

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE030316\
 Data File : BE091433.D
 Acq On : 3 Mar 2016 21:34
 Operator : UM/IZ
 Sample : MDL-02-S
 Misc : 0.08PPM
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 MDL-02-S

Quant Time: Mar 04 08:01:48 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

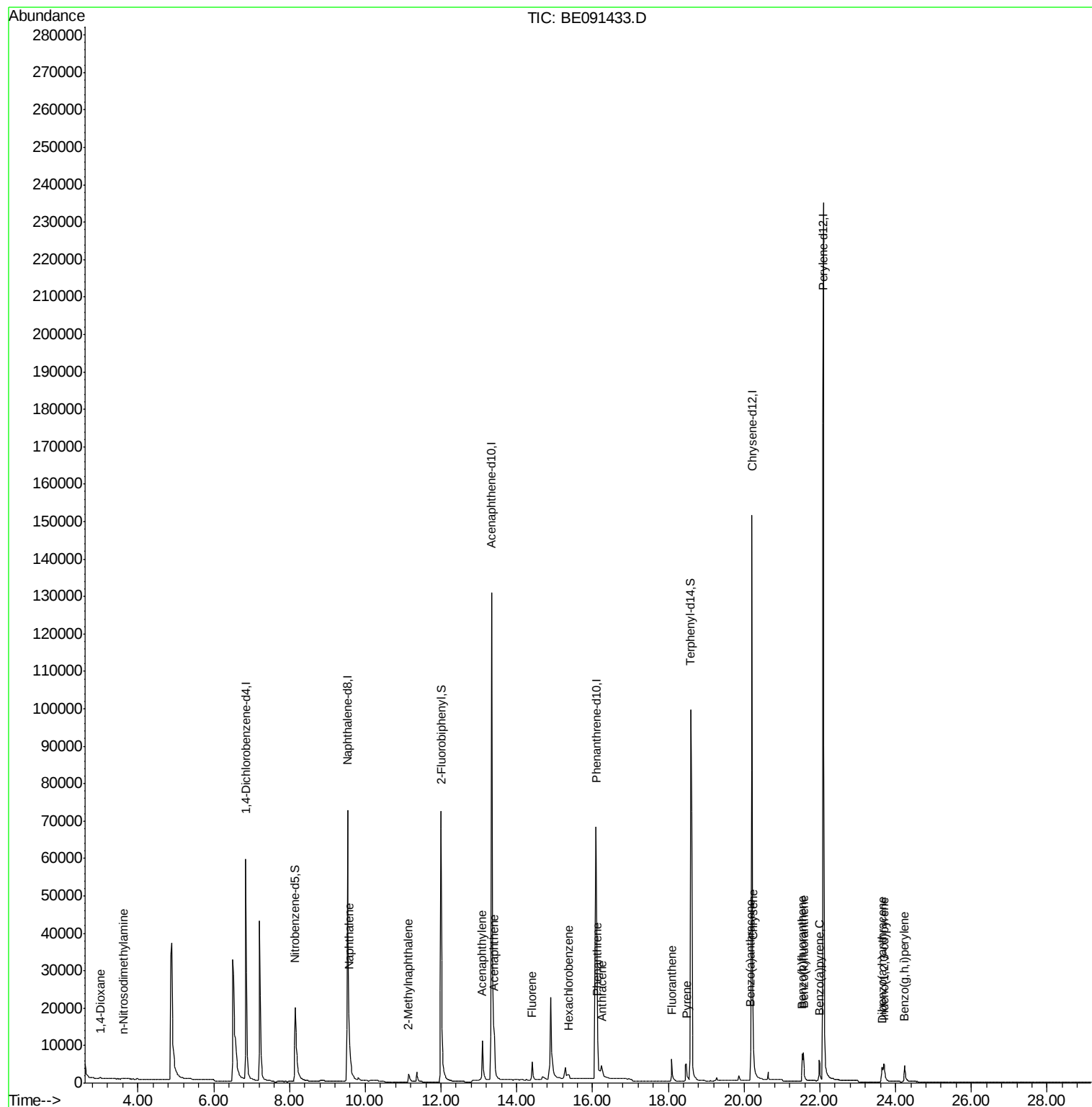
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.85	152	34320	5.00	ng	-0.02
4) Naphthalene-d8	9.53	136	147565	5.00	ng	0.00
8) Acenaphthene-d10	13.34	164	93265	5.00	ng	0.00
13) Phenanthrene-d10	16.10	188	157123	5.00	ng	0.00
19) Chrysene-d12	20.21	240	249898	5.00	ng	0.00
25) Perylene-d12	22.09	264	281243	5.00	ng	0.00
System Monitoring Compounds						
5) Nitrobenzene-d5	8.15	82	37174	4.07	ng	-0.03
9) 2-Fluorobiphenyl	12.00	172	107225	4.74	ng	0.00
21) Terphenyl-d14	18.59	244	184410	4.85	ng	-0.02
Target Compounds						Qvalue
2) 1,4-Dioxane	3.00	88	367	0.12	ng	98
3) n-Nitrosodimethylamine	3.63	42	129	0.09	ng	# 1
6) Naphthalene	9.57	128	4760	0.14	ng	94
7) 2-Methylnaphthalene	11.15	142	2812	0.14	ng	# 86
10) Acenaphthylene	13.09	152	18643	0.12	ng	99
11) Acenaphthene	13.41	154	3912	0.14	ng	# 100
12) Fluorene	14.41	166	4414	0.12	ng	97
14) Hexachlorobenzene	15.38	284	1456	0.16	ng	# 100
15) Pentachlorophenol	15.93	266	103	Below Cal		94
16) Phenanthrene	16.13	178	7861	0.14	ng	99
17) Anthracene	16.24	178	8143m	0.25	ng	
18) Fluoranthene	18.09	202	8207	0.21	ng	98
20) Pyrene	18.48	202	8614	0.12	ng	99
22) Benzo(a)anthracene	20.17	228	9862	0.11	ng	99
23) Chrysene	20.24	228	12025	0.13	ng	98
24) Indeno(1,2,3-cd)pyrene	23.70	276	8702m	0.12	ng	
26) Benzo(b)fluoranthene	21.53	252	10948m	0.14	ng	
27) Benzo(k)fluoranthene	21.57	252	8981m	0.12	ng	
28) Benzo(a)pyrene	21.99	252	8057	0.12	ng	95
29) Dibenzo(a,h)anthracene	23.65	278	7546	0.12	ng	96
30) Benzo(g,h,i)perylene	24.24	276	8744	0.12	ng	95

(#) = 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: BE091433.D

Acq: 3 Mar 2016 21:34

Instrument :

BNA_E

ClientSampleId :

MDL-02-S

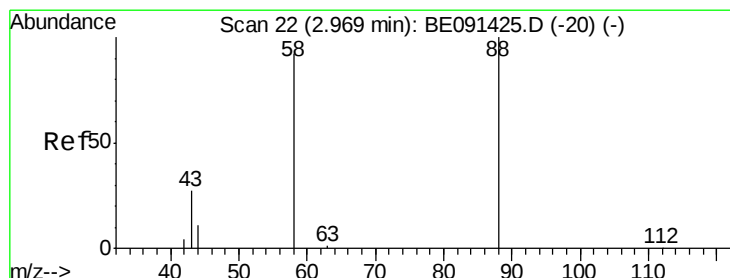
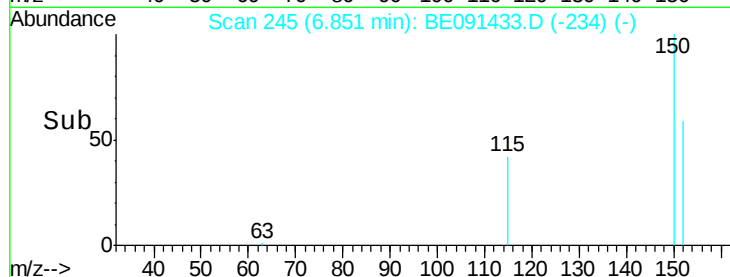
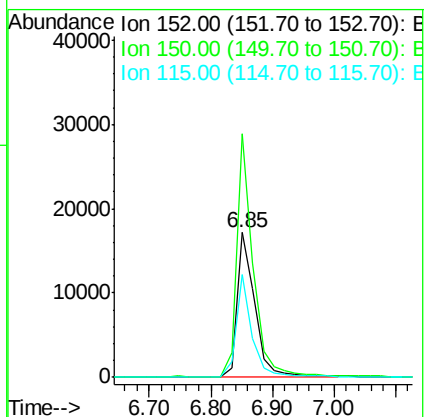
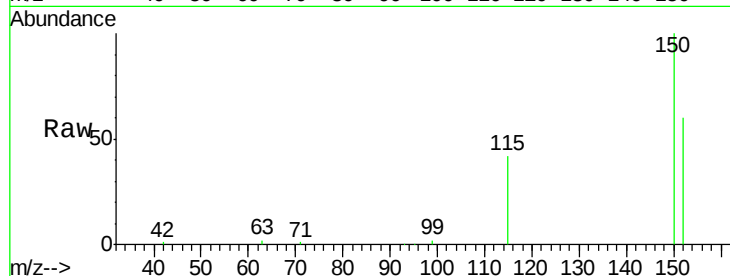
Tgt Ion:152 Resp: 34320

Ion Ratio Lower Upper

152 100

150 168.0 115.0 172.4

115 70.8 42.2 63.4#



#2

1,4-Dioxane

Concen: 0.12 ng

RT: 3.00 min Scan# 24

Delta R.T. 0.03 min

Lab File: BE091433.D

Acq: 3 Mar 2016 21:34

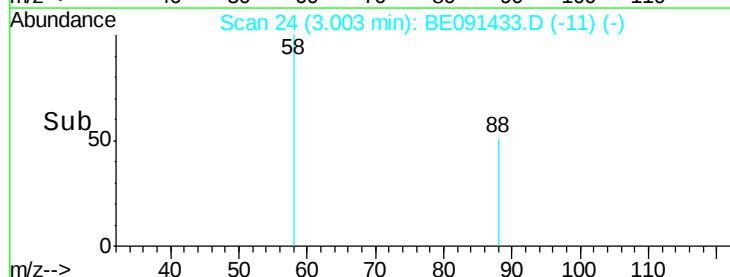
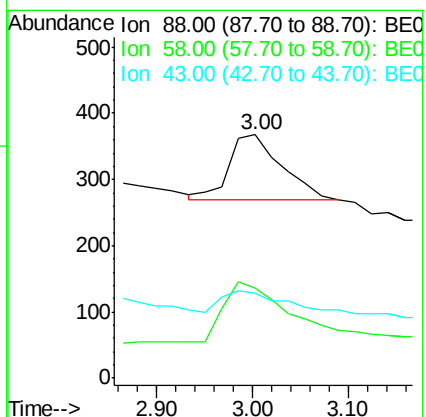
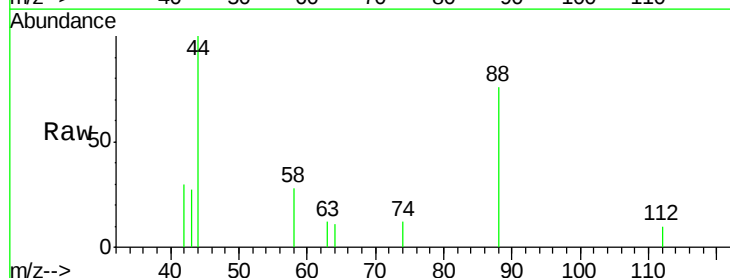
Tgt Ion: 88 Resp: 367

