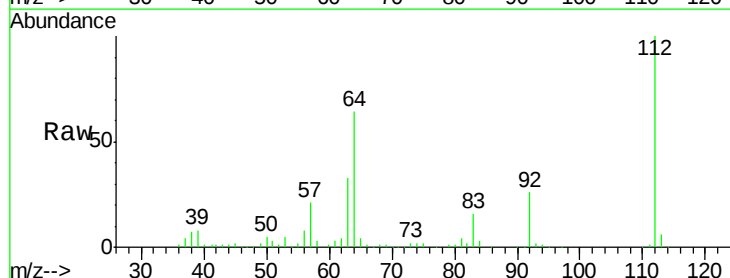
Tot Ion:152 Resp: 129689
Ion Ratio Lower Upper
152 100
150 158.1 126.2 189.2
115 63.7 52.2 78.2

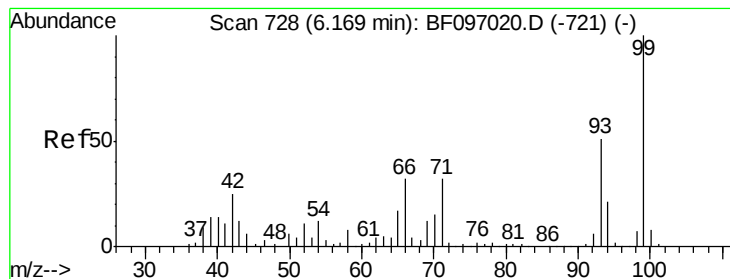


#5

2-Fluorophenol
Concen: 24.65 ng
RT: 5.08 min Scan# 543
Delta R.T. -0.02 min
Lab File: BF097165.D
Acq: 28 Jul 2017 20:31

Tgt Ion:112 Resp: 212061
Ion Ratio Lower Upper
112 100
64 63.9 46.0 69.0
63 33.3 23.4 35.0





#7

Phenol-d6

Concen: 26.94 ng

RT: 6.15 min Scan# 724

Delta R.T. -0.02 min

Lab File: BF097165.D

Acq: 28 Jul 2017 20:31

Instrument :

BNA_F

ClientSampleId :

HD-02-072617

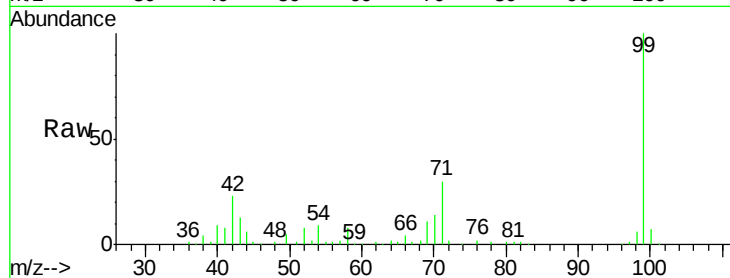
Tot Ion: 99 Resp: 264578

Ion Ratio Lower Upper

99 100

42 23.3 13.5 20.3#

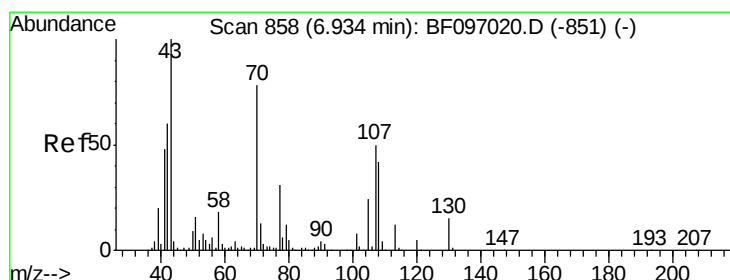
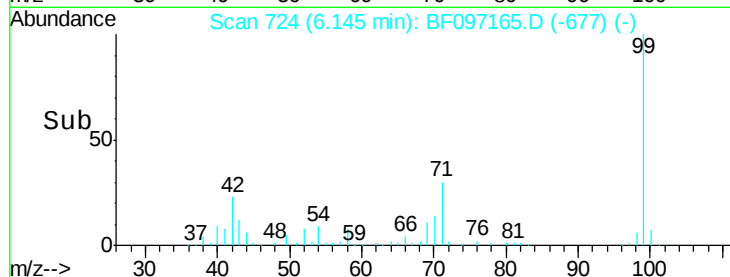
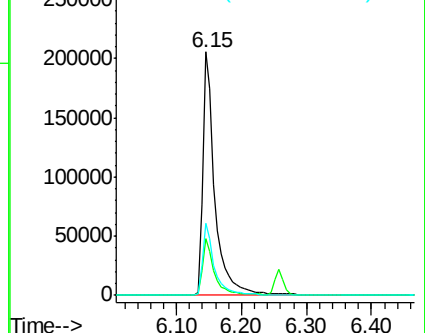
71 29.8 24.5 36.7



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



#19

n-Nitroso-di-n-propylamine

Concen: 2.81 ng

RT: 7.05 min Scan# 878

Delta R.T. 0.12 min

Lab File: BF097165.D

Acq: 28 Jul 2017 20:31

Tgt Ion: 70 Resp: 18188

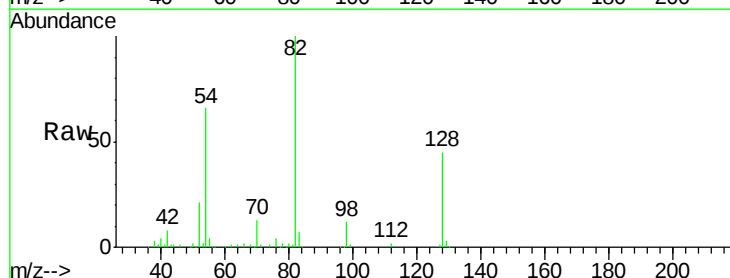
Ion Ratio Lower Upper

70 100

42 57.5 47.2 70.8

101 0.0 7.2 10.8#

130 2.1 15.9 23.9#

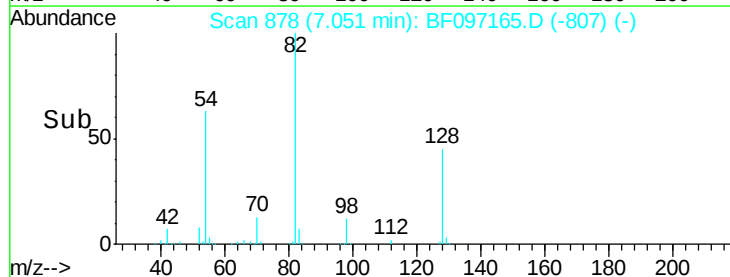
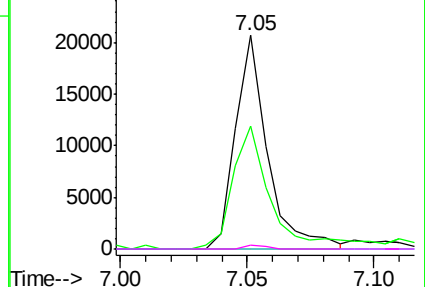


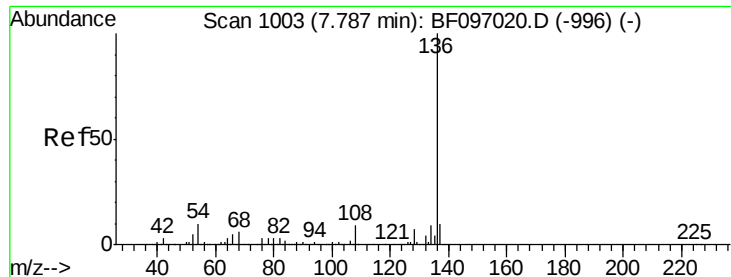
Abundance Ion 70.00 (69.70 to 70.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 101.00 (100.70 to 101.70): BF0

Ion 130.00 (129.70 to 130.70): BF0





#21

Naphthalene-d8

Concen: 20.00 ng

RT: 7.77 min Scan# 1000

Delta R.T. -0.02 min

Lab File: BF097165.D

Acq: 28 Jul 2017 20:31

Instrument :

BNA_F

ClientSampleId :

HD-02-072617

Tot Ion:136 Resp: 516428

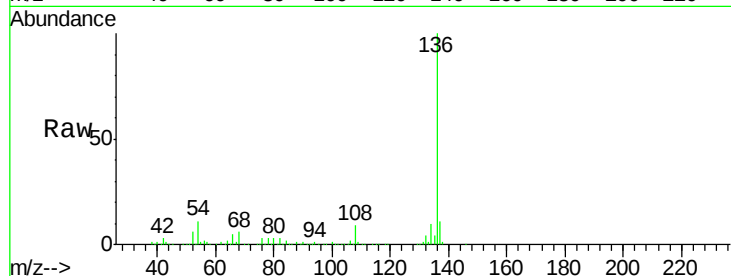
Ion Ratio Lower Upper

136 100

137 10.7 8.5 12.7

54 11.2 4.9 7.3#

68 6.5 4.1 6.1#

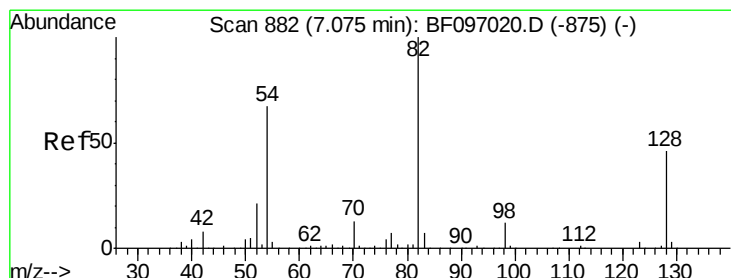
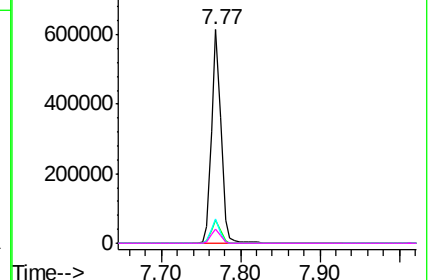
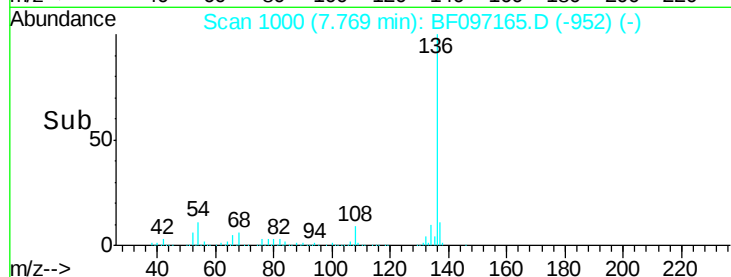


