

Data Path : Z:\HPCHEM1\BNA E\DATA\BE031616\
 Data File : BE091457.D
 Acq On : 16 Mar 2016 23:45
 Operator : UM/SJ
 Sample : SSTDICC010
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :

Quant Time: Mar 17 07:10:05 2016
 Quant Method : Z:\HPCHEM1\BNA E\METHODS\SIM-BE031616.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Mar 17 07:07:36 2016
 Response via : Initial Calibration

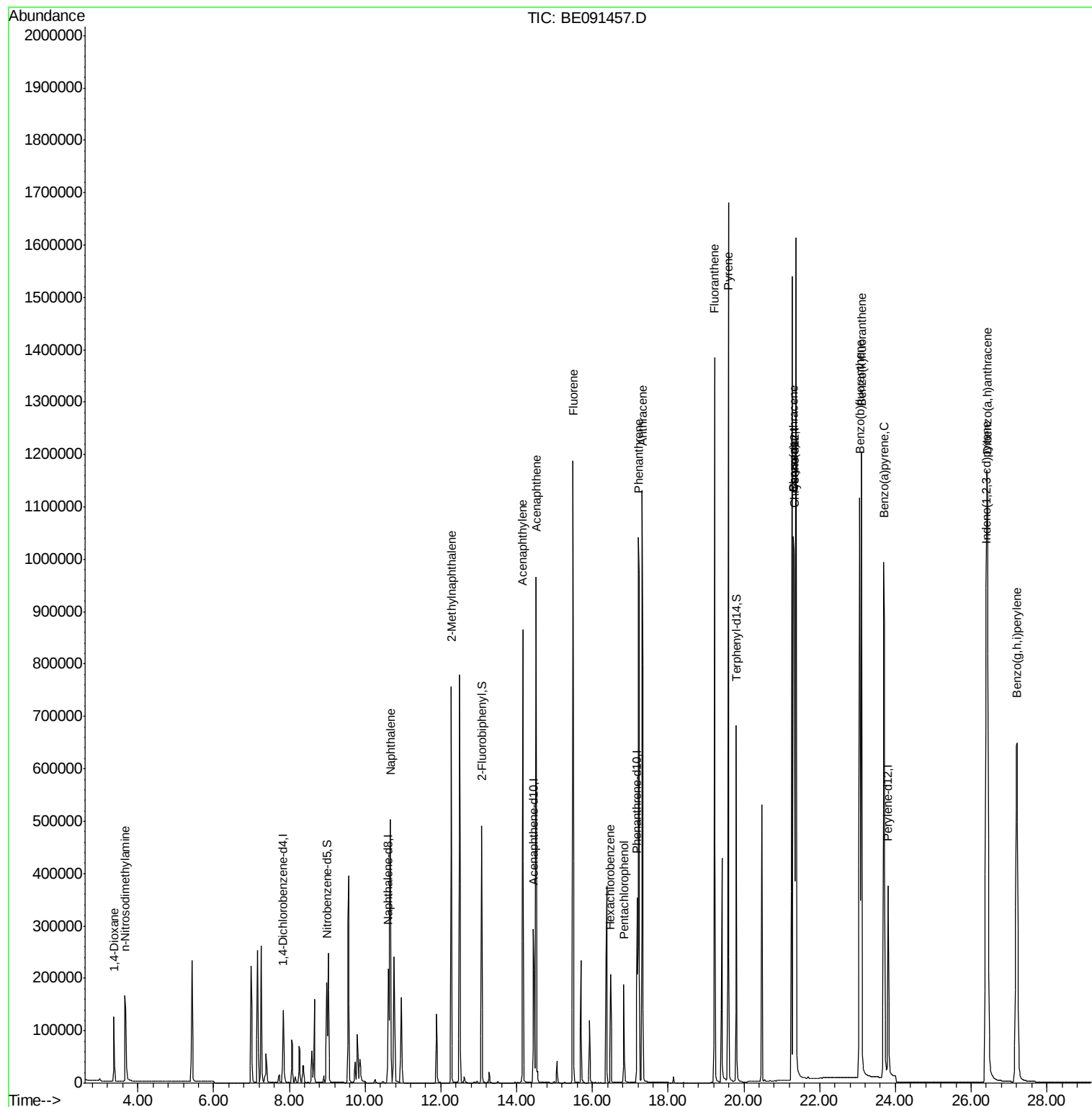
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.84	152	68094	5.00	ng	0.00
4) Naphthalene-d8	10.61	136	325393	5.00	ng	0.00
8) Acenaphthene-d10	14.45	164	192201	5.00	ng	0.00
13) Phenanthrene-d10	17.18	188	442592	5.00	ng	0.00
19) Chrysene-d12	21.33	240	523583	5.00	ng	0.00
25) Perylene-d12	23.81	264	541371	5.00	ng	0.00
System Monitoring Compounds						
5) Nitrobenzene-d5	8.99	82	185190	12.20	ng	0.00
9) 2-Fluorobiphenyl	13.08	172	510164	10.94	ng	0.00
21) Terphenyl-d14	19.80	244	808267	10.23	ng	0.00
Target Compounds						Ovalue
2) 1,4-Dioxane	3.37	88	78569	12.51	ng	# 100
3) n-Nitrosodimethylamine	3.66	42	149916	20.65	ng	# 100
6) Naphthalene	10.67	128	805743	10.74	ng	# 99
7) 2-Methylnaphthalene	12.27	142	542359	12.15	ng	# 96
10) Acenaphthylene	14.16	152	984840	3.45	ng	# 100
11) Acenaphthene	14.51	154	613054	10.59	ng	# 100
12) Fluorene	15.49	166	755855	10.09	ng	# 100
14) Hexachlorobenzene	16.48	284	202961	8.08	ng	# 100
15) Pentachlorophenol	16.83	266	122162	22.07	ng	# 87
16) Phenanthrene	17.22	178	1274003	8.43	ng	# 100
17) Anthracene	17.31	178	1255864	5.81	ng	# 100
18) Fluoranthene	19.22	202	1472936	6.71	ng	# 67
20) Pyrene	19.59	202	1595983	10.78	ng	# 92
22) Benzo(a)anthracene	21.31	228	1726162	9.54	ng	# 99
23) Chrysene	21.31	228	1725965	9.21	ng	# 85
24) Indeno(1,2,3-cd)pyrene	26.40	276	1909725	11.91	ng	# 100
26) Benzo(b)fluoranthene	23.06	252	1809717	11.44	ng	# 94
27) Benzo(k)fluoranthene	23.10	252	1594688	10.92	ng	# 94
28) Benzo(a)pyrene	23.69	252	1636243	12.27	ng	# 92
29) Dibenzo(a,h)anthracene	26.43	278	1590390	12.42	ng	# 98
30) Benzo(g,h,i)perylene	27.21	276	1621715	11.83	ng	# 98

