

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE030316\
 Data File : BE091428.D
 Acq On : 3 Mar 2016 18:29
 Operator : UM/IZ
 Sample : SSTDICC3.2
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 SSTDICC3.2

Quant Time: Mar 04 06:24:43 2016
 Quant Method : Z:\HPCHEM1\BNA_E\METHODS\SIM-BE030316.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Mar 04 03:11:46 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.85	152	32319	5.00	ng	-0.02
4) Naphthalene-d8	9.51	136	157494	5.00	ng	-0.02
8) Acenaphthene-d10	13.34	164	85992	5.00	ng	0.00
13) Phenanthrene-d10	16.06	188	97815	5.00	ng	-0.03
19) Chrysene-d12	20.19	240	240429	5.00	ng	-0.02
25) Perylene-d12	22.09	264	286905	5.00	ng	0.00

System Monitoring Compounds						
5) Nitrobenzene-d5	8.12	82	31345	3.61	ng	-0.06
9) 2-Fluorobiphenyl	11.98	172	77154	3.46	ng	-0.02
21) Terphenyl-d14	18.59	244	129005	3.57	ng	-0.02

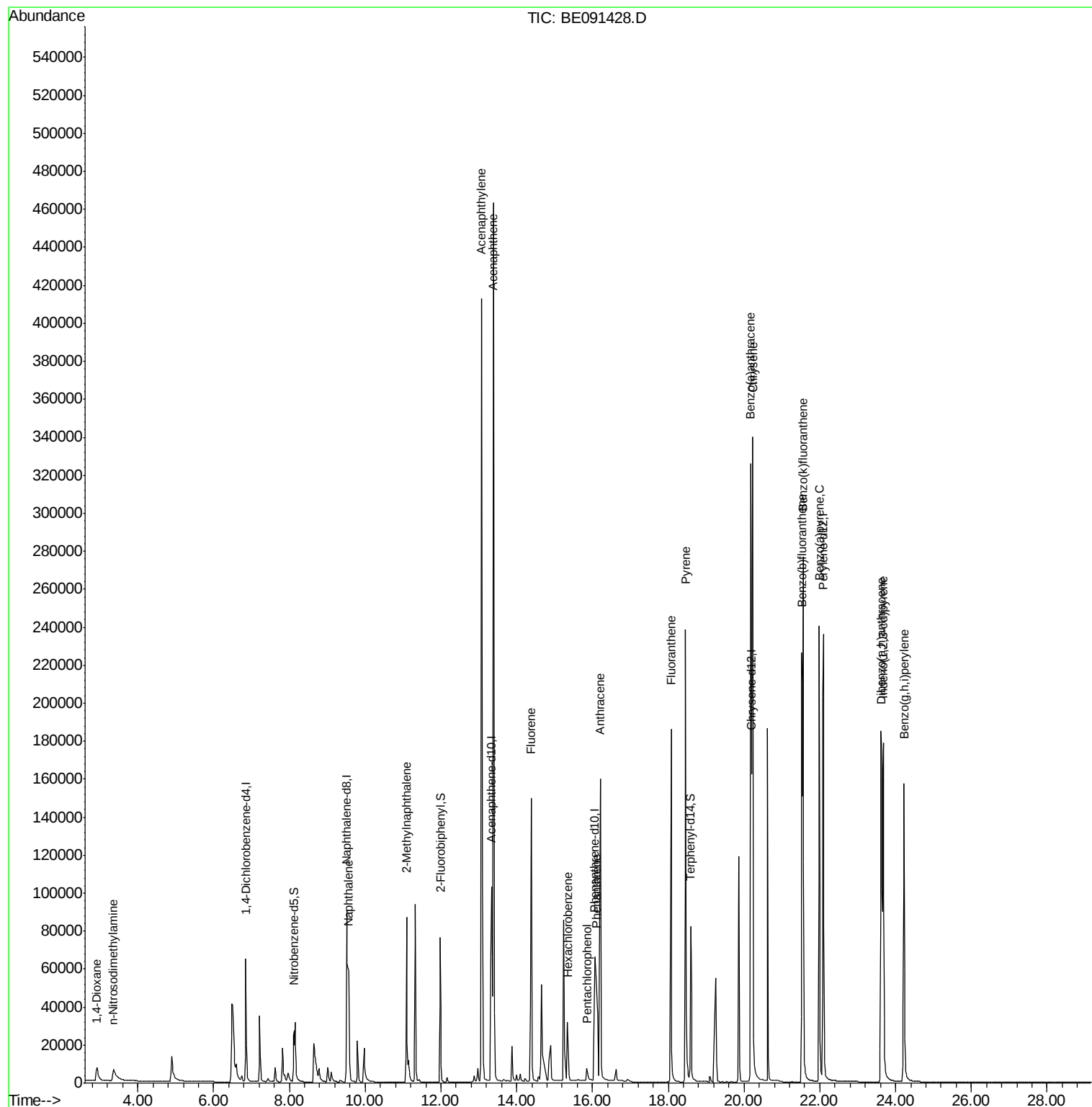
Target Compounds				Qvalue		
2) 1,4-Dioxane	2.92	88	10220	1.91	ng	88
3) n-Nitrosodimethylamine	3.35	42	19719m	44.01	ng	
6) Naphthalene	9.57	128	116761	3.47	ng	96
7) 2-Methylnaphthalene	11.09	142	75279	3.73	ng	98
10) Acenaphthylene	13.06	152	604447	5.28	ng	99
11) Acenaphthene	13.38	154	93428	4.39	ng	# 100
12) Fluorene	14.39	166	121403	4.33	ng	94
14) Hexachlorobenzene	15.34	284	19235	4.28	ng	# 100
15) Pentachlorophenol	15.86	266	8443	19.49	ng	# 75
16) Phenanthrene	16.10	178	105844m	4.24	ng	
17) Anthracene	16.20	178	260151m	11.62	ng	
18) Fluoranthene	18.07	202	225035	9.06	ng	98
20) Pyrene	18.46	202	249324	4.53	ng	99
22) Benzo(a)anthracene	20.17	228	324317m	6.54	ng	
23) Chrysene	20.24	228	286773m	4.26	ng	
24) Indeno(1,2,3-cd)pyrene	23.67	276	256431m	5.35	ng	
26) Benzo(b)fluoranthene	21.52	252	328218m	5.54	ng	
27) Benzo(k)fluoranthene	21.56	252	235501m	3.35	ng	
28) Benzo(a)pyrene	21.99	252	266792	4.91	ng	96
29) Dibenzo(a,h)anthracene	23.63	278	248336	5.46	ng	97
30) Benzo(g,h,i)perylene	24.22	276	254167	4.35	ng	99

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

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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 6.85 min Scan# 245

Delta R.T. -0.02 min

Lab File: BE091428.D

Acq: 3 Mar 2016 18:29

Instrument :

BNA_E

ClientSampleId :

SSTDICC3.2

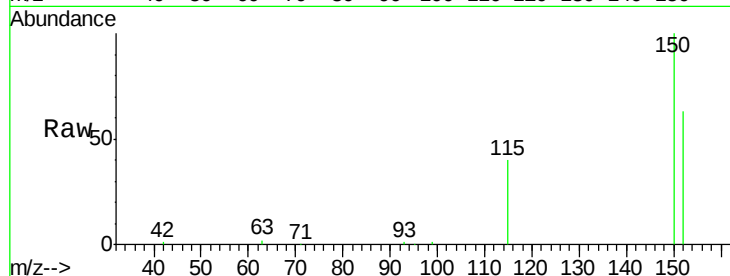
Tgt Ion:152 Resp: 32319

Ion Ratio Lower Upper

152 100

150 157.9 115.0 172.4

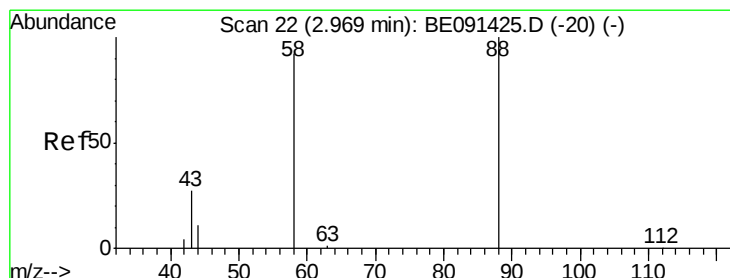
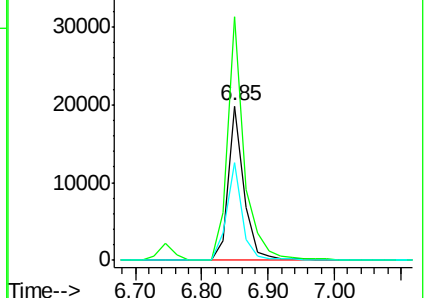
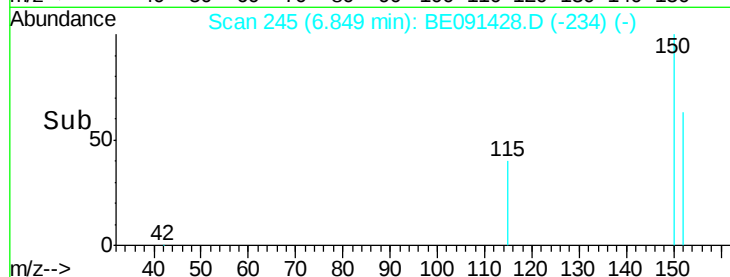
115 63.3 42.2 63.4



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: 1.91 ng

RT: 2.92 min Scan# 19

Delta R.T. -0.05 min

Lab File: BE091428.D

Acq: 3 Mar 2016 18:29

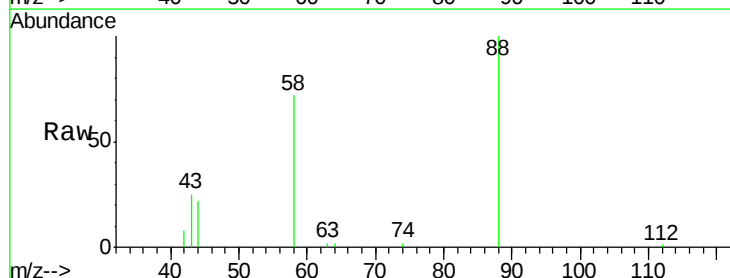
Tgt Ion: 88 Resp: 10220

Ion Ratio Lower Upper

88 100

58 104.9 96.9 145.3

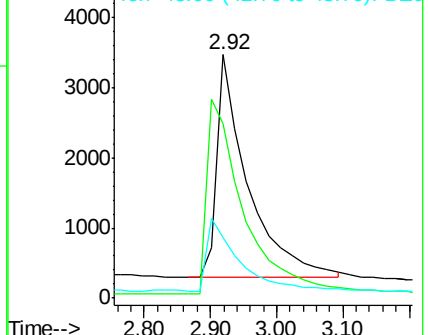
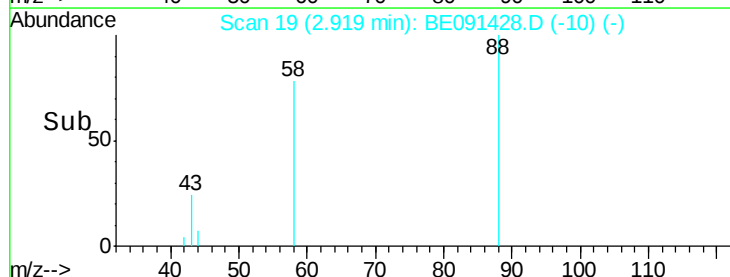
43 33.7 29.3 43.9

