

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE030316\
 Data File : BE091425.D
 Acq On : 3 Mar 2016 16:38
 Operator : UM/IZ
 Sample : SSTDICCC0.4
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 SSTDICCC0.4

Quant Time: Mar 04 03:18:45 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 03:11:46 2016
 Response via : Initial Calibration

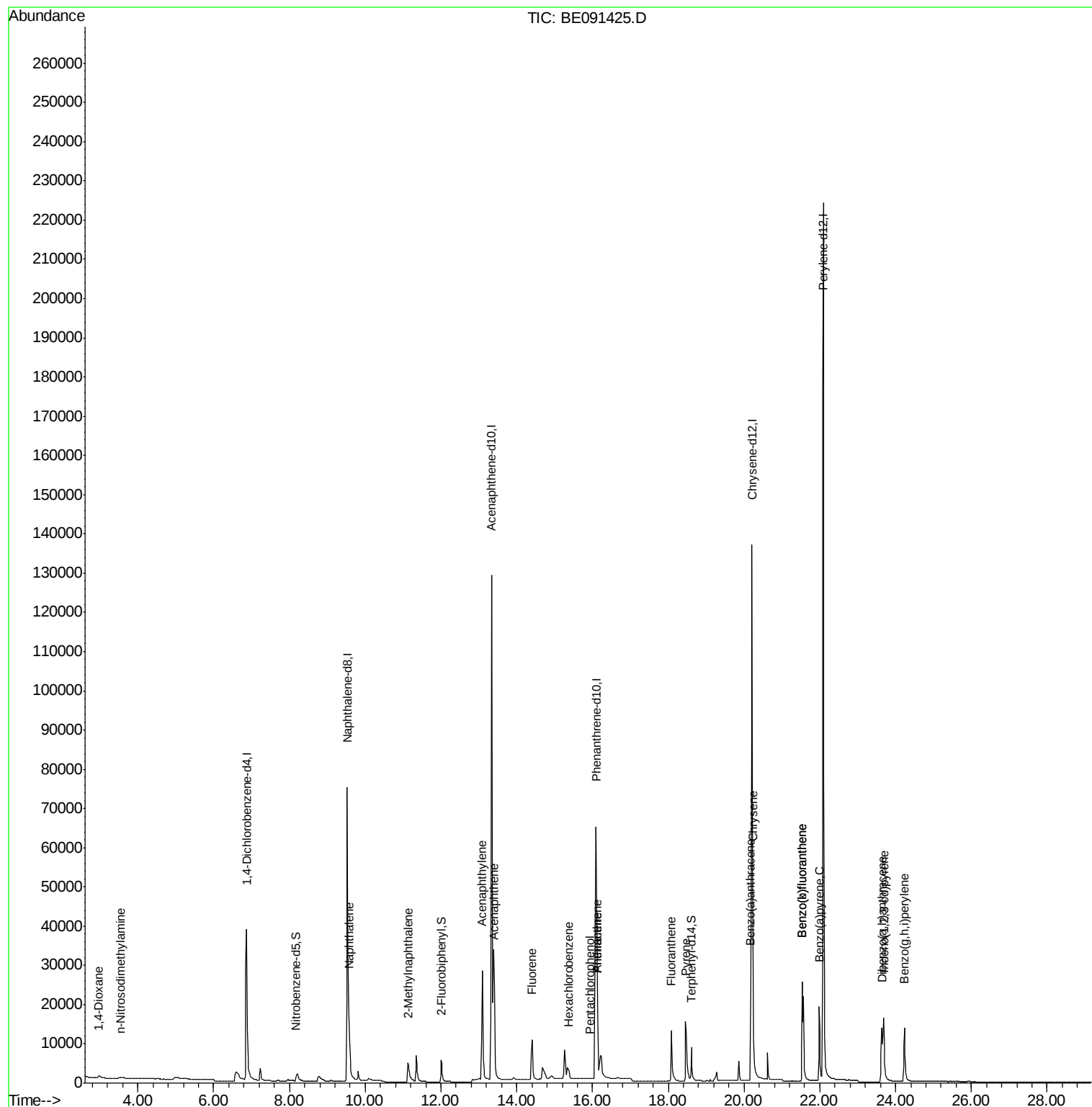
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.87	152	30111	5.00	ng	0.00
4) Naphthalene-d8	9.53	136	141148	5.00	ng	0.00
8) Acenaphthene-d10	13.34	164	87898	5.00	ng	0.00
13) Phenanthrene-d10	16.10	188	146349	5.00	ng	0.00
19) Chrysene-d12	20.21	240	226579	5.00	ng	0.00
25) Perylene-d12	22.09	264	267165	5.00	ng	0.00
System Monitoring Compounds						
5) Nitrobenzene-d5	8.18	82	2634	0.34	ng	0.00
9) 2-Fluorobiphenyl	12.00	172	8304	0.36	ng	0.00
21) Terphenyl-d14	18.61	244	13560	0.40	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.97	88	939	0.19	ng	99
3) n-Nitrosodimethylamine	3.54	42	1029	2.46	ng	# 97
6) Naphthalene	9.57	128	13931	0.46	ng	100
7) 2-Methylnaphthalene	11.14	142	9398	0.52	ng	100
10) Acenaphthylene	13.09	152	52635	0.45	ng	100
11) Acenaphthene	13.41	154	9674	0.45	ng	# 100
12) Fluorene	14.41	166	12175	0.43	ng	100
14) Hexachlorobenzene	15.38	284	3168	0.47	ng	# 100
15) Pentachlorophenol	15.93	266	138	0.21	ng	100
16) Phenanthrene	16.13	178	19749	0.53	ng	100
17) Anthracene	16.13	178	32305	0.96	ng	# 81
18) Fluoranthene	18.07	202	23260	0.63	ng	100
20) Pyrene	18.46	202	25304	0.49	ng	100
22) Benzo(a)anthracene	20.17	228	28255	0.60	ng	100
23) Chrysene	20.24	228	34457	0.54	ng	100
24) Indeno(1,2,3-cd)pyrene	23.69	276	30089	0.67	ng	94
26) Benzo(b)fluoranthene	21.54	252	56272	1.02	ng	100
27) Benzo(k)fluoranthene	21.54	252	56655	0.87	ng	94
28) Benzo(a)pyrene	21.99	252	24157	0.48	ng	100
29) Dibenzo(a,h)anthracene	23.64	278	23375	0.55	ng	100
30) Benzo(g,h,i)perylene	24.23	276	25791	0.47	ng	100

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

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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 6.87 min Scan# 246

Delta R.T. 0.00 min

Lab File: BE091425.D

Acq: 3 Mar 2016 16:38

Instrument :

BNA_E

ClientSampleId :

SSTDICCC0.4

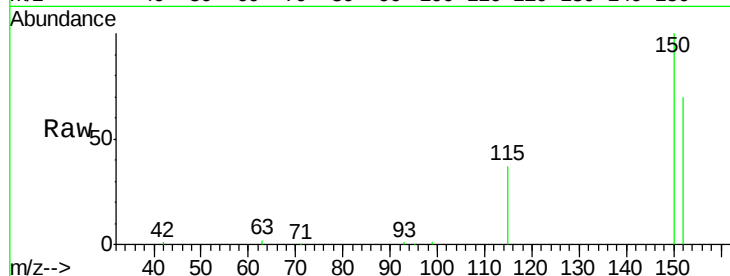
Tgt Ion:152 Resp: 30111

Ion Ratio Lower Upper

152 100

150 143.7 115.0 172.4

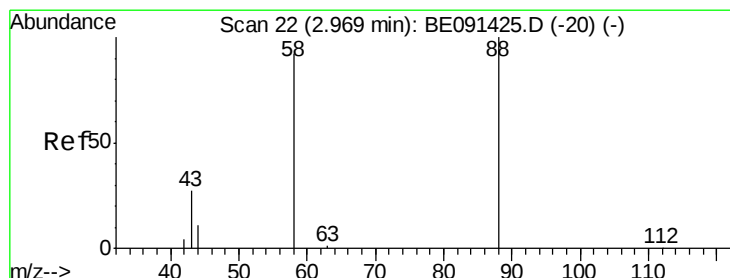
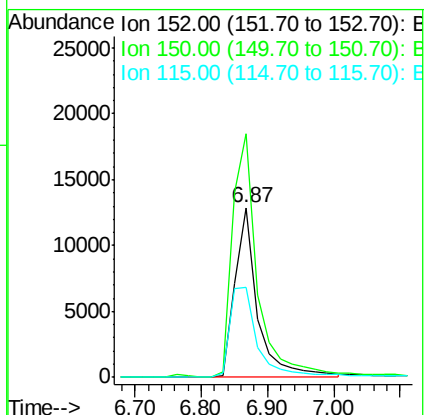
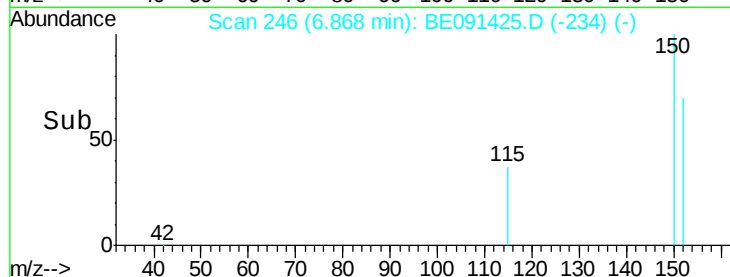
115 52.8 42.2 63.4



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



#2

1,4-Dioxane

Concen: 0.19 ng

RT: 2.97 min Scan# 22

Delta R.T. 0.00 min

Lab File: BE091425.D

Acq: 3 Mar 2016 16:38

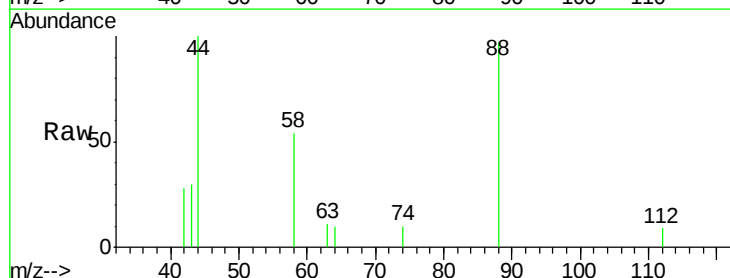
Tgt Ion: 88 Resp: 939

Ion Ratio Lower Upper

88 100

58 122.4 96.9 145.3

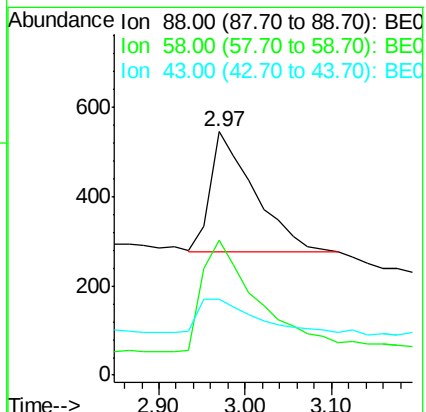
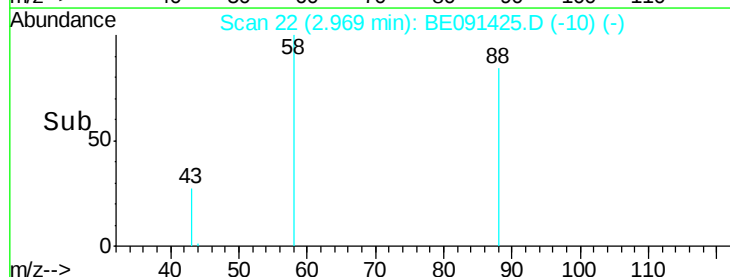
43 36.2 29.3 43.9

