

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF030117\
 Data File : BF093298.D
 Acq On : 1 Mar 2017 19:19
 Operator : SJ/MA
 Sample : I2003-02
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 HY-SB421B

Quant Time: Mar 02 00:04:32 2017
 Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF013017.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Feb 17 17:31:55 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.81	152	132480	20.00	ng	-0.05
21) Naphthalene-d8	8.09	136	570807	20.00	ng	-0.06
38) Acenaphthene-d10	9.84	164	259722	20.00	ng	-0.06
63) Phenanthrene-d10	11.33	188	483463	20.00	ng	-0.05
75) Chrysene-d12	13.97	240	373517	20.00	ng	-0.05
86) Perylene-d12	15.39	264	284278	20.00	ng	-0.06

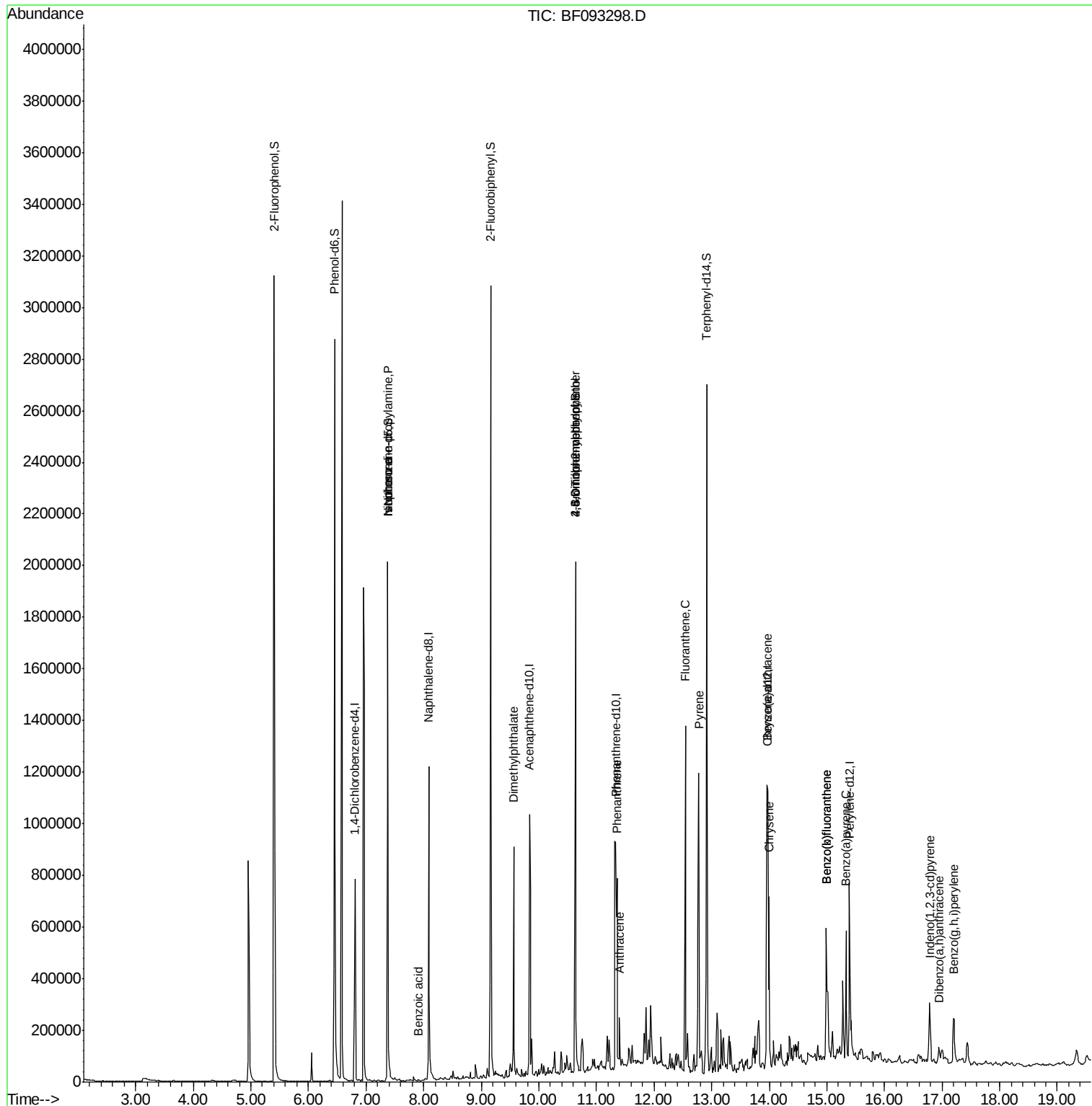
System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.40	112	915681	118.58	ng	-0.05
7) Phenol-d6	6.45	99	1118919	112.62	ng	-0.03
23) Nitrobenzene-d5	7.38	82	793140	77.38	ng	-0.05
41) 2,4,6-Tribromophenol	10.64	330	223155	118.80	ng	-0.05
44) 2-Fluorobiphenyl	9.16	172	1154132	80.51	ng	-0.06
78) Terphenyl-d14	12.91	244	1004009	63.16	ng	-0.06

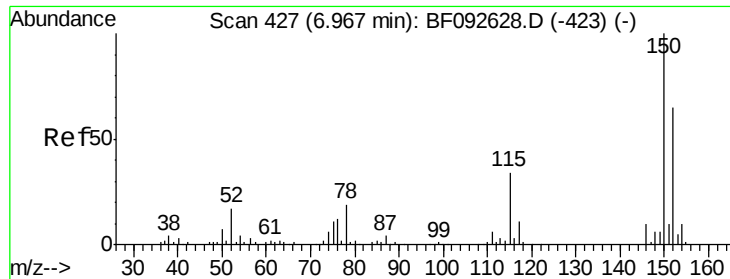
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
19) n-Nitroso-di-n-propylamine	7.38	70	107893	17.06	ng	# 77
25) Isophorone	7.38	82	790713	41.40	ng	# 65
32) Benzoic acid	7.92	122	295	7.22	ng	# 31
49) Dimethylphthalate	9.56	163	321089	18.35	ng	98
64) 4,6-Dinitro-2-methylphenol	10.64	198	481	2.82	ng	# 1
66) 4-Bromophenyl-phenylether	10.64	248	17778	3.52	ng	# 1
70) Phenanthrene	11.36	178	377044	13.61	ng	98
71) Anthracene	11.40	178	78404	2.82	ng	98
74) Fluoranthene	12.55	202	553865	19.39	ng	94
77) Pyrene	12.77	202	516833	18.49	ng	98
80) Benzo(a)anthracene	13.96	228	252856	11.07	ng	99
82) Chrysene	14.00	228	239553	11.20	ng	98
85) Indeno(1,2,3-cd)pyrene	16.79	276	144203	8.70	ng	97
87) Benzo(b)fluoranthene	14.99	252	366365	19.58	ng	98
88) Benzo(k)fluoranthene	14.99	252	366365	22.68	ng	97
89) Benzo(a)pyrene	15.33	252	220668	13.63	ng	99
90) Dibenzo(a,h)anthracene	16.95	278	31849	2.43	ng	96
