

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE030316\
 Data File : BE091444.D
 Acq On : 4 Mar 2016 4:20
 Operator : UM/IZ
 Sample : MDL-02-S
 Misc : 0.16PPM
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :

Quant Time: Mar 04 07:53:41 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

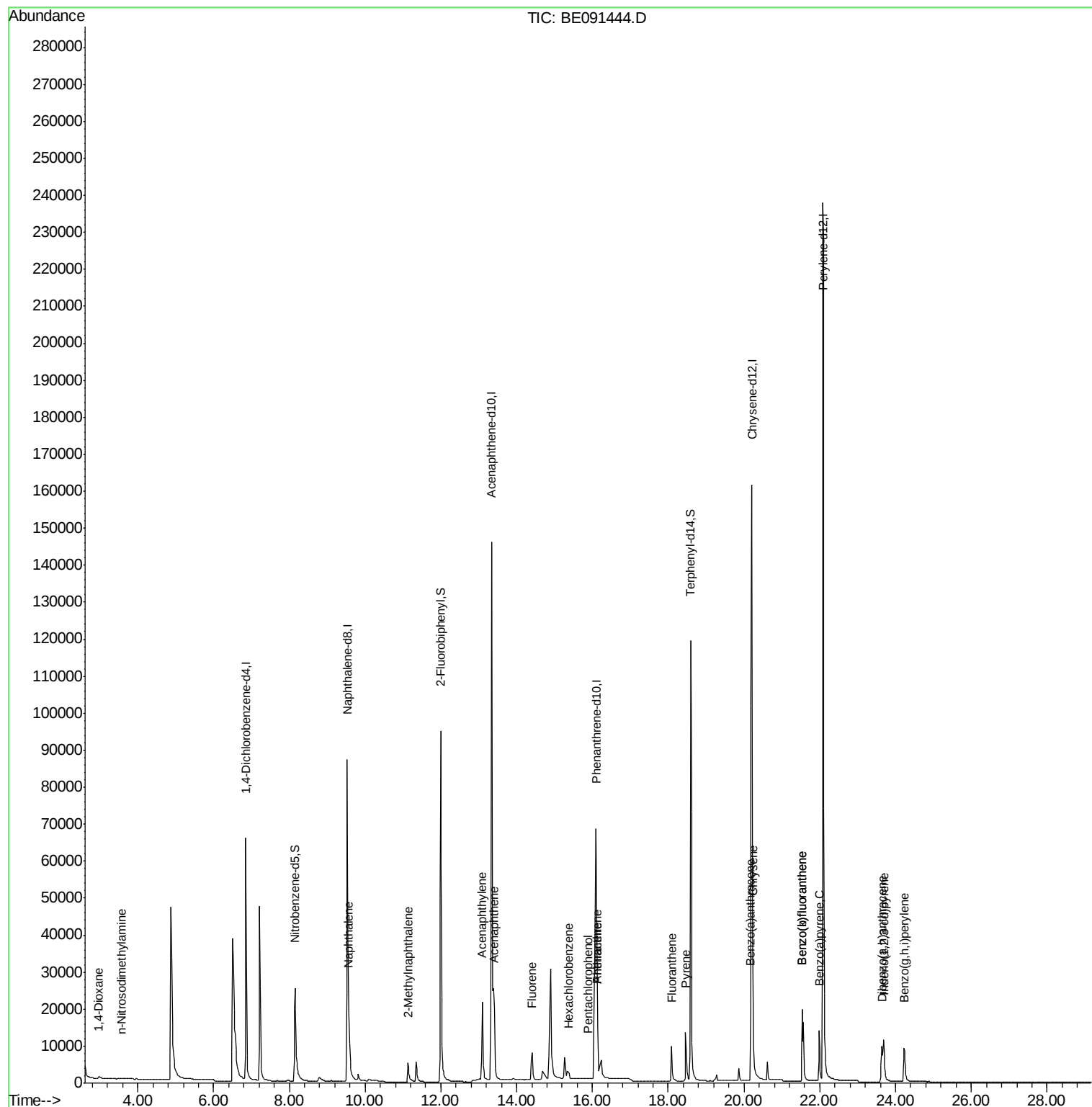
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.85	152	37581	5.00	ng	-0.02
4) Naphthalene-d8	9.53	136	165549	5.00	ng	0.00
8) Acenaphthene-d10	13.34	164	101853	5.00	ng	0.00
13) Phenanthrene-d10	16.10	188	161028	5.00	ng	0.00
19) Chrysene-d12	20.21	240	272199	5.00	ng	0.00
25) Perylene-d12	22.08	264	309871	5.00	ng	-0.01
System Monitoring Compounds						
5) Nitrobenzene-d5	8.15	82	41991	4.10	ng	-0.03
9) 2-Fluorobiphenyl	11.99	172	117711	4.76	ng	-0.01
21) Terphenyl-d14	18.59	244	201975	4.88	ng	-0.02
Target Compounds						Qvalue
2) 1,4-Dioxane	2.97	88	908	0.27	ng	90
3) n-Nitrosodimethylamine	3.58	42	583	0.24	ng	# 1
6) Naphthalene	9.57	128	9873	0.26	ng	99
7) 2-Methylnaphthalene	11.14	142	7413	0.33	ng	97
10) Acenaphthylene	13.09	152	37568	0.22	ng	100
11) Acenaphthene	13.41	154	7365	0.24	ng	# 100
12) Fluorene	14.41	166	8995	0.23	ng	100
14) Hexachlorobenzene	15.38	284	2630	0.28	ng	# 100
15) Pentachlorophenol	15.89	266	340	0.58	ng	92
16) Phenanthrene	16.13	178	16023	0.28	ng	99
17) Anthracene	16.13	178	15825	0.31	ng	94
18) Fluoranthene	18.09	202	17735	0.28	ng	99
20) Pyrene	18.46	202	18912	0.24	ng	98
22) Benzo(a)anthracene	20.17	228	22650	0.24	ng	99
23) Chrysene	20.23	228	25571	0.25	ng	98
24) Indeno(1,2,3-cd)pyrene	23.69	276	21950	0.27	ng	# 90
26) Benzo(b)fluoranthene	21.54	252	41761	0.48	ng	99
27) Benzo(k)fluoranthene	21.54	252	42125	0.50	ng	96
28) Benzo(a)pyrene	21.99	252	17283	0.23	ng	97
29) Dibenzo(a,h)anthracene	23.64	278	16633	0.23	ng	98
30) Benzo(g,h,i)perylene	24.23	276	19215	0.25	ng	99

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

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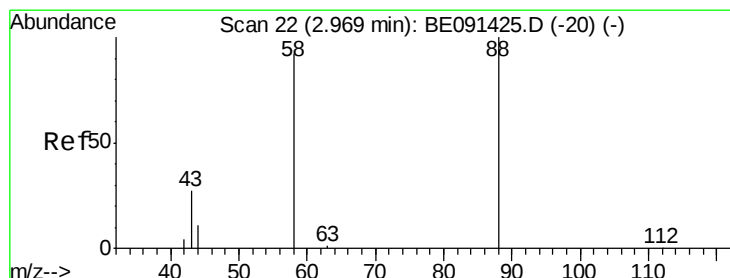
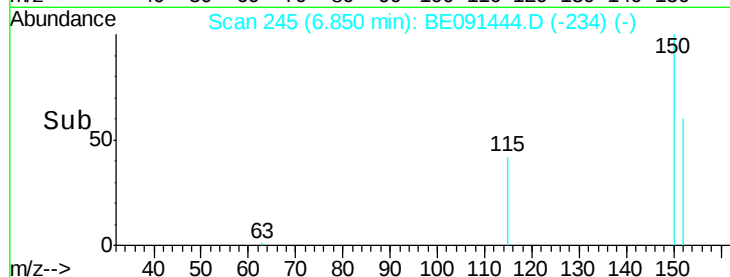
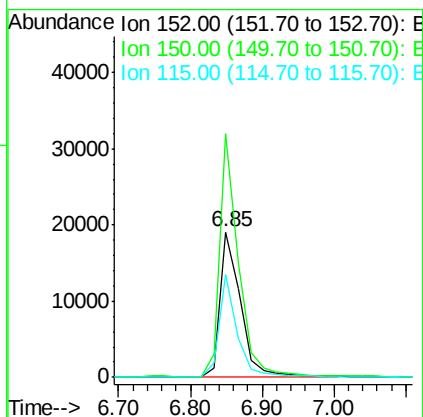
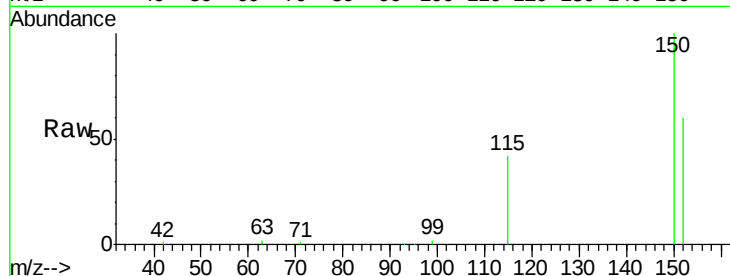




#1
 1,4-Dichlorobenzene-d4
 Concen: 5.00 ng
 RT: 6.85 min Scan# 245
 Delta R.T. -0.02 min
 Lab File: BE091444.D
 Acq: 4 Mar 2016 4:20

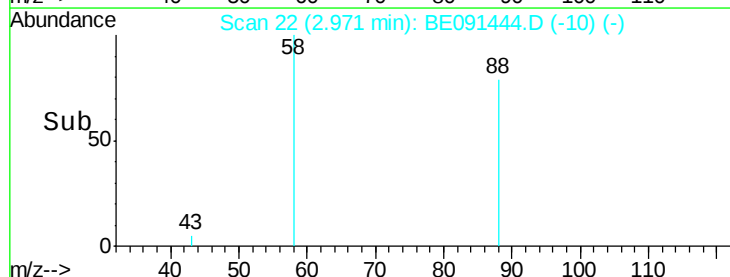
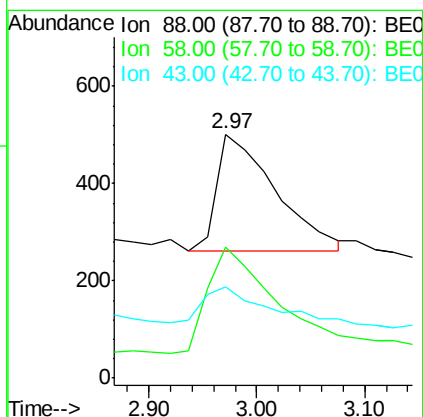
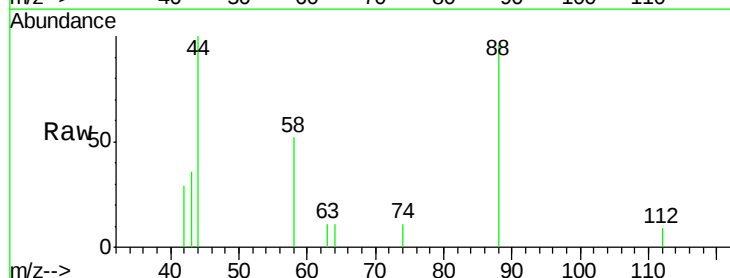
Instrument :
 BNA_E
 ClientSampleId :