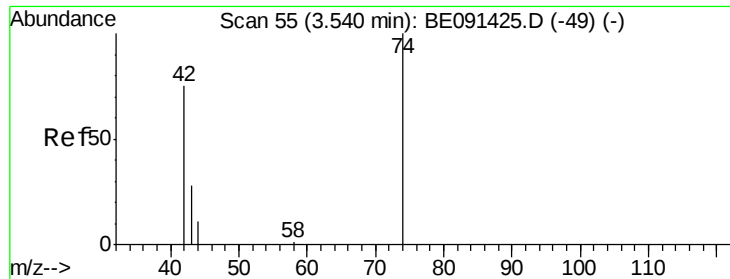


Abundance Ion 88.00 (87.70 to 88.70): BE0

Ion 58.00 (57.70 to 58.70): BE0

Ion 43.00 (42.70 to 43.70): BE0





#3

n-Nitrosodimethylamine

Concen: 2.46 ng

RT: 3.54 min Scan# 55

Delta R.T. 0.00 min

Lab File: BE091425.D

Acq: 3 Mar 2016 16:38

Instrument :

BNA_E

ClientSampleId :

SSTDICCC0.4

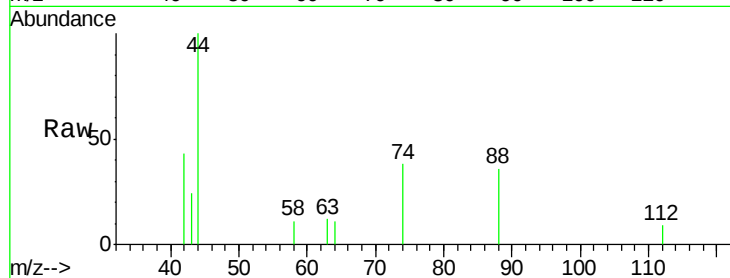
Tgt Ion: 42 Resp: 1029

Ion Ratio Lower Upper

42 100

74 117.2 96.6 144.8

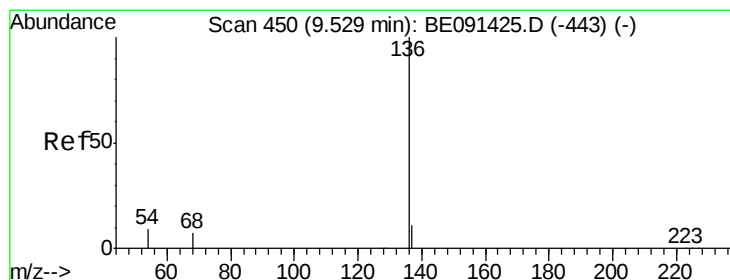
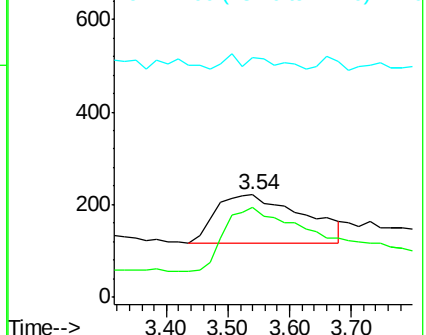
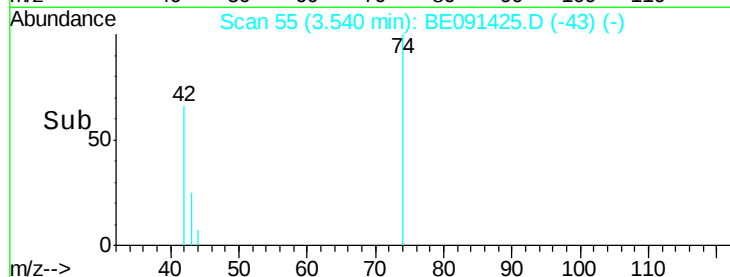
44 0.0 0.0 0.0



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: BE091425.D

Acq: 3 Mar 2016 16:38

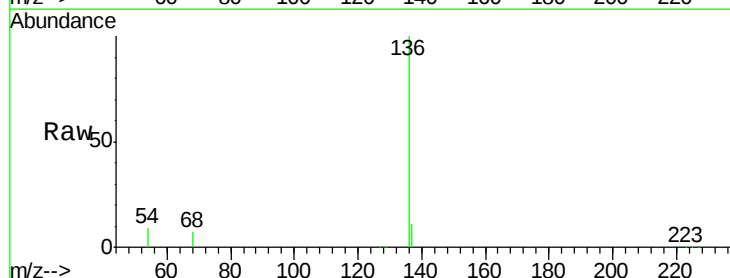
Tgt Ion: 136 Resp: 141148

Ion Ratio Lower Upper

136 100

137 10.9 8.7 13.1

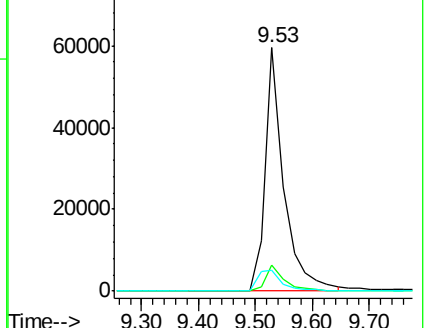
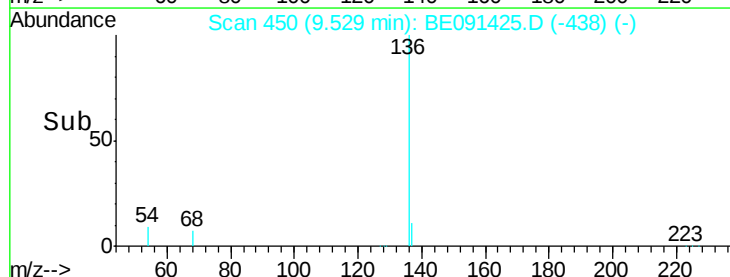
54 8.6 6.9 10.3

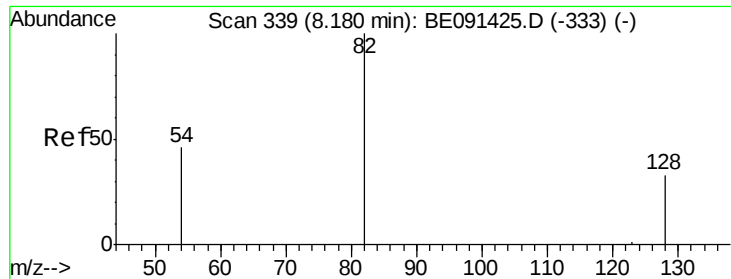


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BE0





#5

Nitrobenzene-d5

Concen: 0.34 ng

RT: 8.18 min Scan# 339

Delta R.T. 0.00 min

Lab File: BE091425.D

Acq: 3 Mar 2016 16:38

Instrument :

BNA_E

ClientSampleId :

SSTDICCC0.4

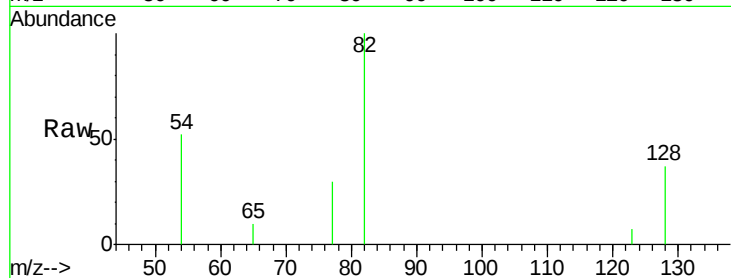
Tgt Ion: 82 Resp: 2634

Ion Ratio Lower Upper

82 100

128 37.5 30.0 45.0

54 51.9 41.5 62.3



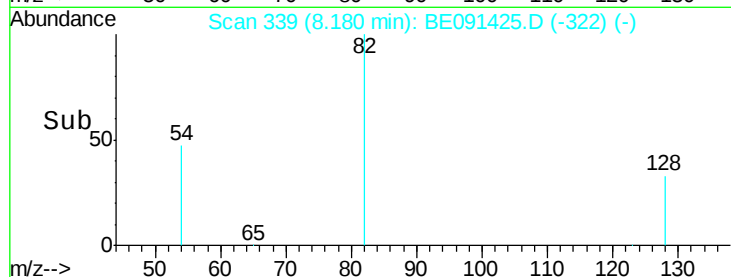
Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): BE0

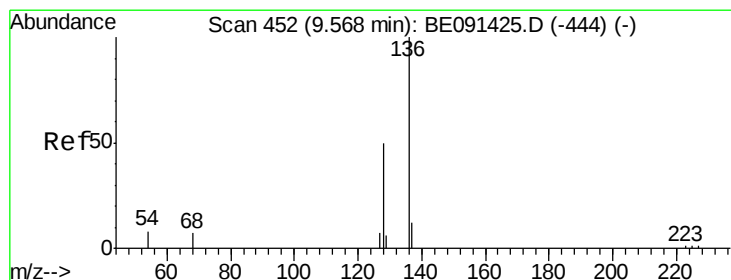
Ion 54.00 (53.70 to 54.70): BE0

8.18

Time-->



Time-->



#6

Naphthalene

Concen: 0.46 ng

RT: 9.57 min Scan# 452

Delta R.T. 0.00 min

Lab File: BE091425.D

Acq: 3 Mar 2016 16:38

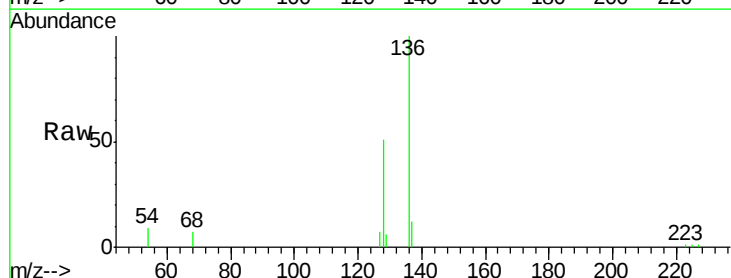
Tgt Ion: 128 Resp: 13931

Ion Ratio Lower Upper

128 100

129 11.9 9.5 14.3

127 14.2 11.4 17.0



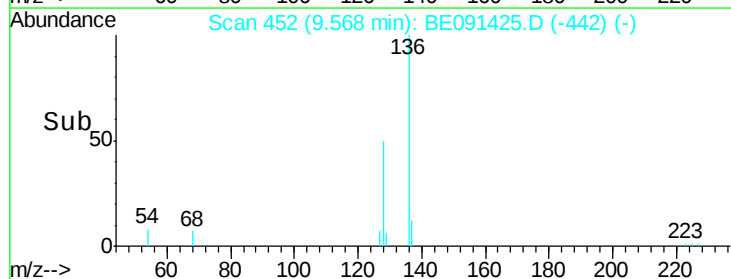
Abundance Ion 128.00 (127.70 to 128.70): BE0