91) Benzo(g,h,i)perylene	17.21	276	136797	10.35	ng	# 92

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

```
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Sample    : I2003-02  
Misc      :  
ALS Vial  : 12 Sample Multiplier: 1
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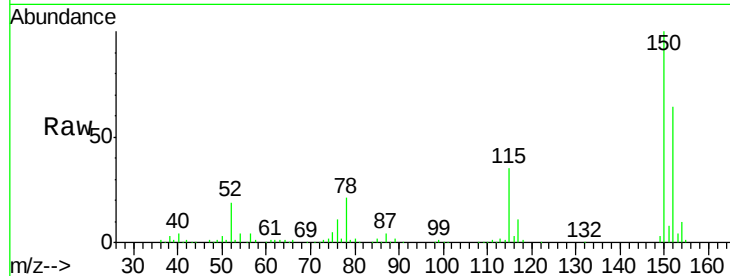




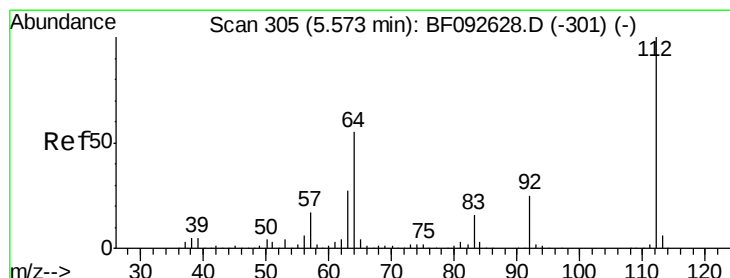
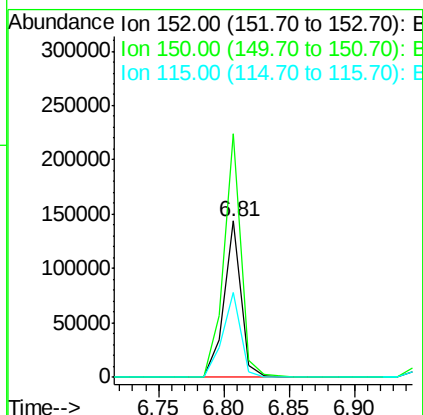
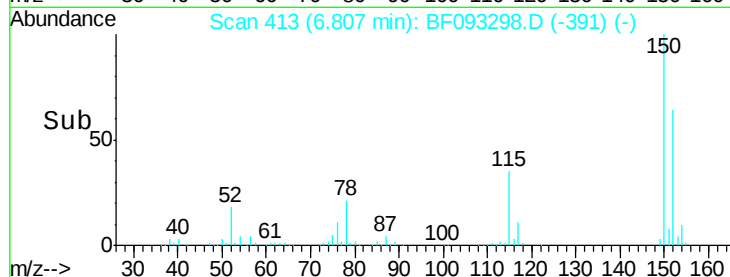
#1
 1,4-Dichlorobenzene-d4
 Concen: 20.00 ng
 RT: 6.81 min Scan# 413
 Delta R.T. -0.05 min
 Lab File: BF093298.D
 Acq: 1 Mar 2017 19:19

Instrument :
 BNA_F
 ClientSampleId :
 HY-SB421B

Tgt Ion:152 Resp: 132480
 Ion Ratio Lower Upper
 152 100
 150 155.7 124.9 187.3
 115 54.4 46.0 69.0

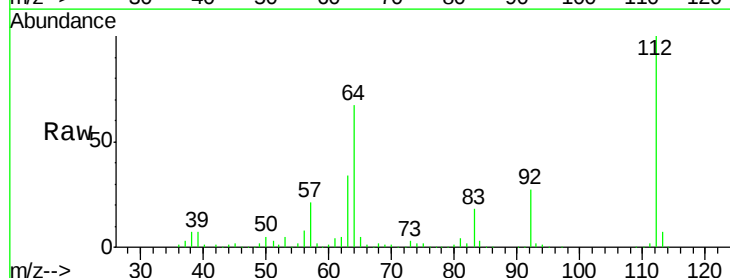


Abundance Ion 152.00 (151.70 to 152.70): E
 Ion 150.00 (149.70 to 150.70): E
 Ion 115.00 (114.70 to 115.70): E

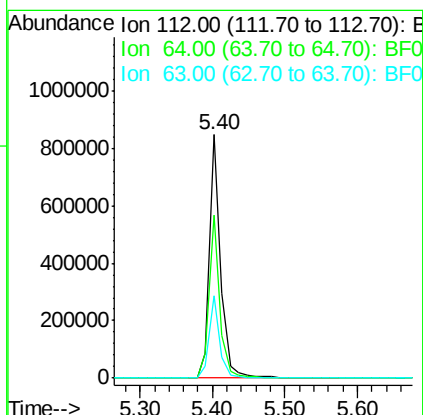
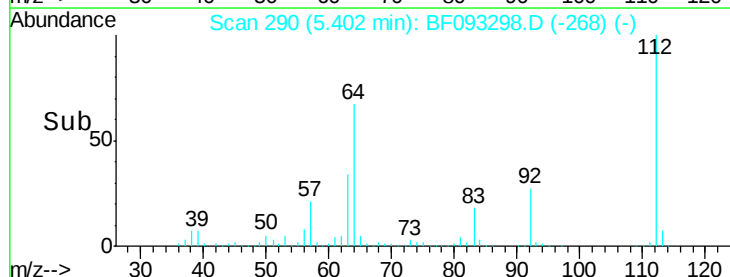


#5
 2-Fluorophenol
 Concen: 118.58 ng
 RT: 5.40 min Scan# 290
 Delta R.T. -0.05 min
 Lab File: BF093298.D
 Acq: 1 Mar 2017 19:19

Tgt Ion:112 Resp: 915681
 Ion Ratio Lower Upper
 112 100
 64 67.1 46.1 69.1
 63 33.6 23.8 35.6



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: 112.62 ng

RT: 6.45 min Scan# 382

Delta R.T. -0.03 min

Lab File: BF093298.D

Acq: 1 Mar 2017 19:19

Instrument :

BNA_F

ClientSampleId :

HY-SB421B

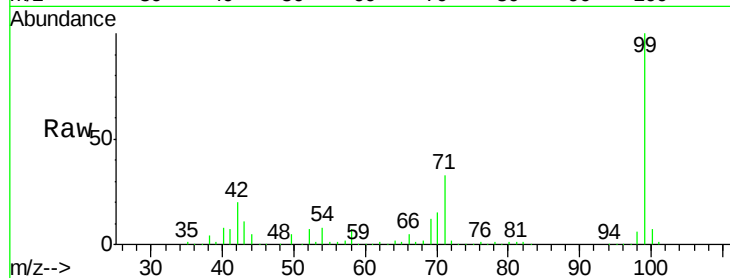
Tgt Ion: 99 Resp: 1118919

Ion Ratio Lower Upper

99 100

42 20.2 15.6 23.4

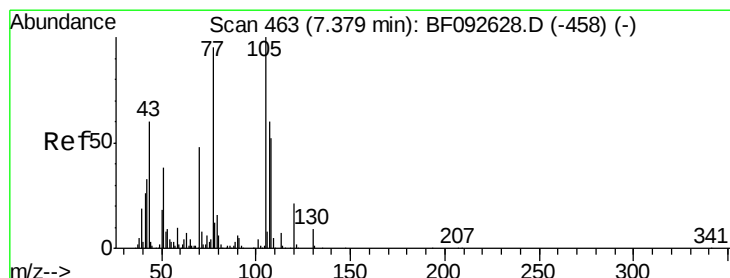
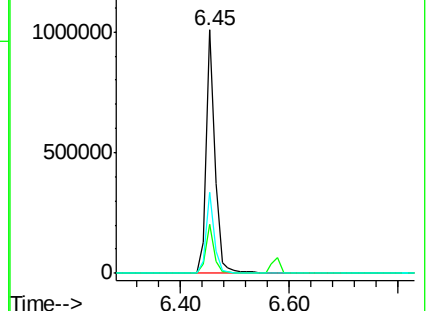
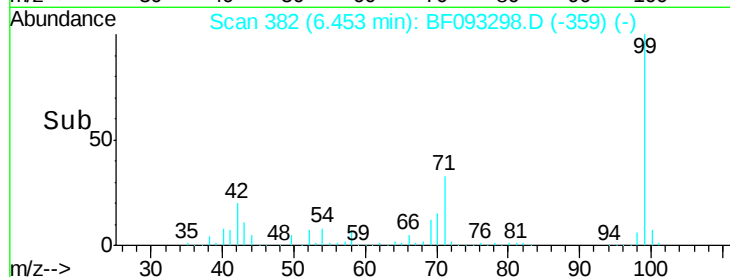
71 33.1 27.5 41.3



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



#19

n-Nitroso-di-n-propylamine

Concen: 17.06 ng

RT: 7.38 min Scan# 463

Delta R.T. 0.10 min

Lab File: BF093298.D

Acq: 1 Mar 2017 19:19

Tgt Ion: 70 Resp: 107893

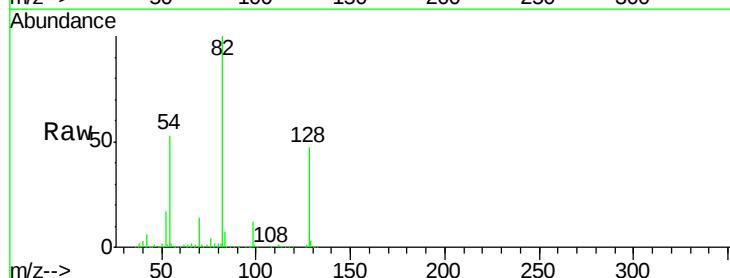
Ion Ratio Lower Upper

70 100

42 46.7 49.4 74.0#

101 0.0 7.4 11.2#

130 2.3 14.2 21.4#

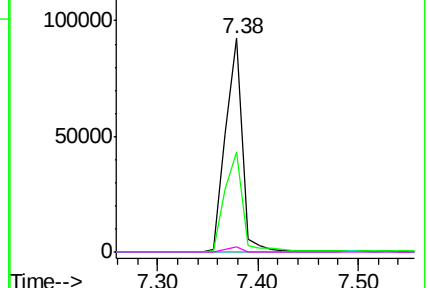