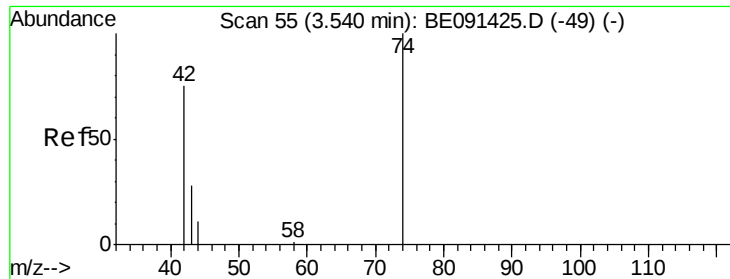
Tgt Ion: 152 Resp: 37581
 Ion Ratio Lower Upper
 152 100
 150 167.6 115.0 172.4
 115 70.5 42.2 63.4#



#2
 1,4-Dioxane
 Concen: 0.27 ng
 RT: 2.97 min Scan# 22
 Delta R.T. 0.00 min
 Lab File: BE091444.D
 Acq: 4 Mar 2016 4:20

Tgt Ion: 88 Resp: 908
 Ion Ratio Lower Upper
 88 100
 58 108.6 97.9 146.9
 43 34.7 29.0 43.4





#3

n-Nitrosodimethylamine

Concen: 0.24 ng

RT: 3.58 min Scan# 57

Delta R.T. 0.04 min

Lab File: BE091444.D

Acq: 4 Mar 2016 4:20

Instrument :

BNA_E

ClientSampleId :

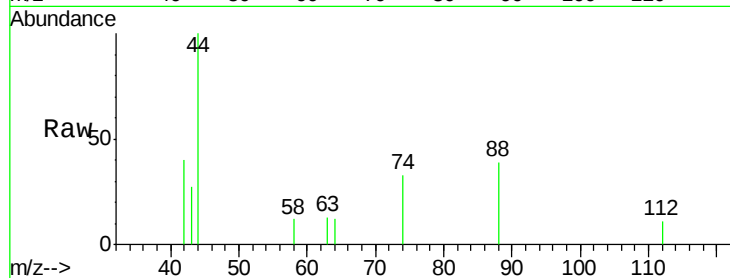
Tgt Ion: 42 Resp: 583

Ion Ratio Lower Upper

42 100

74 0.0 93.8 140.6#

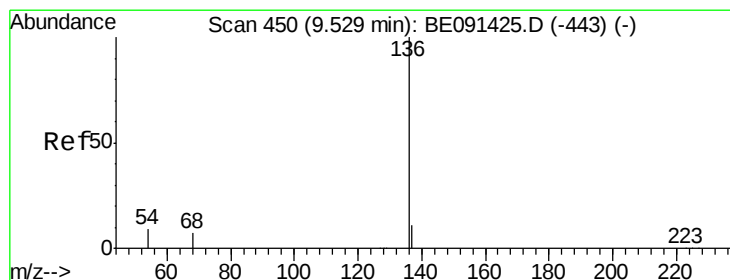
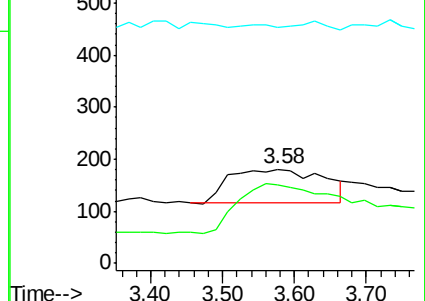
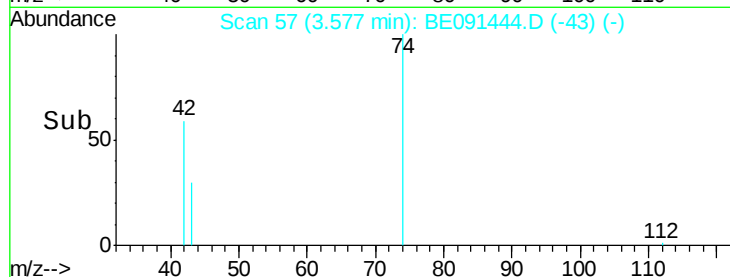
44 0.0 0.0 0.0



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: BE091444.D

Acq: 4 Mar 2016 4:20

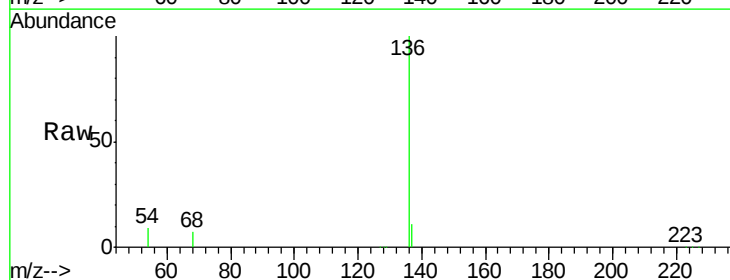
Tgt Ion: 136 Resp: 165549

Ion Ratio Lower Upper

136 100

137 11.0 8.7 13.1

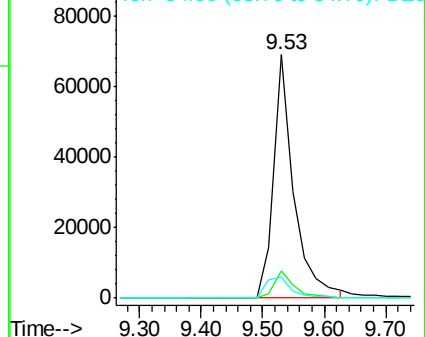
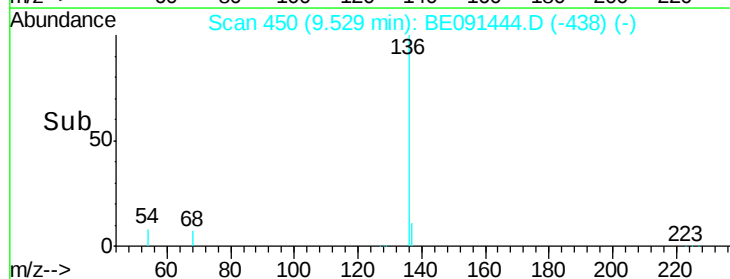
54 8.5 6.9 10.3

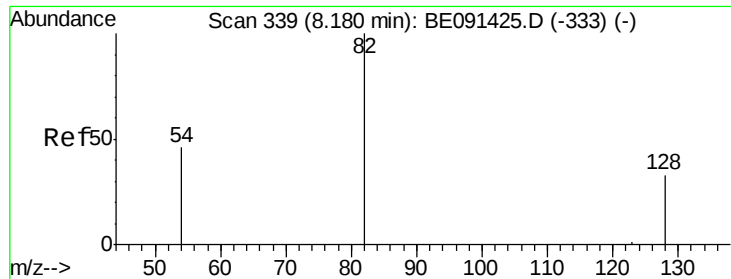


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BE0





#5

Nitrobenzene-d5

Concen: 4.10 ng

RT: 8.15 min Scan# 336

Delta R.T. -0.03 min

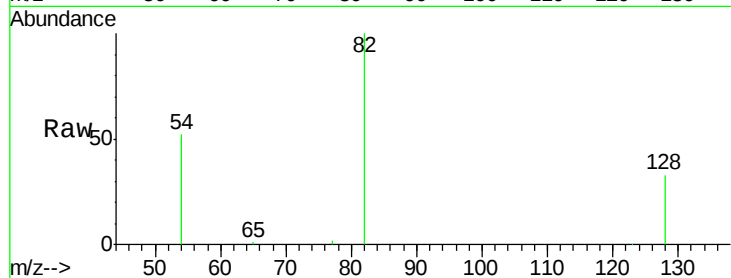
Lab File: BE091444.D

Acq: 4 Mar 2016 4:20

Instrument :

BNA_E

ClientSampled :



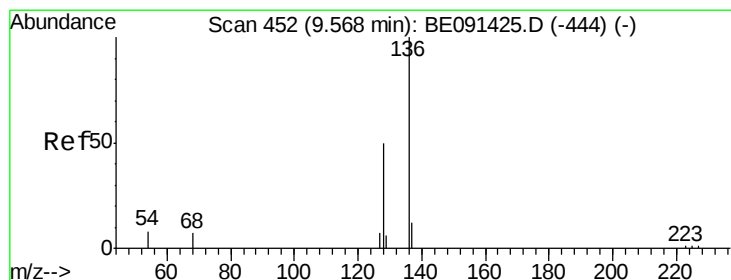
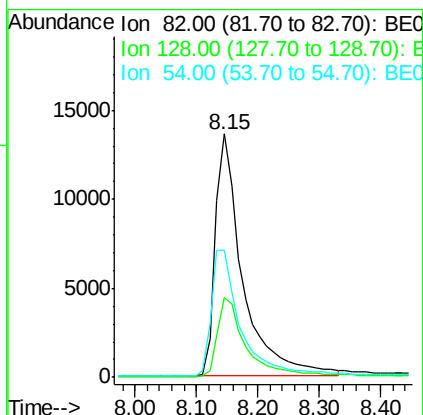
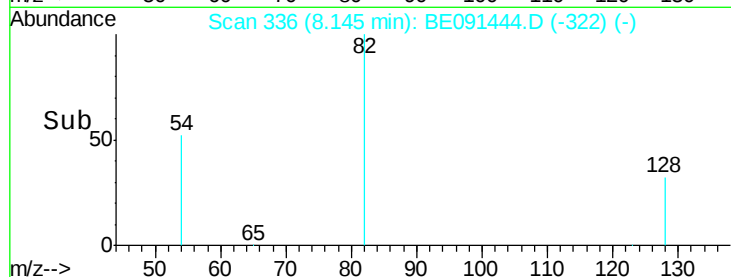
Tgt Ion: 82 Resp: 41991

Ion Ratio Lower Upper

82 100

128 32.7 30.0 45.0

54 52.5 41.5 62.3



#6

Naphthalene

Concen: 0.26 ng

RT: 9.57 min Scan# 452

Delta R.T. 0.00 min

Lab File: BE091444.D

Acq: 4 Mar 2016 4:20

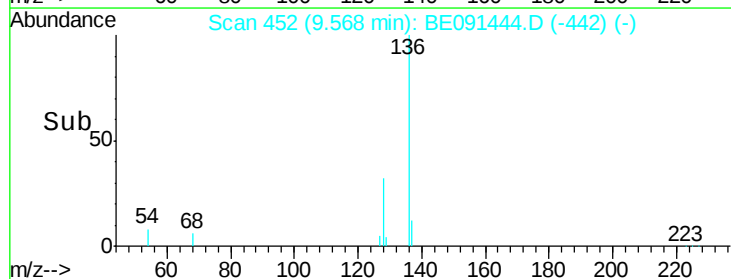
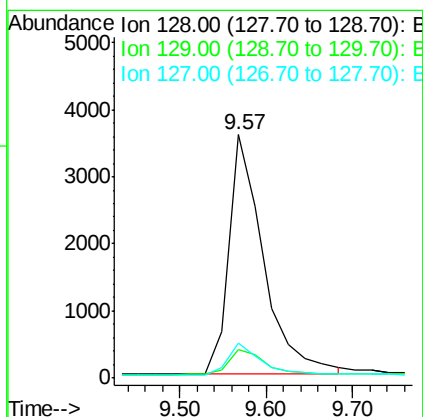
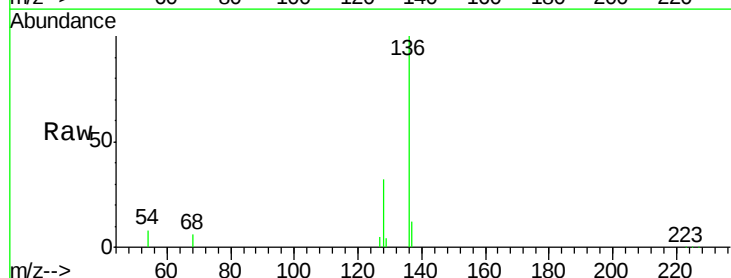
Tgt Ion: 128 Resp: 9873

