

Data Path : Z:\HPCHEM1\BNA E\DATA\BE031716\
 Data File : BE091466.D
 Acq On : 17 Mar 2016 14:49
 Operator : UM/SJ
 Sample : H1746-01MSD
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :

Quant Time: Mar 17 14:54:21 2016
 Quant Method : Z:\HPCHEM1\BNA E\METHODS\SIM-BE031616.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Mar 17 15:28:00 2016
 Response via : Initial Calibration

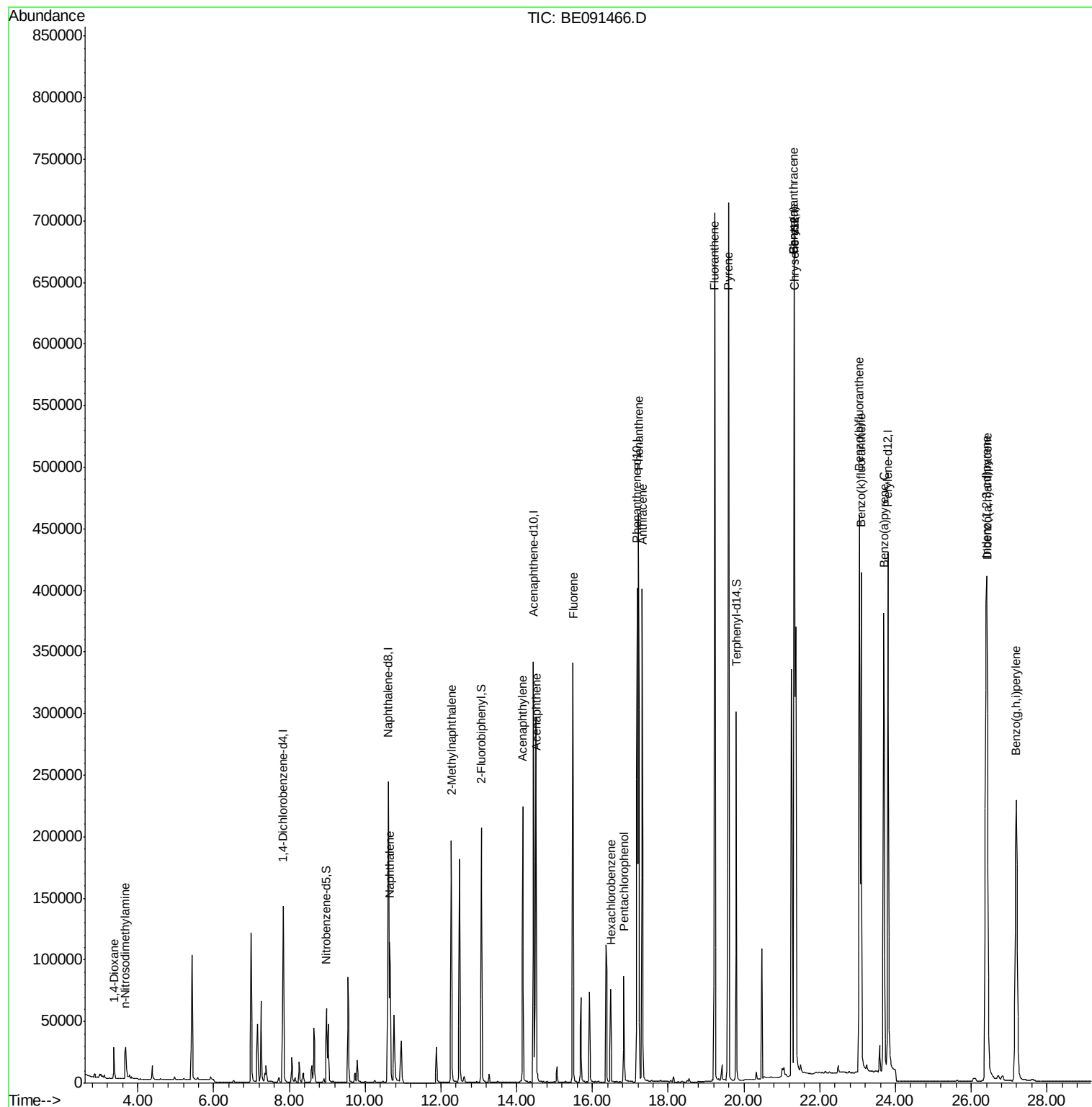
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.84	152	70536	5.00	ng	0.00
4) Naphthalene-d8	10.61	136	339825	5.00	ng	0.00
8) Acenaphthene-d10	14.45	164	208120	5.00	ng	0.00
13) Phenanthrene-d10	17.18	188	504443	5.00	ng	0.00
19) Chrysene-d12	21.34	240	683251	5.00	ng	0.00
25) Perylene-d12	23.81	264	621399	5.00	ng	0.00
System Monitoring Compounds						
5) Nitrobenzene-d5	8.98	82	54486	3.02	ng	-0.01
9) 2-Fluorobiphenyl	13.07	172	210027	3.91	ng	-0.01
21) Terphenyl-d14	19.80	244	390228	3.85	ng	0.00
Target Compounds						Ovalue
2) 1,4-Dioxane	3.37	88	16923	2.03	ng	# 100
3) n-Nitrosodimethylamine	3.66	42	26715	1.97	ng	# 100
6) Naphthalene	10.65	128	201547	2.41	ng	# 95
7) 2-Methylnaphthalene	12.27	142	155618	2.86	ng	# 89
10) Acenaphthylene	14.16	152	265944	2.93	ng	# 100
11) Acenaphthene	14.51	154	185161	2.89	ng	# 100
12) Fluorene	15.49	166	244765	2.96	ng	# 100
14) Hexachlorobenzene	16.48	284	70142	3.17	ng	# 100
15) Pentachlorophenol	16.83	266	58861	4.97	ng	# 92
16) Phenanthrene	17.22	178	507520	3.52	ng	# 100
17) Anthracene	17.31	178	422620	3.29	ng	# 100
18) Fluoranthene	19.23	202	693912	4.22	ng	# 68
20) Pyrene	19.59	202	712092	3.65	ng	# 92
22) Benzo(a)anthracene	21.31	228	1233006	5.15	ng	# 95
23) Chrysene	21.31	228	1239159	8.07	ng	# 90
24) Indeno(1,2,3-cd)pyrene	26.40	276	678653	2.97	ng	# 100
26) Benzo(b)fluoranthene	23.04	252	668837	3.16	ng	# 93
27) Benzo(k)fluoranthene	23.10	252	638730	3.25	ng	# 95
28) Benzo(a)pyrene	23.69	252	615581	3.42	ng	# 92
29) Dibenzo(a,h)anthracene	26.42	278	548976	3.14	ng	# 97
30) Benzo(g,h,i)perylene	27.18	276	580321	3.18	ng	# 99

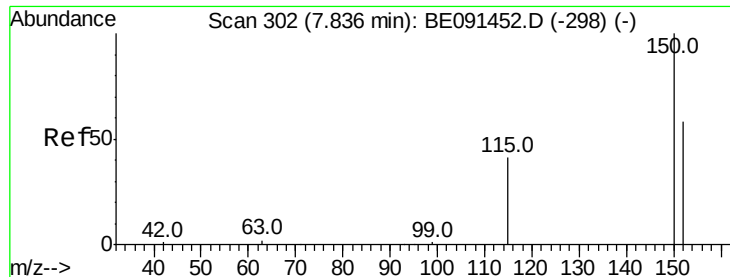
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 7.84 min Scan# 302

Delta R.T. 0.00 min

Lab File: BE091466.D

Acq: 17 Mar 2016 14:49

Instrument :

BNA_E

ClientSampled :

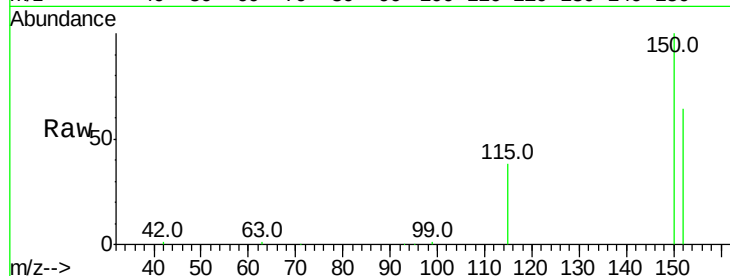
Tot Ion:152 Resp: 70536

Ion Ratio Lower Upper

152 100

150 155.3 136.8 205.2

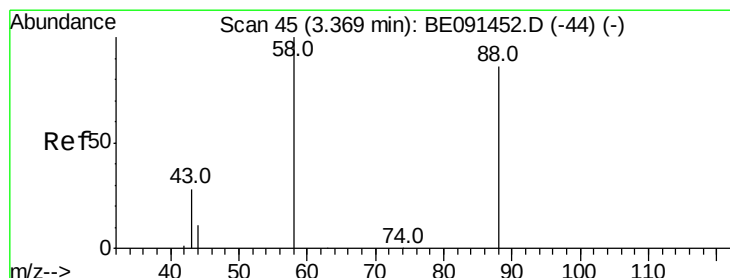
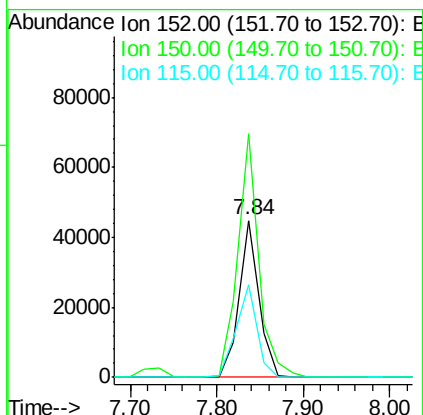
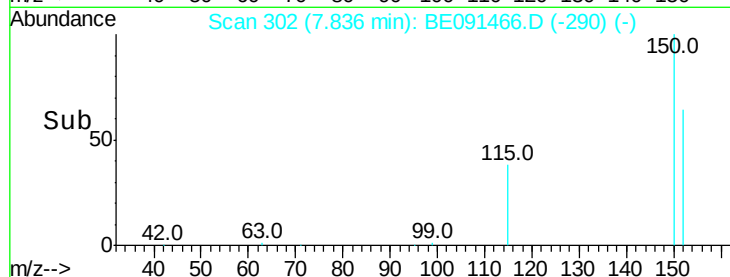
115 59.2 56.9 85.3



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: 2.03 ng

RT: 3.37 min Scan# 45

Delta R.T. -0.00 min

Lab File: BE091466.D

Acq: 17 Mar 2016 14:49

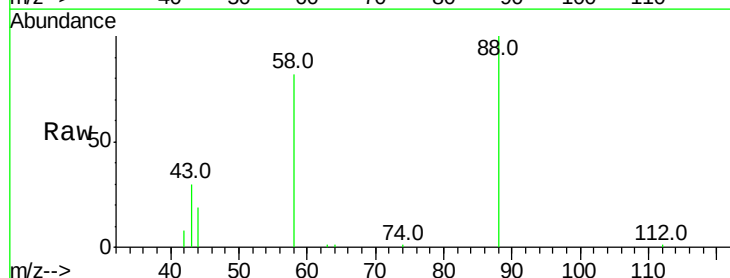
Tgt Ion: 88 Resp: 16923

Ion Ratio Lower Upper

88 100

58 80.7 0.0 0.0#

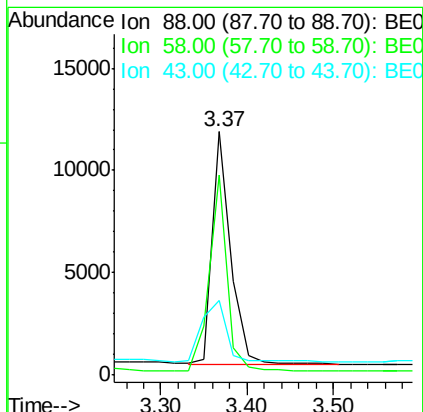
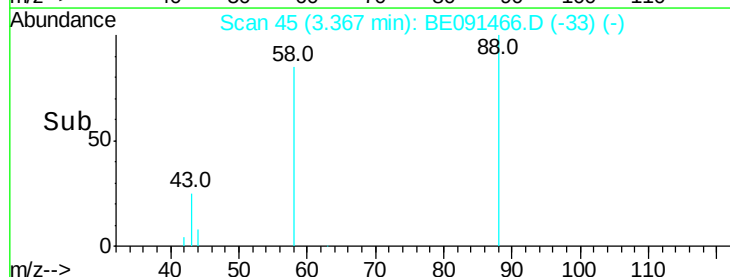
43 34.6 0.0 0.0#