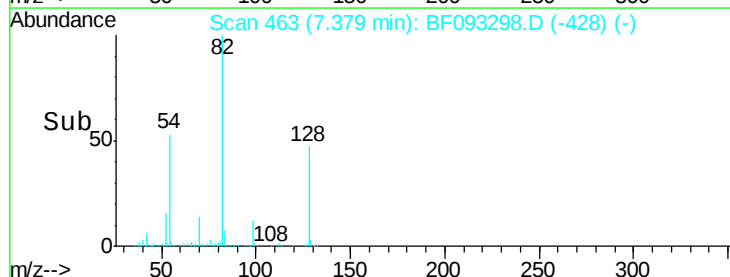


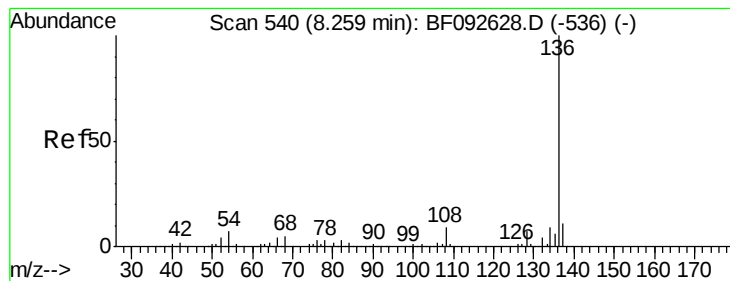
Abundance Ion 70.00 (69.70 to 70.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 101.00 (100.70 to 101.70): E

Ion 130.00 (129.70 to 130.70): E





#21

Naphthalene-d8

Concen: 20.00 ng

RT: 8.09 min Scan# 525

Delta R.T. -0.06 min

Lab File: BF093298.D

Acq: 1 Mar 2017 19:19

Instrument :

BNA_F

ClientSampleId :

HY-SB421B

Tgt Ion:136 Resp: 570807

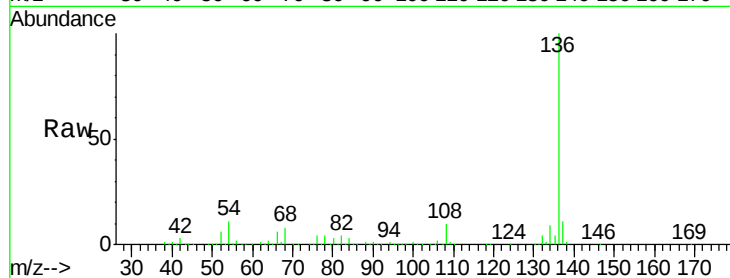
Ion Ratio Lower Upper

136 100

137 11.2 8.4 12.6

54 11.0 4.5 6.7#

68 8.0 3.6 5.4#

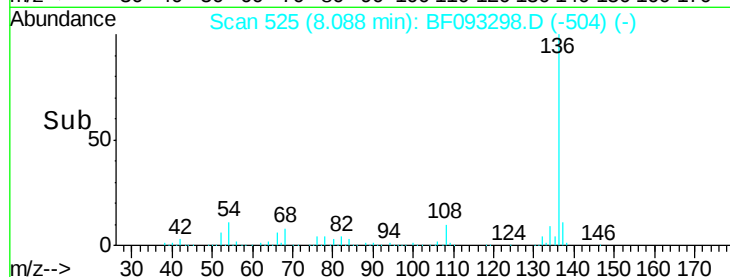


Abundance Ion 136.00 (135.70 to 136.70): E

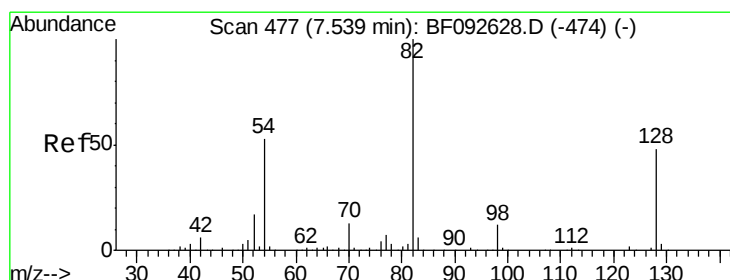
Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF0

Ion 68.00 (67.70 to 68.70): BF0



Time-->



#23

Nitrobenzene-d5

Concen: 77.38 ng

RT: 7.38 min Scan# 463

Delta R.T. -0.05 min

Lab File: BF093298.D

Acq: 1 Mar 2017 19:19

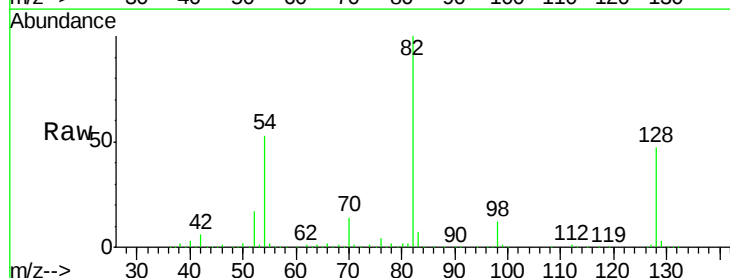
Tgt Ion: 82 Resp: 793140

Ion Ratio Lower Upper

82 100

128 47.1 34.6 52.0

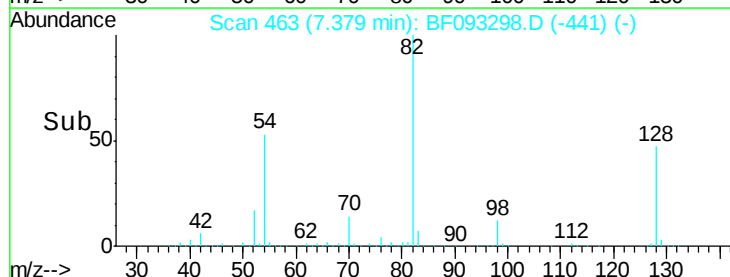
54 53.2 39.5 59.3



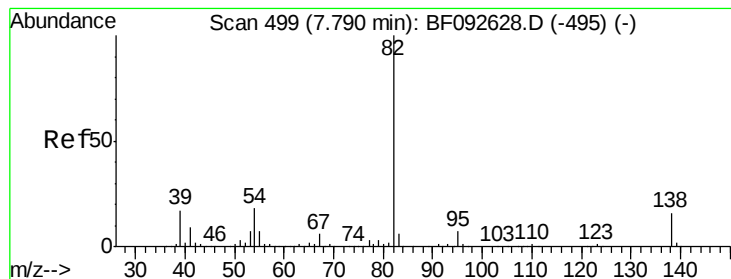
Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF0



Time-->



#25

Isophorone

Concen: 41.40 ng

RT: 7.38 min Scan# 463

Delta R.T. -0.31 min

Lab File: BF093298.D

Acq: 1 Mar 2017 19:19

Instrument :

BNA_F

ClientSampleId :

HY-SB421B

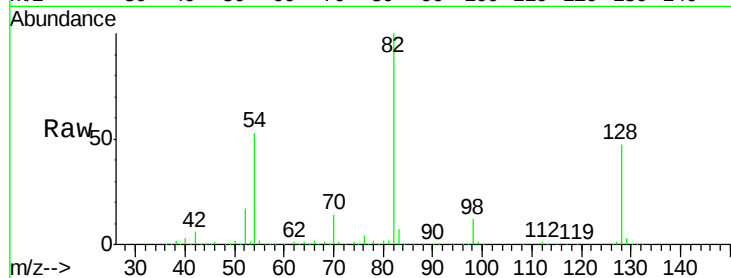
Tgt Ion: 82 Resp: 790713

Ion Ratio Lower Upper

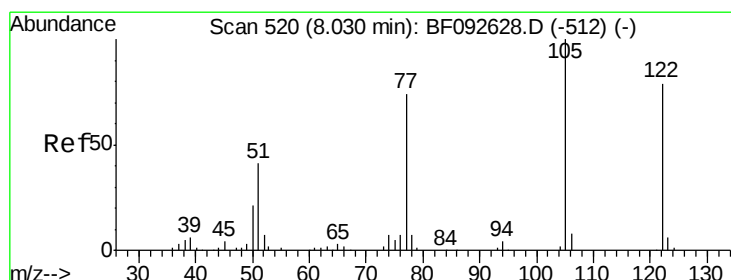
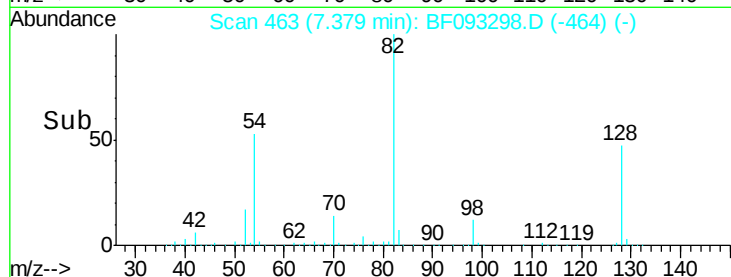
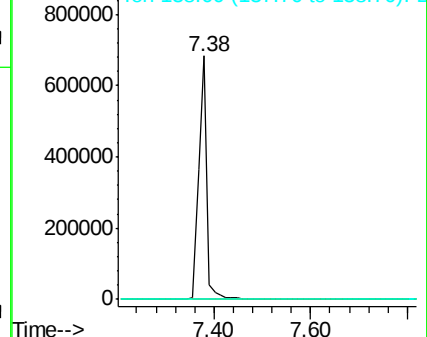
82 100

95 0.0 5.6 8.4#

138 0.0 14.6 22.0#



Abundance Ion 82.00 (81.70 to 82.70): BF0
Ion 95.00 (94.70 to 95.70): BF0
Ion 138.00 (137.70 to 138.70): BF0



#32

Benzoic acid

Concen: 7.22 ng

RT: 7.92 min Scan# 510

Delta R.T. -0.01 min

Lab File: BF093298.D

Acq: 1 Mar 2017 19:19

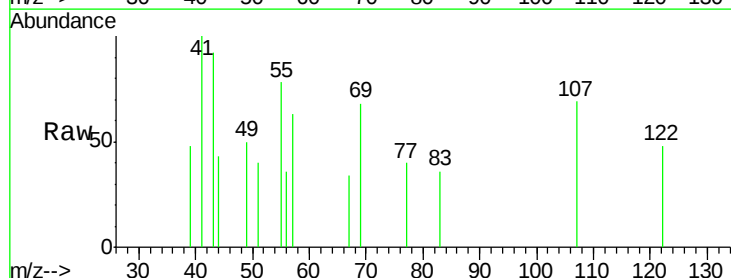
Tgt Ion: 122 Resp: 295

Ion Ratio Lower Upper

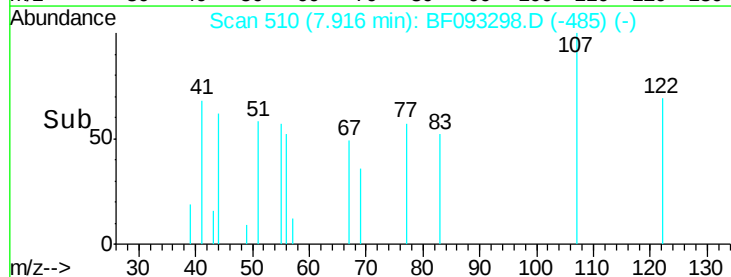