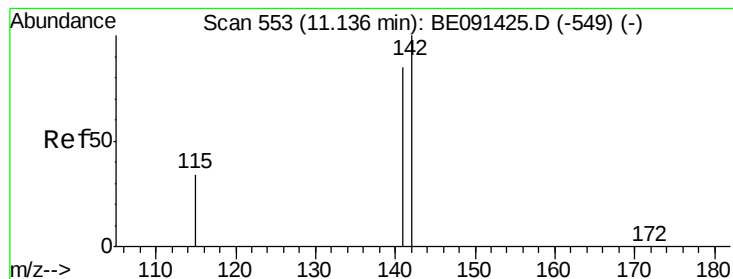
Ion Ratio Lower Upper

128 100

129 11.6 9.5 14.3

127 14.4 11.4 17.0





#7

2-Methylnaphthalene

Concen: 0.33 ng

RT: 11.14 min Scan# 553

Delta R.T. 0.00 min

Lab File: BE091444.D

Acq: 4 Mar 2016 4:20

Instrument :

BNA_E

ClientSampleId :

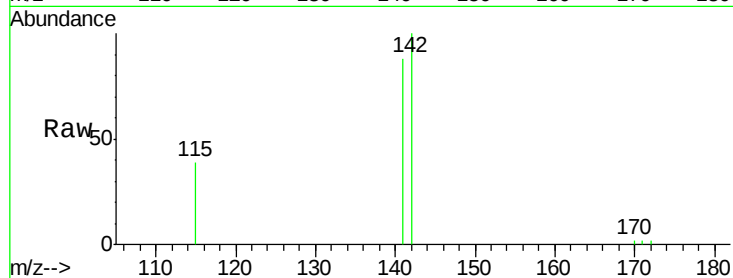
Tgt Ion:142 Resp: 7413

Ion Ratio Lower Upper

142 100

141 87.8 68.3 102.5

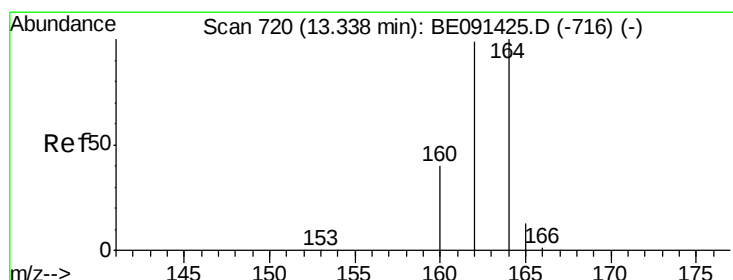
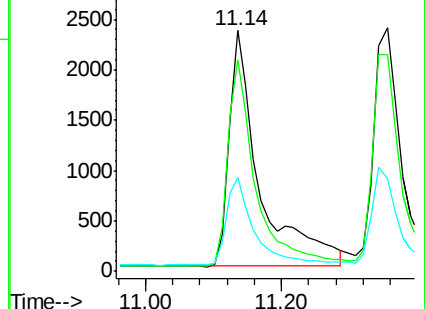
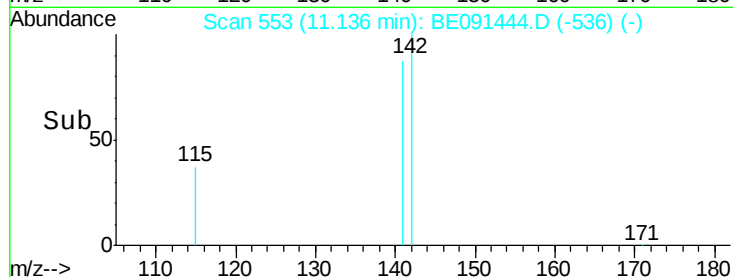
115 38.8 28.9 43.3



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: BE091444.D

Acq: 4 Mar 2016 4:20

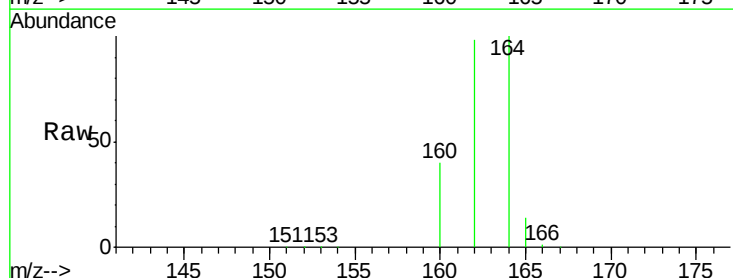
Tgt Ion:164 Resp: 101853

Ion Ratio Lower Upper

164 100

162 97.8 79.1 118.7

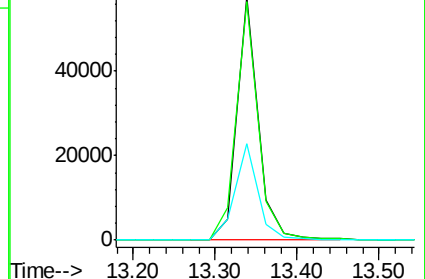
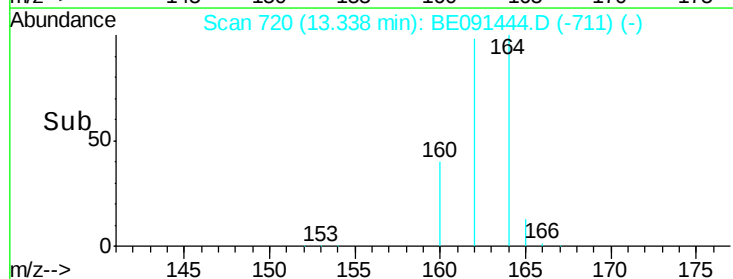
160 39.6 32.4 48.6

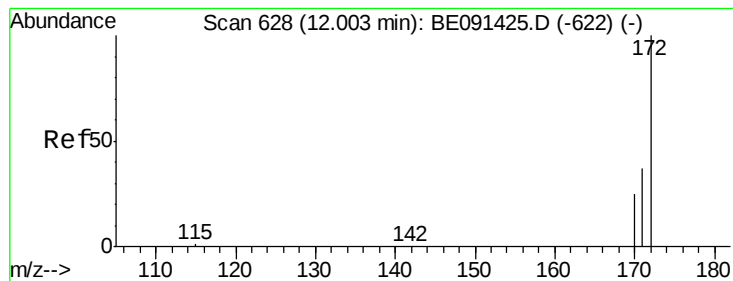


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E





#9

2-Fluorobiphenyl

Concen: 4.76 ng

RT: 11.99 min Scan# 627

Delta R.T. -0.01 min

Lab File: BE091444.D

Acq: 4 Mar 2016 4:20

Instrument :

BNA_E

ClientSampleId :

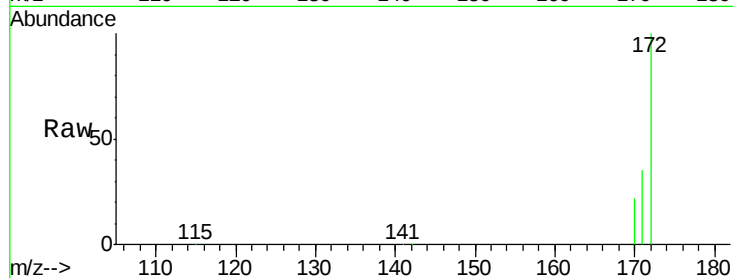
Tgt Ion:172 Resp: 117711

Ion Ratio Lower Upper

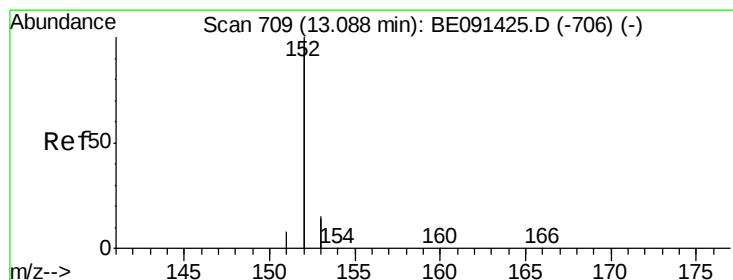
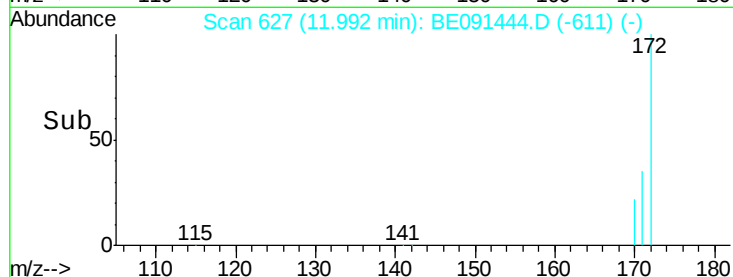
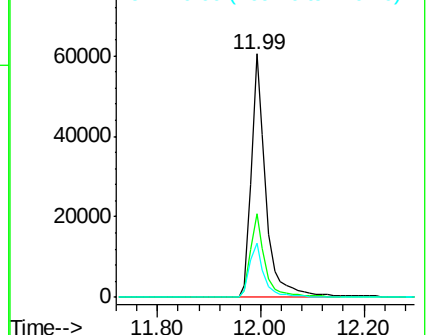
172 100

171 34.6 30.2 45.4

170 22.1 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: 0.22 ng

RT: 13.09 min Scan# 709

Delta R.T. 0.00 min

Lab File: BE091444.D

Acq: 4 Mar 2016 4:20

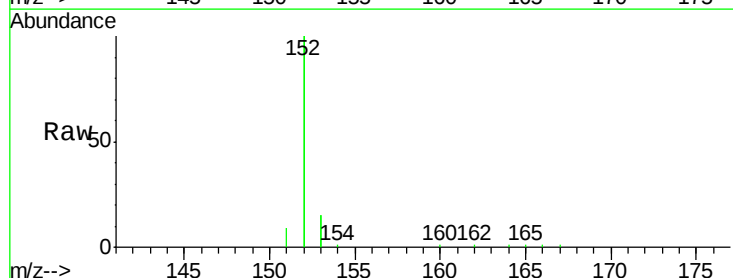
Tgt Ion:152 Resp: 37568

Ion Ratio Lower Upper

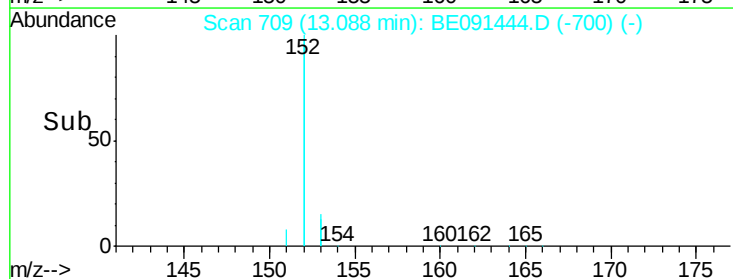
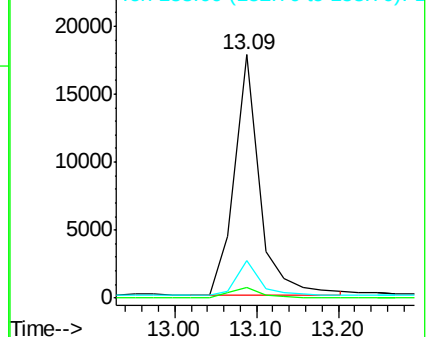
152 100

