

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE030316\
 Data File : BE091449.D
 Acq On : 4 Mar 2016 7:25
 Operator : UM/IZ
 Sample : MDL-07-S
 Misc : 0.16PPM
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 DFTPP

Quant Time: Mar 04 08:17:22 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

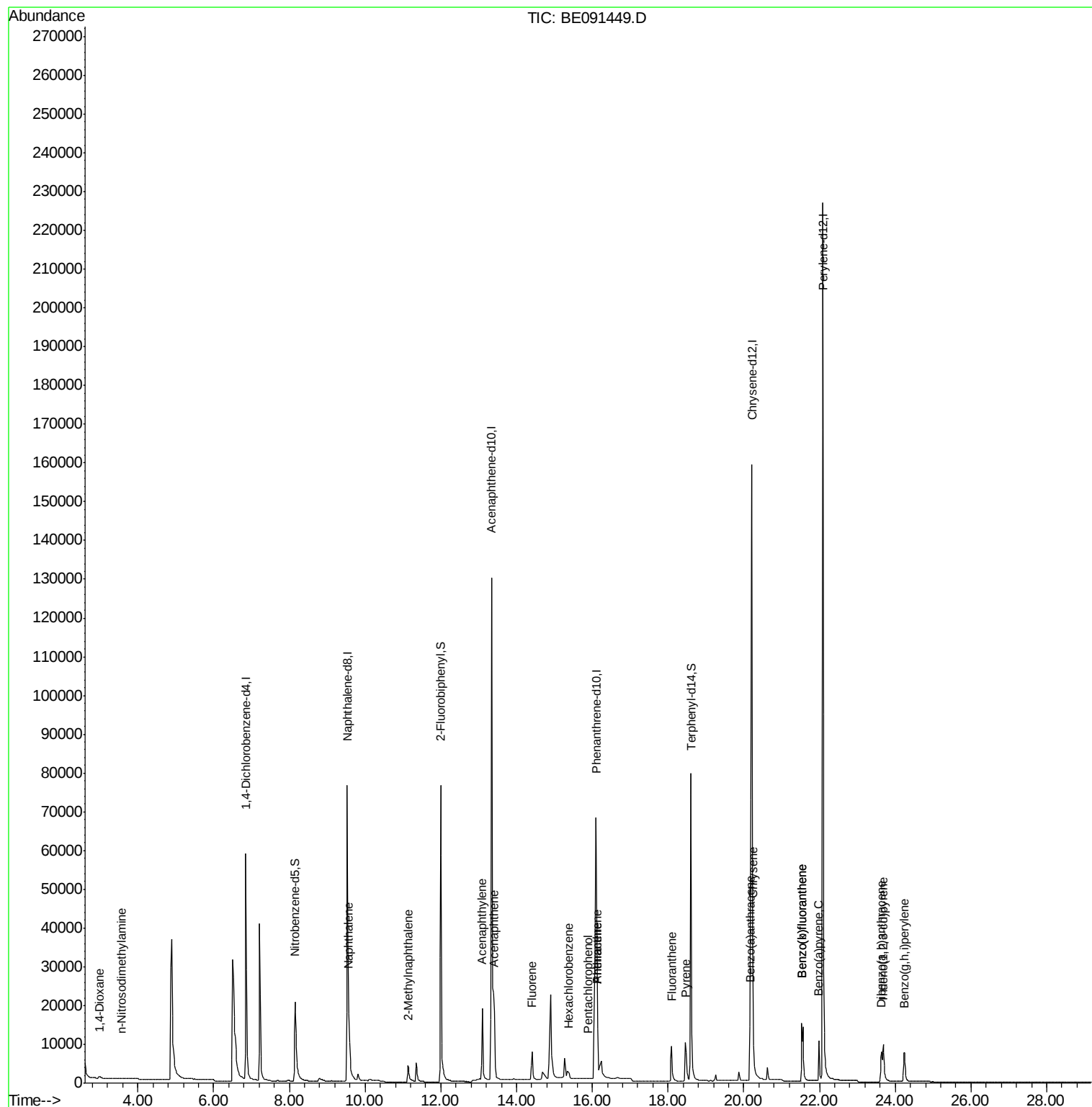
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.85	152	33794	5.00	ng	-0.02
4) Naphthalene-d8	9.53	136	147847	5.00	ng	0.00
8) Acenaphthene-d10	13.34	164	92045	5.00	ng	0.00
13) Phenanthrene-d10	16.10	188	154845	5.00	ng	0.00
19) Chrysene-d12	20.21	240	244435	5.00	ng	0.00
25) Perylene-d12	22.09	264	276158	5.00	ng	0.00
System Monitoring Compounds						
5) Nitrobenzene-d5	8.15	82	35553	3.89	ng	-0.03
9) 2-Fluorobiphenyl	11.99	172	100178	4.48	ng	-0.01
21) Terphenyl-d14	18.61	244	163747	4.40	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.98	88	828	0.28	ng	85
3) n-Nitrosodimethylamine	3.57	42	528	0.24	ng	# 95
6) Naphthalene	9.57	128	9462	0.27	ng	99
7) 2-Methylnaphthalene	11.14	142	5222	0.26	ng	92
10) Acenaphthylene	13.09	152	32765	0.21	ng	100
11) Acenaphthene	13.41	154	6470	0.23	ng	# 100
12) Fluorene	14.41	166	7732	0.22	ng	97
14) Hexachlorobenzene	15.38	284	2250	0.25	ng	# 100
15) Pentachlorophenol	15.89	266	231	0.48	ng	97
16) Phenanthrene	16.13	178	14541	0.27	ng	99
17) Anthracene	16.13	178	14249	0.30	ng	# 81
18) Fluoranthene	18.09	202	14677	0.26	ng	99
20) Pyrene	18.46	202	15685	0.23	ng	99
22) Benzo(a)anthracene	20.17	228	17473	0.21	ng	98
23) Chrysene	20.23	228	22419	0.25	ng	98
24) Indeno(1,2,3-cd)pyrene	23.69	276	17909	0.24	ng	# 90
26) Benzo(b)fluoranthene	21.53	252	34444	0.45	ng	99
27) Benzo(k)fluoranthene	21.53	252	34741	0.47	ng	93
28) Benzo(a)pyrene	21.99	252	14532	0.22	ng	98
29) Dibenzo(a,h)anthracene	23.64	278	13739	0.22	ng	# 96
30) Benzo(g,h,i)perylene	24.24	276	16154	0.23	ng	98

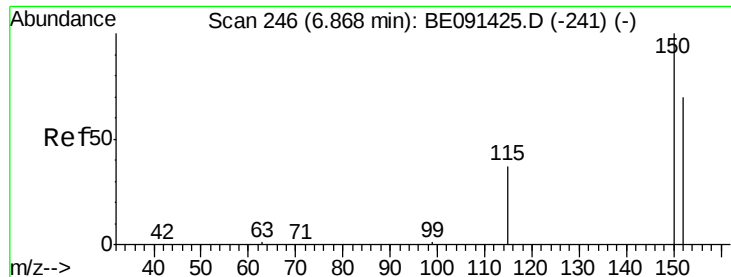
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 6.85 min Scan# 245

Delta R.T. -0.02 min

Lab File: BE091449.D

Acq: 4 Mar 2016 7:25

Instrument :

BNA_E

ClientSampleId :

DFTPP

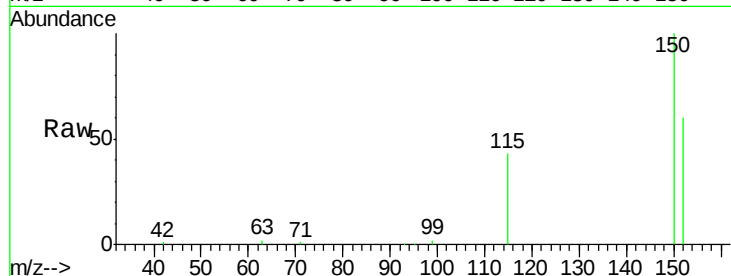
Tgt Ion:152 Resp: 33794

Ion Ratio Lower Upper

152 100

150 167.6 115.0 172.4

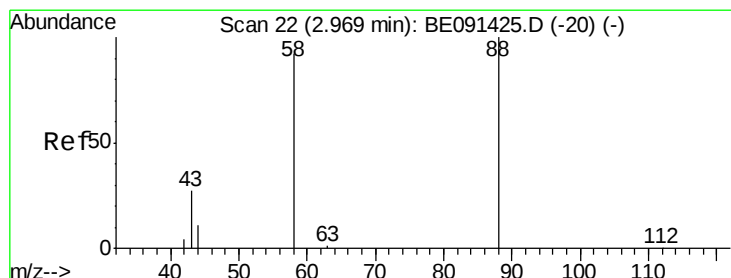
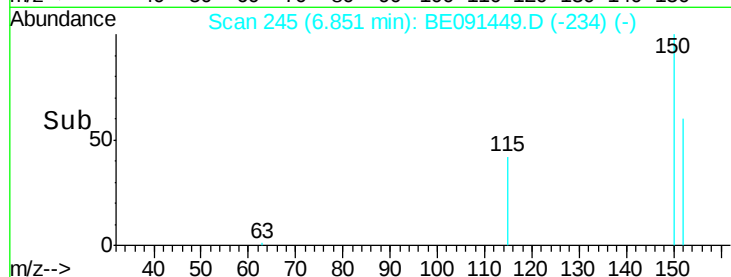
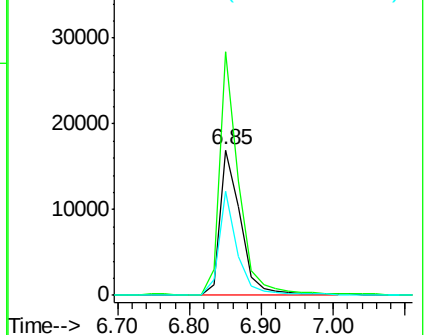
115 71.4 42.2 63.4#



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: 0.28 ng

RT: 2.98 min Scan# 23

Delta R.T. 0.02 min

Lab File: BE091449.D

Acq: 4 Mar 2016 7:25

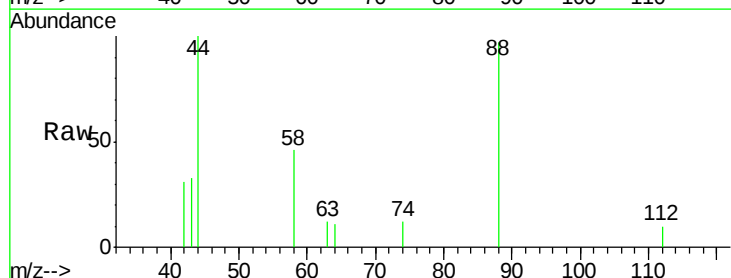
Tgt Ion: 88 Resp: 828

Ion Ratio Lower Upper

88 100

58 101.2 97.9 146.9

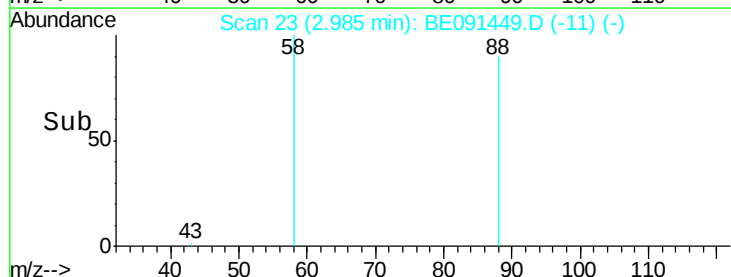
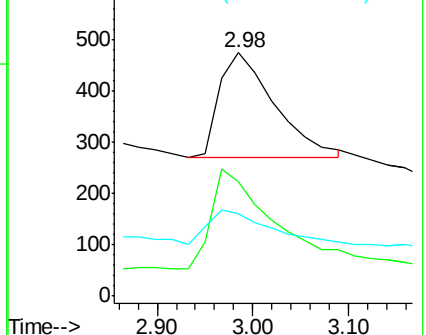
43 34.5 29.0 43.4