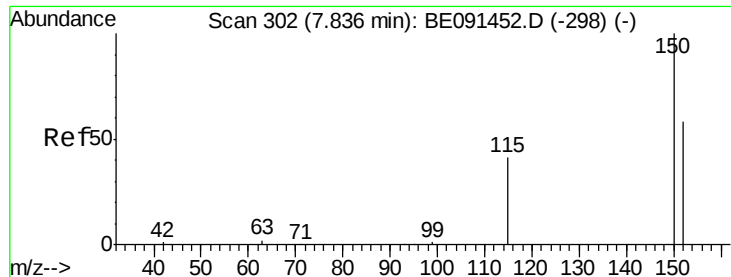
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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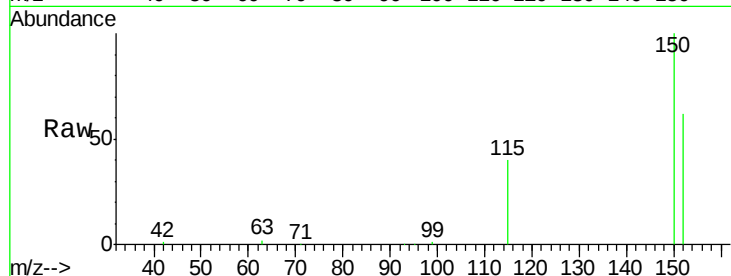


#1

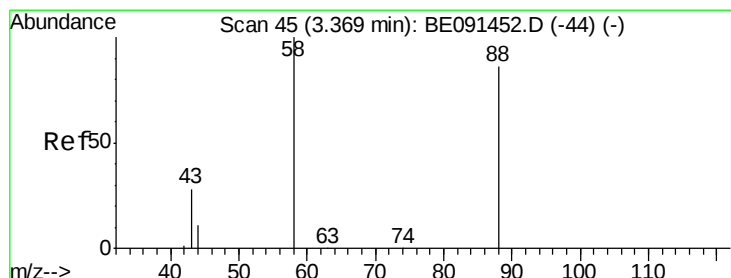
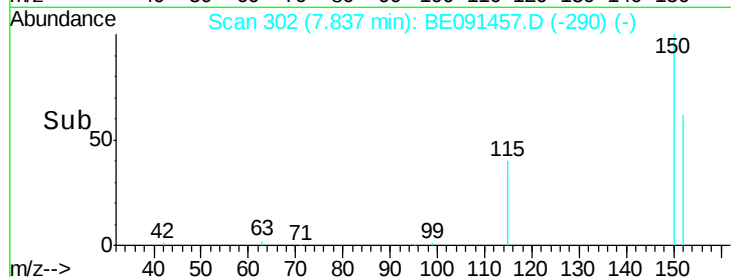
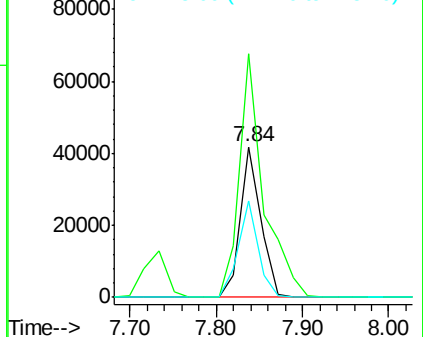
1,4-Dichlorobenzene-d4
Concen: 5.00 ng
RT: 7.84 min Scan# 302
Delta R.T. 0.00 min
Lab File: BE091457.D
Acq: 16 Mar 2016 23:45

Instrument :
BNA_E
ClientSampleId :

Tot Ion:152 Resp: 68094
Ion Ratio Lower Upper
152 100
150 162.1 136.8 205.2
115 64.5 56.9 85.3



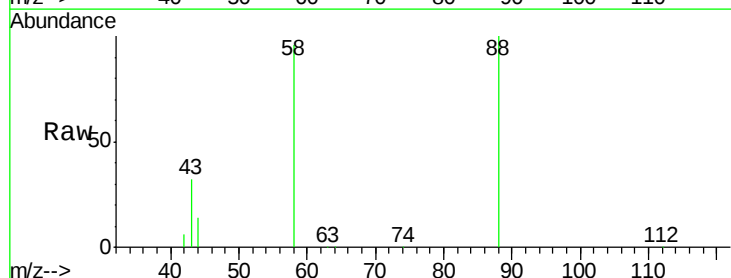
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



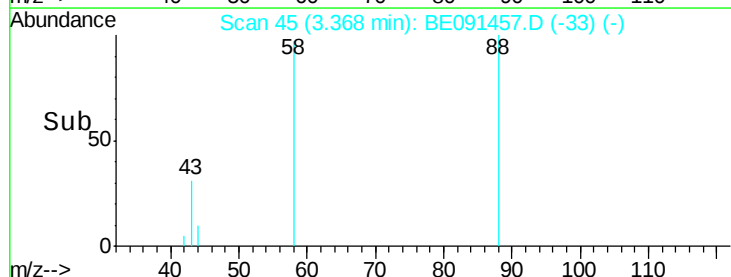
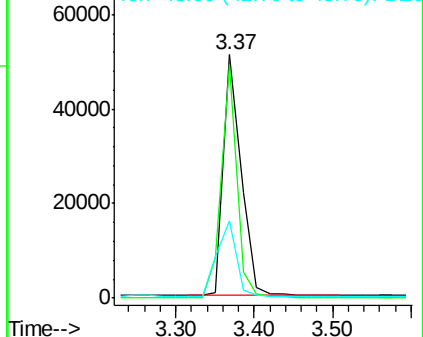
#2