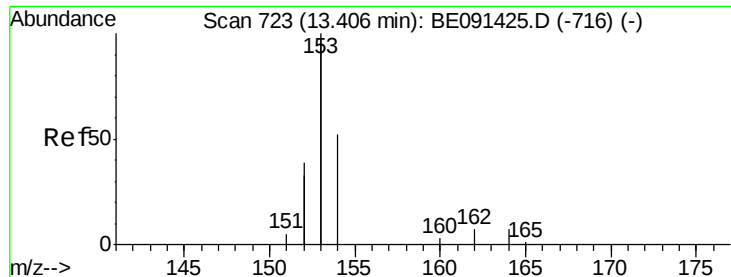
151 4.7 3.9 5.9

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: 0.24 ng

RT: 13.41 min Scan# 723

Delta R.T. 0.00 min

Lab File: BE091444.D

Acq: 4 Mar 2016 4:20

Instrument :

BNA_E

ClientSampleId :

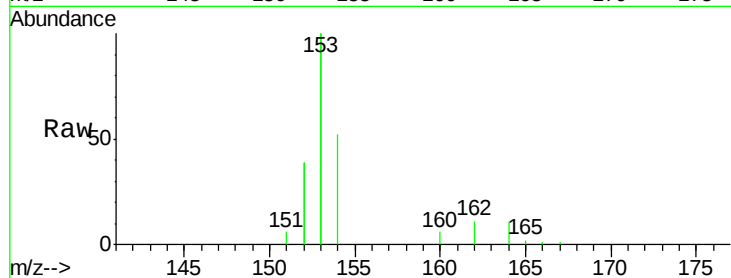
Tgt Ion:154 Resp: 7365

Ion Ratio Lower Upper

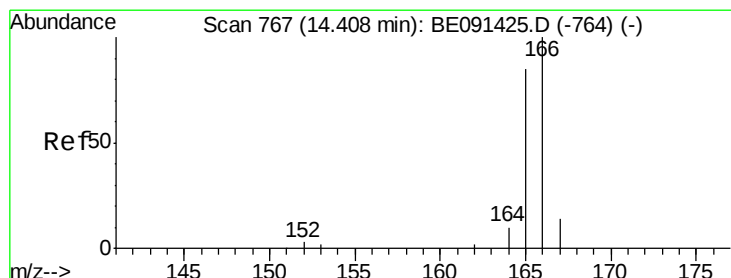
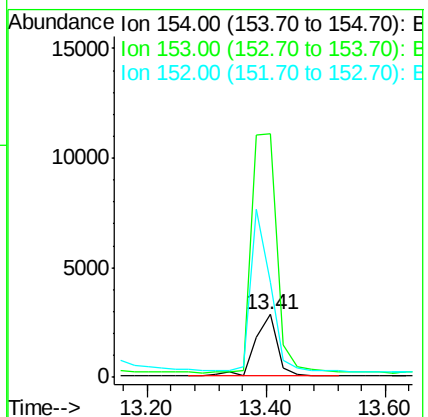
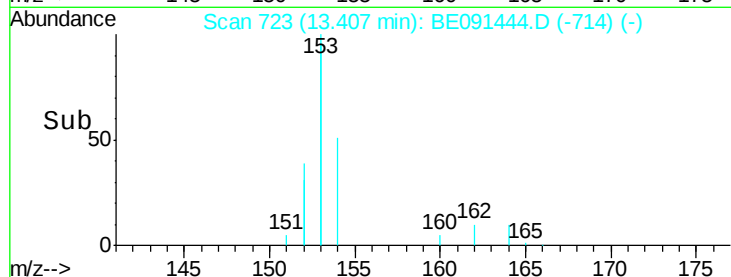
154 100

153 439.2 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: 0.23 ng

RT: 14.41 min Scan# 767

Delta R.T. 0.00 min

Lab File: BE091444.D

Acq: 4 Mar 2016 4:20

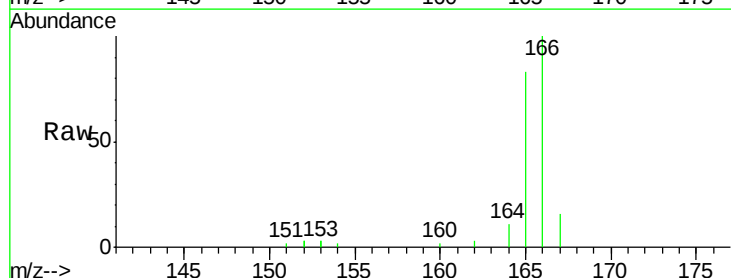
Tgt Ion:166 Resp: 8995

Ion Ratio Lower Upper

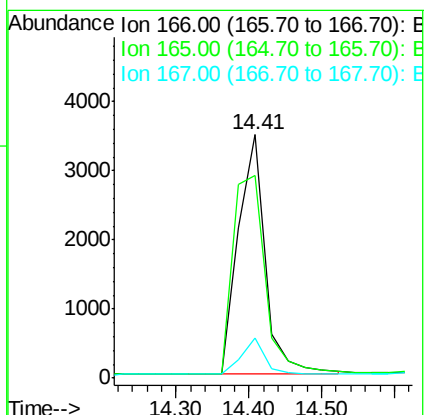
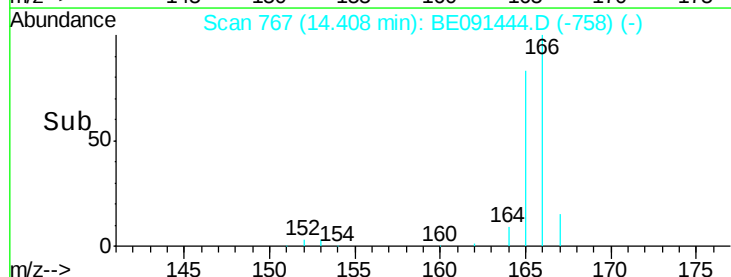
166 100

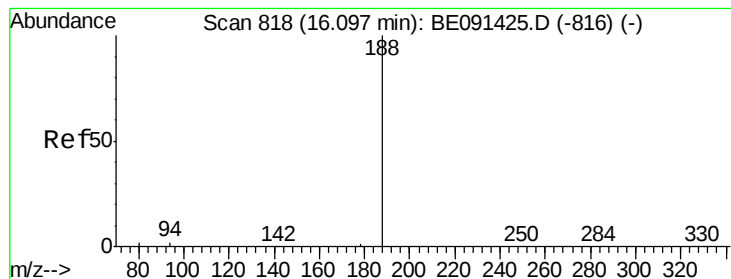
165 99.0 79.4 119.2

167 13.5 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: BE091444.D

Acq: 4 Mar 2016 4:20

Instrument :

BNA_E

ClientSampleId :

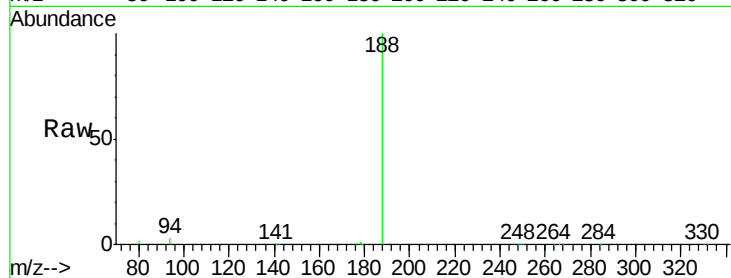
Tgt Ion:188 Resp: 161028

Ion Ratio Lower Upper

188 100

94 2.6 2.1 3.1

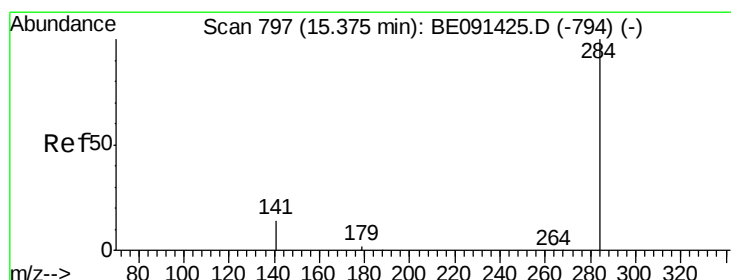
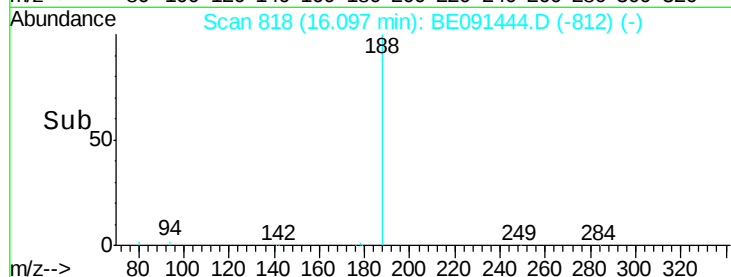
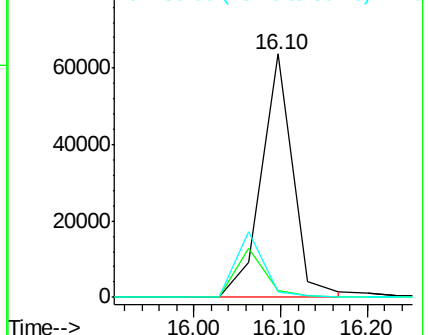
80 2.4 1.9 2.9



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: 0.28 ng

RT: 15.38 min Scan# 797

Delta R.T. 0.00 min

Lab File: BE091444.D

Acq: 4 Mar 2016 4:20

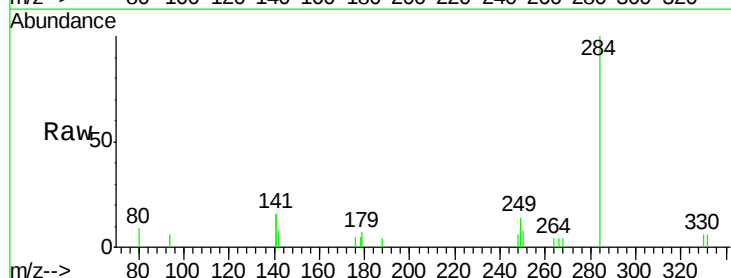
Tgt Ion:284 Resp: 2630

Ion Ratio Lower Upper

284 100

142 0.0 0.0 0.0

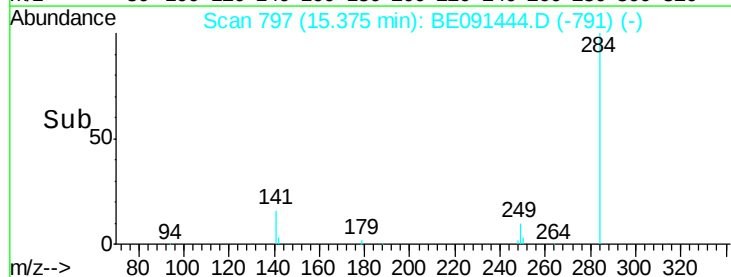
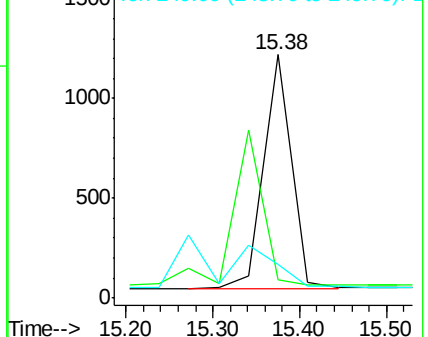
249 0.0 0.0 0.0