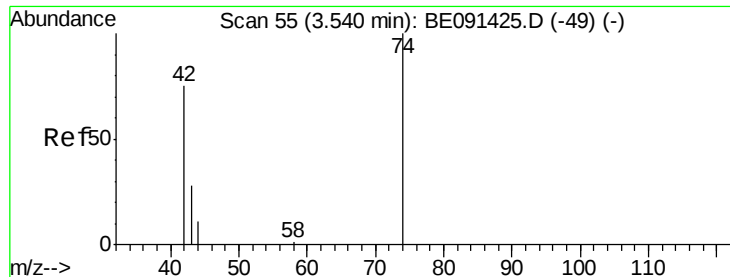


Abundance Ion 88.00 (87.70 to 88.70): BE0

Ion 58.00 (57.70 to 58.70): BE0

Ion 43.00 (42.70 to 43.70): BE0





#3

n-Nitrosodimethylamine

Concen: 0.24 ng

RT: 3.57 min Scan# 57

Delta R.T. 0.03 min

Lab File: BE091449.D

Acq: 4 Mar 2016 7:25

Instrument :

BNA_E

ClientSampleId :

DFTPP

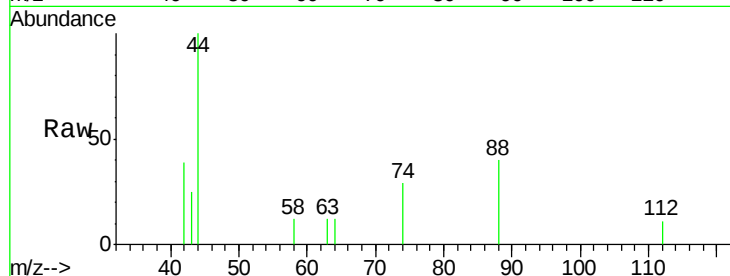
Tgt Ion: 42 Resp: 528

Ion Ratio Lower Upper

42 100

74 122.5 93.8 140.6

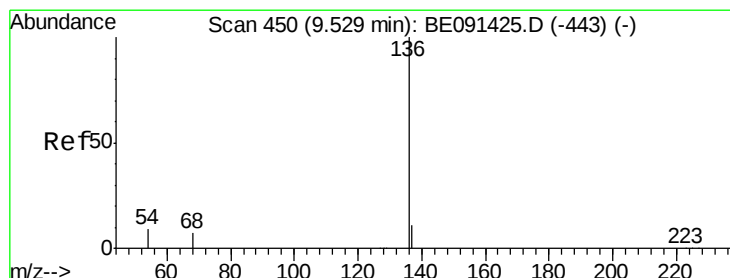
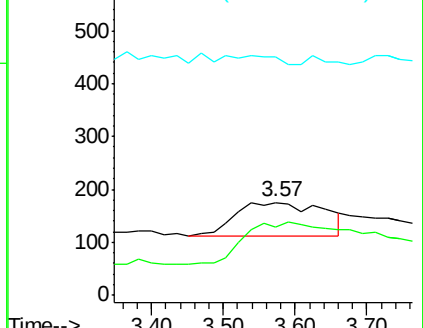
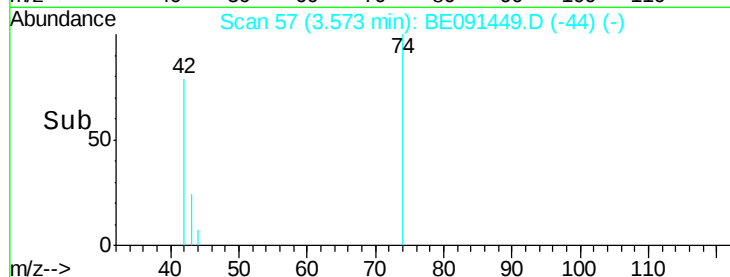
44 0.0 0.0 0.0



Abundance Ion 42.00 (41.70 to 42.70): BE0

Ion 74.00 (73.70 to 74.70): BE0

Ion 44.00 (43.70 to 44.70): BE0



#4

Naphthalene-d8

Concen: 5.00 ng

RT: 9.53 min Scan# 450

Delta R.T. 0.00 min

Lab File: BE091449.D

Acq: 4 Mar 2016 7:25

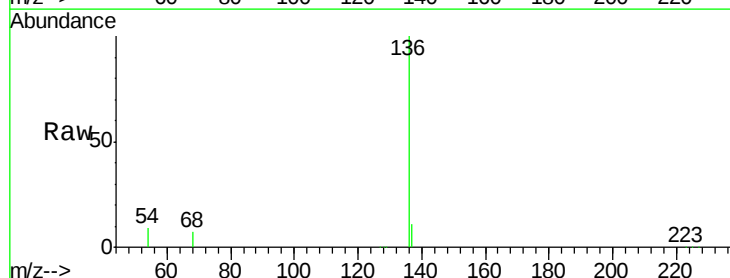
Tgt Ion: 136 Resp: 147847

Ion Ratio Lower Upper

136 100

137 10.8 8.7 13.1

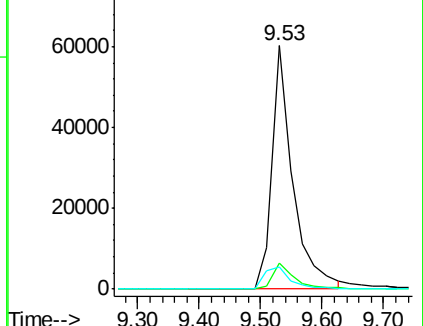
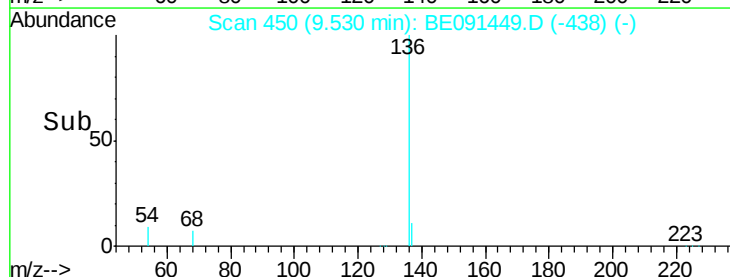
54 9.3 6.9 10.3

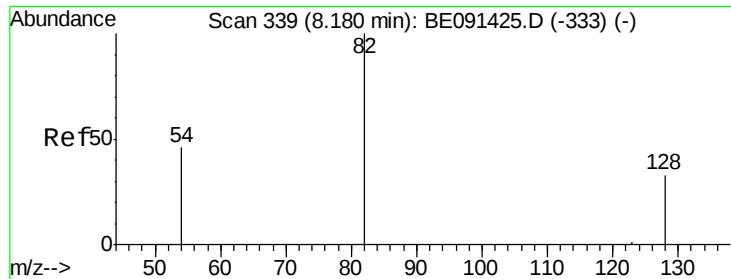


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BE0





#5

Nitrobenzene-d5

Concen: 3.89 ng

RT: 8.15 min Scan# 336

Delta R.T. -0.03 min

Lab File: BE091449.D

Acq: 4 Mar 2016 7:25

Instrument :

BNA_E

ClientSampleId :

DFTPP

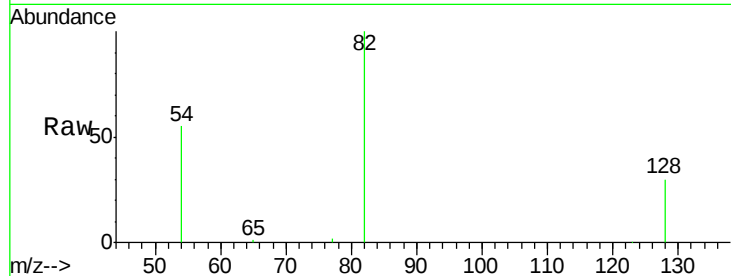
Tgt Ion: 82 Resp: 35553

Ion Ratio Lower Upper

82 100

128 29.8 30.0 45.0#

54 55.2 41.5 62.3



Abundance Ion 82.00 (81.70 to 82.70): BE091449.D (-336) (-)

Ion 128.00 (127.70 to 128.70): BE091449.D (-336) (-)

Ion 54.00 (53.70 to 54.70): BE091449.D (-336) (-)

8.15

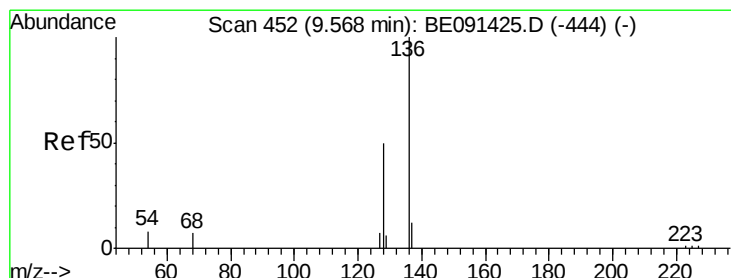
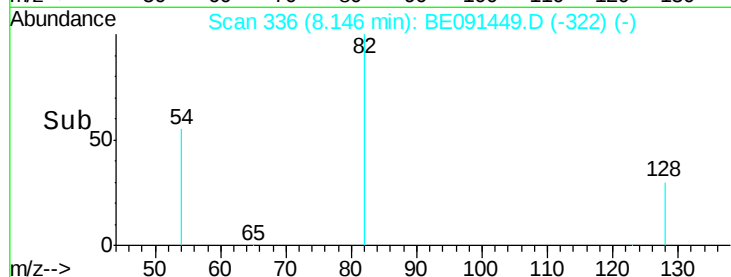
10000

5000

0

Time-->

8.00 8.10 8.20 8.30 8.40



#6

Naphthalene

Concen: 0.27 ng

RT: 9.57 min Scan# 452

Delta R.T. 0.00 min

Lab File: BE091449.D

Acq: 4 Mar 2016 7:25

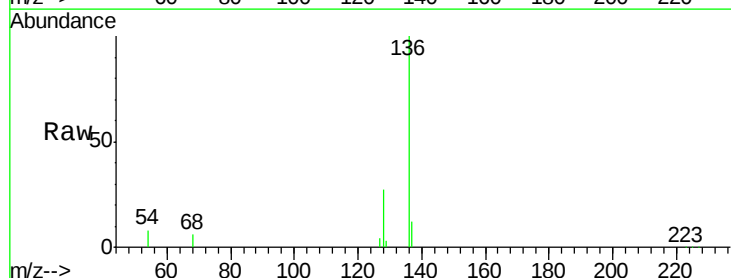
Tgt Ion: 128 Resp: 9462

Ion Ratio Lower Upper

128 100

129 11.7 9.5 14.3

127 15.1 11.4 17.0



Abundance Ion 128.00 (127.70 to 128.70): BE091449.D (-442) (-)

Ion 129.00 (128.70 to 129.70): BE091449.D (-442) (-)

Ion 127.00 (126.70 to 127.70): BE091449.D (-442) (-)