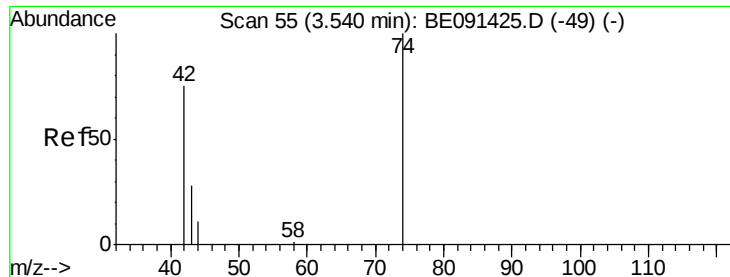
Ion Ratio Lower Upper

88 100

58 124.8 97.9 146.9

43 38.1 29.0 43.4





#3

n-Nitrosodimethylamine

Concen: 0.09 ng

RT: 3.63 min Scan# 60

Delta R.T. 0.09 min

Lab File: BE091433.D

Acq: 3 Mar 2016 21:34

Instrument :

BNA_E

ClientSampleId :

MDL-02-S

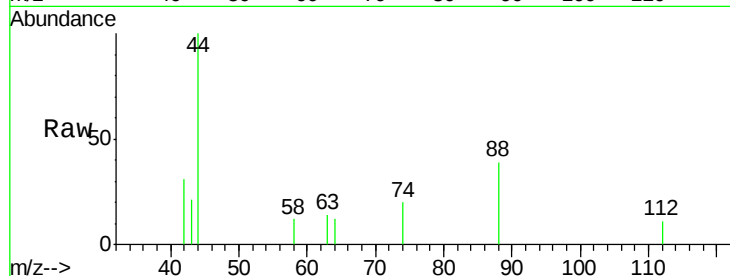
Tgt Ion: 42 Resp: 129

Ion Ratio Lower Upper

42 100

74 0.0 93.8 140.6#

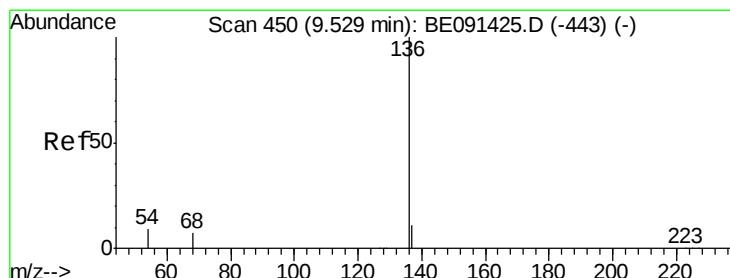
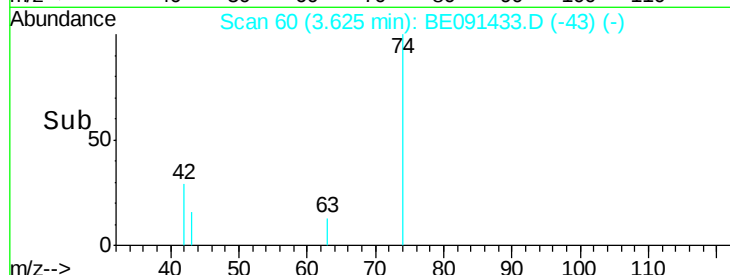
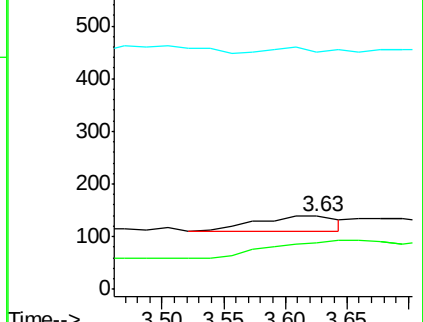
44 31.0 0.0 0.0#



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: BE091433.D

Acq: 3 Mar 2016 21:34

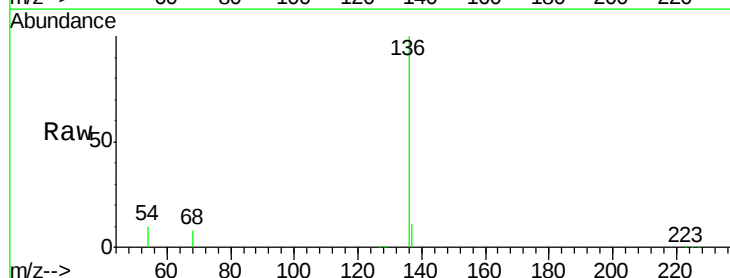
Tgt Ion: 136 Resp: 147565

Ion Ratio Lower Upper

136 100

137 10.8 8.7 13.1

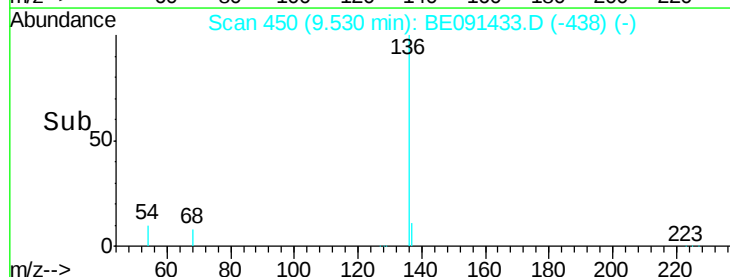
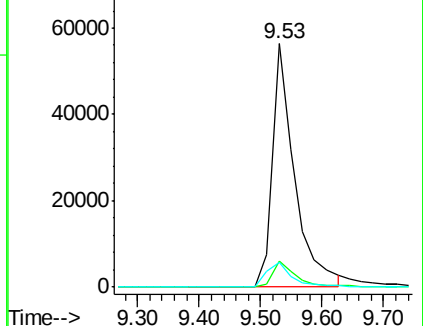
54 10.4 6.9 10.3#

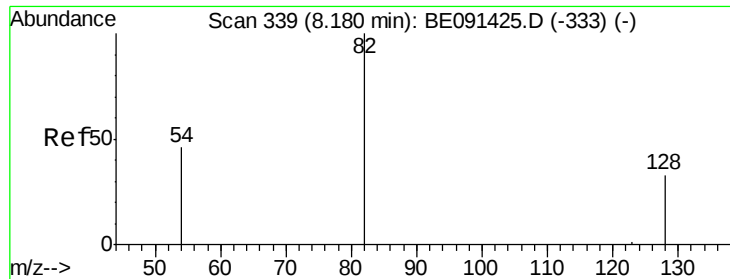


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BE0





#5

Nitrobenzene-d5

Concen: 4.07 ng

RT: 8.15 min Scan# 336

Delta R.T. -0.03 min

Lab File: BE091433.D

Acq: 3 Mar 2016 21:34

Instrument :

BNA_E

ClientSampleId :

MDL-02-S

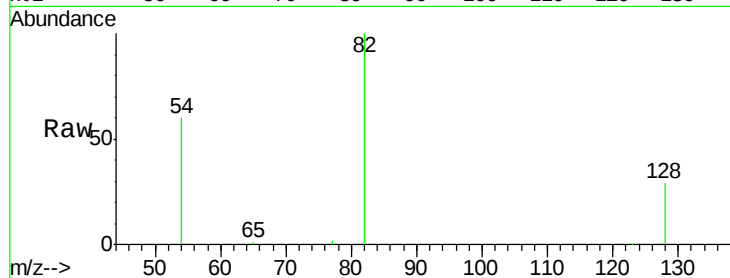
Tgt Ion: 82 Resp: 37174

Ion Ratio Lower Upper

82 100

128 28.5 30.0 45.0#

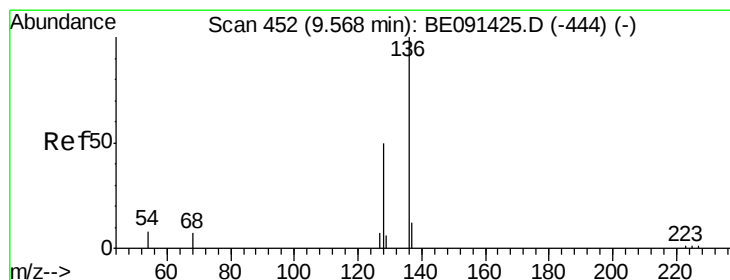
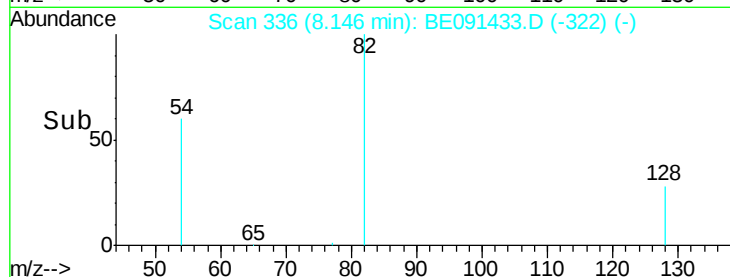
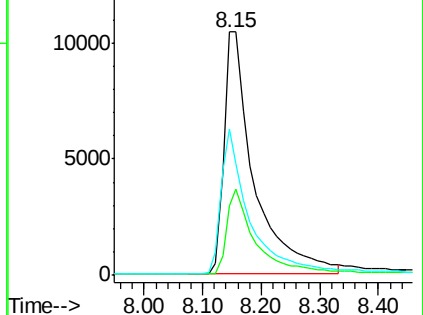
54 60.3 41.5 62.3



Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): BE0

Ion 54.00 (53.70 to 54.70): BE0



#6

Naphthalene

Concen: 0.14 ng

RT: 9.57 min Scan# 452

Delta R.T. 0.00 min

Lab File: BE091433.D

Acq: 3 Mar 2016 21:34

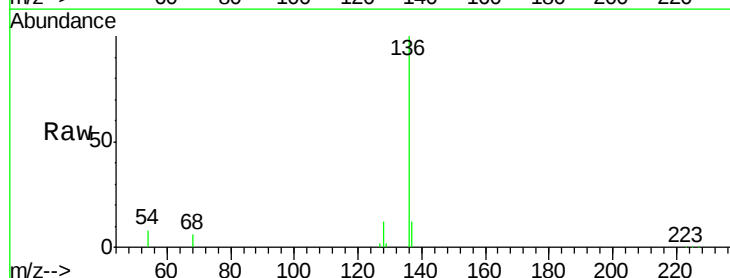
Tgt Ion: 128 Resp: 4760

Ion Ratio Lower Upper

128 100

129 13.8 9.5 14.3

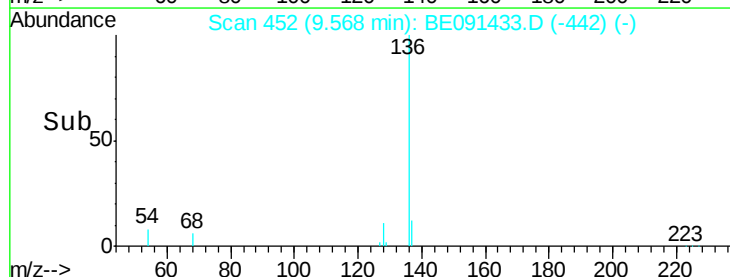
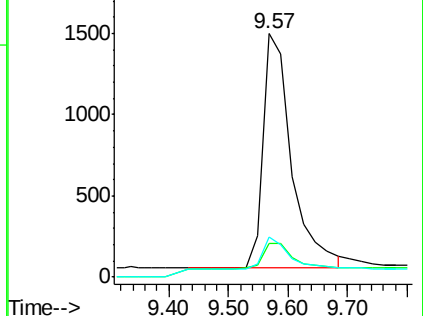
127 16.7 11.4 17.0

