

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE030316\
 Data File : BE091443.D
 Acq On : 4 Mar 2016 3:44
 Operator : UM/IZ
 Sample : MDL-01-S
 Misc : 0.16PPM
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :

Quant Time: Mar 04 07:53:25 2016
 Quant Method : Z:\HPCHEM1\BNA_E\METHODS\SIM-BE030316.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Mar 04 06:35:39 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.85	152	30923	5.00	ng	-0.02
4) Naphthalene-d8	9.53	136	136665	5.00	ng	0.00
8) Acenaphthene-d10	13.34	164	84325	5.00	ng	0.00
13) Phenanthrene-d10	16.10	188	133306	5.00	ng	0.00
19) Chrysene-d12	20.21	240	236642	5.00	ng	0.00
25) Perylene-d12	22.09	264	267554	5.00	ng	0.00

System Monitoring Compounds						
5) Nitrobenzene-d5	8.15	82	34276	4.05	ng	-0.03
9) 2-Fluorobiphenyl	11.99	172	97751	4.77	ng	-0.01
21) Terphenyl-d14	18.59	244	170598	4.74	ng	-0.02

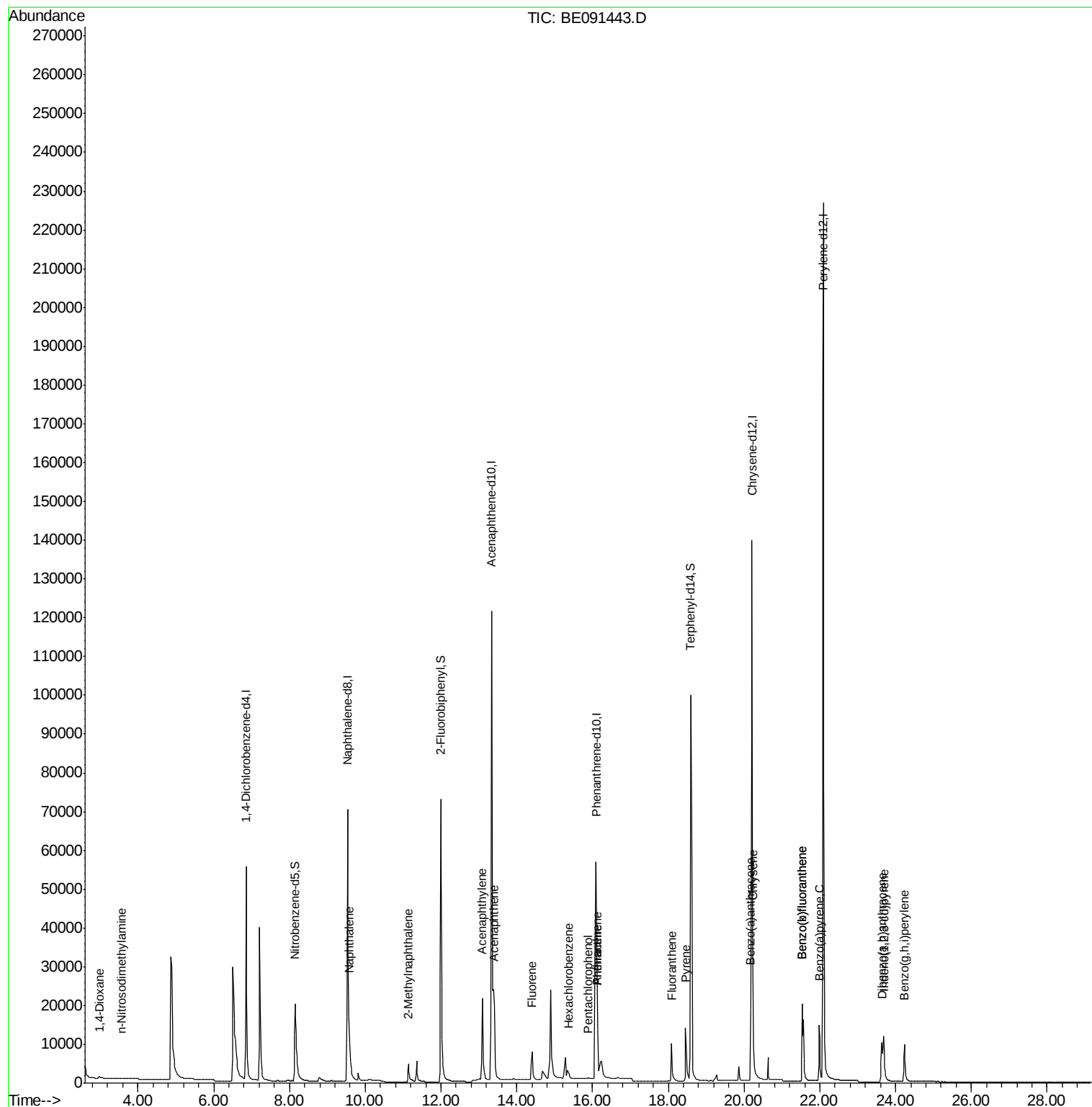
Target Compounds						Qvalue
2) 1,4-Dioxane	2.99	88	810	0.30	ng	95
3) n-Nitrosodimethylamine	3.56	42	491	0.25	ng	# 71
6) Naphthalene	9.57	128	10235	0.32	ng	99
7) 2-Methylnaphthalene	11.14	142	5825	0.31	ng	93
10) Acenaphthylene	13.09	152	36866	0.26	ng	100
11) Acenaphthene	13.41	154	7265	0.29	ng	# 100
12) Fluorene	14.41	166	8404	0.26	ng	99
14) Hexachlorobenzene	15.38	284	2228	0.28	ng	# 100
15) Pentachlorophenol	15.89	266	299	0.60	ng	91
16) Phenanthrene	16.13	178	15135	0.32	ng	99
17) Anthracene	16.13	178	23461	0.40	ng	# 78
18) Fluoranthene	18.09	202	18011	0.32	ng	98
20) Pyrene	18.46	202	19199	0.28	ng	99
22) Benzo(a)anthracene	20.17	228	22115	0.27	ng	99
23) Chrysene	20.24	228	24520	0.28	ng	100
24) Indeno(1,2,3-cd)pyrene	23.69	276	22414	0.31	ng	93
26) Benzo(b)fluoranthene	21.53	252	42733	0.57	ng	99
27) Benzo(k)fluoranthene	21.53	252	43055	0.60	ng	95
28) Benzo(a)pyrene	21.99	252	18848	0.29	ng	99
29) Dibenzo(a,h)anthracene	23.64	278	17329	0.28	ng	99
30) Benzo(g,h,i)perylene	24.23	276	19457	0.29	ng	98

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

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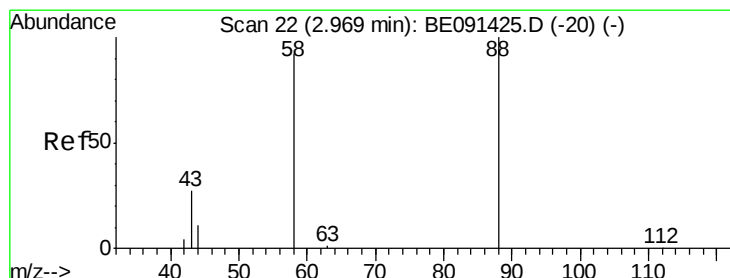
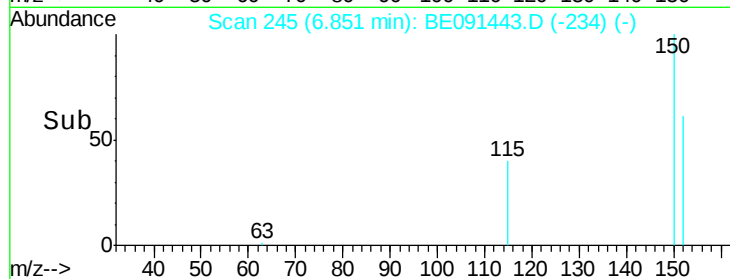
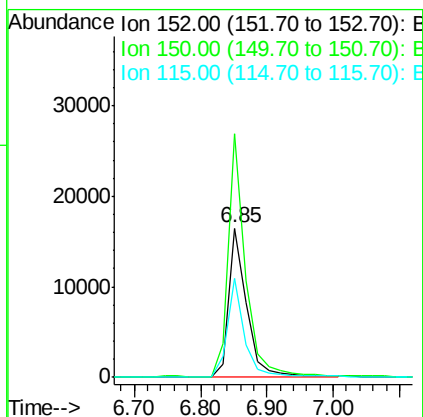
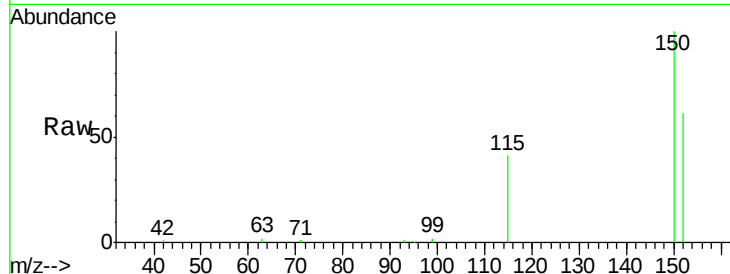




#1
 1,4-Dichlorobenzene-d4
 Concen: 5.00 ng
 RT: 6.85 min Scan# 245
 Delta R.T. -0.02 min
 Lab File: BE091443.D
 Acq: 4 Mar 2016 3:44

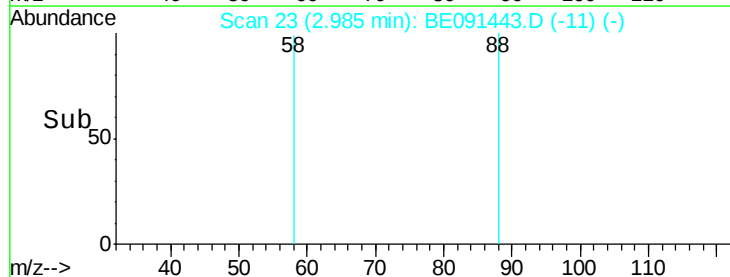
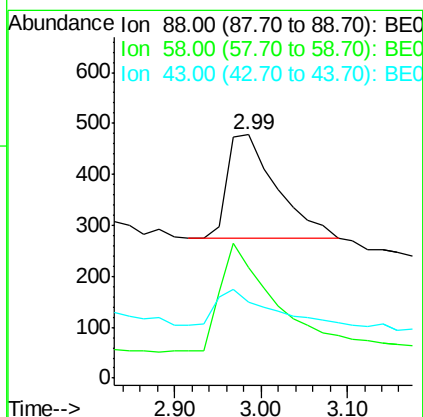
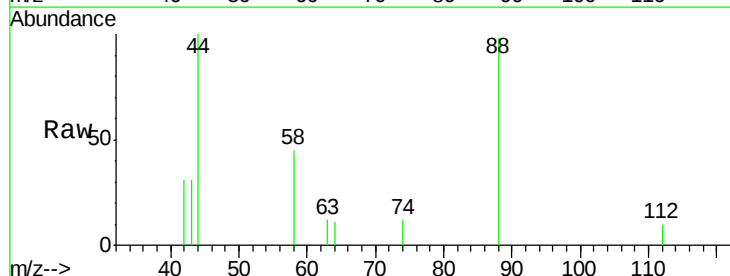
Instrument :
 BNA_E
 ClientSampleId :