Abundance Ion 136.00 (135.70 to 136.70): E

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: 15.82 ng

RT: 7.05 min Scan# 878

Delta R.T. -0.02 min

Lab File: BF097165.D

Acq: 28 Jul 2017 20:31

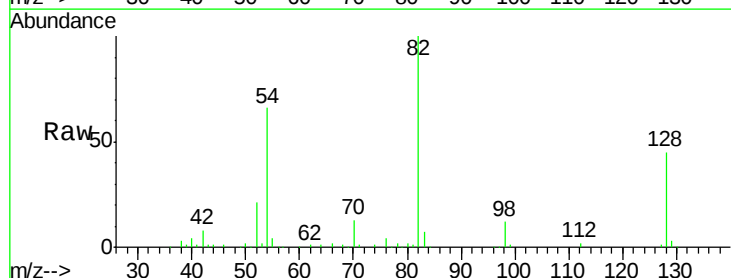
Tgt Ion: 82 Resp: 139266

Ion Ratio Lower Upper

82 100

128 45.3 34.0 51.0

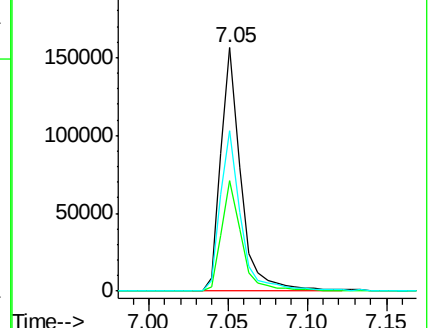
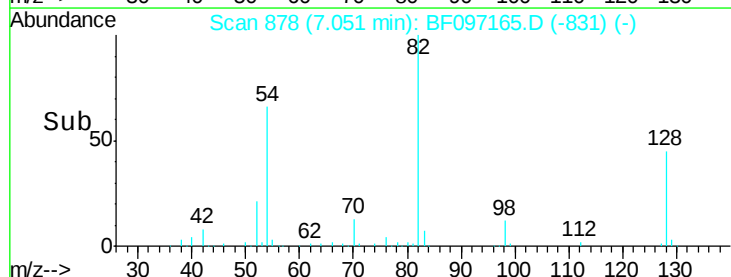
54 65.8 42.2 63.2#

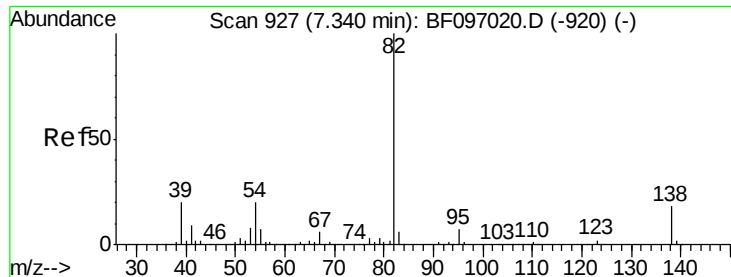


Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF0





#25

Isophorone

Concen: 8.08 ng

RT: 7.05 min Scan# 878

Delta R.T. -0.29 min

Lab File: BF097165.D

Acq: 28 Jul 2017 20:31

Instrument :

BNA_F

ClientSampleId :

HD-02-072617

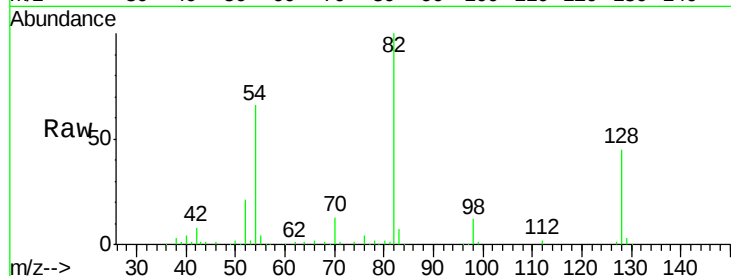
Tot Ion: 82 Resp: 139265

Ion Ratio Lower Upper

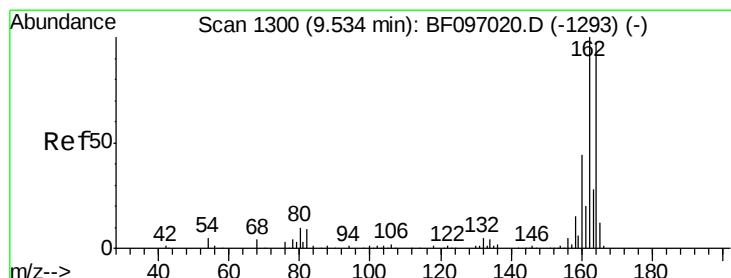
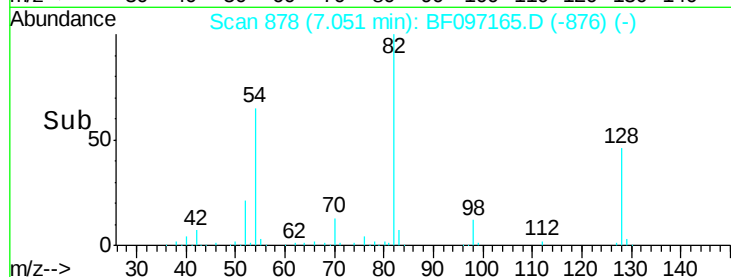
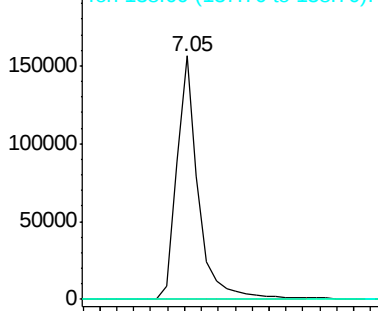
82 100

95 0.0 5.3 7.9#

138 0.0 13.1 19.7#



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): E



#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.52 min Scan# 1297

Delta R.T. -0.02 min

Lab File: BF097165.D

Acq: 28 Jul 2017 20:31

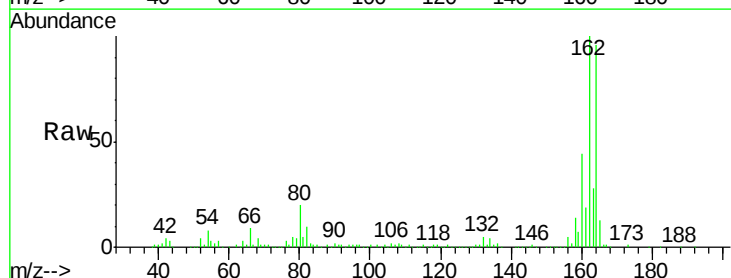
Tgt Ion:164 Resp: 186247

Ion Ratio Lower Upper

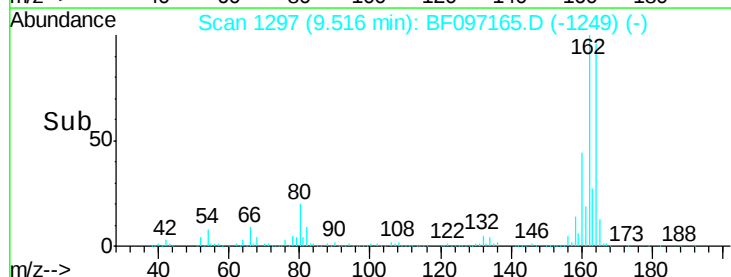
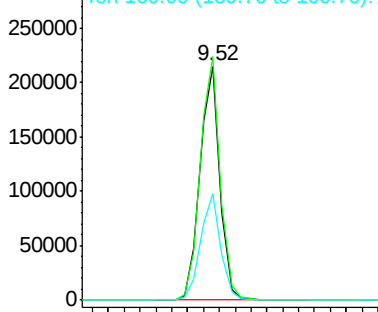
164 100

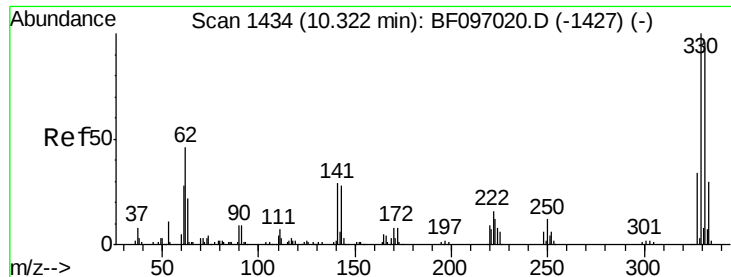
162 104.2 82.6 123.8

160 45.9 36.2 54.2



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

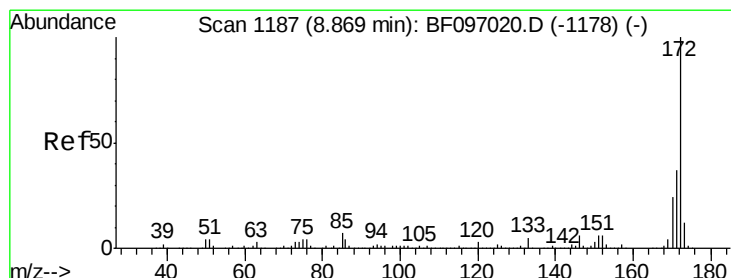
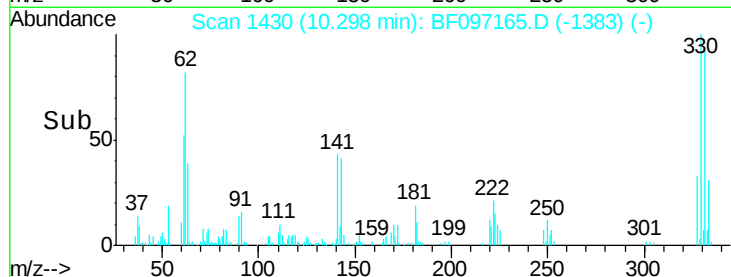
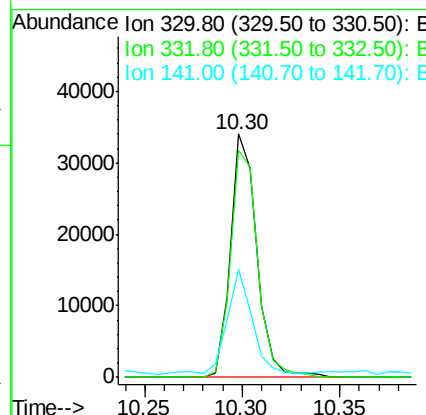
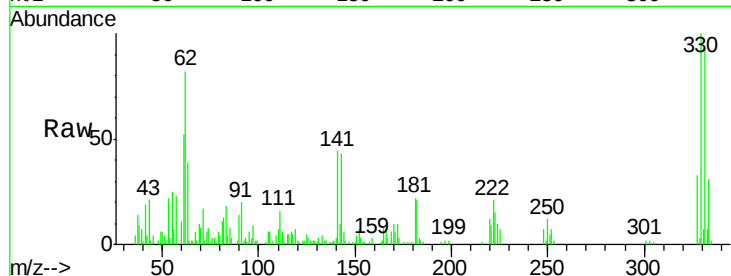