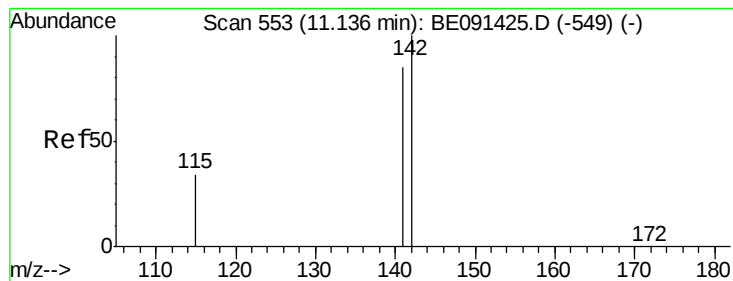


Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E





#7

2-Methylnaphthalene

Concen: 0.14 ng

RT: 11.15 min Scan# 554

Delta R.T. 0.01 min

Lab File: BE091433.D

Acq: 3 Mar 2016 21:34

Instrument :

BNA_E

ClientSampleId :

MDL-02-S

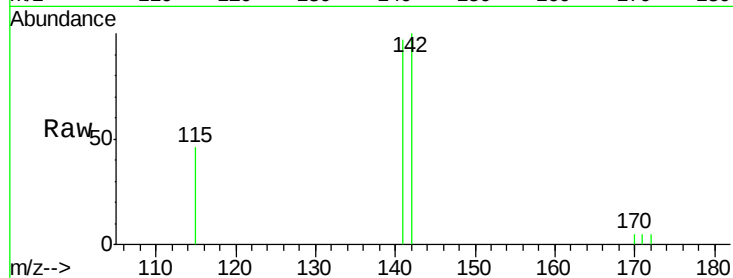
Tgt Ion:142 Resp: 2812

Ion Ratio Lower Upper

142 100

141 97.1 68.3 102.5

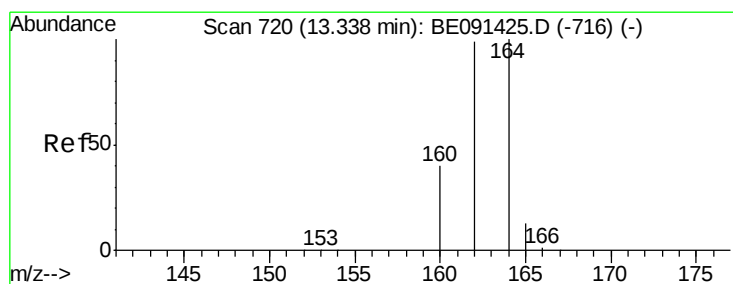
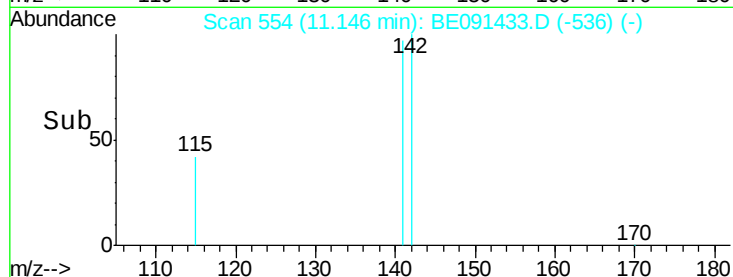
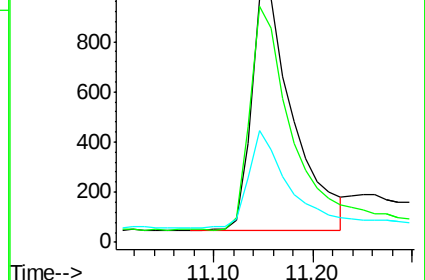
115 45.7 28.9 43.3#



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: BE091433.D

Acq: 3 Mar 2016 21:34

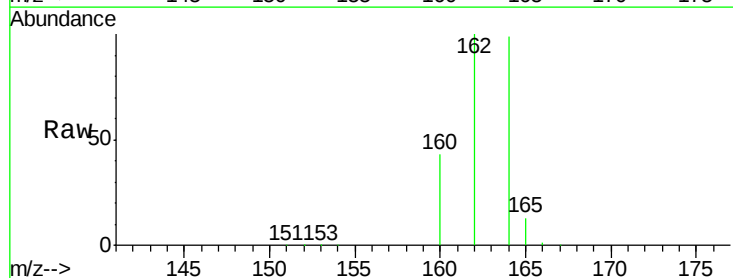
Tgt Ion:164 Resp: 93265

Ion Ratio Lower Upper

164 100

162 101.4 79.1 118.7

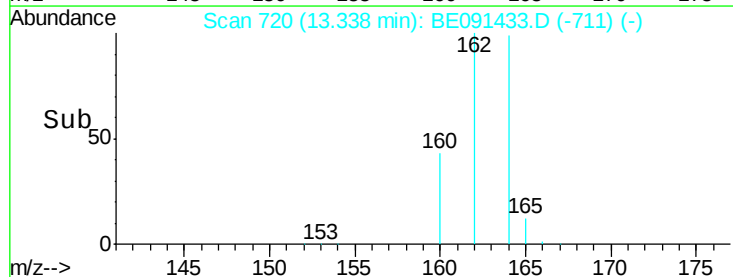
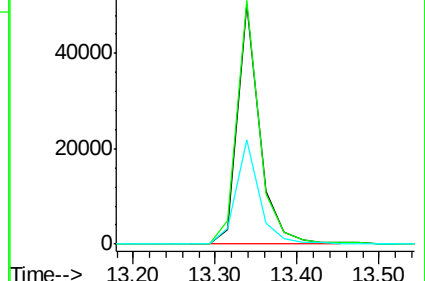
160 43.2 32.4 48.6

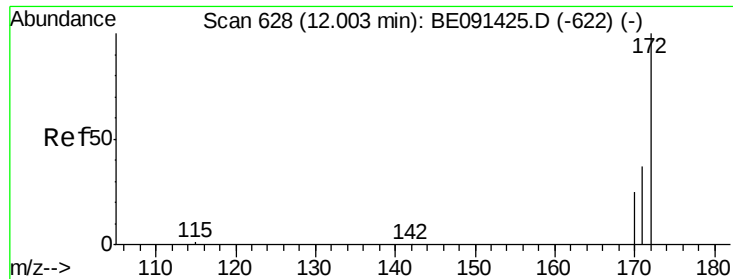


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E





#9

2-Fluorobiphenyl

Concen: 4.74 ng

RT: 12.00 min Scan# 628

Delta R.T. -0.00 min

Lab File: BE091433.D

Acq: 3 Mar 2016 21:34

Instrument :

BNA_E

ClientSampleId :

MDL-02-S

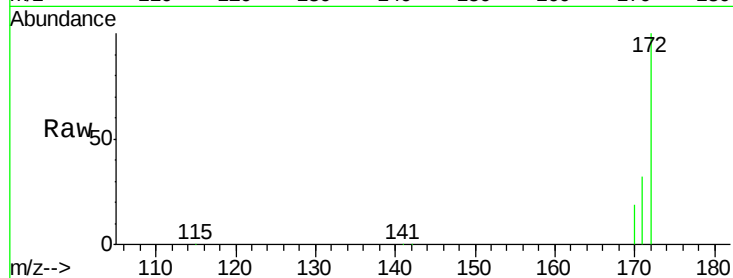
Tgt Ion:172 Resp: 107225

Ion Ratio Lower Upper

172 100

171 31.7 30.2 45.4

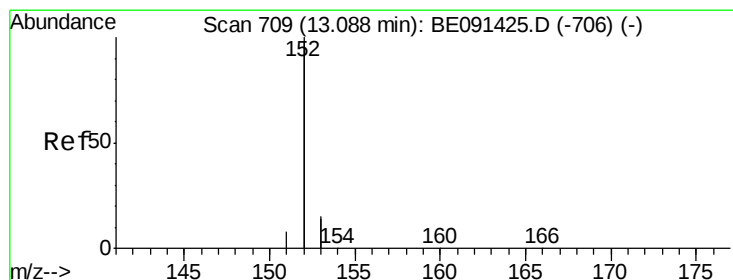
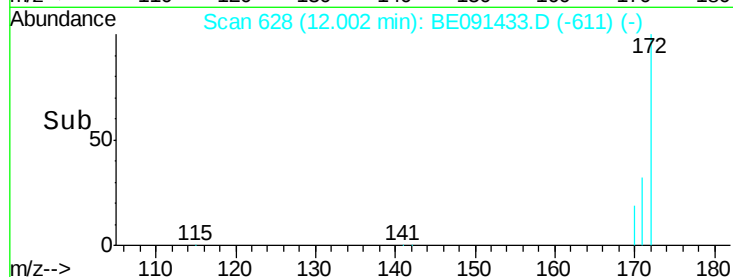
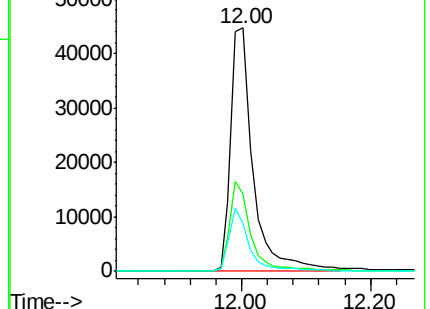
170 19.4 20.9 31.3#



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: 0.12 ng

RT: 13.09 min Scan# 709

Delta R.T. 0.00 min

Lab File: BE091433.D

Acq: 3 Mar 2016 21:34

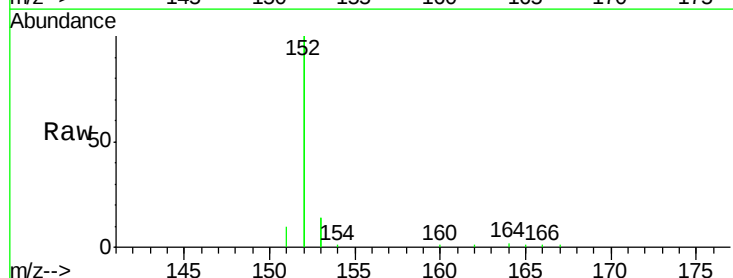
Tgt Ion:152 Resp: 18643

Ion Ratio Lower Upper

152 100

151 4.6 3.9 5.9

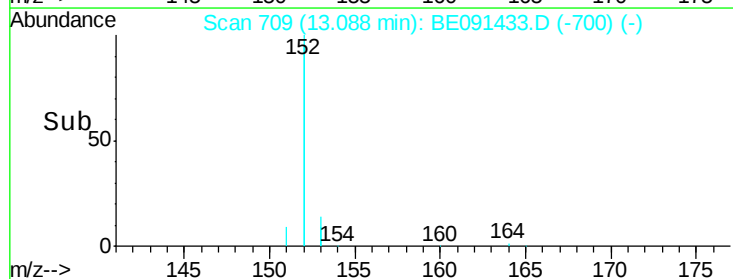
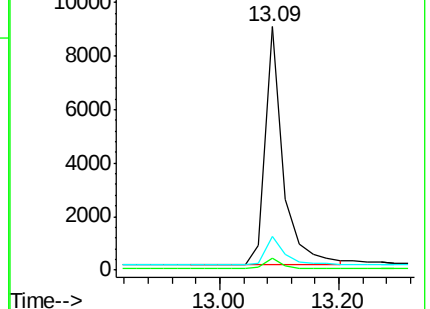
153 12.7 10.5 15.7