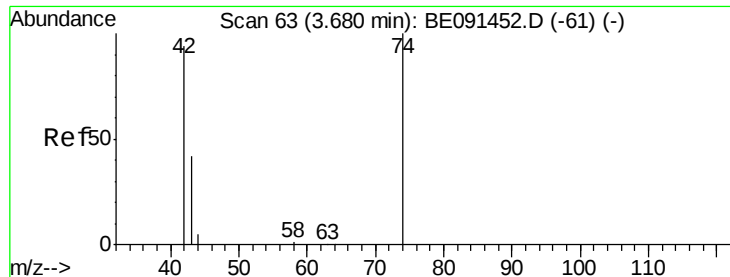
1,4-Dioxane
Concen: 12.51 ng
RT: 3.37 min Scan# 45
Delta R.T. -0.00 min
Lab File: BE091457.D
Acq: 16 Mar 2016 23:45

Tgt Ion: 88 Resp: 78569
Ion Ratio Lower Upper
88 100
58 84.6 0.0 0.0#
43 34.3 0.0 0.0#



Abundance Ion 88.00 (87.70 to 88.70): BE0
Ion 58.00 (57.70 to 58.70): BE0
Ion 43.00 (42.70 to 43.70): BE0





#3

n-Nitrosodimethylamine

Concen: 20.65 ng

RT: 3.66 min Scan# 62

Delta R.T. -0.02 min

Lab File: BE091457.D

Acq: 16 Mar 2016 23:45

Instrument :

BNA_E

ClientSampleId :

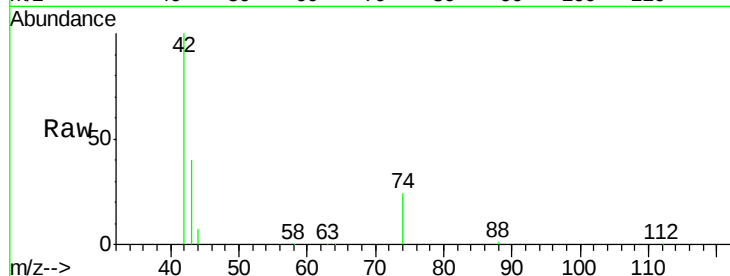
Tot Ion: 42 Resp: 149916

Ion Ratio Lower Upper

42 100

74 99.7 0.0 0.0#

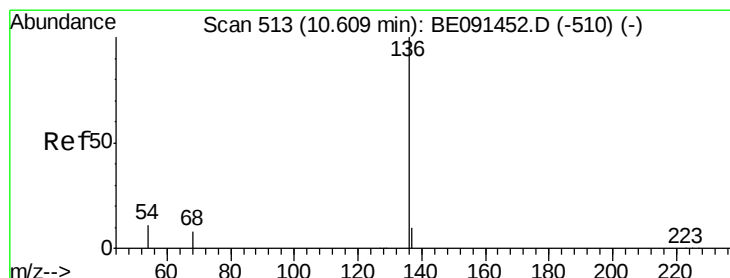
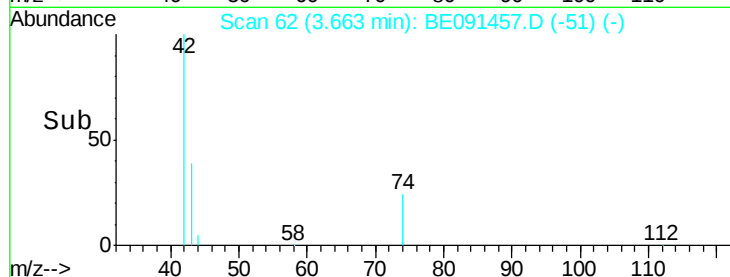
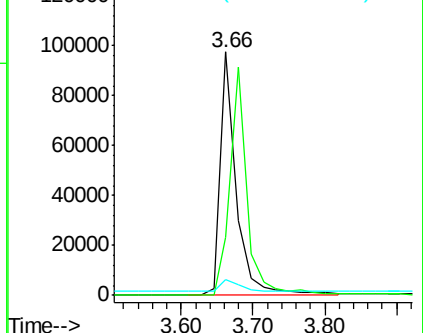
44 6.1 0.0 0.0#



Abundance Ion 42.00 (41.70 to 42.70): BE0

Ion 74.00 (73.70 to 74.70): BE0

Ion 44.00 (43.70 to 44.70): BE0



#4

Naphthalene-d8

Concen: 5.00 ng

RT: 10.61 min Scan# 513

Delta R.T. -0.00 min

Lab File: BE091457.D

Acq: 16 Mar 2016 23:45

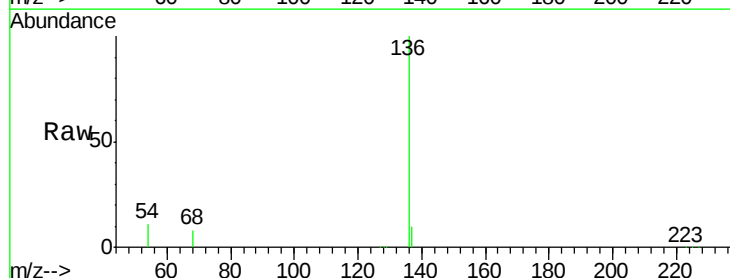
Tgt Ion: 136 Resp: 325393

Ion Ratio Lower Upper

136 100

137 10.3 8.0 12.0

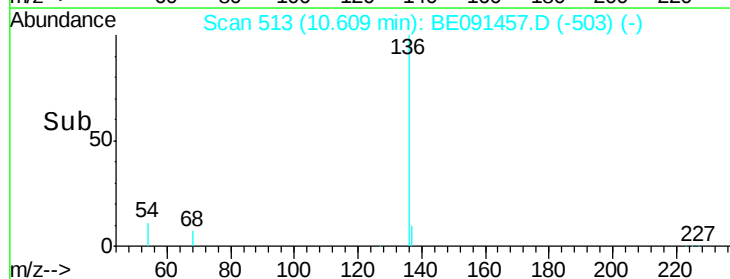
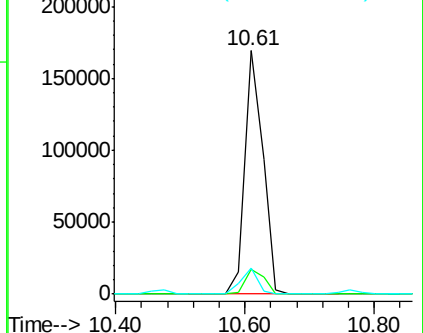
54 10.6 9.1 13.7