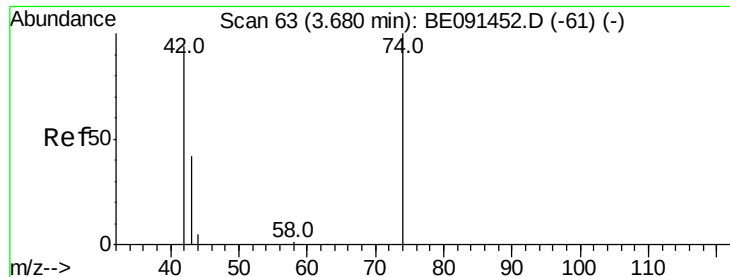


Abundance Ion 88.00 (87.70 to 88.70): BE0

Ion 58.00 (57.70 to 58.70): BE0

Ion 43.00 (42.70 to 43.70): BE0





#3

n-Nitrosodimethylamine

Concen: 1.97 ng

RT: 3.66 min Scan# 62

Delta R.T. -0.02 min

Lab File: BE091466.D

Acq: 17 Mar 2016 14:49

Instrument :

BNA_E

ClientSampleId :

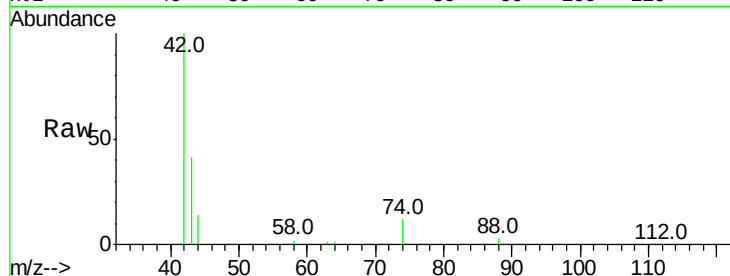
Tot Ion: 42 Resp: 26715

Ion Ratio Lower Upper

42 100

74 97.2 0.0 0.0#

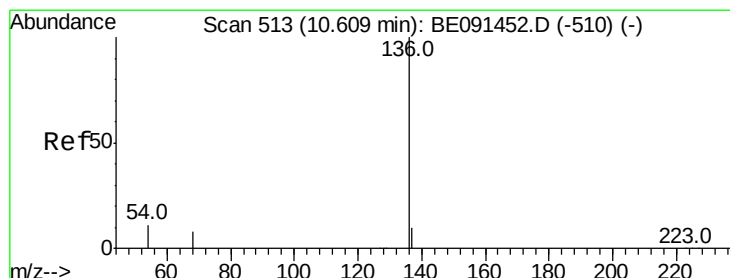
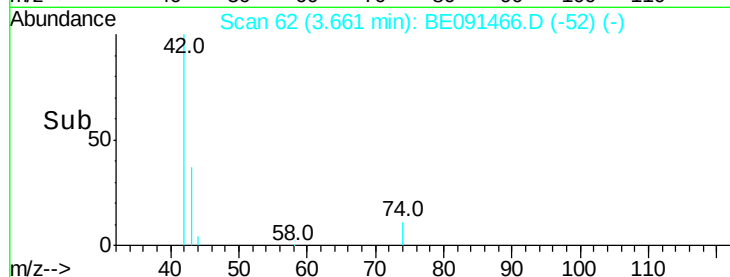
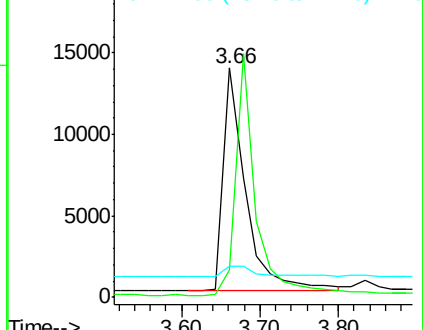
44 7.5 0.0 0.0#



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: 10.61 min Scan# 513

Delta R.T. 0.00 min

Lab File: BE091466.D

Acq: 17 Mar 2016 14:49

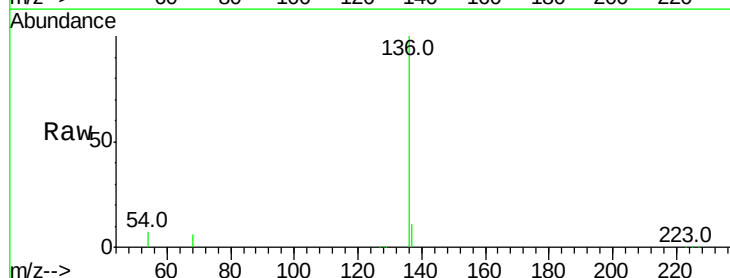
Tgt Ion: 136 Resp: 339825

Ion Ratio Lower Upper

136 100

137 10.9 8.0 12.0

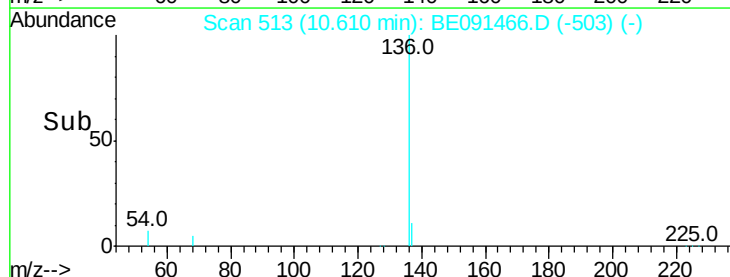
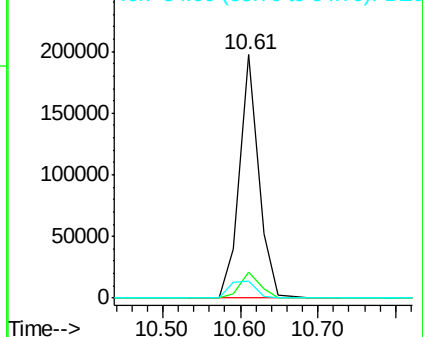
54 7.2 9.1 13.7#

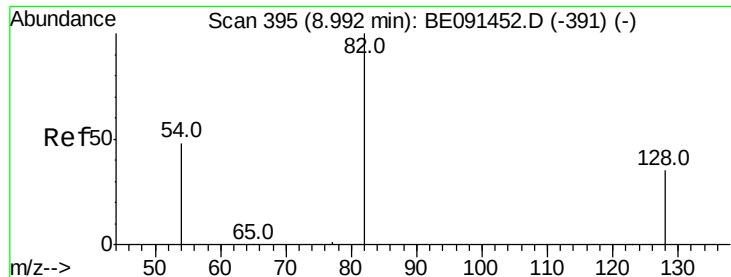


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BE0





#5

Nitrobenzene-d5

Concen: 3.02 ng

RT: 8.98 min Scan# 394

Delta R.T. -0.01 min

Lab File: BE091466.D

Acq: 17 Mar 2016 14:49

Instrument :

BNA_E

ClientSampleId :

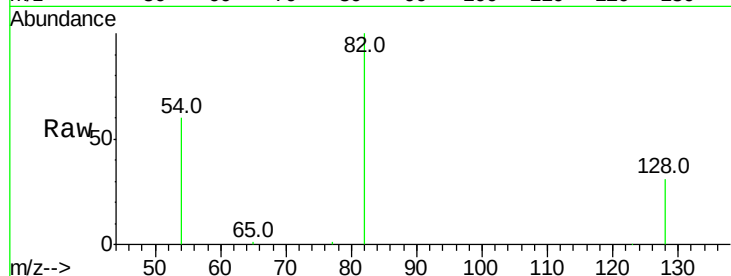
Tot Ion: 82 Resp: 54486

Ion Ratio Lower Upper

82 100

128 30.7 29.4 44.2

54 60.4 39.8 59.8#

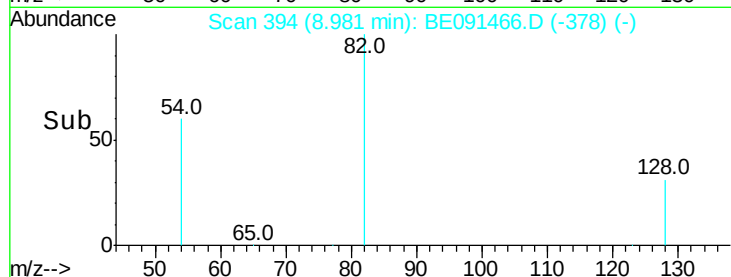


Abundance Ion 82.00 (81.70 to 82.70): BE091452.D (-391) (-)

Ion 128.00 (127.70 to 128.70): BE091452.D (-391) (-)

Ion 54.00 (53.70 to 54.70): BE091452.D (-391) (-)

Time-->

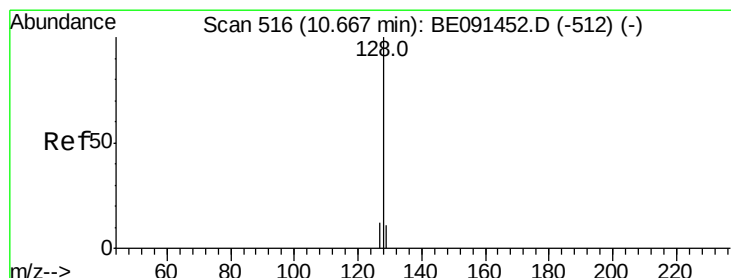


Abundance Ion 82.00 (81.70 to 82.70): BE091466.D (-378) (-)

Ion 128.00 (127.70 to 128.70): BE091466.D (-378) (-)

Ion 54.00 (53.70 to 54.70): BE091466.D (-378) (-)

Time-->



#6

Naphthalene

Concen: 2.41 ng

RT: 10.65 min Scan# 515

Delta R.T. -0.02 min

Lab File: BE091466.D

Acq: 17 Mar 2016 14:49

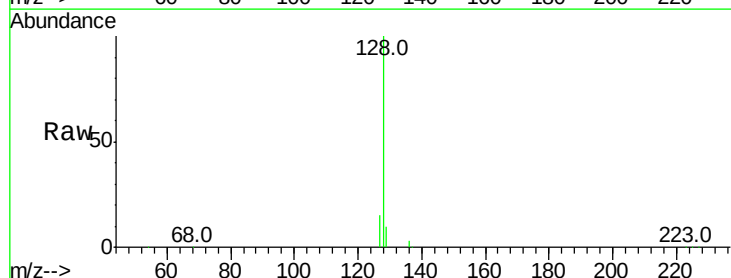
Tgt Ion: 128 Resp: 201547

Ion Ratio Lower Upper

128 100

129 10.0 9.4 14.0

127 14.6 9.7 14.5#

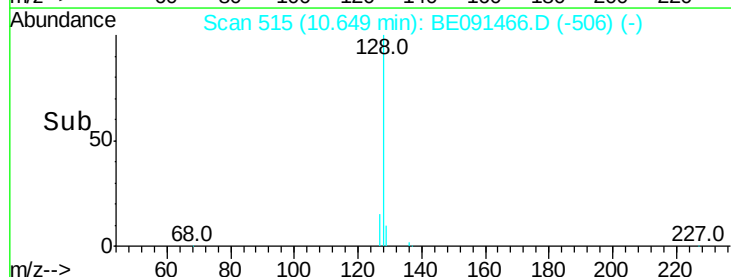


Abundance Ion 128.00 (127.70 to 128.70): BE091452.D (-512) (-)