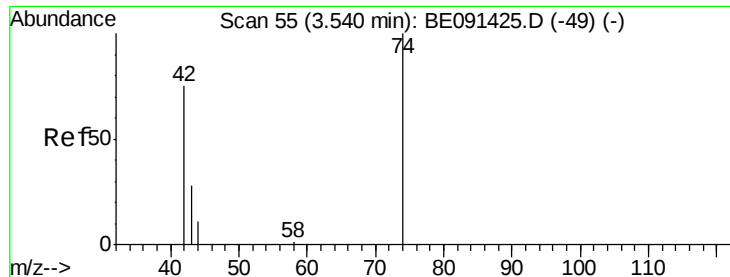
Tgt Ion: 152 Resp: 30923
 Ion Ratio Lower Upper
 152 100
 150 163.4 115.0 172.4
 115 66.3 42.2 63.4#



#2
 1,4-Dioxane
 Concen: 0.30 ng
 RT: 2.99 min Scan# 23
 Delta R.T. 0.02 min
 Lab File: BE091443.D
 Acq: 4 Mar 2016 3:44

Tgt Ion: 88 Resp: 810
 Ion Ratio Lower Upper
 88 100
 58 115.3 97.9 146.9
 43 35.2 29.0 43.4





#3

n-Nitrosodimethylamine

Concen: 0.25 ng

RT: 3.56 min Scan# 56

Delta R.T. 0.02 min

Lab File: BE091443.D

Acq: 4 Mar 2016 3:44

Instrument :

BNA_E

ClientSampleId :

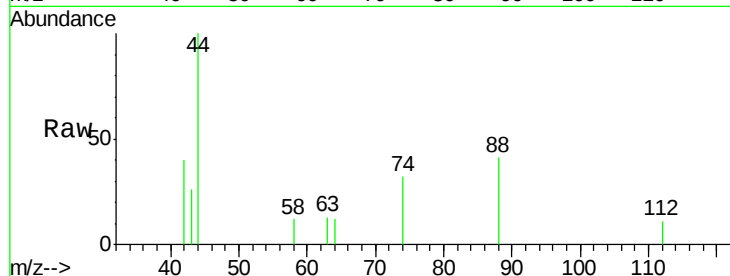
Tgt Ion: 42 Resp: 491

Ion Ratio Lower Upper

42 100

74 149.5 93.8 140.6#

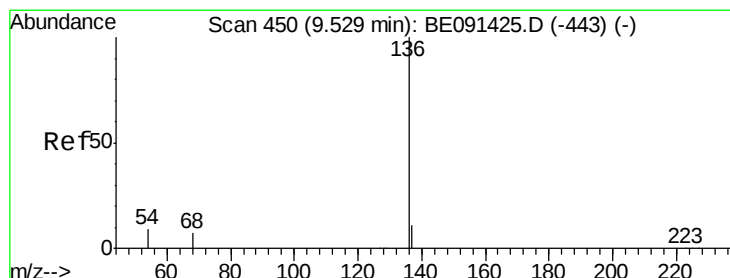
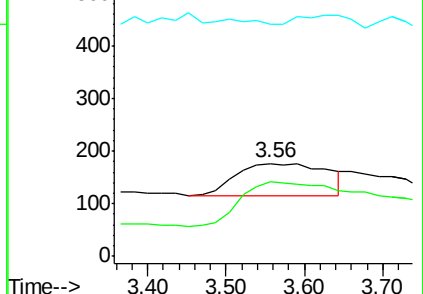
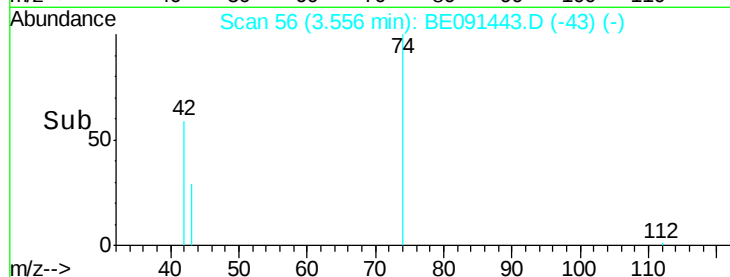
44 0.0 0.0 0.0



Abundance Ion 42.00 (41.70 to 42.70): BE0

Ion 74.00 (73.70 to 74.70): BE0

Ion 44.00 (43.70 to 44.70): BE0



#4

Naphthalene-d8

Concen: 5.00 ng

RT: 9.53 min Scan# 450

Delta R.T. 0.00 min

Lab File: BE091443.D

Acq: 4 Mar 2016 3:44

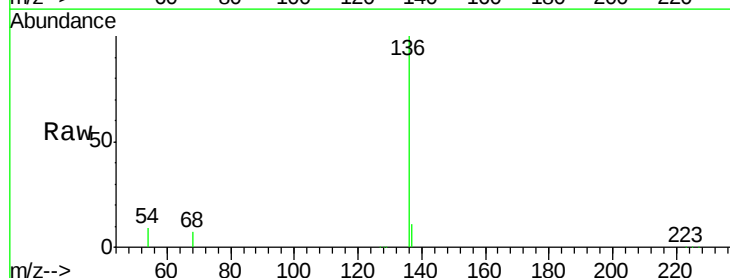
Tgt Ion: 136 Resp: 136665

Ion Ratio Lower Upper

136 100

137 10.9 8.7 13.1

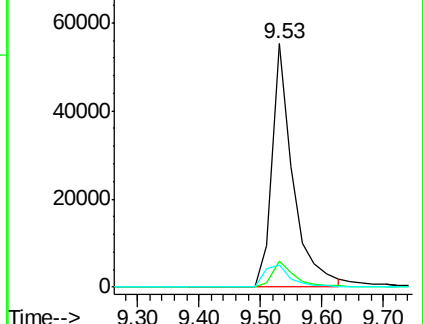
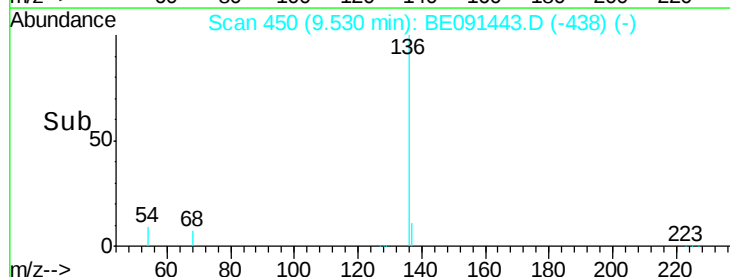
54 9.3 6.9 10.3

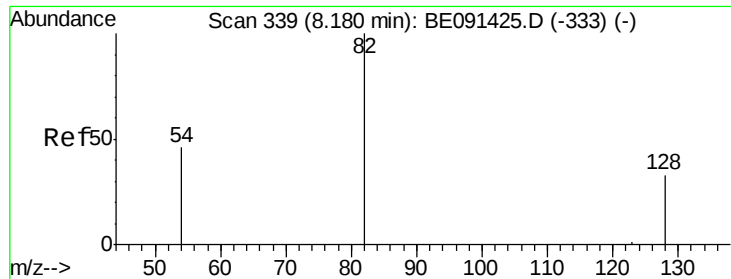


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BE0





#5

Nitrobenzene-d5

Concen: 4.05 ng

RT: 8.15 min Scan# 336

Delta R.T. -0.03 min

Lab File: BE091443.D

Acq: 4 Mar 2016 3:44

Instrument :

BNA_E

ClientSampleId :

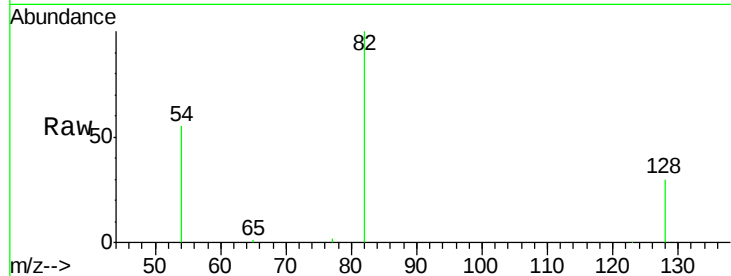
Tgt Ion: 82 Resp: 34276

Ion Ratio Lower Upper

82 100

128 30.3 30.0 45.0

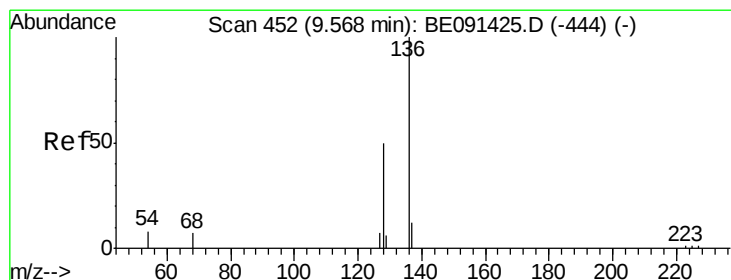
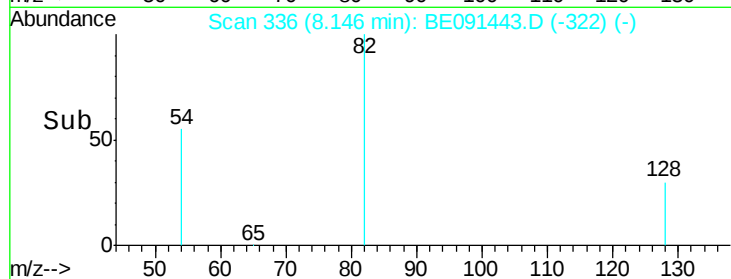
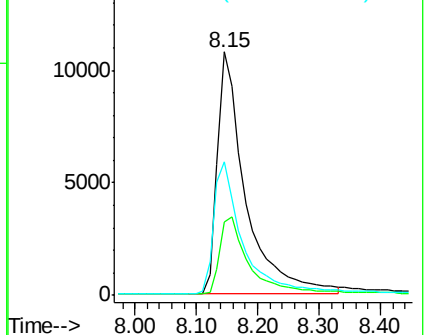
54 54.9 41.5 62.3



Abundance Ion 82.00 (81.70 to 82.70): BE091443.D (-322) (-)

Ion 128.00 (127.70 to 128.70): BE091443.D (-322) (-)

Ion 54.00 (53.70 to 54.70): BE091443.D (-322) (-)



#6

Naphthalene

Concen: 0.32 ng

RT: 9.57 min Scan# 452

Delta R.T. 0.00 min

Lab File: BE091443.D

Acq: 4 Mar 2016 3:44

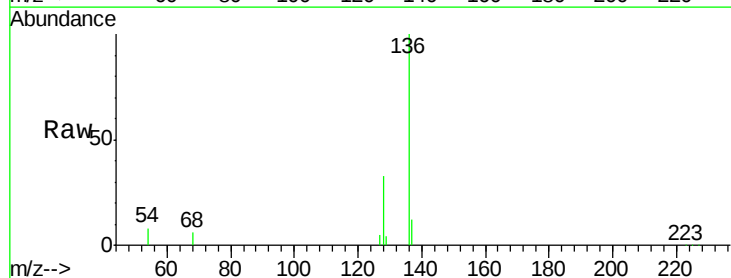
Tgt Ion: 128 Resp: 10235

Ion Ratio Lower Upper

128 100

129 11.8 9.5 14.3

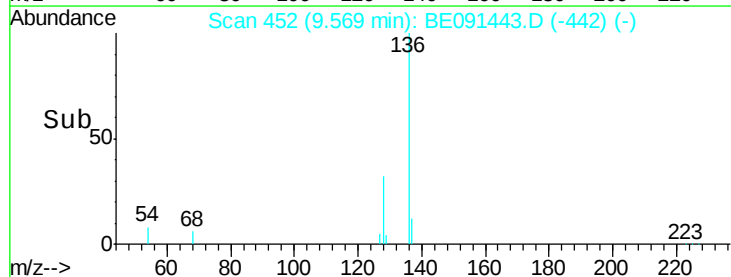
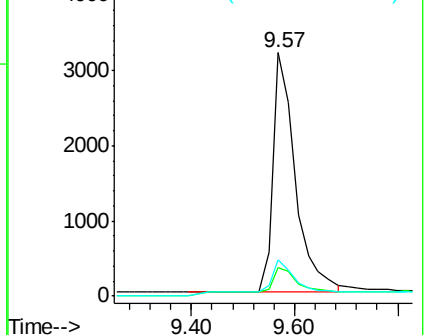
127 15.1 11.4 17.0