#41
 2,4,6-Tribromophenol
 Concen: 21.53 ng
 RT: 10.30 min Scan# 1430
 Delta R.T. -0.02 min
 Lab File: BF097165.D
 Acq: 28 Jul 2017 20:31

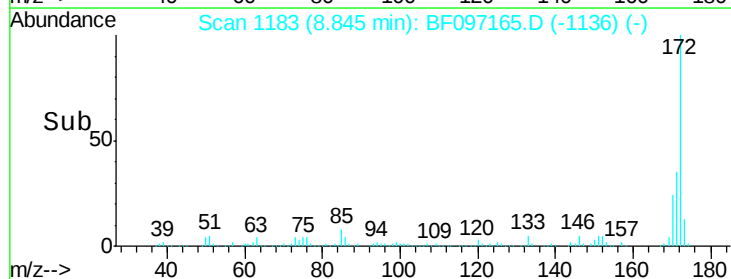
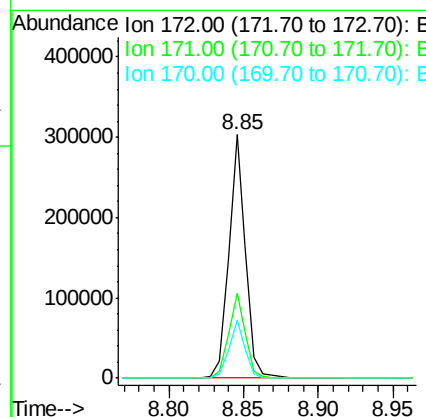
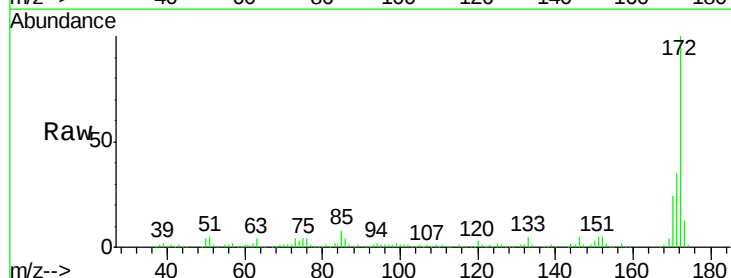
Instrument :
 BNA_F
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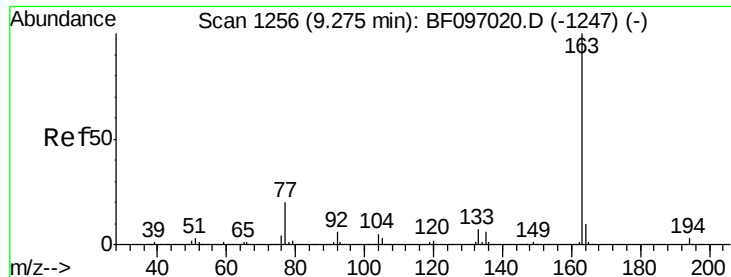
Tot Ion:330 Resp: 31688
 Ion Ratio Lower Upper
 330 100
 332 96.8 76.6 115.0
 141 40.9 31.4 47.2



#44
 2-Fluorobiphenyl
 Concen: 21.82 ng
 RT: 8.85 min Scan# 1183
 Delta R.T. -0.02 min
 Lab File: BF097165.D
 Acq: 28 Jul 2017 20:31

Tgt Ion:172 Resp: 239517
 Ion Ratio Lower Upper
 172 100
 171 35.0 29.6 44.4
 170 23.6 19.8 29.8

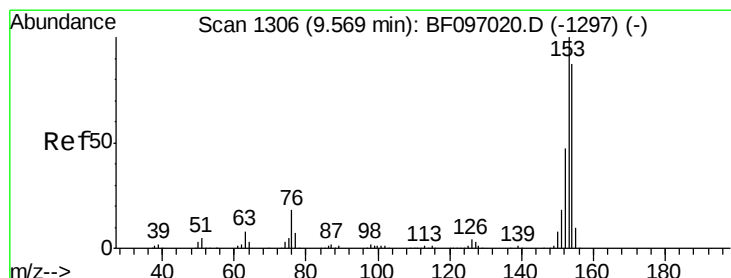
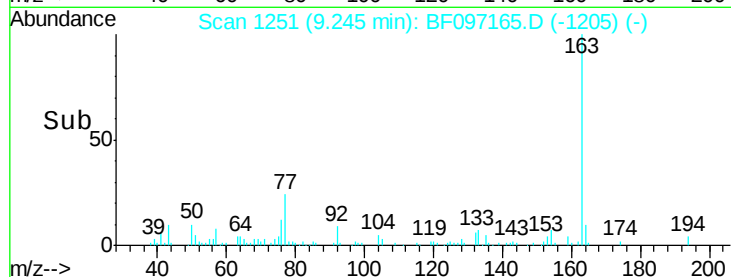
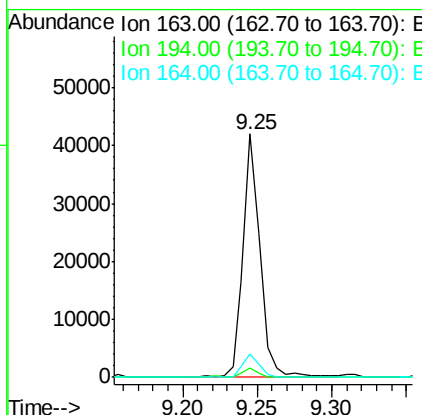
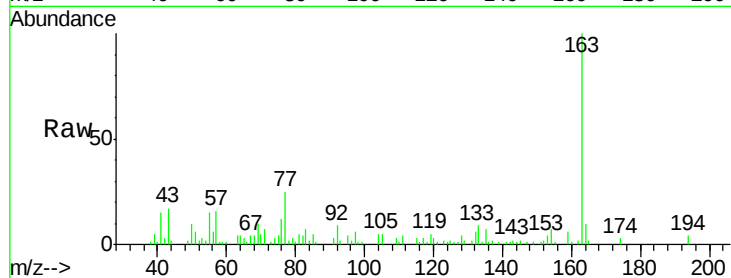




#49
Dimethylphthalate
Concen: 2.39 ng
RT: 9.25 min Scan# 1251
Delta R.T. -0.03 min
Lab File: BF097165.D
Acq: 28 Jul 2017 20:31

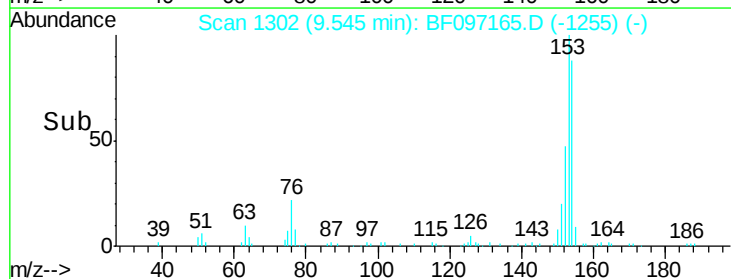
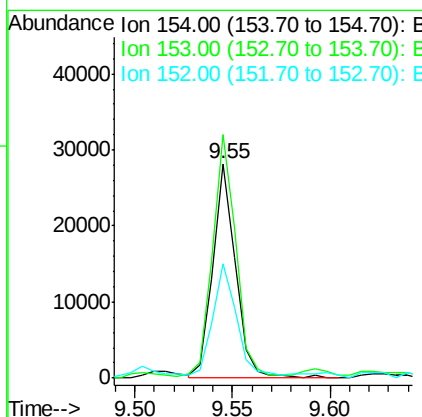
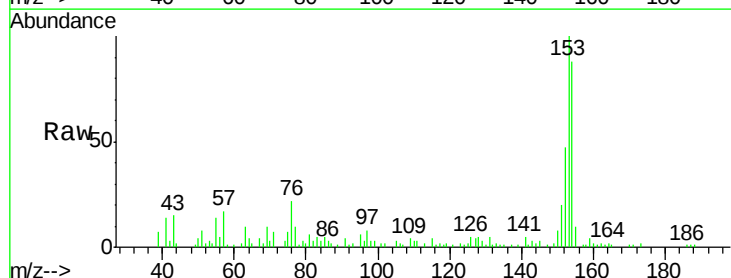
Instrument :
BNA_F
ClientSampleId :
HD-02-072617

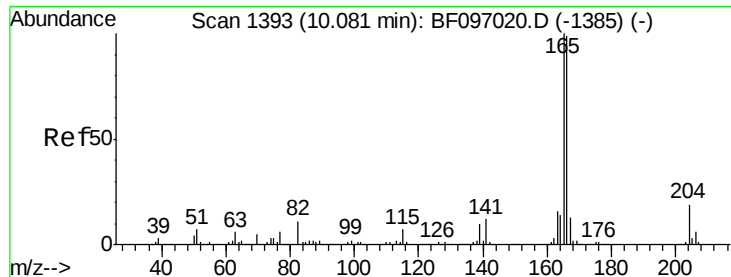
Tot Ion:163 Resp: 33759
Ion Ratio Lower Upper
163 100
194 3.7 2.6 4.0
164 9.7 8.4 12.6