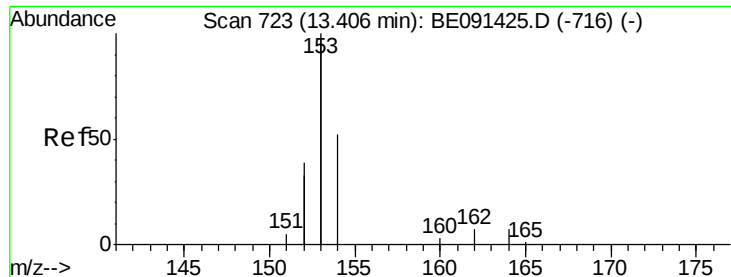


Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E

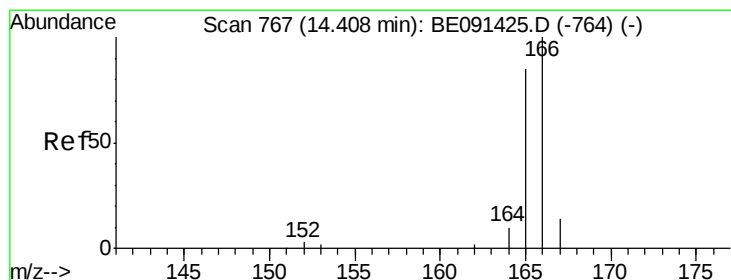
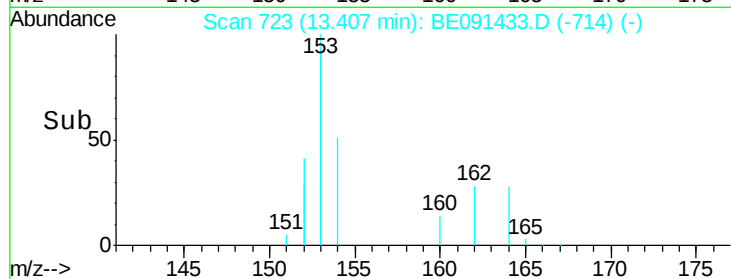
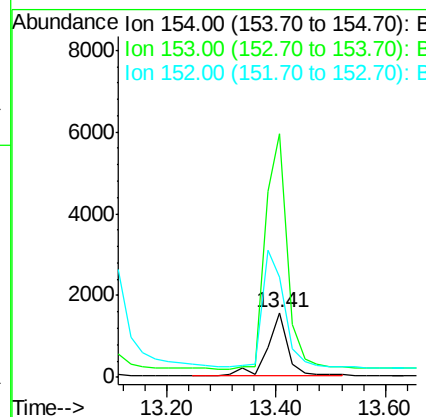
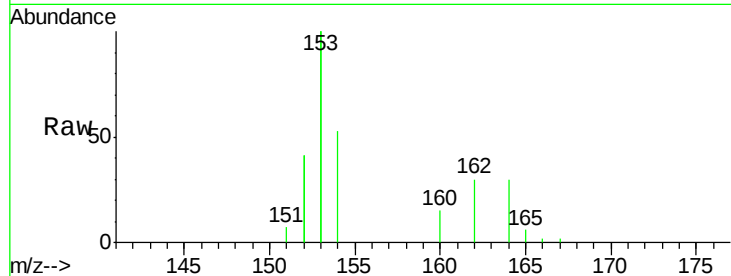




#11
Acenaphthene
Concen: 0.14 ng
RT: 13.41 min Scan# 723
Delta R.T. 0.00 min
Lab File: BE091433.D
Acq: 3 Mar 2016 21:34

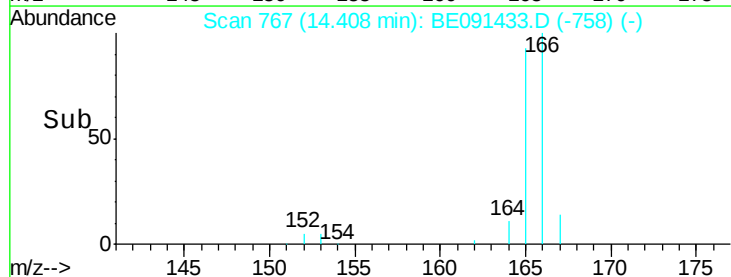
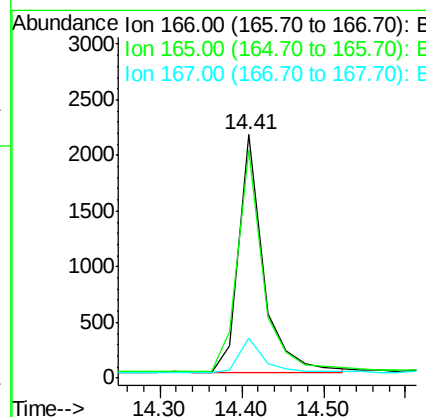
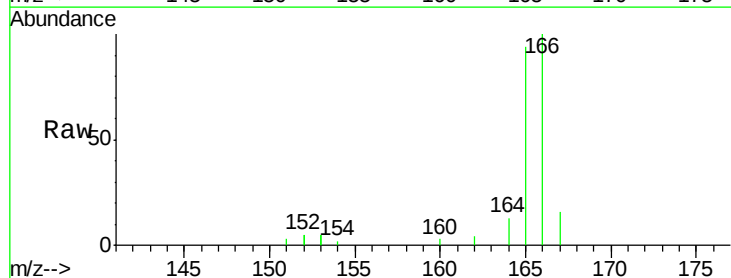
Instrument :
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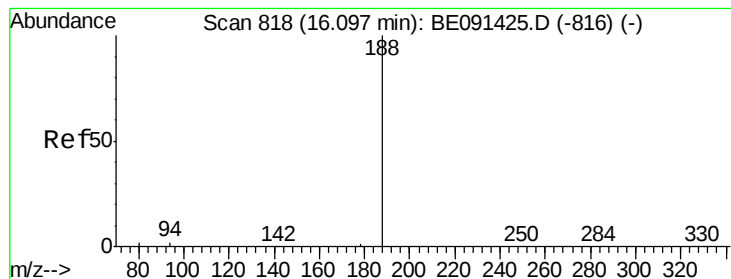
Tgt Ion:154 Resp: 3912
Ion Ratio Lower Upper
154 100
153 408.9 0.0 0.0#
152 0.0 0.0 0.0



#12
Fluorene
Concen: 0.12 ng
RT: 14.41 min Scan# 767
Delta R.T. 0.00 min
Lab File: BE091433.D
Acq: 3 Mar 2016 21:34

Tgt Ion:166 Resp: 4414
Ion Ratio Lower Upper
166 100
165 96.8 79.4 119.2
167 14.6 10.7 16.1





#13

Phenanthrene-d10

Concen: 5.00 ng

RT: 16.10 min Scan# 818

Delta R.T. 0.00 min

Lab File: BE091433.D

Acq: 3 Mar 2016 21:34

Instrument :

BNA_E

ClientSampleId :

MDL-02-S

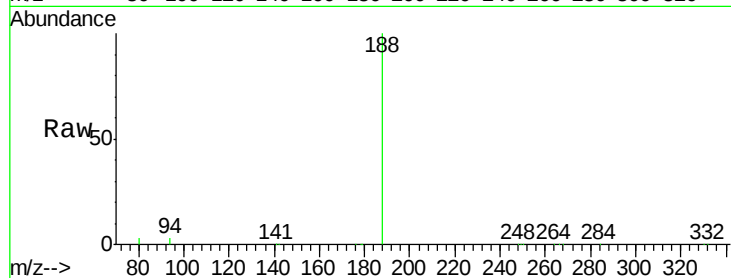
Tgt Ion:188 Resp: 157123

Ion Ratio Lower Upper

188 100

94 3.4 2.1 3.1#

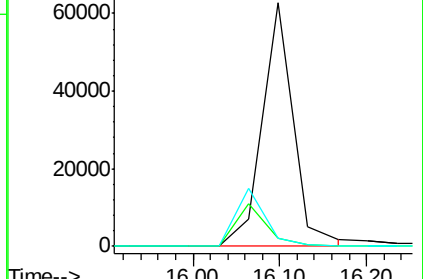
80 3.2 1.9 2.9#



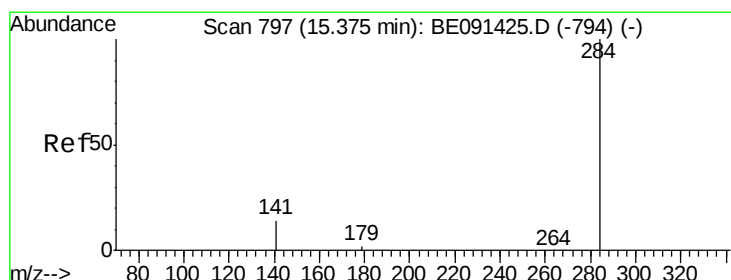
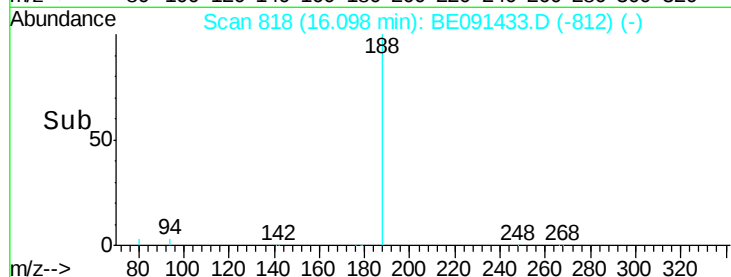
Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BE0

Ion 80.00 (79.70 to 80.70): BE0



Time-->



#14

Hexachlorobenzene

Concen: 0.16 ng

RT: 15.38 min Scan# 797

Delta R.T. 0.00 min

Lab File: BE091433.D

Acq: 3 Mar 2016 21:34

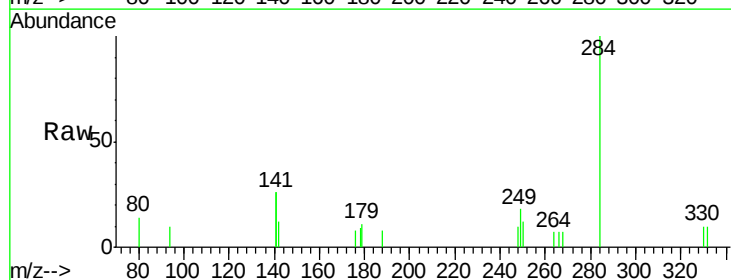
Tgt Ion:284 Resp: 1456

Ion Ratio Lower Upper

284 100

142 0.0 0.0 0.0

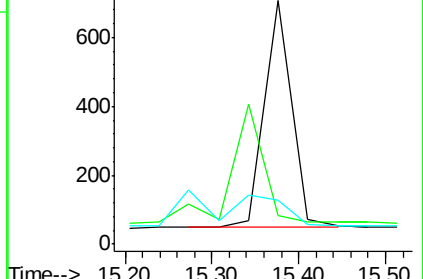
249 0.0 0.0 0.0



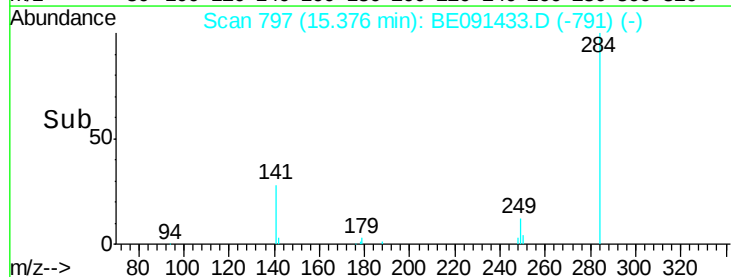
Abundance Ion 283.80 (283.50 to 284.50): E