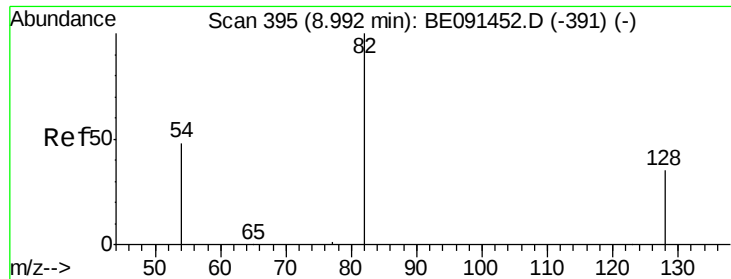


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BE0





#5

Nitrobenzene-d5

Concen: 12.20 ng

RT: 8.99 min Scan# 395

Delta R.T. -0.00 min

Lab File: BE091457.D

Acq: 16 Mar 2016 23:45

Instrument :

BNA_E

ClientSampleId :

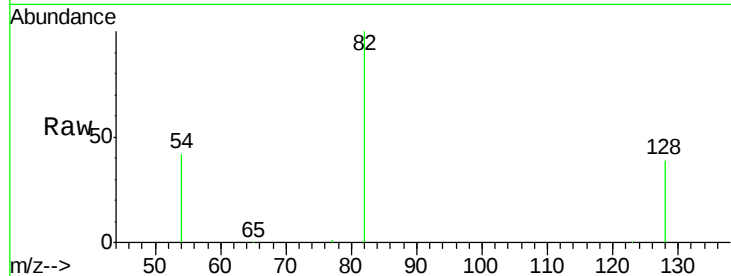
Tot Ion: 82 Resp: 185190

Ion Ratio Lower Upper

82 100

128 39.4 29.4 44.2

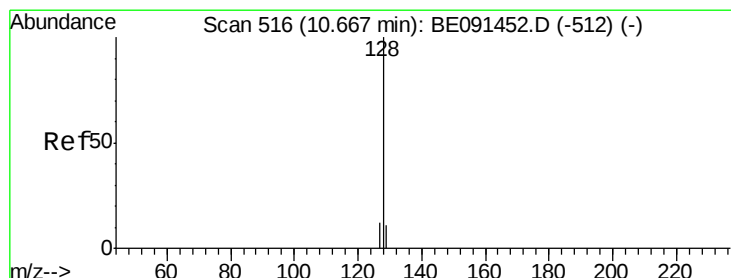
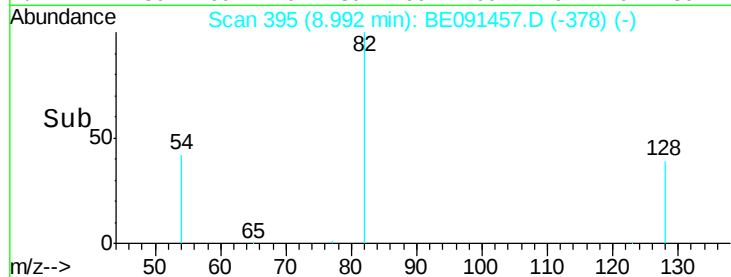
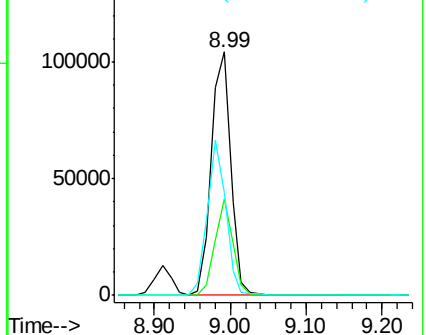
54 42.5 39.8 59.8



Abundance Ion 82.00 (81.70 to 82.70): BE091457.D (-391) (-)

Ion 128.00 (127.70 to 128.70): BE091457.D (-391) (-)

Ion 54.00 (53.70 to 54.70): BE091457.D (-391) (-)



#6

Naphthalene

Concen: 10.74 ng

RT: 10.67 min Scan# 516

Delta R.T. -0.00 min

Lab File: BE091457.D

Acq: 16 Mar 2016 23:45

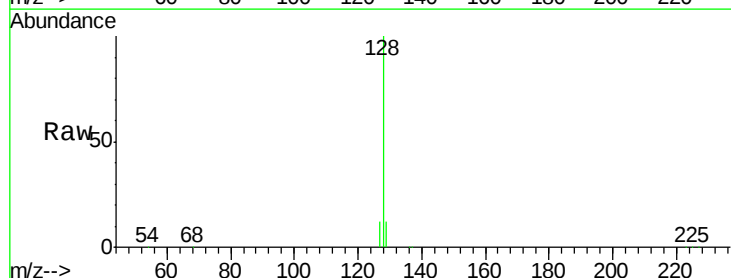
Tgt Ion: 128 Resp: 805743

Ion Ratio Lower Upper

128 100

129 11.9 9.4 14.0

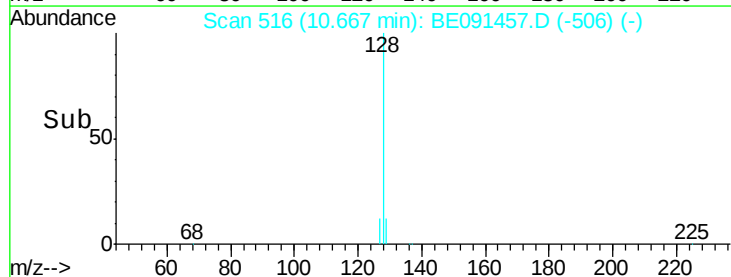
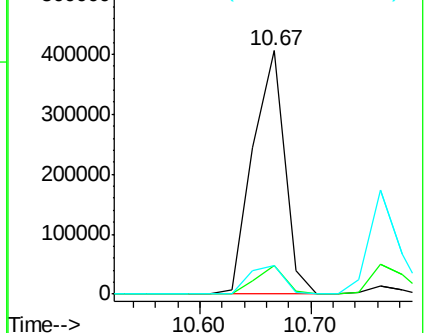
127 11.7 9.7 14.5