9.57

4000

3000

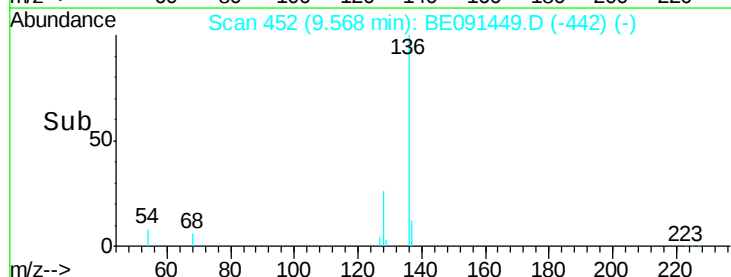
2000

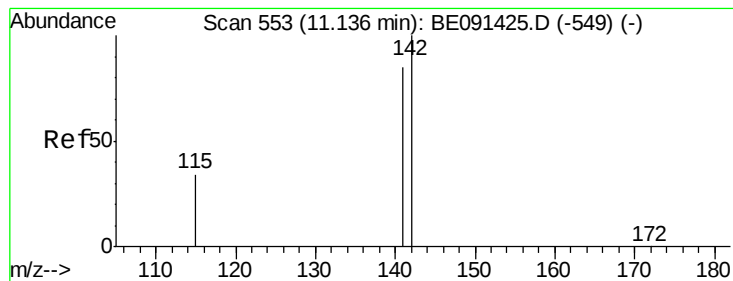
1000

0

Time-->

9.40 9.60





#7

2-Methylnaphthalene

Concen: 0.26 ng

RT: 11.14 min Scan# 553

Delta R.T. 0.00 min

Lab File: BE091449.D

Acq: 4 Mar 2016 7:25

Instrument :

BNA_E

ClientSampleId :

DFTPP

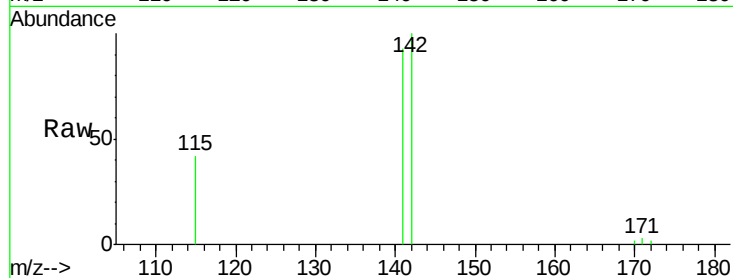
Tgt Ion:142 Resp: 5222

Ion Ratio Lower Upper

142 100

141 92.7 68.3 102.5

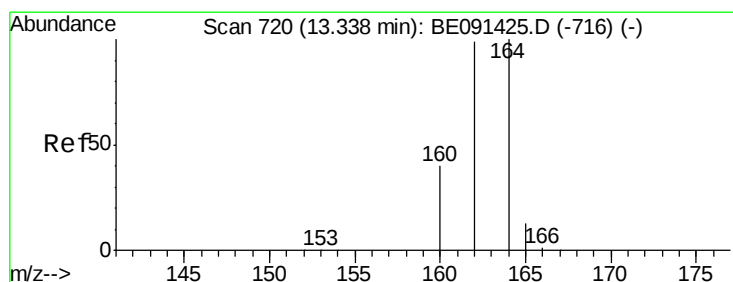
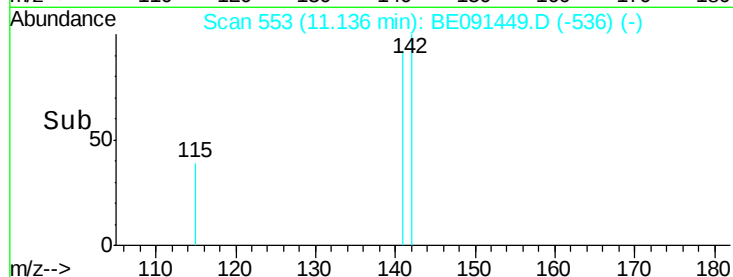
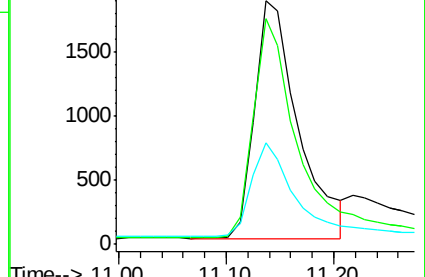
115 41.8 28.9 43.3



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: BE091449.D

Acq: 4 Mar 2016 7:25

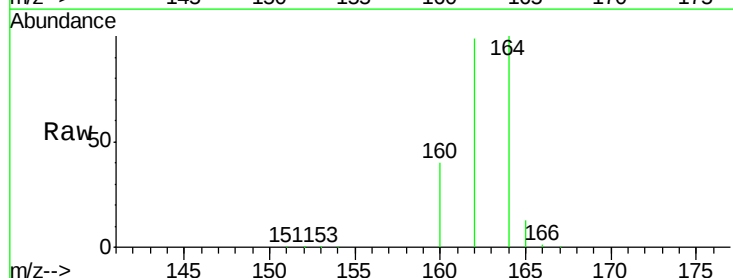
Tgt Ion:164 Resp: 92045

Ion Ratio Lower Upper

164 100

162 98.7 79.1 118.7

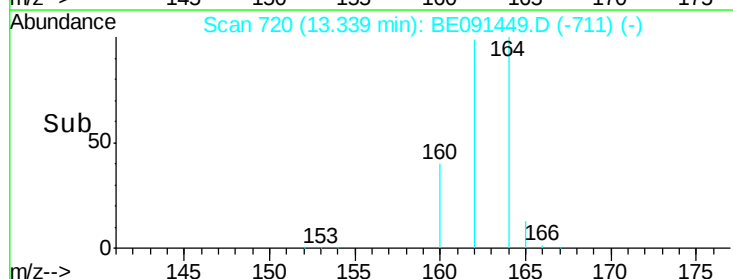
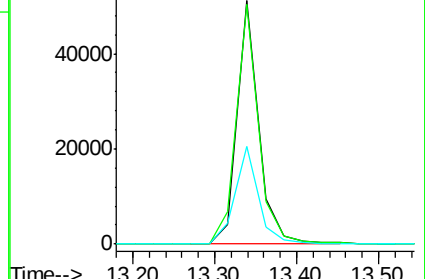
160 40.3 32.4 48.6

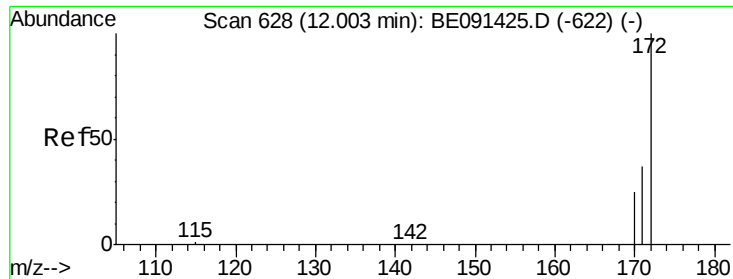


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E





#9

2-Fluorobiphenyl

Concen: 4.48 ng

RT: 11.99 min Scan# 627

Delta R.T. -0.01 min

Lab File: BE091449.D

Acq: 4 Mar 2016 7:25

Instrument :

BNA_E

ClientSampleId :

DFTPP

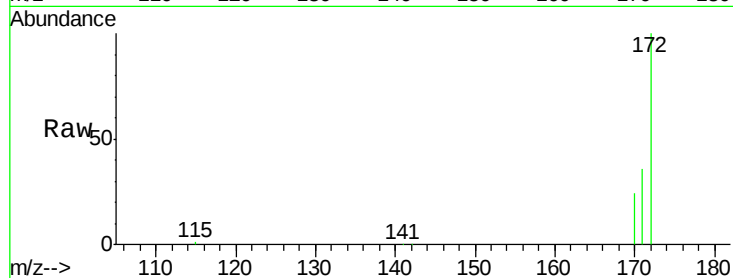
Tgt Ion:172 Resp: 100178

Ion Ratio Lower Upper

172 100

171 35.9 30.2 45.4

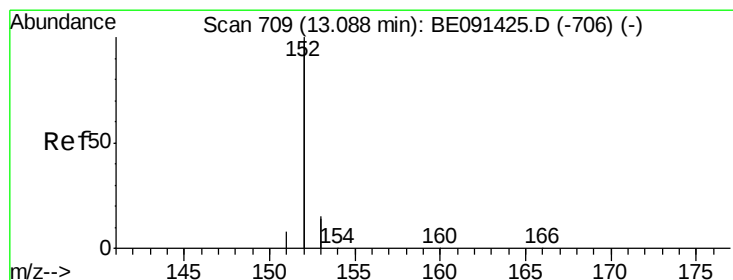
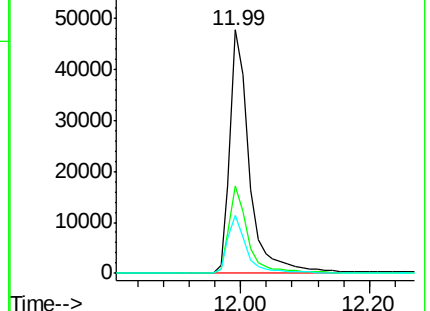
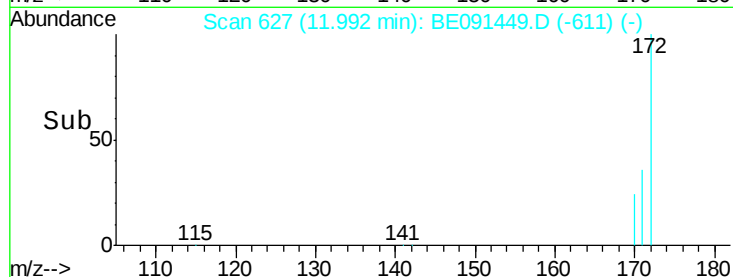
170 24.0 20.9 31.3



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: 0.21 ng

RT: 13.09 min Scan# 709

Delta R.T. 0.00 min

Lab File: BE091449.D

Acq: 4 Mar 2016 7:25

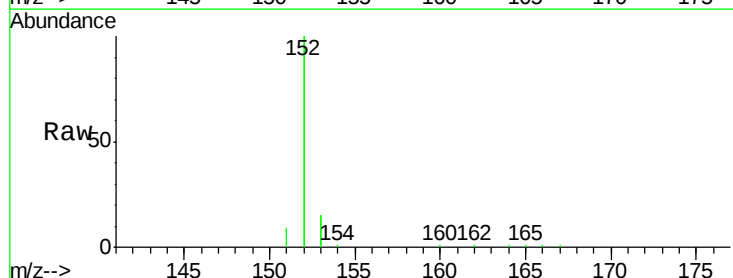
Tgt Ion:152 Resp: 32765

Ion Ratio Lower Upper

152 100

151 4.9 3.9 5.9

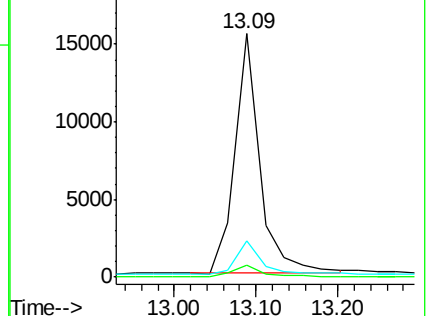
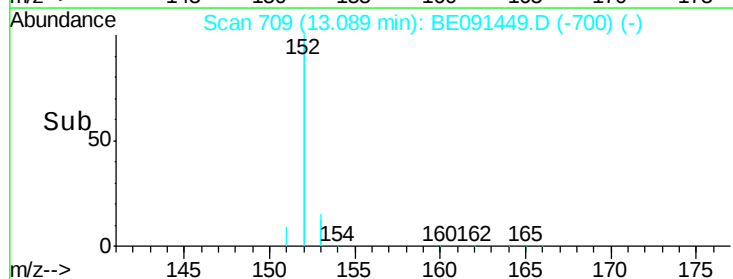
153 13.0 10.5 15.7