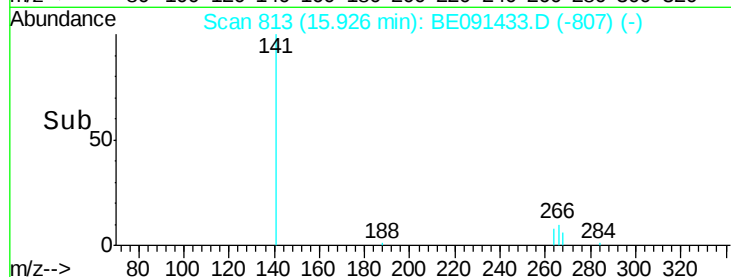
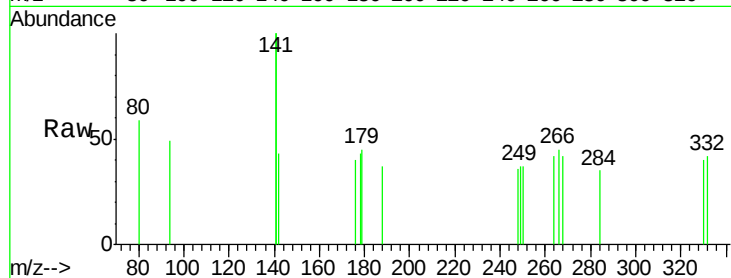
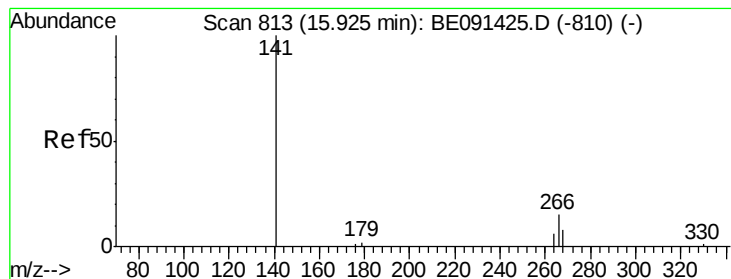
Ion 142.00 (141.70 to 142.70): E

Ion 249.00 (248.70 to 249.70): E



Time-->





#15

Pentachlorophenol

Concen: Below Cal

RT: 15.93 min Scan# 813

Delta R.T. 0.00 min

Lab File: BE091433.D

Acq: 3 Mar 2016 21:34

Instrument :

BNA_E

ClientSampleId :

MDL-02-S

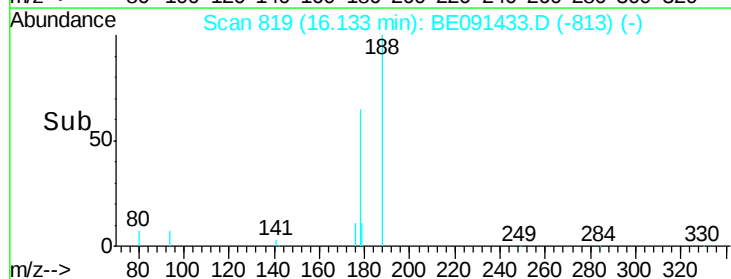
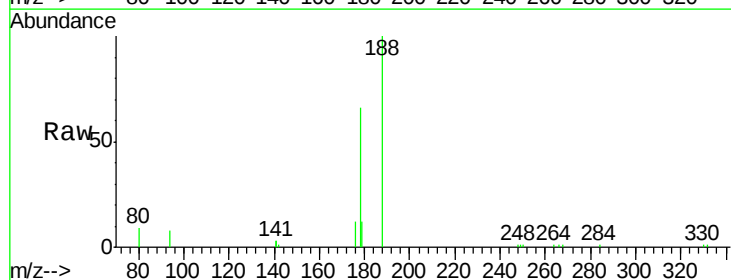
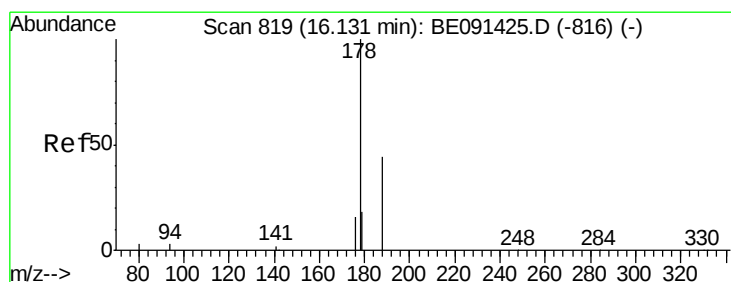
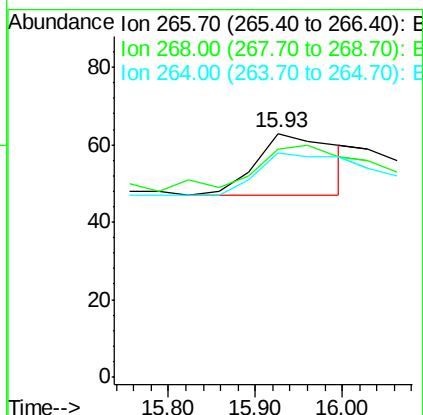
Tgt Ion:266 Resp: 103

Ion Ratio Lower Upper

266 100

268 93.7 73.0 109.6

264 92.1 66.1 99.1



#16

Phenanthrene

Concen: 0.14 ng

RT: 16.13 min Scan# 819

Delta R.T. 0.00 min

Lab File: BE091433.D

Acq: 3 Mar 2016 21:34

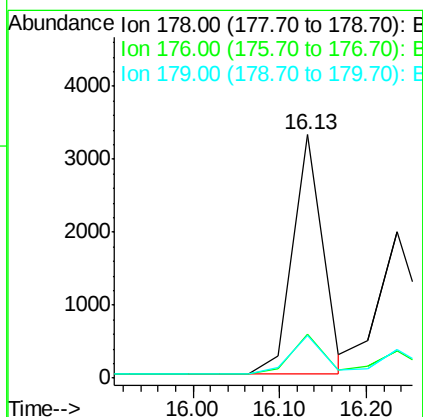
Tgt Ion:178 Resp: 7861

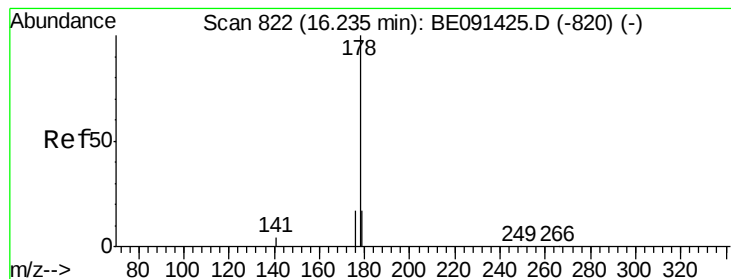
Ion Ratio Lower Upper

178 100

176 17.7 13.8 20.8

179 17.4 14.2 21.4





#17

Anthracene

Concen: 0.25 ng m

RT: 16.24 min Scan# 822

Delta R.T. 0.00 min

Lab File: BE091433.D

Acq: 3 Mar 2016 21:34

Instrument :

BNA_E

ClientSampleId :

MDL-02-S

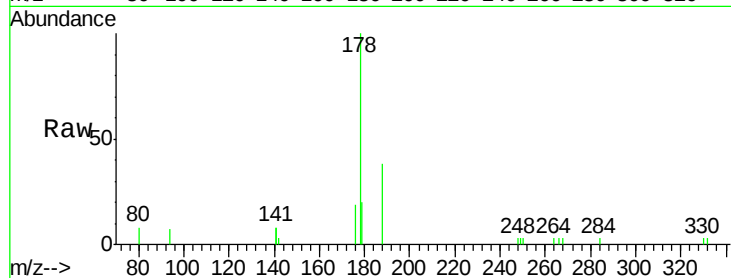
Tgt Ion:178 Resp: 8143

Ion Ratio Lower Upper

178 100

176 8.5 24.4 36.6#

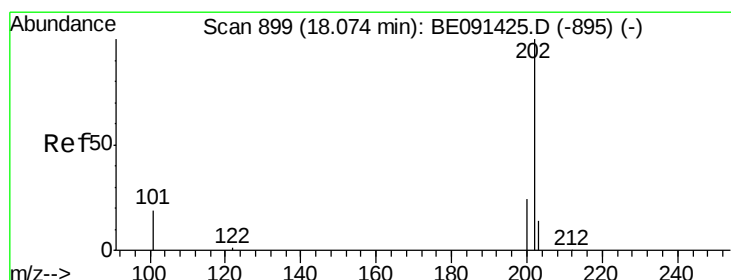
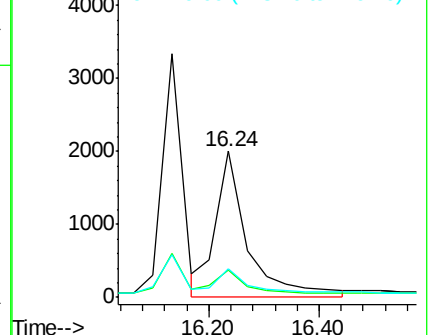
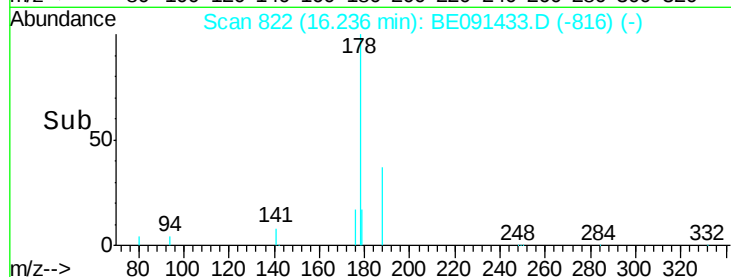
179 8.9 14.8 22.2#



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: 0.21 ng

RT: 18.09 min Scan# 900

Delta R.T. 0.02 min

Lab File: BE091433.D

Acq: 3 Mar 2016 21:34

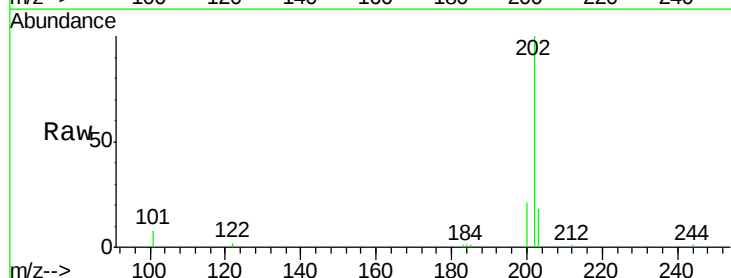
Tgt Ion:202 Resp: 8207

Ion Ratio Lower Upper

202 100

101 12.7 11.0 16.6

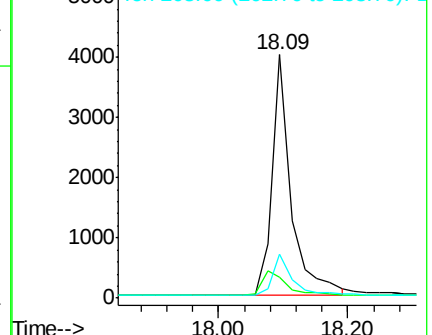
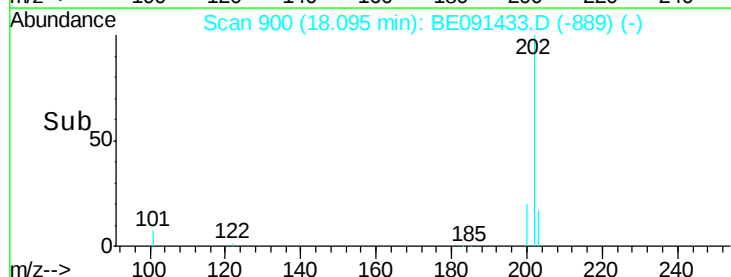
203 17.7 13.7 20.5