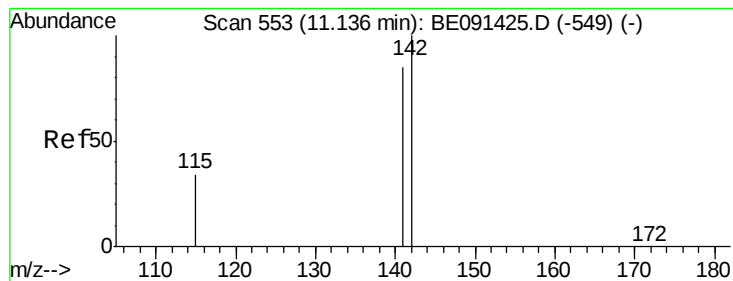


Abundance Ion 128.00 (127.70 to 128.70): BE091443.D (-442) (-)

Ion 129.00 (128.70 to 129.70): BE091443.D (-442) (-)

Ion 127.00 (126.70 to 127.70): BE091443.D (-442) (-)





#7

2-Methylnaphthalene

Concen: 0.31 ng

RT: 11.14 min Scan# 553

Delta R.T. -0.00 min

Lab File: BE091443.D

Acq: 4 Mar 2016 3:44

Instrument :

BNA_E

ClientSampleId :

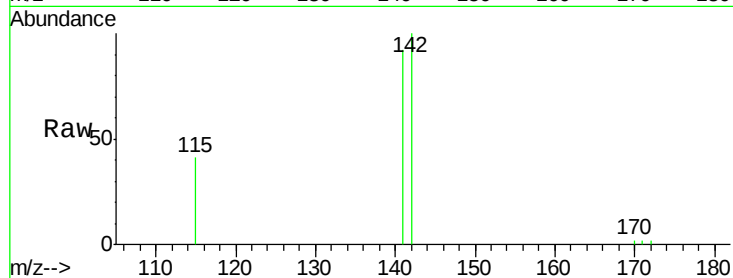
Tgt Ion:142 Resp: 5825

Ion Ratio Lower Upper

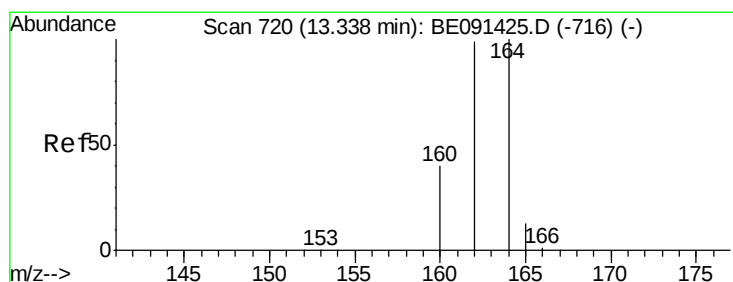
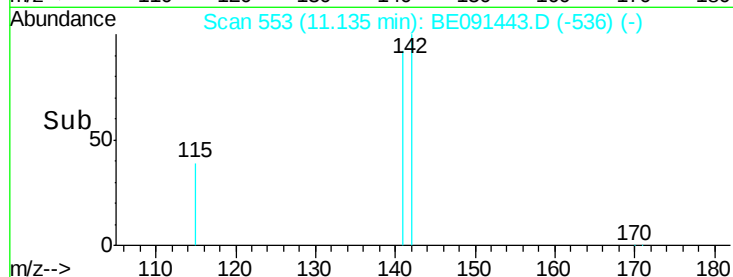
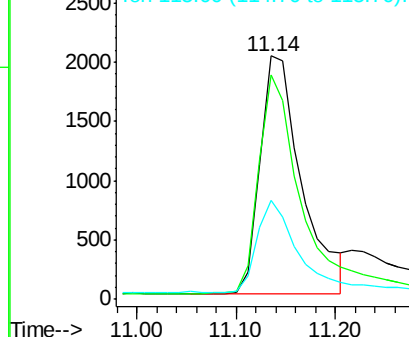
142 100

141 92.1 68.3 102.5

115 40.6 28.9 43.3



Abundance Ion 142.00 (141.70 to 142.70): E
Ion 141.00 (140.70 to 141.70): E
Ion 115.00 (114.70 to 115.70): E



#8

Acenaphthene-d10

Concen: 5.00 ng

RT: 13.34 min Scan# 720

Delta R.T. 0.00 min

Lab File: BE091443.D

Acq: 4 Mar 2016 3:44

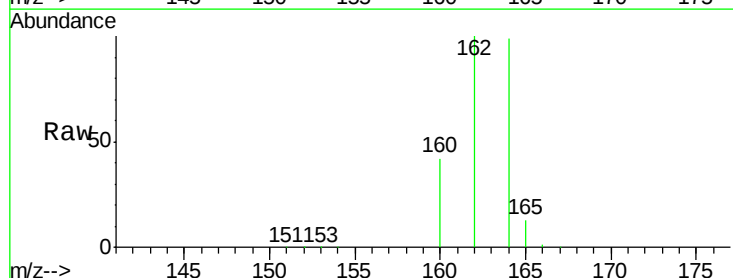
Tgt Ion:164 Resp: 84325

Ion Ratio Lower Upper

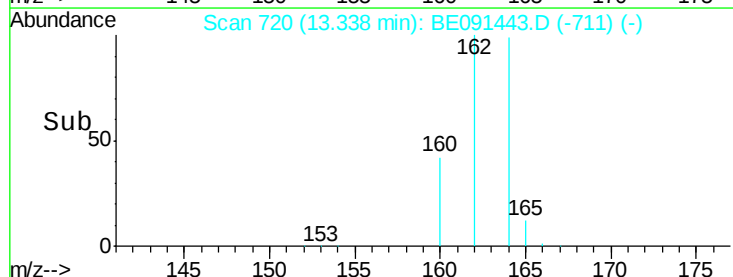
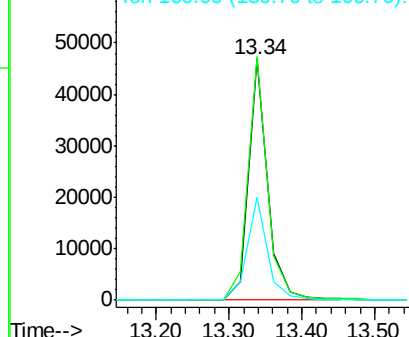
164 100

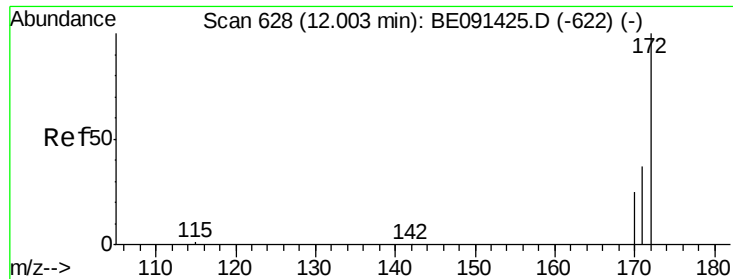
162 101.1 79.1 118.7

160 42.5 32.4 48.6



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

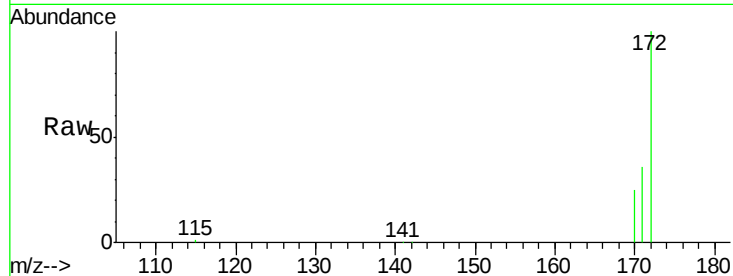




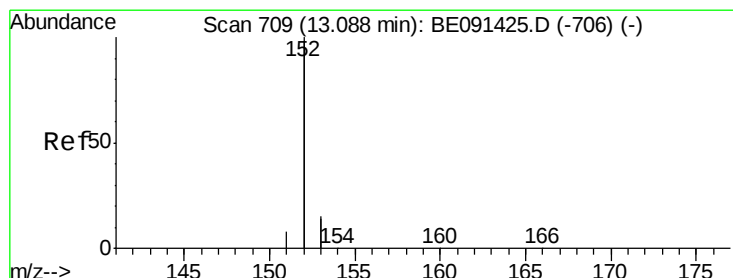
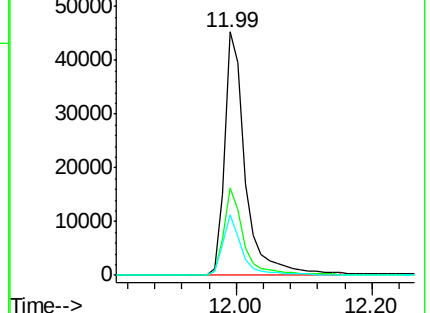
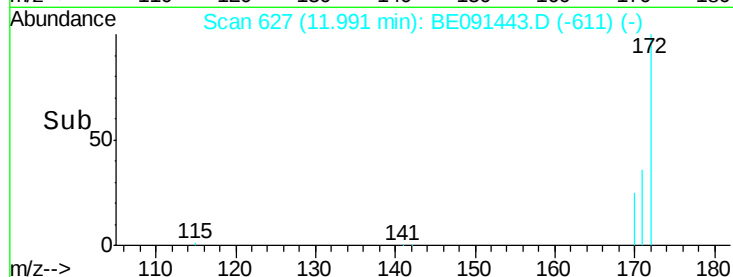
#9
 2-Fluorobiphenyl
 Concen: 4.77 ng
 RT: 11.99 min Scan# 627
 Delta R.T. -0.01 min
 Lab File: BE091443.D
 Acq: 4 Mar 2016 3:44

Instrument :
 BNA_E
 ClientSampleId :

Tgt Ion:172 Resp: 97751
 Ion Ratio Lower Upper
 172 100
 171 35.9 30.2 45.4
 170 24.7 20.9 31.3

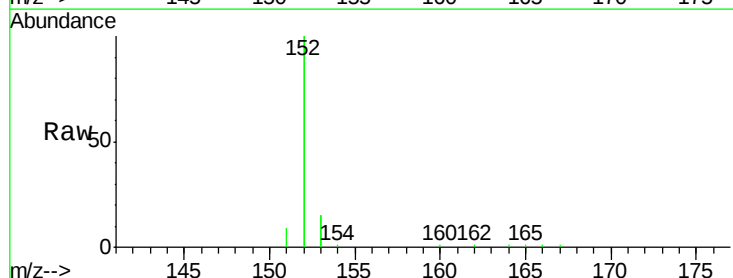


Abundance Ion 172.00 (171.70 to 172.70): E
 Ion 171.00 (170.70 to 171.70): E
 Ion 170.00 (169.70 to 170.70): E