Ion 129.00 (128.70 to 129.70): BE091452.D (-512) (-)

Ion 127.00 (126.70 to 127.70): BE091452.D (-512) (-)

Time-->

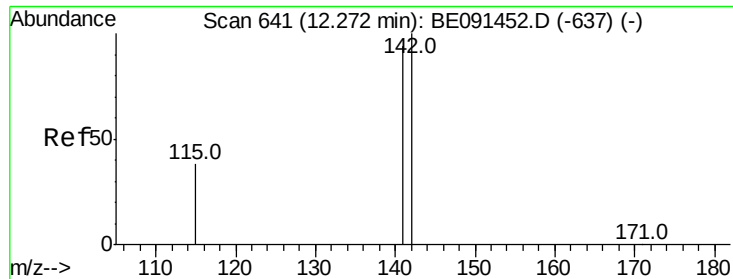


Abundance Ion 128.00 (127.70 to 128.70): BE091466.D (-506) (-)

Ion 129.00 (128.70 to 129.70): BE091466.D (-506) (-)

Ion 127.00 (126.70 to 127.70): BE091466.D (-506) (-)

Time-->



#7

2-Methylnaphthalene

Concen: 2.86 ng

RT: 12.27 min Scan# 641

Delta R.T. 0.00 min

Lab File: BE091466.D

Acq: 17 Mar 2016 14:49

Instrument :

BNA_E

ClientSampleId :

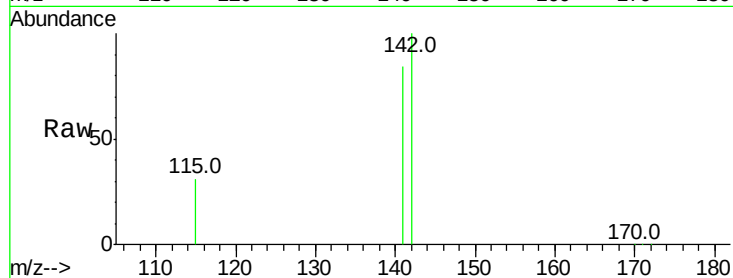
Tot Ion:142 Resp: 155618

Ion Ratio Lower Upper

142 100

141 84.3 75.0 112.4

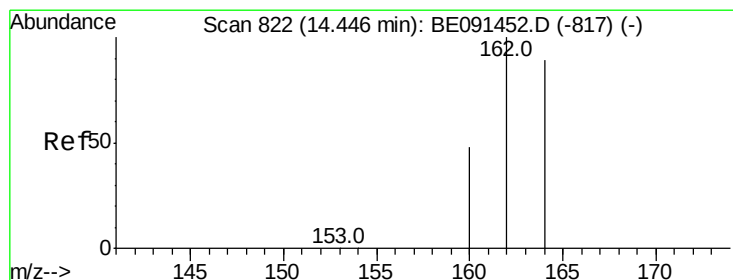
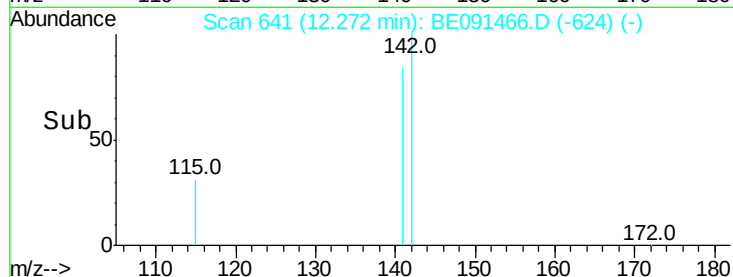
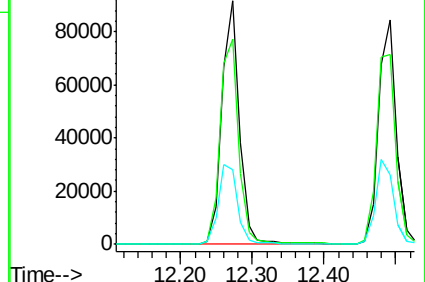
115 30.9 30.8 46.2



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: 14.45 min Scan# 822

Delta R.T. -0.00 min

Lab File: BE091466.D

Acq: 17 Mar 2016 14:49

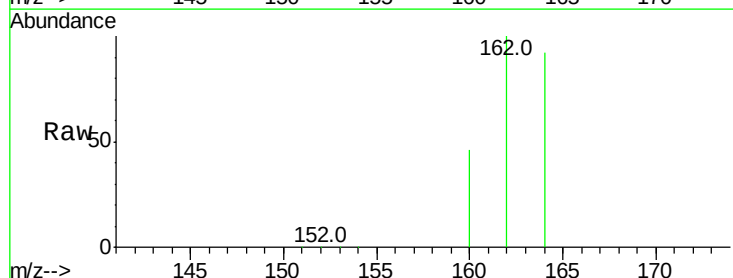
Tgt Ion:164 Resp: 208120

Ion Ratio Lower Upper

164 100

162 108.3 89.8 134.8

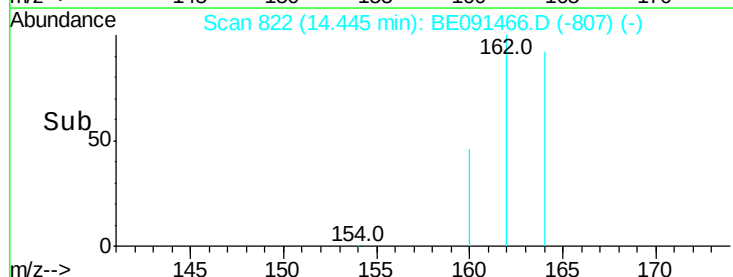
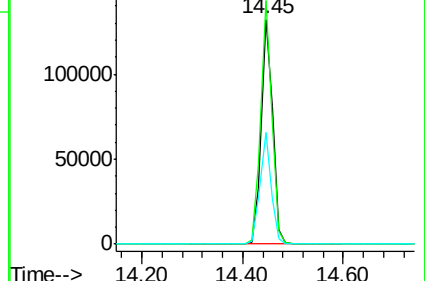
160 49.6 43.1 64.7

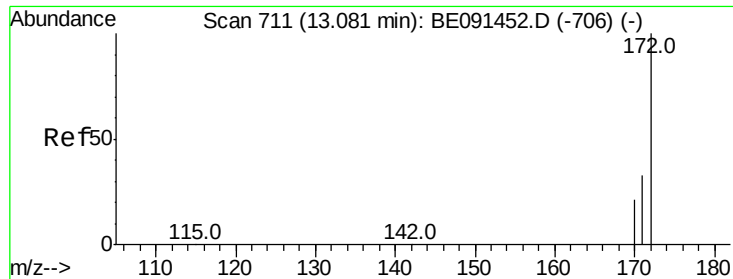


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E





#9

2-Fluorobiphenyl

Concen: 3.91 ng

RT: 13.07 min Scan# 710

Delta R.T. -0.01 min

Lab File: BE091466.D

Acq: 17 Mar 2016 14:49

Instrument :

BNA_E

ClientSampleId :

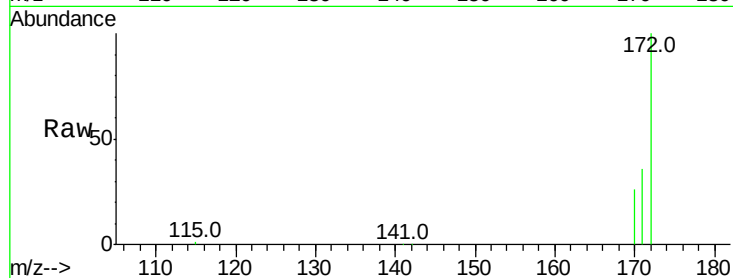
Tot Ion:172 Resp: 210027

Ion Ratio Lower Upper

172 100

171 36.4 26.7 40.1

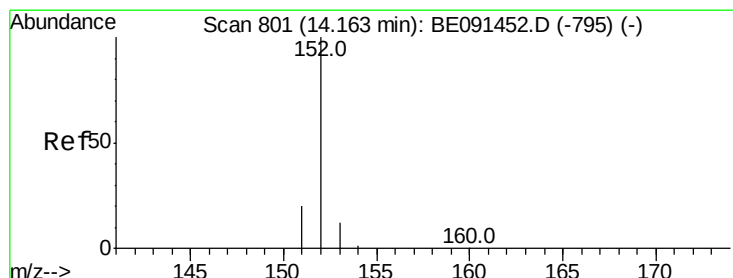
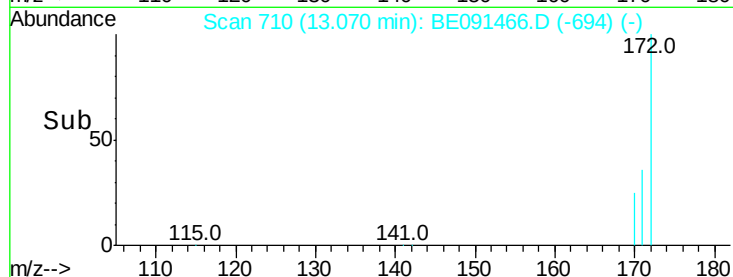
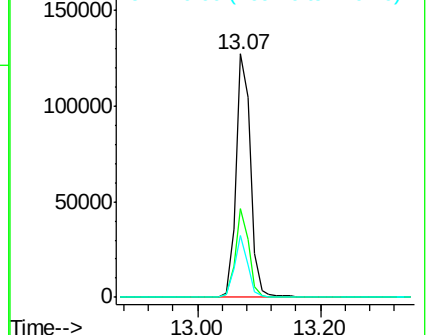
170 25.5 17.4 26.2



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: 2.93 ng

RT: 14.16 min Scan# 801

Delta R.T. -0.00 min

Lab File: BE091466.D

Acq: 17 Mar 2016 14:49

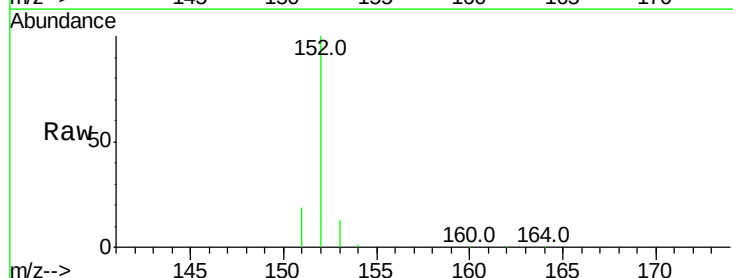
Tgt Ion:152 Resp: 265944

Ion Ratio Lower Upper

152 100

151 21.6 0.0 0.0#

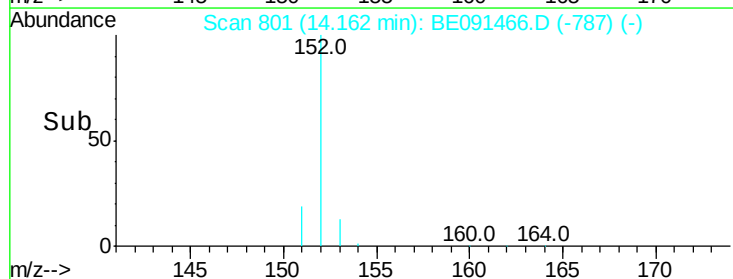
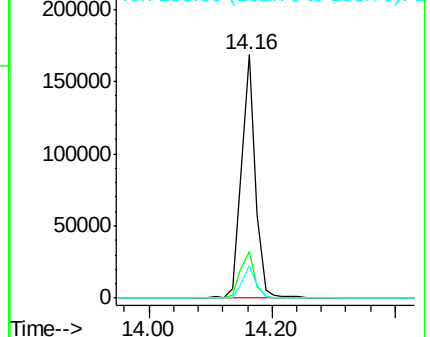
153 13.1 0.0 0.0#