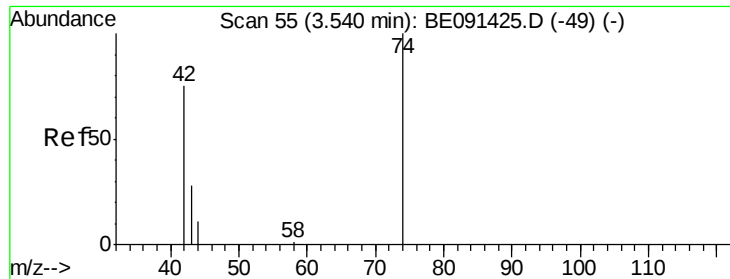


Abundance Ion 88.00 (87.70 to 88.70): BE0

Ion 58.00 (57.70 to 58.70): BE0

Ion 43.00 (42.70 to 43.70): BE0





#3

n-Nitrosodimethylamine

Concen: 44.01 ng m

RT: 3.35 min Scan# 44

Delta R.T. -0.19 min

Lab File: BE091428.D

Acq: 3 Mar 2016 18:29

Instrument :

BNA_E

ClientSampleId :

SSTDICC3.2

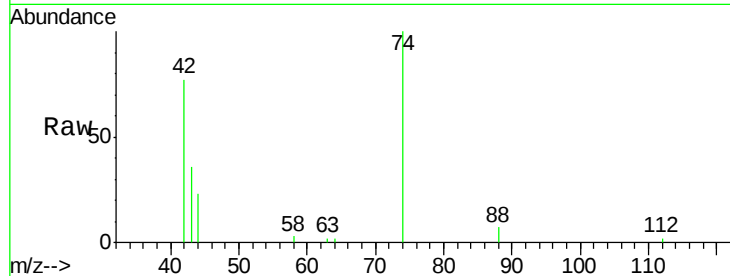
Tgt Ion: 42 Resp: 19719

Ion Ratio Lower Upper

42 100

74 0.0 96.6 144.8#

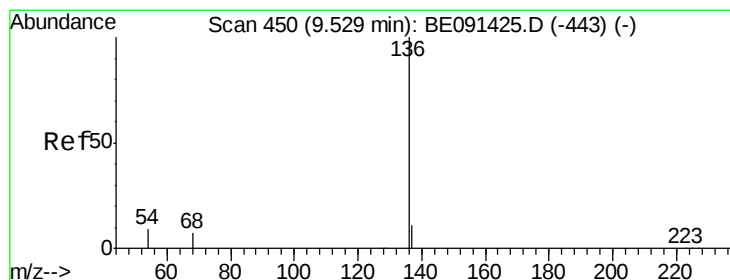
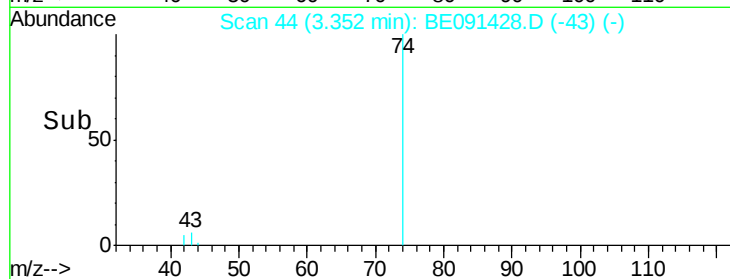
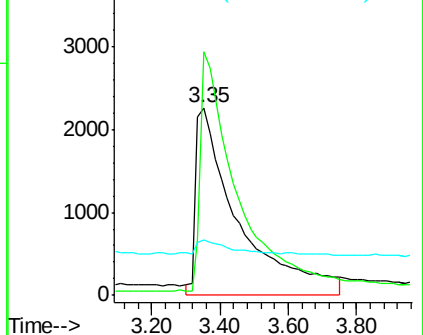
44 0.0 0.0 0.0



Abundance Ion 42.00 (41.70 to 42.70): BE0

Ion 74.00 (73.70 to 74.70): BE0

Ion 44.00 (43.70 to 44.70): BE0



#4

Naphthalene-d8

Concen: 5.00 ng

RT: 9.51 min Scan# 449

Delta R.T. -0.02 min

Lab File: BE091428.D

Acq: 3 Mar 2016 18:29

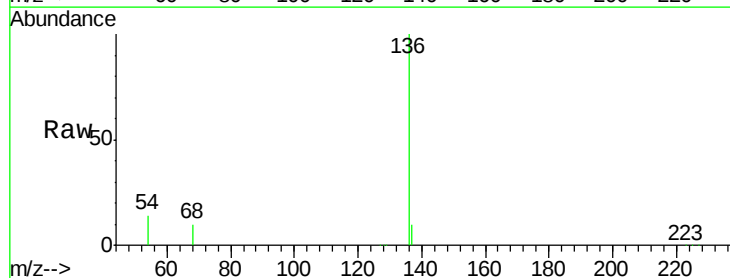
Tgt Ion: 136 Resp: 157494

Ion Ratio Lower Upper

136 100

137 9.6 8.7 13.1

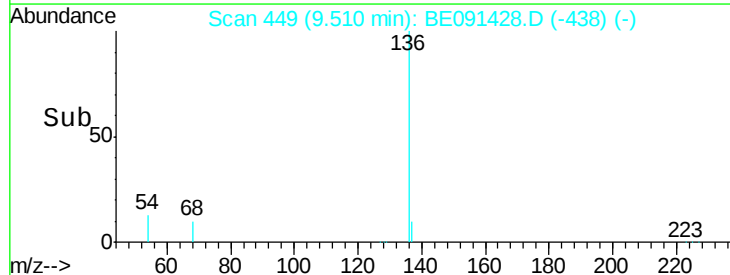
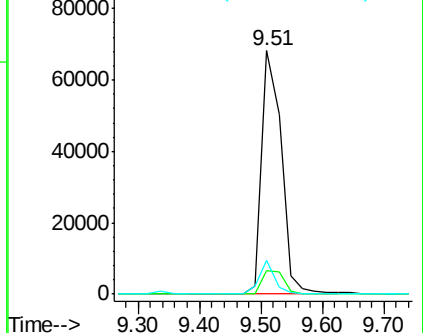
54 13.9 6.9 10.3#

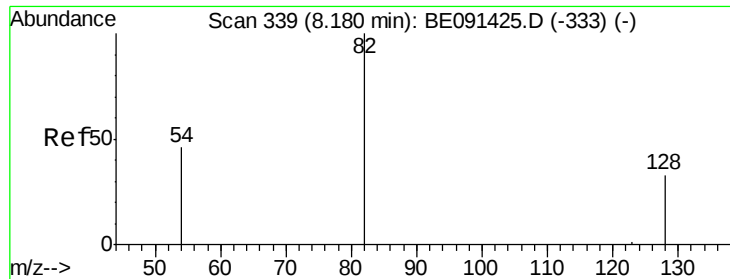


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BE0





#5

Nitrobenzene-d5

Concen: 3.61 ng

RT: 8.12 min Scan# 334

Delta R.T. -0.06 min

Lab File: BE091428.D

Acq: 3 Mar 2016 18:29

Instrument :

BNA_E

ClientSampleId :

SSTDICC3.2

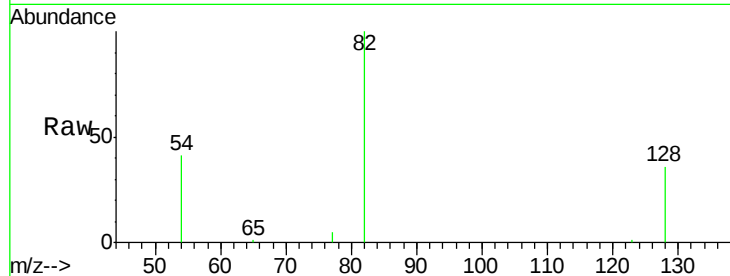
Tgt Ion: 82 Resp: 31345

Ion Ratio Lower Upper

82 100

128 36.4 30.0 45.0

54 41.2 41.5 62.3#



Abundance Ion 82.00 (81.70 to 82.70): BE091428.D (-333) (-)

Ion 128.00 (127.70 to 128.70): BE091428.D (-333) (-)

Ion 54.00 (53.70 to 54.70): BE091428.D (-333) (-)

8.12

15000

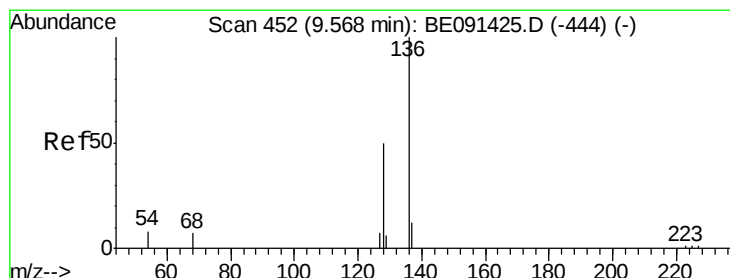
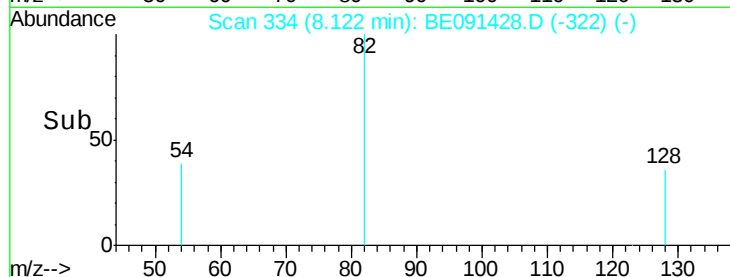
10000

5000

0

8.00 8.10 8.20 8.30 8.40

Time-->



#6

Naphthalene

Concen: 3.47 ng

RT: 9.57 min Scan# 452

Delta R.T. -0.00 min

Lab File: BE091428.D

Acq: 3 Mar 2016 18:29

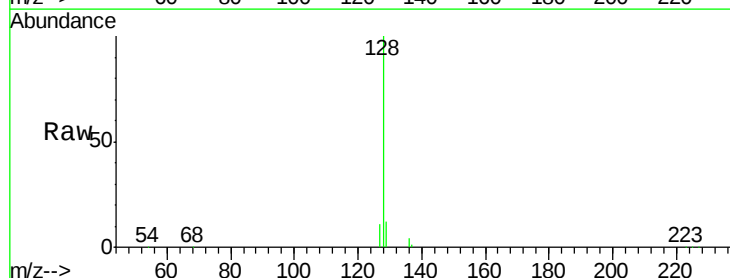
Tgt Ion: 128 Resp: 116761

Ion Ratio Lower Upper

128 100

129 12.0 9.5 14.3

127 11.4 11.4 17.0



Abundance Ion 128.00 (127.70 to 128.70): BE091428.D (-442) (-)

Ion 129.00 (128.70 to 129.70): BE091428.D (-442) (-)

Ion 127.00 (126.70 to 127.70): BE091428.D (-442) (-)