Ion 129.00 (128.70 to 129.70): BE0

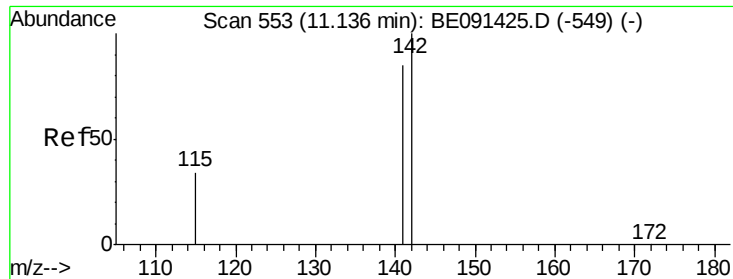
Ion 127.00 (126.70 to 127.70): BE0

9.57

Time-->



Time-->



#7

2-Methylnaphthalene

Concen: 0.52 ng

RT: 11.14 min Scan# 553

Delta R.T. 0.00 min

Lab File: BE091425.D

Acq: 3 Mar 2016 16:38

Instrument :

BNA_E

ClientSampleId :

SSTDICCC0.4

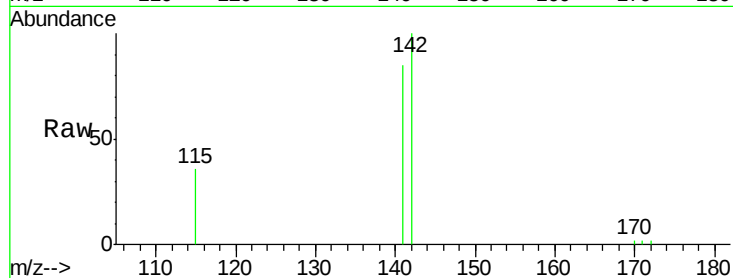
Tgt Ion:142 Resp: 9398

Ion Ratio Lower Upper

142 100

141 85.4 68.3 102.5

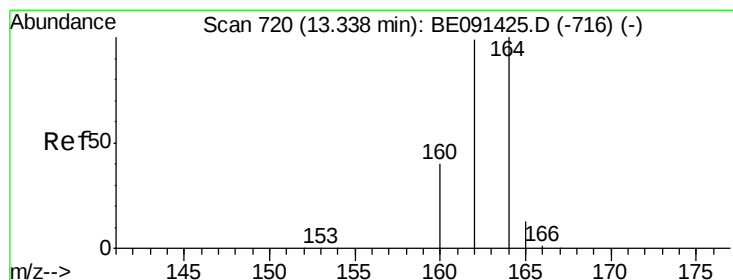
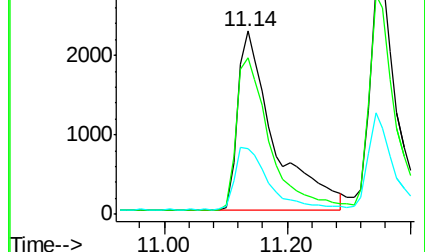
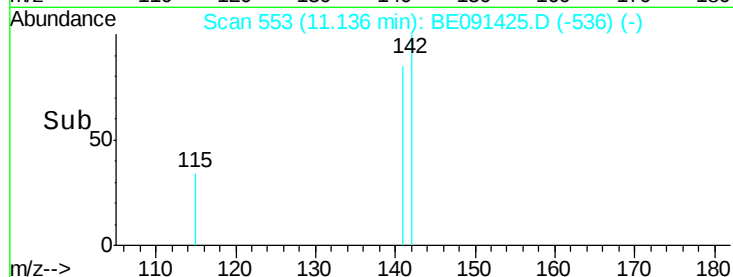
115 36.1 28.9 43.3



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: BE091425.D

Acq: 3 Mar 2016 16:38

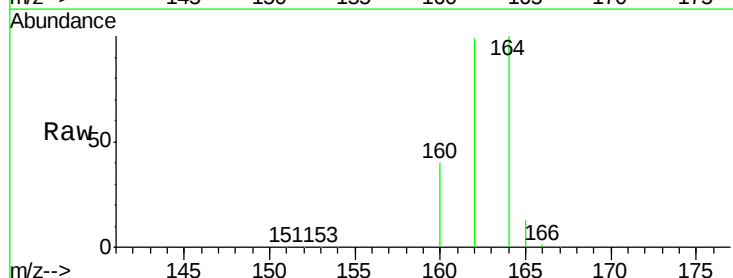
Tgt Ion:164 Resp: 87898

Ion Ratio Lower Upper

164 100

162 98.9 79.1 118.7

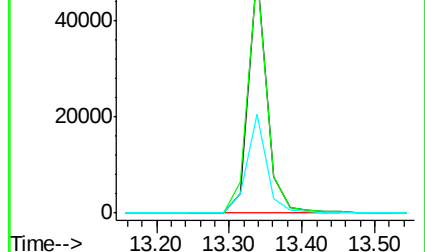
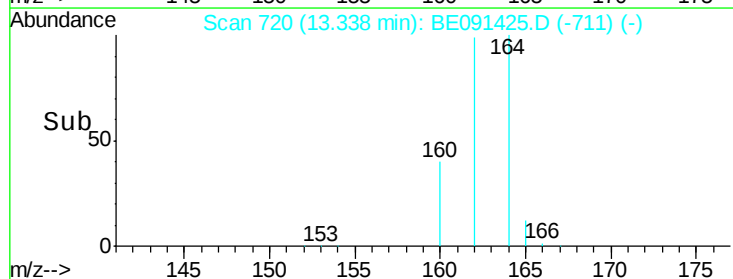
160 40.5 32.4 48.6

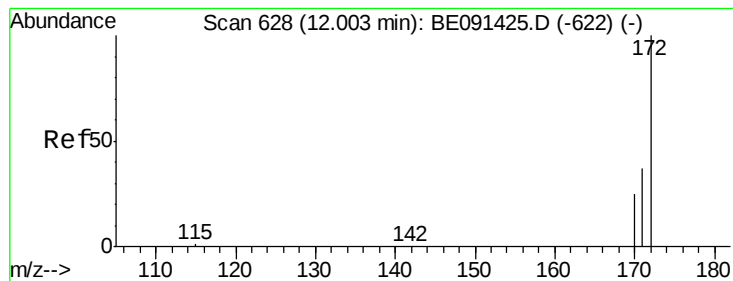


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E





#9

2-Fluorobiphenyl

Concen: 0.36 ng

RT: 12.00 min Scan# 628

Delta R.T. 0.00 min

Lab File: BE091425.D

Acq: 3 Mar 2016 16:38

Instrument :

BNA_E

ClientSampleId :

SSTDICCC0.4

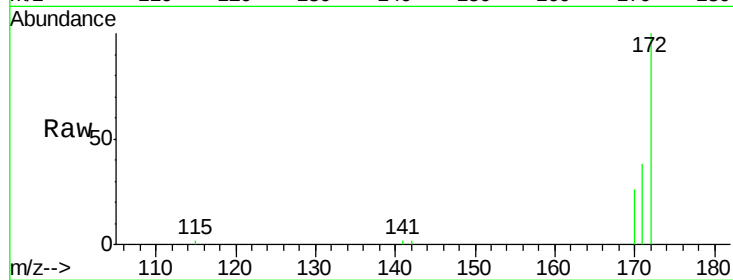
Tgt Ion:172 Resp: 8304

Ion Ratio Lower Upper

172 100

171 37.8 30.2 45.4

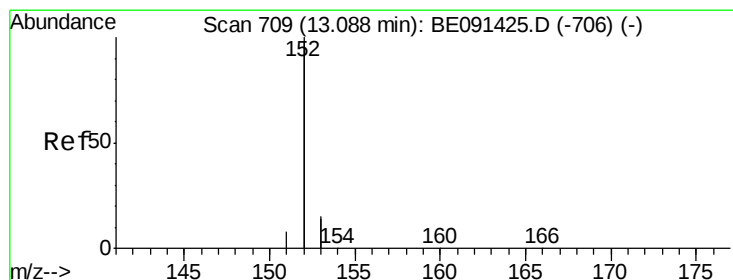
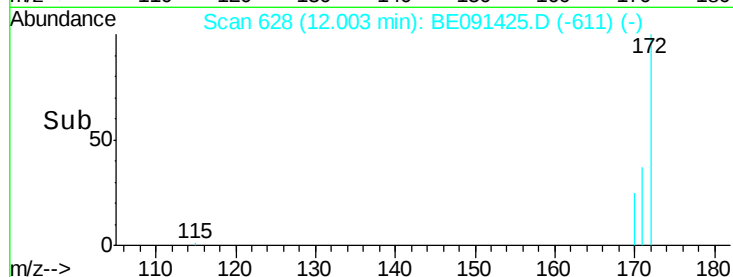
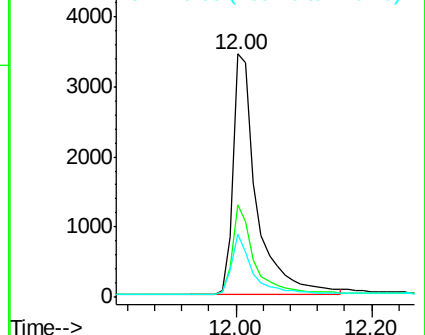
170 26.1 20.9 31.3



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: 0.45 ng

RT: 13.09 min Scan# 709

Delta R.T. 0.00 min

Lab File: BE091425.D

Acq: 3 Mar 2016 16:38

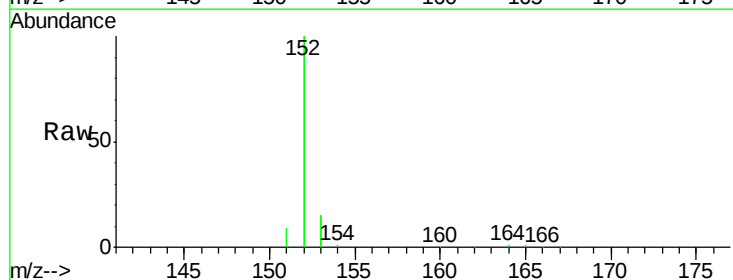
Tgt Ion:152 Resp: 52635

Ion Ratio Lower Upper

152 100

151 4.9 3.9 5.9

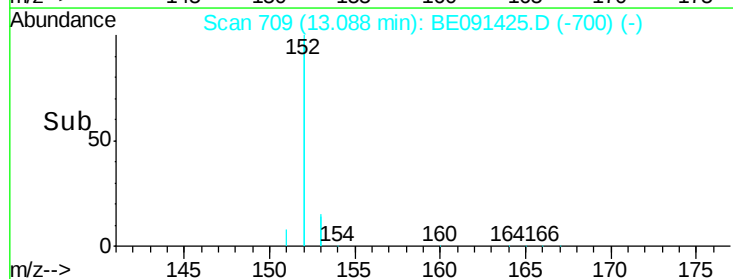
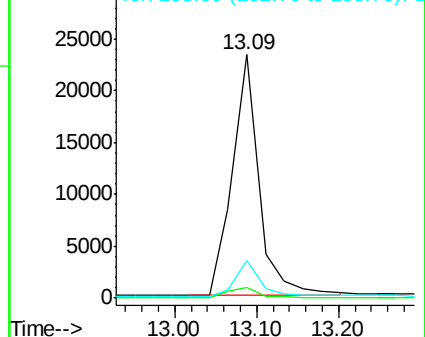
153 13.1 10.5 15.7