#51
Acenaphthene
Concen: 2.16 ng
RT: 9.55 min Scan# 1302
Delta R.T. -0.02 min
Lab File: BF097165.D
Acq: 28 Jul 2017 20:31

Tgt Ion:154 Resp: 22906
Ion Ratio Lower Upper
154 100
153 113.5 90.5 135.7
152 53.0 43.6 65.4





#57

Fluorene

Concen: 2.53 ng

RT: 10.06 min Scan# 1389

Delta R.T. -0.02 min

Lab File: BF097165.D

Acq: 28 Jul 2017 20:31

Instrument :

BNA_F

ClientSampleId :

HD-02-072617

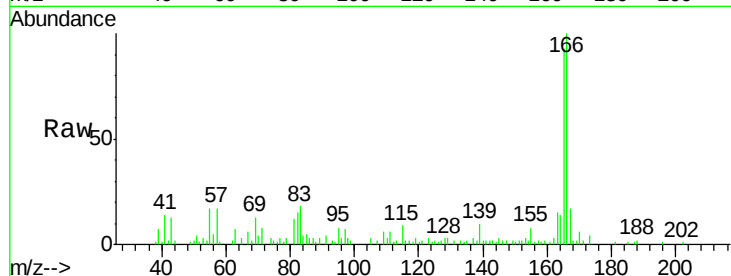
Tot Ion:166 Resp: 26844

Ion Ratio Lower Upper

166 100

165 93.3 78.8 118.2

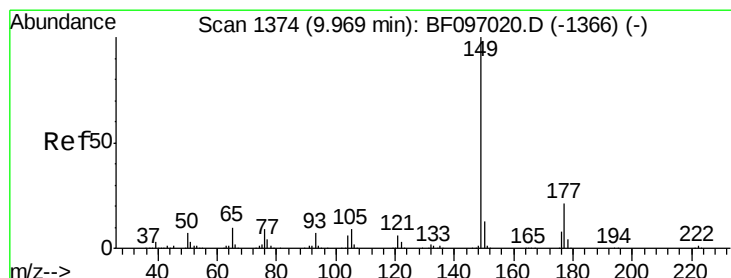
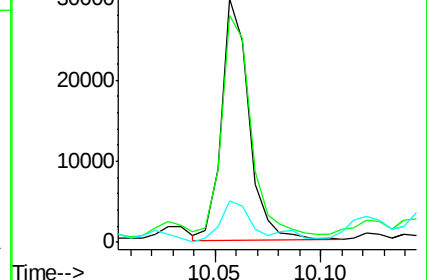
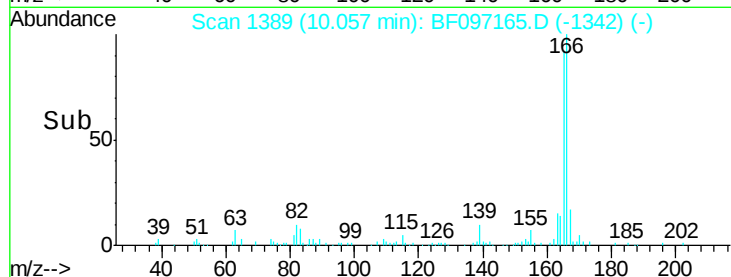
167 17.1 10.6 16.0#



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



#59

Diethylphthalate

Concen: 2.76 ng

RT: 9.95 min Scan# 1370

Delta R.T. -0.02 min

Lab File: BF097165.D

Acq: 28 Jul 2017 20:31

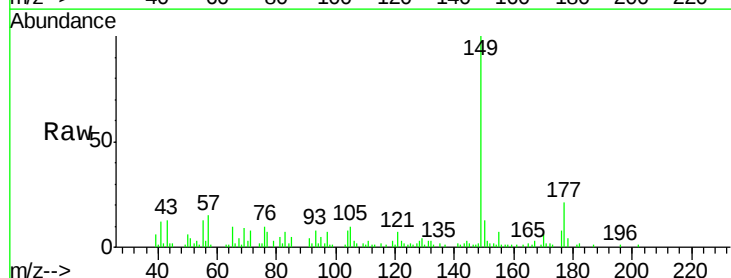
Tgt Ion:149 Resp: 35866

Ion Ratio Lower Upper

149 100

177 20.8 16.7 25.1

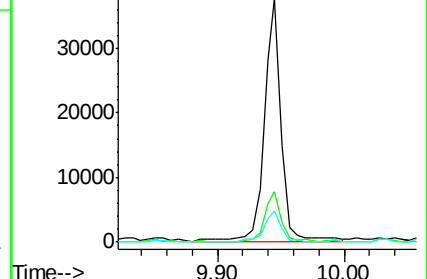
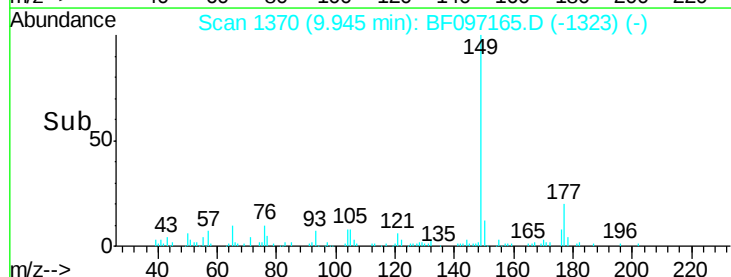
150 12.7 10.2 15.2

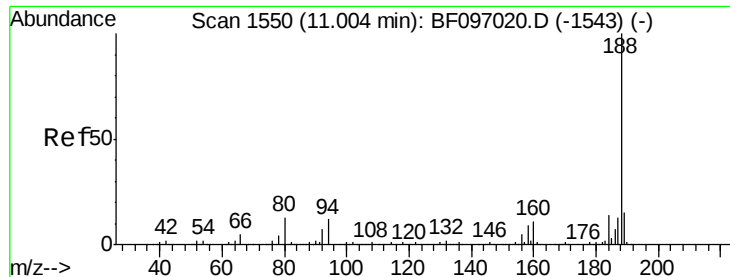


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 177.00 (176.70 to 177.70): E

Ion 150.00 (149.70 to 150.70): E

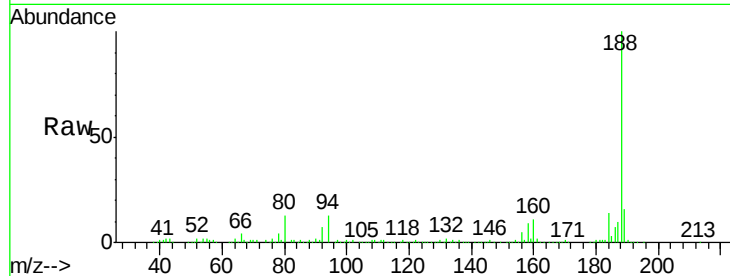




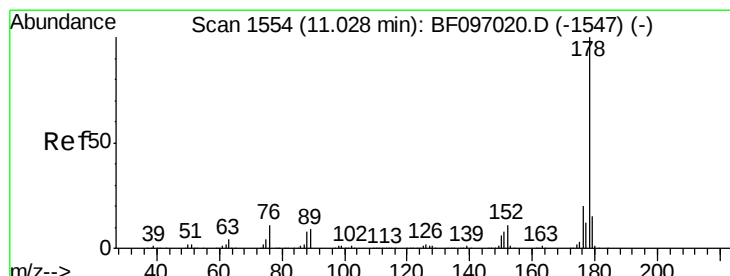
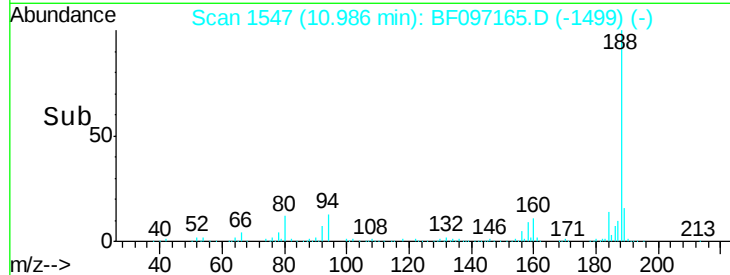
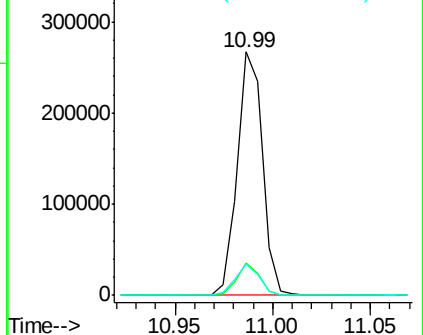
#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 10.99 min Scan# 1547
Delta R.T. -0.02 min
Lab File: BF097165.D
Acq: 28 Jul 2017 20:31

Instrument :
BNA_F
ClientSampleId :
HD-02-072617

Tot Ion:188 Resp: 238330
Ion Ratio Lower Upper
188 100
94 13.3 9.4 14.2
80 12.6 10.2 15.2

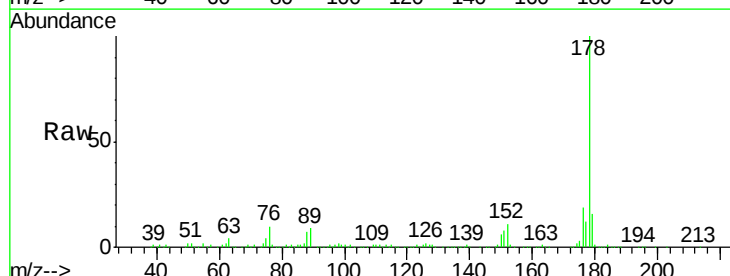


Abundance Ion 188.00 (187.70 to 188.70): E
Ion 94.00 (93.70 to 94.70): BF0
Ion 80.00 (79.70 to 80.70): BF0