9.57

60000

50000

40000

30000

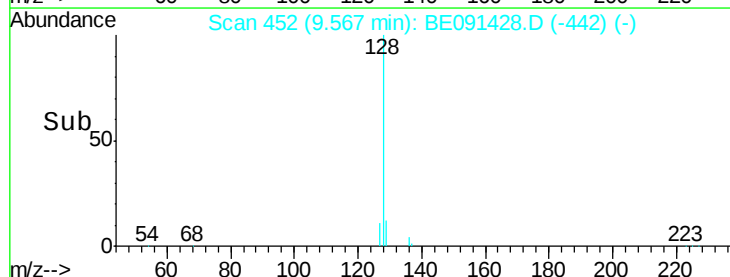
20000

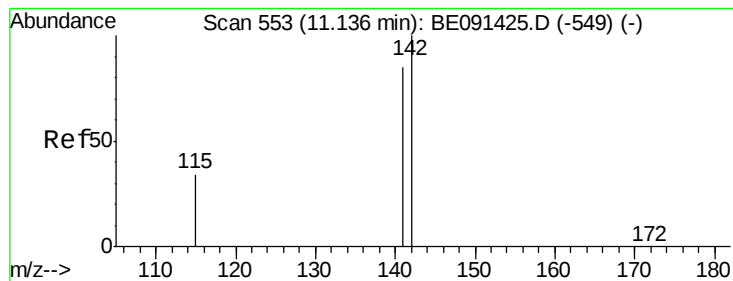
10000

0

9.50 9.60 9.70

Time-->





#7

2-Methylnaphthalene

Concen: 3.73 ng

RT: 11.09 min Scan# 549

Delta R.T. -0.05 min

Lab File: BE091428.D

Acq: 3 Mar 2016 18:29

Instrument :

BNA_E

ClientSampleId :

SSTDICC3.2

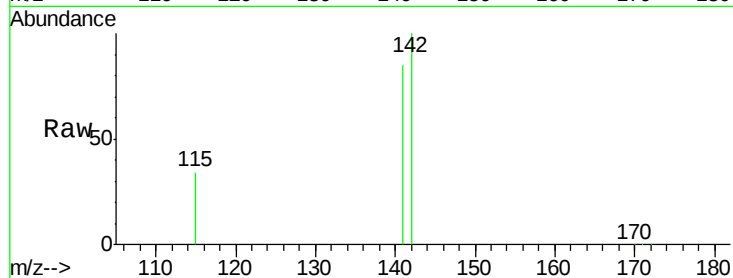
Tgt Ion:142 Resp: 75279

Ion Ratio Lower Upper

142 100

141 85.0 68.3 102.5

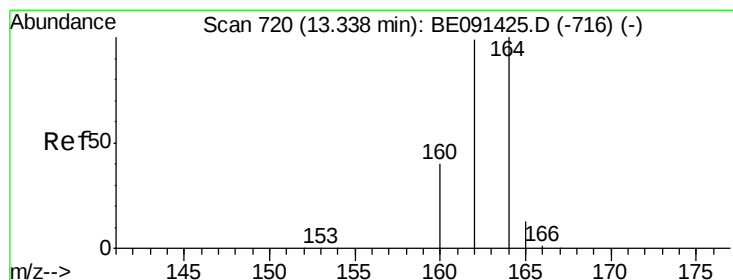
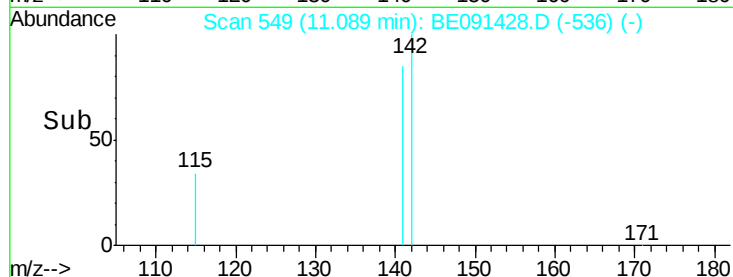
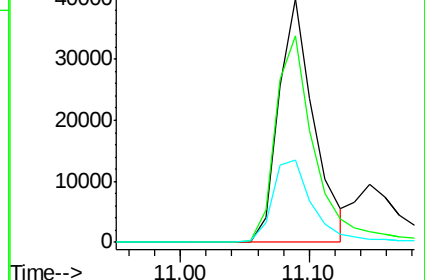
115 33.6 28.9 43.3



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: BE091428.D

Acq: 3 Mar 2016 18:29

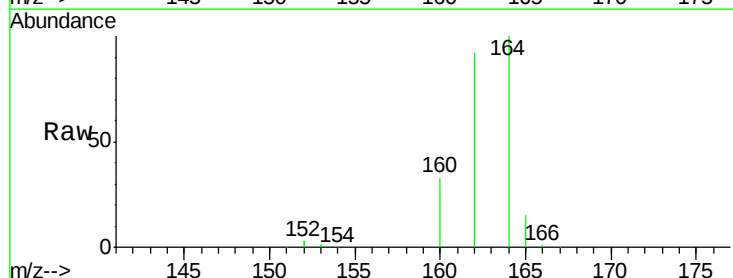
Tgt Ion:164 Resp: 85992

Ion Ratio Lower Upper

164 100

162 91.7 79.1 118.7

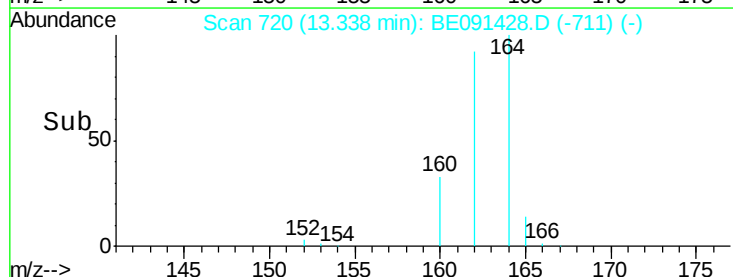
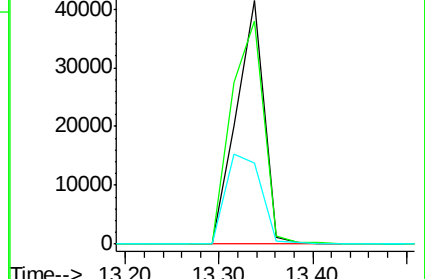
160 33.2 32.4 48.6

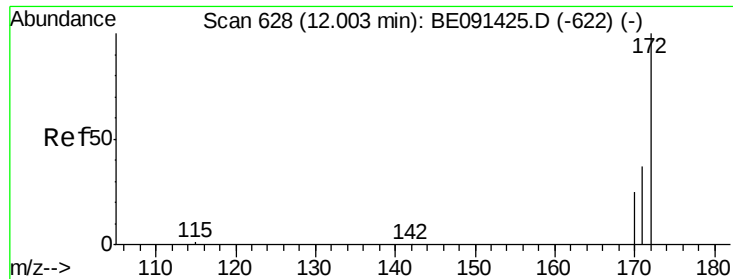


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E





#9

2-Fluorobiphenyl

Concen: 3.46 ng

RT: 11.98 min Scan# 626

Delta R.T. -0.02 min

Lab File: BE091428.D

Acq: 3 Mar 2016 18:29

Instrument :

BNA_E

ClientSampleId :

SSTDICC3.2

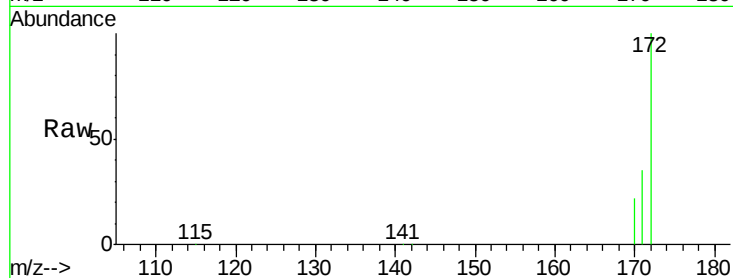
Tgt Ion:172 Resp: 77154

Ion Ratio Lower Upper

172 100

171 34.7 30.2 45.4

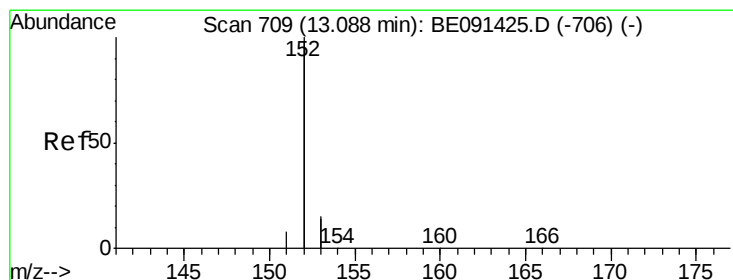
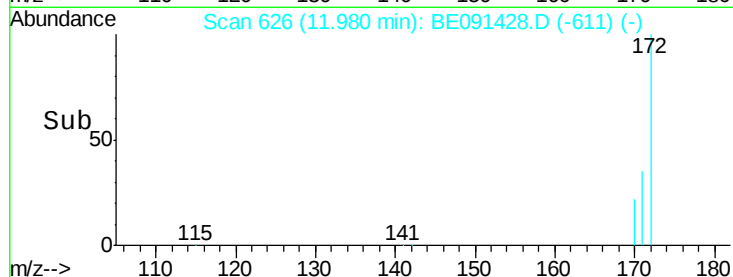
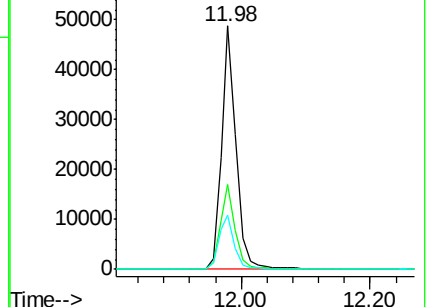
170 22.1 20.9 31.3



Abundance Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E



#10

Acenaphthylene

Concen: 5.28 ng

RT: 13.06 min Scan# 708

Delta R.T. -0.02 min

Lab File: BE091428.D

Acq: 3 Mar 2016 18:29

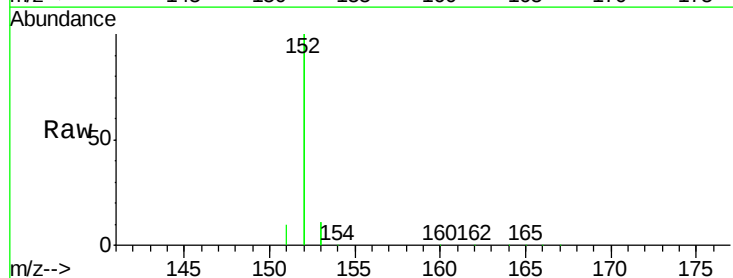
Tgt Ion:152 Resp: 604447

Ion Ratio Lower Upper

152 100

151 4.9 3.9 5.9

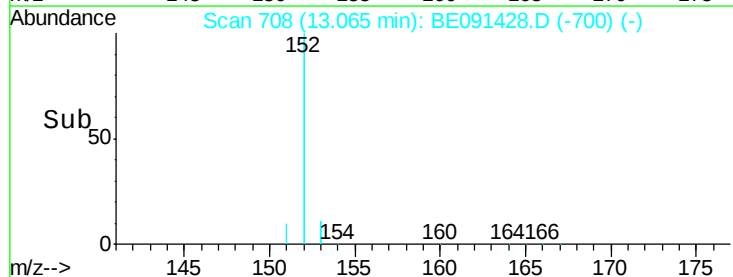
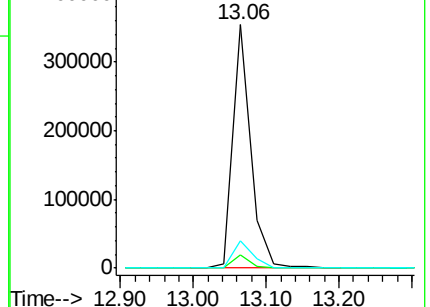
153 12.4 10.5 15.7