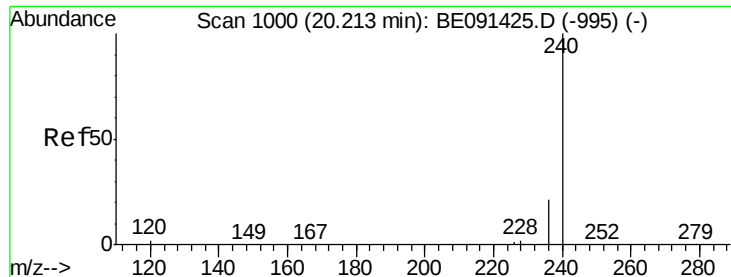


Abundance Ion 202.00 (201.70 to 202.70): E

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: BE091433.D

Acq: 3 Mar 2016 21:34

Instrument :

BNA_E

ClientSampleId :

MDL-02-S

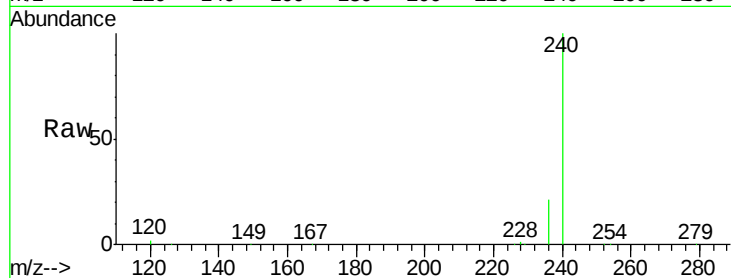
Tgt Ion:240 Resp: 249898

Ion Ratio Lower Upper

240 100

120 2.1 1.4 2.0#

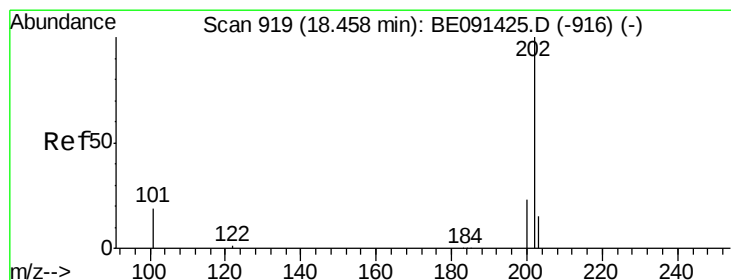
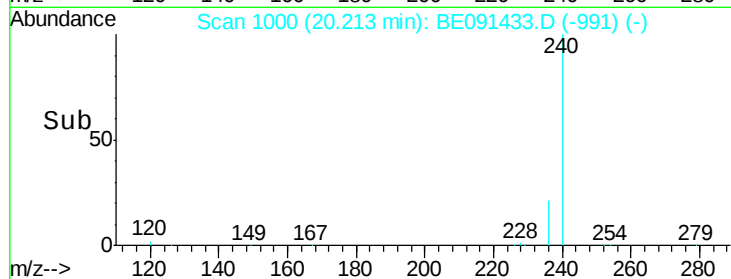
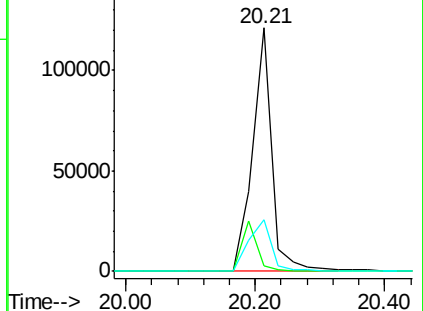
236 21.5 16.7 25.1



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: 0.12 ng

RT: 18.48 min Scan# 920

Delta R.T. 0.02 min

Lab File: BE091433.D

Acq: 3 Mar 2016 21:34

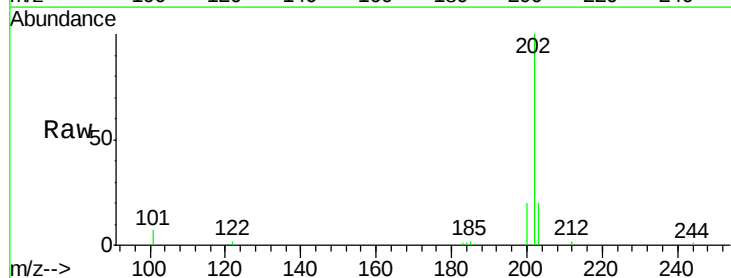
Tgt Ion:202 Resp: 8614

Ion Ratio Lower Upper

202 100

200 20.9 16.5 24.7

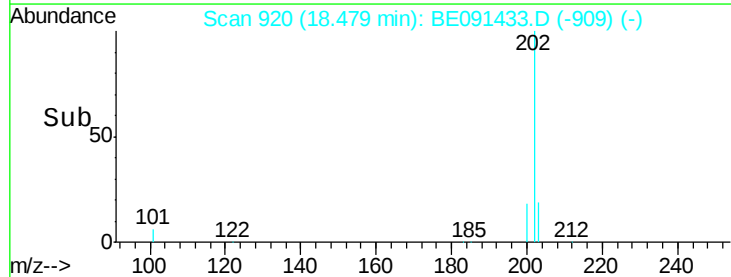
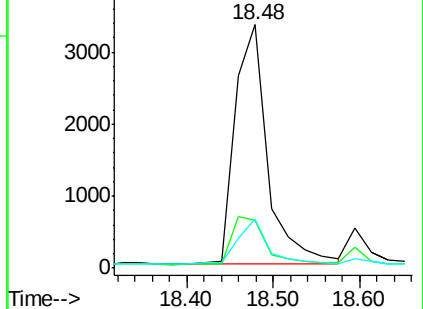
203 17.9 13.8 20.6

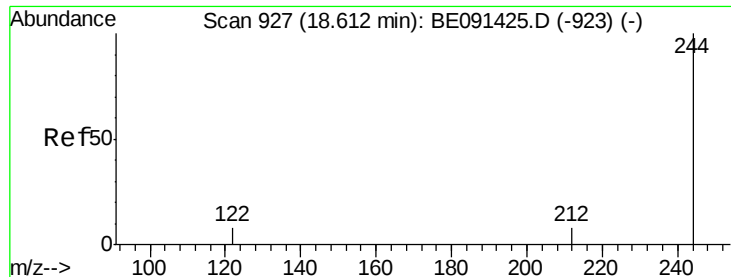


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E

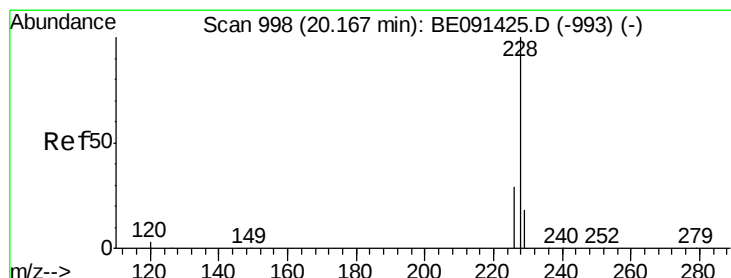
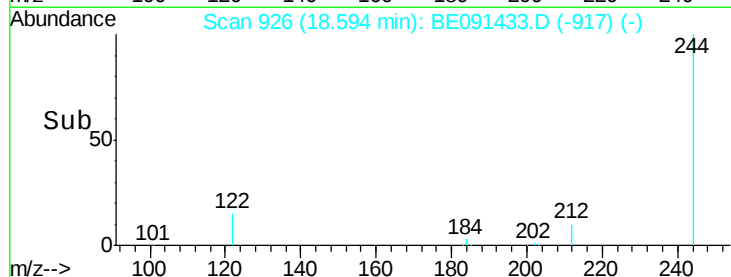
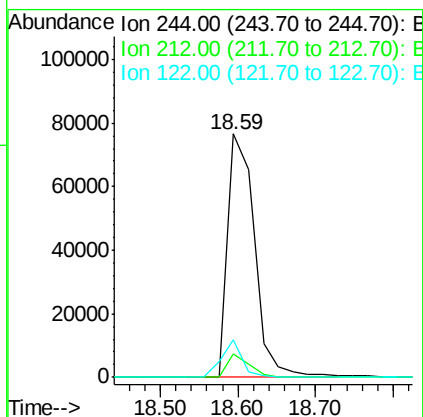
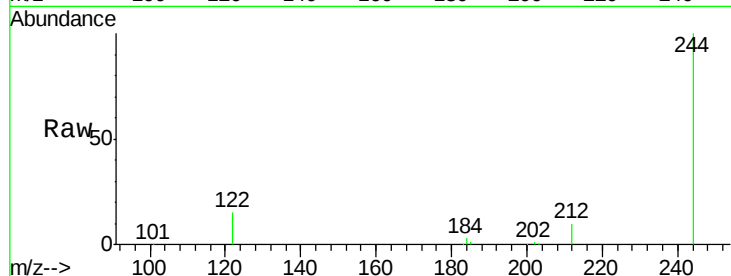




#21
 Terphenyl-d14
 Concen: 4.85 ng
 RT: 18.59 min Scan# 926
 Delta R.T. -0.02 min
 Lab File: BE091433.D
 Acq: 3 Mar 2016 21:34

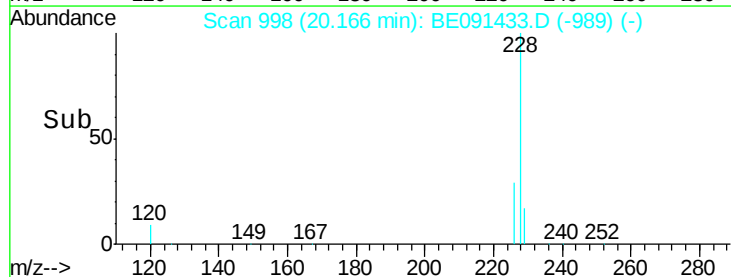
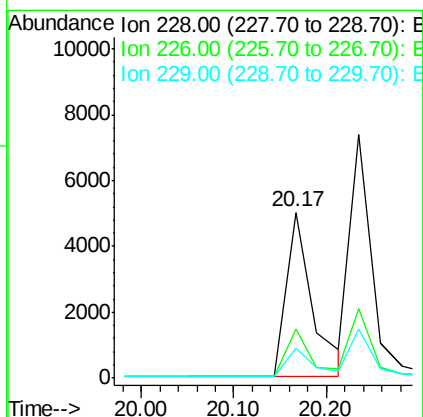
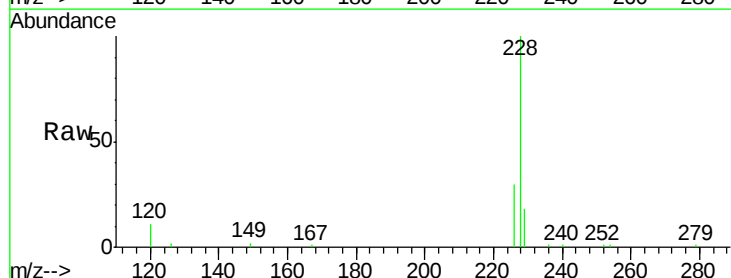
Instrument :
 BNA_E
 ClientSampleId :
 MDL-02-S