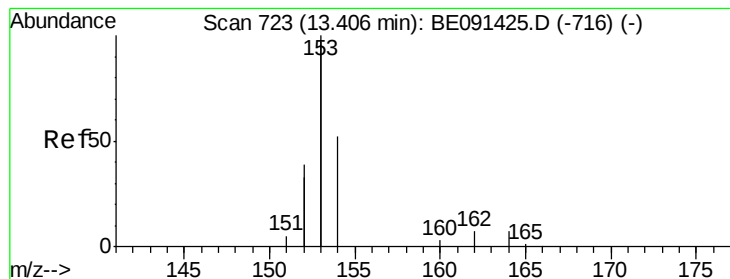


Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E





#11

Acenaphthene

Concen: 0.45 ng

RT: 13.41 min Scan# 723

Delta R.T. 0.00 min

Lab File: BE091425.D

Acq: 3 Mar 2016 16:38

Instrument :

BNA_E

ClientSampleId :

SSTDICCC0.4

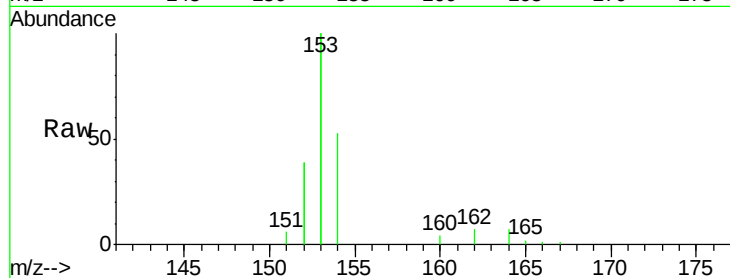
Tgt Ion:154 Resp: 9674

Ion Ratio Lower Upper

154 100

153 0.0 0.0 0.0

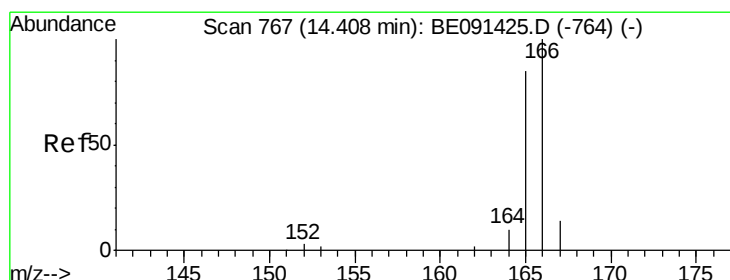
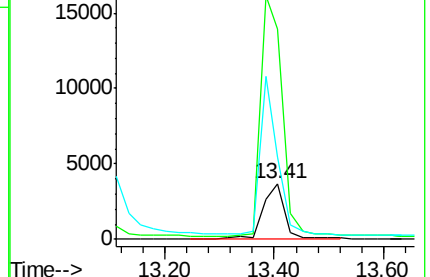
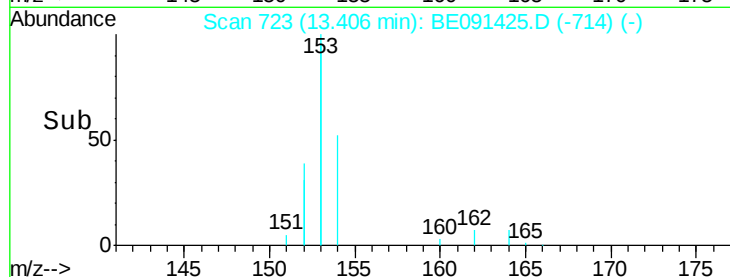
152 0.0 0.0 0.0



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: 0.43 ng

RT: 14.41 min Scan# 767

Delta R.T. 0.00 min

Lab File: BE091425.D

Acq: 3 Mar 2016 16:38

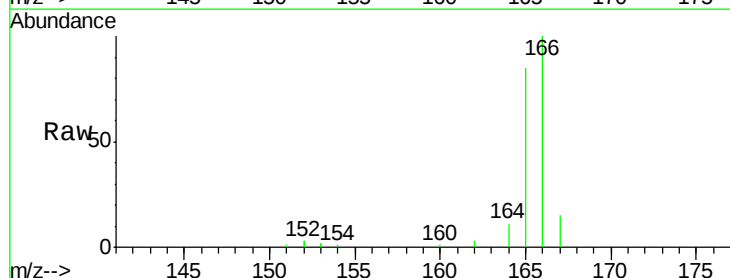
Tgt Ion:166 Resp: 12175

Ion Ratio Lower Upper

166 100

165 99.3 79.4 119.2

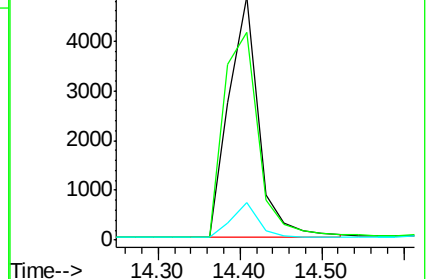
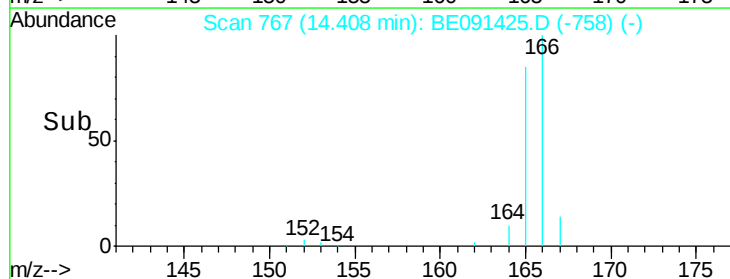
167 13.4 10.7 16.1

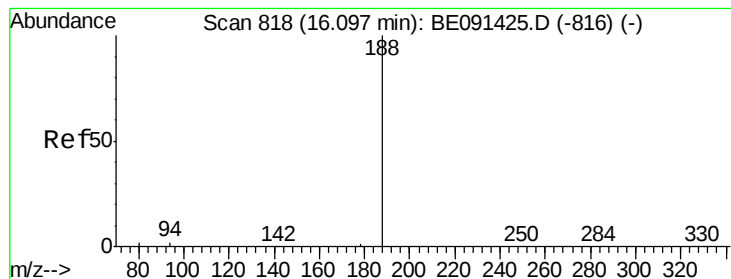


Abundance Ion 166.00 (165.70 to 166.70): E

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: BE091425.D

Acq: 3 Mar 2016 16:38

Instrument :

BNA_E

ClientSampleId :

SSTDICCC0.4

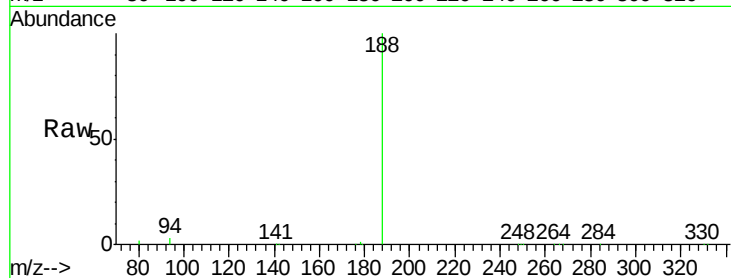
Tgt Ion:188 Resp: 146349

Ion Ratio Lower Upper

188 100

94 2.6 2.1 3.1

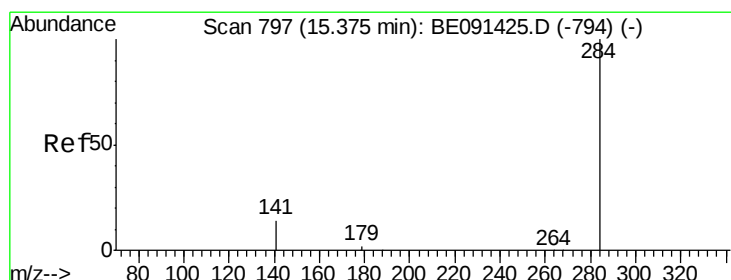
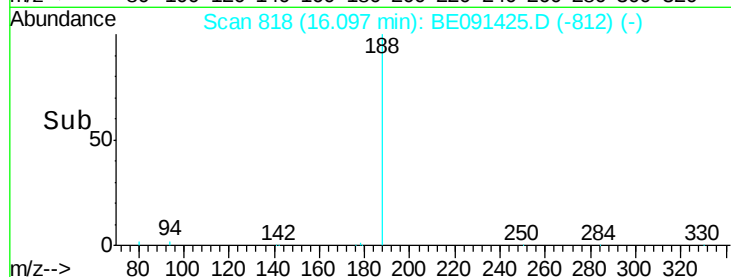
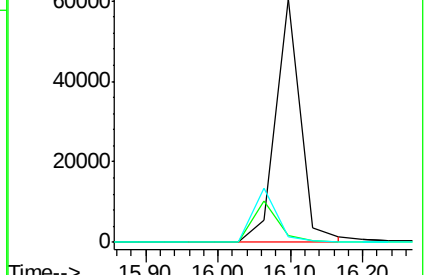
80 2.4 1.9 2.9



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: 0.47 ng

RT: 15.38 min Scan# 797

Delta R.T. 0.00 min

Lab File: BE091425.D

Acq: 3 Mar 2016 16:38

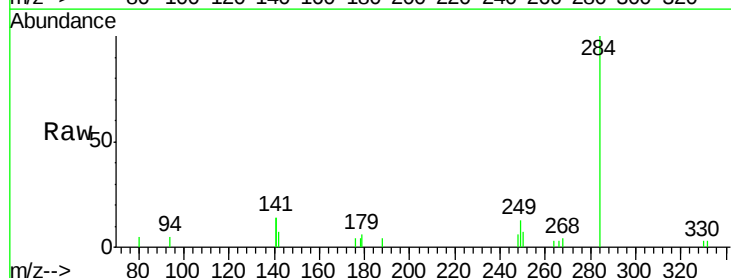
Tgt Ion:284 Resp: 3168

Ion Ratio Lower Upper

284 100

142 0.0 0.0 0.0

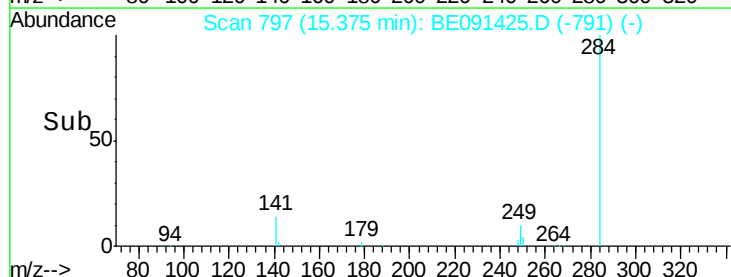
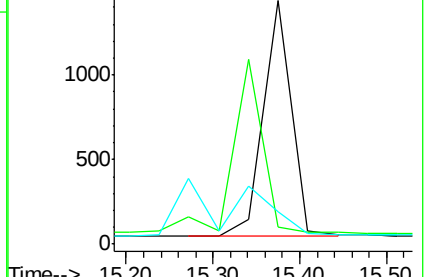
249 0.0 0.0 0.0