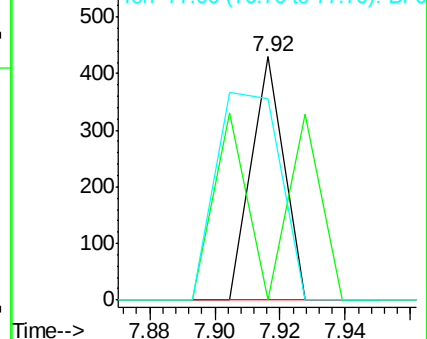
122 100

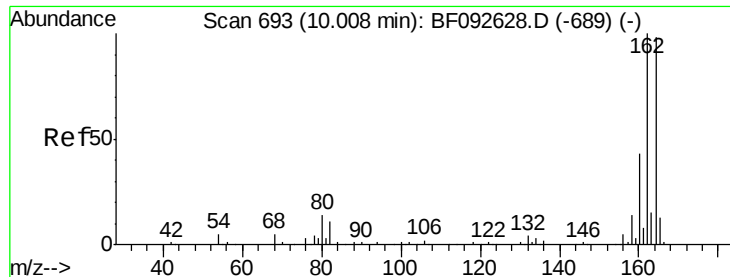
105 0.0 107.2 147.2#

77 82.6 74.5 114.5



Abundance Ion 122.00 (121.70 to 122.70): E
Ion 105.00 (104.70 to 105.70): E
Ion 77.00 (76.70 to 77.70): BF0

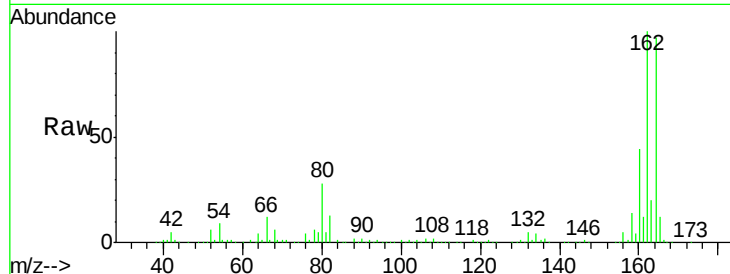




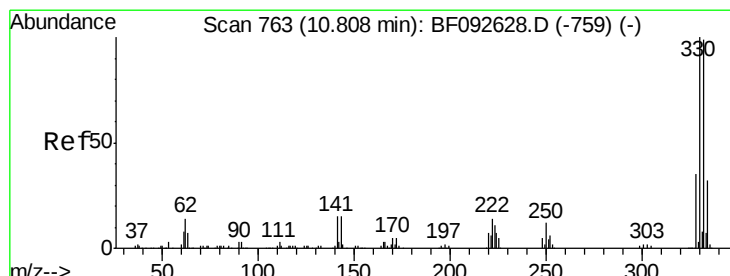
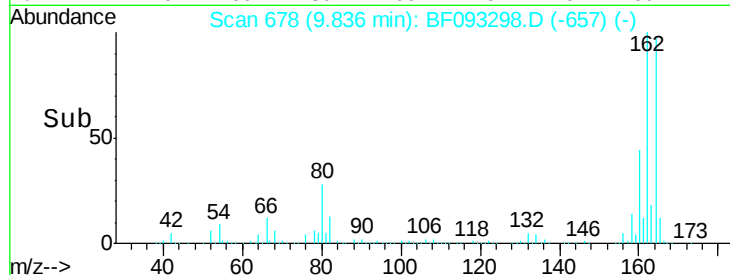
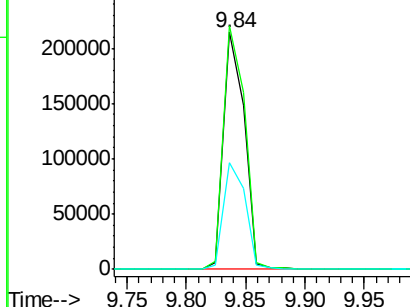
#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 9.84 min Scan# 678
 Delta R.T. -0.06 min
 Lab File: BF093298.D
 Acq: 1 Mar 2017 19:19

Instrument :
 BNA_F
 ClientSampleId :
 HY-SB421B

Tgt Ion:164 Resp: 259722
 Ion Ratio Lower Upper
 164 100
 162 102.7 80.2 120.2
 160 45.0 36.9 55.3

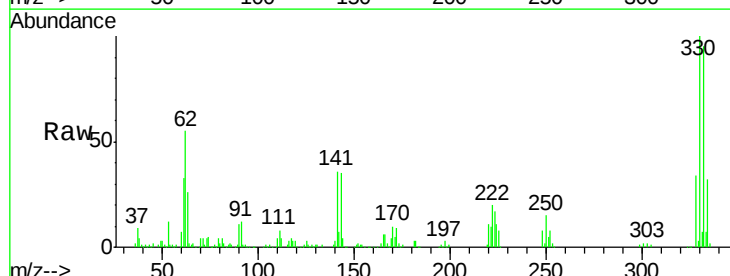


Abundance Ion 164.00 (163.70 to 164.70): E
 Ion 162.00 (161.70 to 162.70): E
 Ion 160.00 (159.70 to 160.70): E

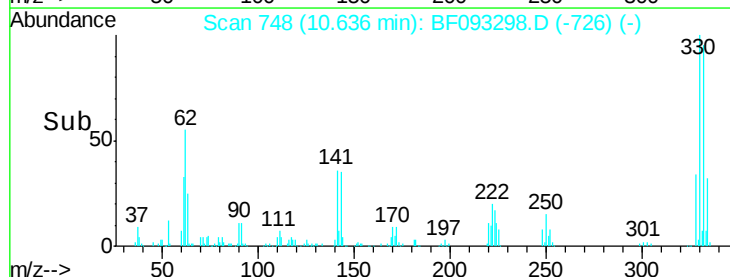
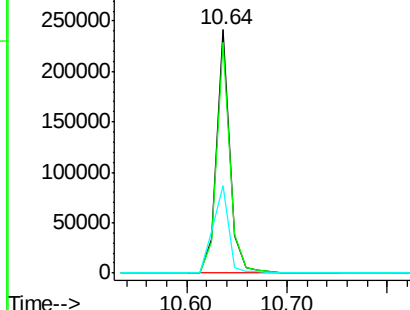


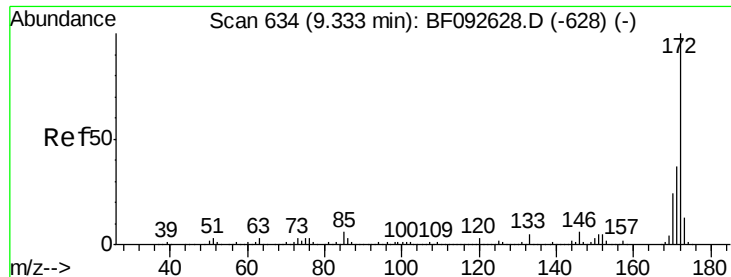
#41
 2,4,6-Tribromophenol
 Concen: 118.80 ng
 RT: 10.64 min Scan# 748
 Delta R.T. -0.05 min
 Lab File: BF093298.D
 Acq: 1 Mar 2017 19:19

Tgt Ion:330 Resp: 223155
 Ion Ratio Lower Upper
 330 100
 332 95.6 77.4 116.2
 141 43.1 34.1 51.1



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

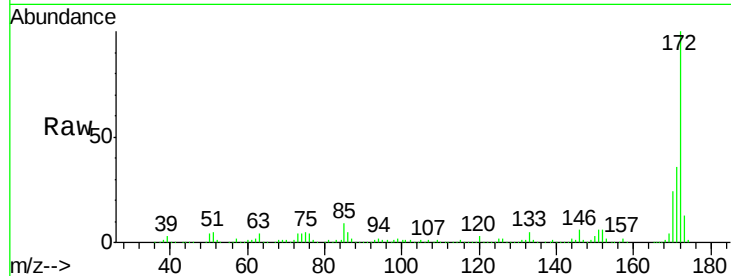




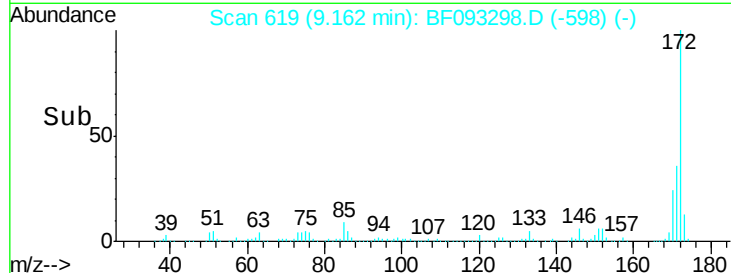
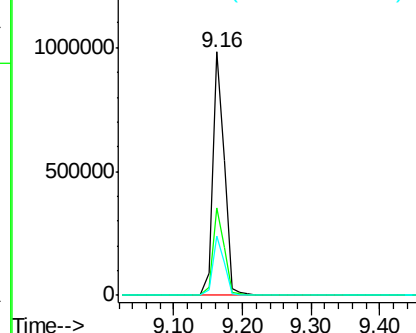
#44
 2-Fluorobiphenyl
 Concen: 80.51 ng
 RT: 9.16 min Scan# 619
 Delta R.T. -0.06 min
 Lab File: BF093298.D
 Acq: 1 Mar 2017 19:19

Instrument :
 BNA_F
 ClientSampled :
 HY-SB421B

Tgt Ion:172 Resp: 1154132
 Ion Ratio Lower Upper
 172 100
 171 36.0 29.4 44.0
 170 24.3 20.2 30.4

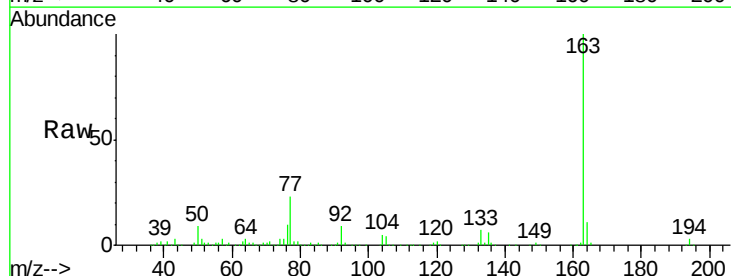


Abundance Ion 172.00 (171.70 to 172.70): E
 Ion 171.00 (170.70 to 171.70): E
 Ion 170.00 (169.70 to 170.70): E

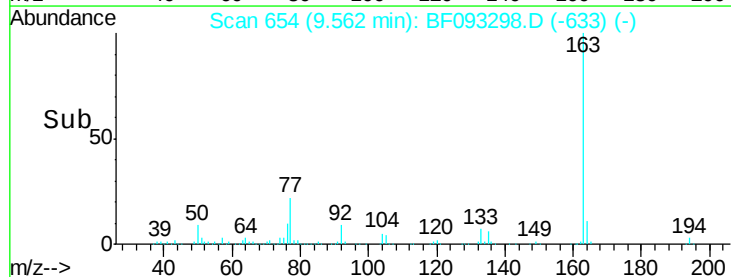
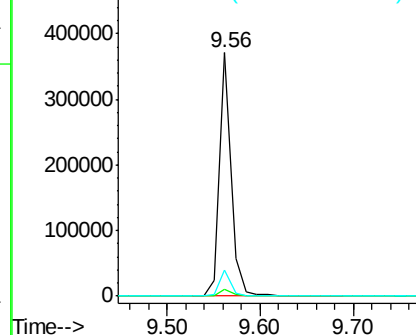


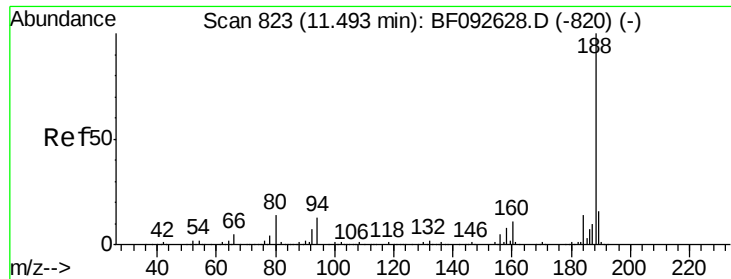
#49
 Dimethylphthalate
 Concen: 18.35 ng
 RT: 9.56 min Scan# 654
 Delta R.T. -0.06 min
 Lab File: BF093298.D