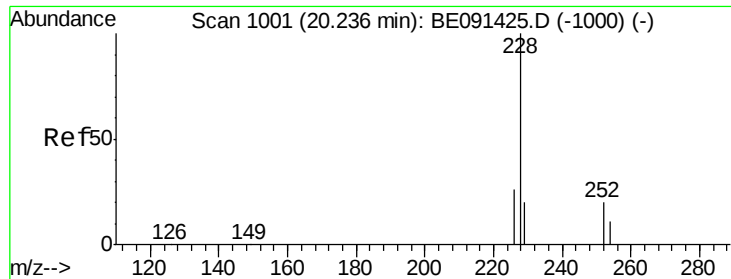
Tgt Ion:244 Resp: 184410
 Ion Ratio Lower Upper
 244 100
 212 9.7 7.0 10.6
 122 15.3 6.8 10.2#



#22
 Benzo(a)anthracene
 Concen: 0.11 ng
 RT: 20.17 min Scan# 998
 Delta R.T. -0.00 min
 Lab File: BE091433.D
 Acq: 3 Mar 2016 21:34

Tgt Ion:228 Resp: 9862
 Ion Ratio Lower Upper
 228 100
 226 29.8 23.1 34.7
 229 18.0 14.5 21.7

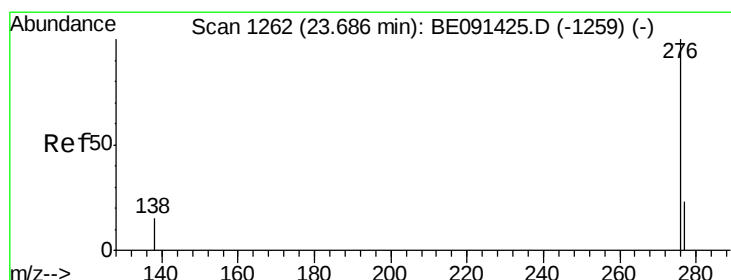
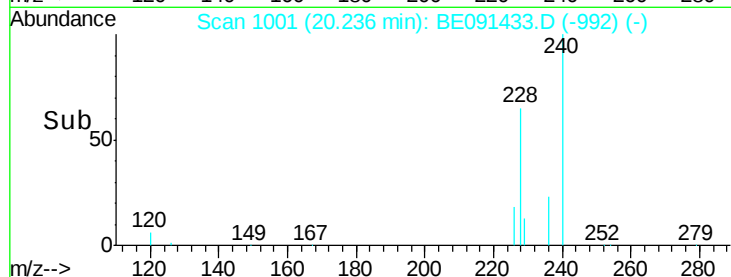
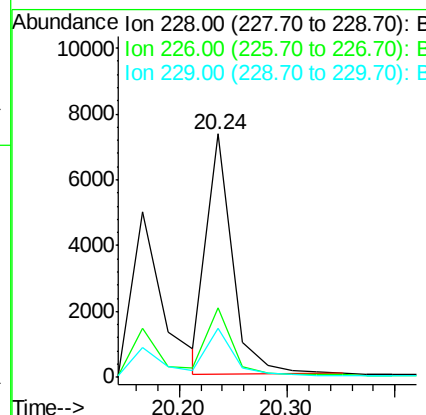
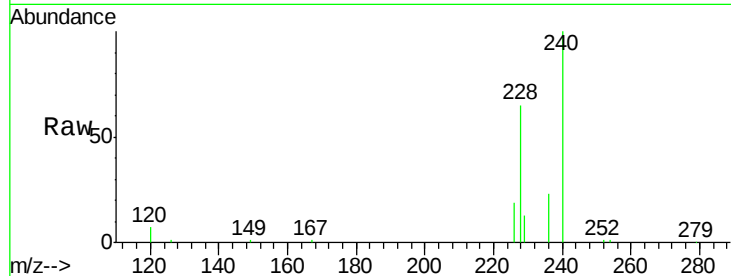




#23
Chrysene
Concen: 0.13 ng
RT: 20.24 min Scan# 1001
Delta R.T. -0.00 min
Lab File: BE091433.D
Acq: 3 Mar 2016 21:34

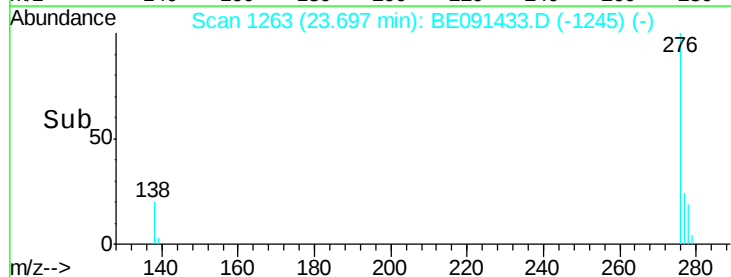
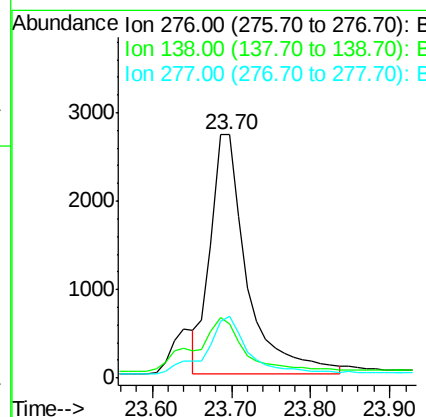
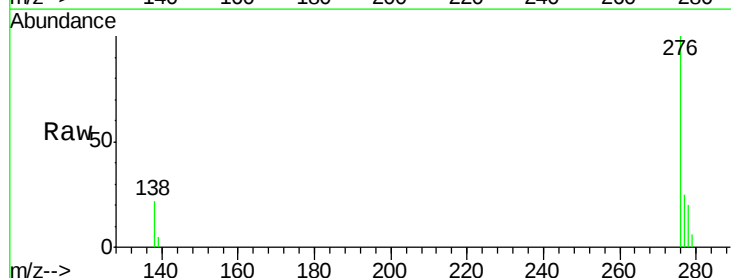
Instrument :
BNA_E
ClientSampleId :
MDL-02-S

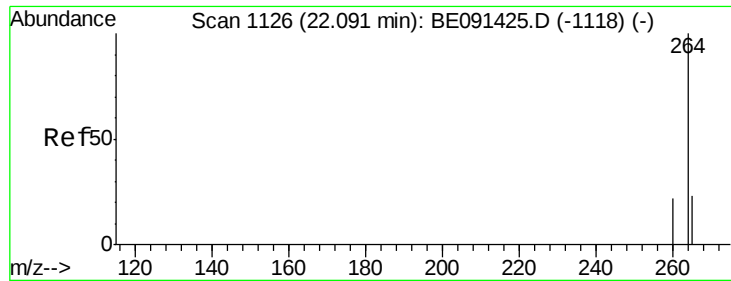
Tgt Ion: 228 Resp: 12025
Ion Ratio Lower Upper
228 100
226 28.8 22.0 33.0
229 20.3 16.2 24.2



#24
Indeno(1,2,3-cd)pyrene
Concen: 0.12 ng m
RT: 23.70 min Scan# 1263
Delta R.T. 0.01 min
Lab File: BE091433.D
Acq: 3 Mar 2016 21:34

Tgt Ion: 276 Resp: 8702
Ion Ratio Lower Upper
276 100
138 30.1 16.1 24.1#
277 27.4 22.9 34.3

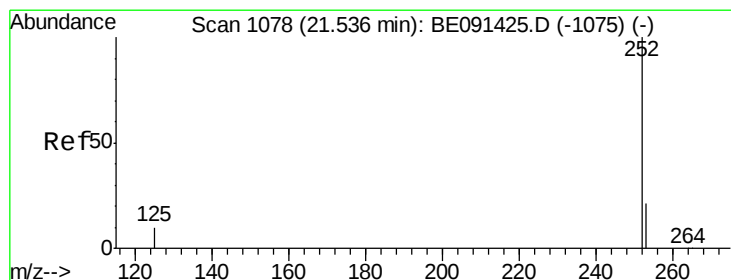
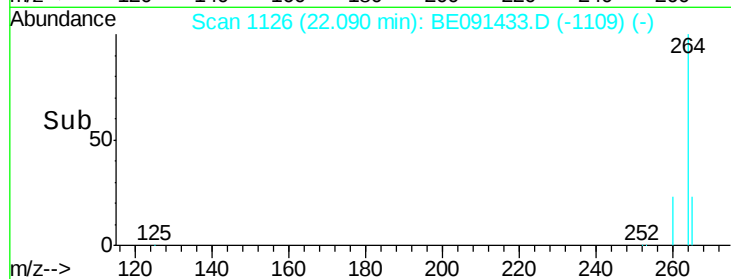
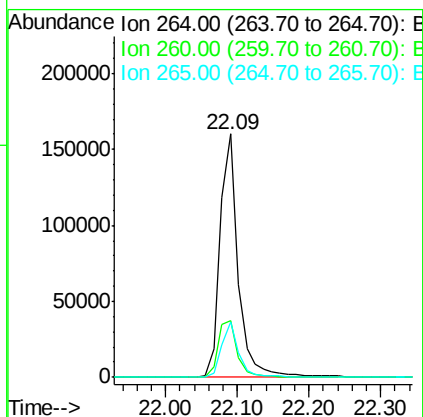
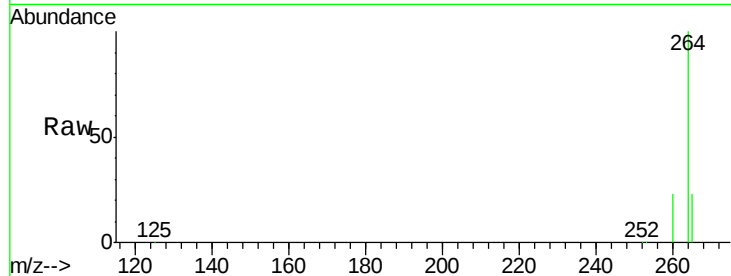




#25
 Perylene-d12
 Concen: 5.00 ng
 RT: 22.09 min Scan# 1126
 Delta R.T. -0.00 min
 Lab File: BE091433.D
 Acq: 3 Mar 2016 21:34

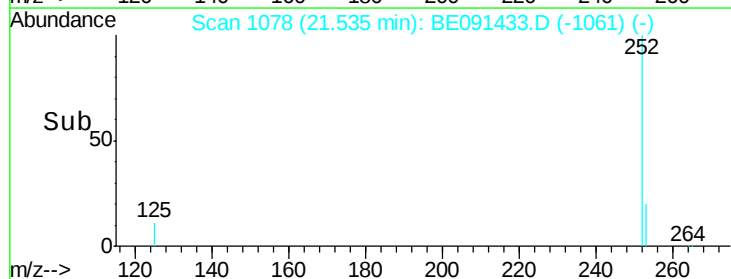
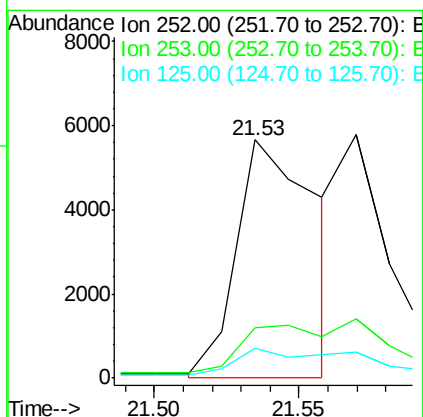
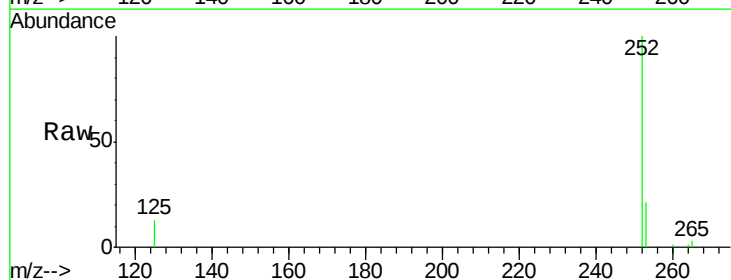
Instrument :
 BNA_E
 ClientSampleId :
 MDL-02-S