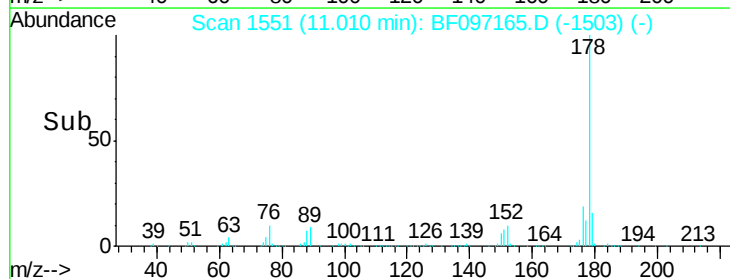
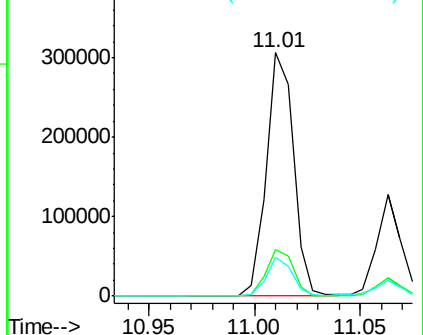


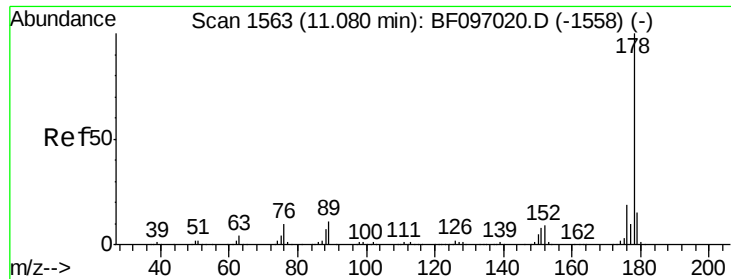
#70
Phenanthrene
Concen: 21.56 ng
RT: 11.01 min Scan# 1551
Delta R.T. -0.02 min
Lab File: BF097165.D
Acq: 28 Jul 2017 20:31

Tgt Ion:178 Resp: 275291
Ion Ratio Lower Upper
178 100
176 19.1 16.2 24.4
179 15.9 12.6 19.0



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

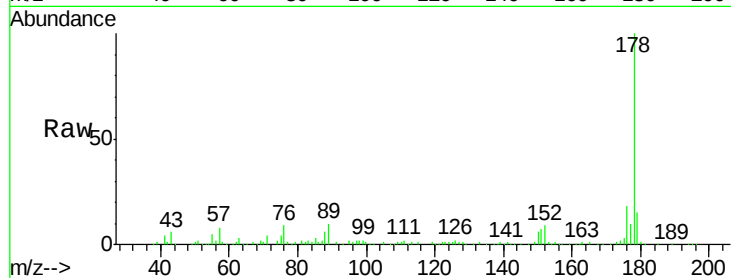




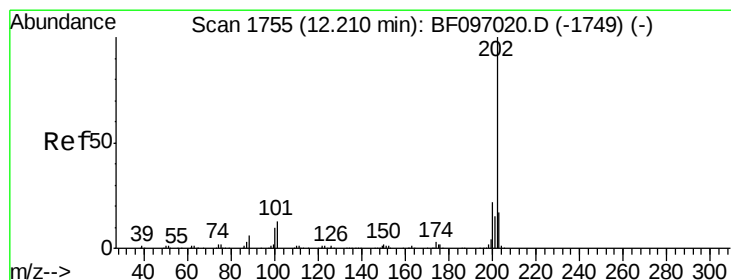
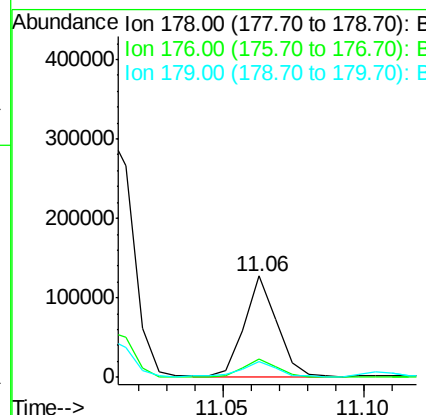
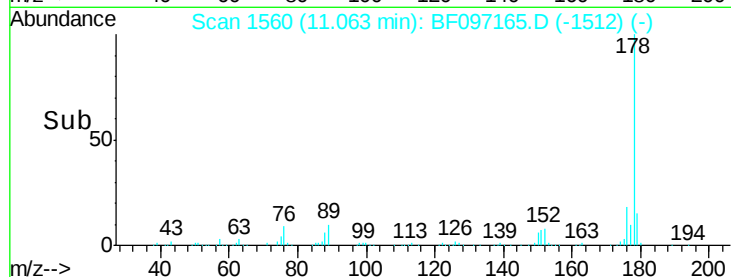
#71
 Anthracene
 Concen: 7.69 ng
 RT: 11.06 min Scan# 1560
 Delta R.T. -0.02 min
 Lab File: BF097165.D
 Acq: 28 Jul 2017 20:31

Instrument :
 BNA_F
 ClientSampleId :
 HD-02-072617

Tot Ion:178 Resp: 100609
 Ion Ratio Lower Upper
 178 100
 176 18.4 15.8 23.8
 179 15.5 12.7 19.1

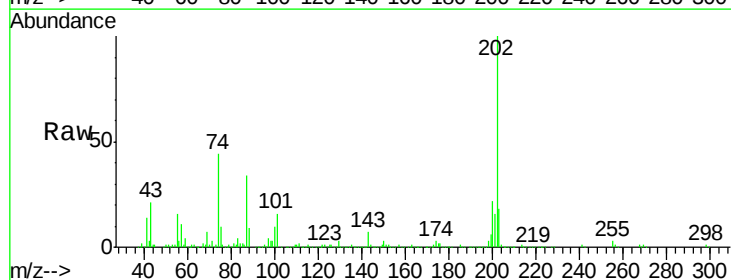


Abundance Ion 178.00 (177.70 to 178.70): E
 Ion 176.00 (175.70 to 176.70): E
 Ion 179.00 (178.70 to 179.70): E

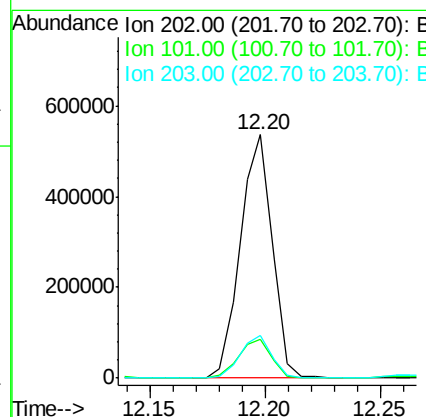
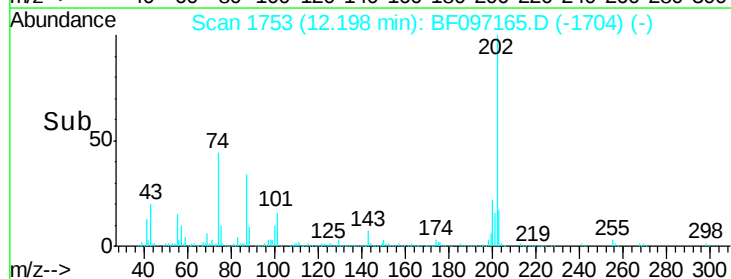


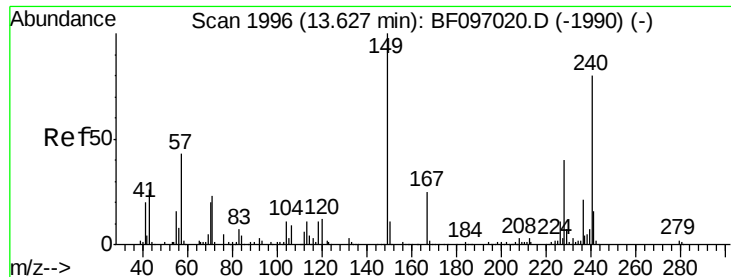
#74
 Fluoranthene
 Concen: 41.22 ng
 RT: 12.20 min Scan# 1753
 Delta R.T. -0.01 min
 Lab File: BF097165.D
 Acq: 28 Jul 2017 20:31

Tgt Ion:202 Resp: 515717
 Ion Ratio Lower Upper
 202 100
 101 15.9 0.0 33.2
 203 17.5 0.0 38.1



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: 13.62 min Scan# 1994

Delta R.T. -0.01 min

Lab File: BF097165.D

Acq: 28 Jul 2017 20:31

Instrument :

BNA_F

ClientSampleId :

HD-02-072617

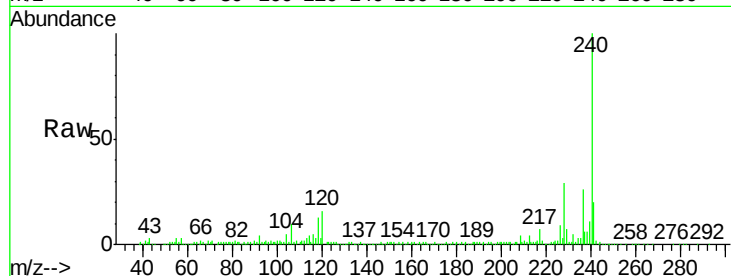
Tot Ion:240 Resp: 211553

Ion Ratio Lower Upper

240 100

120 15.6 5.8 8.8#

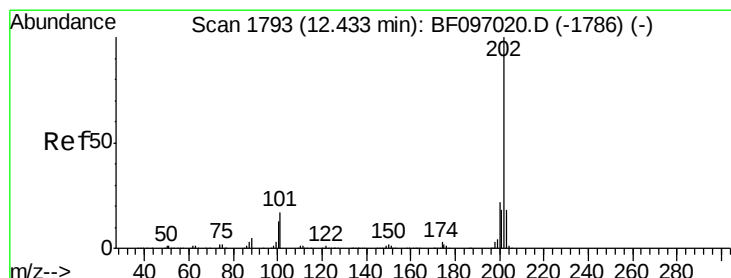
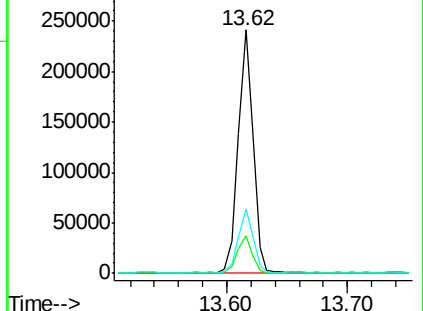
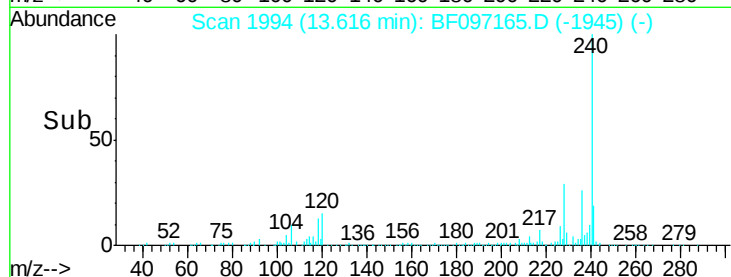
236 26.4 20.5 30.7