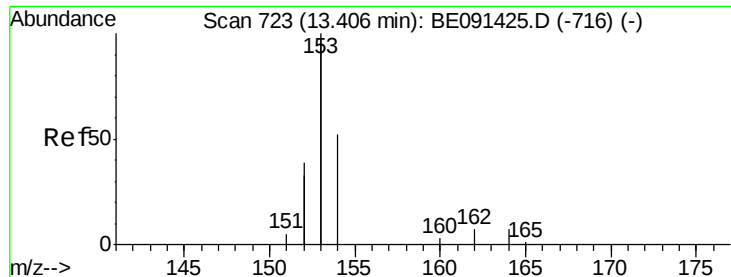


Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E





#11

Acenaphthene

Concen: 4.39 ng

RT: 13.38 min Scan# 722

Delta R.T. -0.02 min

Lab File: BE091428.D

Acq: 3 Mar 2016 18:29

Instrument :

BNA_E

ClientSampleId :

SSTDICC3.2

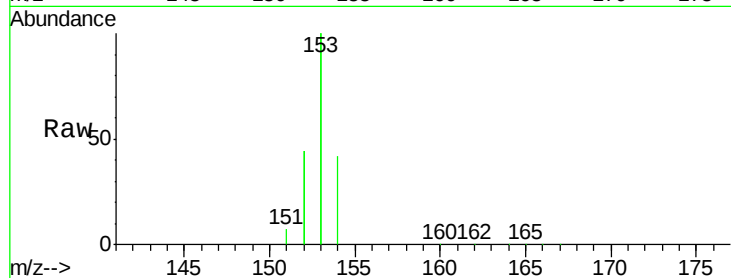
Tgt Ion:154 Resp: 93428

Ion Ratio Lower Upper

154 100

153 460.1 0.0 0.0#

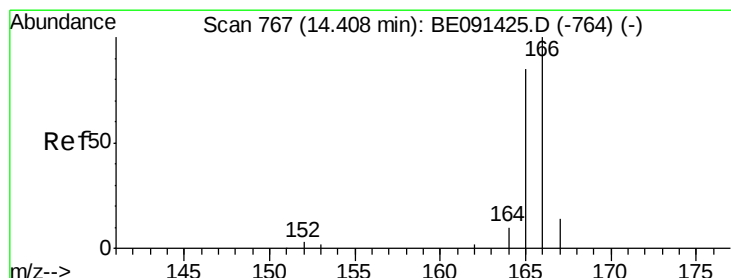
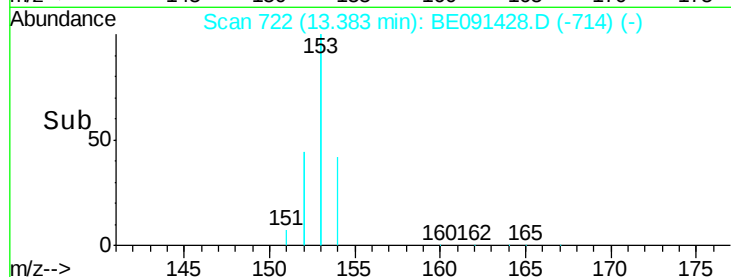
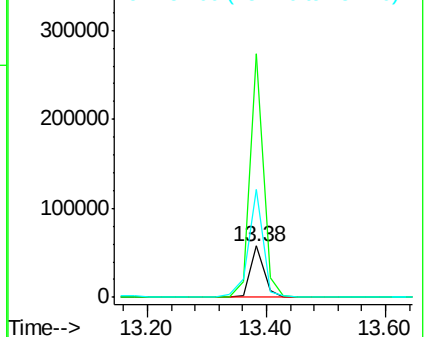
152 219.9 0.0 0.0#



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: 4.33 ng

RT: 14.39 min Scan# 766

Delta R.T. -0.02 min

Lab File: BE091428.D

Acq: 3 Mar 2016 18:29

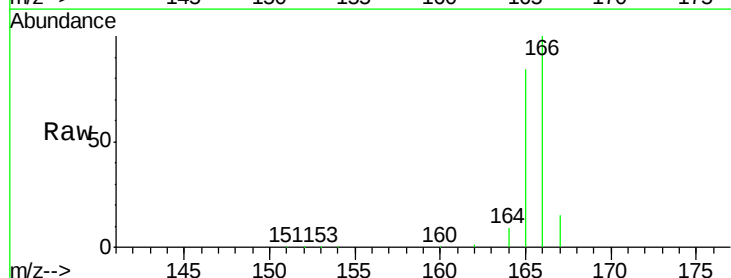
Tgt Ion:166 Resp: 121403

Ion Ratio Lower Upper

166 100

165 93.2 79.4 119.2

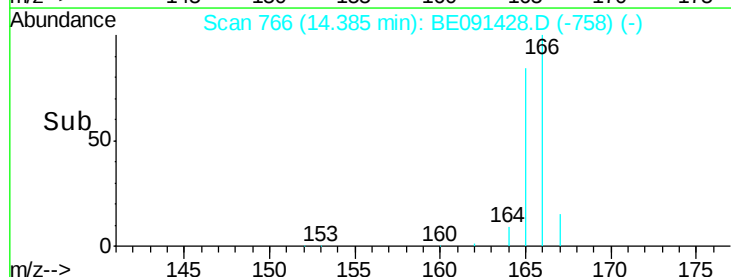
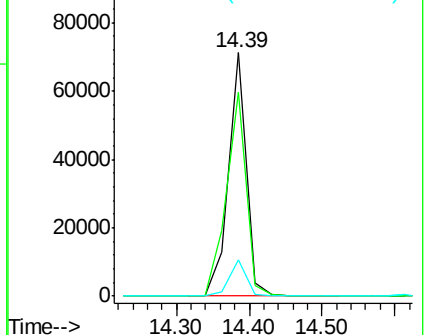
167 14.0 10.7 16.1

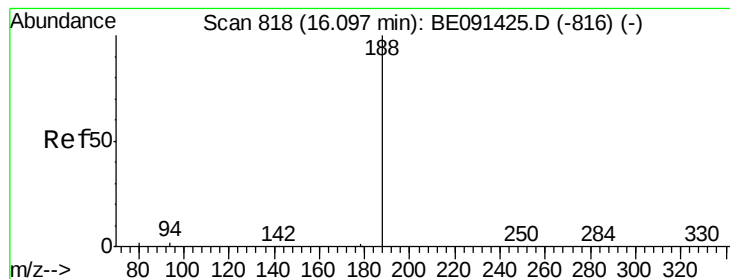


Abundance Ion 166.00 (165.70 to 166.70): E

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: 16.06 min Scan# 817

Delta R.T. -0.03 min

Lab File: BE091428.D

Acq: 3 Mar 2016 18:29

Instrument :

BNA_E

ClientSampleId :

SSTDICC3.2

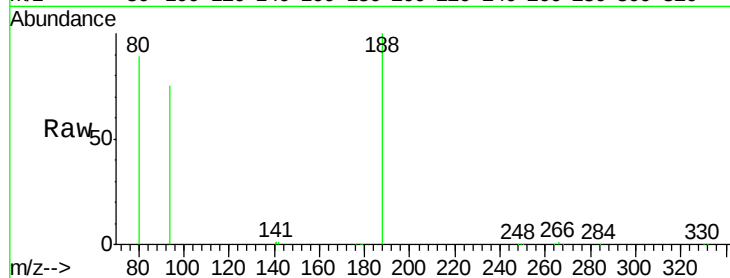
Tgt Ion:188 Resp: 97815

Ion Ratio Lower Upper

188 100

94 75.3 2.1 3.1#

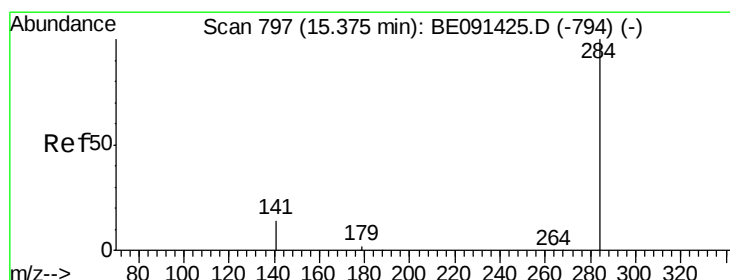
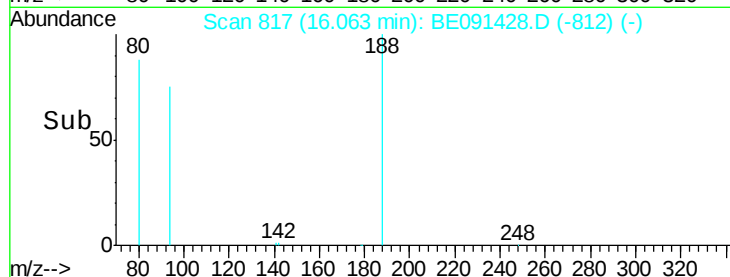
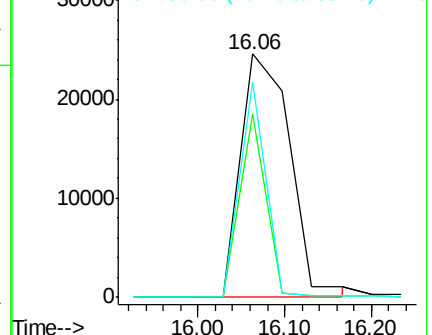
80 88.5 1.9 2.9#



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: 4.28 ng

RT: 15.34 min Scan# 796

Delta R.T. -0.03 min

Lab File: BE091428.D

Acq: 3 Mar 2016 18:29

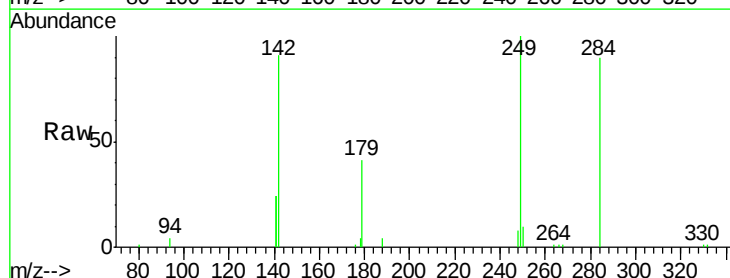
Tgt Ion:284 Resp: 19235

Ion Ratio Lower Upper

284 100

142 102.1 0.0 0.0#

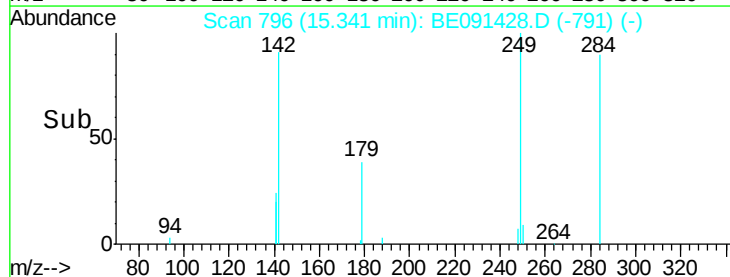
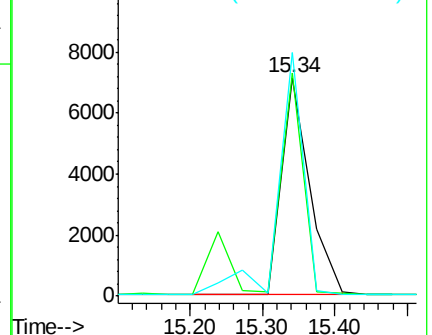
249 99.9 0.0 0.0#