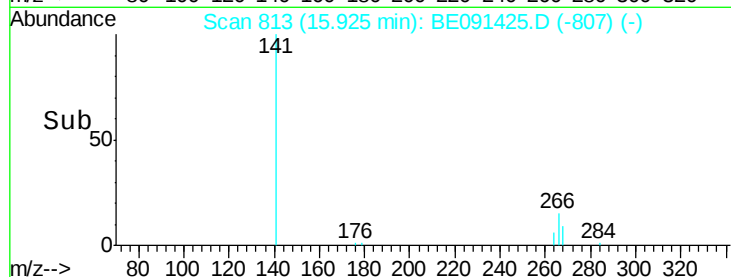
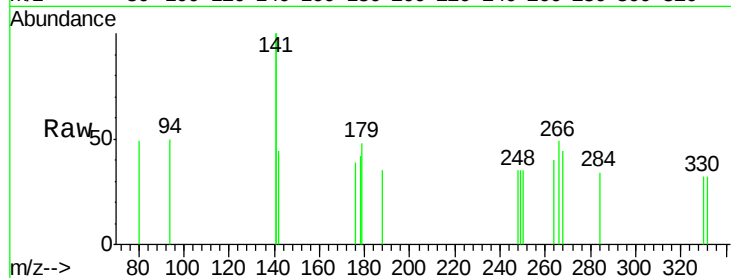
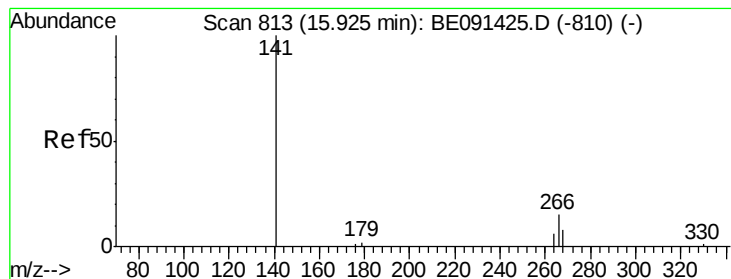


Abundance Ion 283.80 (283.50 to 284.50): E

Ion 142.00 (141.70 to 142.70): E

Ion 249.00 (248.70 to 249.70): E





#15

Pentachlorophenol

Concen: 0.21 ng

RT: 15.93 min Scan# 813

Delta R.T. 0.00 min

Lab File: BE091425.D

Acq: 3 Mar 2016 16:38

Instrument :

BNA_E

ClientSampleId :

SSTDICCC0.4

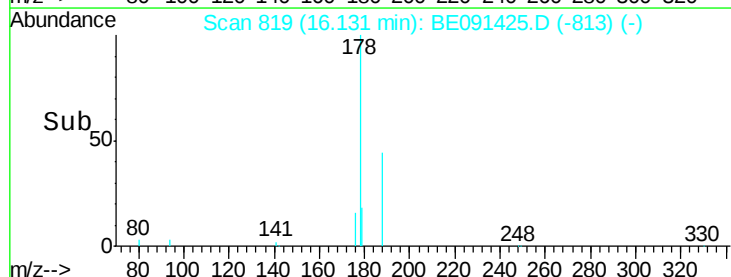
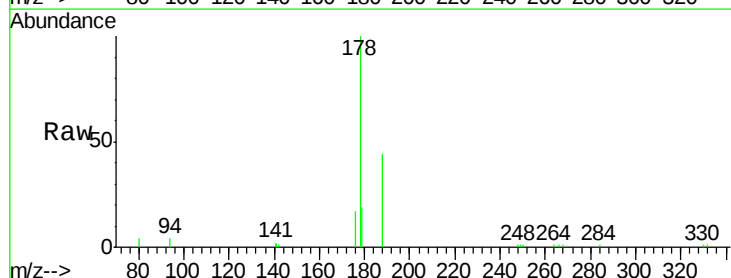
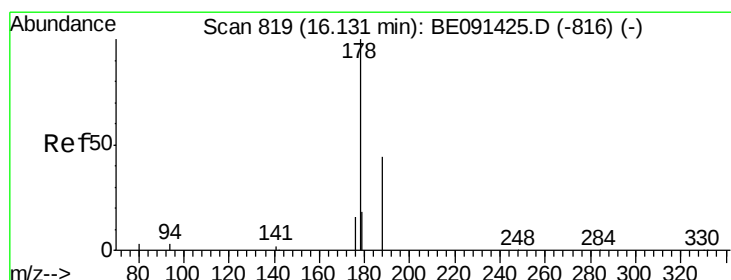
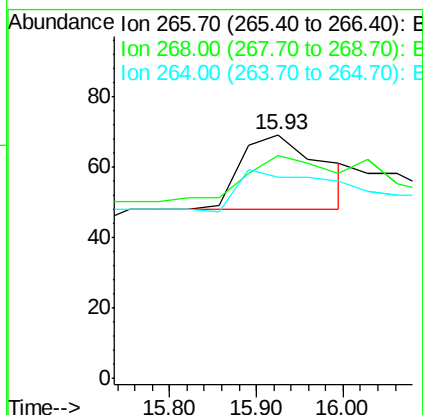
Tgt Ion:266 Resp: 138

Ion Ratio Lower Upper

266 100

268 91.3 73.0 109.6

264 82.6 66.1 99.1



#16

Phenanthrene

Concen: 0.53 ng

RT: 16.13 min Scan# 819

Delta R.T. 0.00 min

Lab File: BE091425.D

Acq: 3 Mar 2016 16:38

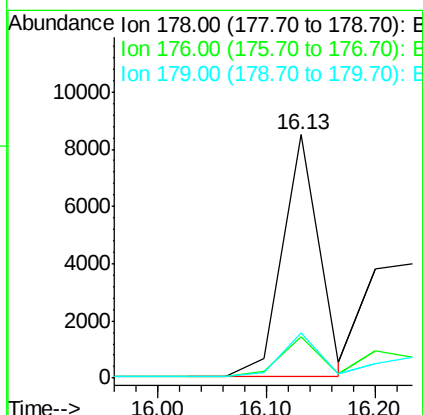
Tgt Ion:178 Resp: 19749

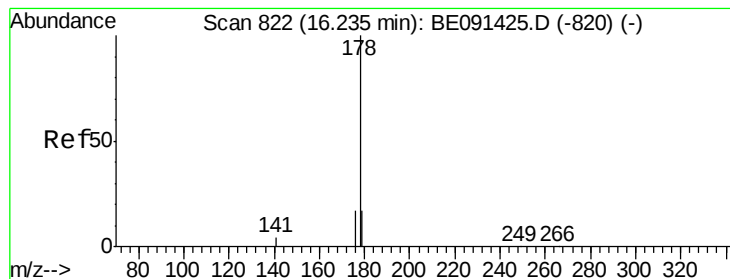
Ion Ratio Lower Upper

178 100

176 17.3 13.8 20.8

179 17.8 14.2 21.4





#17

Anthracene

Concen: 0.96 ng

RT: 16.13 min Scan# 819

Delta R.T. -0.10 min

Lab File: BE091425.D

Acq: 3 Mar 2016 16:38

Instrument :

BNA_E

ClientSampleId :

SSTDICCC0.4

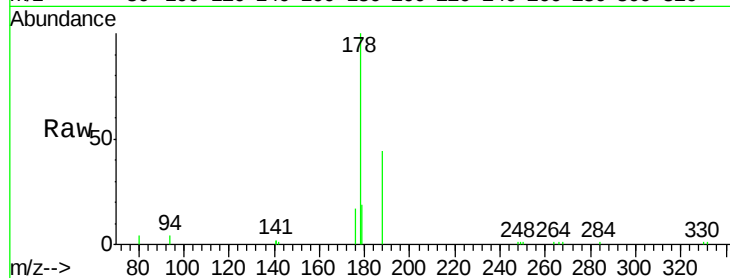
Tgt Ion:178 Resp: 32305

Ion Ratio Lower Upper

178 100

176 18.0 23.5 35.3#

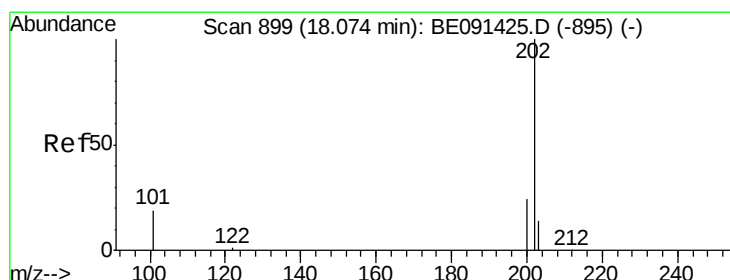
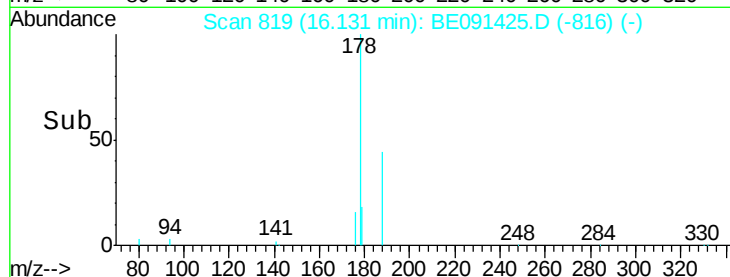
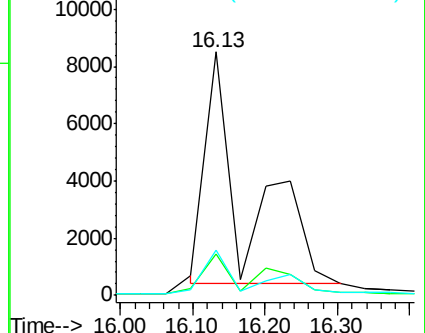
179 11.0 14.3 21.5#



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: 0.63 ng

RT: 18.07 min Scan# 899

Delta R.T. 0.00 min

Lab File: BE091425.D

Acq: 3 Mar 2016 16:38

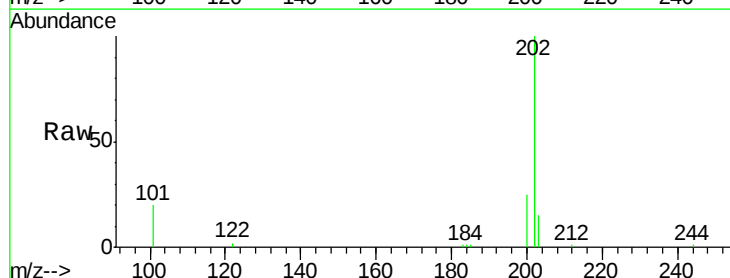
Tgt Ion:202 Resp: 23260

Ion Ratio Lower Upper

202 100

101 13.8 11.0 16.4

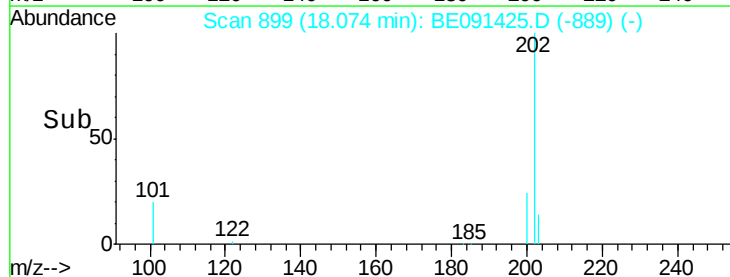
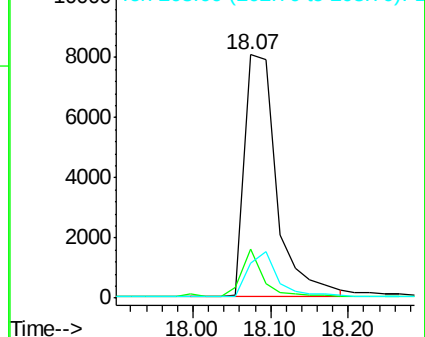
203 17.1 13.7 20.5