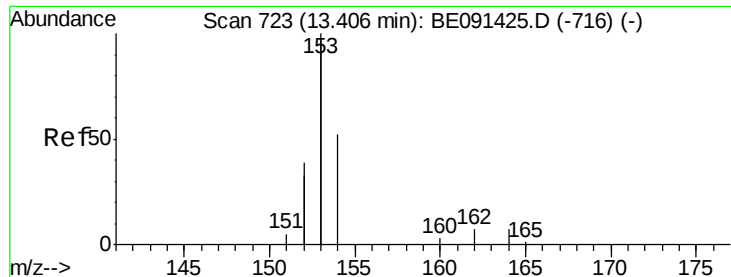


Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E





#11

Acenaphthene

Concen: 0.23 ng

RT: 13.41 min Scan# 723

Delta R.T. 0.00 min

Lab File: BE091449.D

Acq: 4 Mar 2016 7:25

Instrument :

BNA_E

ClientSampleId :

DFTPP

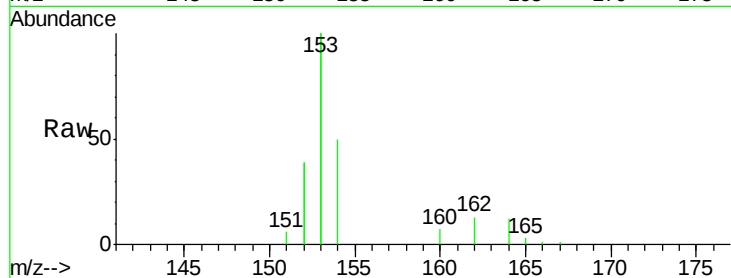
Tgt Ion:154 Resp: 6470

Ion Ratio Lower Upper

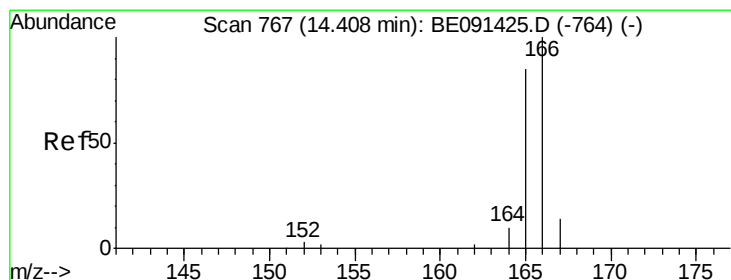
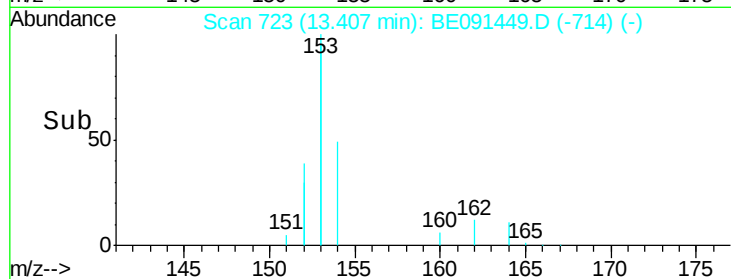
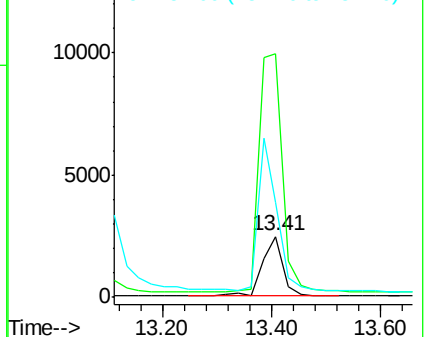
154 100

153 449.9 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: 0.22 ng

RT: 14.41 min Scan# 767

Delta R.T. 0.00 min

Lab File: BE091449.D

Acq: 4 Mar 2016 7:25

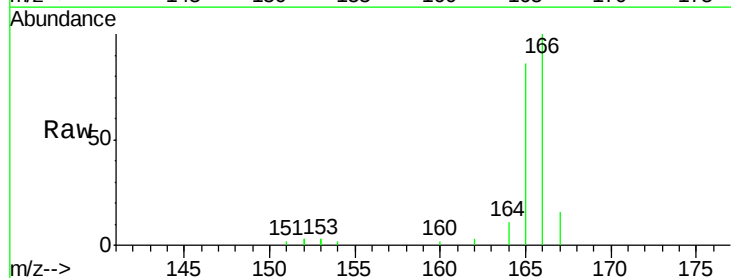
Tgt Ion:166 Resp: 7732

Ion Ratio Lower Upper

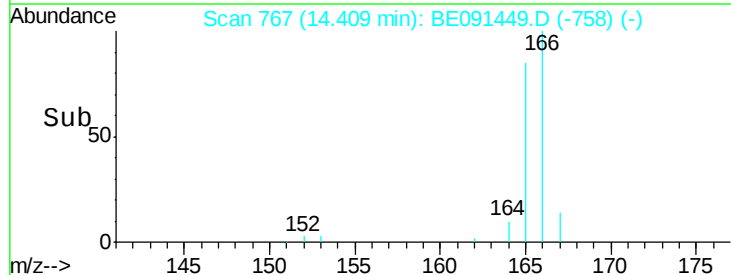
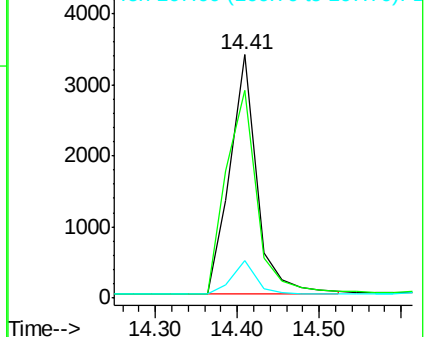
166 100

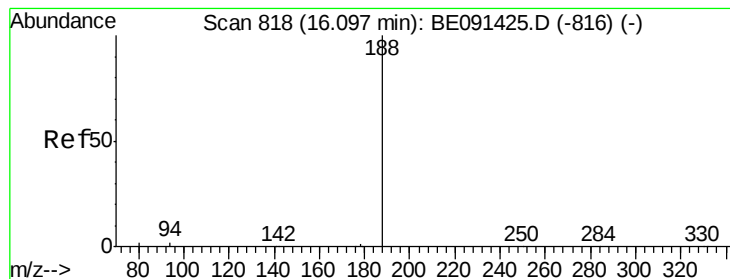
165 96.4 79.4 119.2

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: BE091449.D

Acq: 4 Mar 2016 7:25

Instrument :

BNA_E

ClientSampleId :

DFTPP

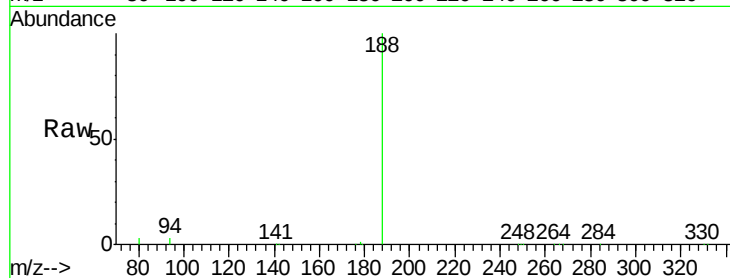
Tgt Ion:188 Resp: 154845

Ion Ratio Lower Upper

188 100

94 2.8 2.1 3.1

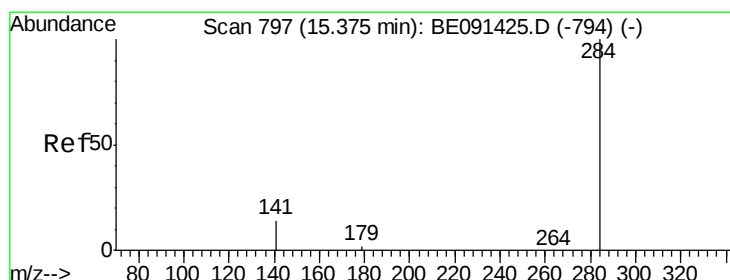
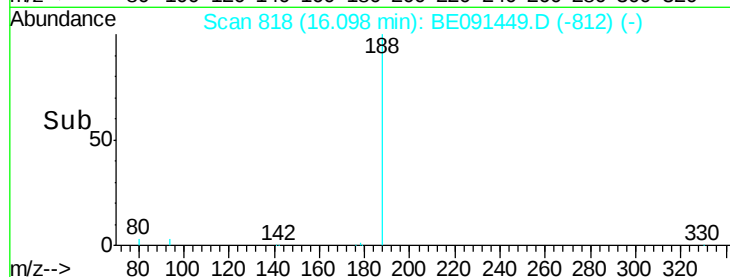
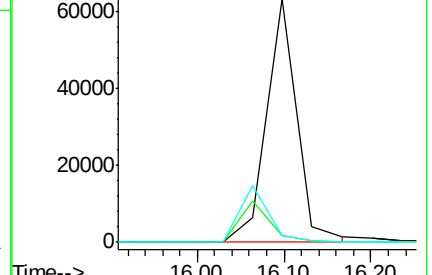
80 2.7 1.9 2.9



Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BE0

Ion 80.00 (79.70 to 80.70): BE0



#14

Hexachlorobenzene

Concen: 0.25 ng

RT: 15.38 min Scan# 797

Delta R.T. 0.00 min

Lab File: BE091449.D

Acq: 4 Mar 2016 7:25

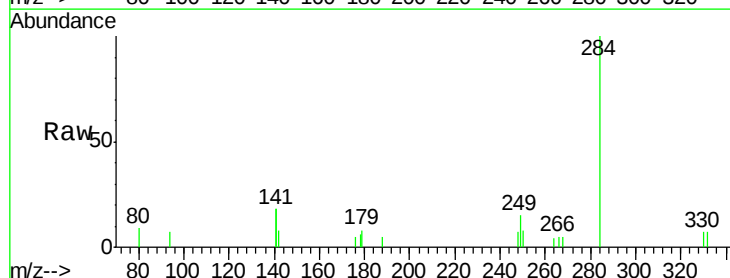
Tgt Ion:284 Resp: 2250

Ion Ratio Lower Upper

284 100

142 0.0 0.0 0.0

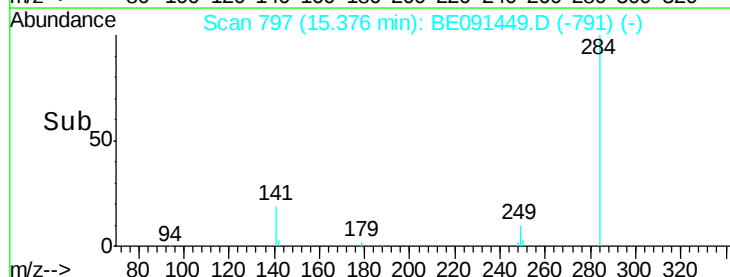
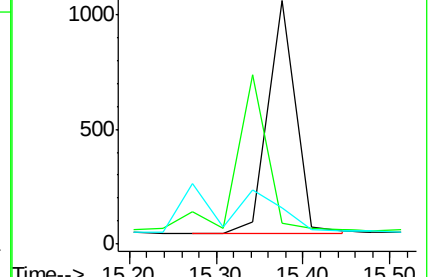
249 0.0 0.0 0.0