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: 28.70 ng

RT: 12.42 min Scan# 1791

Delta R.T. -0.01 min

Lab File: BF097165.D

Acq: 28 Jul 2017 20:31

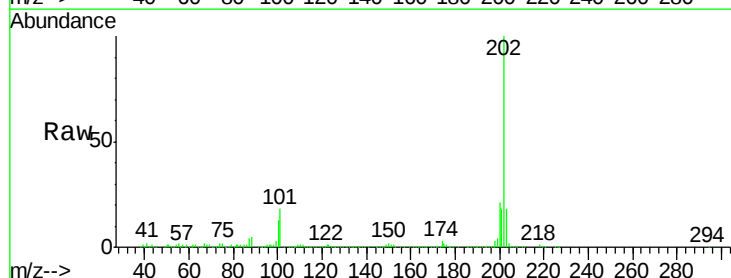
Tgt Ion:202 Resp: 497135

Ion Ratio Lower Upper

202 100

200 21.5 17.6 26.4

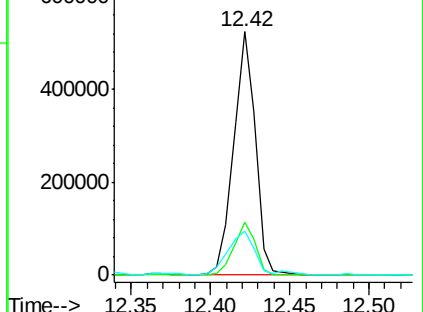
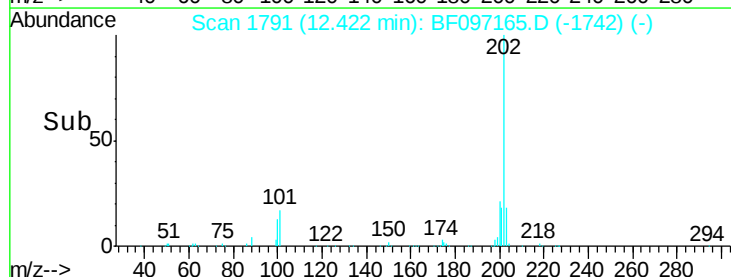
203 18.1 14.4 21.6

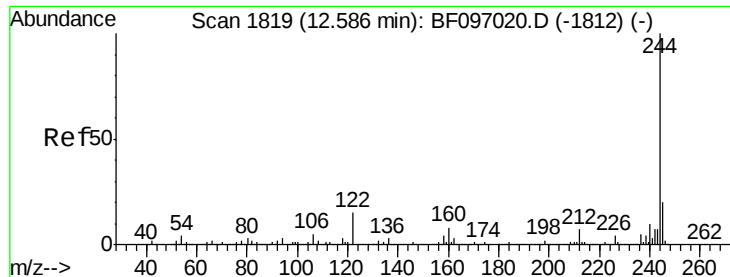


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 13.06 ng

RT: 12.57 min Scan# 1816

Delta R.T. -0.02 min

Lab File: BF097165.D

Acq: 28 Jul 2017 20:31

Instrument :

BNA_F

ClientSampleId :

HD-02-072617

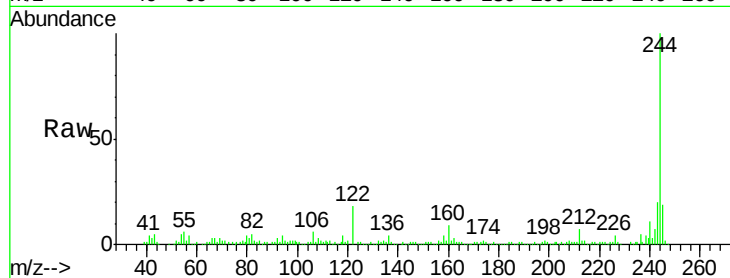
Tot Ion:244 Resp: 135523

Ion Ratio Lower Upper

244 100

212 6.7 6.0 9.0

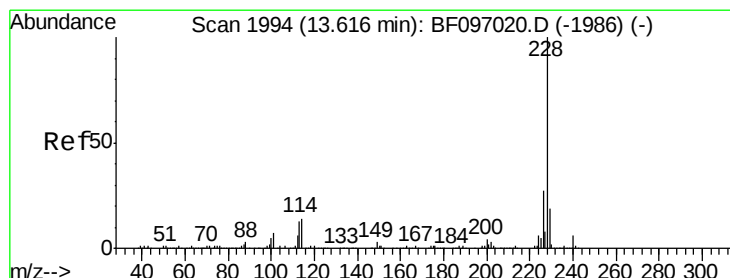
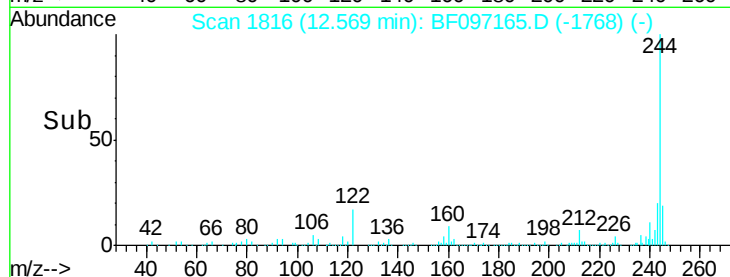
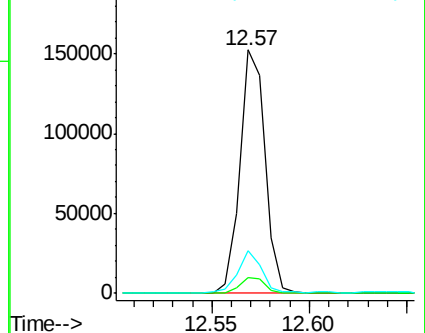
122 17.7 10.3 15.5#



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: 19.61 ng

RT: 13.60 min Scan# 1992

Delta R.T. -0.01 min

Lab File: BF097165.D

Acq: 28 Jul 2017 20:31

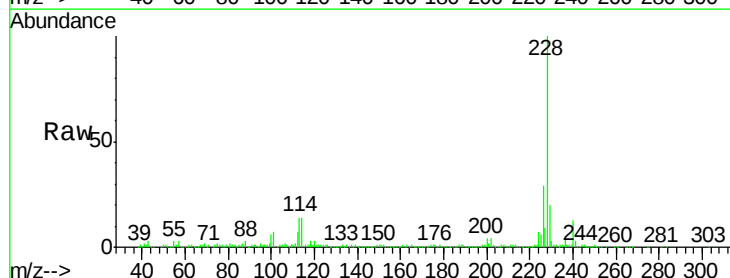
Tgt Ion:228 Resp: 268392

Ion Ratio Lower Upper

228 100

226 28.7 22.6 33.8

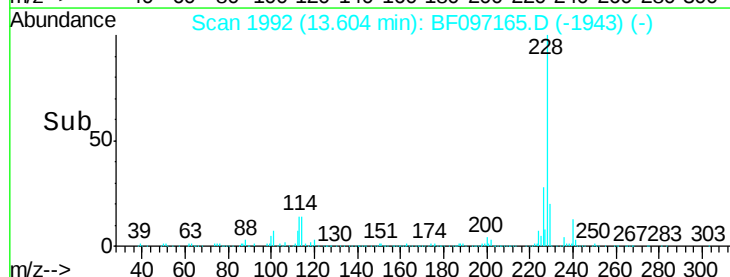
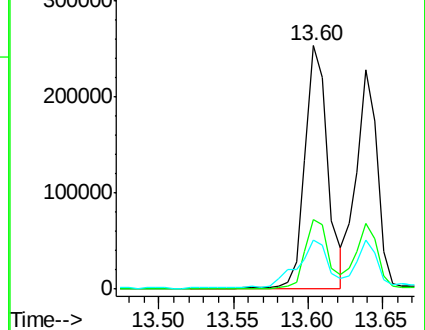
229 20.3 16.3 24.5

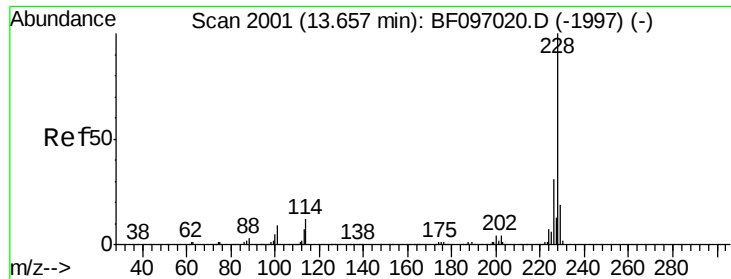


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#82

Chrysene

Concen: 16.85 ng

RT: 13.64 min Scan# 1998

Delta R.T. -0.02 min

Lab File: BF097165.D

Acq: 28 Jul 2017 20:31

Instrument :

BNA_F

ClientSampleId :