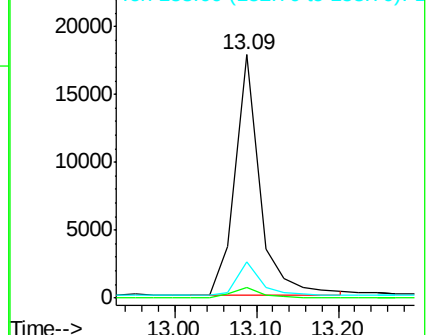
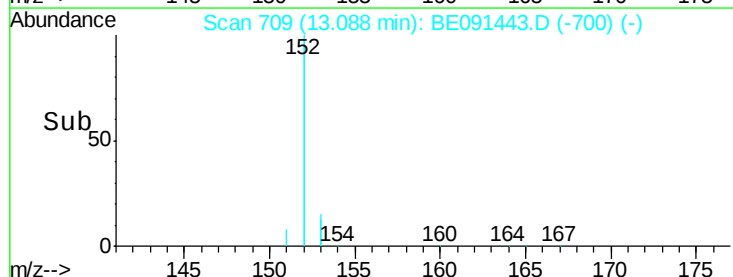


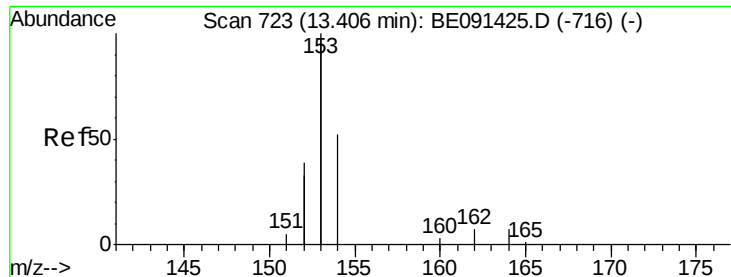
#10
 Acenaphthylene
 Concen: 0.26 ng
 RT: 13.09 min Scan# 709
 Delta R.T. 0.00 min
 Lab File: BE091443.D
 Acq: 4 Mar 2016 3:44

Tgt Ion:152 Resp: 36866
 Ion Ratio Lower Upper
 152 100
 151 4.7 3.9 5.9
 153 13.3 10.5 15.7



Abundance Ion 152.00 (151.70 to 152.70): E
 Ion 151.00 (150.70 to 151.70): E
 Ion 153.00 (152.70 to 153.70): E





#11

Acenaphthene

Concen: 0.29 ng

RT: 13.41 min Scan# 723

Delta R.T. 0.00 min

Lab File: BE091443.D

Acq: 4 Mar 2016 3:44

Instrument :

BNA_E

ClientSampleId :

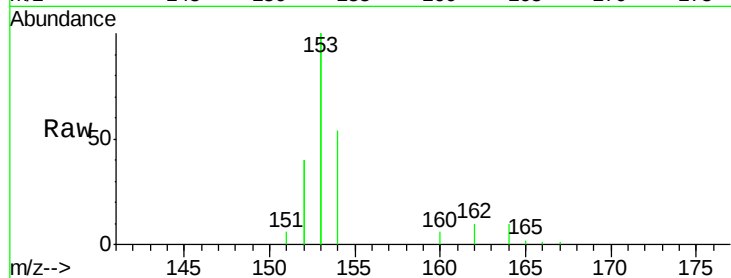
Tgt Ion:154 Resp: 7265

Ion Ratio Lower Upper

154 100

153 433.0 0.0 0.0#

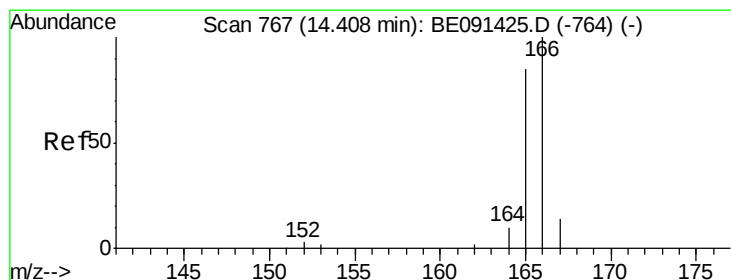
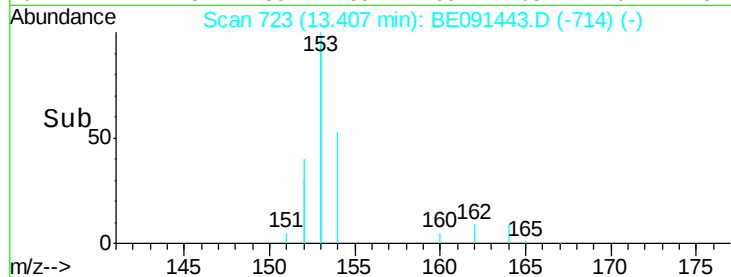
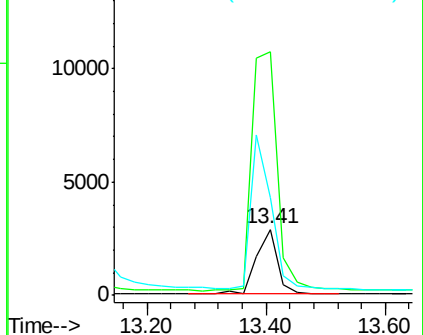
152 0.0 0.0 0.0



Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E



#12

Fluorene

Concen: 0.26 ng

RT: 14.41 min Scan# 767

Delta R.T. 0.00 min

Lab File: BE091443.D

Acq: 4 Mar 2016 3:44

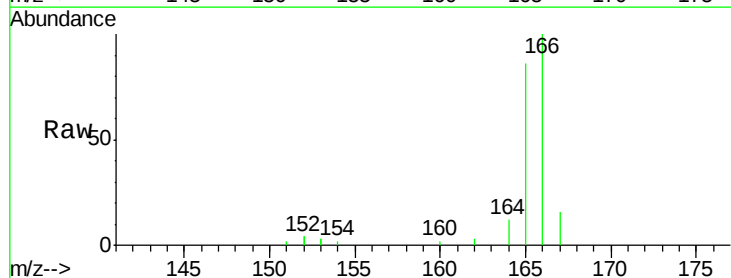
Tgt Ion:166 Resp: 8404

Ion Ratio Lower Upper

166 100

165 100.3 79.4 119.2

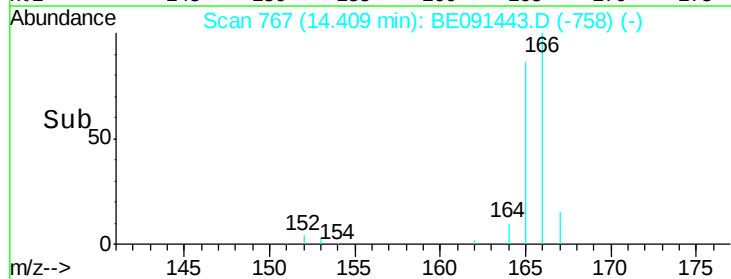
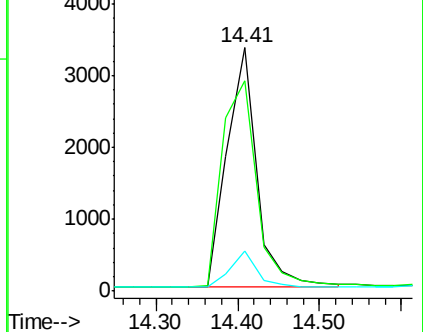
167 13.9 10.7 16.1

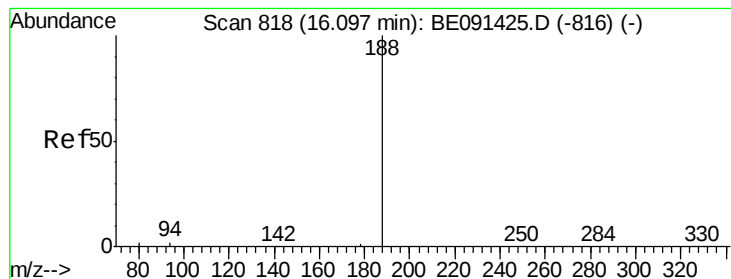


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E





#13

Phenanthrene-d10

Concen: 5.00 ng

RT: 16.10 min Scan# 818

Delta R.T. 0.00 min

Lab File: BE091443.D

Acq: 4 Mar 2016 3:44

Instrument :

BNA_E

ClientSampleId :

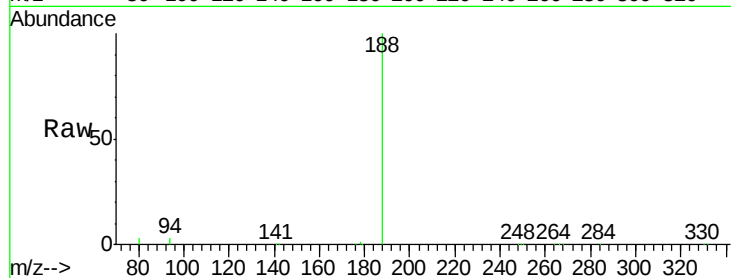
Tgt Ion:188 Resp: 133306

Ion Ratio Lower Upper

188 100

94 2.8 2.1 3.1

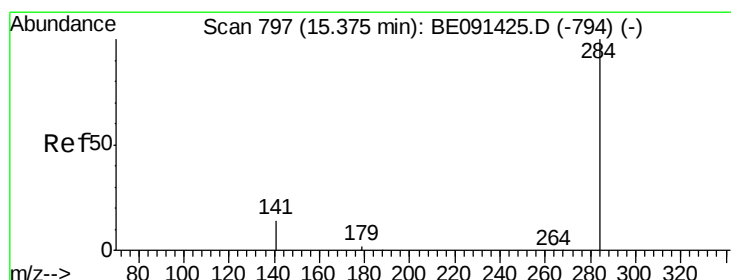
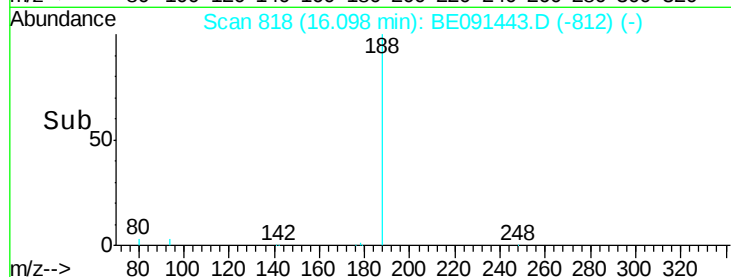
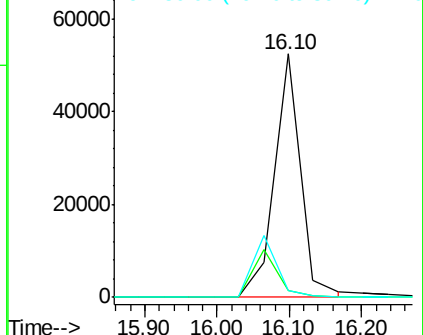
80 2.7 1.9 2.9



Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BE0

Ion 80.00 (79.70 to 80.70): BE0



#14

Hexachlorobenzene

Concen: 0.28 ng

RT: 15.38 min Scan# 797

Delta R.T. 0.00 min

Lab File: BE091443.D

Acq: 4 Mar 2016 3:44

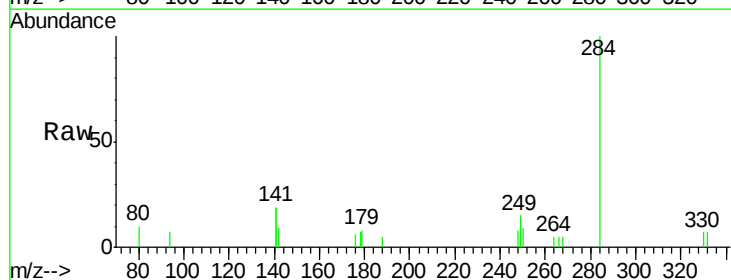
Tgt Ion:284 Resp: 2228

Ion Ratio Lower Upper

284 100

142 0.0 0.0 0.0

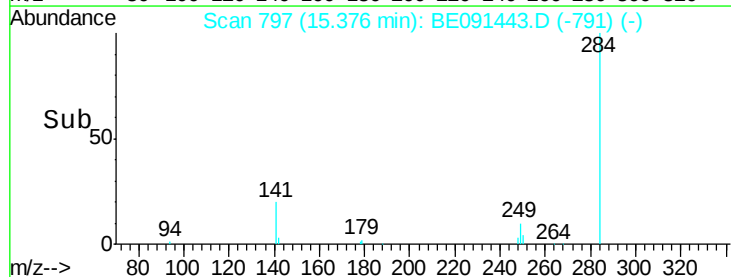
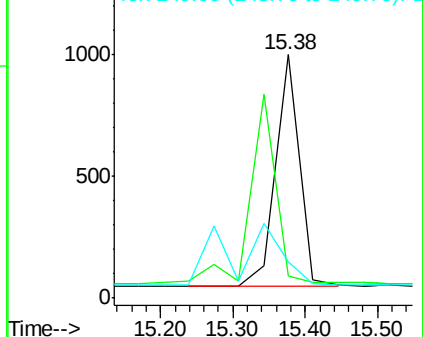
249 0.0 0.0 0.0

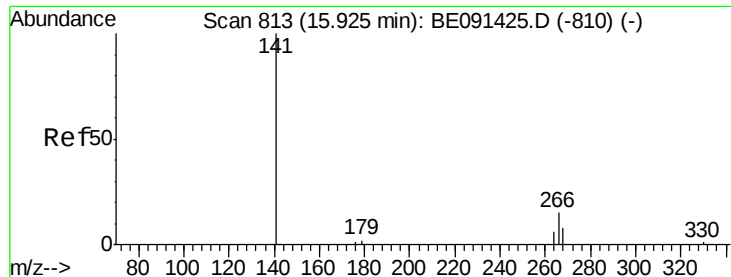


Abundance Ion 283.80 (283.50 to 284.50): E

Ion 142.00 (141.70 to 142.70): E

Ion 249.00 (248.70 to 249.70): E





#15

Pentachlorophenol

Concen: 0.60 ng

RT: 15.89 min Scan# 812

Delta R.T. -0.03 min

Lab File: BE091443.D

Acq: 4 Mar 2016 3:44

Instrument :

BNA_E

ClientSampleId :

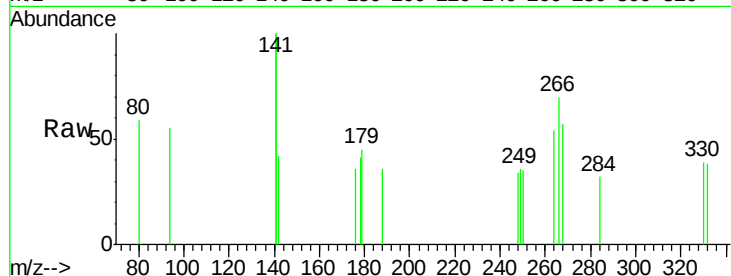
Tgt Ion: 266 Resp: 299

Ion Ratio Lower Upper

266 100

268 80.8 73.0 109.6

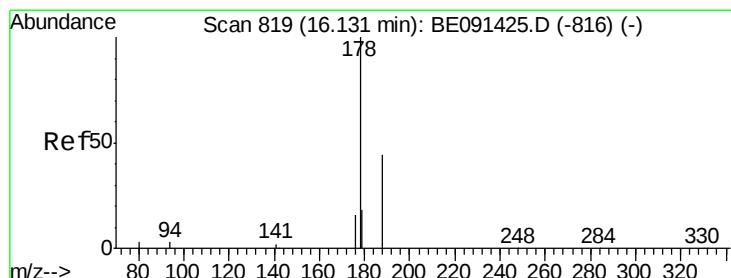
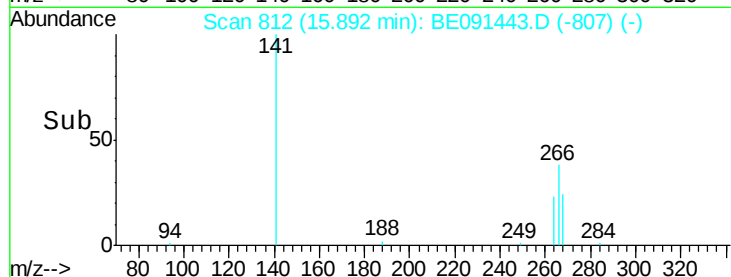
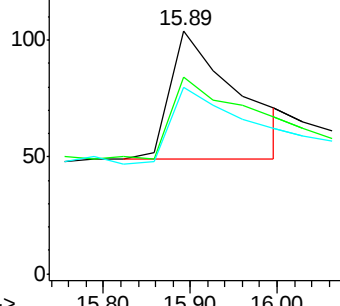
264 76.9 66.1 99.1



Abundance Ion 265.70 (265.40 to 266.40): E

Ion 268.00 (267.70 to 268.70): E

Ion 264.00 (263.70 to 264.70): E



#16

Phenanthrene

Concen: 0.32 ng

RT: 16.13 min Scan# 819

Delta R.T. 0.00 min

Lab File: BE091443.D

Acq: 4 Mar 2016 3:44

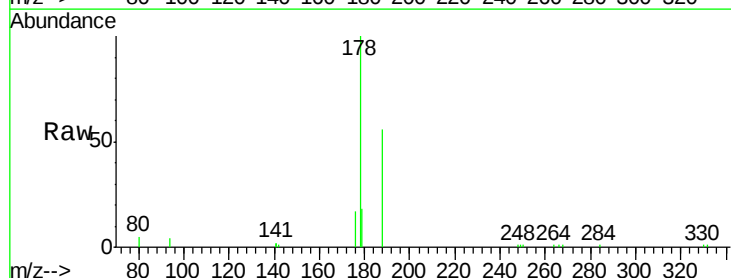
Tgt Ion: 178 Resp: 15135

Ion Ratio Lower Upper

178 100

176 16.9 13.8 20.8

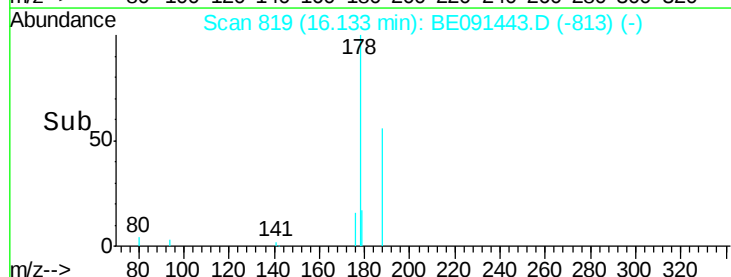
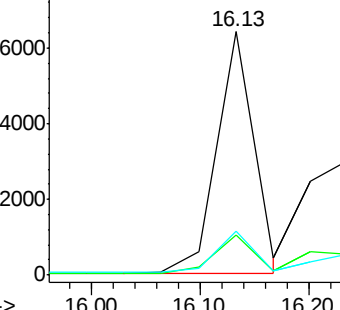
179 17.5 14.2 21.4

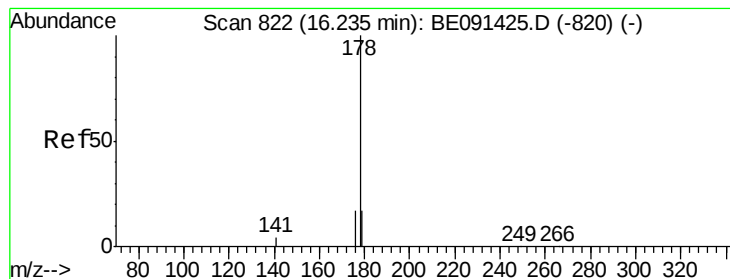


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#17

Anthracene

Concen: 0.40 ng

RT: 16.13 min Scan# 819

Delta R.T. -0.10 min

Lab File: BE091443.D

Acq: 4 Mar 2016 3:44

Instrument :

BNA_E

ClientSampleId :

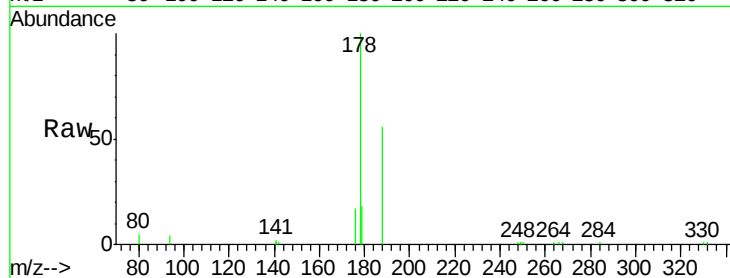
Tgt Ion:178 Resp: 23461

Ion Ratio Lower Upper

178 100

176 17.6 24.4 36.6#

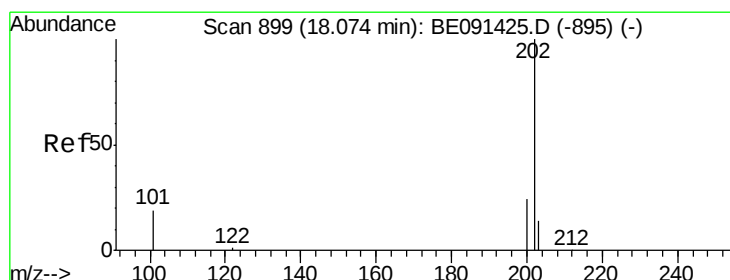
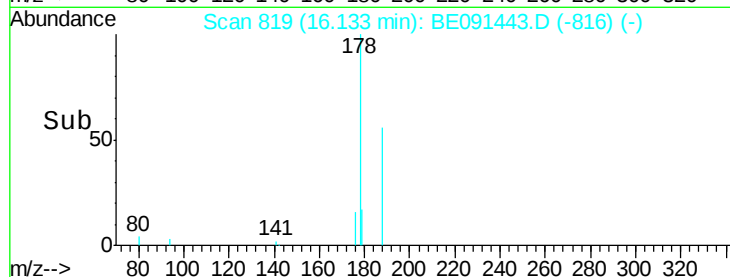
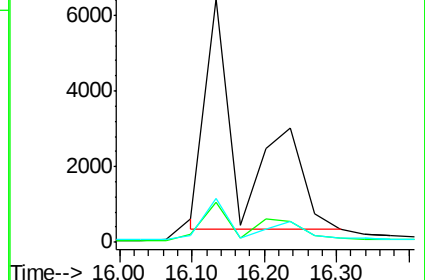
179 10.0 14.8 22.2#