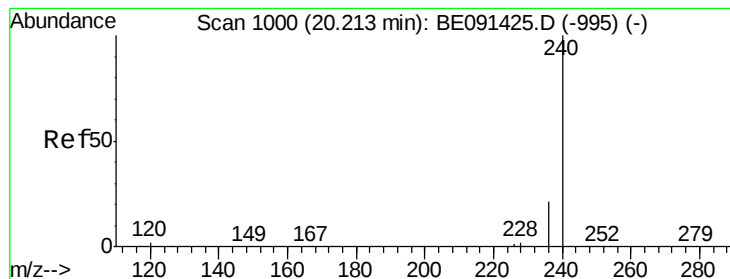


Abundance Ion 202.00 (201.70 to 202.70): E

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: BE091425.D

Acq: 3 Mar 2016 16:38

Instrument :

BNA_E

ClientSampleId :

SSTDICCC0.4

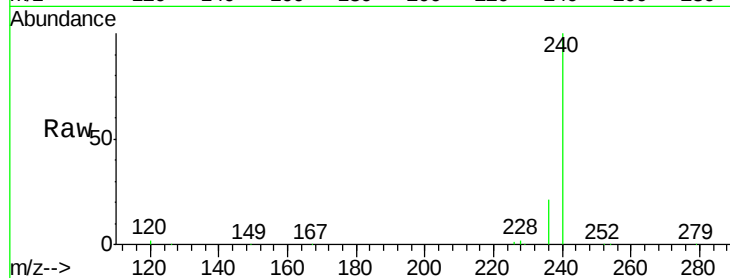
Tgt Ion:240 Resp: 226579

Ion Ratio Lower Upper

240 100

120 1.7 1.4 2.0

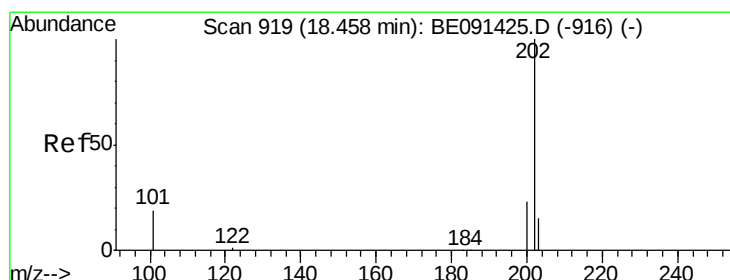
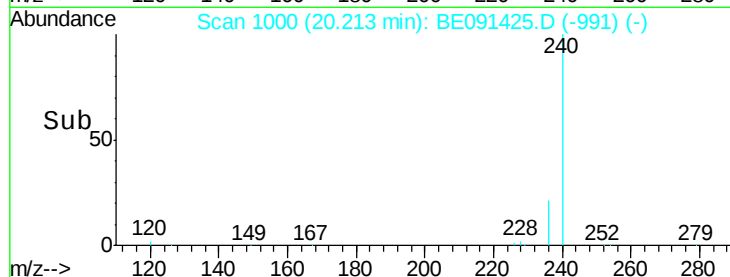
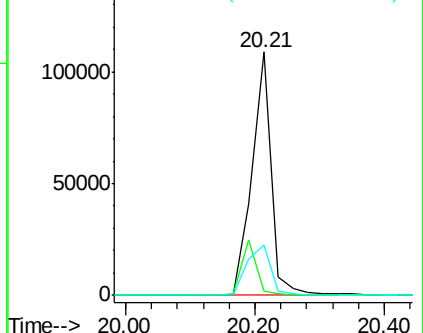
236 20.9 16.7 25.1



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: 0.49 ng

RT: 18.46 min Scan# 919

Delta R.T. 0.00 min

Lab File: BE091425.D

Acq: 3 Mar 2016 16:38

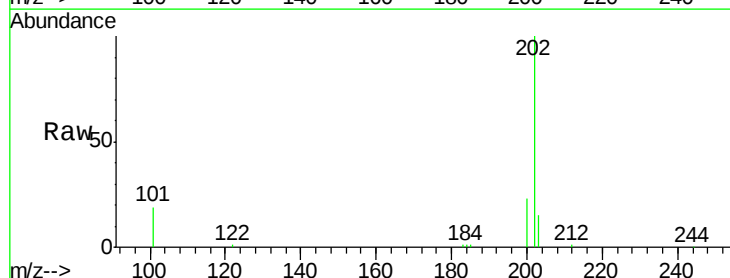
Tgt Ion:202 Resp: 25304

Ion Ratio Lower Upper

202 100

200 20.6 16.5 24.7

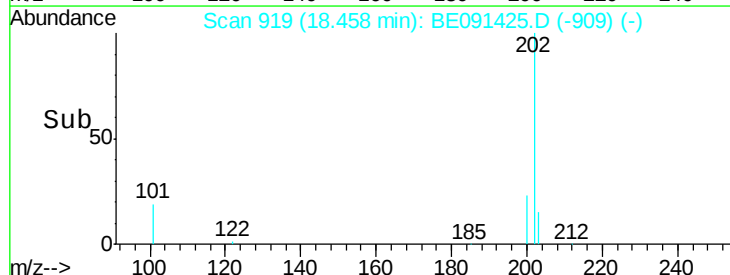
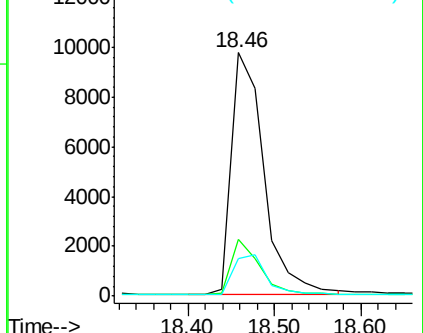
203 17.2 13.8 20.6

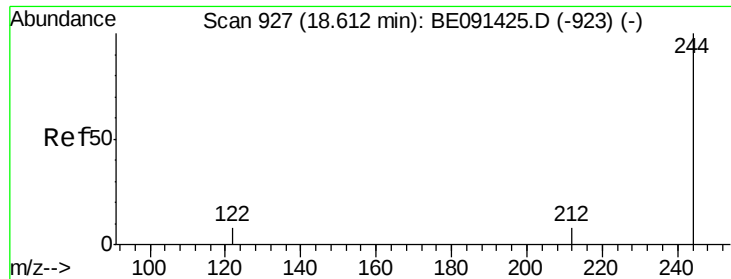


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E

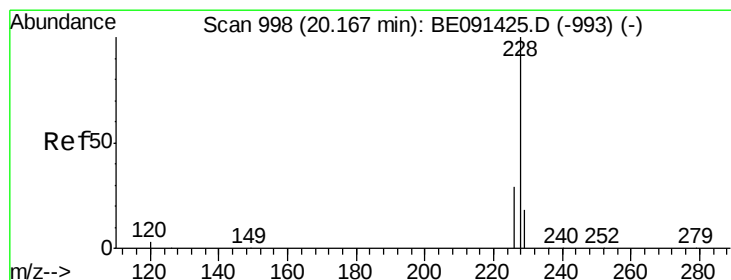
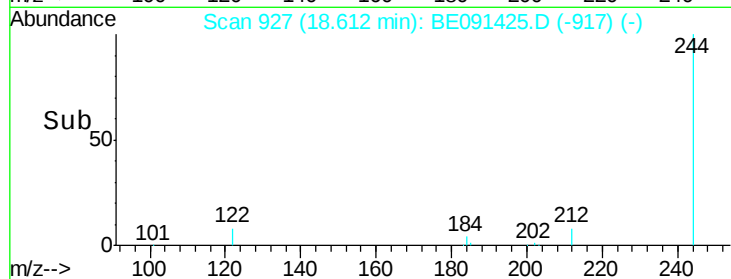
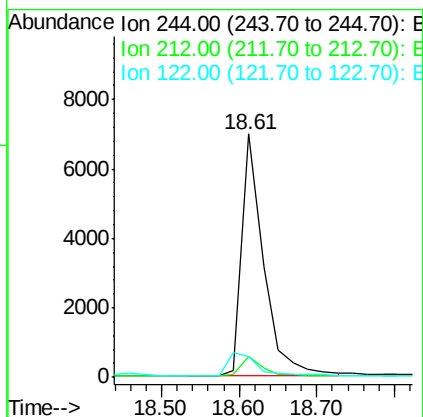
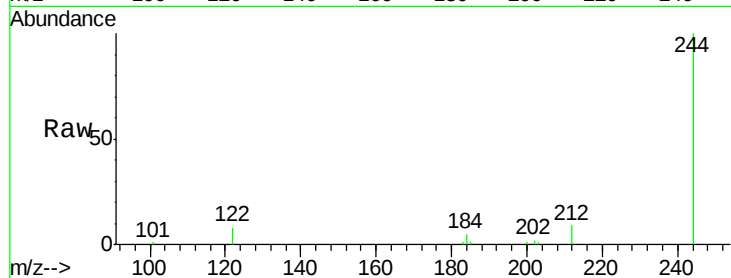




#21
 Terphenyl-d14
 Concen: 0.40 ng
 RT: 18.61 min Scan# 927
 Delta R.T. 0.00 min
 Lab File: BE091425.D
 Acq: 3 Mar 2016 16:38

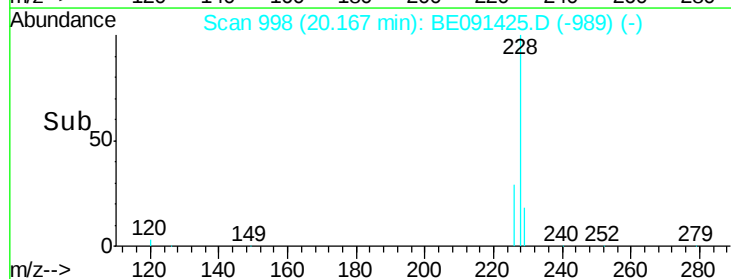
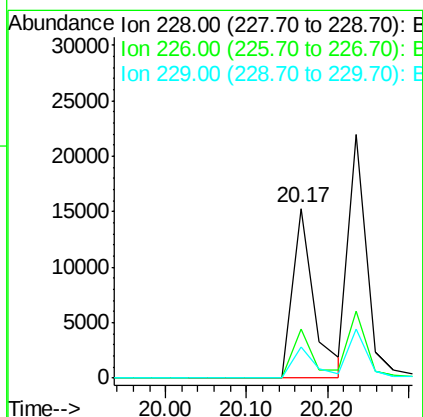
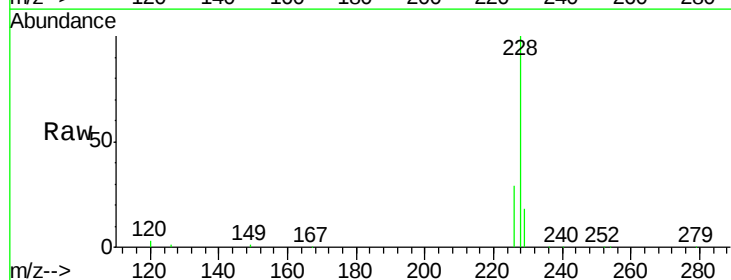
Instrument :
 BNA_E
 ClientSampleId :
 SSTDICC0.4

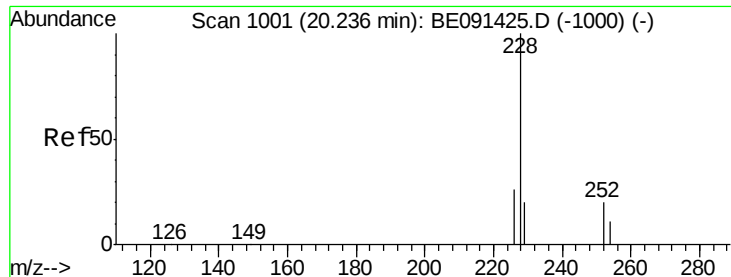
Tgt Ion:244 Resp: 13560
 Ion Ratio Lower Upper
 244 100
 212 8.8 7.0 10.6
 122 8.5 6.8 10.2