HD-02-072617

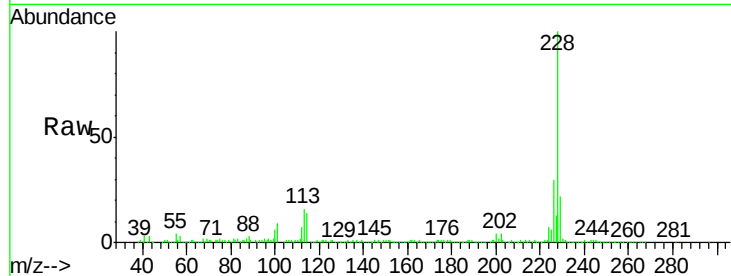
Tot Ion:228 Resp: 225267

Ion Ratio Lower Upper

228 100

226 30.2 24.9 37.3

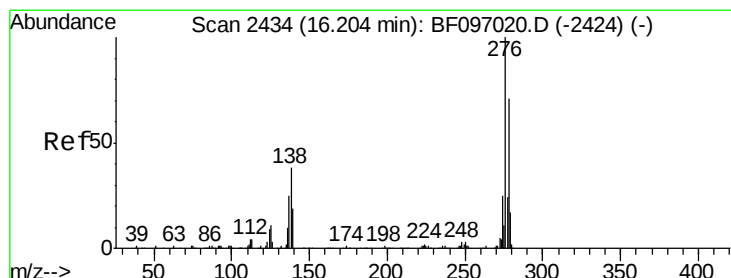
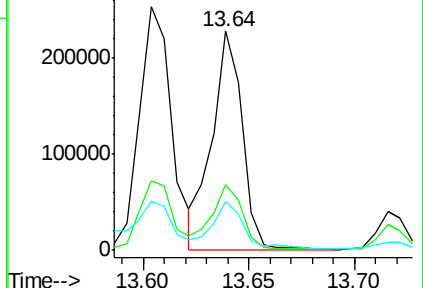
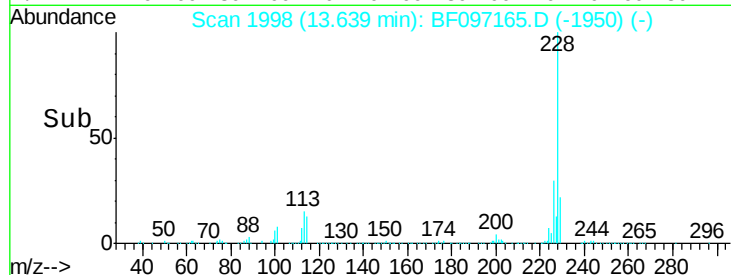
229 22.3 15.8 23.6



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: 8.71 ng

RT: 16.19 min Scan# 2432

Delta R.T. -0.01 min

Lab File: BF097165.D

Acq: 28 Jul 2017 20:31

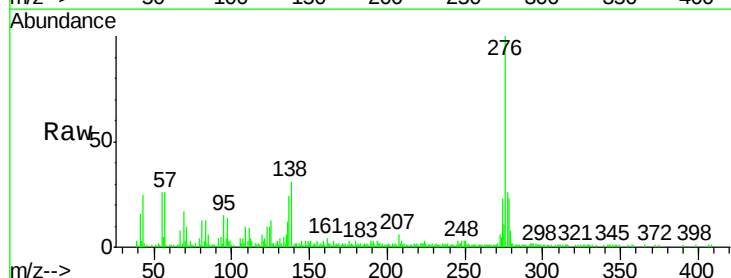
Tgt Ion:276 Resp: 99777

Ion Ratio Lower Upper

276 100

138 29.2 27.8 41.6

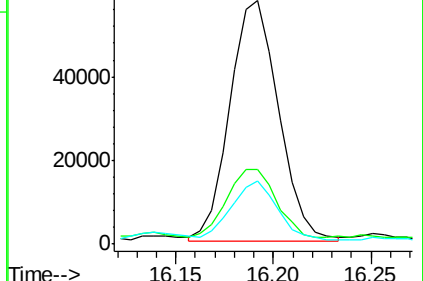
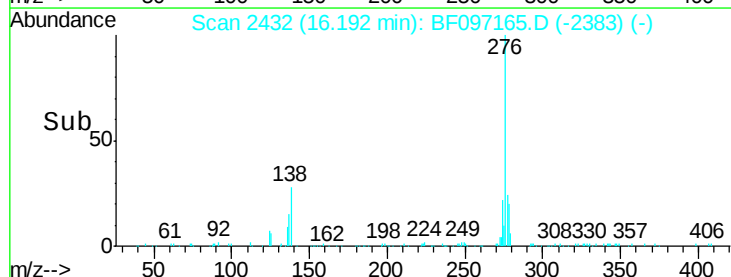
277 23.3 20.2 30.4

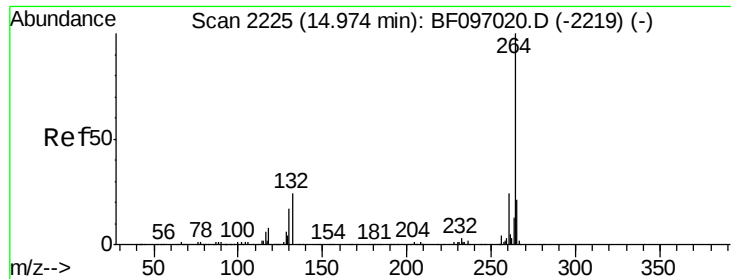


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

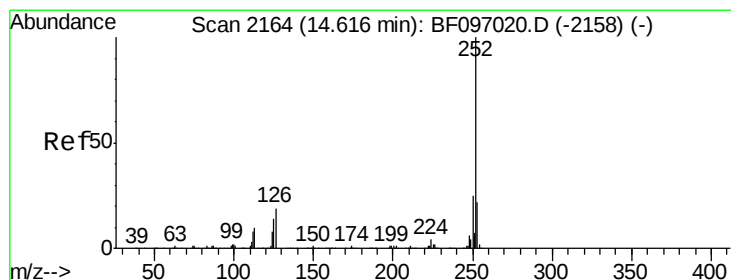
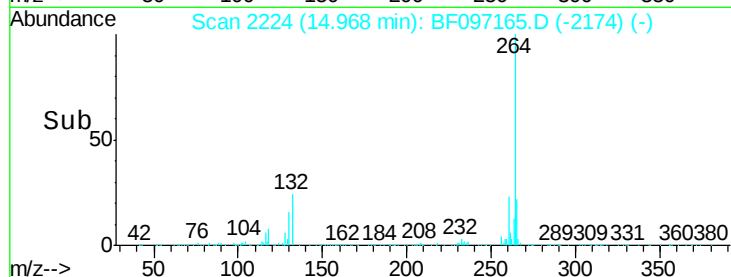
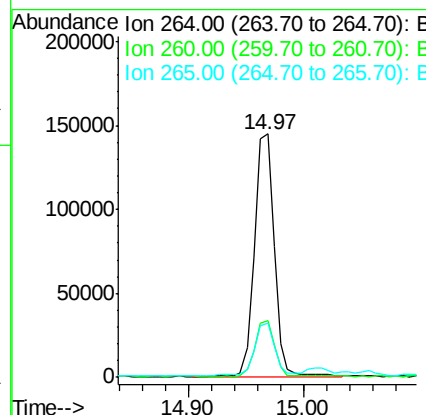
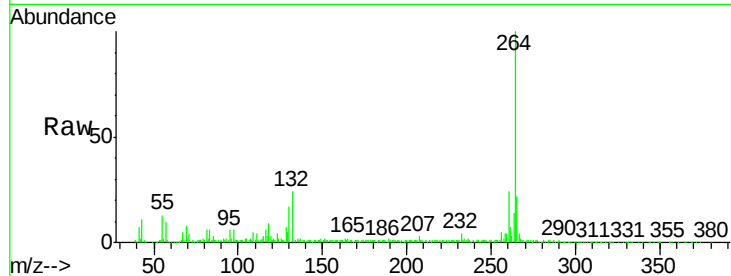




#86
Pervlene-d12
Concen: 20.00 ng
RT: 14.97 min Scan# 2224
Delta R.T. -0.01 min
Lab File: BF097165.D
Acq: 28 Jul 2017 20:31

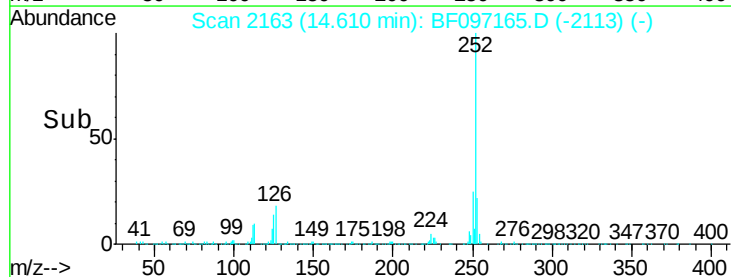
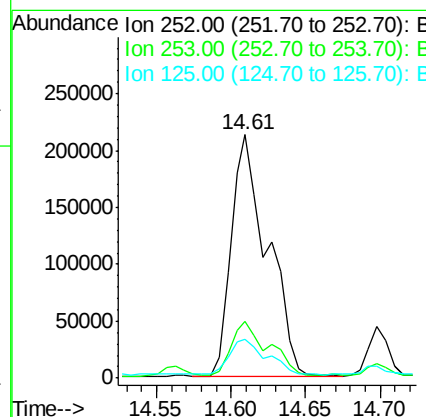
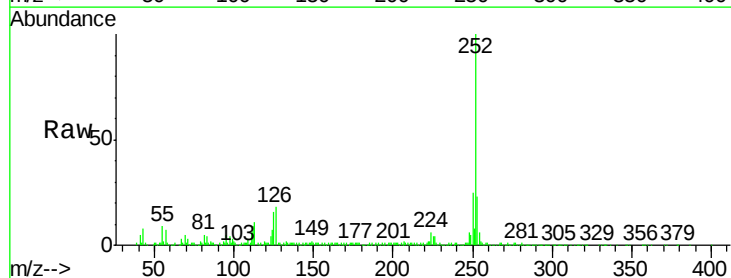
Instrument :
BNA_F
ClientSampleId :
HD-02-072617

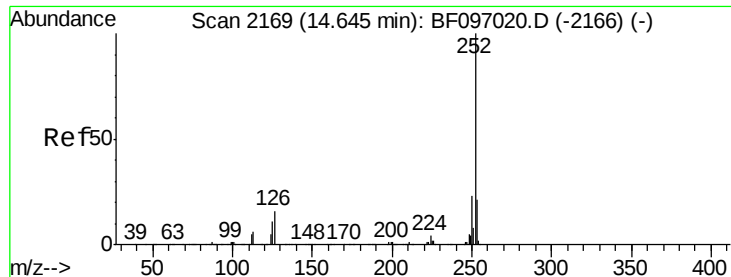
Tot Ion:264 Resp: 172783
Ion Ratio Lower Upper
264 100
260 23.5 19.5 29.3
265 22.3 17.2 25.8



#87
Benzo(b)fluoranthene
Concen: 34.87 ng
RT: 14.61 min Scan# 2163
Delta R.T. -0.01 min
Lab File: BF097165.D
Acq: 28 Jul 2017 20:31