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



#18

Fluoranthene

Concen: 0.32 ng

RT: 18.09 min Scan# 900

Delta R.T. 0.02 min

Lab File: BE091443.D

Acq: 4 Mar 2016 3:44

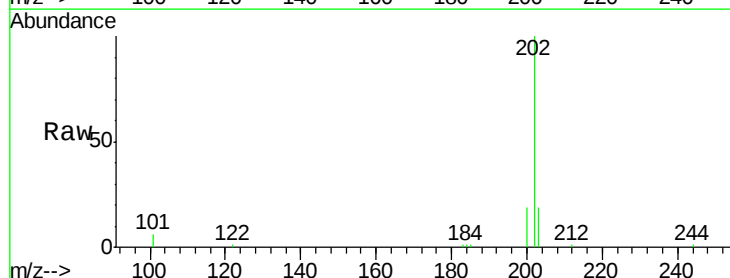
Tgt Ion:202 Resp: 18011

Ion Ratio Lower Upper

202 100

101 12.0 11.0 16.6

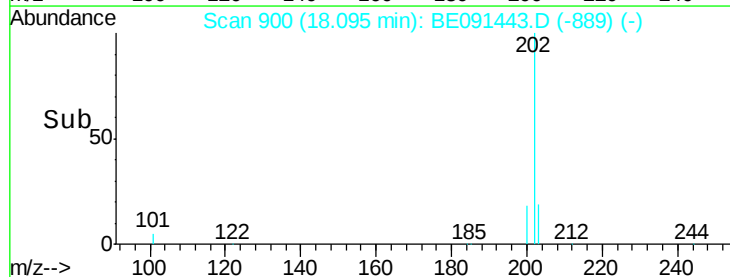
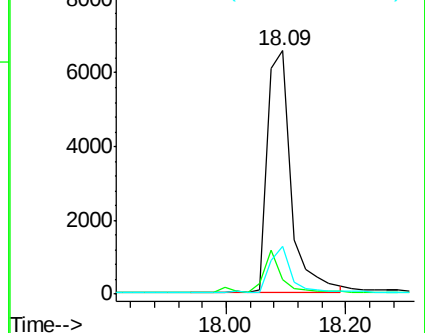
203 17.1 13.7 20.5

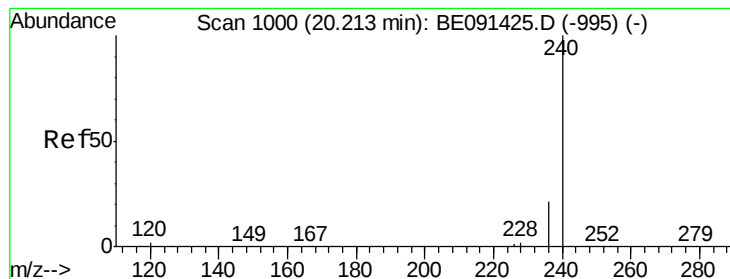


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E





#19

Chrysene-d12

Concen: 5.00 ng

RT: 20.21 min Scan# 1000

Delta R.T. -0.00 min

Lab File: BE091443.D

Acq: 4 Mar 2016 3:44

Instrument :

BNA_E

ClientSampleId :

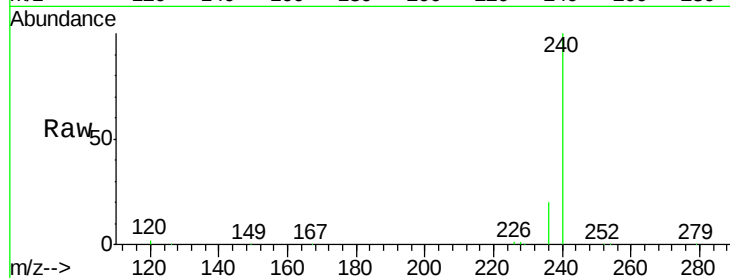
Tgt Ion:240 Resp: 236642

Ion Ratio Lower Upper

240 100

120 1.7 1.4 2.0

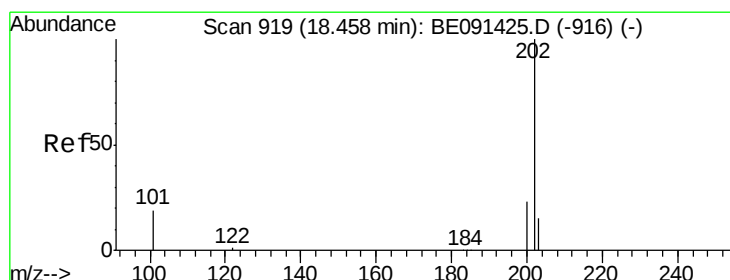
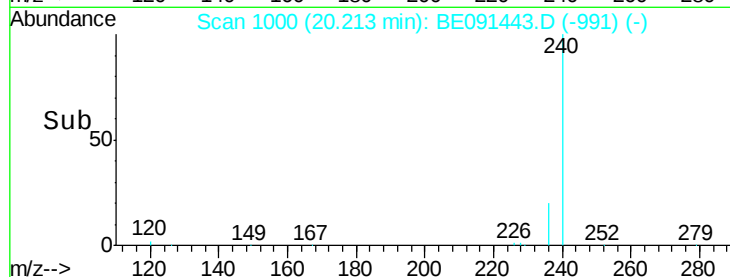
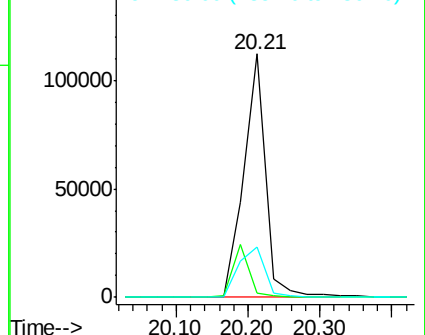
236 20.4 16.7 25.1



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



#20

Pyrene

Concen: 0.28 ng

RT: 18.46 min Scan# 919

Delta R.T. 0.00 min

Lab File: BE091443.D

Acq: 4 Mar 2016 3:44

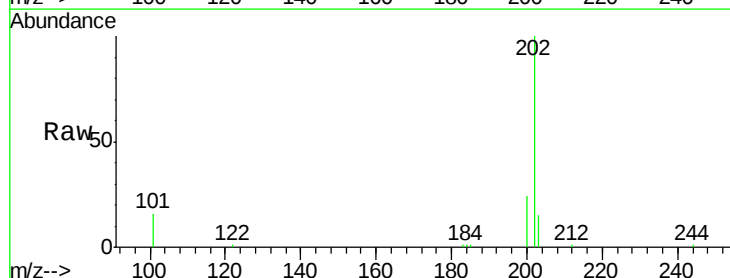
Tgt Ion:202 Resp: 19199

Ion Ratio Lower Upper

202 100

200 21.0 16.5 24.7

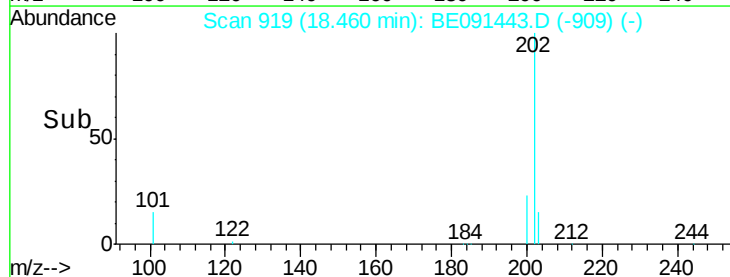
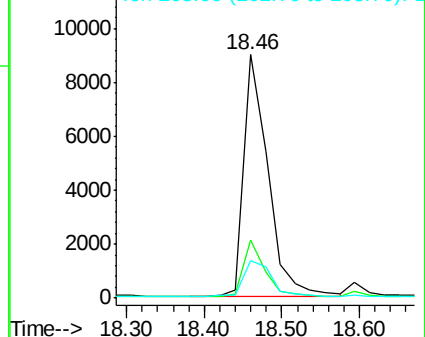
203 17.5 13.8 20.6

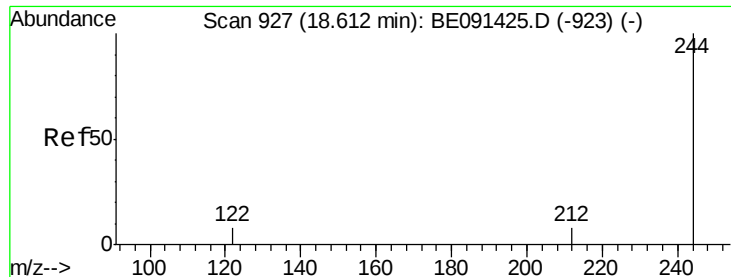


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E

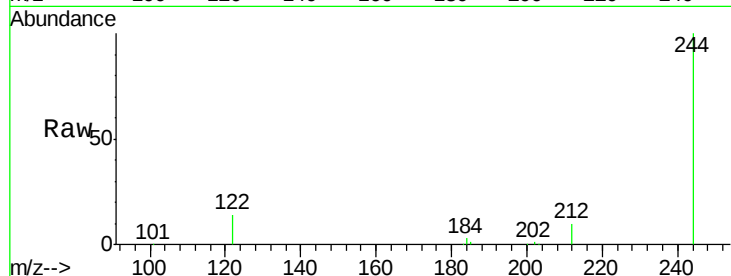




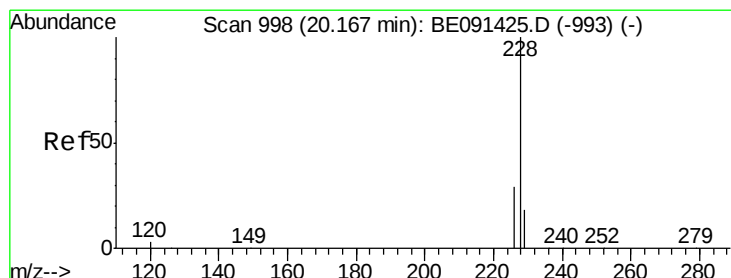
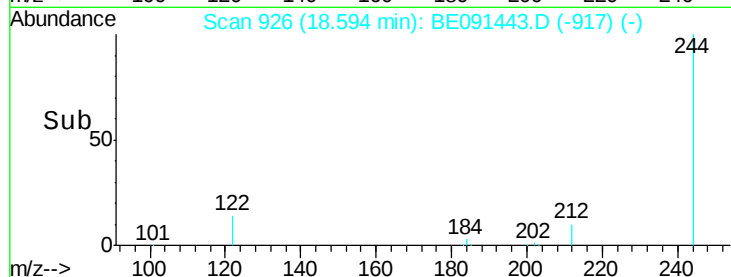
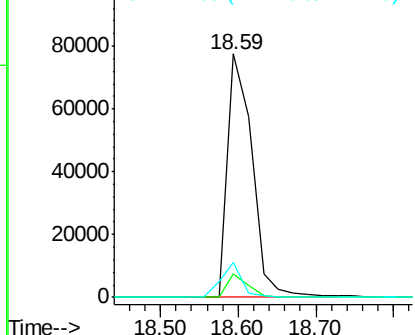
#21
 Terphenyl-d14
 Concen: 4.74 ng
 RT: 18.59 min Scan# 926
 Delta R.T. -0.02 min
 Lab File: BE091443.D
 Acq: 4 Mar 2016 3:44

Instrument :
 BNA_E
 ClientSampleId :

Tgt Ion: 244 Resp: 170598
 Ion Ratio Lower Upper
 244 100
 212 9.8 7.0 10.6
 122 14.2 6.8 10.2#

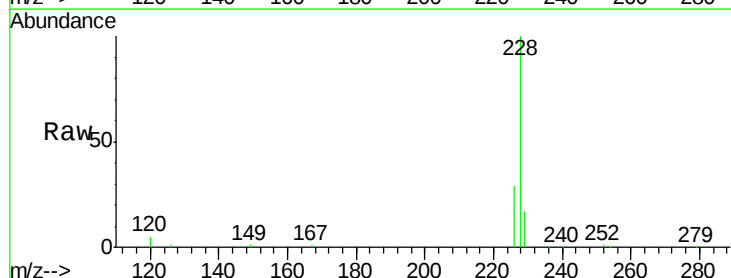


Abundance Ion 244.00 (243.70 to 244.70): E
 Ion 212.00 (211.70 to 212.70): E
 Ion 122.00 (121.70 to 122.70): E