 Acq: 1 Mar 2017 19:19

Tgt Ion:163 Resp: 321089
 Ion Ratio Lower Upper
 163 100
 194 3.0 3.0 4.4
 164 10.6 8.0 12.0



Abundance Ion 163.00 (162.70 to 163.70): E
 Ion 194.00 (193.70 to 194.70): E
 Ion 164.00 (163.70 to 164.70): E

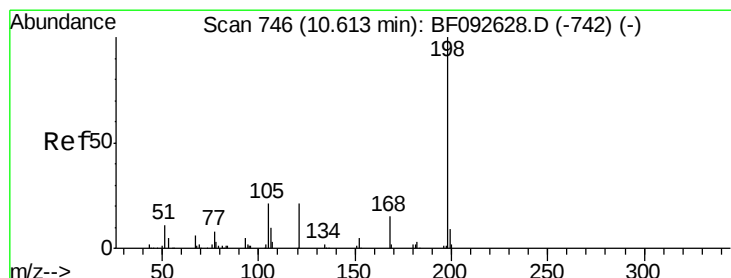
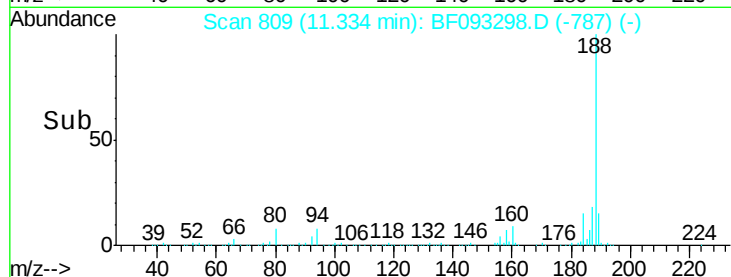
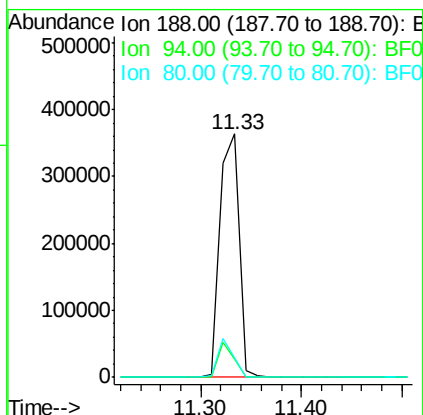
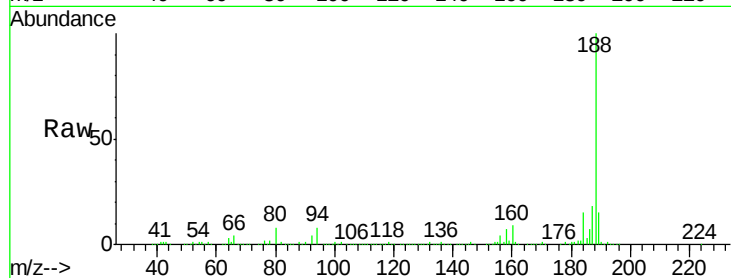




#63
 Phenanthrene-d10
 Concen: 20.00 ng
 RT: 11.33 min Scan# 809
 Delta R.T. -0.05 min
 Lab File: BF093298.D
 Acq: 1 Mar 2017 19:19

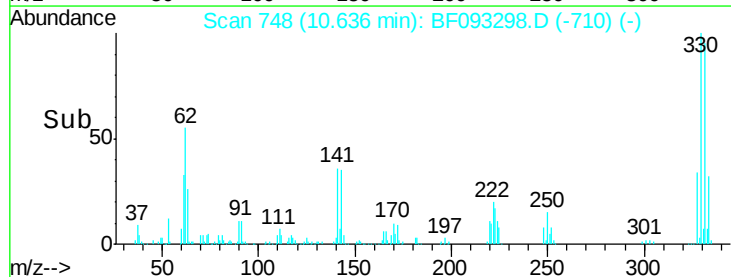
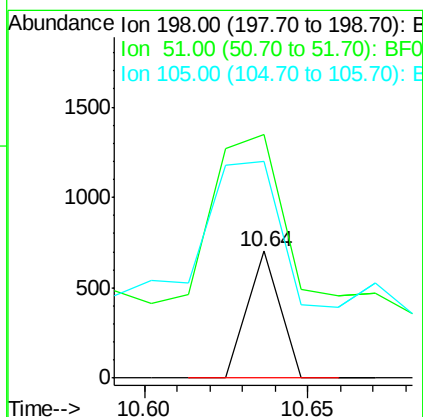
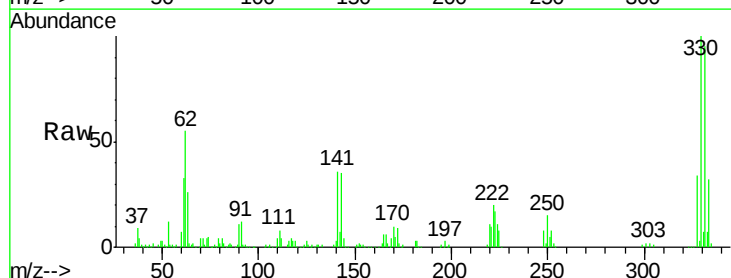
Instrument :
 BNA_F
 ClientSampleId :
 HY-SB421B

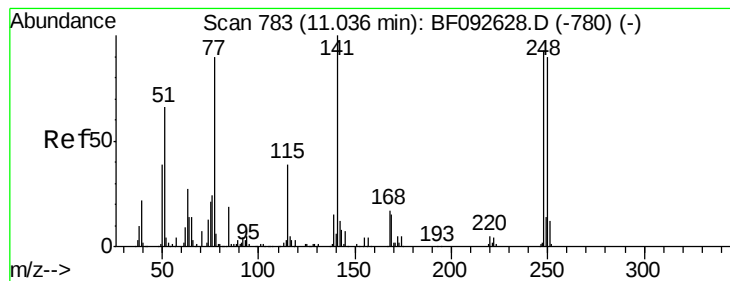
Tgt Ion:188 Resp: 483463
 Ion Ratio Lower Upper
 188 100
 94 7.8 10.0 15.0#
 80 8.2 11.2 16.8#



#64
 4,6-Dinitro-2-methylphenol
 Concen: 2.82 ng
 RT: 10.64 min Scan# 748
 Delta R.T. 0.14 min
 Lab File: BF093298.D
 Acq: 1 Mar 2017 19:19

Tgt Ion:198 Resp: 481
 Ion Ratio Lower Upper
 198 100
 51 191.9 6.7 46.7#
 105 170.8 16.6 56.6#





#66

4-Bromophenyl-phenylether

Concen: 3.52 ng

RT: 10.64 min Scan# 748

Delta R.T. -0.29 min

Lab File: BF093298.D

Acq: 1 Mar 2017 19:19

Instrument :

BNA_F

ClientSampleId :

HY-SB421B

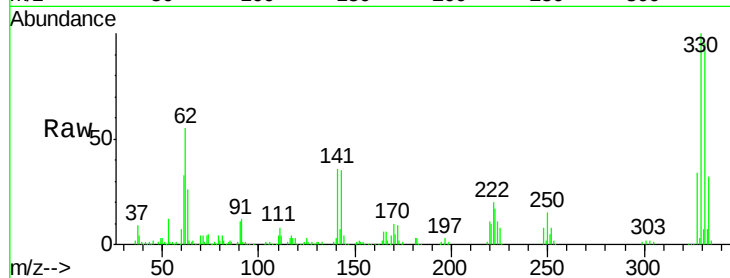
Tgt Ion:248 Resp: 17778

Ion Ratio Lower Upper

248 100

250 187.5 76.9 115.3#

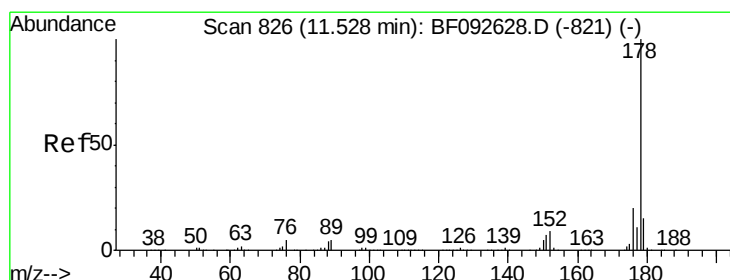
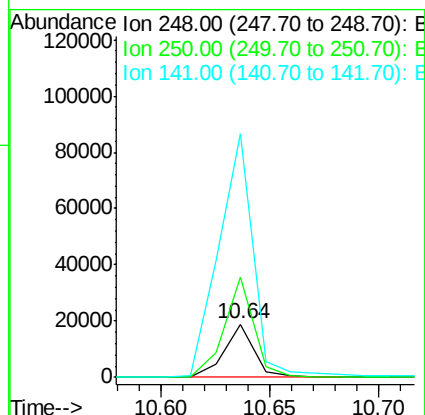
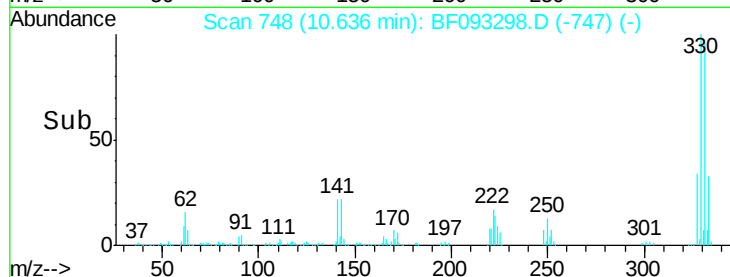
141 455.4 68.2 102.4#



Abundance Ion 248.00 (247.70 to 248.70): E

Ion 250.00 (249.70 to 250.70): E

Ion 141.00 (140.70 to 141.70): E



#70

Phenanthrene

Concen: 13.61 ng

RT: 11.36 min Scan# 811

Delta R.T. -0.05 min

Lab File: BF093298.D

Acq: 1 Mar 2017 19:19

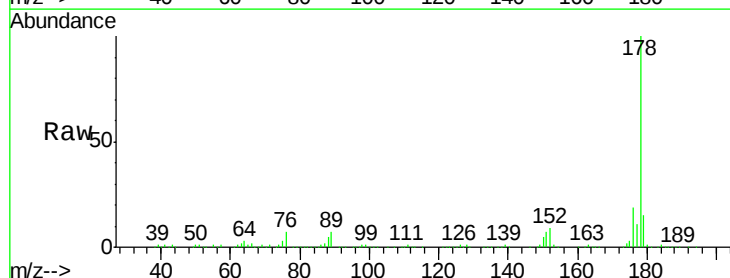
Tgt Ion:178 Resp: 377044

Ion Ratio Lower Upper

178 100

176 19.3 16.6 25.0

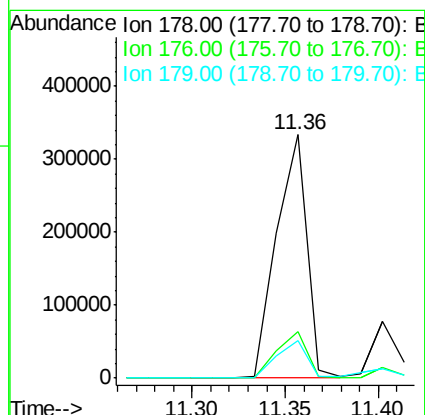
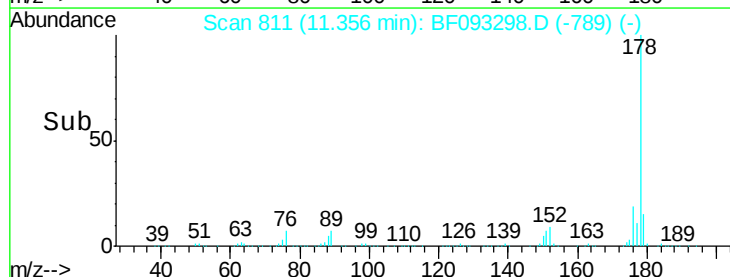
179 15.4 12.8 19.2

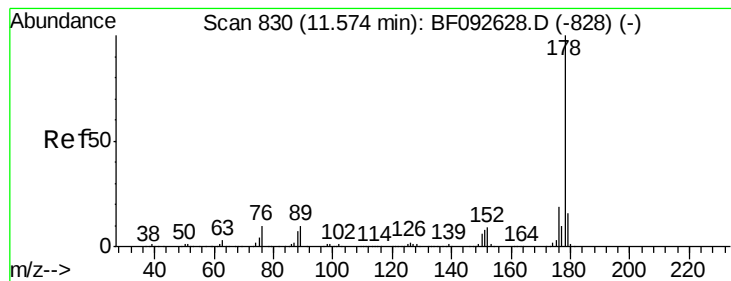