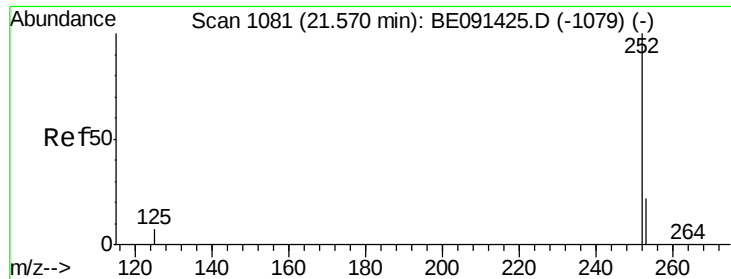
Tgt Ion:264 Resp: 281243
 Ion Ratio Lower Upper
 264 100
 260 23.3 18.0 27.0
 265 22.6 18.2 27.4



#26
 Benzo(b)fluoranthene
 Concen: 0.14 ng m
 RT: 21.53 min Scan# 1078
 Delta R.T. -0.00 min
 Lab File: BE091433.D
 Acq: 3 Mar 2016 21:34

Tgt Ion:252 Resp: 10948
 Ion Ratio Lower Upper
 252 100
 253 21.3 17.0 25.4
 125 12.6 8.3 12.5#





#27

Benzo(k)fluoranthene

Concen: 0.12 ng m

RT: 21.57 min Scan# 1081

Delta R.T. -0.00 min

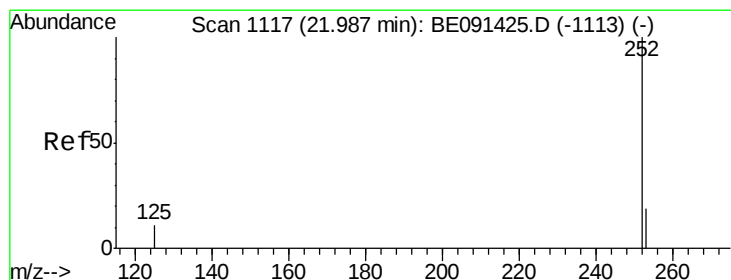
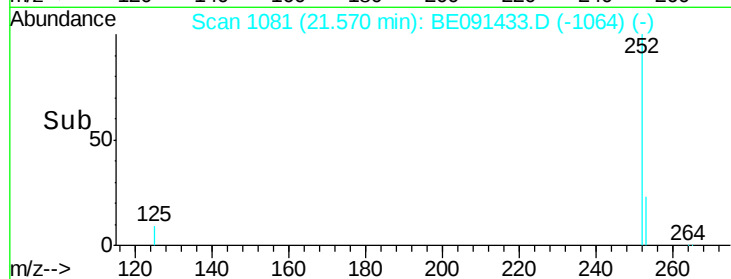
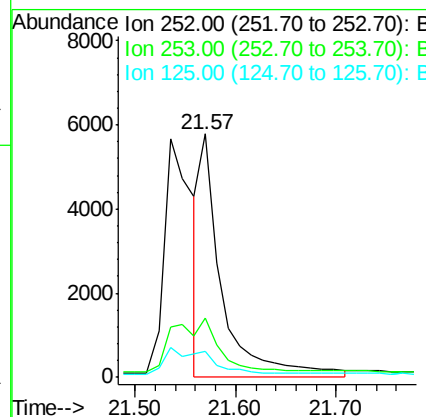
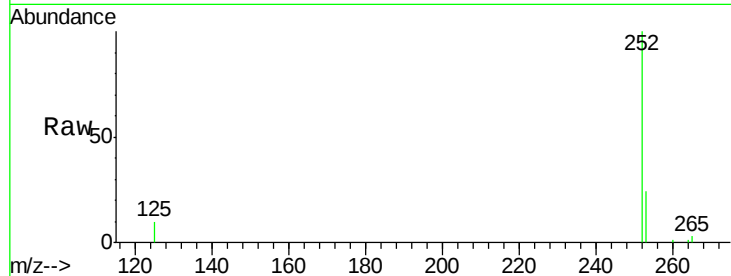
Lab File: BE091433.D

Acq: 3 Mar 2016 21:34

Instrument :
BNA_E
ClientSampleId :
MDL-02-S

Tgt Ion: 252 Resp: 8981

Ion	Ratio	Lower	Upper
252	100		
253	24.3	19.5	29.3
125	10.5	7.3	10.9



#28

Benzo(a)pyrene

Concen: 0.12 ng

RT: 21.99 min Scan# 1117

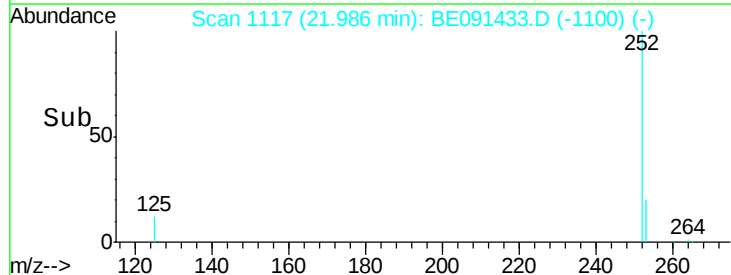
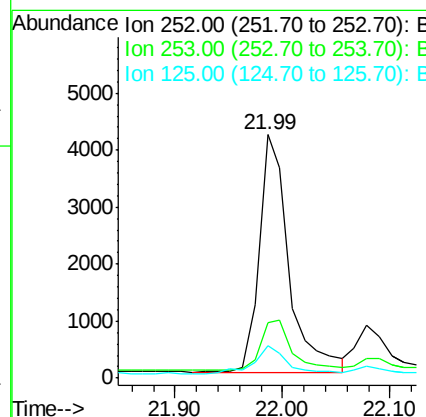
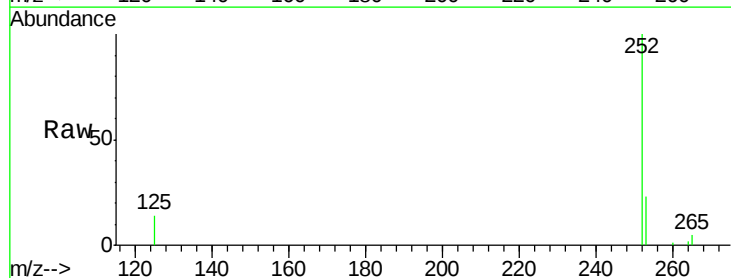
Delta R.T. -0.00 min

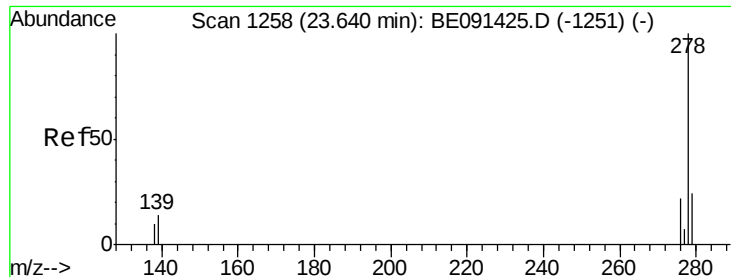
Lab File: BE091433.D

Acq: 3 Mar 2016 21:34

Tgt Ion: 252 Resp: 8057

Ion	Ratio	Lower	Upper
252	100		
253	22.8	16.2	24.4
125	13.6	9.6	14.4





#29

Dibenzo(a,h)anthracene

Concen: 0.12 ng

RT: 23.65 min Scan# 1259

Delta R.T. 0.01 min

Lab File: BE091433.D

Acq: 3 Mar 2016 21:34

Instrument :

BNA_E

ClientSampleId :

MDL-02-S

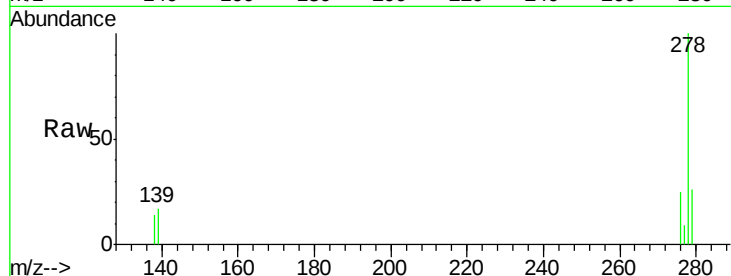
Tgt Ion:278 Resp: 7546

Ion Ratio Lower Upper

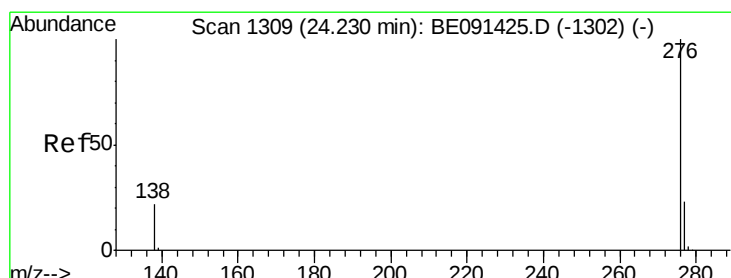
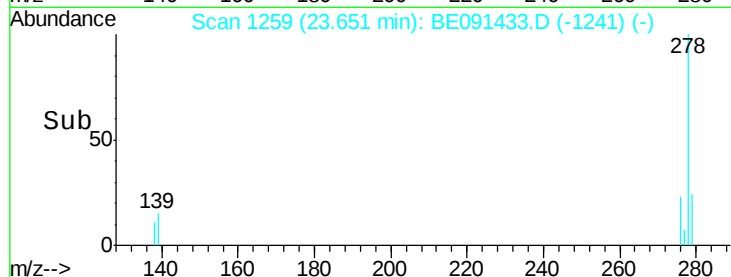
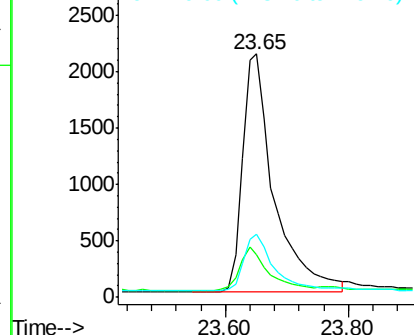
278 100

139 17.3 12.1 18.1

279 25.8 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: 0.12 ng

RT: 24.24 min Scan# 1310

Delta R.T. 0.01 min

Lab File: BE091433.D

Acq: 3 Mar 2016 21:34

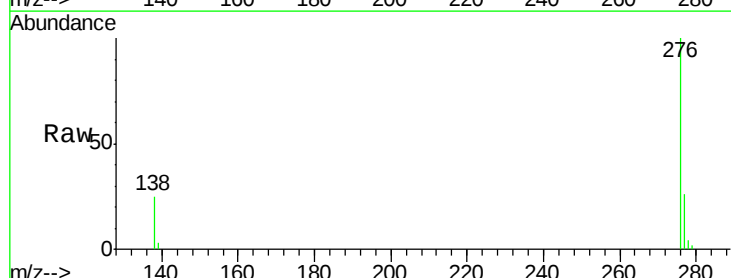
Tgt Ion:276 Resp: 8744

Ion Ratio Lower Upper

276 100

277 26.1 19.0 28.6

138 25.0 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