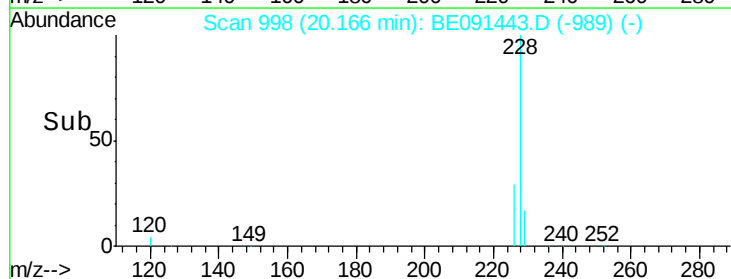
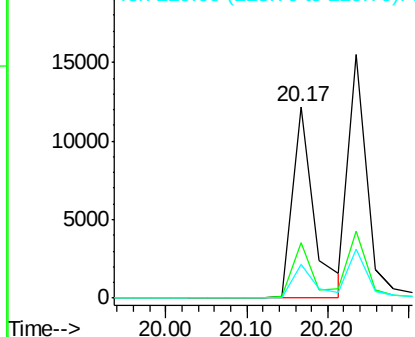


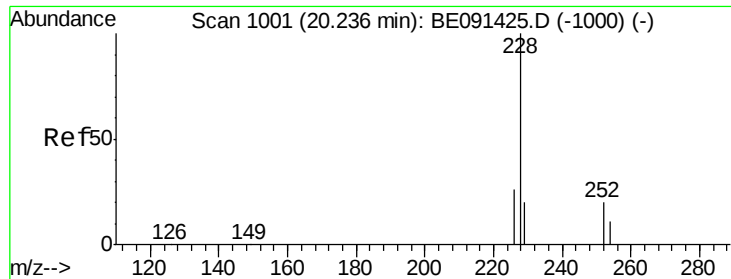
#22
 Benzo(a)anthracene
 Concen: 0.27 ng
 RT: 20.17 min Scan# 998
 Delta R.T. -0.00 min
 Lab File: BE091443.D
 Acq: 4 Mar 2016 3:44

Tgt Ion: 228 Resp: 22115
 Ion Ratio Lower Upper
 228 100
 226 29.0 23.1 34.7
 229 17.4 14.5 21.7



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

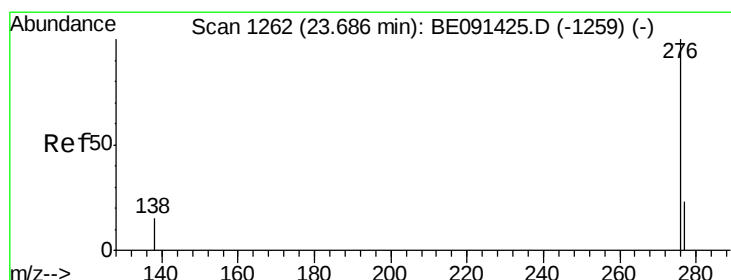
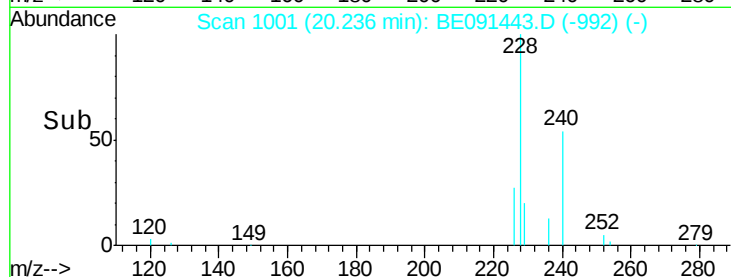
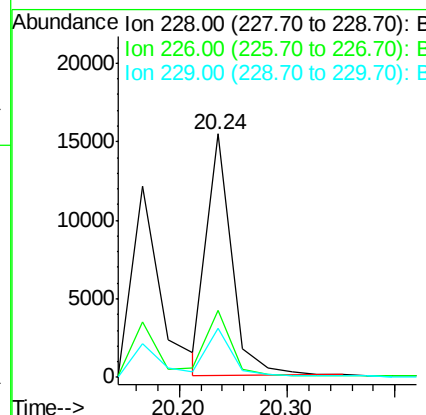
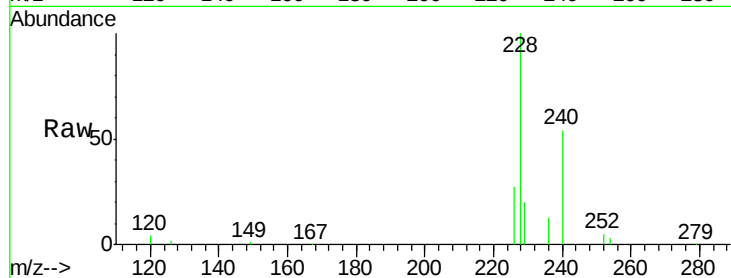




#23
Chrysene
Concen: 0.28 ng
RT: 20.24 min Scan# 1001
Delta R.T. -0.00 min
Lab File: BE091443.D
Acq: 4 Mar 2016 3:44

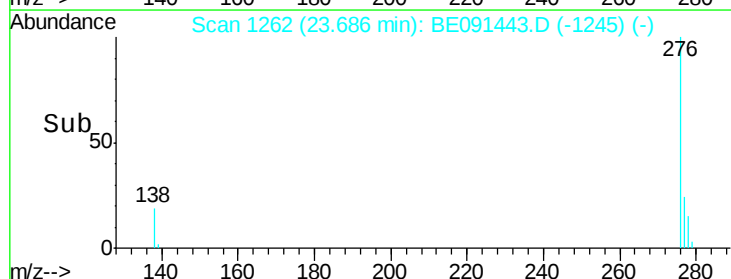
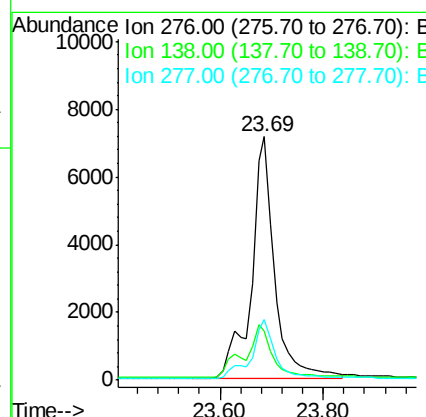
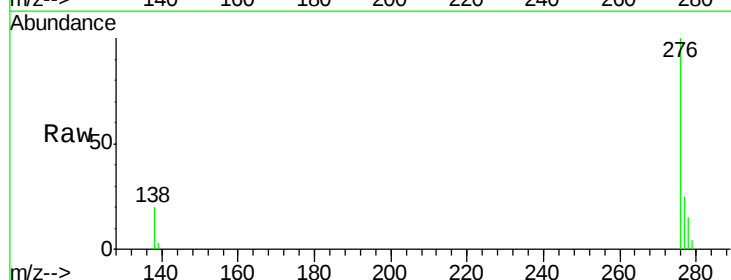
Instrument :
BNA_E
ClientSampleId :

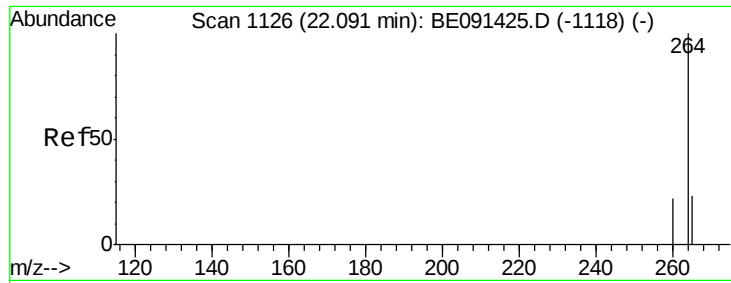
Tgt Ion:228 Resp: 24520
Ion Ratio Lower Upper
228 100
226 27.5 22.0 33.0
229 20.2 16.2 24.2



#24
Indeno(1,2,3-cd)pyrene
Concen: 0.31 ng
RT: 23.69 min Scan# 1262
Delta R.T. -0.00 min
Lab File: BE091443.D
Acq: 4 Mar 2016 3:44

Tgt Ion:276 Resp: 22414
Ion Ratio Lower Upper
276 100
138 17.4 16.1 24.1
277 24.8 22.9 34.3

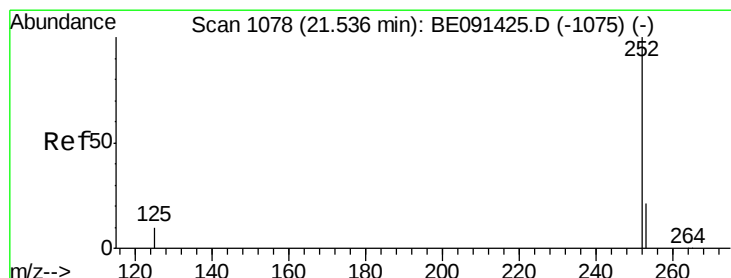
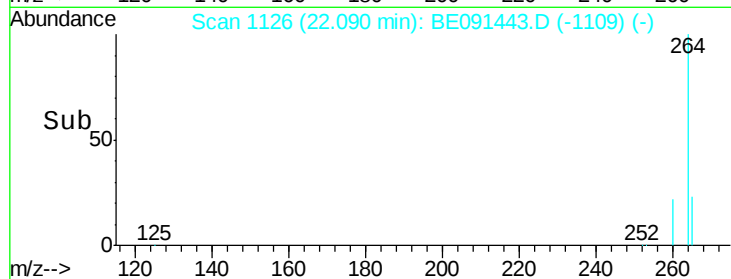
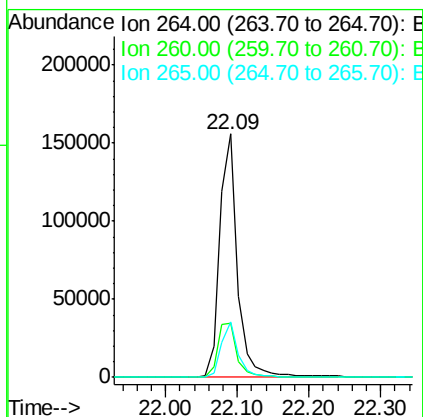
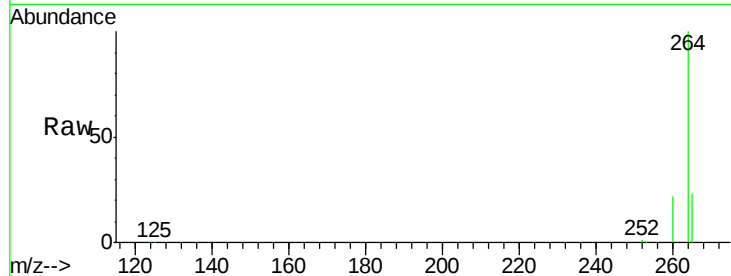




#25
Perylene-d12
Concen: 5.00 ng
RT: 22.09 min Scan# 1126
Delta R.T. -0.00 min
Lab File: BE091443.D
Acq: 4 Mar 2016 3:44