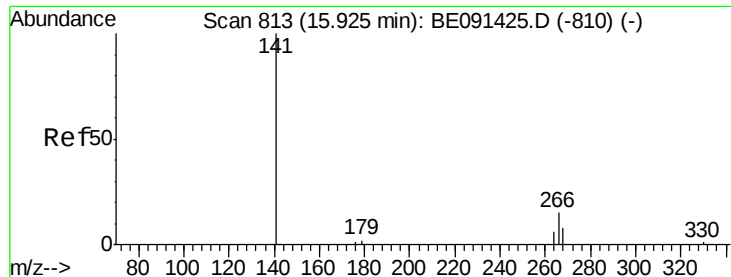


Abundance Ion 283.80 (283.50 to 284.50): E

Ion 142.00 (141.70 to 142.70): E

Ion 249.00 (248.70 to 249.70): E





#15

Pentachlorophenol

Concen: 19.49 ng

RT: 15.86 min Scan# 811

Delta R.T. -0.07 min

Lab File: BE091428.D

Acq: 3 Mar 2016 18:29

Instrument :

BNA_E

ClientSampleId :

SSTDICC3.2

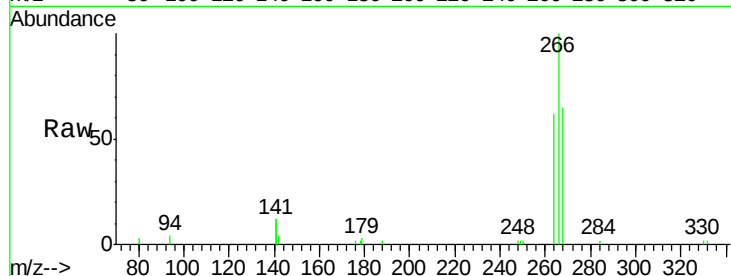
Tgt Ion:266 Resp: 8443

Ion Ratio Lower Upper

266 100

268 65.0 73.0 109.6#

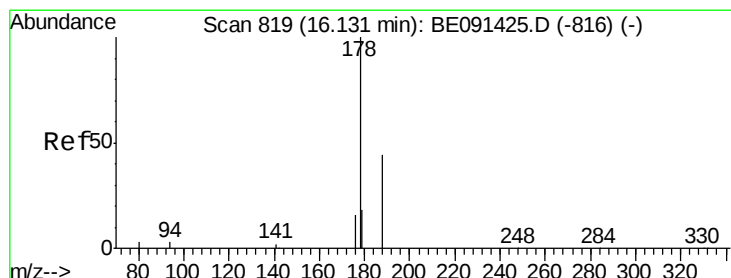
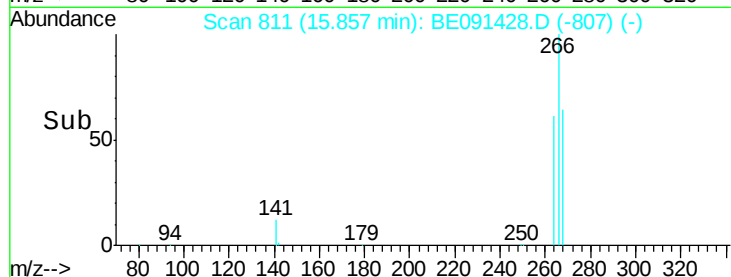
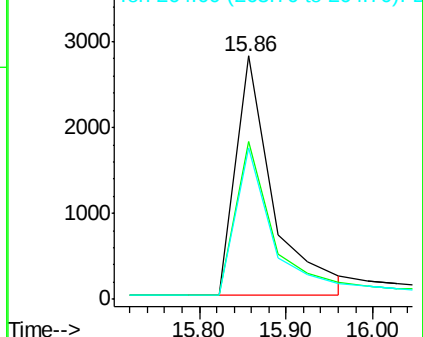
264 62.1 66.1 99.1#



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: 4.24 ng m

RT: 16.10 min Scan# 818

Delta R.T. -0.03 min

Lab File: BE091428.D

Acq: 3 Mar 2016 18:29

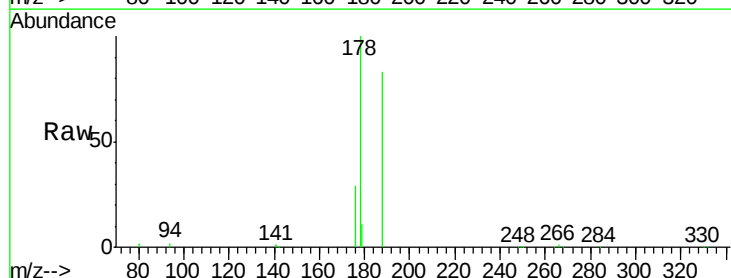
Tgt Ion:178 Resp: 105844

Ion Ratio Lower Upper

178 100

176 0.0 13.8 20.8#

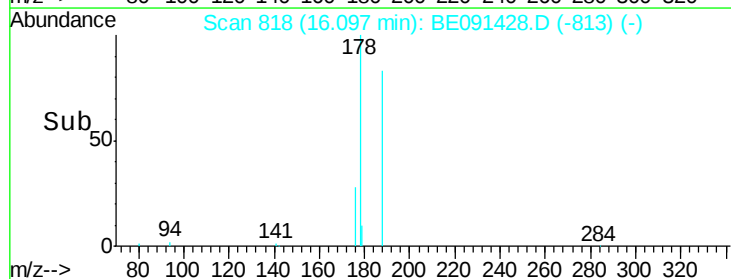
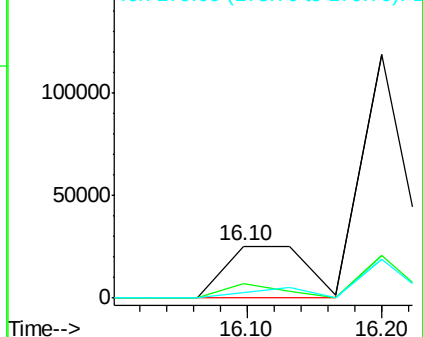
179 0.0 14.2 21.4#

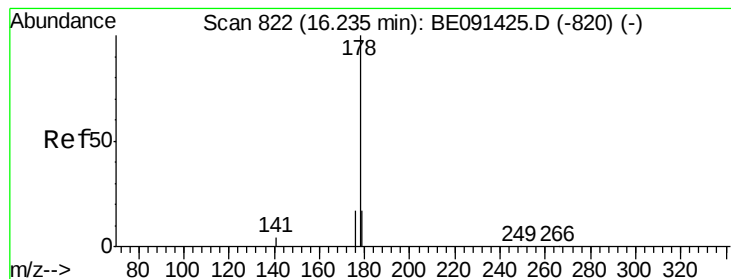


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#17

Anthracene

Concen: 11.62 ng m

RT: 16.20 min Scan# 821

Delta R.T. -0.03 min

Lab File: BE091428.D

Acq: 3 Mar 2016 18:29

Instrument :

BNA_E

ClientSampleId :

SSTDICC3.2

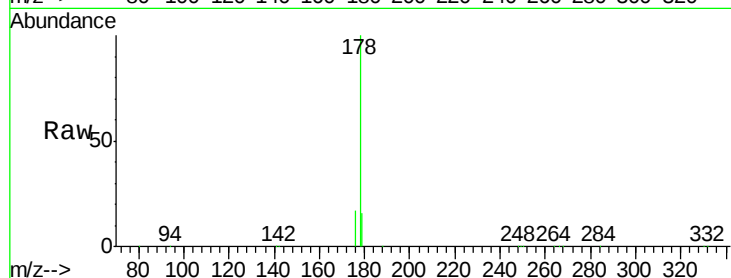
Tgt Ion:178 Resp: 260151

Ion Ratio Lower Upper

178 100

176 25.9 23.5 35.3

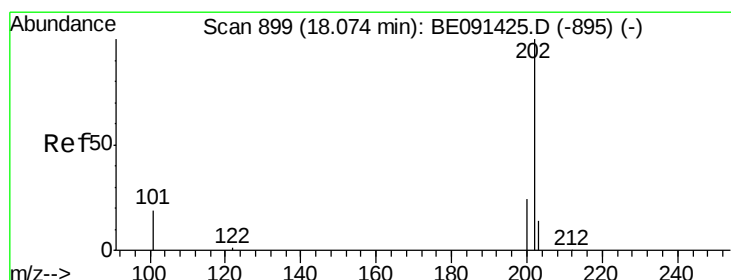
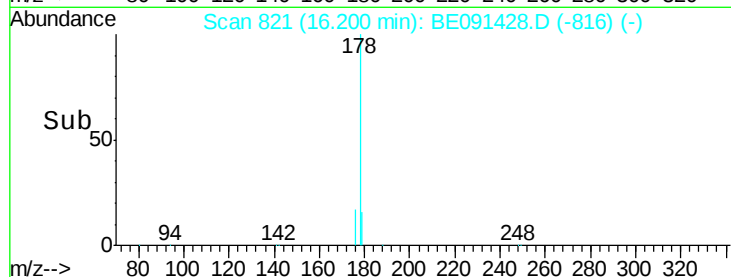
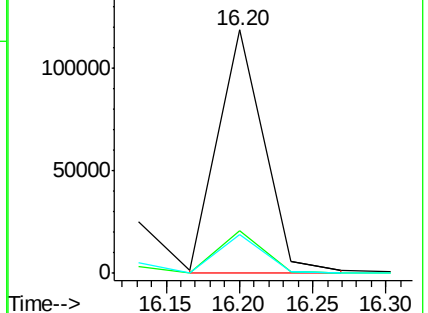
179 22.3 14.3 21.5#



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#18

Fluoranthene

Concen: 9.06 ng

RT: 18.07 min Scan# 899

Delta R.T. 0.00 min

Lab File: BE091428.D

Acq: 3 Mar 2016 18:29

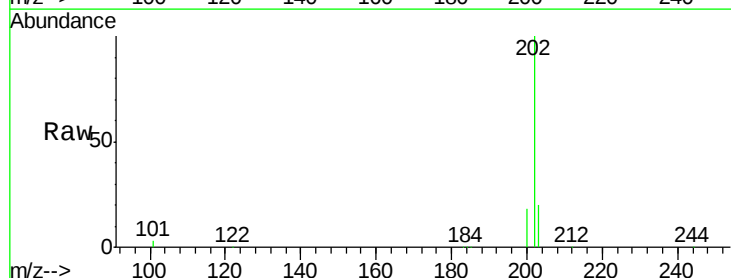
Tgt Ion:202 Resp: 225035

Ion Ratio Lower Upper

202 100

101 14.2 11.0 16.4

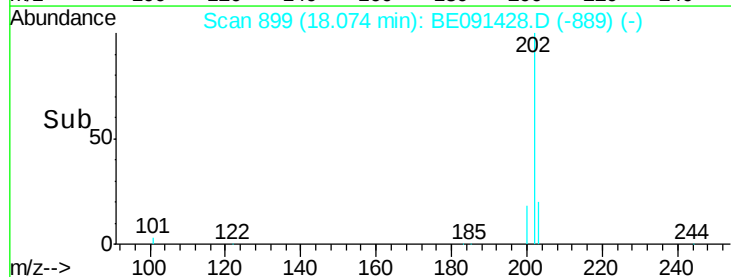
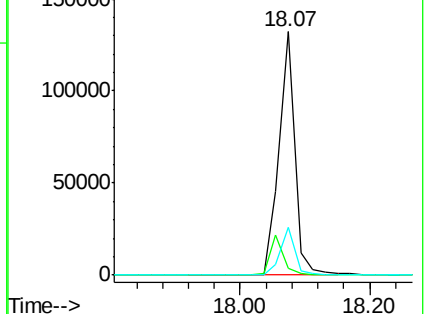
203 18.0 13.7 20.5