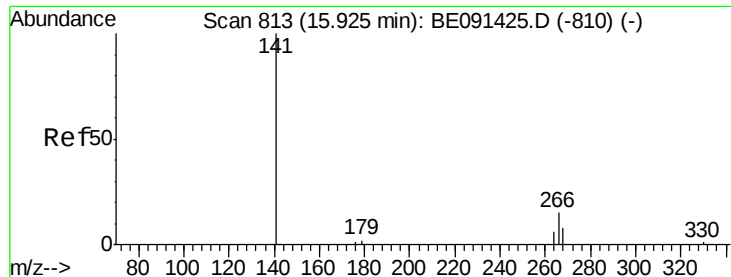


Abundance Ion 283.80 (283.50 to 284.50): E

Ion 142.00 (141.70 to 142.70): E

Ion 249.00 (248.70 to 249.70): E

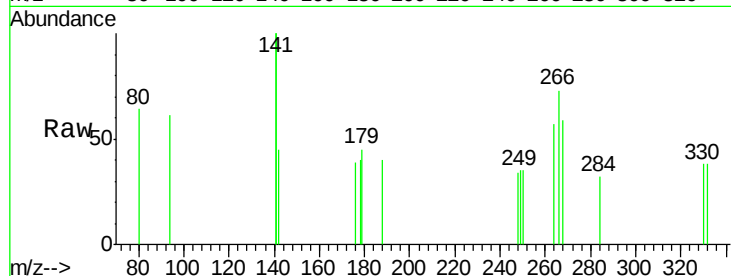




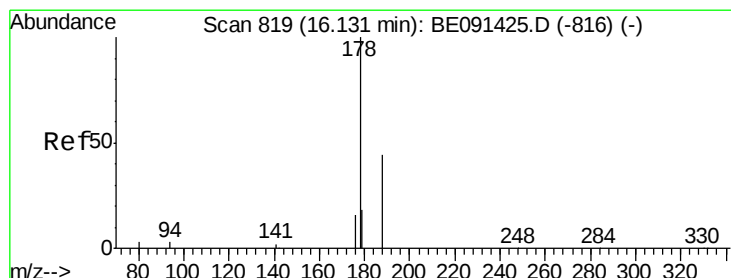
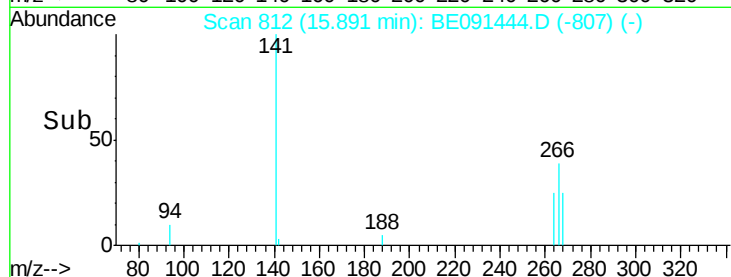
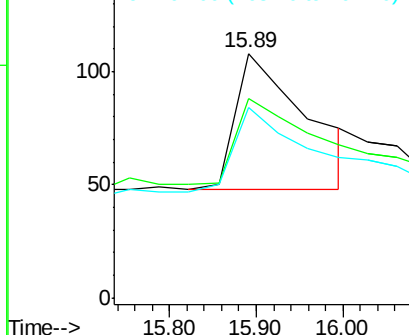
#15
 Pentachlorophenol
 Concen: 0.58 ng
 RT: 15.89 min Scan# 812
 Delta R.T. -0.03 min
 Lab File: BE091444.D
 Acq: 4 Mar 2016 4:20

Instrument :
 BNA_E
 ClientSampleId :

Tgt Ion: 266 Resp: 340
 Ion Ratio Lower Upper
 266 100
 268 81.5 73.0 109.6
 264 77.8 66.1 99.1

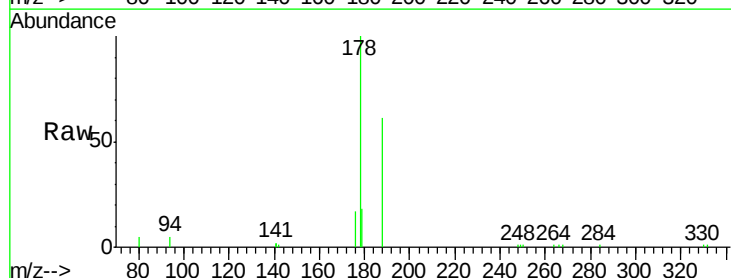


Abundance Ion 265.70 (265.40 to 266.40): E
 Ion 268.00 (267.70 to 268.70): E
 Ion 264.00 (263.70 to 264.70): E

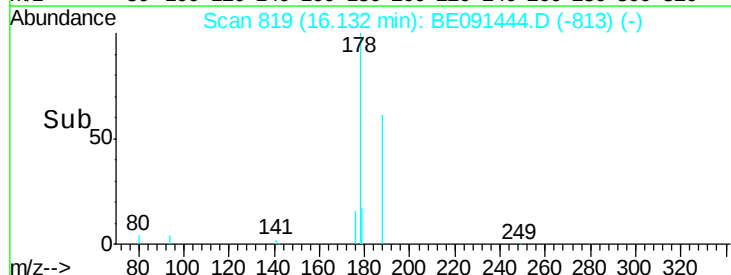
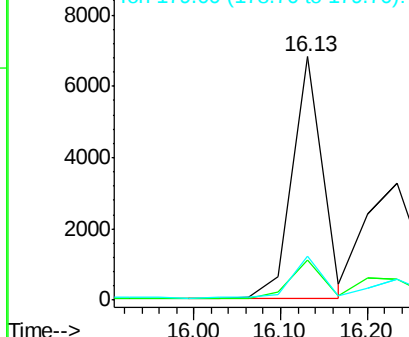


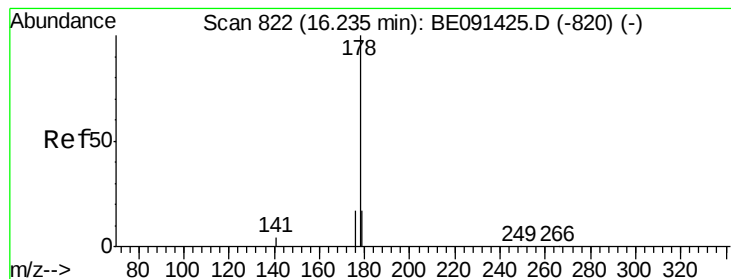
#16
 Phenanthrene
 Concen: 0.28 ng
 RT: 16.13 min Scan# 819
 Delta R.T. 0.00 min
 Lab File: BE091444.D
 Acq: 4 Mar 2016 4:20

Tgt Ion: 178 Resp: 16023
 Ion Ratio Lower Upper
 178 100
 176 17.1 13.8 20.8
 179 17.3 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: 0.31 ng

RT: 16.13 min Scan# 819

Delta R.T. -0.10 min

Lab File: BE091444.D

Acq: 4 Mar 2016 4:20

Instrument :

BNA_E

ClientSampleId :

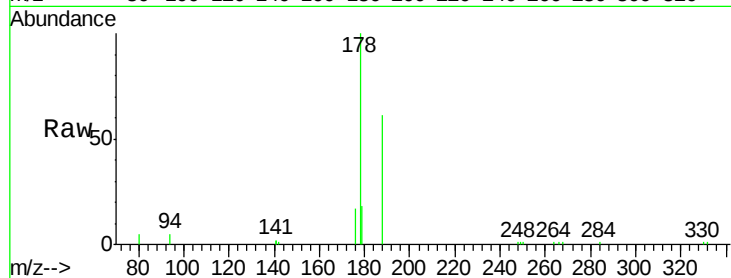
Tgt Ion:178 Resp: 15825

Ion Ratio Lower Upper

178 100

176 27.4 24.4 36.6

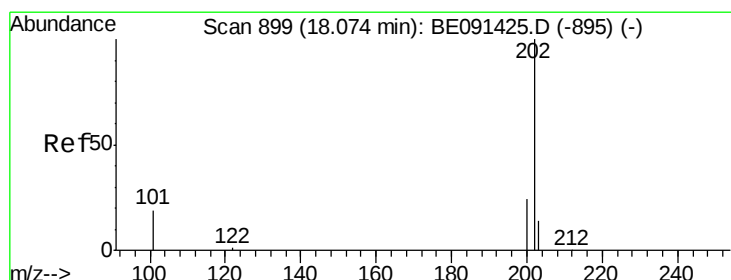
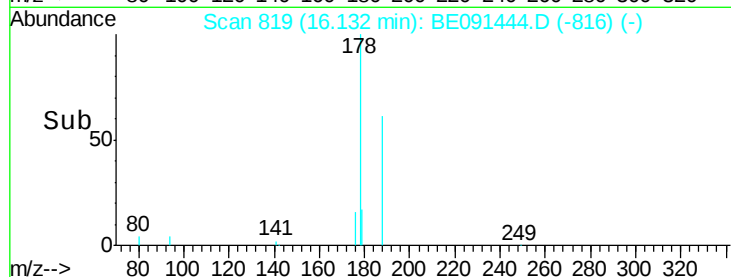
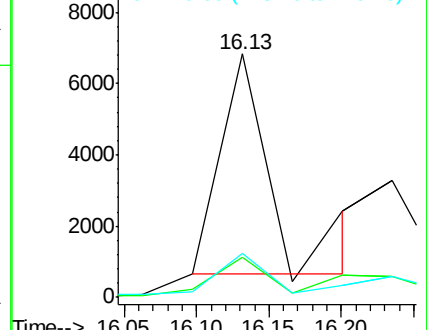
179 15.6 14.8 22.2



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: 0.28 ng

RT: 18.09 min Scan# 900

Delta R.T. 0.02 min

Lab File: BE091444.D

Acq: 4 Mar 2016 4:20

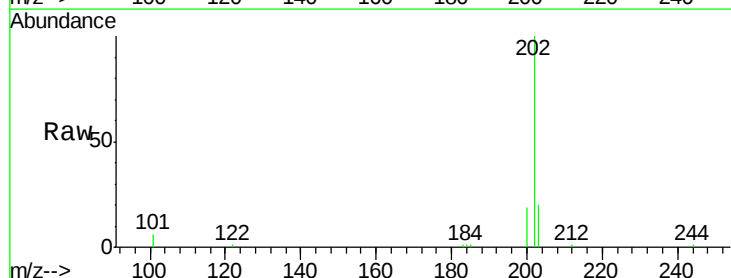
Tgt Ion:202 Resp: 17735

Ion Ratio Lower Upper

202 100

101 12.9 11.0 16.6

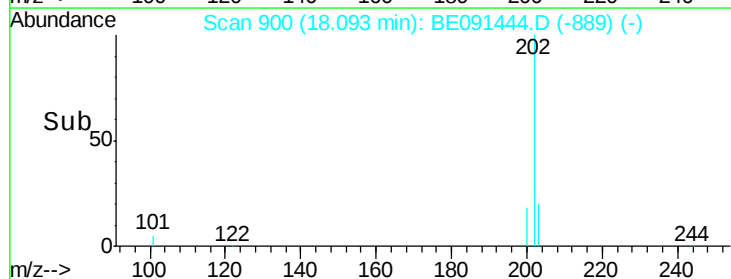
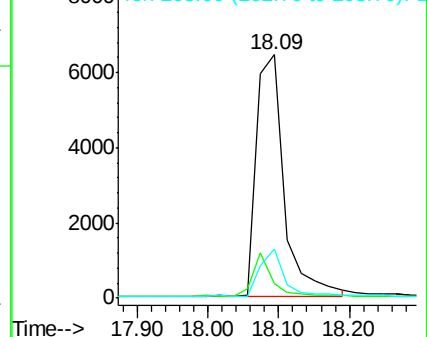
203 17.4 13.7 20.5