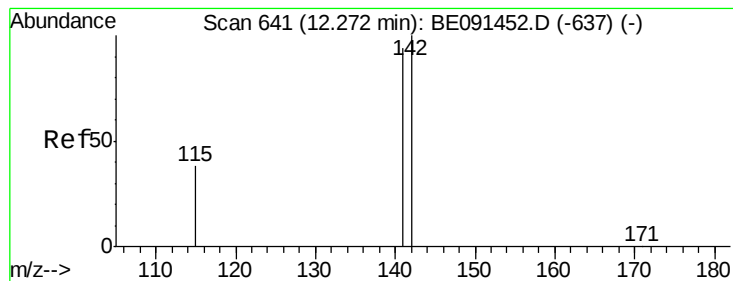


Abundance Ion 128.00 (127.70 to 128.70): BE091457.D (-512) (-)

Ion 129.00 (128.70 to 129.70): BE091457.D (-512) (-)

Ion 127.00 (126.70 to 127.70): BE091457.D (-512) (-)





#7

2-Methylnaphthalene

Concen: 12.15 ng

RT: 12.27 min Scan# 641

Delta R.T. -0.00 min

Lab File: BE091457.D

Acq: 16 Mar 2016 23:45

Instrument :

BNA_E

ClientSampleId :

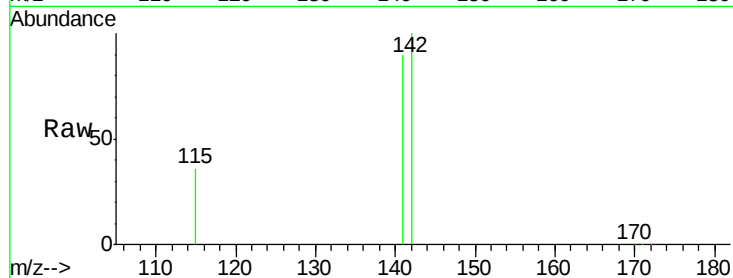
Tot Ion:142 Resp: 542359

Ion Ratio Lower Upper

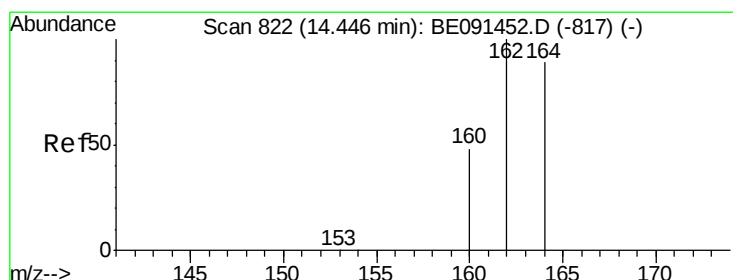
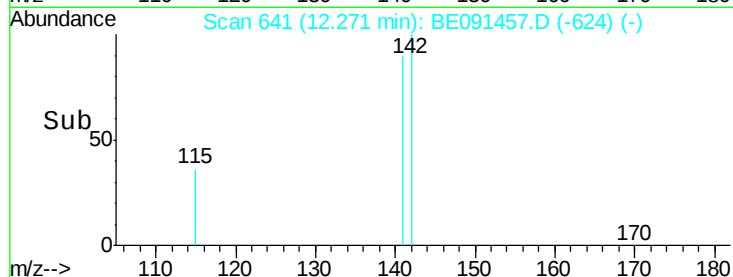
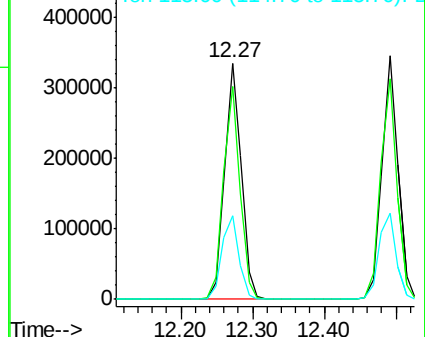
142 100

141 90.2 75.0 112.4

115 35.7 30.8 46.2



Abundance Ion 142.00 (141.70 to 142.70): E
Ion 141.00 (140.70 to 141.70): E
Ion 115.00 (114.70 to 115.70): E



#8

Acenaphthene-d10

Concen: 5.00 ng

RT: 14.45 min Scan# 822

Delta R.T. -0.00 min

Lab File: BE091457.D

Acq: 16 Mar 2016 23:45

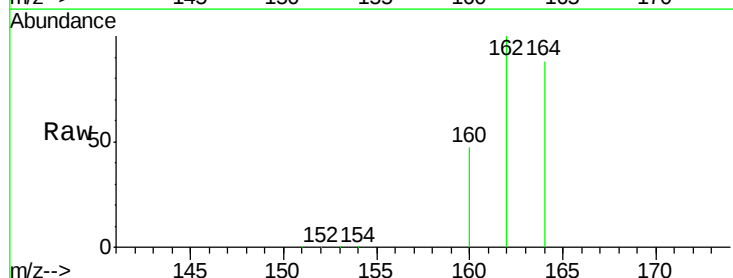
Tgt Ion:164 Resp: 192201

Ion Ratio Lower Upper

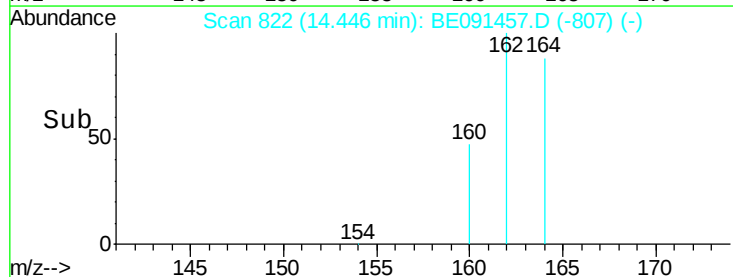
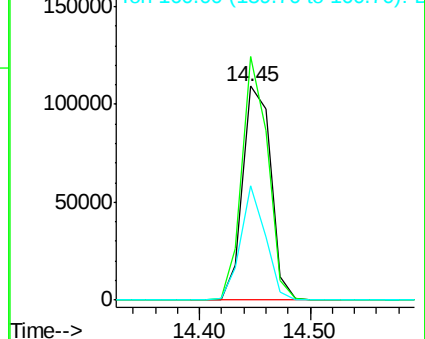
164 100