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#71

Anthracene

Concen: 2.82 ng

RT: 11.40 min Scan# 815

Delta R.T. -0.06 min

Lab File: BF093298.D

Acq: 1 Mar 2017 19:19

Instrument :

BNA_F

ClientSampleId :

HY-SB421B

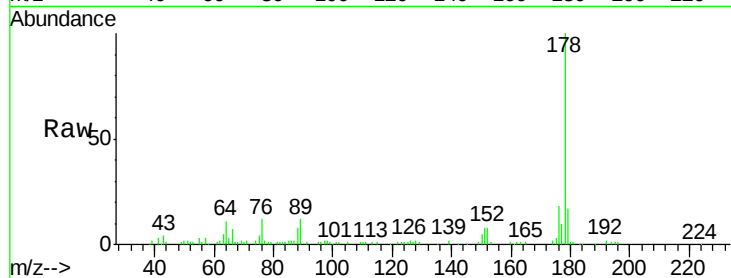
Tgt Ion:178 Resp: 78404

Ion Ratio Lower Upper

178 100

176 18.3 15.9 23.9

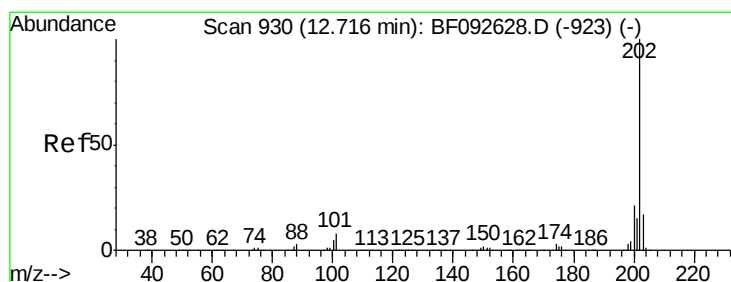
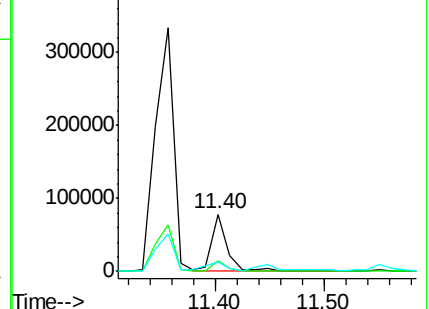
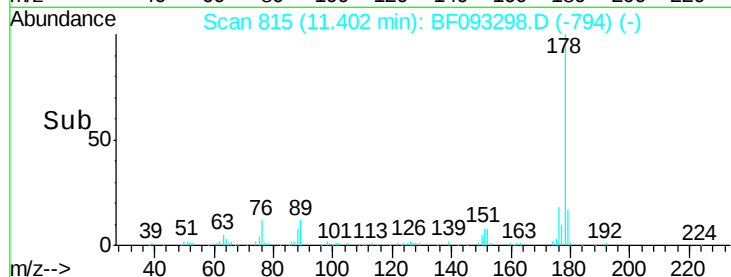
179 16.7 13.2 19.8



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



#74

Fluoranthene

Concen: 19.39 ng

RT: 12.55 min Scan# 915

Delta R.T. -0.05 min

Lab File: BF093298.D

Acq: 1 Mar 2017 19:19

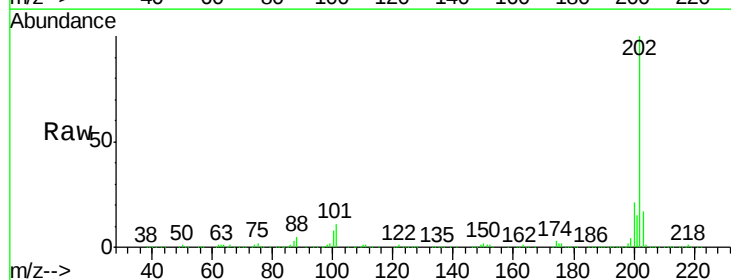
Tgt Ion:202 Resp: 553865

Ion Ratio Lower Upper

202 100

101 11.3 0.0 34.6

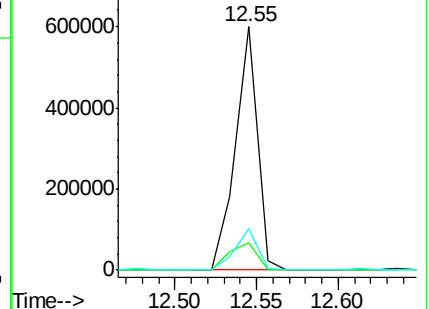
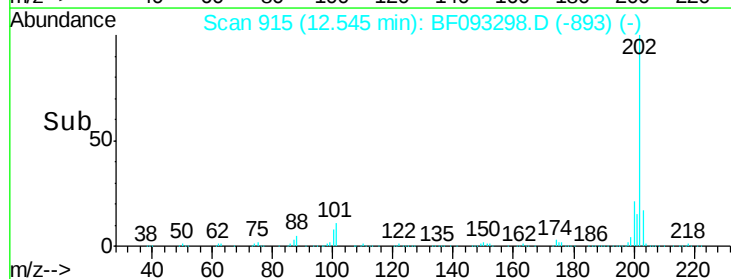
203 17.1 0.0 38.7

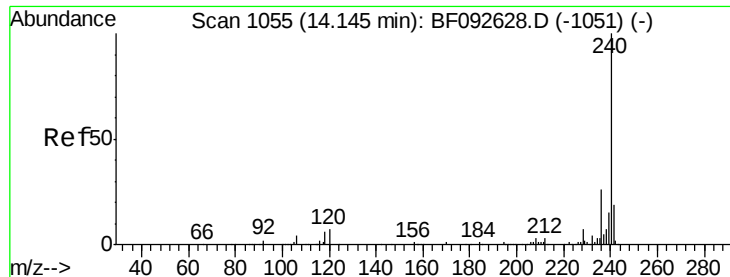


Abundance Ion 202.00 (201.70 to 202.70): E

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: 13.97 min Scan# 1040

Delta R.T. -0.05 min

Lab File: BF093298.D

Acq: 1 Mar 2017 19:19

Instrument :

BNA_F

ClientSampleId :

HY-SB421B

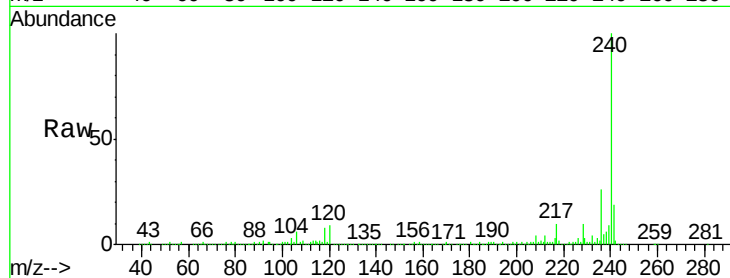
Tgt Ion:240 Resp: 373517

Ion Ratio Lower Upper

240 100

120 9.3 12.9 19.3#

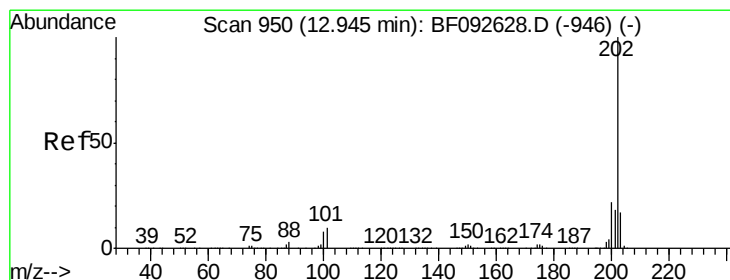
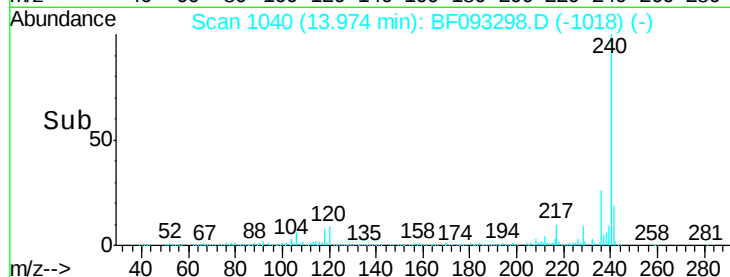
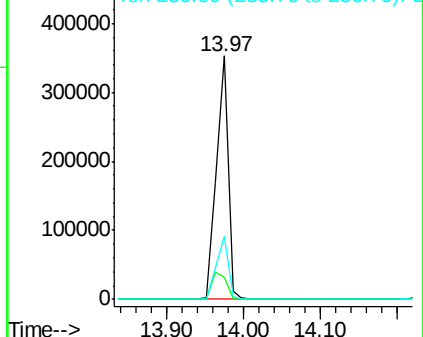
236 26.2 20.9 31.3



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: 18.49 ng

RT: 12.77 min Scan# 935

Delta R.T. -0.05 min

Lab File: BF093298.D

Acq: 1 Mar 2017 19:19

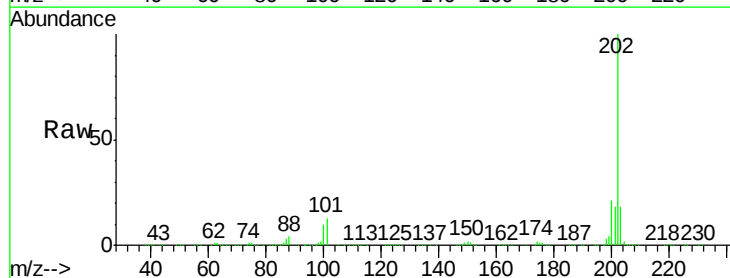
Tgt Ion:202 Resp: 516833

Ion Ratio Lower Upper

202 100

200 21.1 17.7 26.5

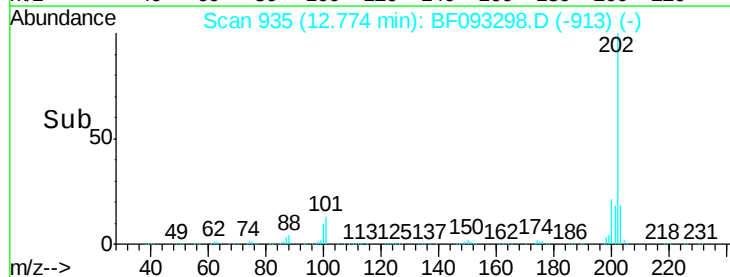
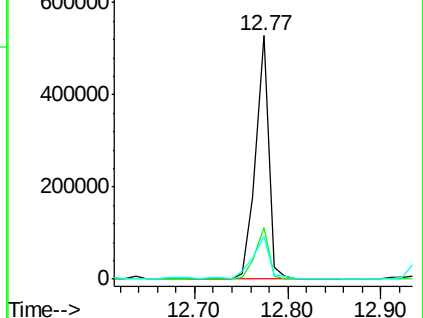
203 17.5 14.7 22.1

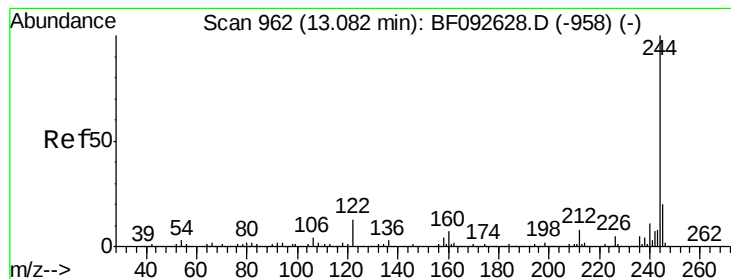


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 63.16 ng

RT: 12.91 min Scan# 947

Delta R.T. -0.06 min

Lab File: BF093298.D

Acq: 1 Mar 2017 19:19

Instrument :

BNA_F

ClientSampleId :