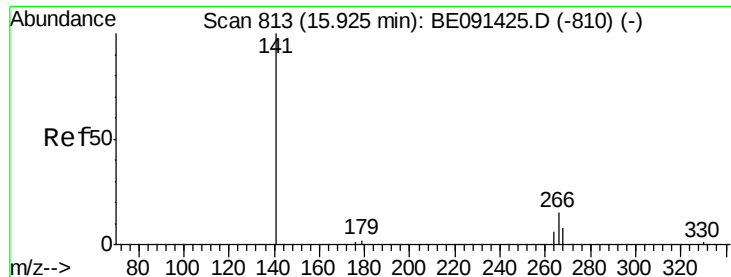


Abundance Ion 283.80 (283.50 to 284.50): E

Ion 142.00 (141.70 to 142.70): E

Ion 249.00 (248.70 to 249.70): E





#15

Pentachlorophenol

Concen: 0.48 ng

RT: 15.89 min Scan# 812

Delta R.T. -0.03 min

Lab File: BE091449.D

Acq: 4 Mar 2016 7:25

Instrument :

BNA_E

ClientSampleId :

DFTPP

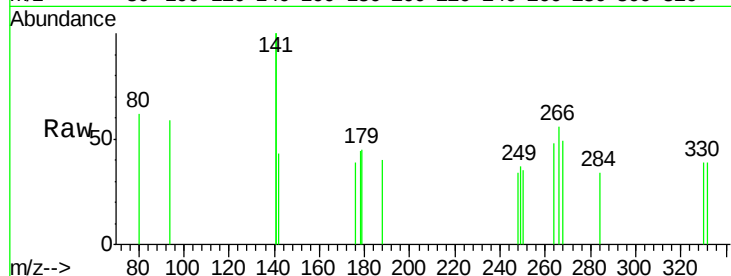
Tgt Ion:266 Resp: 231

Ion Ratio Lower Upper

266 100

268 87.7 73.0 109.6

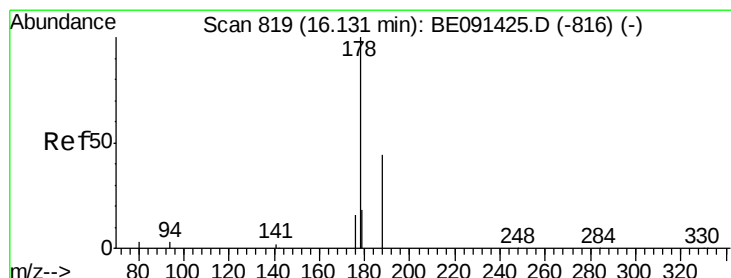
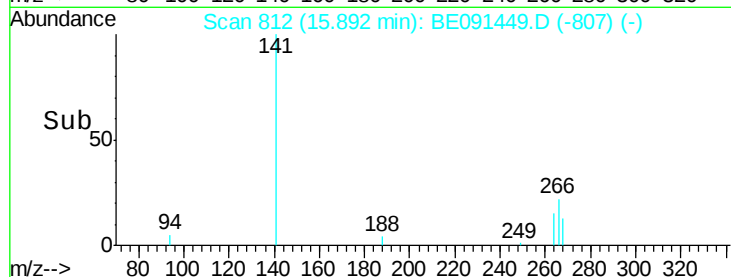
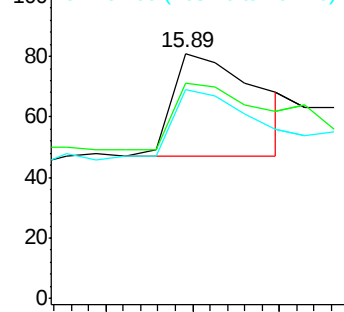
264 85.2 66.1 99.1



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: 0.27 ng

RT: 16.13 min Scan# 819

Delta R.T. 0.00 min

Lab File: BE091449.D

Acq: 4 Mar 2016 7:25

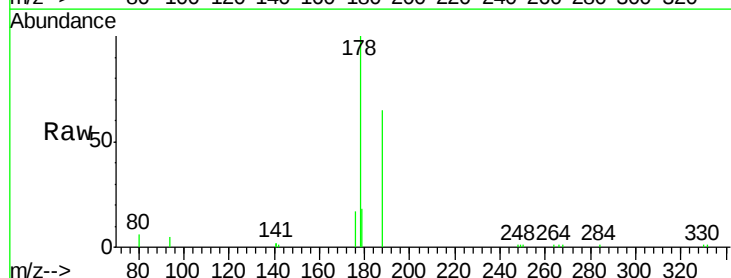
Tgt Ion:178 Resp: 14541

Ion Ratio Lower Upper

178 100

176 17.5 13.8 20.8

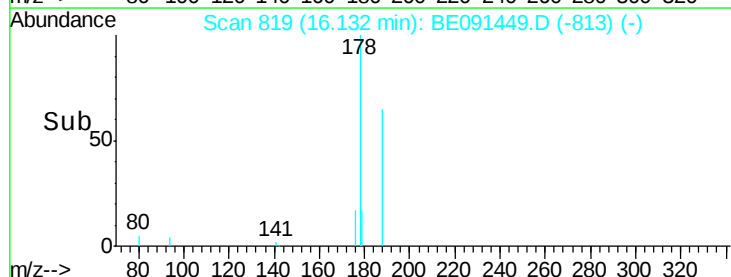
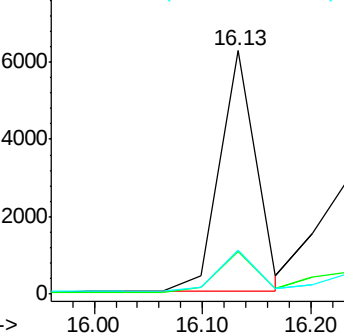
179 17.4 14.2 21.4

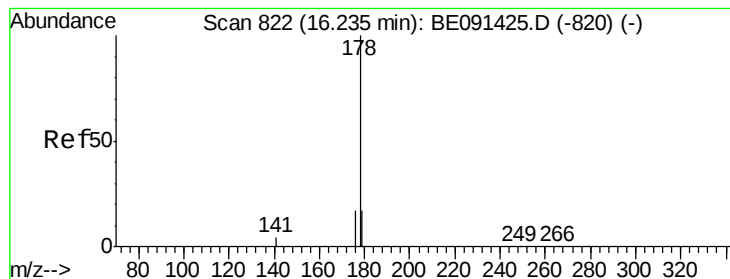


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#17

Anthracene

Concen: 0.30 ng

RT: 16.13 min Scan# 819

Delta R.T. -0.10 min

Lab File: BE091449.D

Acq: 4 Mar 2016 7:25

Instrument :

BNA_E

ClientSampleId :

DFTPP

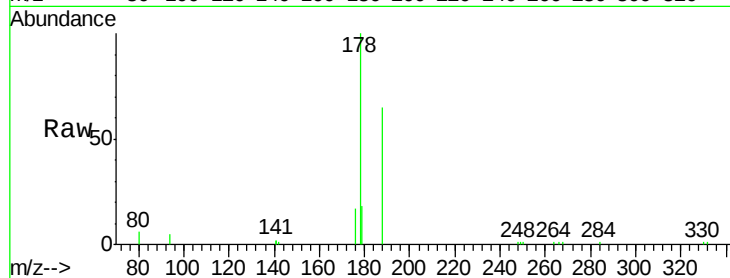
Tgt Ion:178 Resp: 14249

Ion Ratio Lower Upper

178 100

176 16.3 24.4 36.6#

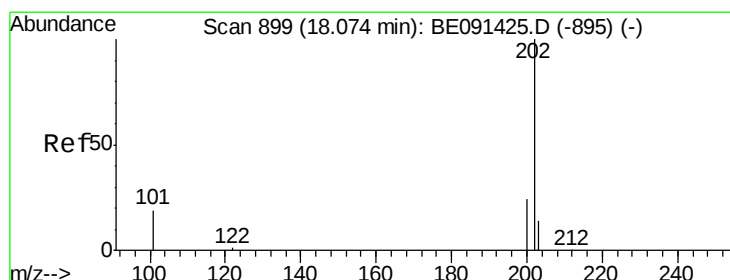
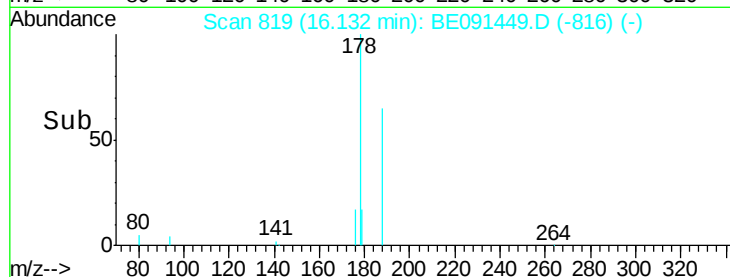
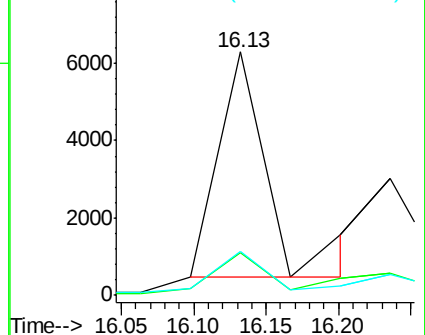
179 15.3 14.8 22.2



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: 0.26 ng

RT: 18.09 min Scan# 900

Delta R.T. 0.02 min

Lab File: BE091449.D

Acq: 4 Mar 2016 7:25

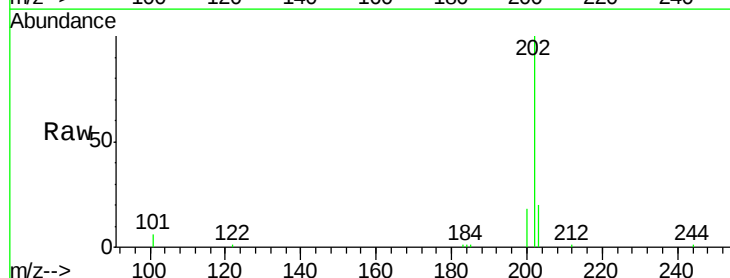
Tgt Ion:202 Resp: 14677

Ion Ratio Lower Upper

202 100

101 13.3 11.0 16.6

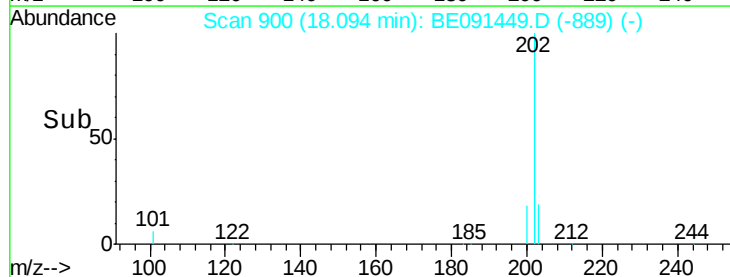
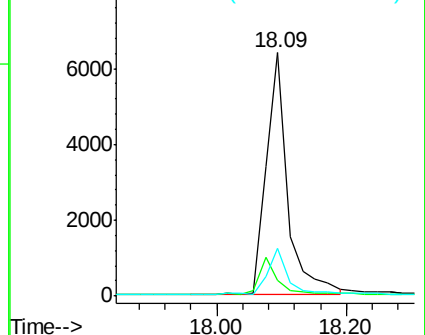
203 17.8 13.7 20.5