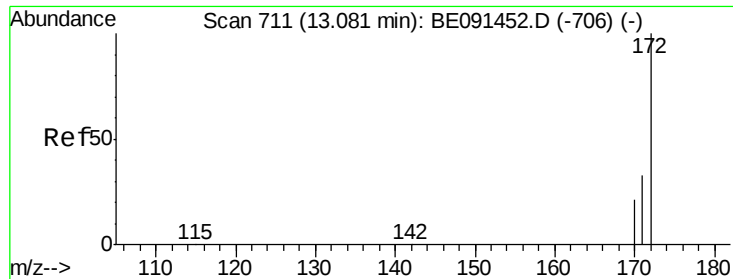
162 113.8 89.8 134.8

160 53.7 43.1 64.7



Abundance Ion 164.00 (163.70 to 164.70): E
Ion 162.00 (161.70 to 162.70): E
Ion 160.00 (159.70 to 160.70): E





#9

2-Fluorobiphenyl

Concen: 10.94 ng

RT: 13.08 min Scan# 711

Delta R.T. -0.00 min

Lab File: BE091457.D

Acq: 16 Mar 2016 23:45

Instrument :

BNA_E

ClientSampleId :

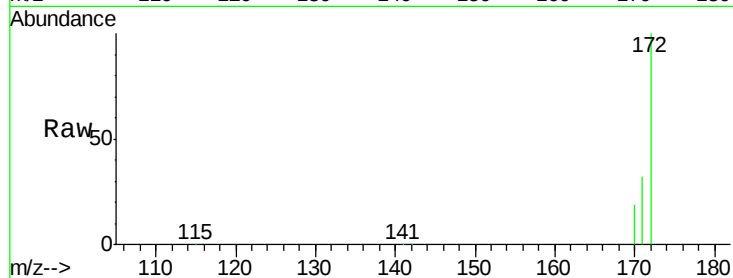
Tot Ion:172 Resp: 510164

Ion Ratio Lower Upper

172 100

171 31.7 26.7 40.1

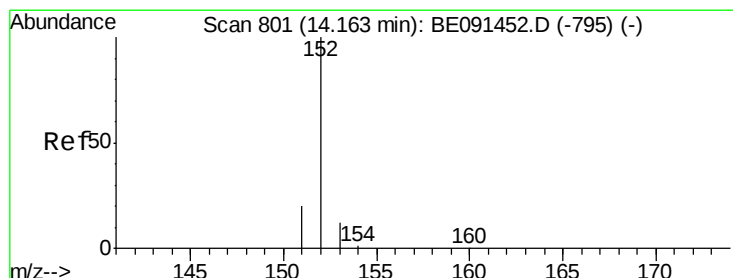
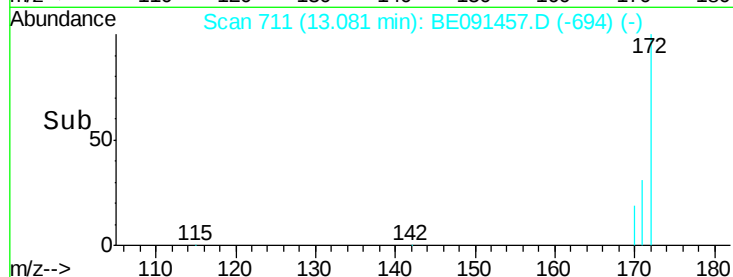
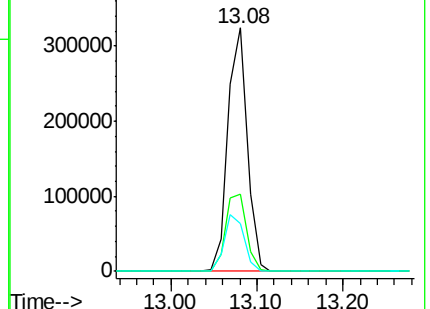
170 19.4 17.4 26.2



Abundance Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E



#10

Acenaphthylene

Concen: 3.45 ng

RT: 14.16 min Scan# 801

Delta R.T. -0.00 min

Lab File: BE091457.D

Acq: 16 Mar 2016 23:45

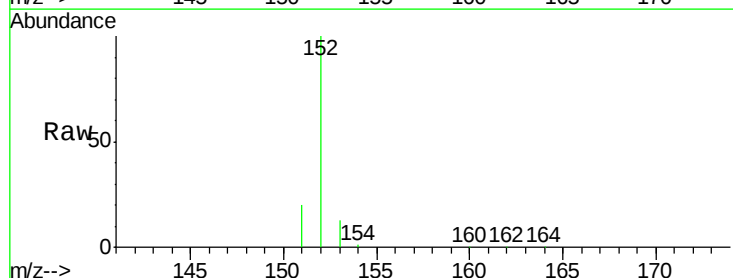
Tgt Ion:152 Resp: 984840

Ion Ratio Lower Upper

152 100

151 19.8 0.0 0.0#

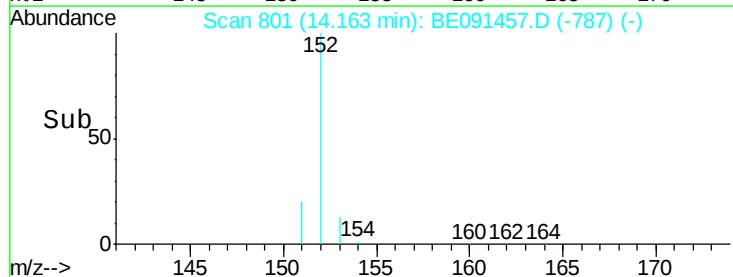
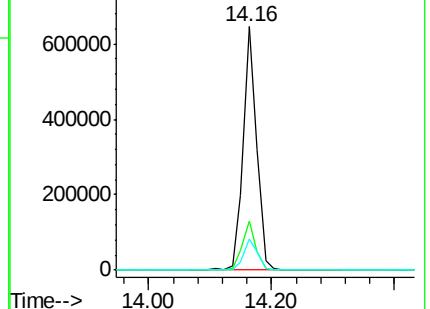
153 13.3 0.0 0.0#