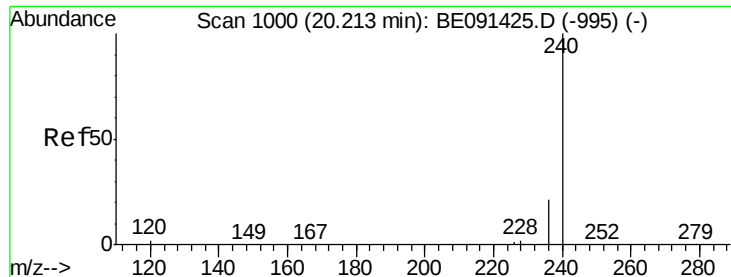


Abundance Ion 202.00 (201.70 to 202.70): E

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: 20.19 min Scan# 999

Delta R.T. -0.02 min

Lab File: BE091428.D

Acq: 3 Mar 2016 18:29

Instrument :

BNA_E

ClientSampleId :

SSTDICC3.2

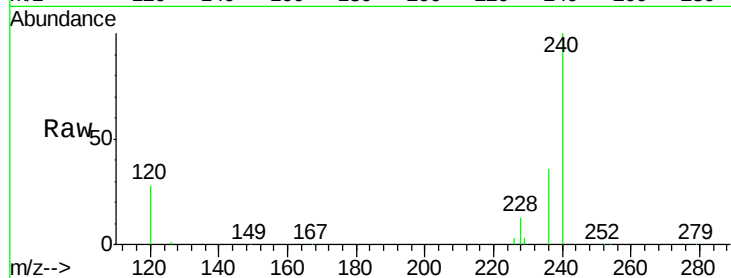
Tgt Ion:240 Resp: 240429

Ion Ratio Lower Upper

240 100

120 28.2 1.4 2.0#

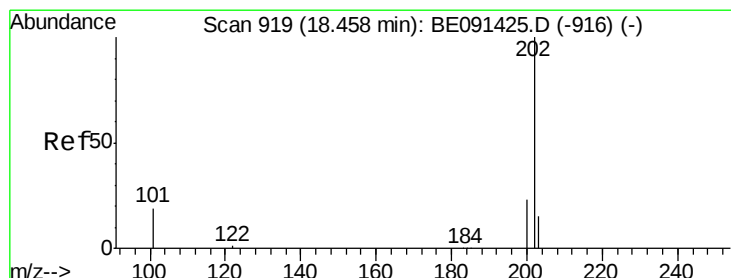
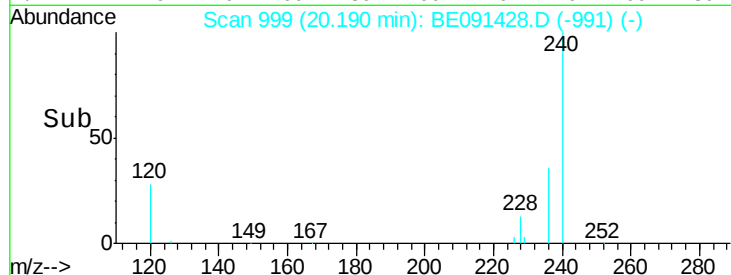
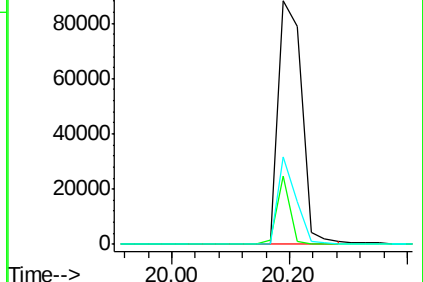
236 36.2 16.7 25.1#



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: 4.53 ng

RT: 18.46 min Scan# 919

Delta R.T. 0.00 min

Lab File: BE091428.D

Acq: 3 Mar 2016 18:29

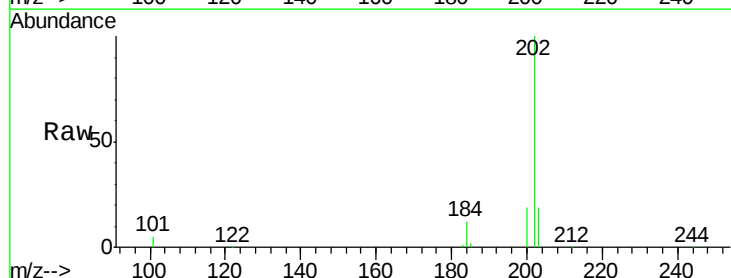
Tgt Ion:202 Resp: 249324

Ion Ratio Lower Upper

202 100

200 20.9 16.5 24.7

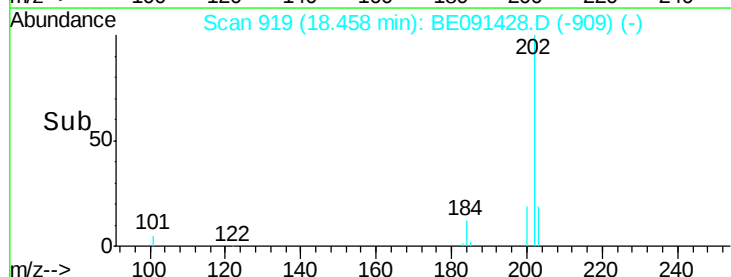
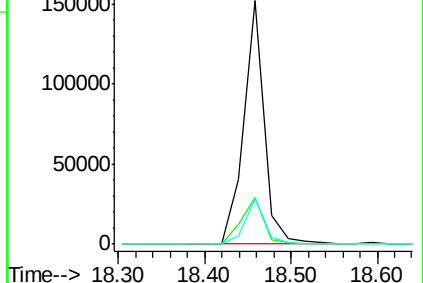
203 17.8 13.8 20.6

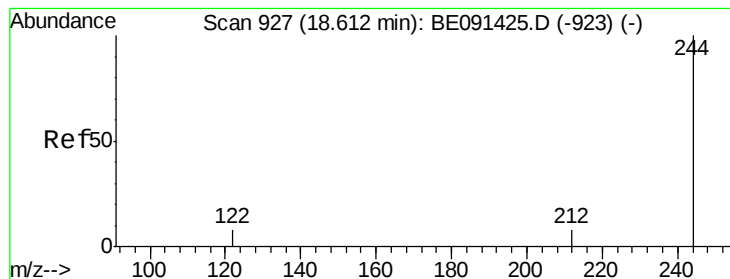


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#21

Terphenyl-d14

Concen: 3.57 ng

RT: 18.59 min Scan# 926

Delta R.T. -0.02 min

Lab File: BE091428.D

Acq: 3 Mar 2016 18:29

Instrument :

BNA_E

ClientSampleId :

SSTDICC3.2

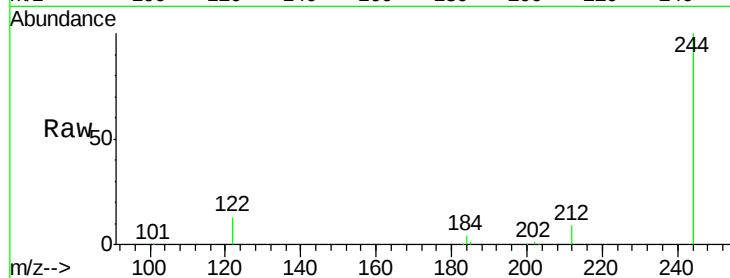
Tgt Ion:244 Resp: 129005

Ion Ratio Lower Upper

244 100

212 9.5 7.0 10.6

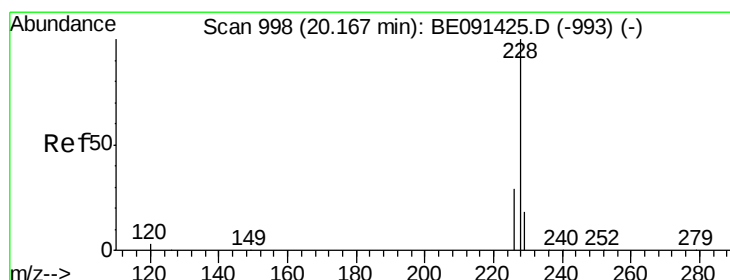
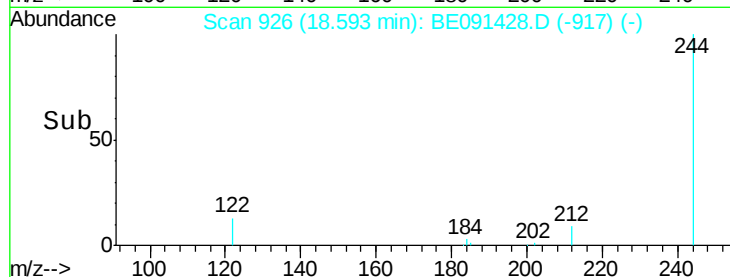
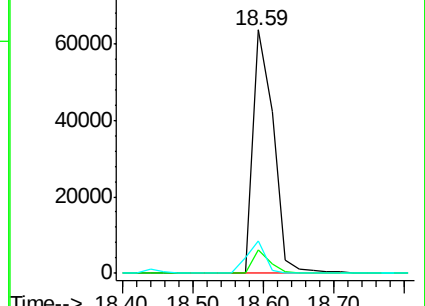
122 13.4 6.8 10.2#



Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E



#22

Benzo(a)anthracene

Concen: 6.54 ng m

RT: 20.17 min Scan# 998

Delta R.T. 0.00 min

Lab File: BE091428.D

Acq: 3 Mar 2016 18:29

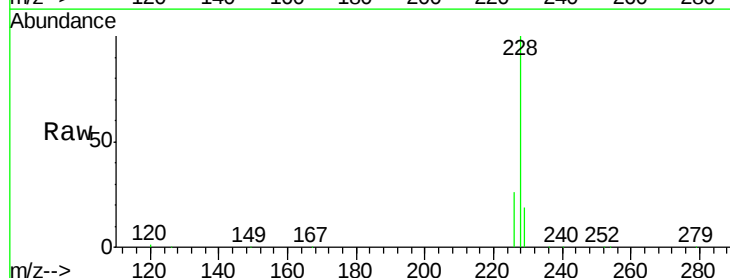
Tgt Ion:228 Resp: 324317

Ion Ratio Lower Upper

228 100

226 26.2 23.1 34.7

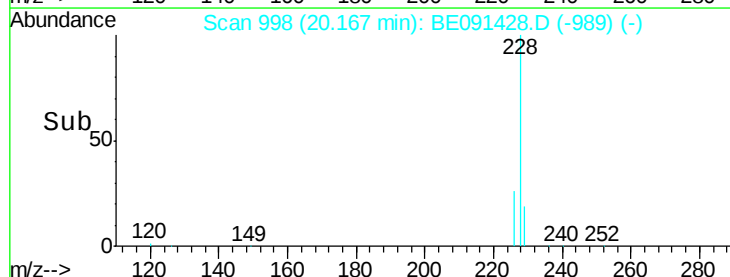
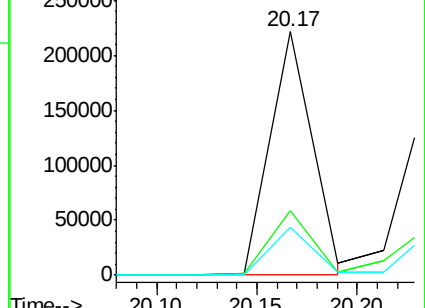
229 19.5 14.5 21.7