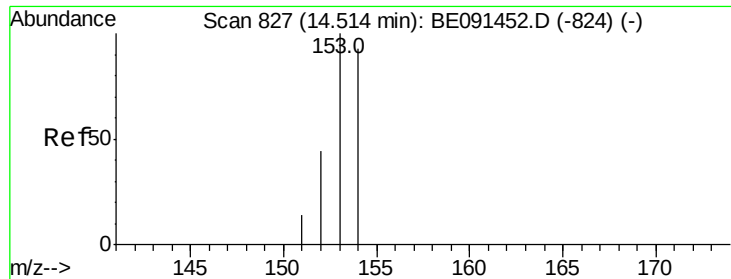


Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E

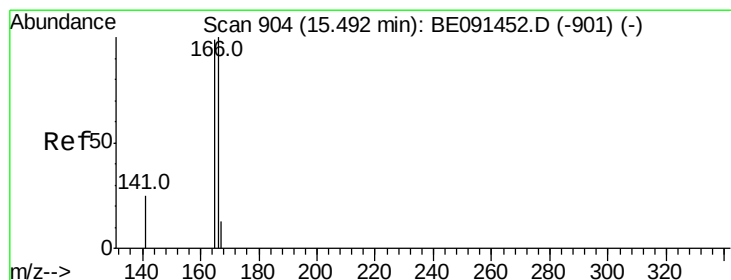
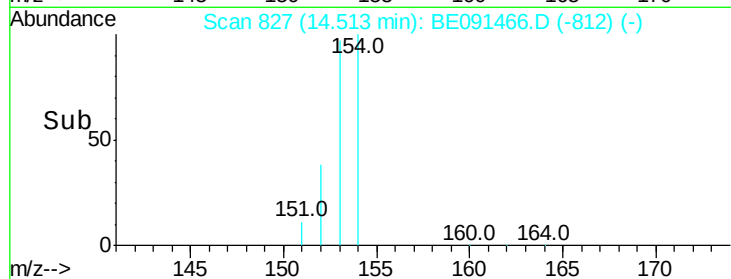
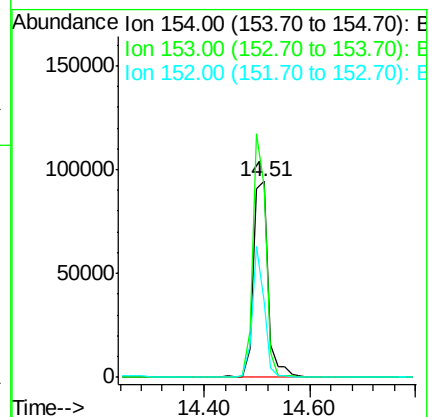
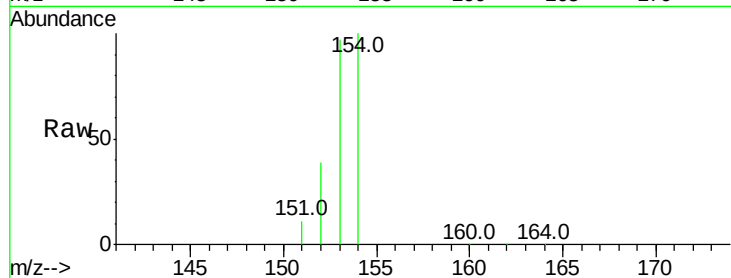




#11
Acenaphthene
Concen: 2.89 ng
RT: 14.51 min Scan# 827
Delta R.T. -0.00 min
Lab File: BE091466.D
Acq: 17 Mar 2016 14:49

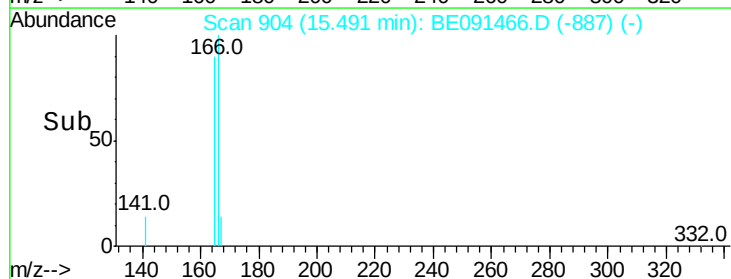
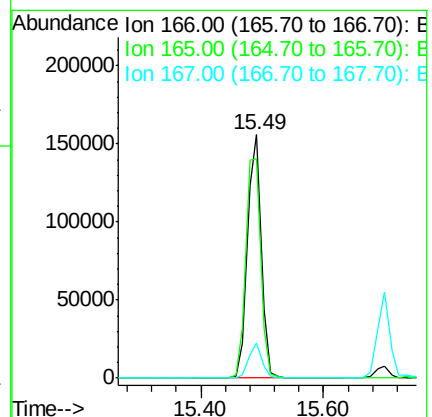
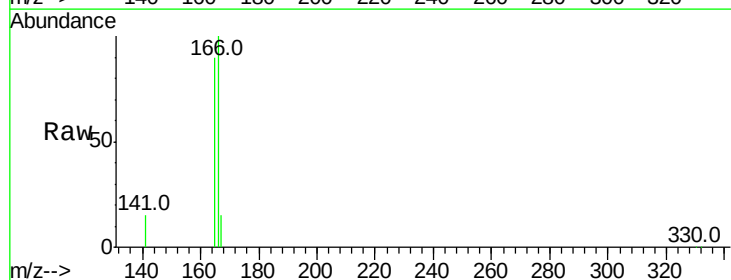
Instrument :
BNA_E
ClientSampleId :

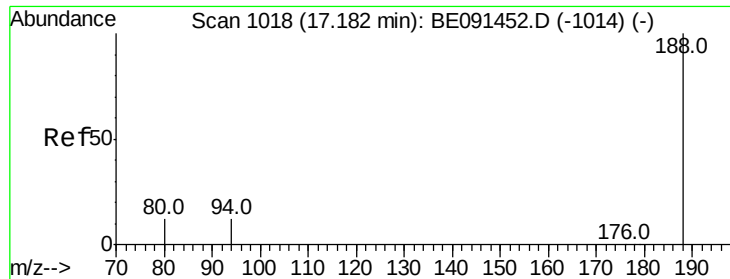
Tot Ion:154 Resp: 185161
Ion Ratio Lower Upper
154 100
153 107.5 0.0 0.0#
152 52.5 0.0 0.0#



#12
Fluorene
Concen: 2.96 ng
RT: 15.49 min Scan# 904
Delta R.T. -0.00 min
Lab File: BE091466.D
Acq: 17 Mar 2016 14:49

Tgt Ion:166 Resp: 244765
Ion Ratio Lower Upper
166 100
165 98.9 0.0 0.0#
167 13.7 0.0 0.0#

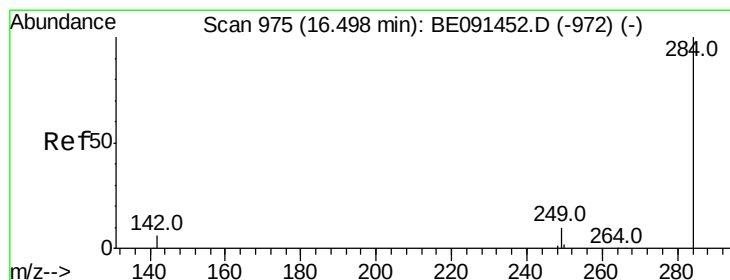
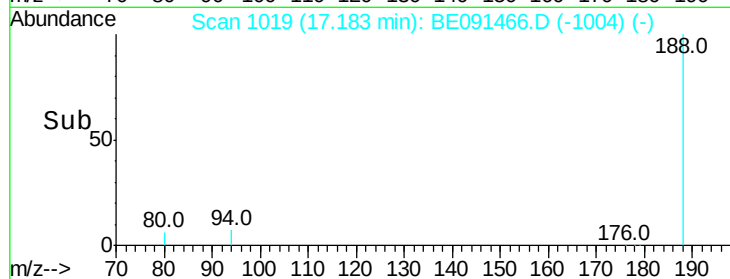
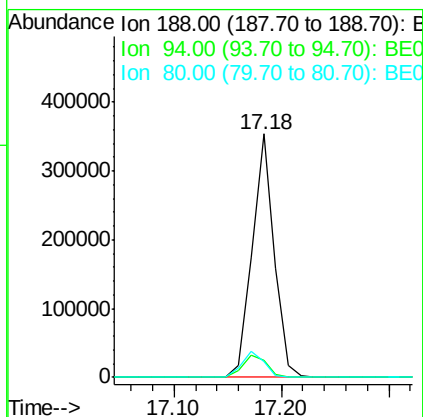
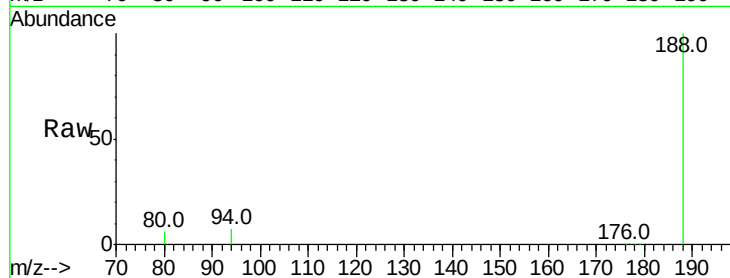




#13
Phenanthrene-d10
Concen: 5.00 ng
RT: 17.18 min Scan# 1019
Delta R.T. 0.00 min
Lab File: BE091466.D
Acq: 17 Mar 2016 14:49

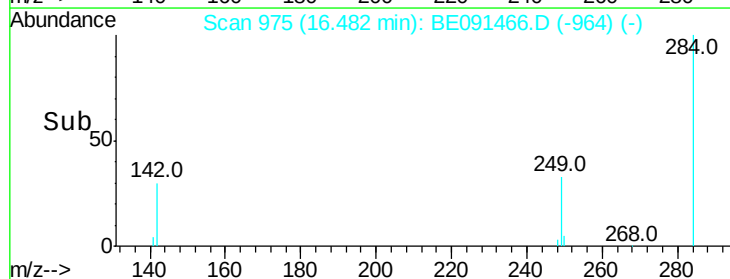
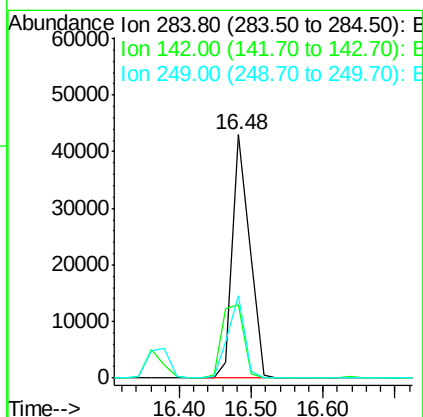
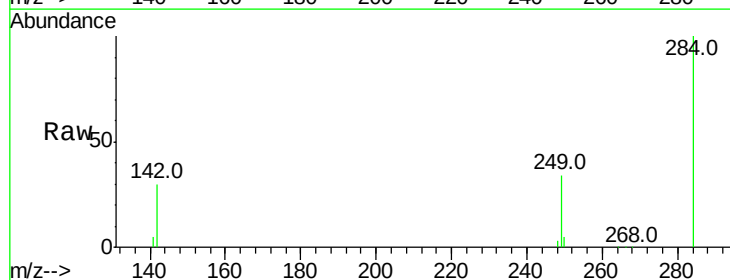
Instrument :
BNA_E
ClientSampleId :