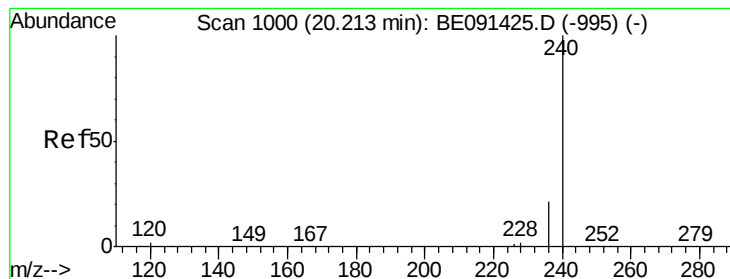


Abundance Ion 202.00 (201.70 to 202.70): E

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: BE091444.D

Acq: 4 Mar 2016 4:20

Instrument :

BNA_E

ClientSampleId :

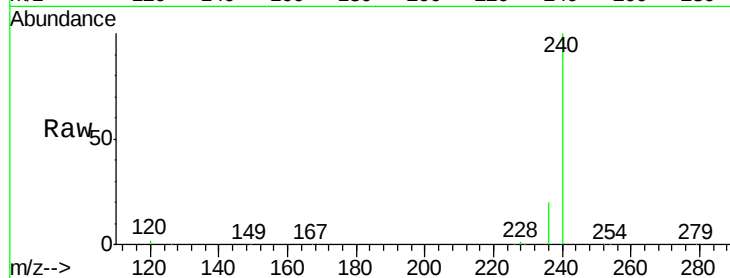
Tgt Ion:240 Resp: 272199

Ion Ratio Lower Upper

240 100

120 1.7 1.4 2.0

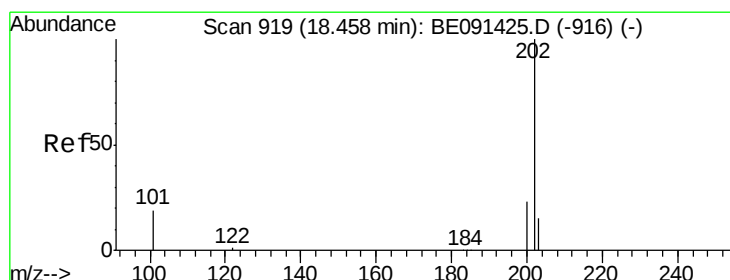
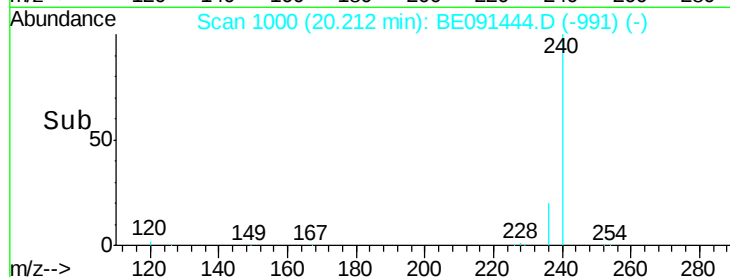
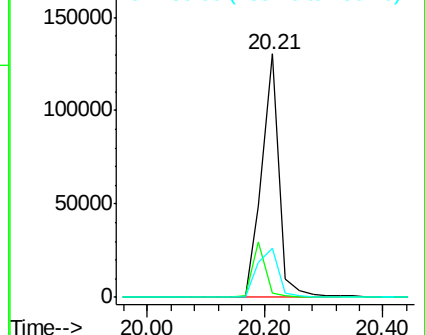
236 20.0 16.7 25.1



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: 0.24 ng

RT: 18.46 min Scan# 919

Delta R.T. 0.00 min

Lab File: BE091444.D

Acq: 4 Mar 2016 4:20

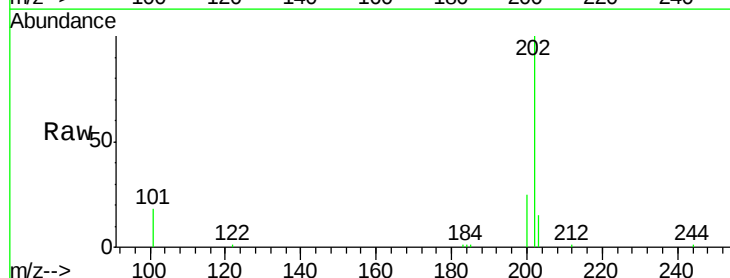
Tgt Ion:202 Resp: 18912

Ion Ratio Lower Upper

202 100

200 21.4 16.5 24.7

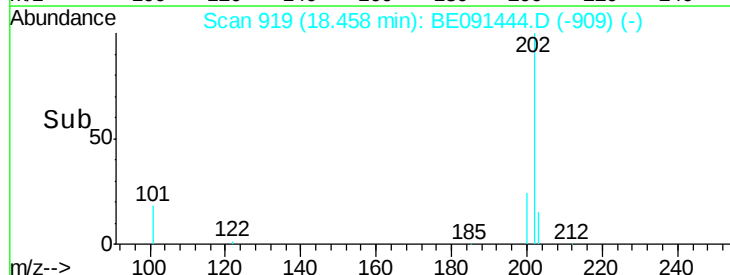
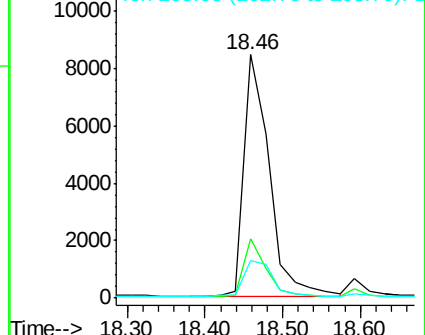
203 17.8 13.8 20.6

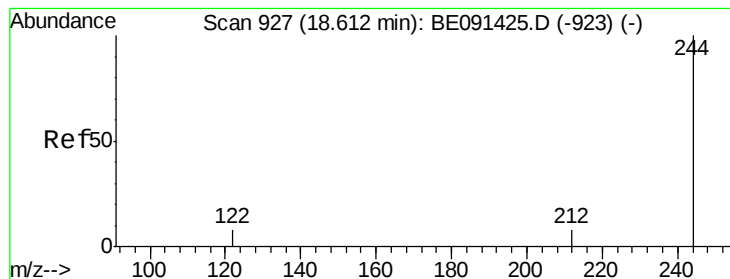


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#21

Terphenyl-d14

Concen: 4.88 ng

RT: 18.59 min Scan# 926

Delta R.T. -0.02 min

Lab File: BE091444.D

Acq: 4 Mar 2016 4:20

Instrument :

BNA_E

ClientSampleId :

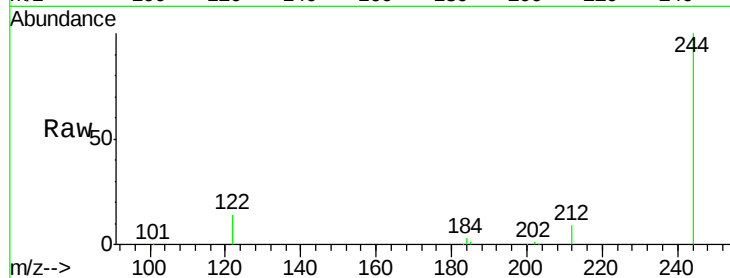
Tgt Ion:244 Resp: 201975

Ion Ratio Lower Upper

244 100

212 9.4 7.0 10.6

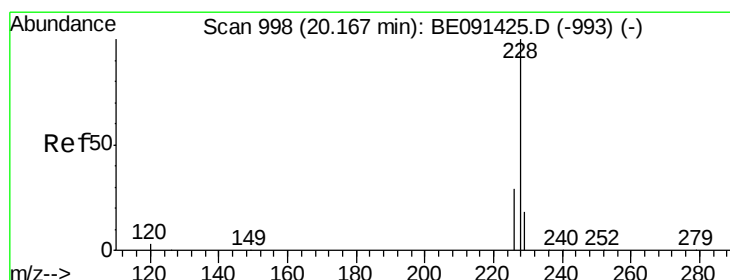
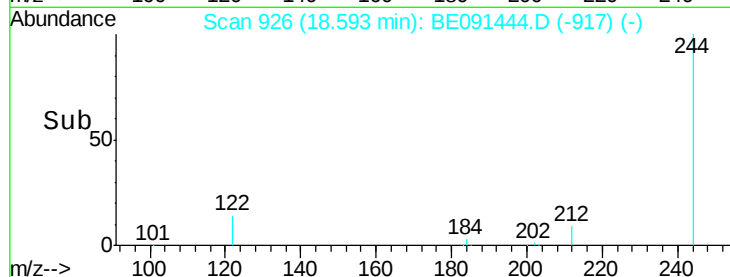
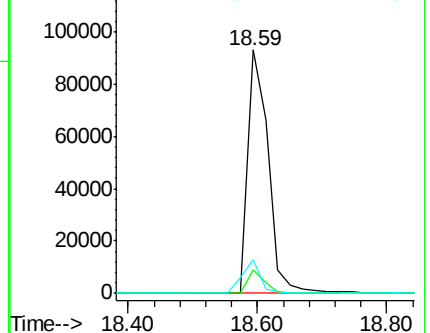
122 14.0 6.8 10.2#



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: 0.24 ng

RT: 20.17 min Scan# 998

Delta R.T. -0.00 min

Lab File: BE091444.D

Acq: 4 Mar 2016 4:20

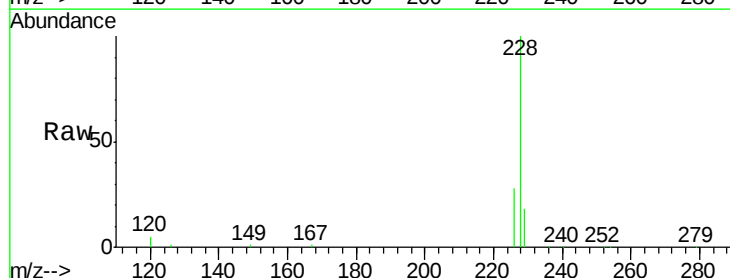
Tgt Ion:228 Resp: 22650

Ion Ratio Lower Upper

228 100

226 27.8 23.1 34.7

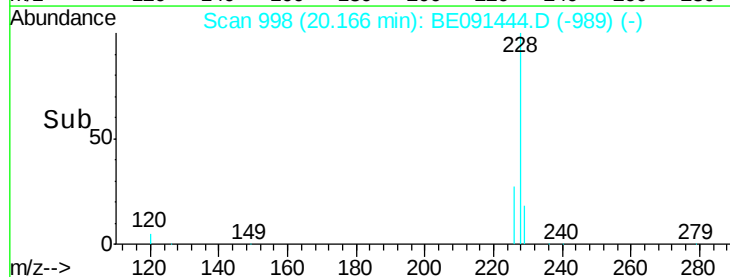
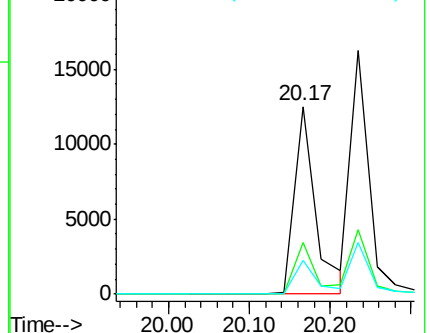
229 18.0 14.5 21.7