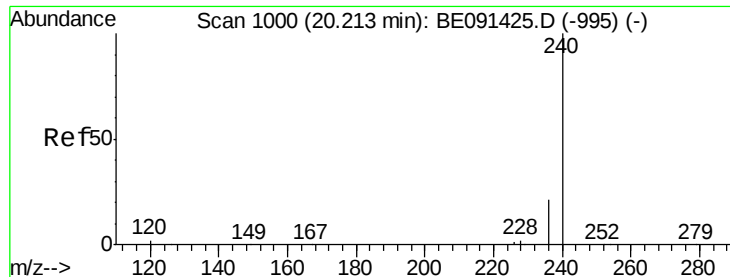


Abundance Ion 202.00 (201.70 to 202.70): E

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: BE091449.D

Acq: 4 Mar 2016 7:25

Instrument :

BNA_E

ClientSampleId :

DFTPP

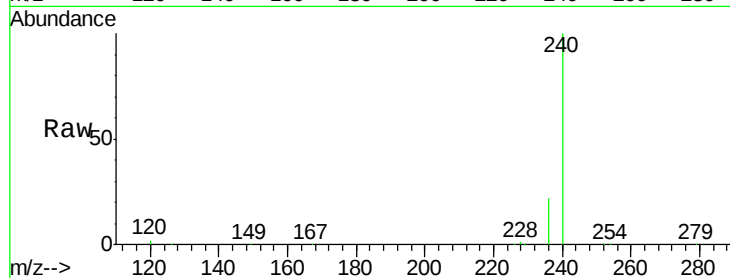
Tgt Ion:240 Resp: 244435

Ion Ratio Lower Upper

240 100

120 2.0 1.4 2.0

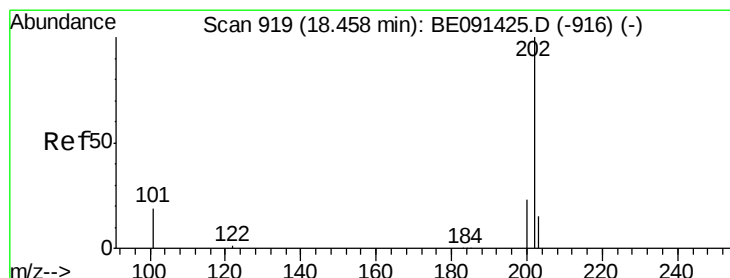
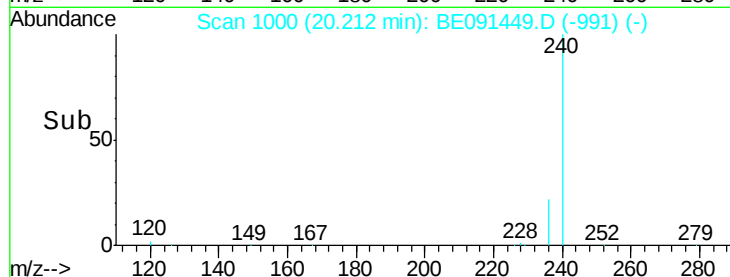
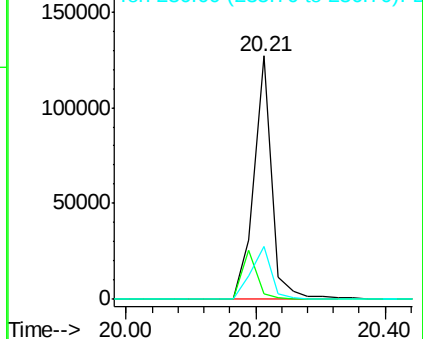
236 21.7 16.7 25.1



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: 0.23 ng

RT: 18.46 min Scan# 919

Delta R.T. 0.00 min

Lab File: BE091449.D

Acq: 4 Mar 2016 7:25

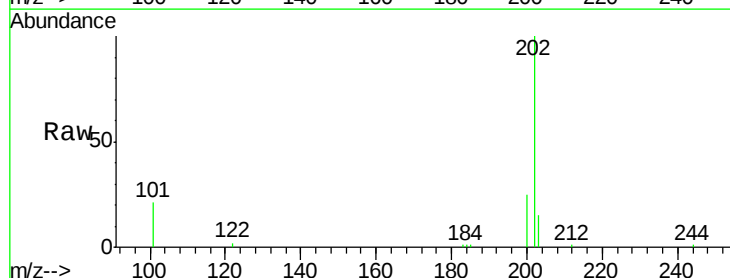
Tgt Ion:202 Resp: 15685

Ion Ratio Lower Upper

202 100

200 21.2 16.5 24.7

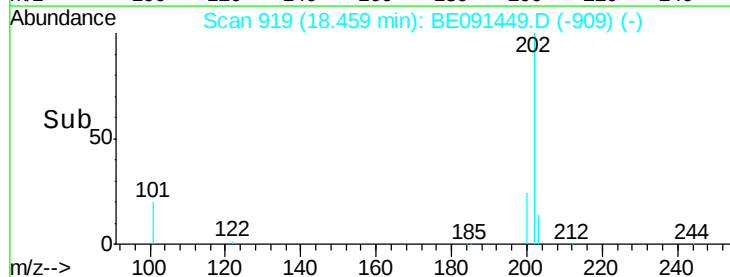
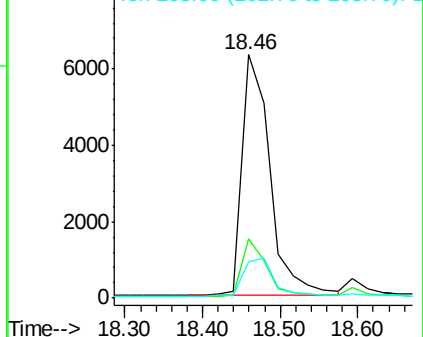
203 17.3 13.8 20.6

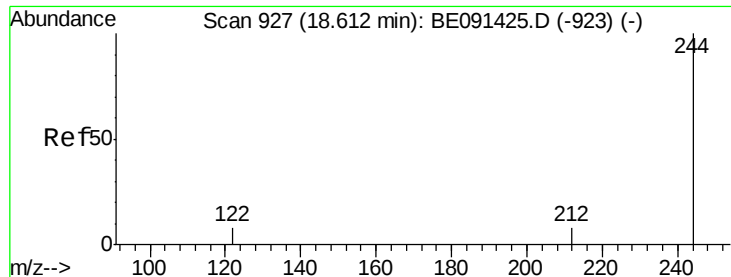


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E

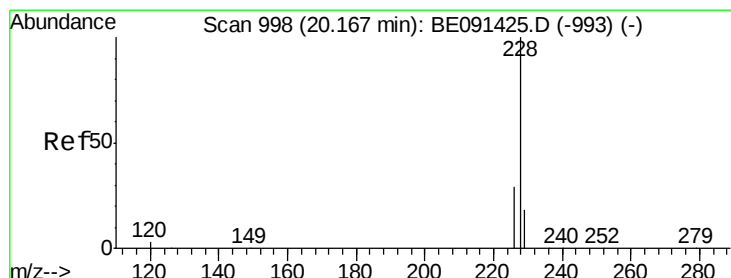
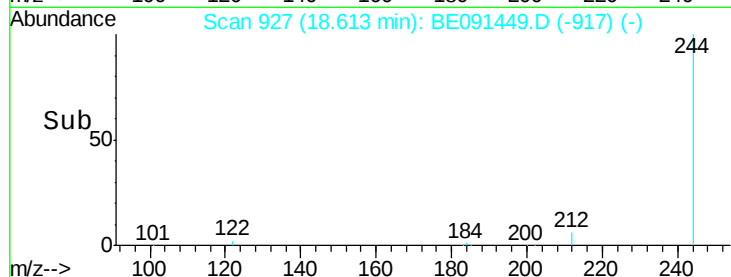
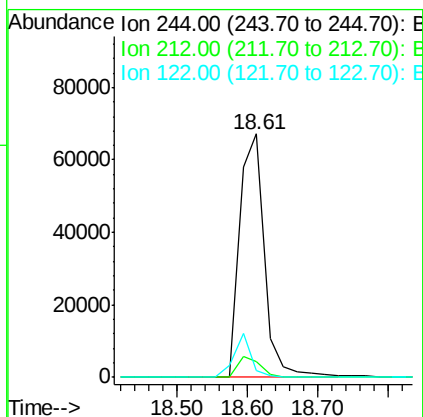
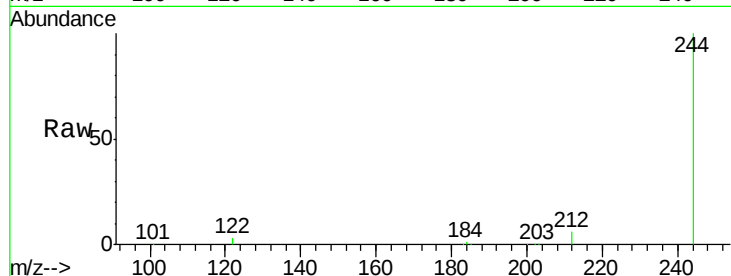




#21
 Terphenyl-d14
 Concen: 4.40 ng
 RT: 18.61 min Scan# 927
 Delta R.T. 0.00 min
 Lab File: BE091449.D
 Acq: 4 Mar 2016 7:25

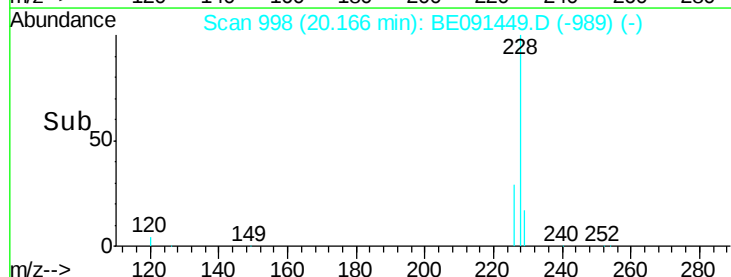
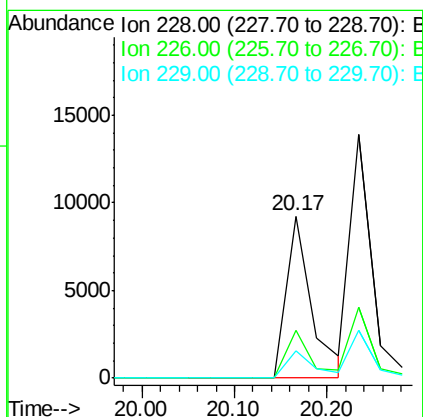
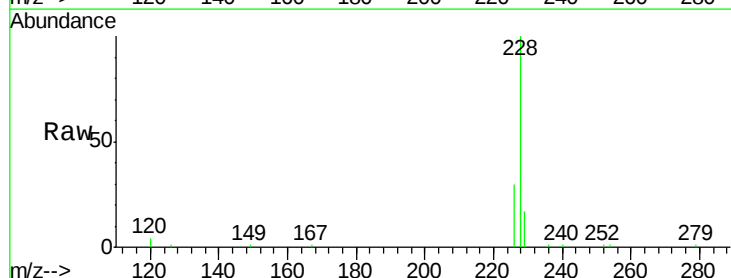
Instrument :
 BNA_E
 ClientSampleId :
 DFTPP