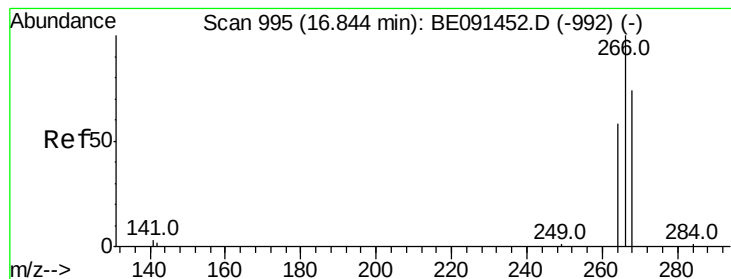
Tot Ion:188 Resp: 504443
Ion Ratio Lower Upper
188 100
94 6.9 9.5 14.3#
80 6.3 9.8 14.8#



#14
Hexachlorobenzene
Concen: 3.17 ng
RT: 16.48 min Scan# 975
Delta R.T. -0.02 min
Lab File: BE091466.D
Acq: 17 Mar 2016 14:49

Tgt Ion:284 Resp: 70142
Ion Ratio Lower Upper
284 100
142 38.4 0.0 0.0#
249 32.3 0.0 0.0#





#15

Pentachlorophenol

Concen: 4.97 ng

RT: 16.83 min Scan# 995

Delta R.T. -0.01 min

Lab File: BE091466.D

Acq: 17 Mar 2016 14:49

Instrument :

BNA_E

ClientSampleId :

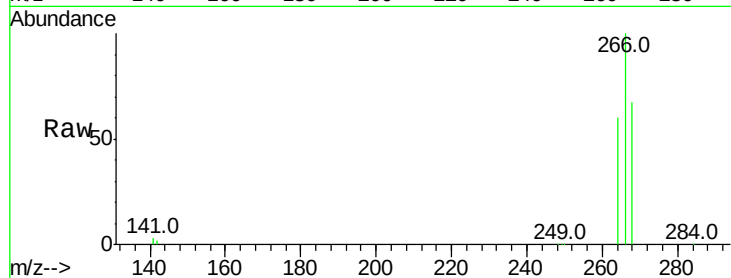
Tot Ion:266 Resp: 58861

Ion Ratio Lower Upper

266 100

268 66.6 61.0 91.6

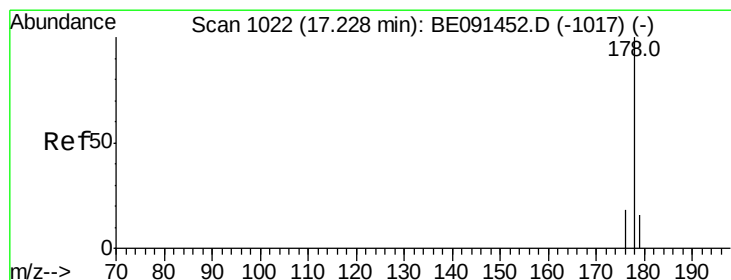
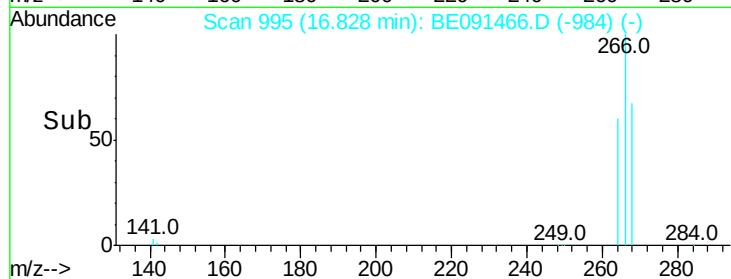
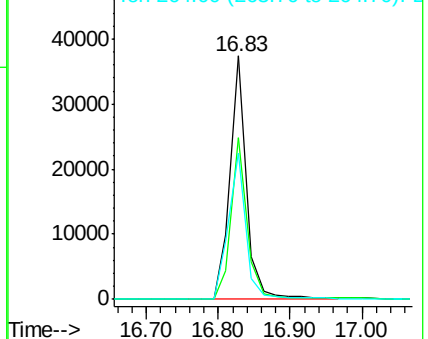
264 60.0 45.7 68.5



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: 3.52 ng

RT: 17.22 min Scan# 1022

Delta R.T. -0.01 min

Lab File: BE091466.D

Acq: 17 Mar 2016 14:49

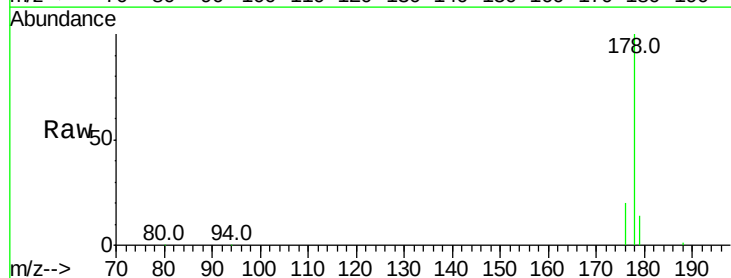
Tgt Ion:178 Resp: 507520

Ion Ratio Lower Upper

178 100

176 19.3 0.0 0.0#

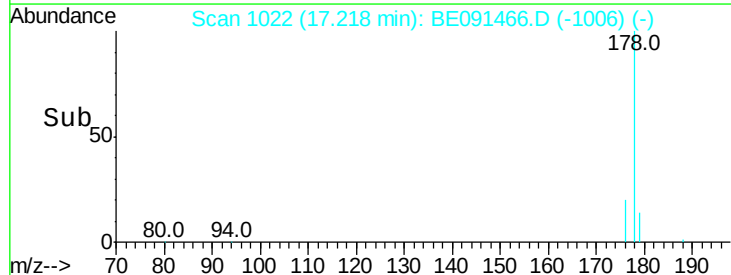
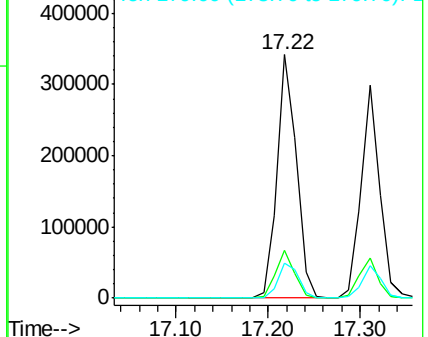
179 15.4 0.0 0.0#

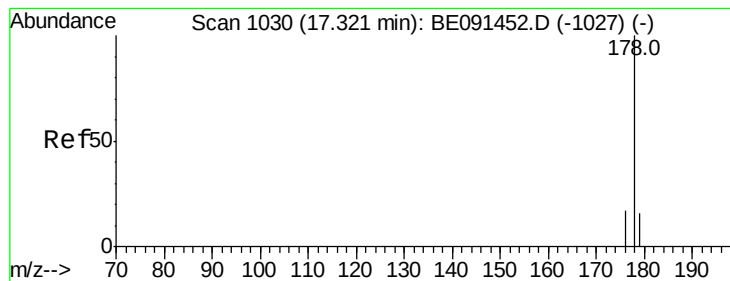


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#17

Anthracene

Concen: 3.29 ng

RT: 17.31 min Scan# 1030

Delta R.T. -0.01 min

Lab File: BE091466.D

Acq: 17 Mar 2016 14:49

Instrument :

BNA_E

ClientSampleId :

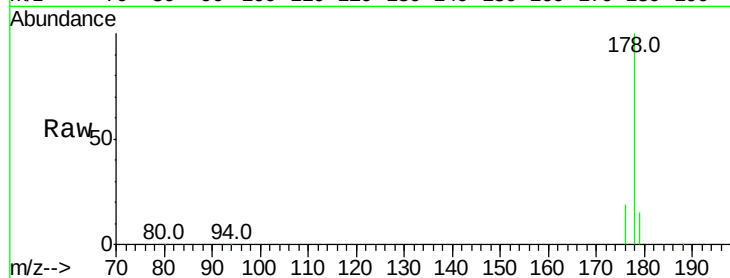
Tot Ion:178 Resp: 422620

Ion Ratio Lower Upper

178 100

176 18.9 0.0 0.0#

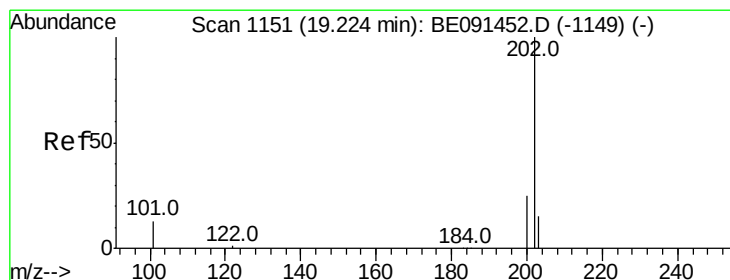
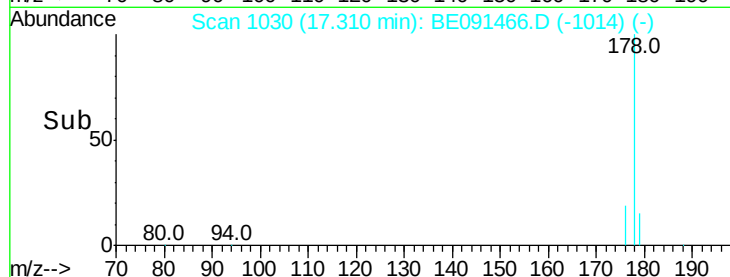
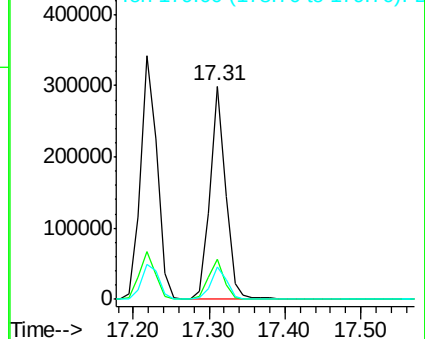
179 15.7 0.0 0.0#



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#18

Fluoranthene

Concen: 4.22 ng

RT: 19.23 min Scan# 1152

Delta R.T. 0.00 min

Lab File: BE091466.D

Acq: 17 Mar 2016 14:49

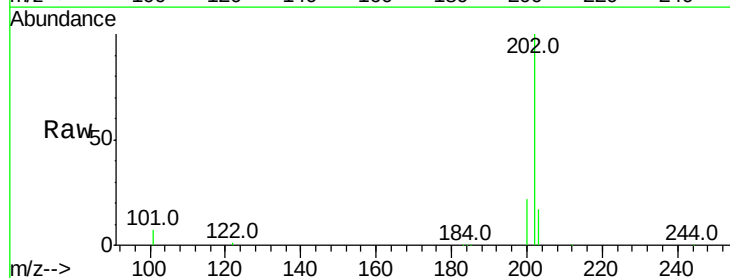
Tgt Ion:202 Resp: 693912

Ion Ratio Lower Upper

202 100

101 11.0 1.1 1.7#

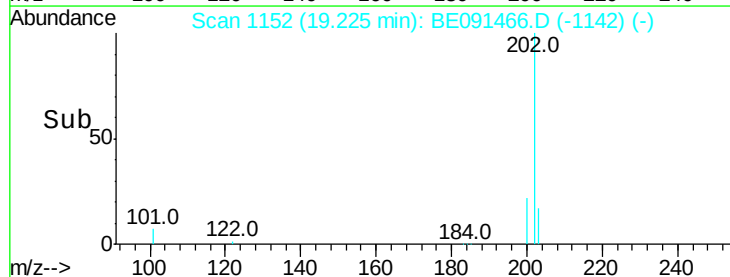
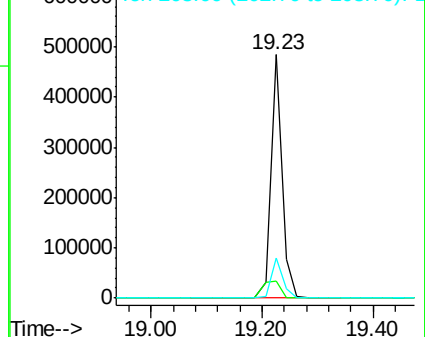
203 17.5 1.0 1.6#