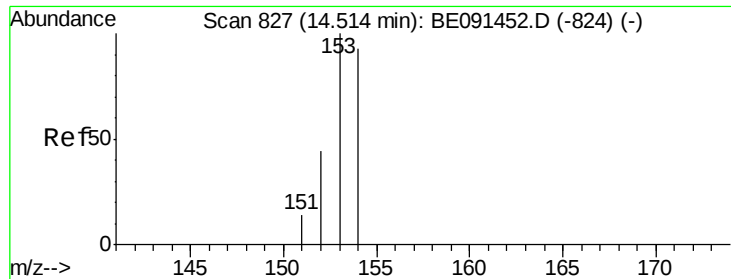


Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E

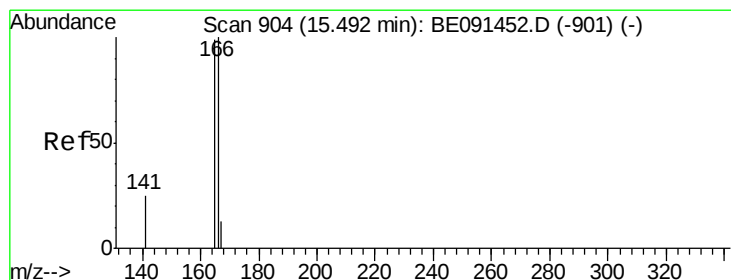
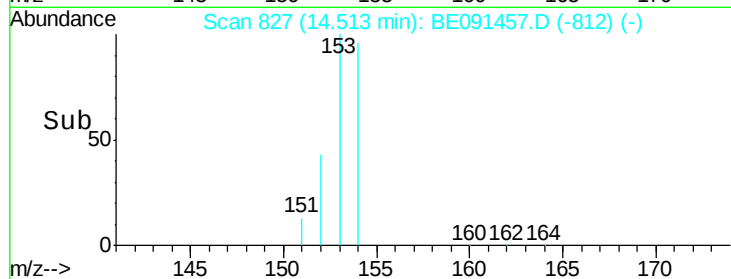
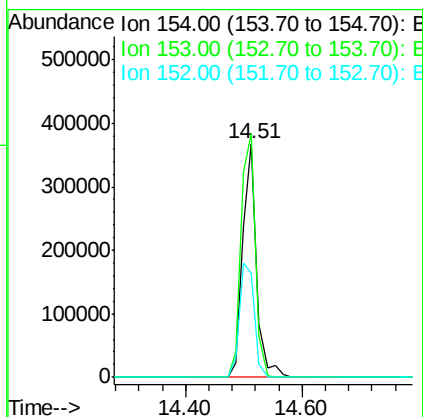
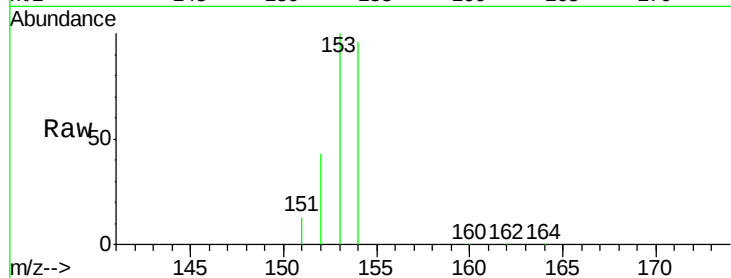




#11
Acenaphthene
Concen: 10.59 ng
RT: 14.51 min Scan# 827
Delta R.T. -0.00 min
Lab File: BE091457.D
Acq: 16 Mar 2016 23:45

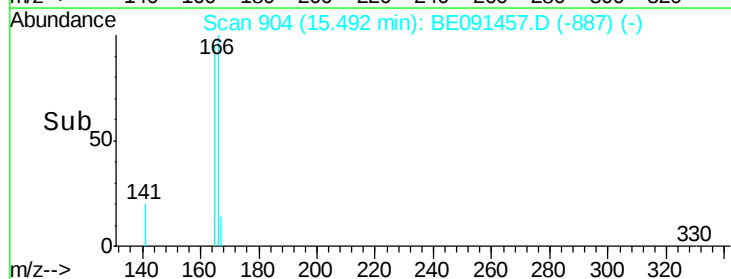
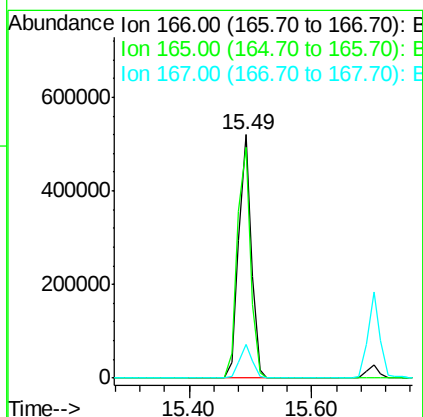
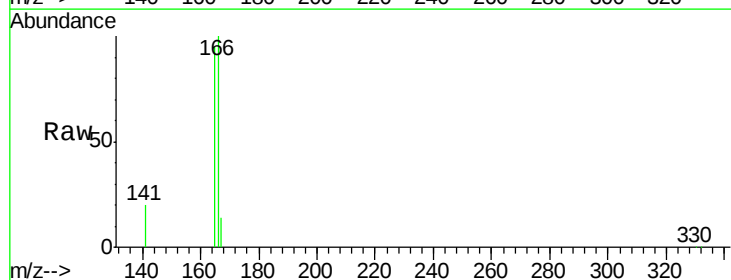
Instrument :
BNA_E
ClientSampleId :