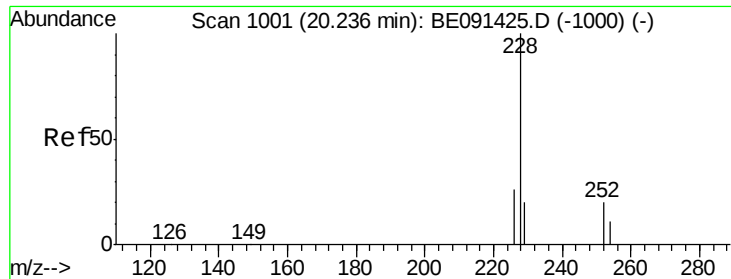


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

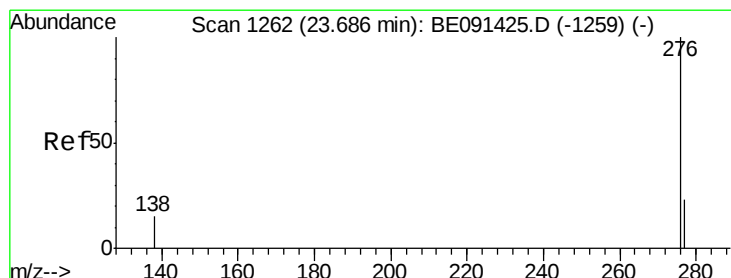
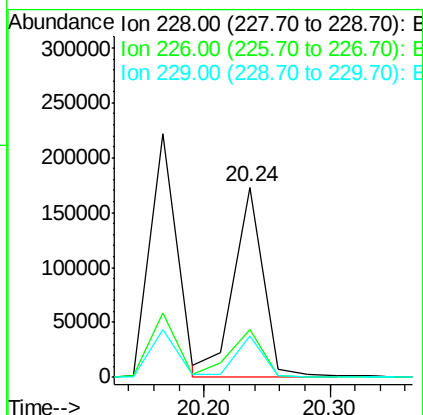
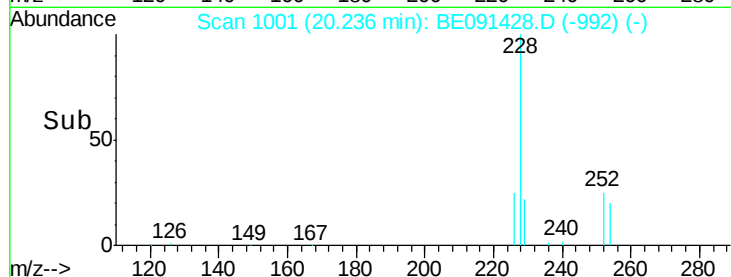
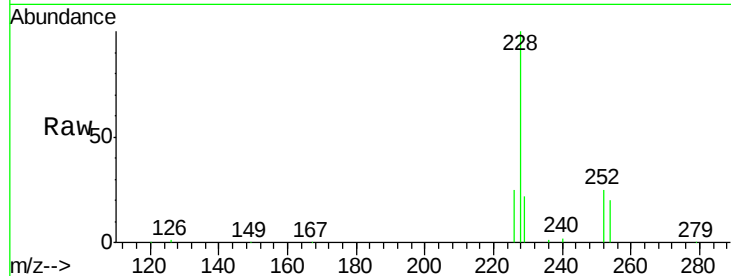




#23
Chrysene
Concen: 4.26 ng m
RT: 20.24 min Scan# 1001
Delta R.T. 0.00 min
Lab File: BE091428.D
Acq: 3 Mar 2016 18:29

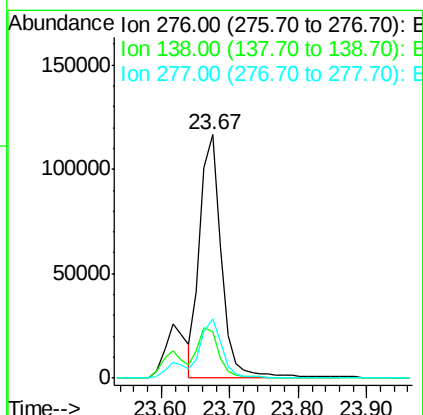
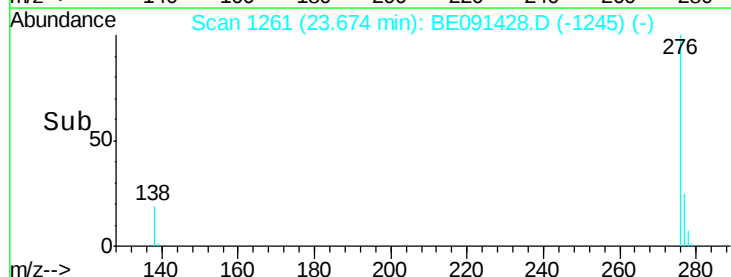
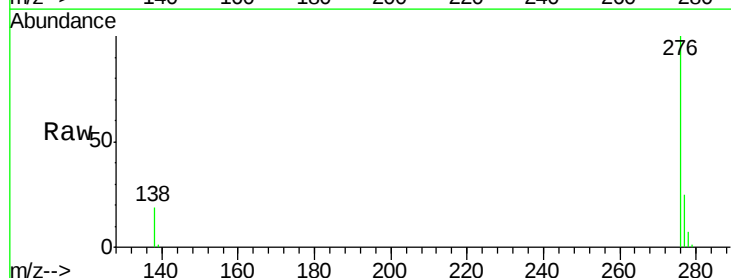
Instrument :
BNA_E
ClientSampleId :
SSTDICC3.2

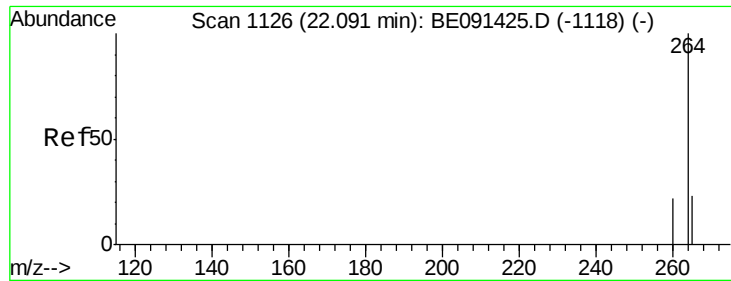
Tgt Ion: 228 Resp: 286773
Ion Ratio Lower Upper
228 100
226 25.5 22.0 33.0
229 22.0 16.2 24.2



#24
Indeno(1,2,3-cd)pyrene
Concen: 5.35 ng m
RT: 23.67 min Scan# 1261
Delta R.T. -0.01 min
Lab File: BE091428.D
Acq: 3 Mar 2016 18:29

Tgt Ion: 276 Resp: 256431
Ion Ratio Lower Upper
276 100
138 20.1 15.9 23.9
277 30.2 22.4 33.6



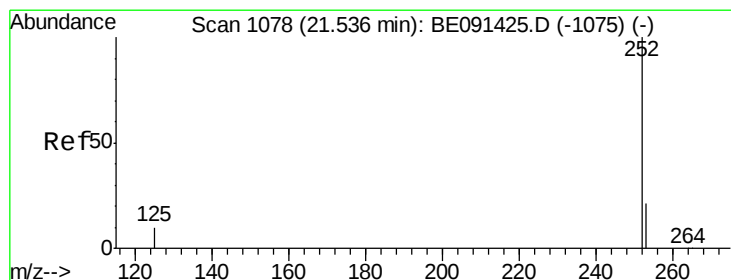
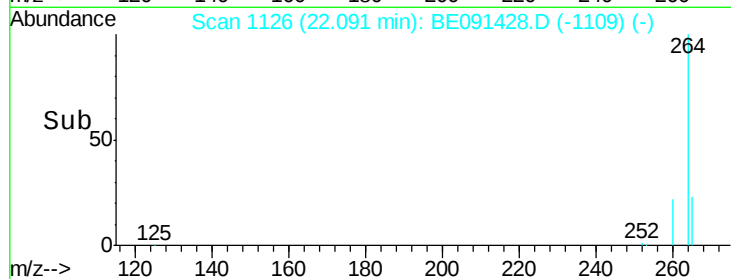
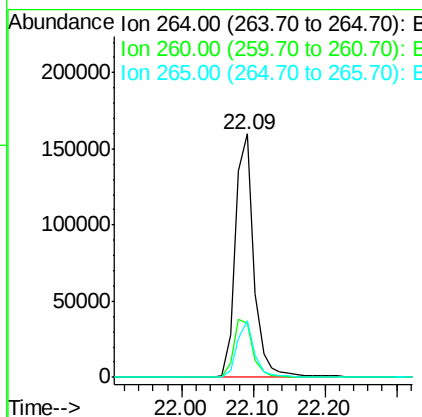
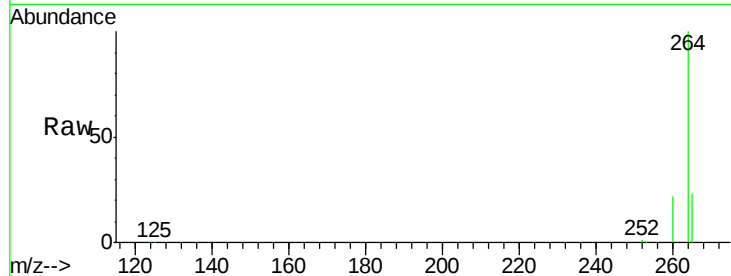


#25
Perylene-d12
Concen: 5.00 ng
RT: 22.09 min Scan# 1126
Delta R.T. 0.00 min
Lab File: BE091428.D
Acq: 3 Mar 2016 18:29

Instrument :
BNA_E
ClientSampleId :
SSTDICC3.2

Tgt Ion: 264 Resp: 286905

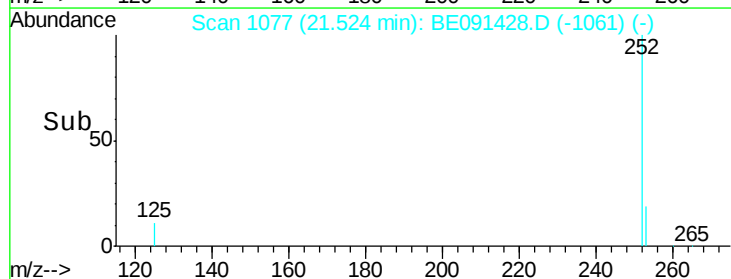
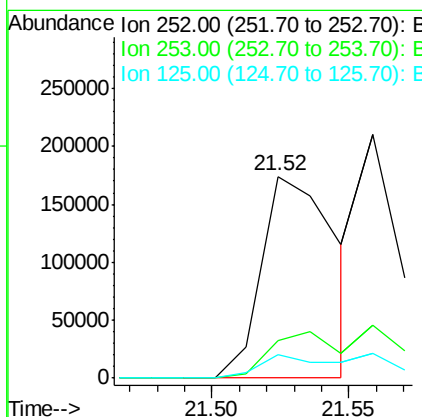
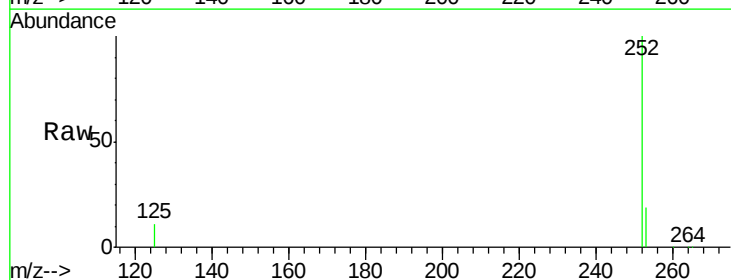
Ion	Ratio	Lower	Upper
264	100		
260	22.4	18.0	27.0
265	23.2	18.2	27.4