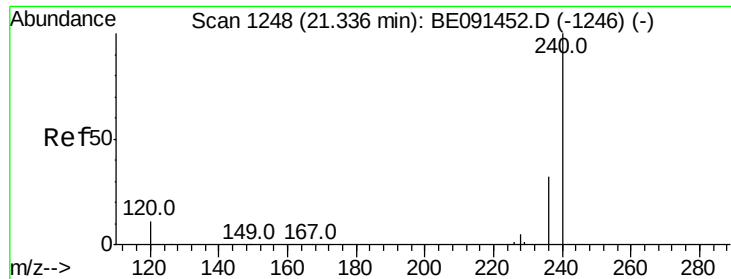


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E

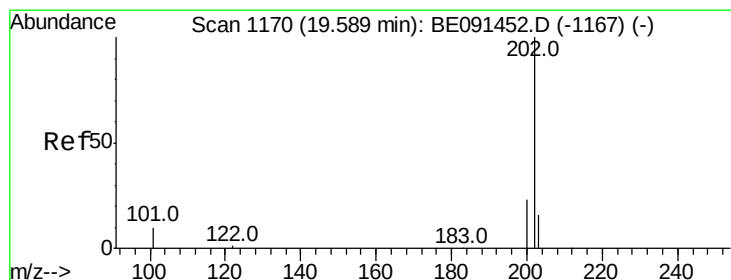
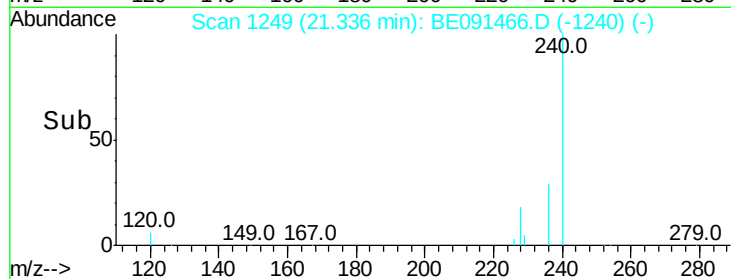
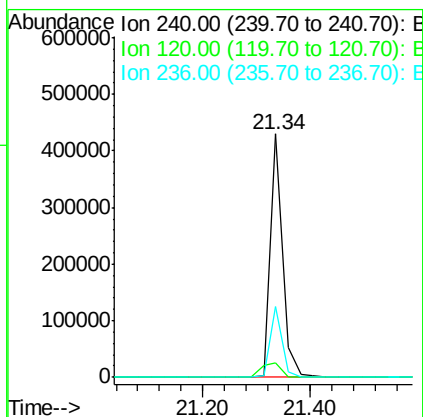
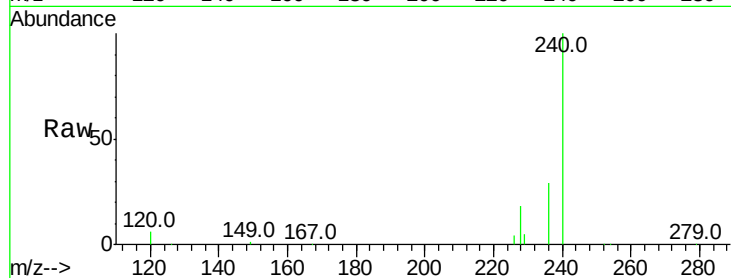




#19
Chrysene-d12
Concen: 5.00 ng
RT: 21.34 min Scan# 1249
Delta R.T. 0.00 min
Lab File: BE091466.D
Acq: 17 Mar 2016 14:49

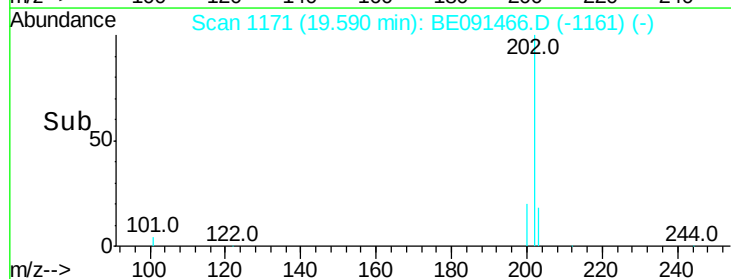
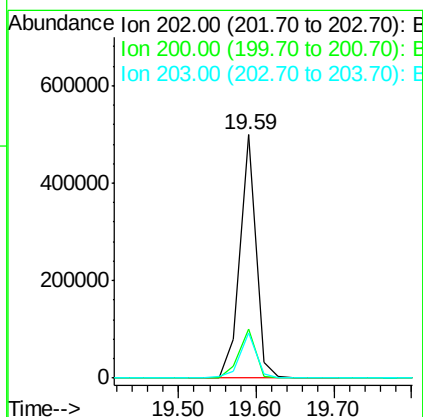
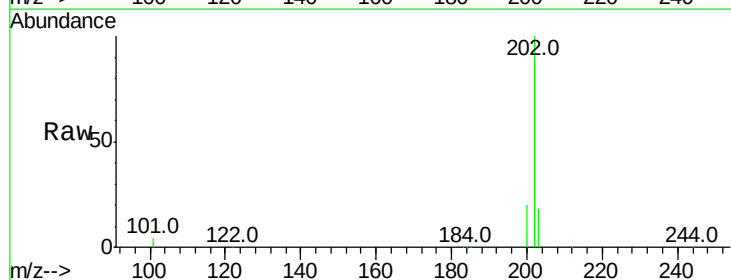
Instrument :
BNA_E
ClientSampleId :

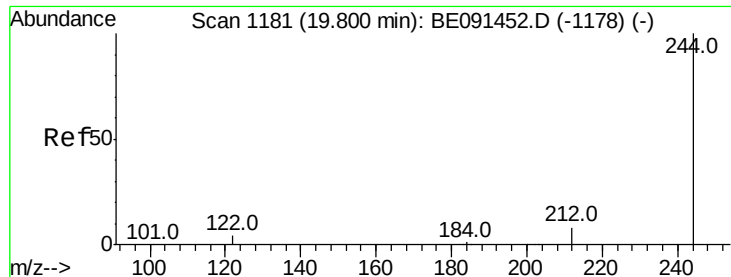
Tot Ion:240 Resp: 683251
Ion Ratio Lower Upper
240 100
120 6.1 8.8 13.2#
236 29.3 25.7 38.5



#20
Pyrene
Concen: 3.65 ng
RT: 19.59 min Scan# 1171
Delta R.T. 0.00 min
Lab File: BE091466.D
Acq: 17 Mar 2016 14:49

Tgt Ion:202 Resp: 712092
Ion Ratio Lower Upper
202 100
200 21.1 0.0 0.0#
203 19.2 0.1 0.1#





#21

Terphenyl-d14

Concen: 3.85 ng

RT: 19.80 min Scan# 1182

Delta R.T. 0.00 min

Lab File: BE091466.D

Acq: 17 Mar 2016 14:49

Instrument :

BNA_E

ClientSampleId :

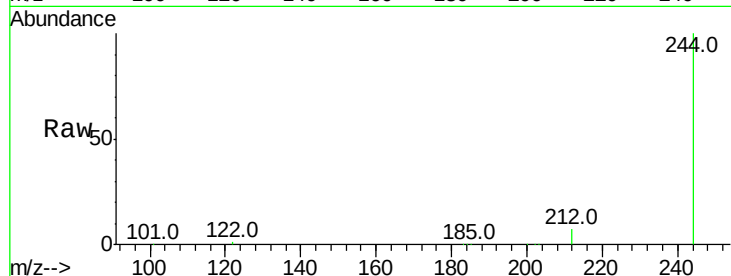
Tot Ion:244 Resp: 390228

Ion Ratio Lower Upper

244 100

212 7.1 6.6 10.0

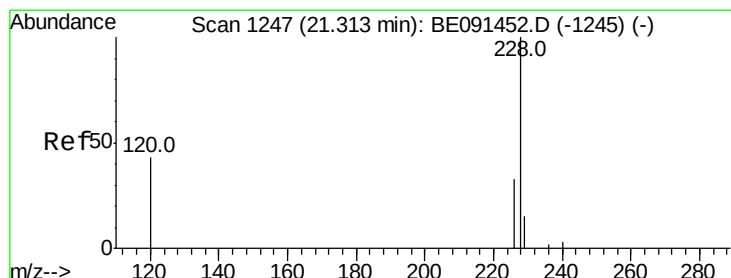
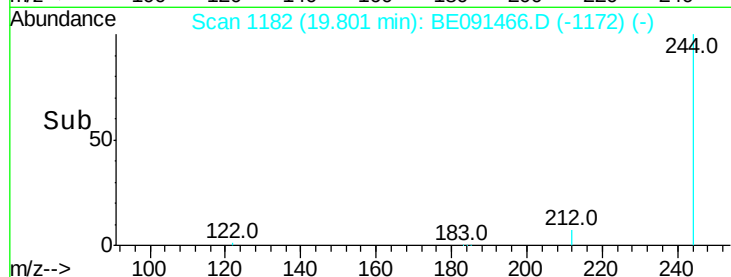
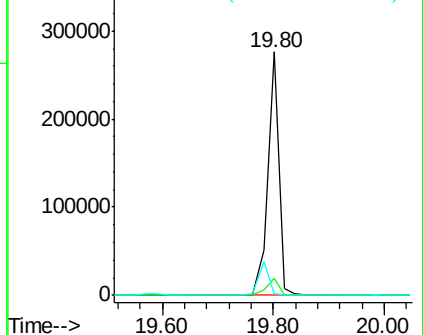
122 0.9 3.4 5.0#



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: 5.15 ng

RT: 21.31 min Scan# 1248

Delta R.T. 0.00 min

Lab File: BE091466.D

Acq: 17 Mar 2016 14:49

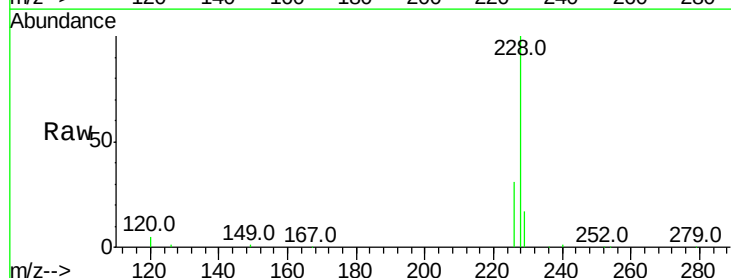
Tgt Ion:228 Resp: 1233006

Ion Ratio Lower Upper

228 100

226 30.8 27.1 40.7

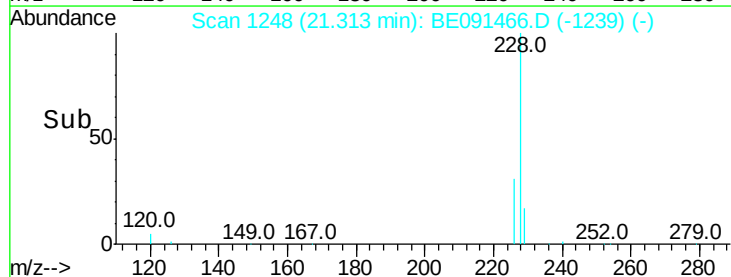
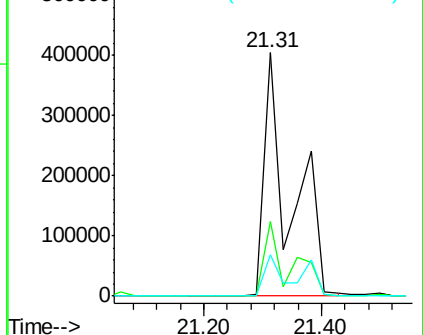
229 17.2 12.3 18.5