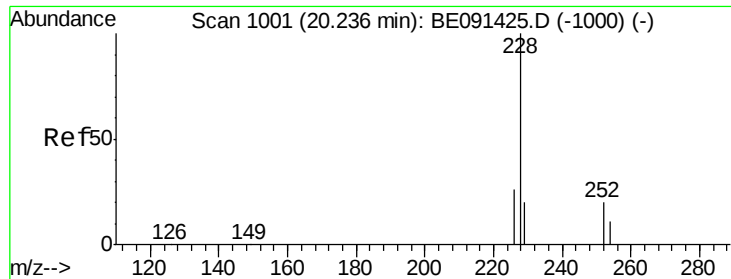


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

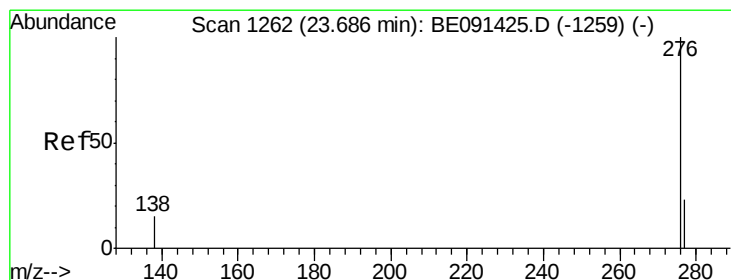
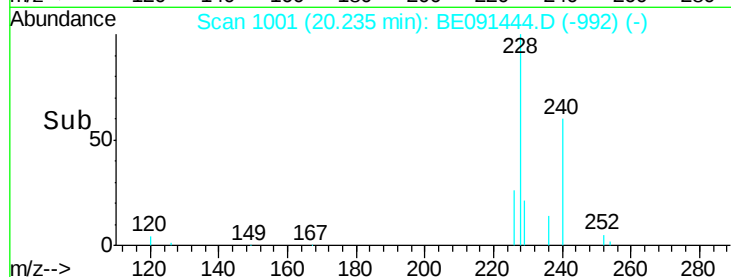
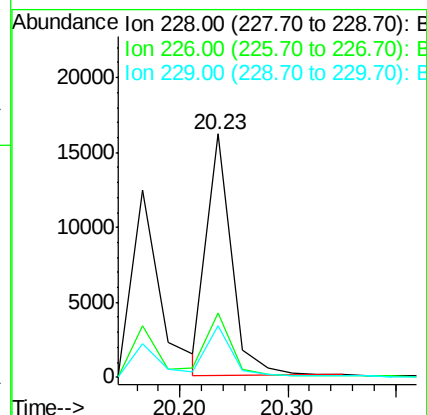
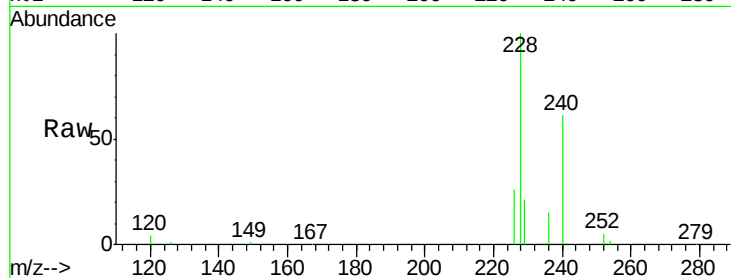




#23
Chrysene
Concen: 0.25 ng
RT: 20.23 min Scan# 1001
Delta R.T. -0.00 min
Lab File: BE091444.D
Acq: 4 Mar 2016 4:20

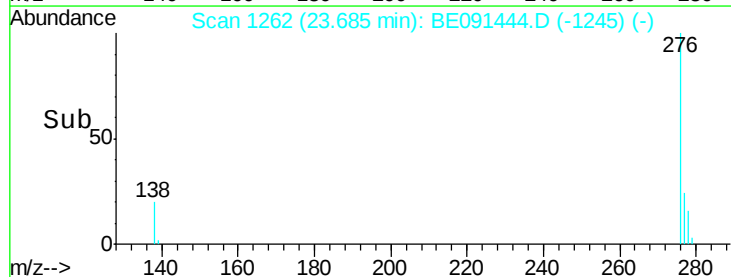
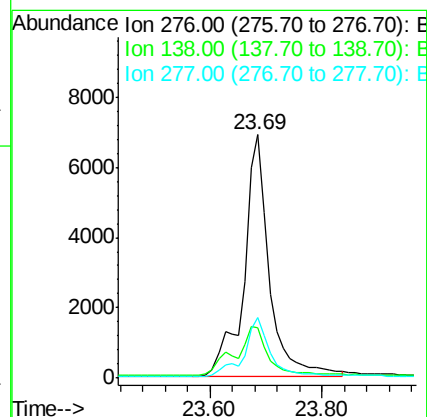
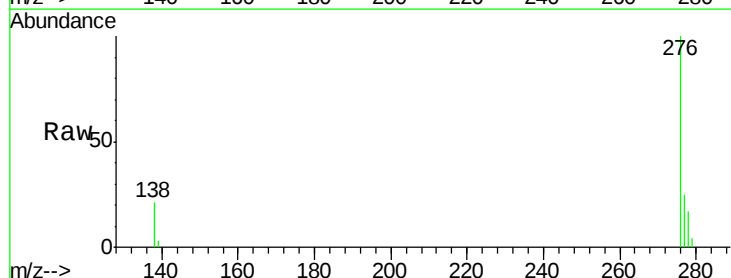
Instrument :
BNA_E
ClientSampled :

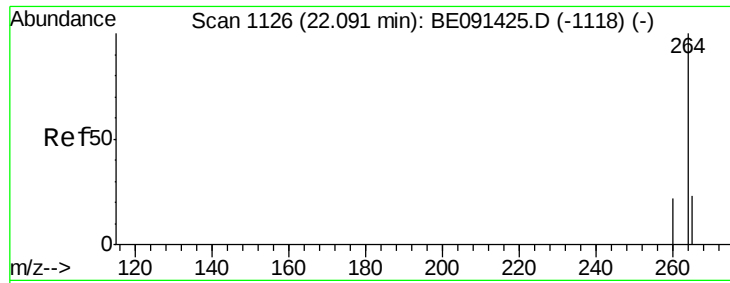
Tgt Ion: 228 Resp: 25571
Ion Ratio Lower Upper
228 100
226 26.5 22.0 33.0
229 21.0 16.2 24.2



#24
Indeno(1,2,3-cd)pyrene
Concen: 0.27 ng
RT: 23.69 min Scan# 1262
Delta R.T. -0.00 min
Lab File: BE091444.D
Acq: 4 Mar 2016 4:20

Tgt Ion: 276 Resp: 21950
Ion Ratio Lower Upper
276 100
138 26.0 16.1 24.1#
277 24.7 22.9 34.3

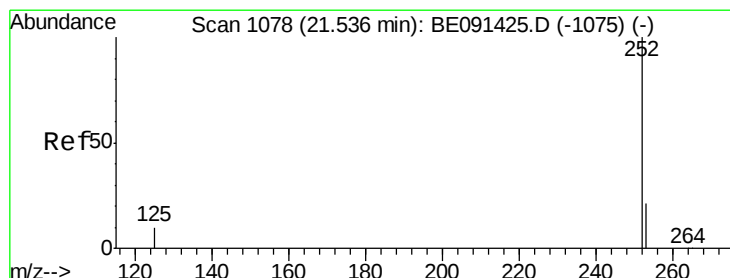
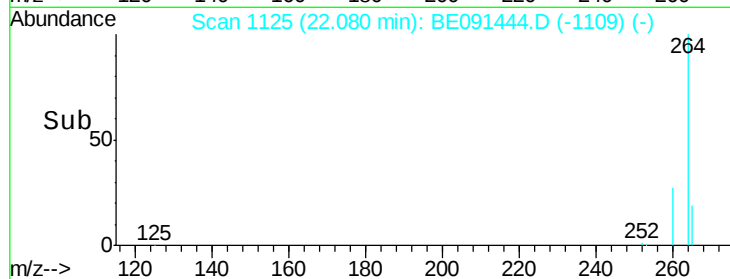
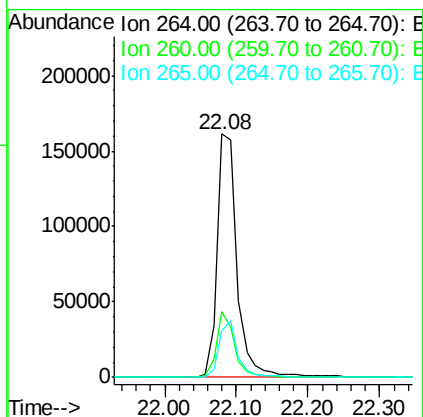
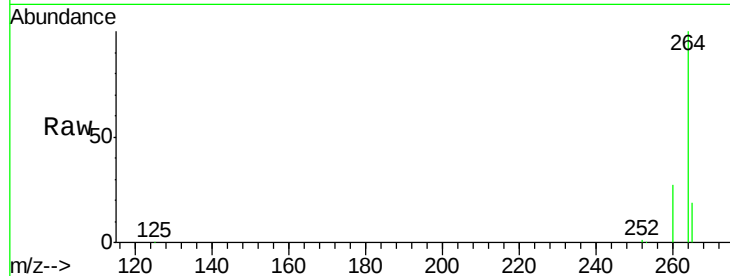




#25
Perylene-d12
Concen: 5.00 ng
RT: 22.08 min Scan# 1125
Delta R.T. -0.01 min
Lab File: BE091444.D
Acq: 4 Mar 2016 4:20

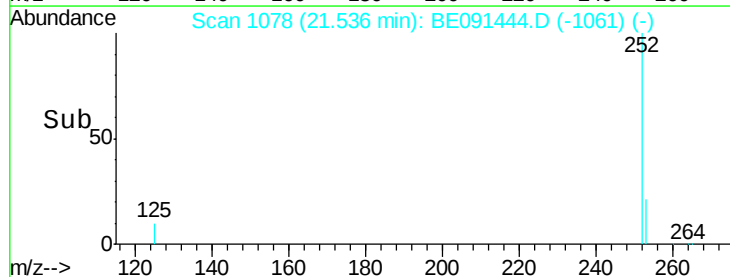
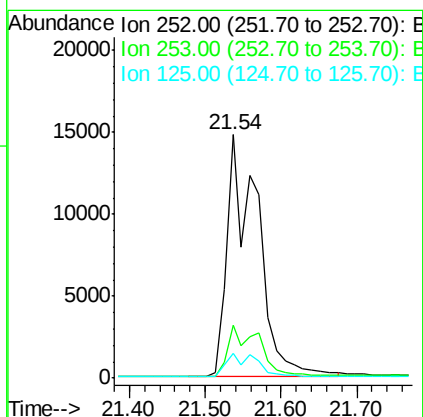
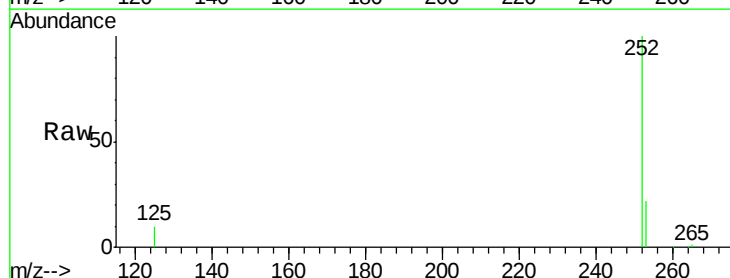
Instrument :
BNA_E
ClientSampleId :