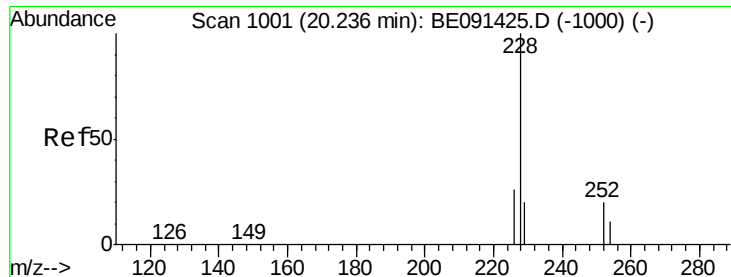
Tgt Ion:244 Resp: 163747
 Ion Ratio Lower Upper
 244 100
 212 6.4 7.0 10.6#
 122 2.6 6.8 10.2#



#22
 Benzo(a)anthracene
 Concen: 0.21 ng
 RT: 20.17 min Scan# 998
 Delta R.T. -0.00 min
 Lab File: BE091449.D
 Acq: 4 Mar 2016 7:25

Tgt Ion:228 Resp: 17473
 Ion Ratio Lower Upper
 228 100
 226 29.5 23.1 34.7
 229 17.2 14.5 21.7

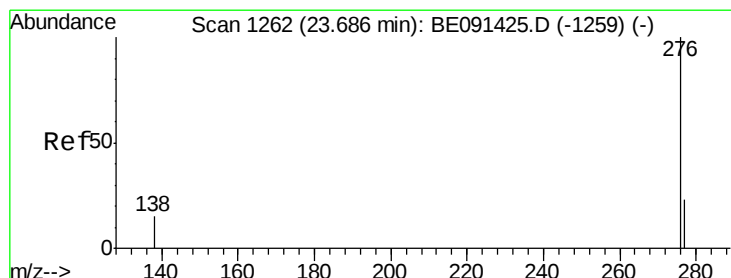
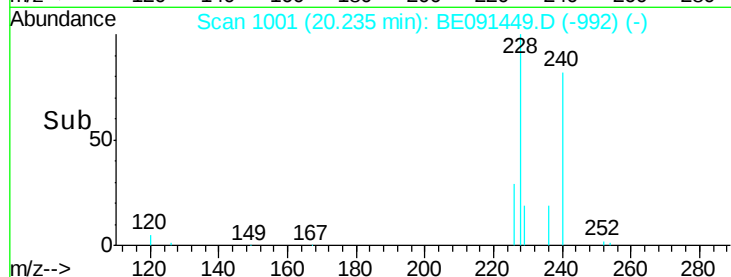
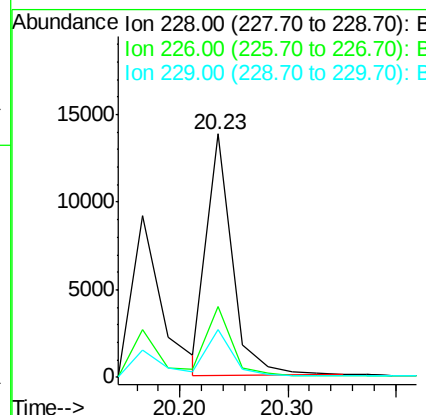
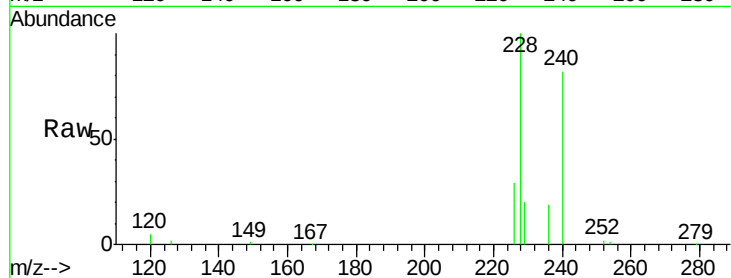




#23
Chrysene
Concen: 0.25 ng
RT: 20.23 min Scan# 1001
Delta R.T. -0.00 min
Lab File: BE091449.D
Acq: 4 Mar 2016 7:25

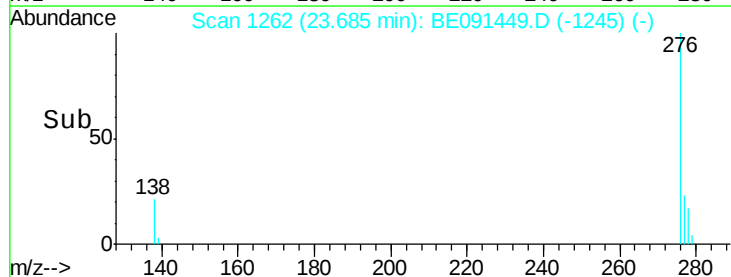
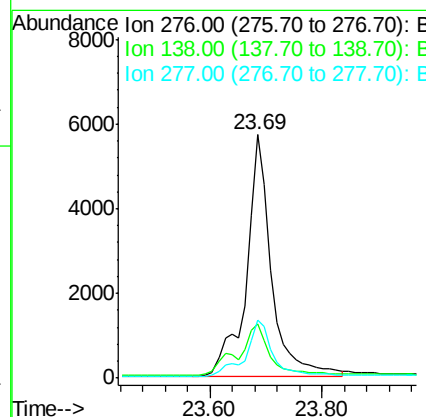
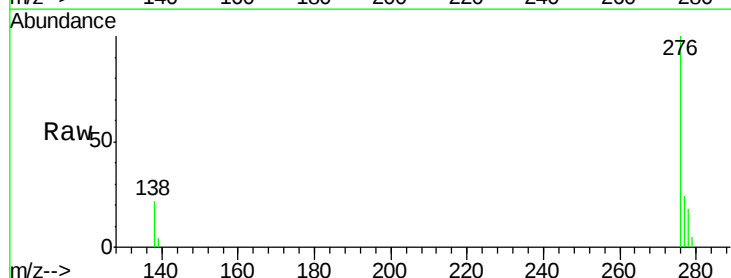
Instrument :
BNA_E
ClientSampleId :
DFTPP

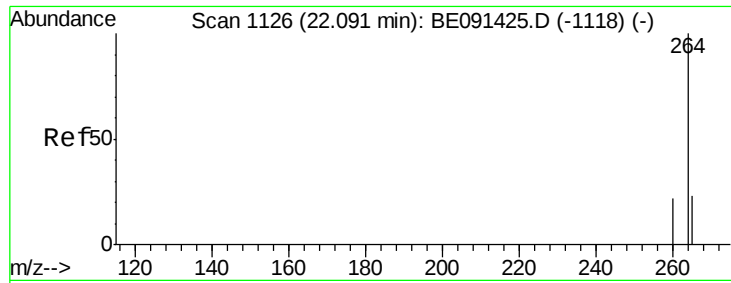
Tgt Ion: 228 Resp: 22419
Ion Ratio Lower Upper
228 100
226 28.9 22.0 33.0
229 19.6 16.2 24.2



#24
Indeno(1,2,3-cd)pyrene
Concen: 0.24 ng
RT: 23.69 min Scan# 1262
Delta R.T. -0.00 min
Lab File: BE091449.D
Acq: 4 Mar 2016 7:25

Tgt Ion: 276 Resp: 17909
Ion Ratio Lower Upper
276 100
138 26.4 16.1 24.1#
277 24.8 22.9 34.3

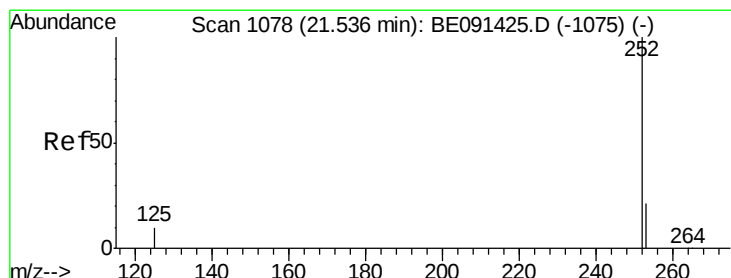
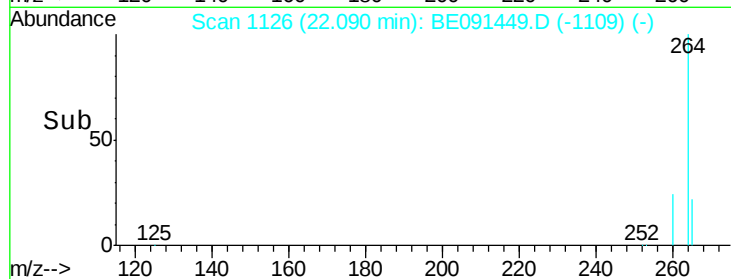
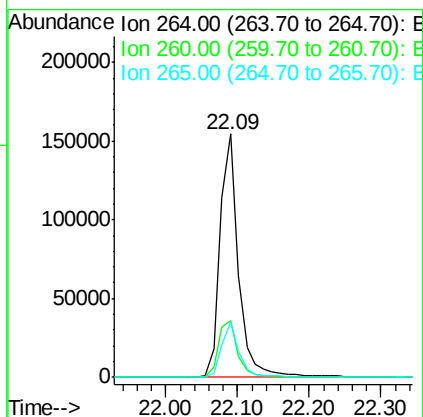
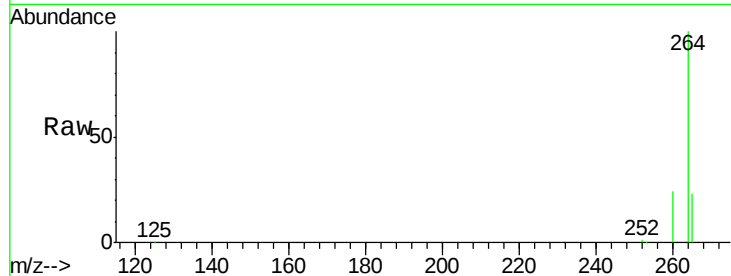




#25
Perylene-d12
Concen: 5.00 ng
RT: 22.09 min Scan# 1126
Delta R.T. -0.00 min
Lab File: BE091449.D
Acq: 4 Mar 2016 7:25

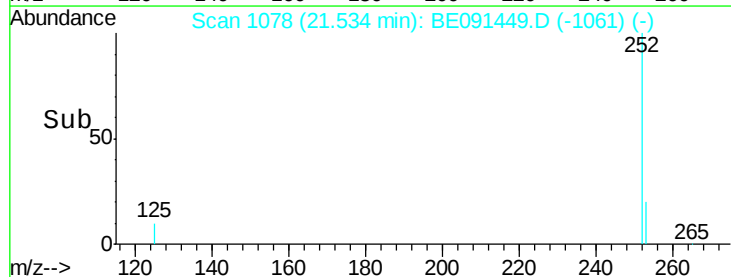
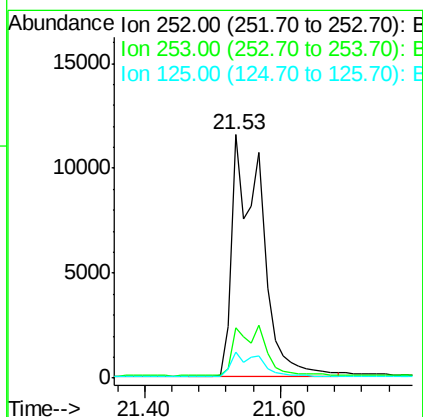
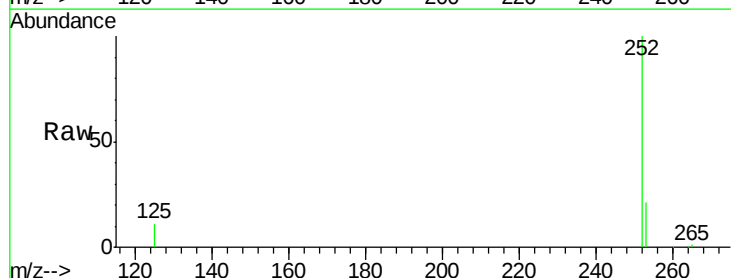
Instrument :
BNA_E
ClientSampleId :
DFTPP