Tgt Ion:252 Resp: 362143
Ion Ratio Lower Upper
252 100
253 23.1 18.1 27.1
125 15.7 9.8 14.8#

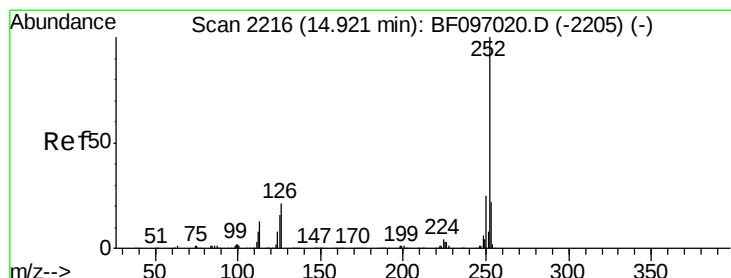
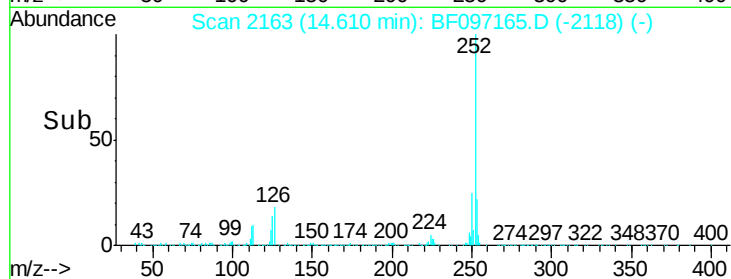
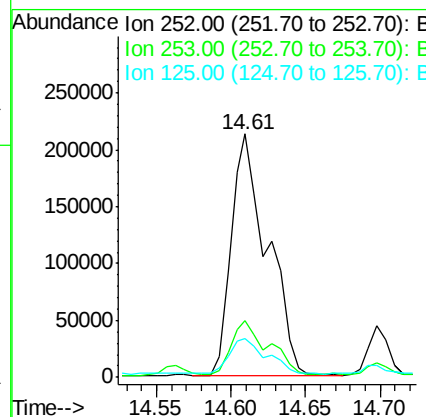
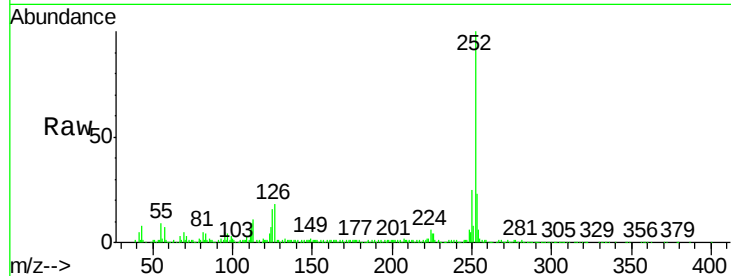




#88
Benzo(k)fluoranthene
Concen: 36.59 ng
RT: 14.61 min Scan# 2163
Delta R.T. -0.04 min
Lab File: BF097165.D
Acq: 28 Jul 2017 20:31

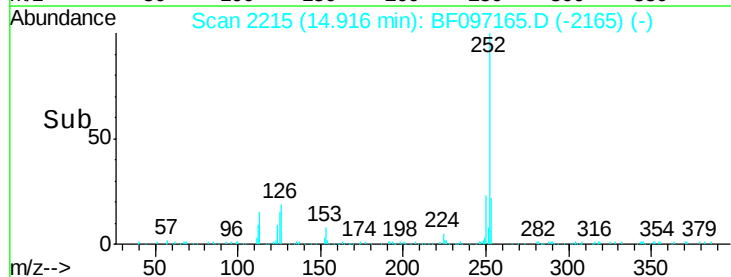
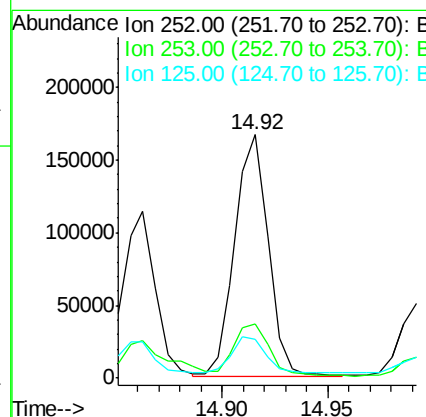
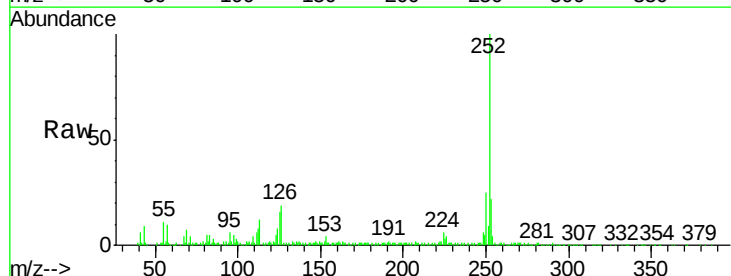
Instrument :
BNA_F
ClientSampleId :
HD-02-072617

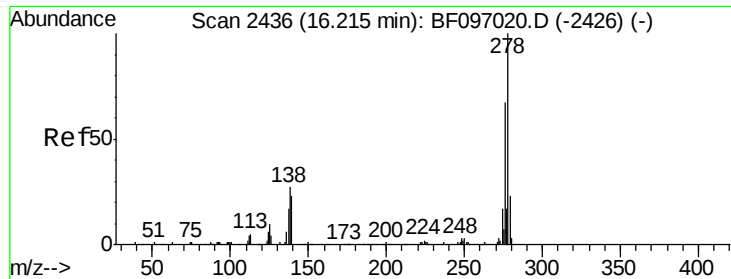
Tot Ion:252 Resp: 362143
Ion Ratio Lower Upper
252 100
253 23.1 18.4 27.6
125 15.7 13.1 19.7



#89
Benzo(a)pyrene
Concen: 19.27 ng
RT: 14.92 min Scan# 2215
Delta R.T. -0.01 min
Lab File: BF097165.D
Acq: 28 Jul 2017 20:31

Tgt Ion:252 Resp: 183193
Ion Ratio Lower Upper
252 100
253 22.5 17.5 26.3
125 15.9 11.0 16.4

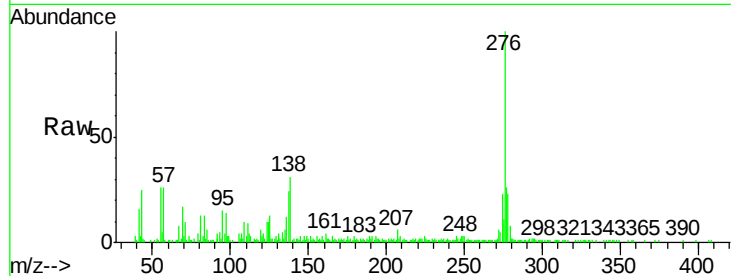




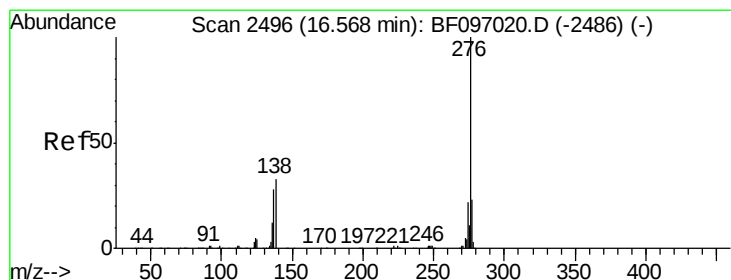
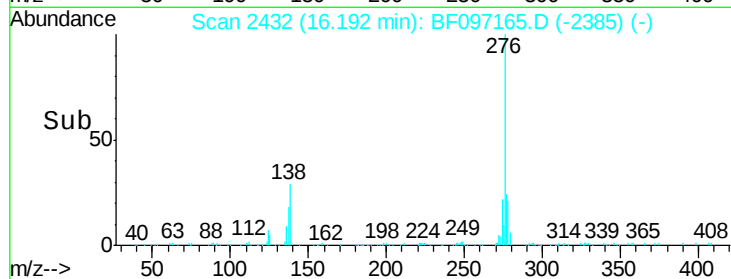
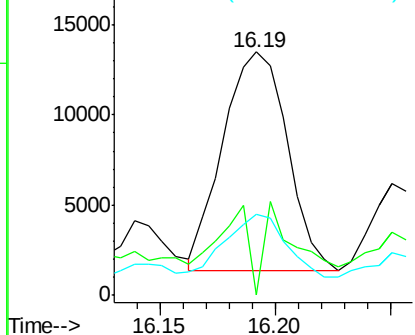
#90
Dibenzo(a,h)anthracene
Concen: 3.01 ng
RT: 16.19 min Scan# 2432
Delta R.T. -0.02 min
Lab File: BF097165.D
Acq: 28 Jul 2017 20:31

Instrument :
BNA_F
ClientSampleId :
HD-02-072617

Tot Ion:278 Resp: 23471
Ion Ratio Lower Upper
278 100
139 0.0 16.6 24.8#
279 33.1 19.3 28.9#

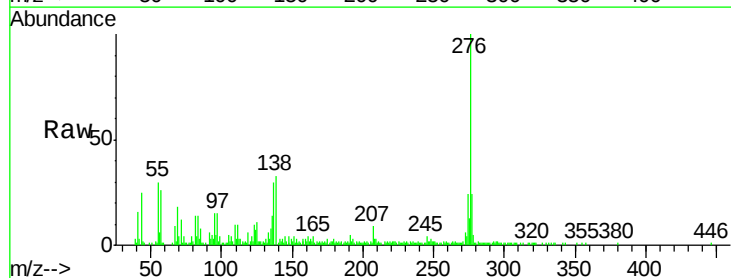


Abundance Ion 278.00 (277.70 to 278.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 279.00 (278.70 to 279.70): E



#91
Benzo(g,h,i)perylene
Concen: 11.21 ng
RT: 16.56 min Scan# 2494
Delta R.T. -0.01 min
Lab File: BF097165.D
Acq: 28 Jul 2017 20:31

Tgt Ion:276 Resp: 91644
Ion Ratio Lower Upper
276 100
277 24.4 18.6 28.0
138 33.1 25.4 38.0



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