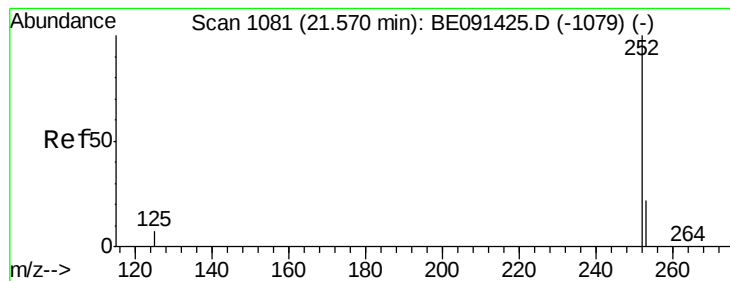


#26
Benzo(b)fluoranthene
Concen: 5.54 ng m
RT: 21.52 min Scan# 1077
Delta R.T. -0.01 min
Lab File: BE091428.D
Acq: 3 Mar 2016 18:29

Tgt Ion: 252 Resp: 328218

Ion	Ratio	Lower	Upper
252	100		
253	18.6	17.0	25.4
125	11.5	8.3	12.5





#27

Benzo(k)fluoranthene

Concen: 3.35 ng m

RT: 21.56 min Scan# 1080

Delta R.T. -0.01 min

Lab File: BE091428.D

Acq: 3 Mar 2016 18:29

Instrument :

BNA_E

ClientSampleId :

SSTDICC3.2

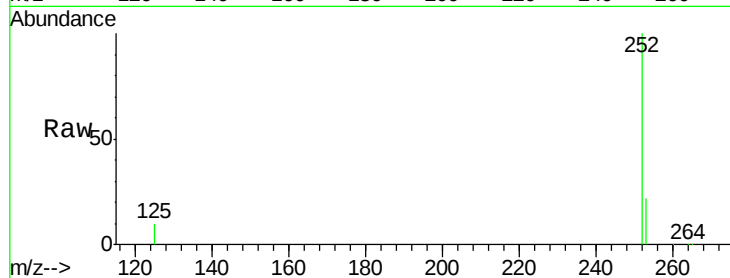
Tgt Ion:252 Resp: 235501

Ion Ratio Lower Upper

252 100

253 21.8 19.5 29.3

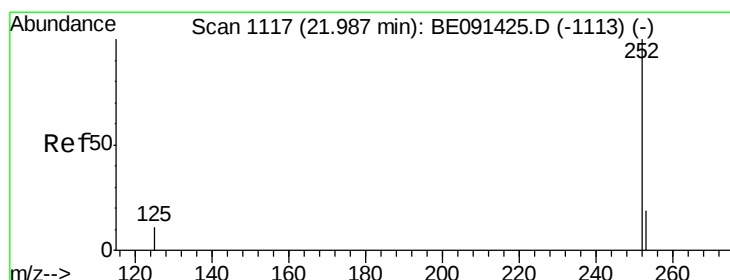
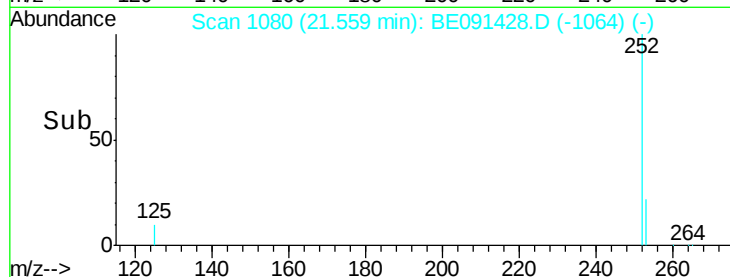
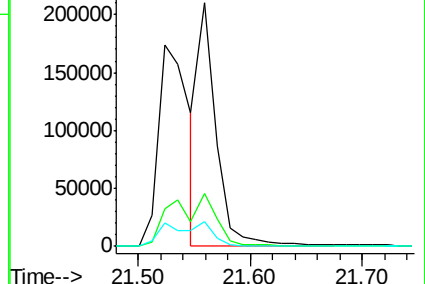
125 10.0 7.3 10.9



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: 4.91 ng

RT: 21.99 min Scan# 1117

Delta R.T. 0.00 min

Lab File: BE091428.D

Acq: 3 Mar 2016 18:29

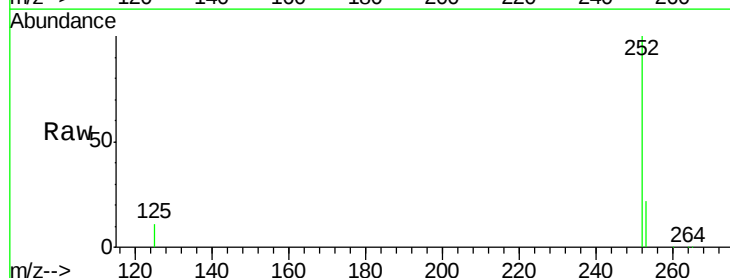
Tgt Ion:252 Resp: 266792

Ion Ratio Lower Upper

252 100

253 22.3 16.2 24.4

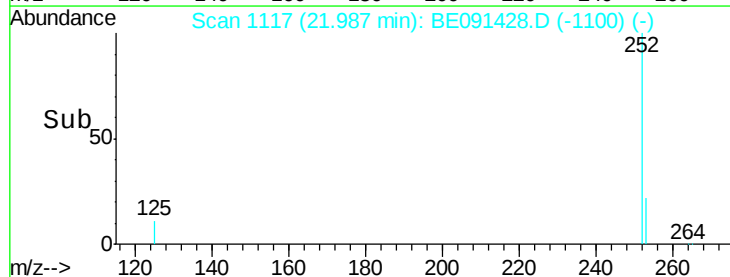
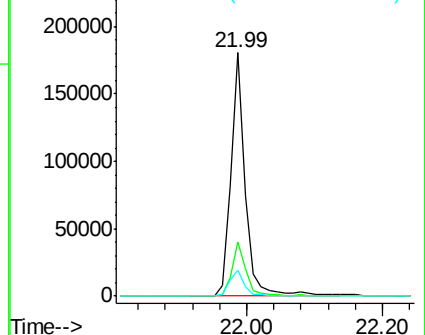
125 10.9 9.6 14.4

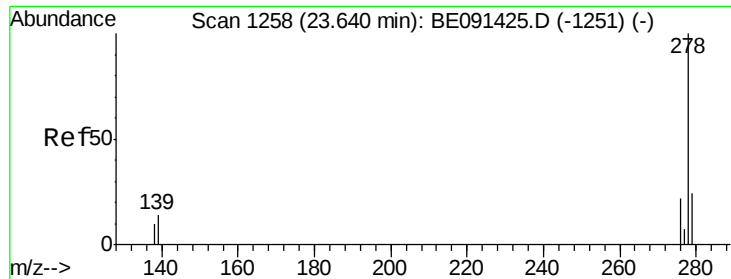


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#29

Dibenzo(a,h)anthracene

Concen: 5.46 ng

RT: 23.63 min Scan# 1257

Delta R.T. -0.01 min

Lab File: BE091428.D

Acq: 3 Mar 2016 18:29

Instrument :

BNA_E

ClientSampleId :

SSTDICC3.2

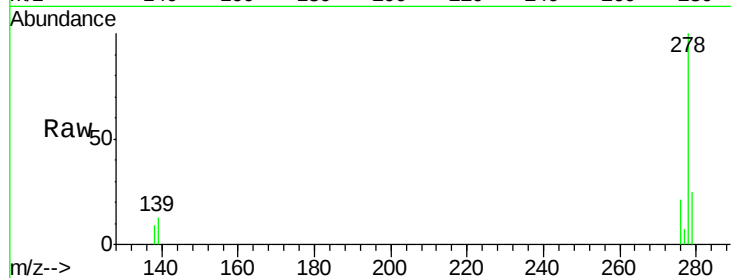
Tgt Ion: 278 Resp: 248336

Ion Ratio Lower Upper

278 100

139 13.5 12.1 18.1

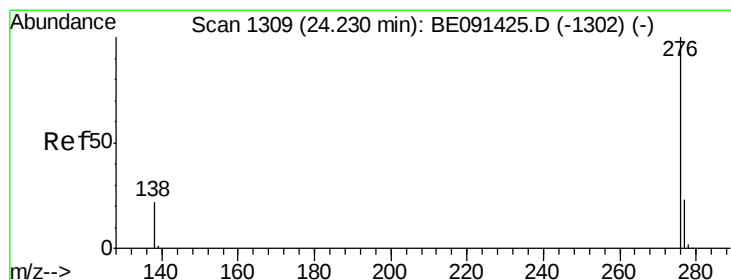
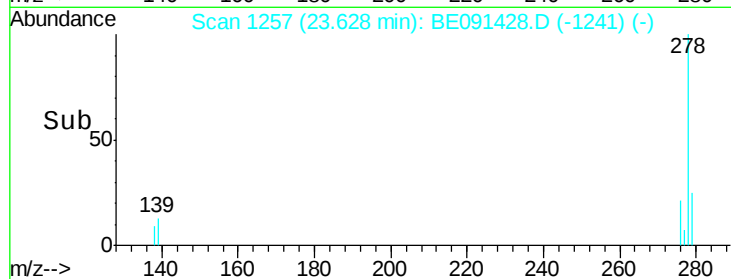
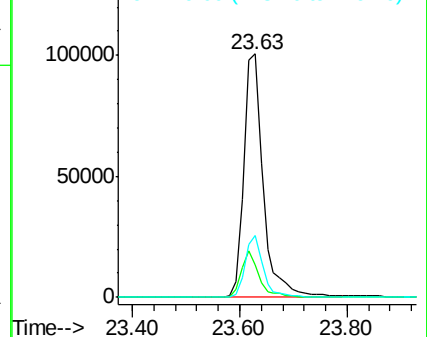
279 25.3 19.4 29.0



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: 4.35 ng

RT: 24.22 min Scan# 1308

Delta R.T. -0.01 min

Lab File: BE091428.D

Acq: 3 Mar 2016 18:29

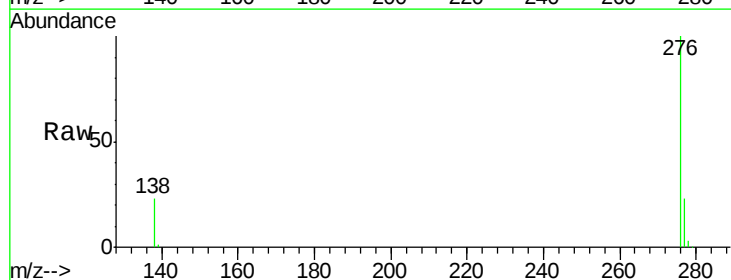
Tgt Ion: 276 Resp: 254167

Ion Ratio Lower Upper

276 100

277 23.3 19.0 28.6

138 23.0 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