HY-SB421B

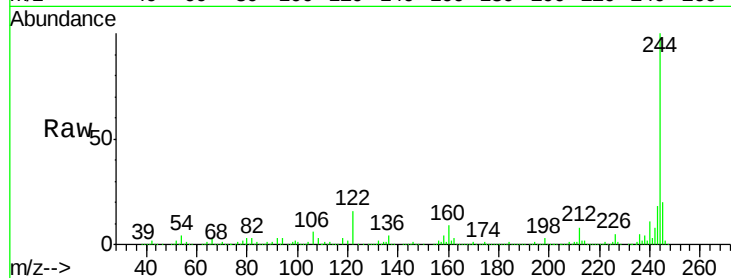
Tgt Ion:244 Resp: 1004009

Ion Ratio Lower Upper

244 100

212 7.7 6.2 9.2

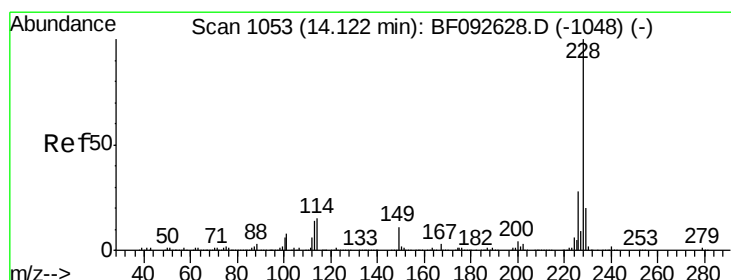
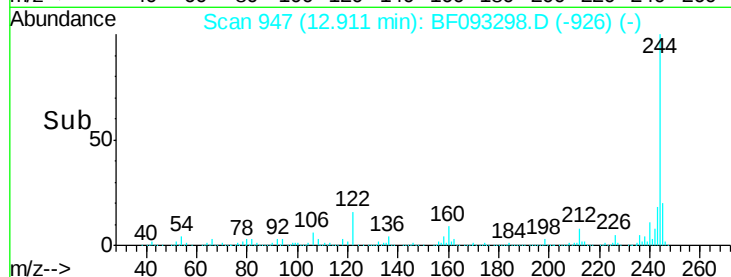
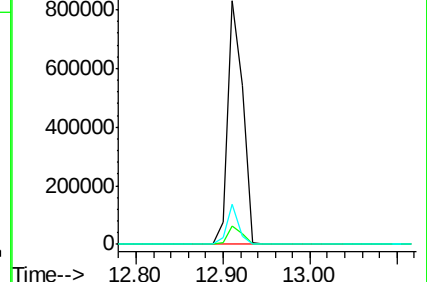
122 16.4 11.4 17.2



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: 11.07 ng

RT: 13.96 min Scan# 1039

Delta R.T. -0.05 min

Lab File: BF093298.D

Acq: 1 Mar 2017 19:19

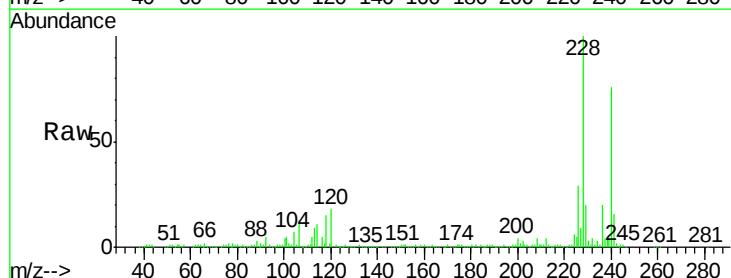
Tgt Ion:228 Resp: 252856

Ion Ratio Lower Upper

228 100

226 28.7 22.4 33.6

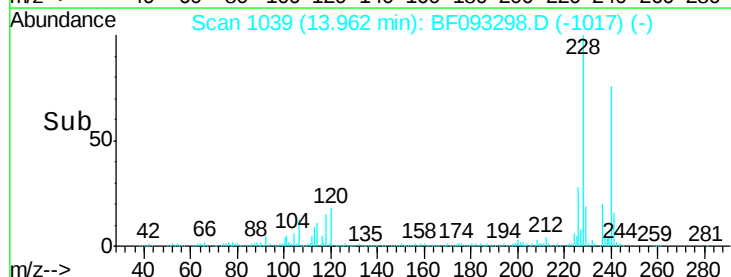
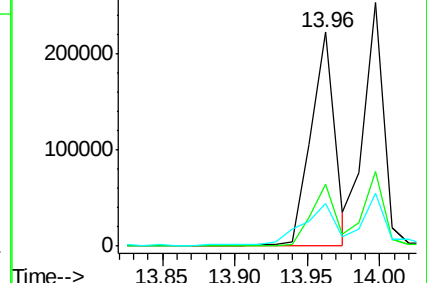
229 19.9 16.2 24.4

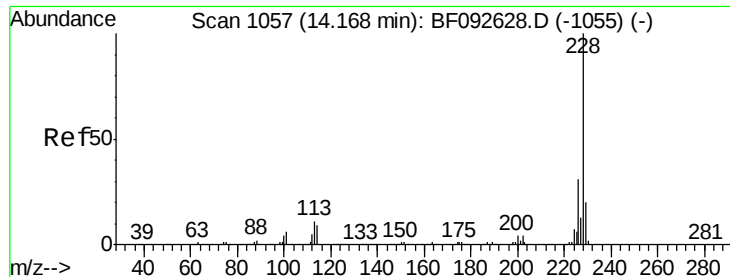


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#82

Chrysene

Concen: 11.20 ng

RT: 14.00 min Scan# 1042

Delta R.T. -0.05 min

Lab File: BF093298.D

Acq: 1 Mar 2017 19:19

Instrument :

BNA_F

ClientSampleId :

HY-SB421B

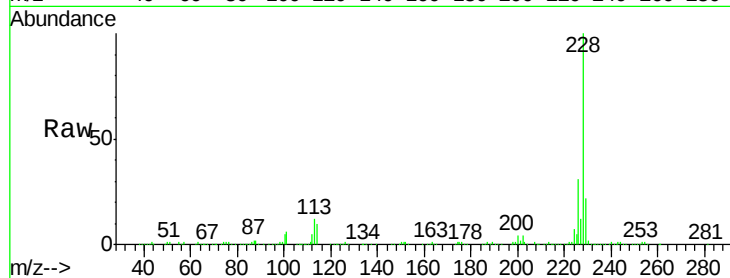
Tgt Ion:228 Resp: 239553

Ion Ratio Lower Upper

228 100

226 30.8 25.4 38.0

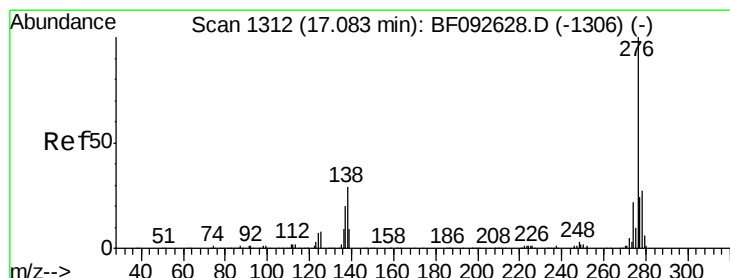
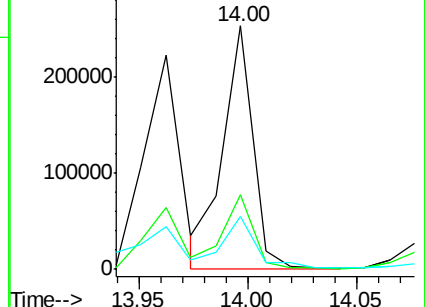
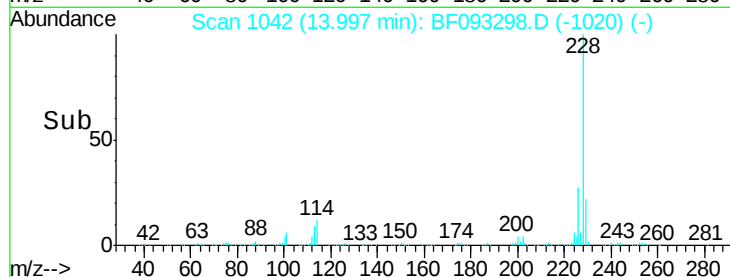
229 21.7 16.2 24.2



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: 8.70 ng

RT: 16.79 min Scan# 1286

Delta R.T. -0.07 min

Lab File: BF093298.D

Acq: 1 Mar 2017 19:19

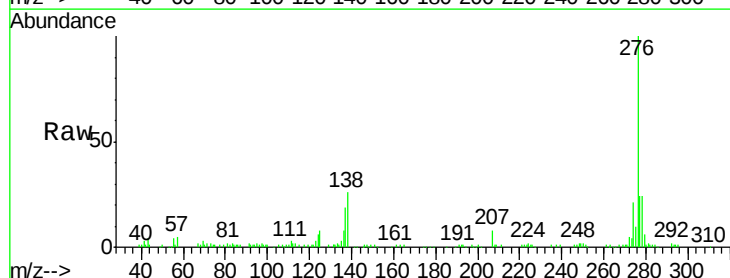
Tgt Ion:276 Resp: 144203

Ion Ratio Lower Upper

276 100

138 26.9 21.8 32.6

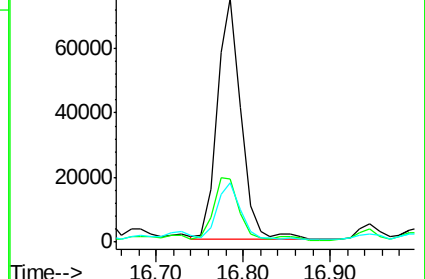
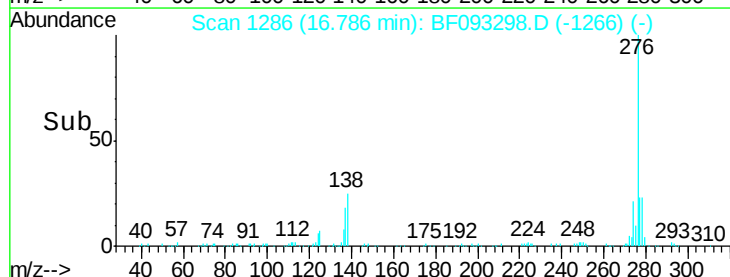
277 22.9 20.2 30.4

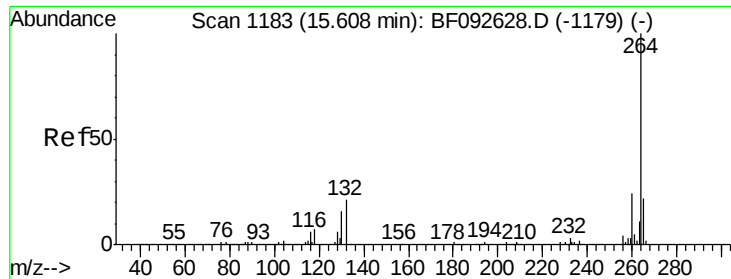


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

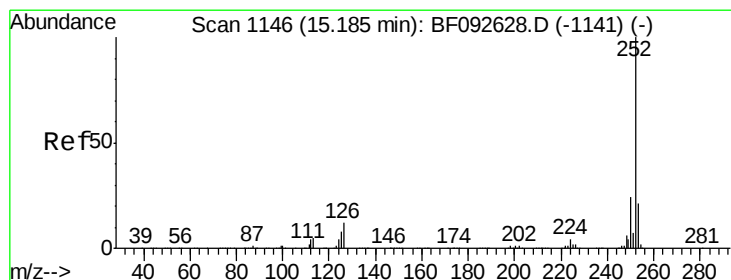
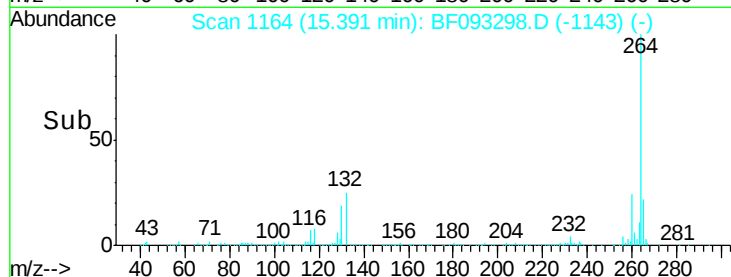
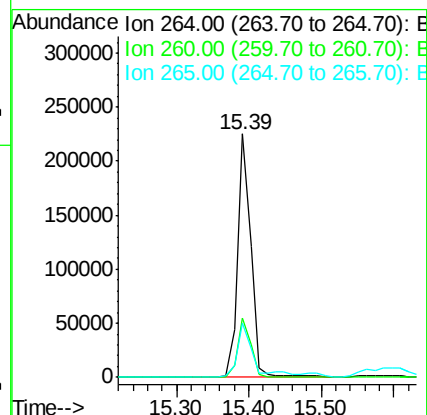
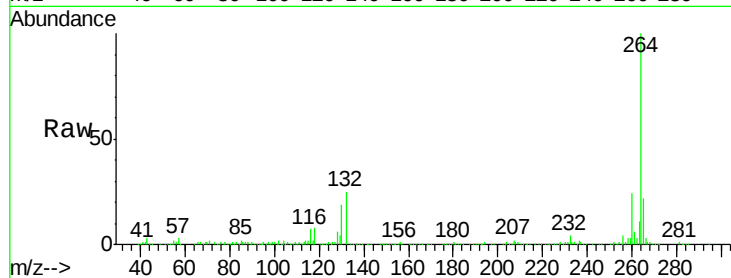




#86
Perylene-d12
Concen: 20.00 ng
RT: 15.39 min Scan# 1164
Delta R.T. -0.06 min
Lab File: BF093298.D
Acq: 1 Mar 2017 19:19

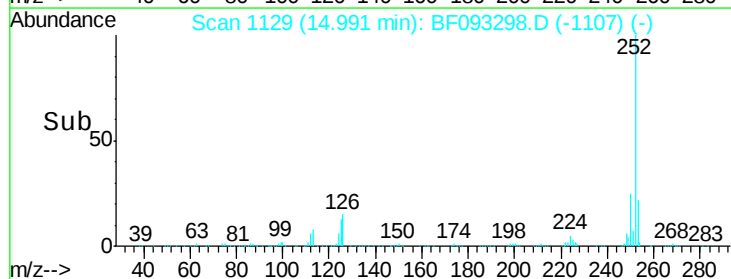
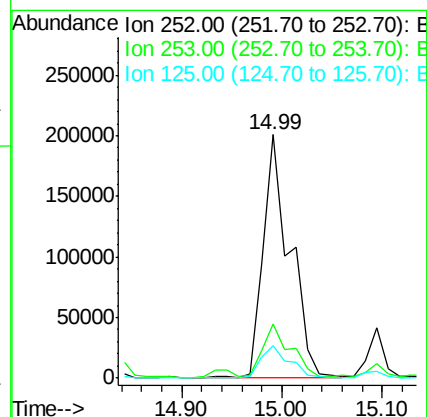