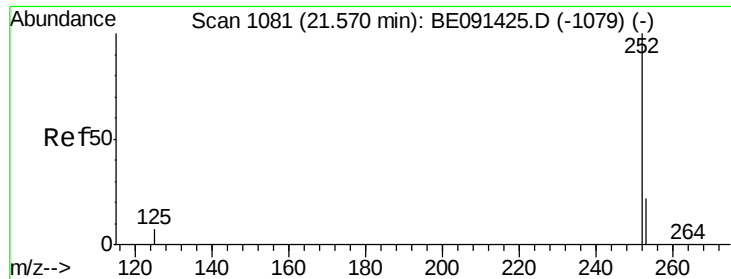
Tgt Ion: 264 Resp: 309871
Ion Ratio Lower Upper
264 100
260 27.1 18.0 27.0#
265 19.2 18.2 27.4



#26
Benzo(b)fluoranthene
Concen: 0.48 ng
RT: 21.54 min Scan# 1078
Delta R.T. 0.00 min
Lab File: BE091444.D
Acq: 4 Mar 2016 4:20

Tgt Ion: 252 Resp: 41761
Ion Ratio Lower Upper
252 100
253 21.9 17.0 25.4
125 10.2 8.3 12.5

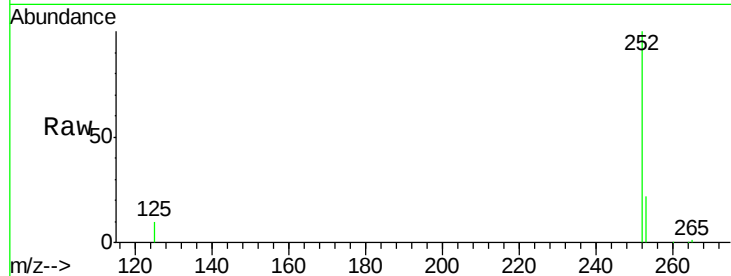




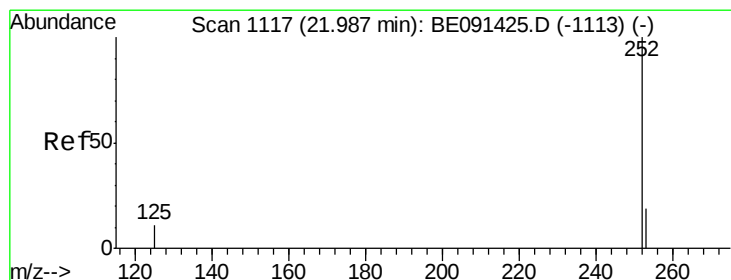
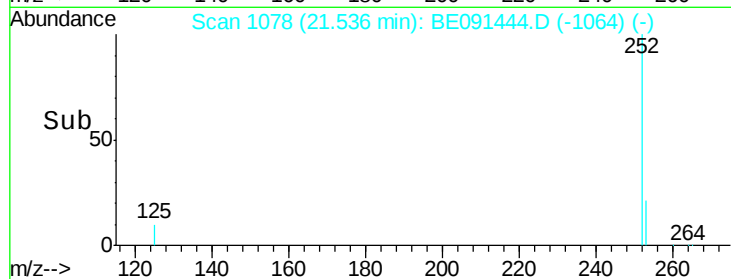
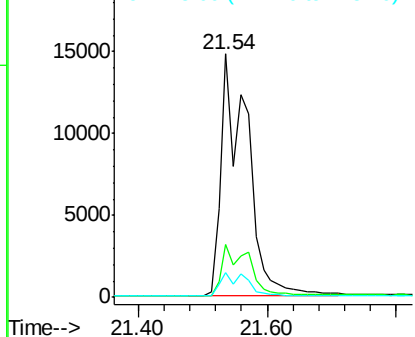
#27
Benzo(k)fluoranthene
Concen: 0.50 ng
RT: 21.54 min Scan# 1078
Delta R.T. -0.03 min
Lab File: BE091444.D
Acq: 4 Mar 2016 4:20

Instrument :
BNA_E
ClientSampleId :

Tgt Ion: 252 Resp: 42125
Ion Ratio Lower Upper
252 100
253 21.9 19.5 29.3
125 10.2 7.3 10.9

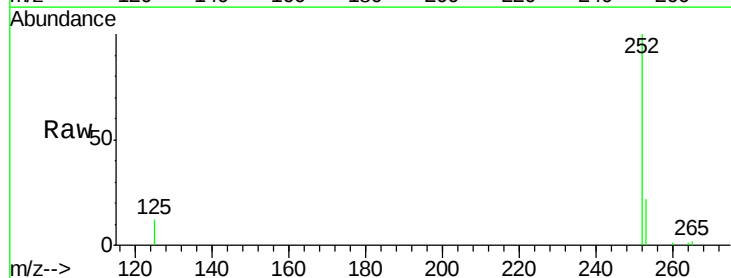


Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E

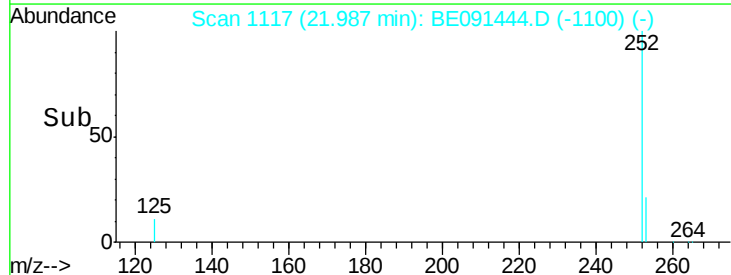
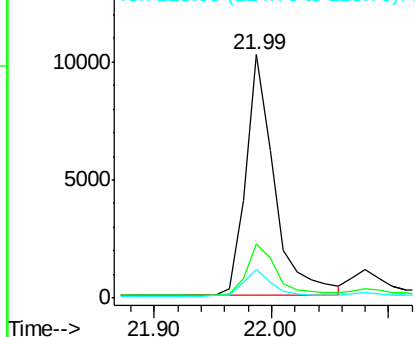


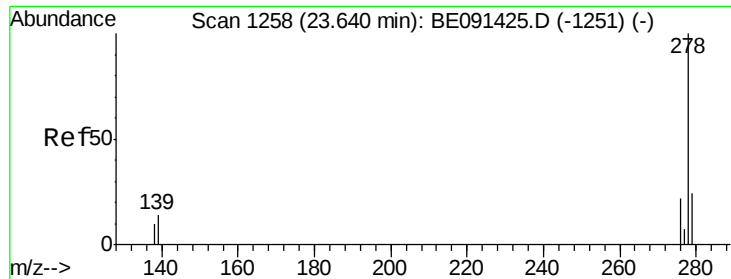
#28
Benzo(a)pyrene
Concen: 0.23 ng
RT: 21.99 min Scan# 1117
Delta R.T. 0.00 min
Lab File: BE091444.D
Acq: 4 Mar 2016 4:20

Tgt Ion: 252 Resp: 17283
Ion Ratio Lower Upper
252 100
253 22.2 16.2 24.4
125 11.9 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: 0.23 ng

RT: 23.64 min Scan# 1258

Delta R.T. -0.00 min

Lab File: BE091444.D

Acq: 4 Mar 2016 4:20

Instrument :

BNA_E

ClientSampleId :

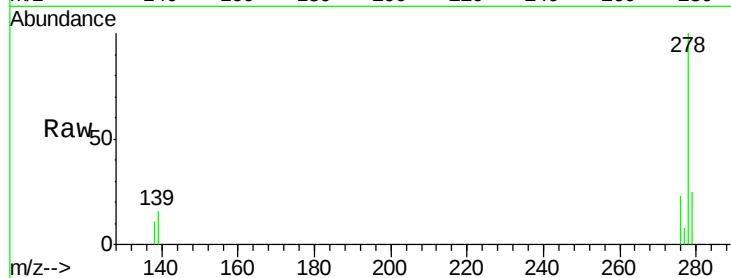
Tgt Ion: 278 Resp: 16633

Ion Ratio Lower Upper

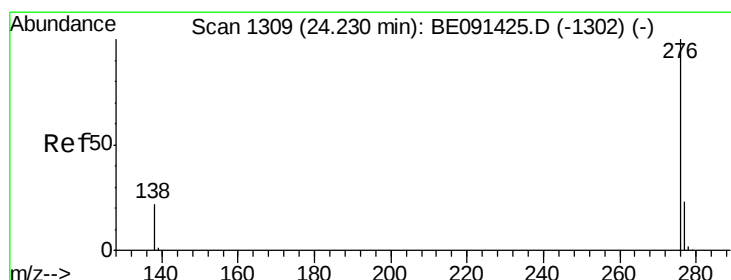
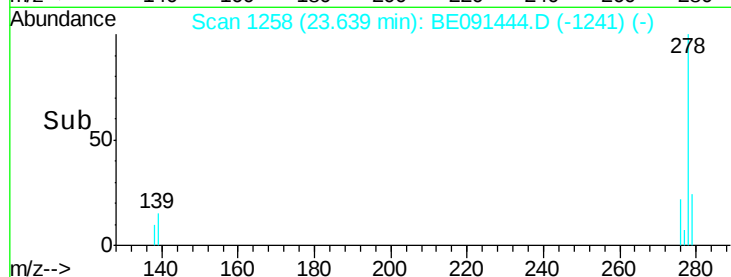
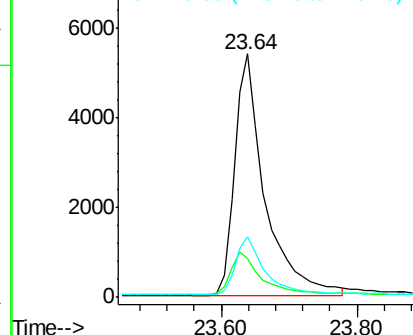
278 100

139 16.0 12.1 18.1

279 25.0 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: 0.25 ng

RT: 24.23 min Scan# 1309

Delta R.T. -0.00 min

Lab File: BE091444.D

Acq: 4 Mar 2016 4:20

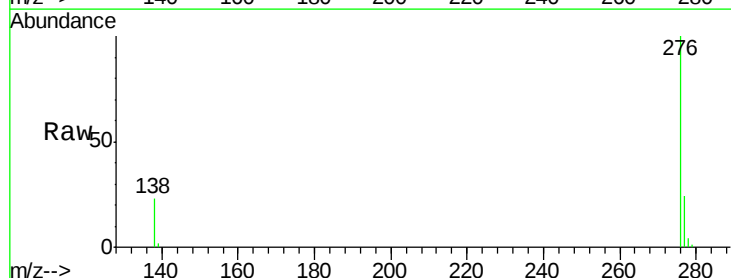
Tgt Ion: 276 Resp: 19215

Ion Ratio Lower Upper

276 100

277 23.5 19.0 28.6

138 23.3 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