#22
 Benzo(a)anthracene
 Concen: 0.60 ng
 RT: 20.17 min Scan# 998
 Delta R.T. 0.00 min
 Lab File: BE091425.D
 Acq: 3 Mar 2016 16:38

Tgt Ion:228 Resp: 28255
 Ion Ratio Lower Upper
 228 100
 226 28.9 23.1 34.7
 229 18.1 14.5 21.7

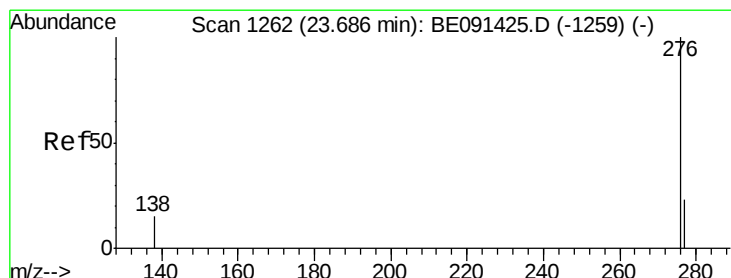
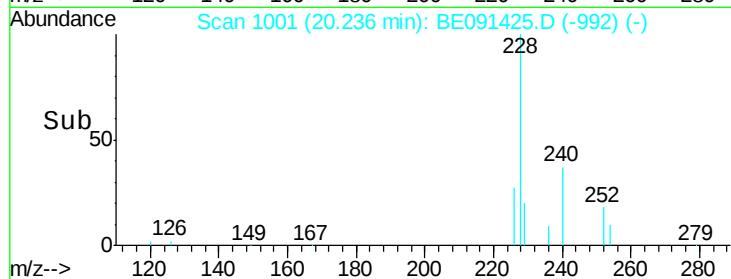
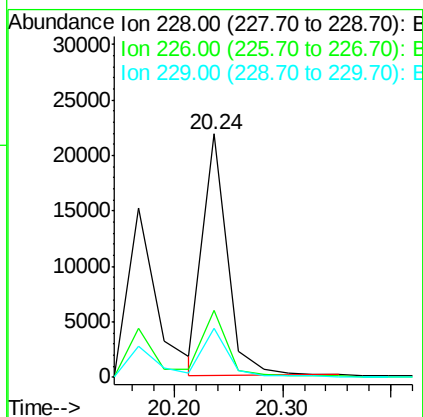
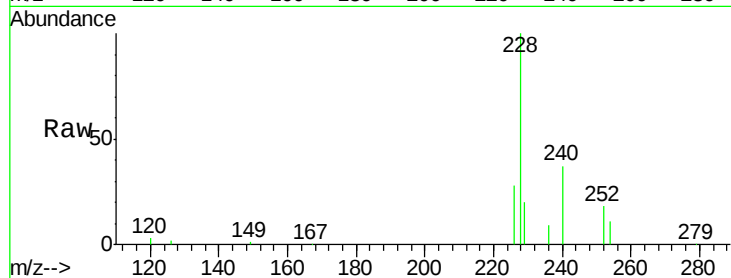




#23
Chrysene
Concen: 0.54 ng
RT: 20.24 min Scan# 1001
Delta R.T. 0.00 min
Lab File: BE091425.D
Acq: 3 Mar 2016 16:38

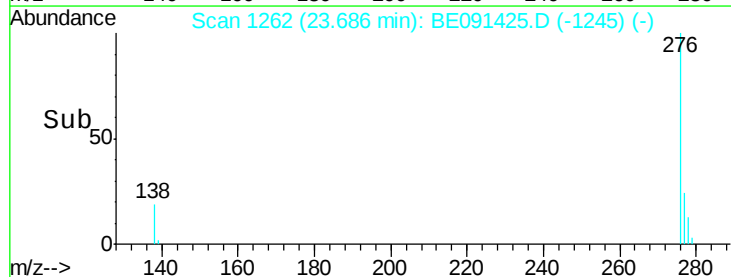
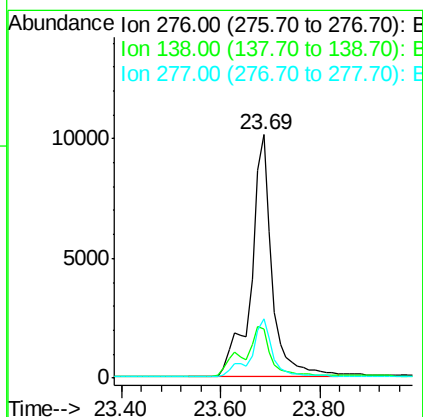
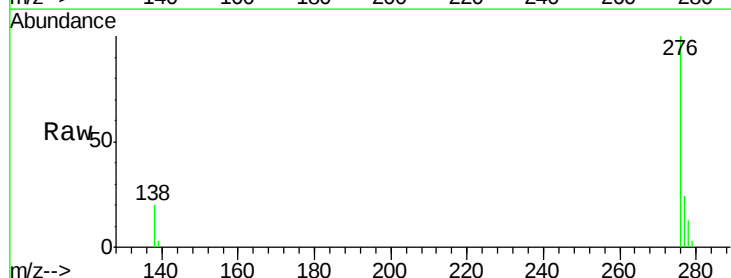
Instrument :
BNA_E
ClientSampleId :
SSTDICCC0.4

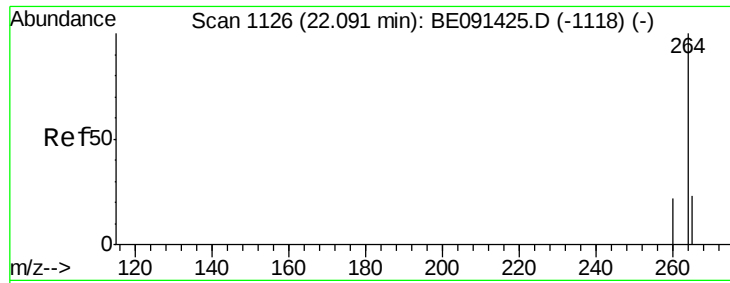
Tgt Ion: 228 Resp: 34457
Ion Ratio Lower Upper
228 100
226 27.5 22.0 33.0
229 20.2 16.2 24.2



#24
Indeno(1,2,3-cd)pyrene
Concen: 0.67 ng
RT: 23.69 min Scan# 1262
Delta R.T. 0.00 min
Lab File: BE091425.D
Acq: 3 Mar 2016 16:38

Tgt Ion: 276 Resp: 30089
Ion Ratio Lower Upper
276 100
138 17.4 15.9 23.9
277 24.8 22.4 33.6

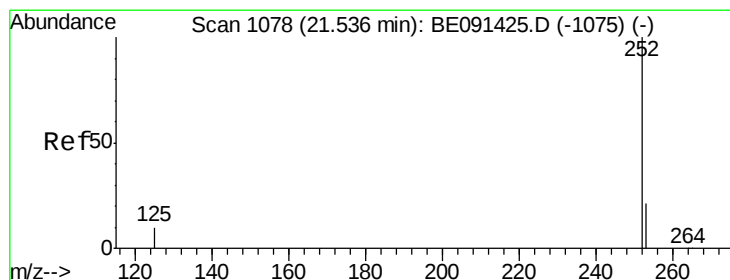
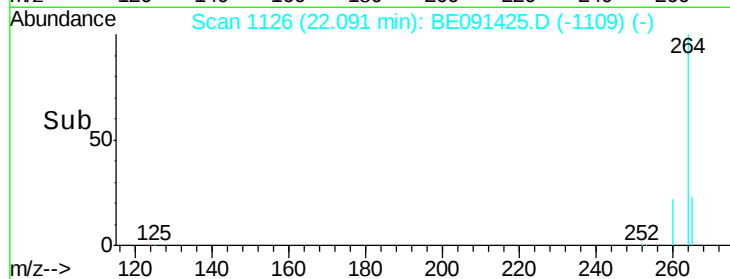
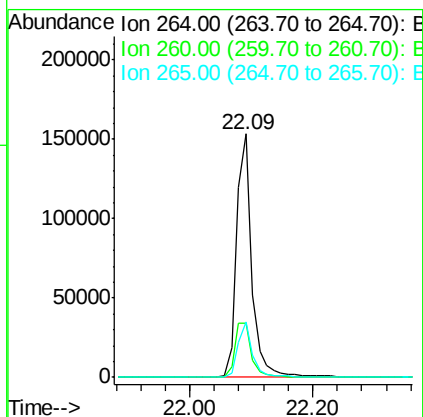
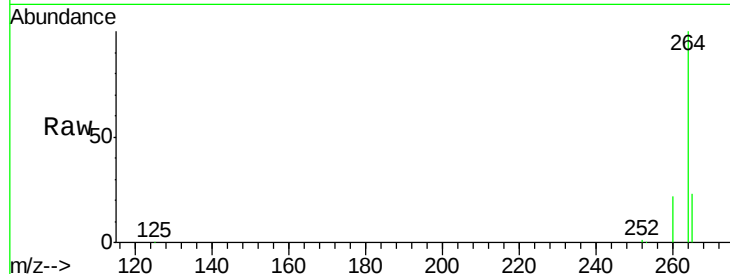




#25
Perylene-d12
Concen: 5.00 ng
RT: 22.09 min Scan# 1126
Delta R.T. 0.00 min
Lab File: BE091425.D
Acq: 3 Mar 2016 16:38

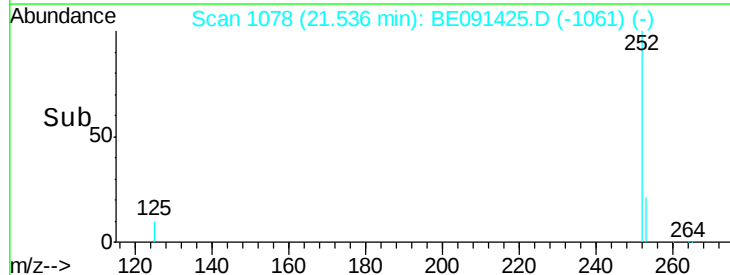
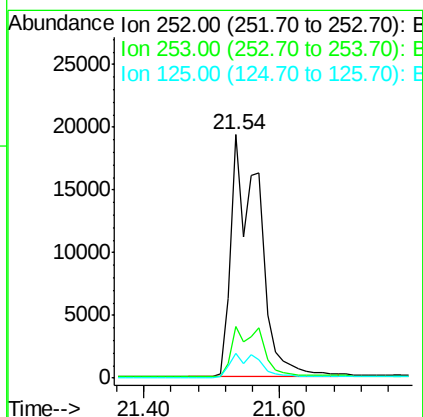
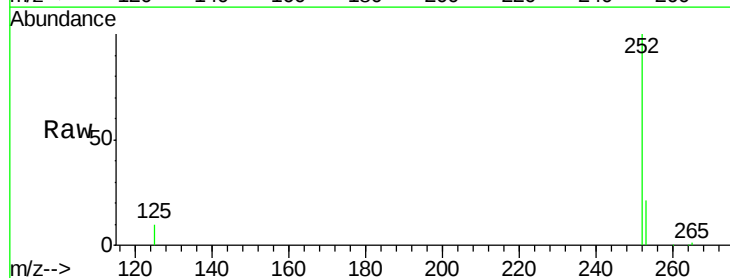
Instrument :
BNA_E
ClientSampleId :
SSTDICCC0.4