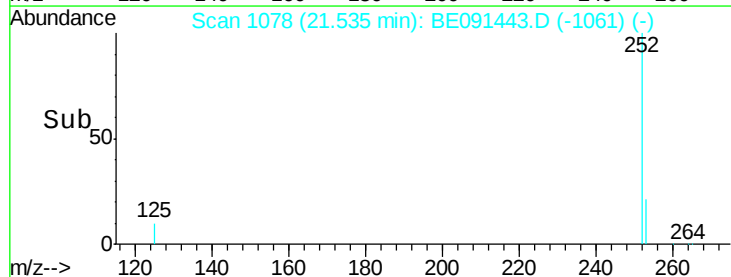
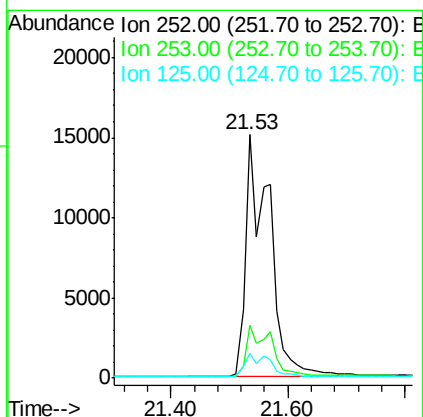
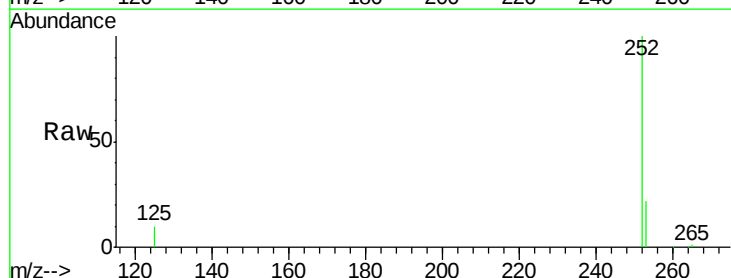
Instrument :
BNA_E
ClientSampleId :

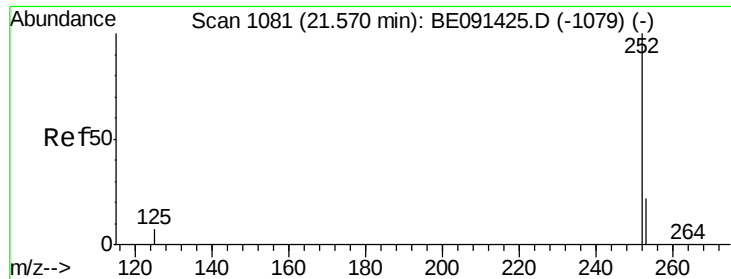
Tgt Ion: 264 Resp: 267554
Ion Ratio Lower Upper
264 100
260 22.1 18.0 27.0
265 22.7 18.2 27.4



#26
Benzo(b)fluoranthene
Concen: 0.57 ng
RT: 21.53 min Scan# 1078
Delta R.T. -0.00 min
Lab File: BE091443.D
Acq: 4 Mar 2016 3:44

Tgt Ion: 252 Resp: 42733
Ion Ratio Lower Upper
252 100
253 21.7 17.0 25.4
125 10.4 8.3 12.5

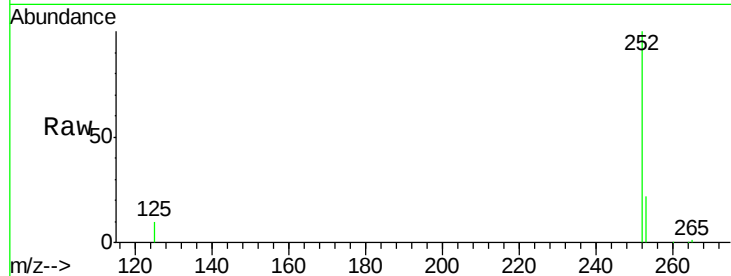




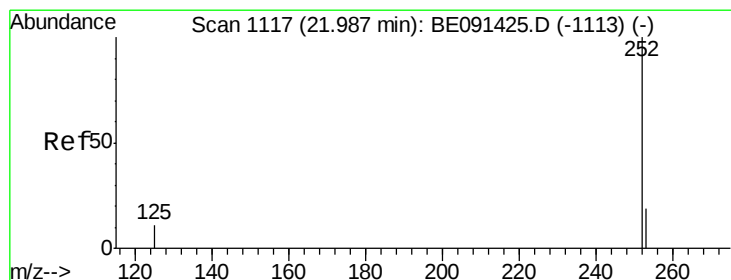
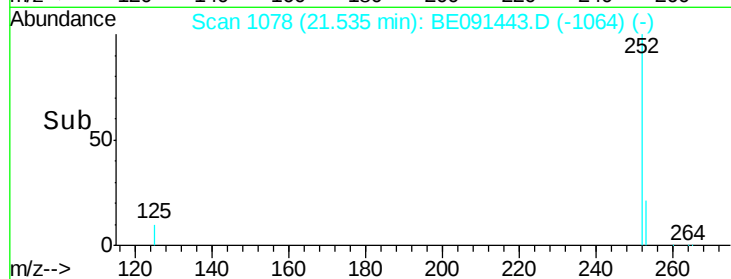
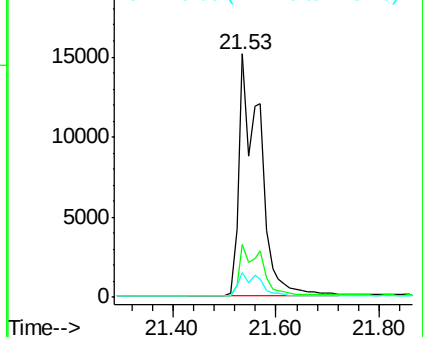
#27
Benzo(k)fluoranthene
Concen: 0.60 ng
RT: 21.53 min Scan# 1078
Delta R.T. -0.04 min
Lab File: BE091443.D
Acq: 4 Mar 2016 3:44

Instrument :
BNA_E
ClientSampleId :

Tgt Ion: 252 Resp: 43055
Ion Ratio Lower Upper
252 100
253 21.7 19.5 29.3
125 10.4 7.3 10.9

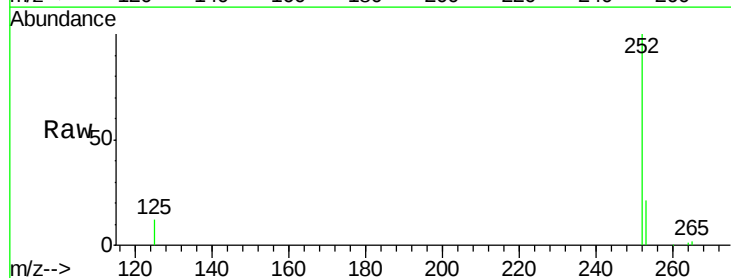


Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E

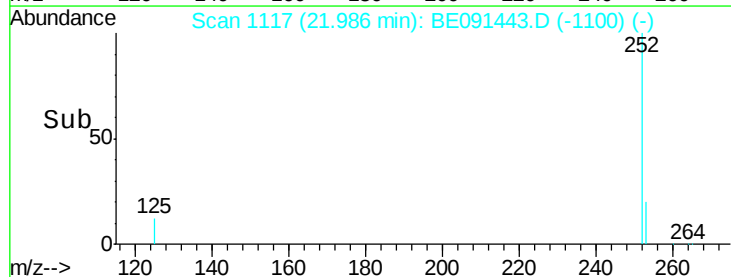
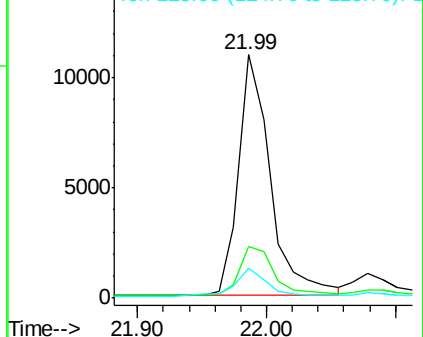


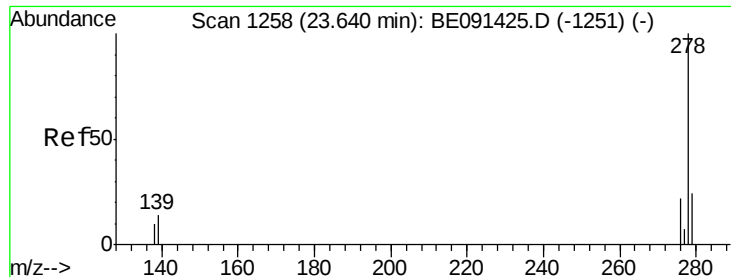
#28
Benzo(a)pyrene
Concen: 0.29 ng
RT: 21.99 min Scan# 1117
Delta R.T. -0.00 min
Lab File: BE091443.D
Acq: 4 Mar 2016 3:44

Tgt Ion: 252 Resp: 18848
Ion Ratio Lower Upper
252 100
253 21.0 16.2 24.4
125 12.2 9.6 14.4



Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E





#29

Dibenzo(a,h)anthracene

Concen: 0.28 ng

RT: 23.64 min Scan# 1258

Delta R.T. -0.00 min

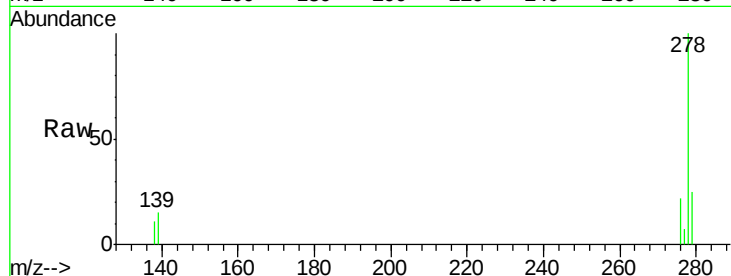
Lab File: BE091443.D

Acq: 4 Mar 2016 3:44

Instrument :

BNA_E

ClientSampleId :



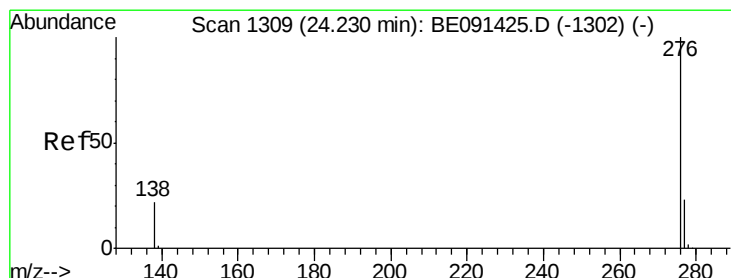
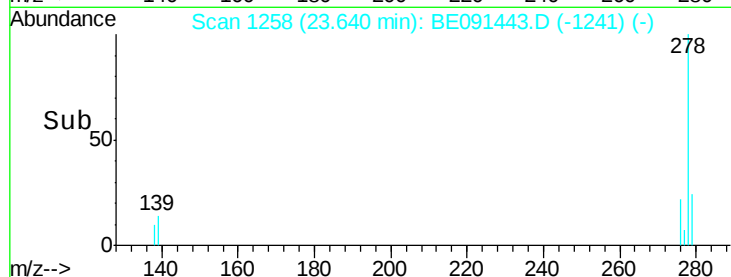
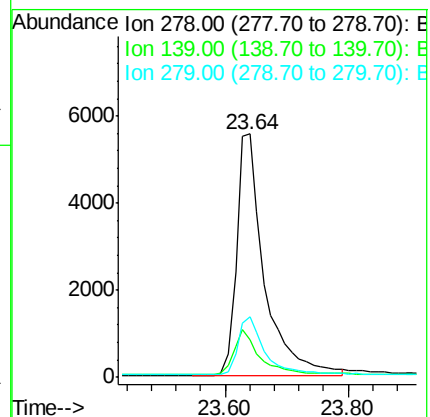
Tgt Ion: 278 Resp: 17329

Ion Ratio Lower Upper

278 100

139 15.3 12.1 18.1

279 24.7 19.4 29.0



#30

Benzo(g,h,i)perylene

Concen: 0.29 ng

RT: 24.23 min Scan# 1309

Delta R.T. -0.00 min

Lab File: BE091443.D

Acq: 4 Mar 2016 3:44

Tgt Ion: 276 Resp: 19457

Ion Ratio Lower Upper

276 100

277 22.9 19.0 28.6

138 23.9 18.2 27.4