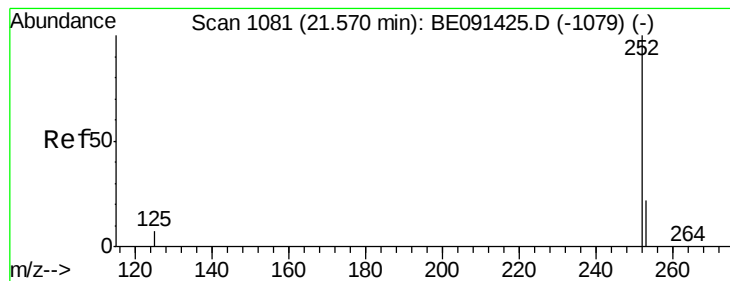
Tgt Ion: 264 Resp: 276158
Ion Ratio Lower Upper
264 100
260 23.5 18.0 27.0
265 22.5 18.2 27.4



#26
Benzo(b)fluoranthene
Concen: 0.45 ng
RT: 21.53 min Scan# 1078
Delta R.T. -0.00 min
Lab File: BE091449.D
Acq: 4 Mar 2016 7:25

Tgt Ion: 252 Resp: 34444
Ion Ratio Lower Upper
252 100
253 20.7 17.0 25.4
125 10.7 8.3 12.5





#27

Benzo(k)fluoranthene

Concen: 0.47 ng

RT: 21.53 min Scan# 1078

Delta R.T. -0.04 min

Lab File: BE091449.D

Acq: 4 Mar 2016 7:25

Instrument :

BNA_E

ClientSampleId :

DFTPP

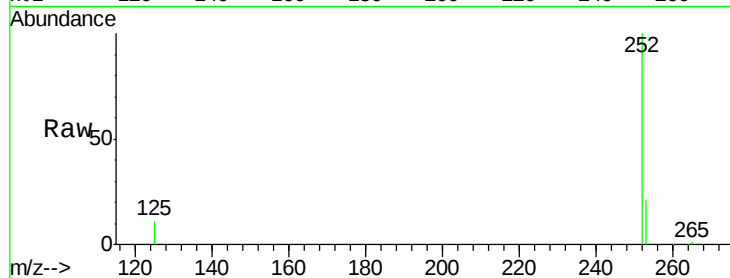
Tgt Ion:252 Resp: 34741

Ion Ratio Lower Upper

252 100

253 20.7 19.5 29.3

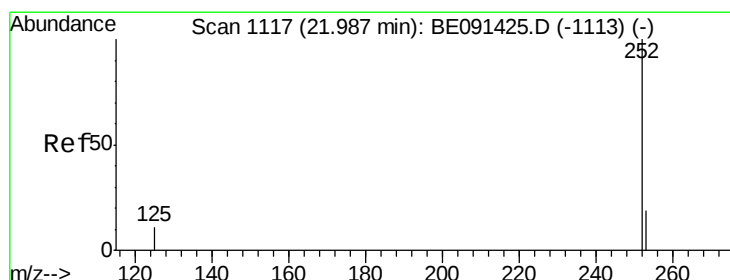
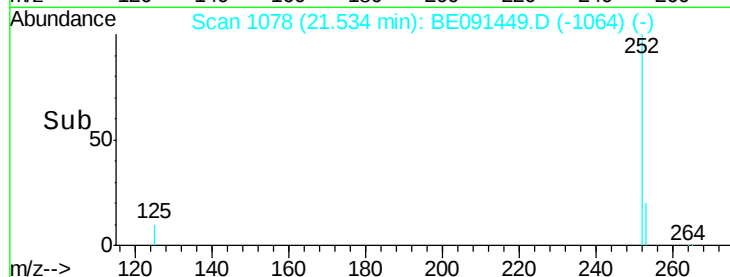
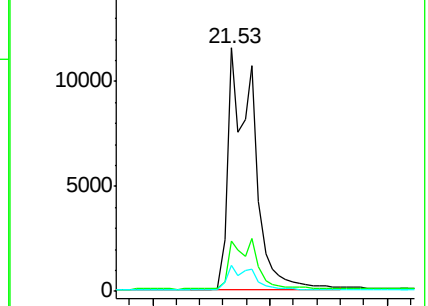
125 10.7 7.3 10.9



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: 0.22 ng

RT: 21.99 min Scan# 1117

Delta R.T. -0.00 min

Lab File: BE091449.D

Acq: 4 Mar 2016 7:25

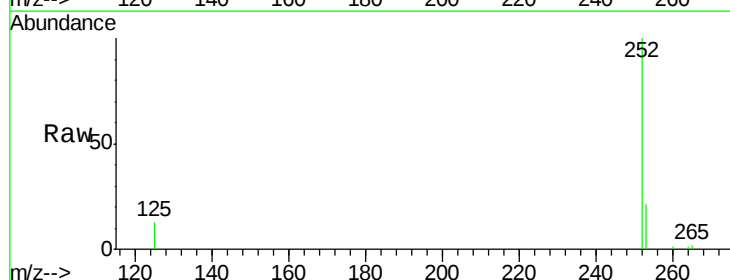
Tgt Ion:252 Resp: 14532

Ion Ratio Lower Upper

252 100

253 20.7 16.2 24.4

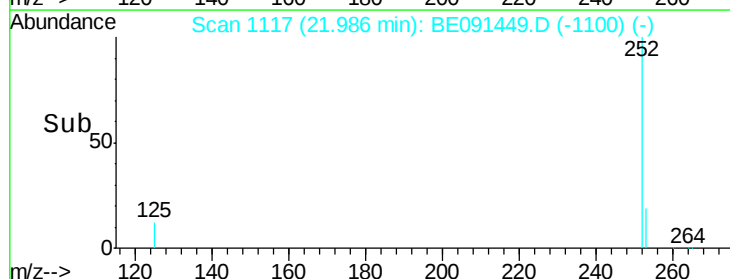
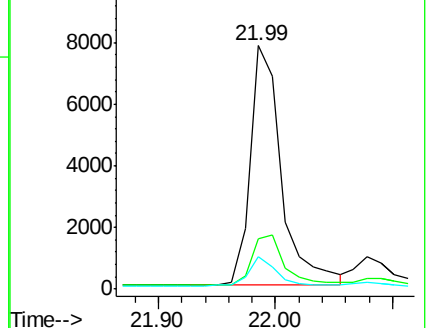
125 13.1 9.6 14.4

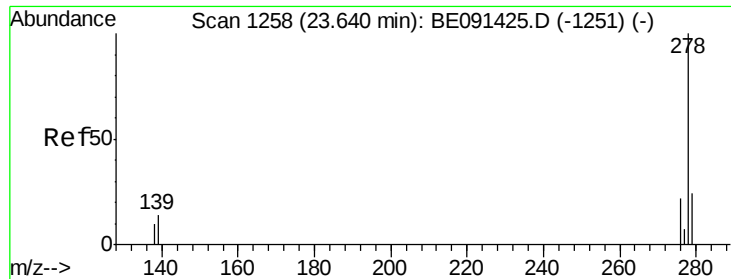


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#29

Dibenzo(a,h)anthracene

Concen: 0.22 ng

RT: 23.64 min Scan# 1258

Delta R.T. -0.00 min

Lab File: BE091449.D

Acq: 4 Mar 2016 7:25

Instrument :

BNA_E

ClientSampleId :

DFTPP

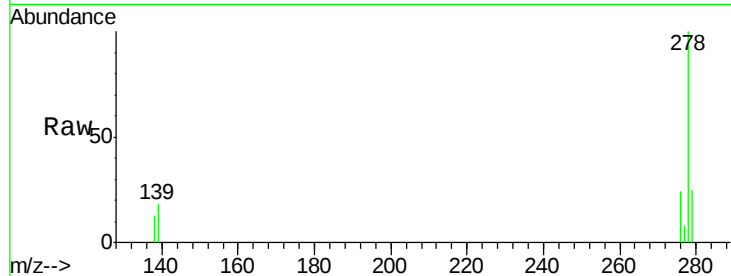
Tgt Ion: 278 Resp: 13739

Ion Ratio Lower Upper

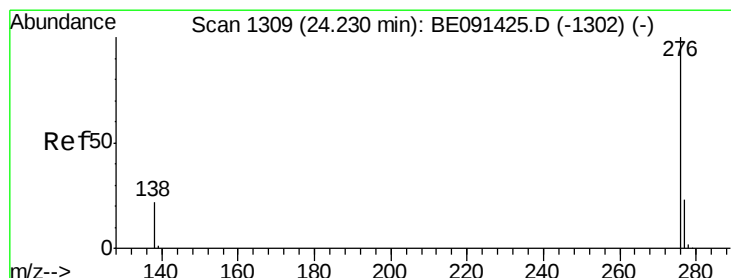
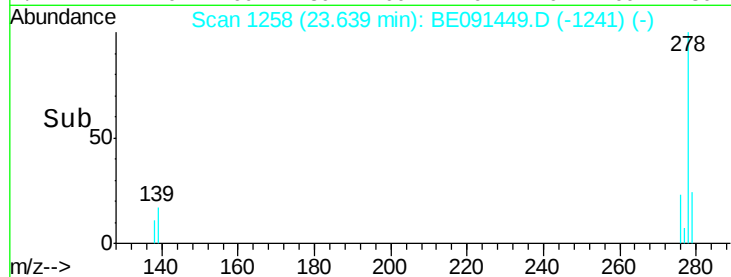
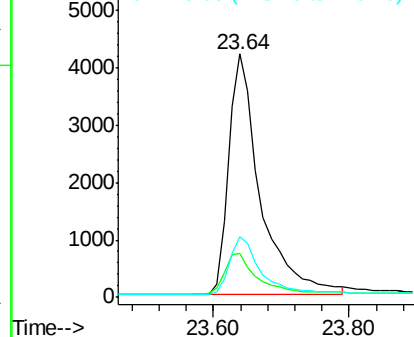
278 100

139 18.1 12.1 18.1#

279 25.1 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: 0.23 ng

RT: 24.24 min Scan# 1310

Delta R.T. 0.01 min

Lab File: BE091449.D

Acq: 4 Mar 2016 7:25

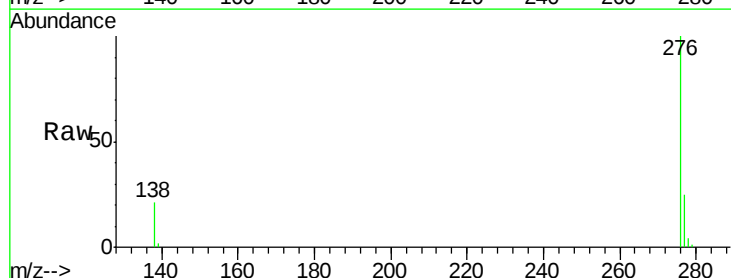
Tgt Ion: 276 Resp: 16154

Ion Ratio Lower Upper

276 100

277 24.8 19.0 28.6

138 21.5 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