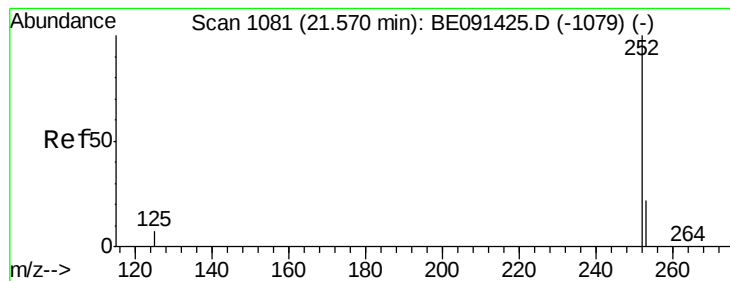
Tgt Ion: 264 Resp: 267165
Ion Ratio Lower Upper
264 100
260 22.5 18.0 27.0
265 22.8 18.2 27.4



#26
Benzo(b)fluoranthene
Concen: 1.02 ng
RT: 21.54 min Scan# 1078
Delta R.T. 0.00 min
Lab File: BE091425.D
Acq: 3 Mar 2016 16:38

Tgt Ion: 252 Resp: 56272
Ion Ratio Lower Upper
252 100
253 21.2 17.0 25.4
125 10.4 8.3 12.5





#27

Benzo(k)fluoranthene

Concen: 0.87 ng

RT: 21.54 min Scan# 1078

Delta R.T. -0.03 min

Lab File: BE091425.D

Acq: 3 Mar 2016 16:38

Instrument :

BNA_E

ClientSampleId :

SSTDICCC0.4

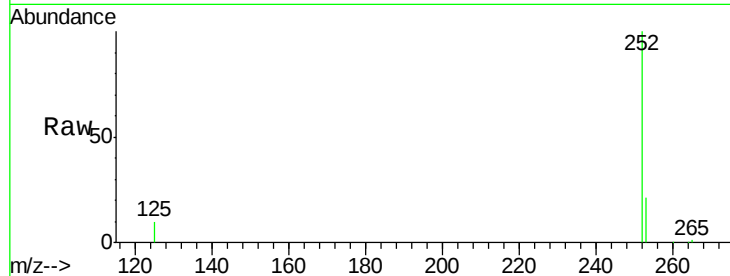
Tgt Ion: 252 Resp: 56655

Ion Ratio Lower Upper

252 100

253 21.2 19.5 29.3

125 10.4 7.3 10.9

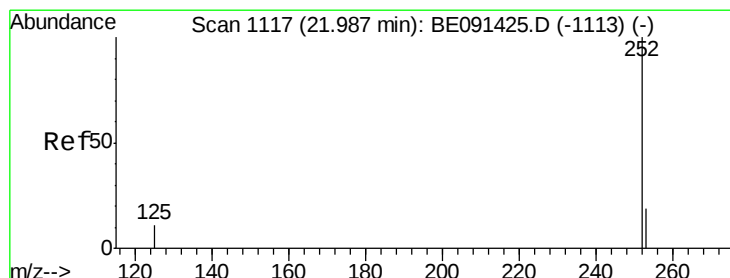
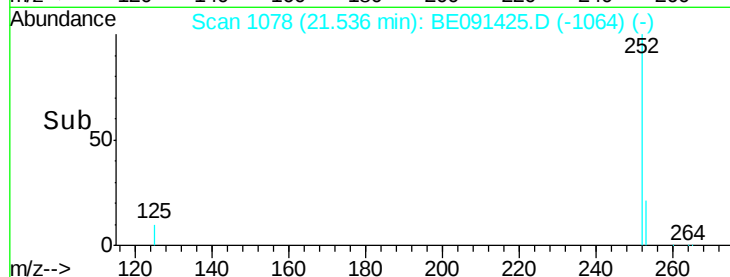
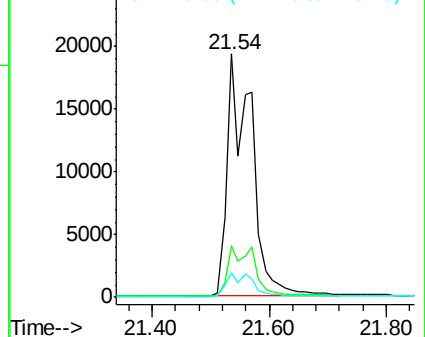


Abundance

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: 0.48 ng

RT: 21.99 min Scan# 1117

Delta R.T. 0.00 min

Lab File: BE091425.D

Acq: 3 Mar 2016 16:38

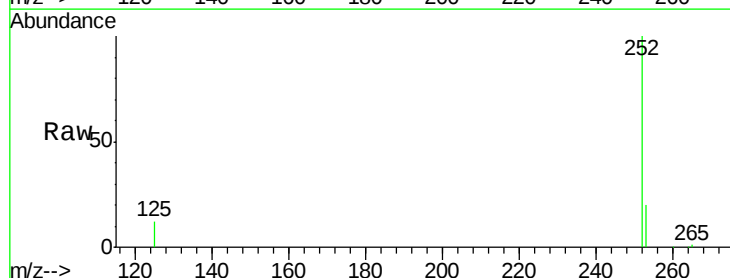
Tgt Ion: 252 Resp: 24157

Ion Ratio Lower Upper

252 100

253 20.3 16.2 24.4

125 12.0 9.6 14.4

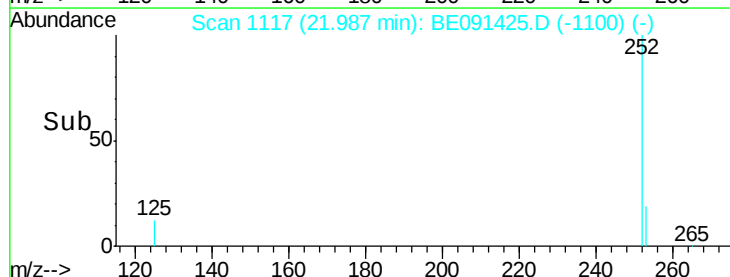
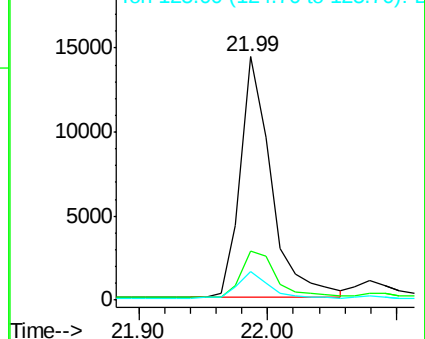


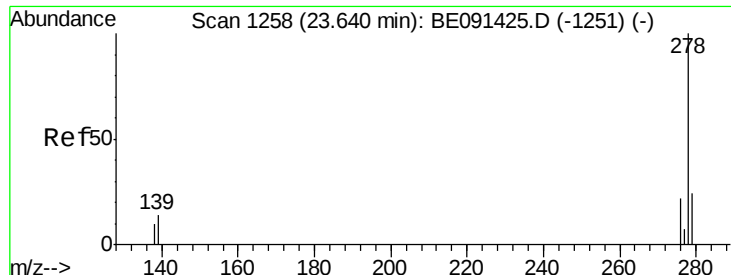
Abundance

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: 0.55 ng

RT: 23.64 min Scan# 1258

Delta R.T. 0.00 min

Lab File: BE091425.D

Acq: 3 Mar 2016 16:38

Instrument :

BNA_E

ClientSampleId :

SSTDICCC0.4

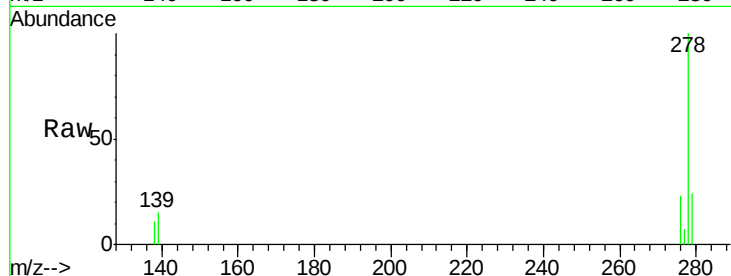
Tgt Ion: 278 Resp: 23375

Ion Ratio Lower Upper

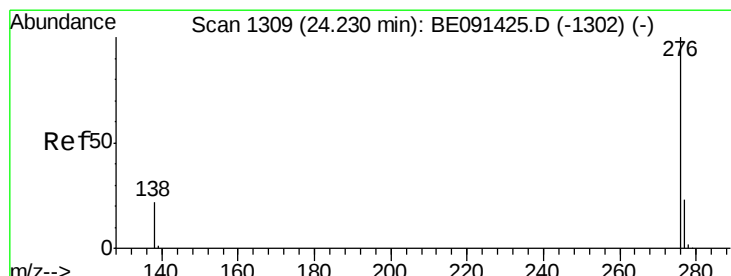
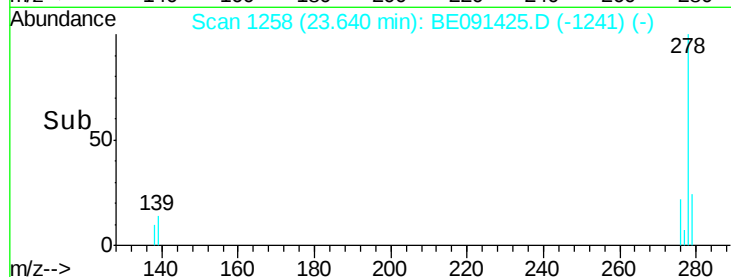
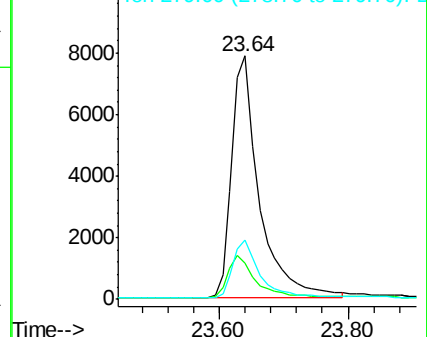
278 100

139 15.1 12.1 18.1

279 24.2 19.4 29.0



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



#30

Benzo(g,h,i)perylene

Concen: 0.47 ng

RT: 24.23 min Scan# 1309

Delta R.T. 0.00 min

Lab File: BE091425.D

Acq: 3 Mar 2016 16:38

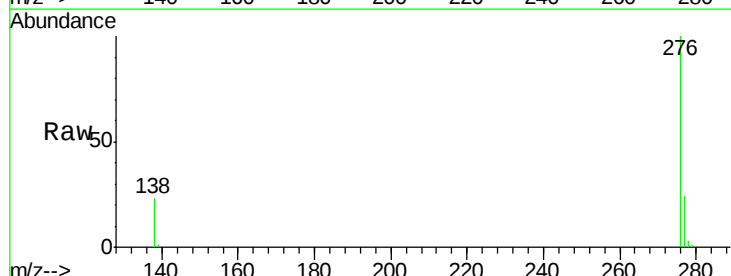
Tgt Ion: 276 Resp: 25791

Ion Ratio Lower Upper

276 100

277 23.8 19.0 28.6

138 22.8 18.2 27.4



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