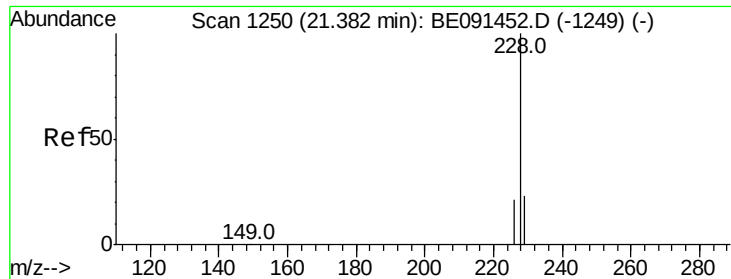


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#23

Chrysene

Concen: 8.07 ng

RT: 21.31 min Scan# 1248

Delta R.T. -0.07 min

Lab File: BE091466.D

Acq: 17 Mar 2016 14:49

Instrument :

BNA_E

ClientSampled :

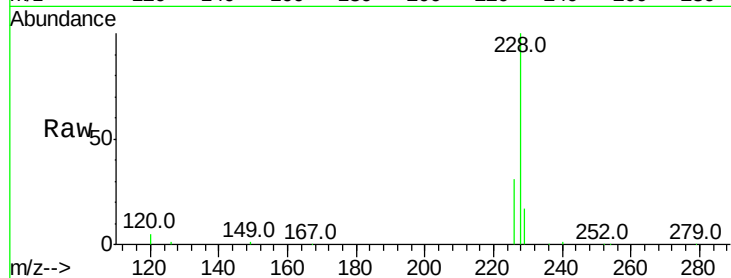
Tot Ion:228 Resp: 1239159

Ion Ratio Lower Upper

228 100

226 30.8 20.3 30.5#

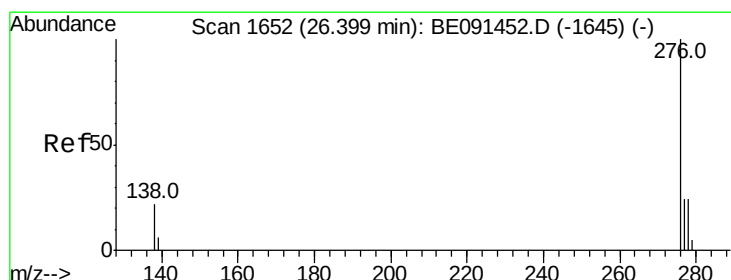
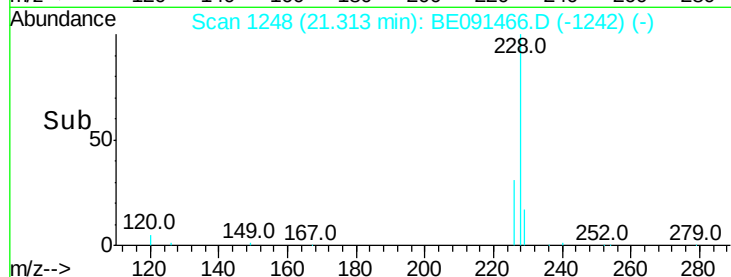
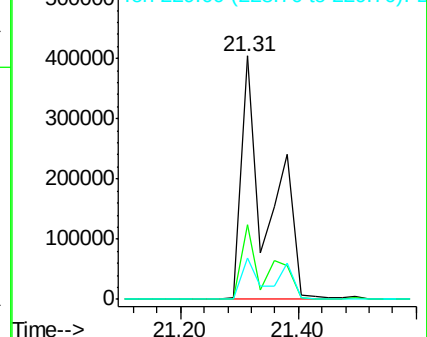
229 17.2 17.4 26.0#



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



#24

Indeno(1,2,3-cd)pyrene

Concen: 2.97 ng

RT: 26.40 min Scan# 1653

Delta R.T. -0.00 min

Lab File: BE091466.D

Acq: 17 Mar 2016 14:49

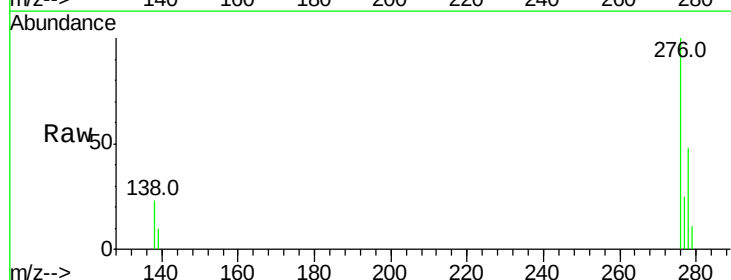
Tgt Ion:276 Resp: 678653

Ion Ratio Lower Upper

276 100

138 25.1 0.0 0.0#

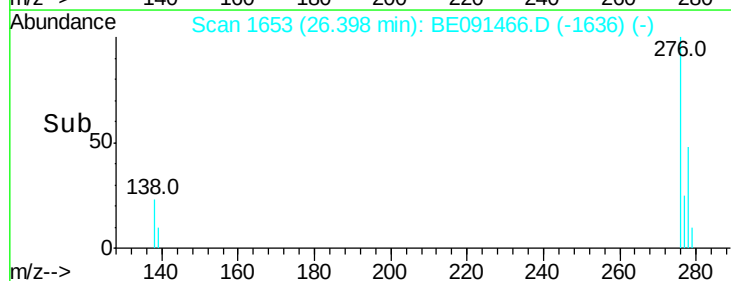
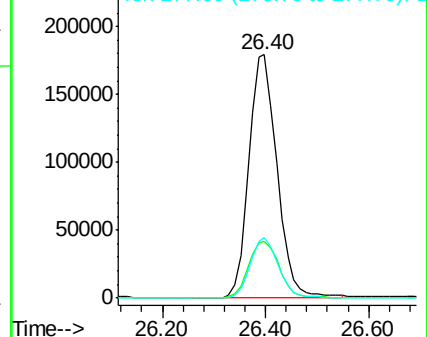
277 24.7 0.0 0.0#

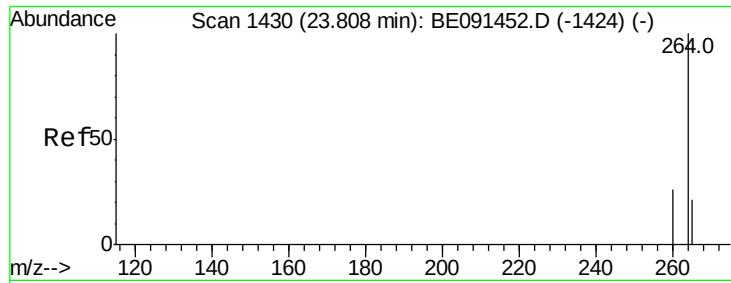


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

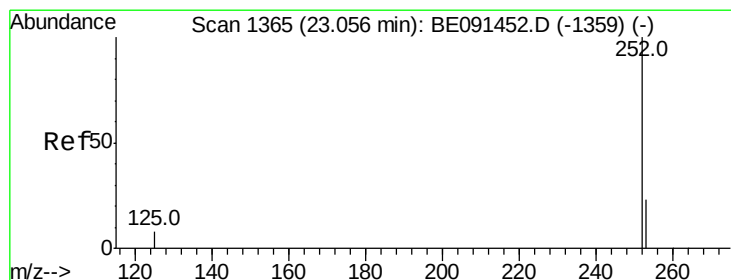
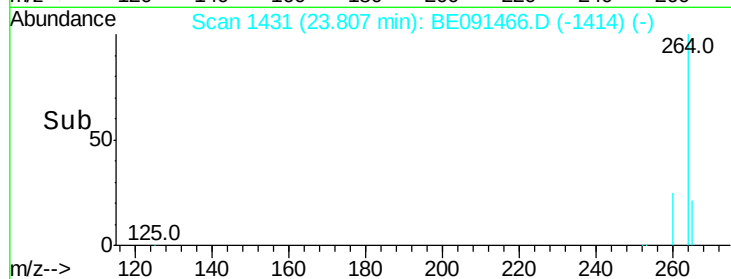
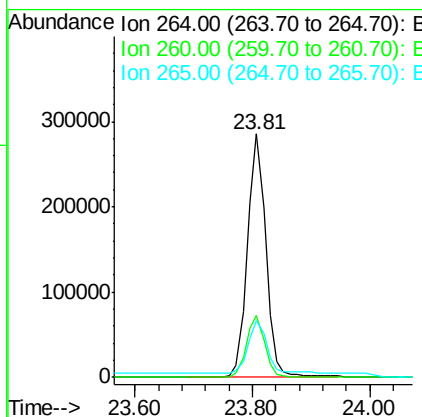
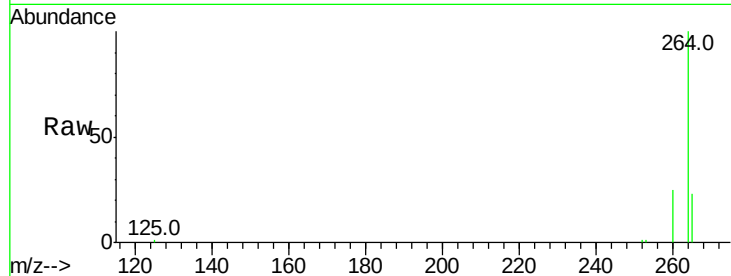




#25
Pervlene-d12
Concen: 5.00 ng
RT: 23.81 min Scan# 1431
Delta R.T. -0.00 min
Lab File: BE091466.D
Acq: 17 Mar 2016 14:49

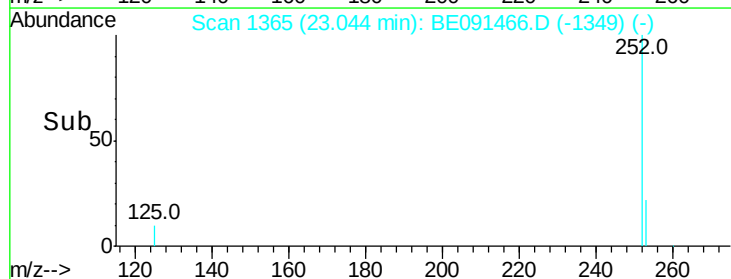
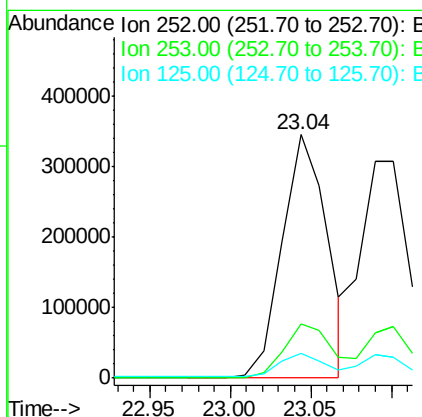
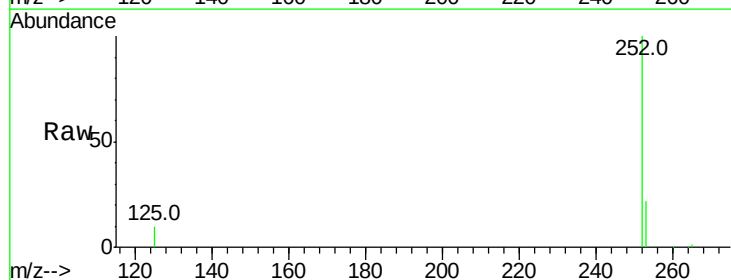
Instrument :
BNA_E
ClientSampleId :