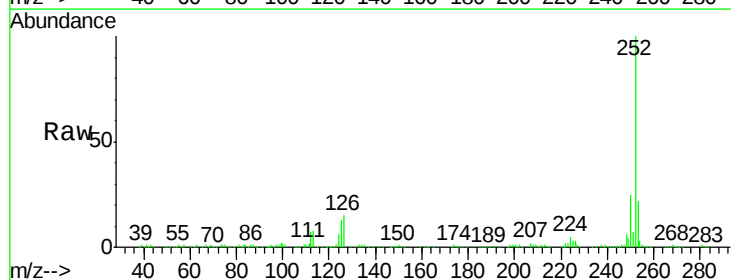
Instrument :
BNA_F
ClientSampleId :
HY-SB421B

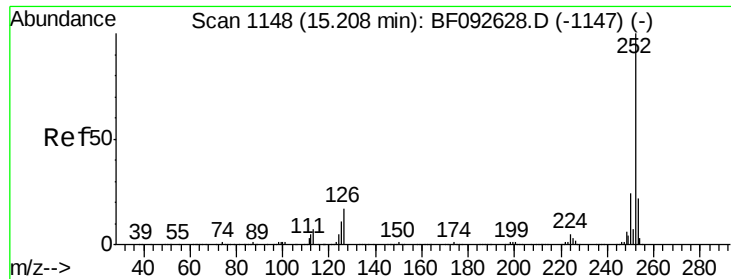
Tgt Ion: 264 Resp: 284278
Ion Ratio Lower Upper
264 100
260 24.5 19.2 28.8
265 22.4 17.4 26.0



#87
Benzo(b)fluoranthene
Concen: 19.58 ng
RT: 14.99 min Scan# 1129
Delta R.T. -0.05 min
Lab File: BF093298.D
Acq: 1 Mar 2017 19:19

Tgt Ion: 252 Resp: 366365
Ion Ratio Lower Upper
252 100
253 22.2 18.2 27.4
125 13.3 9.8 14.6

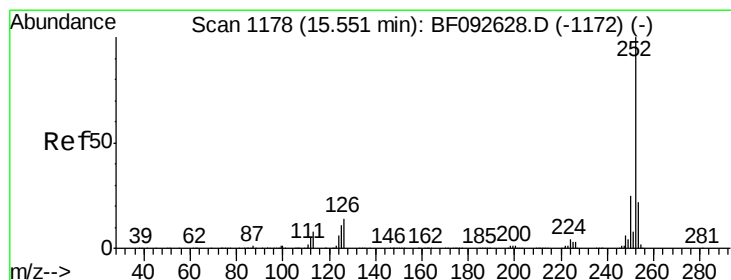
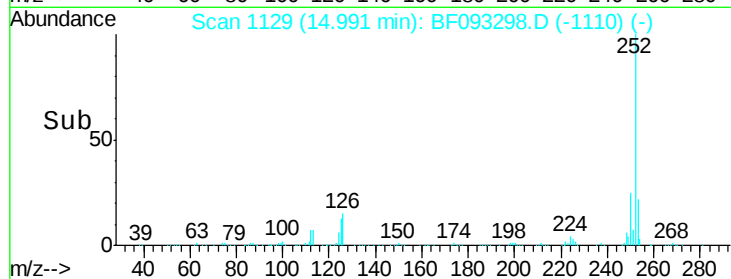
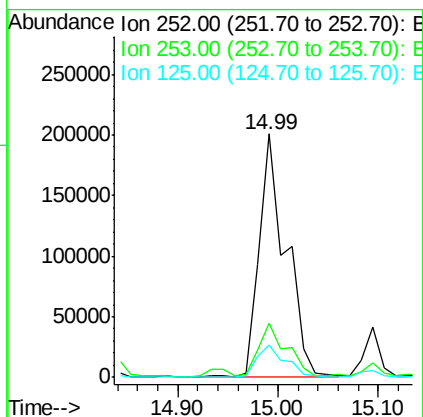
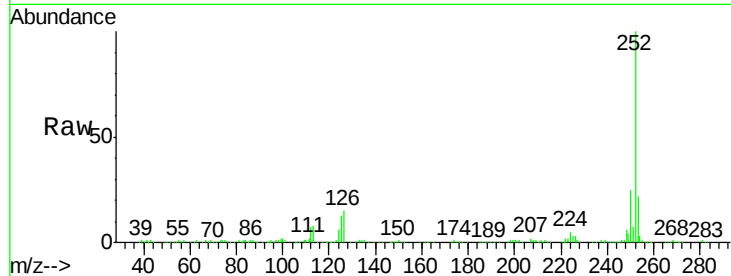




#88
Benzo(k)fluoranthene
Concen: 22.68 ng
RT: 14.99 min Scan# 1129
Delta R.T. -0.08 min
Lab File: BF093298.D
Acq: 1 Mar 2017 19:19

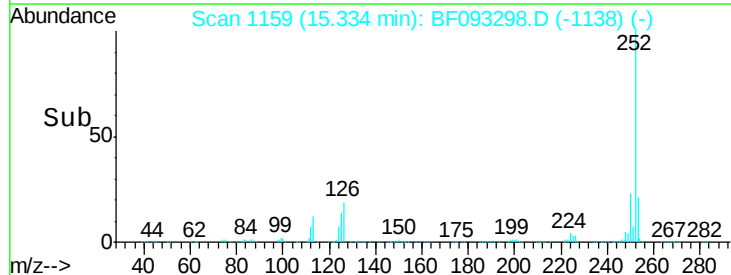
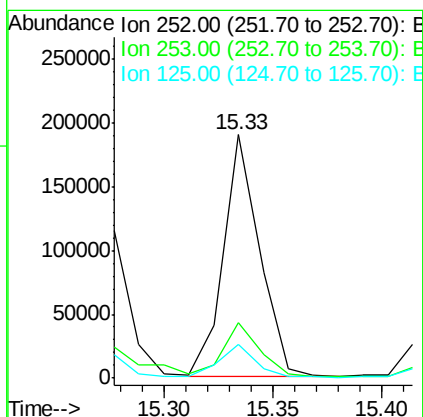
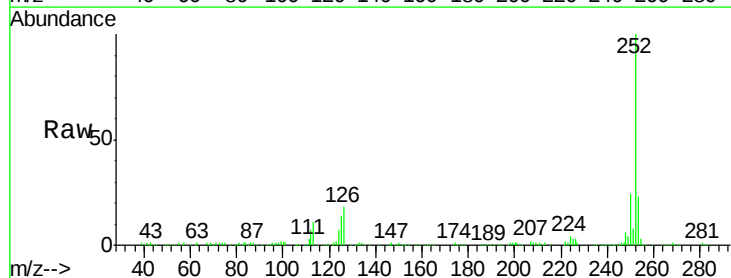
Instrument :
BNA_F
ClientSampleId :
HY-SB421B

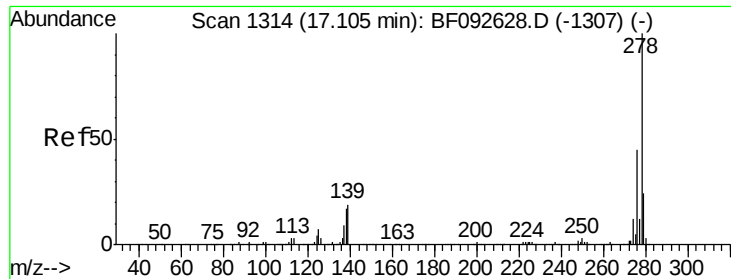
Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.2	18.5	27.7
125	13.3	8.9	13.3



#89
Benzo(a)pyrene
Concen: 13.63 ng
RT: 15.33 min Scan# 1159
Delta R.T. -0.06 min
Lab File: BF093298.D
Acq: 1 Mar 2017 19:19

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.6	18.2	27.2
125	13.8	10.0	15.0





#90

Dibenzo(a,h)anthracene

Concen: 2.43 ng

RT: 16.95 min Scan# 1300

Delta R.T. 0.08 min

Lab File: BF093298.D

Acq: 1 Mar 2017 19:19

Instrument :

BNA_F

ClientSampleId :

HY-SB421B

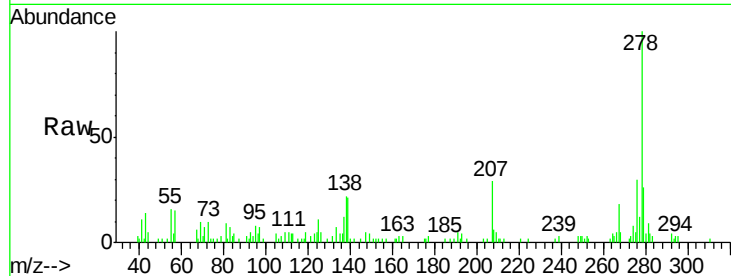
Tgt Ion:278 Resp: 31849

Ion Ratio Lower Upper

278 100

139 21.5 14.8 22.2

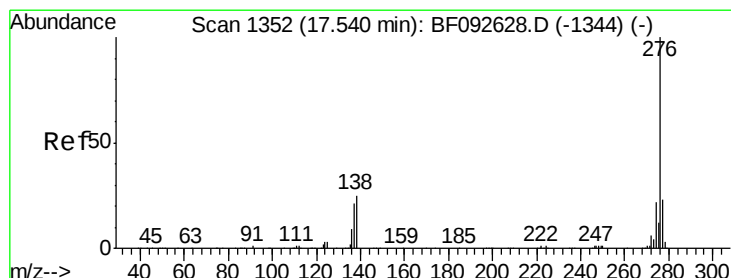
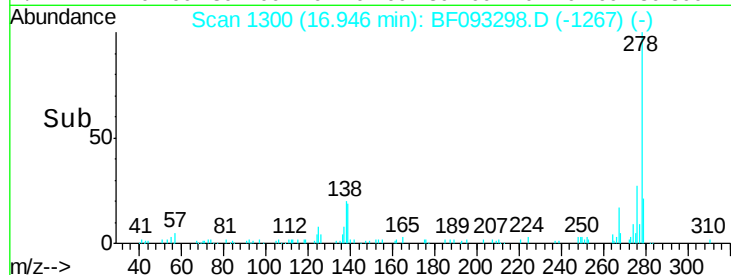
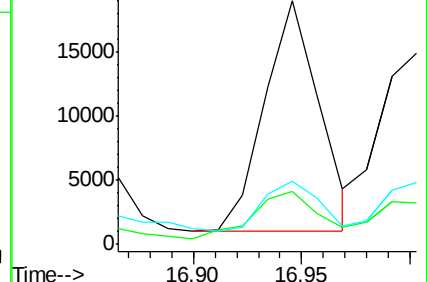
279 25.9 19.8 29.6



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: 10.35 ng

RT: 17.21 min Scan# 1323

Delta R.T. -0.08 min

Lab File: BF093298.D

Acq: 1 Mar 2017 19:19

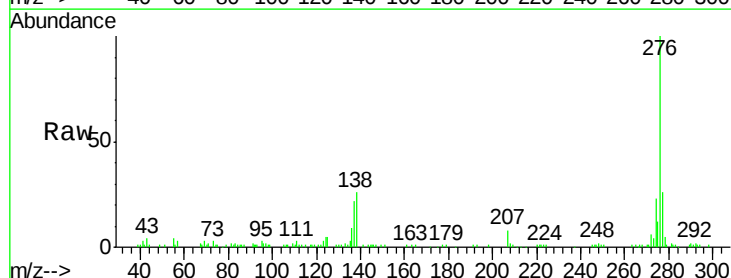
Tgt Ion:276 Resp: 136797

Ion Ratio Lower Upper

276 100

277 26.4 19.2 28.8

138 25.9 16.0 24.0#



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