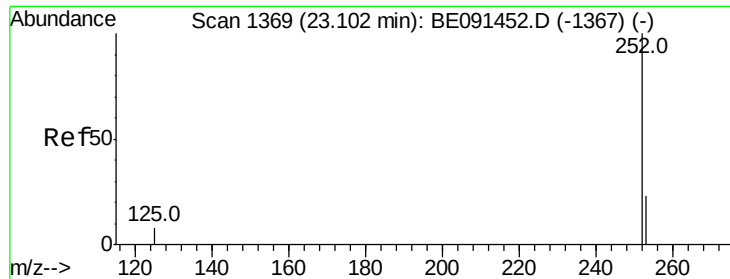
Tot Ion:264 Resp: 621399
Ion Ratio Lower Upper
264 100
260 25.2 20.7 31.1
265 23.1 19.4 29.2



#26
Benzo(b)fluoranthene
Concen: 3.16 ng
RT: 23.04 min Scan# 1365
Delta R.T. -0.01 min
Lab File: BE091466.D
Acq: 17 Mar 2016 14:49

Tgt Ion:252 Resp: 668837
Ion Ratio Lower Upper
252 100
253 22.0 20.6 30.8
125 10.1 10.2 15.4#

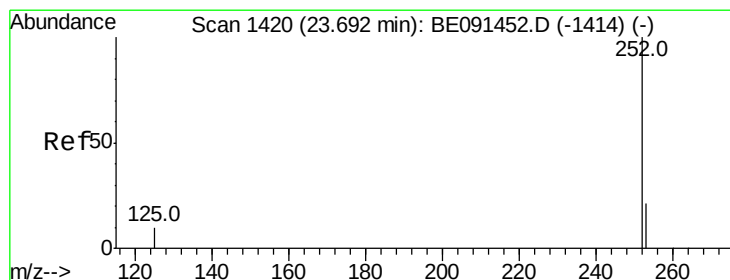
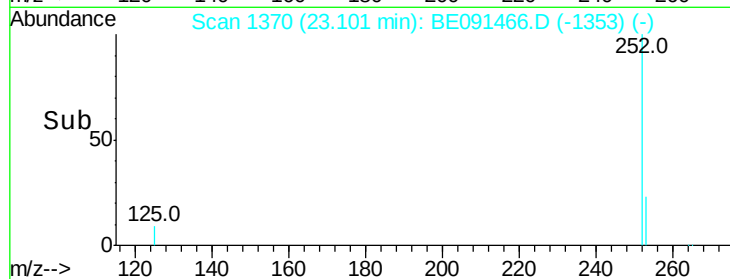
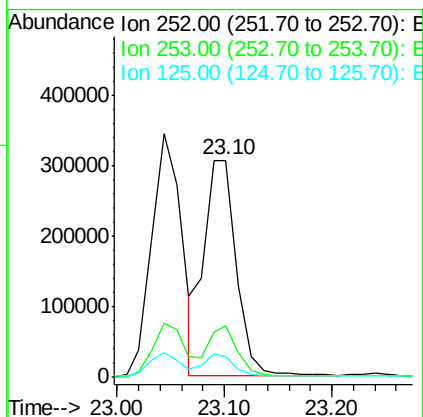
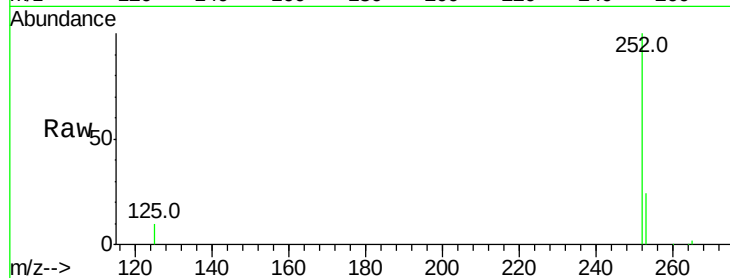




#27
Benzo(k)fluoranthene
Concen: 3.25 ng
RT: 23.10 min Scan# 1370
Delta R.T. -0.00 min
Lab File: BE091466.D
Acq: 17 Mar 2016 14:49

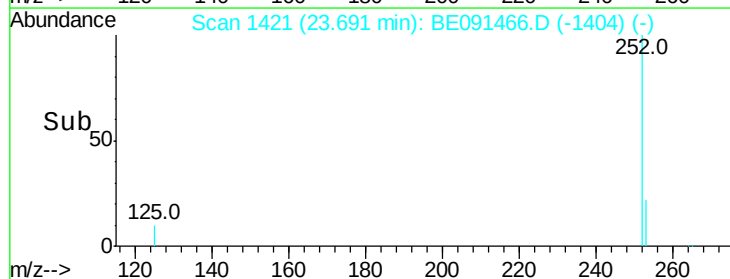
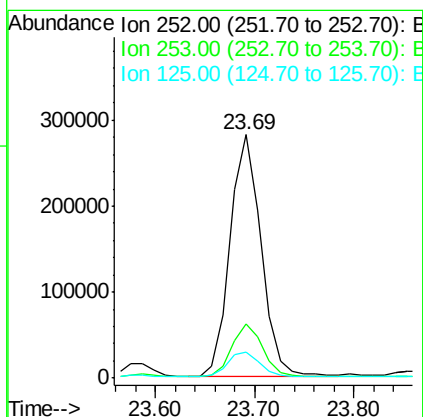
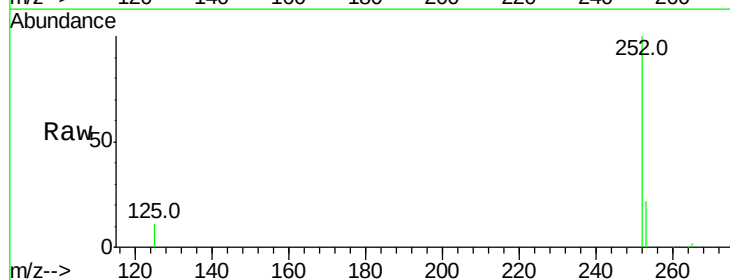
Instrument :
BNA_E
ClientSampleId :

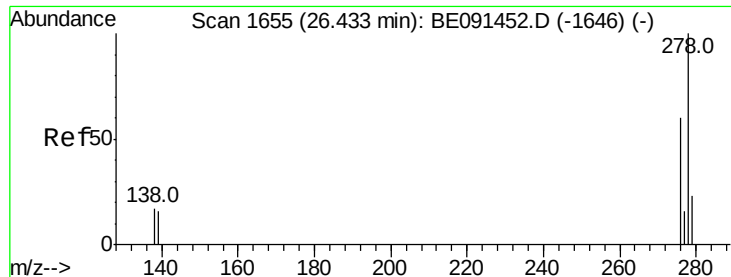
Tot Ion:252 Resp: 638730
Ion Ratio Lower Upper
252 100
253 23.6 20.2 30.2
125 9.6 10.6 16.0#



#28
Benzo(a)pyrene
Concen: 3.42 ng
RT: 23.69 min Scan# 1421
Delta R.T. -0.00 min
Lab File: BE091466.D
Acq: 17 Mar 2016 14:49

Tgt Ion:252 Resp: 615581
Ion Ratio Lower Upper
252 100
253 22.3 20.0 30.0
125 10.8 12.7 19.1#





#29

Dibenzo(a,h)anthracene

Concen: 3.14 ng

RT: 26.42 min Scan# 1655

Delta R.T. -0.01 min

Lab File: BE091466.D

Acq: 17 Mar 2016 14:49

Instrument :

BNA_E

ClientSampleId :

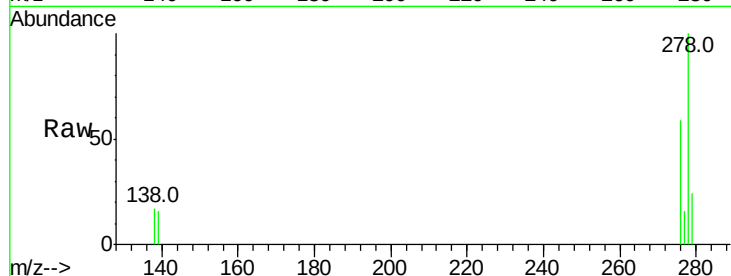
Tot Ion:278 Resp: 548976

Ion Ratio Lower Upper

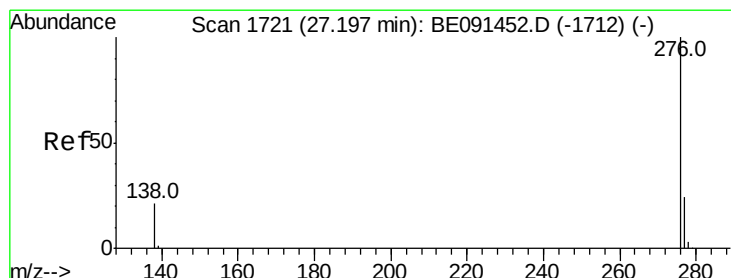
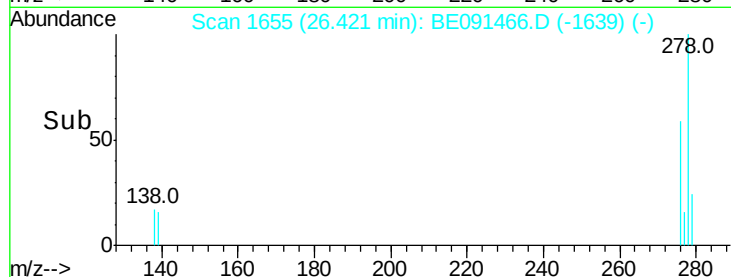
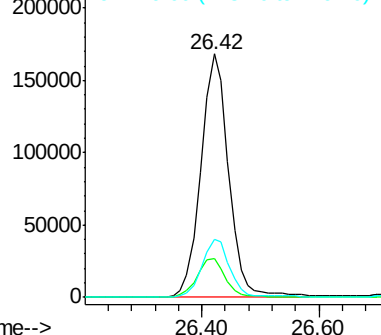
278 100

139 15.9 13.3 19.9

279 23.9 20.9 31.3



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: 3.18 ng

RT: 27.18 min Scan# 1721

Delta R.T. -0.01 min

Lab File: BE091466.D

Acq: 17 Mar 2016 14:49

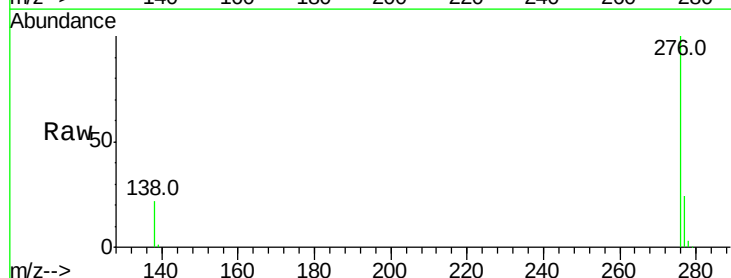
Tgt Ion:276 Resp: 580321

Ion Ratio Lower Upper

276 100

277 23.8 19.8 29.8

138 22.1 17.6 26.4



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