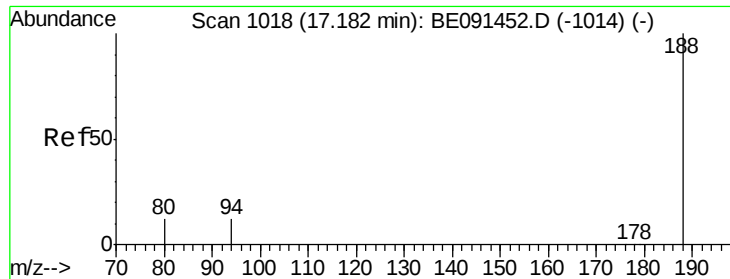
Tot Ion:154 Resp: 613054
Ion Ratio Lower Upper
154 100
153 107.8 0.0 0.0#
152 52.6 0.0 0.0#



#12
Fluorene
Concen: 10.09 ng
RT: 15.49 min Scan# 904
Delta R.T. 0.00 min
Lab File: BE091457.D
Acq: 16 Mar 2016 23:45

Tgt Ion:166 Resp: 755855
Ion Ratio Lower Upper
166 100
165 99.2 0.0 0.0#
167 13.7 0.0 0.0#

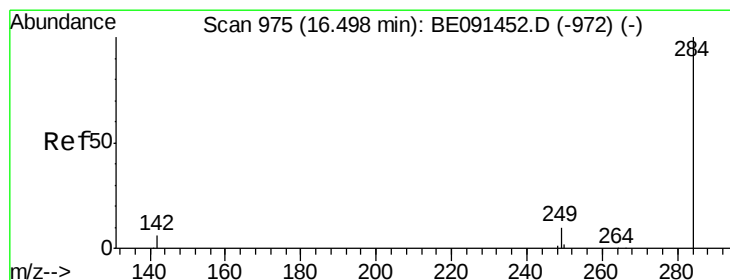
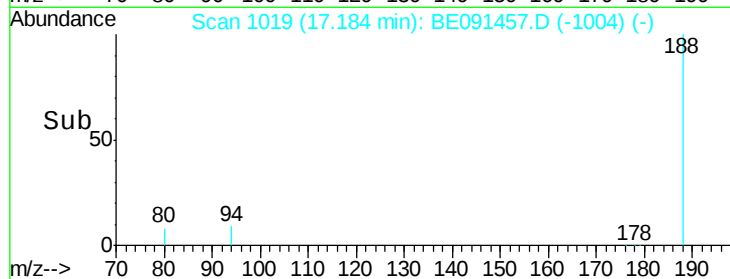
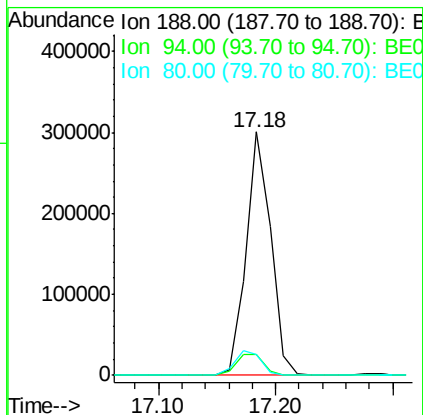
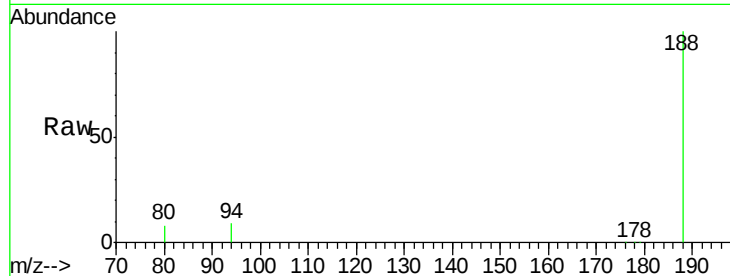




#13
Phenanthrene-d10
Concen: 5.00 ng
RT: 17.18 min Scan# 1019
Delta R.T. 0.00 min
Lab File: BE091457.D
Acq: 16 Mar 2016 23:45

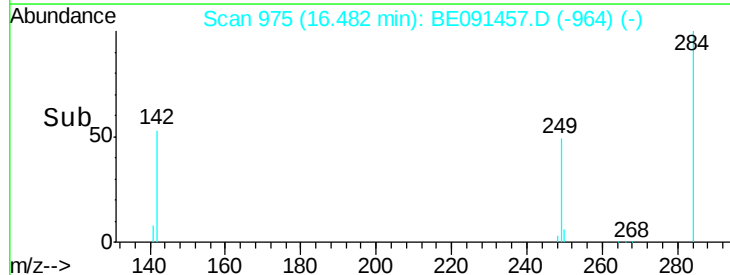
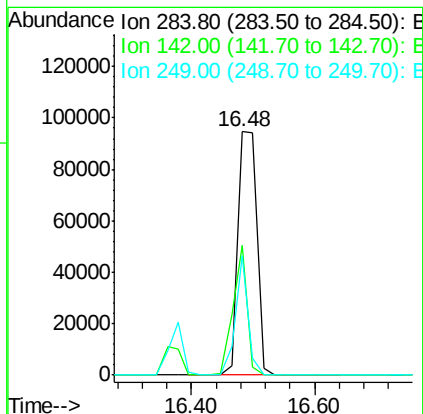
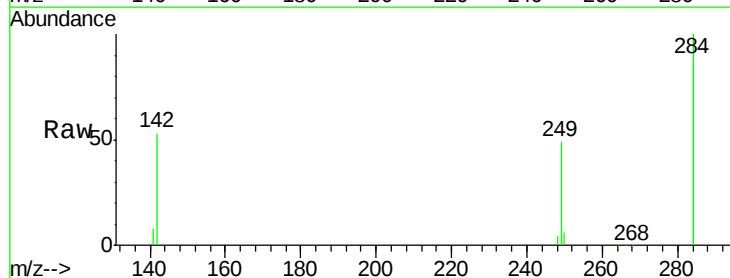
Instrument :
BNA_E
ClientSampleId :

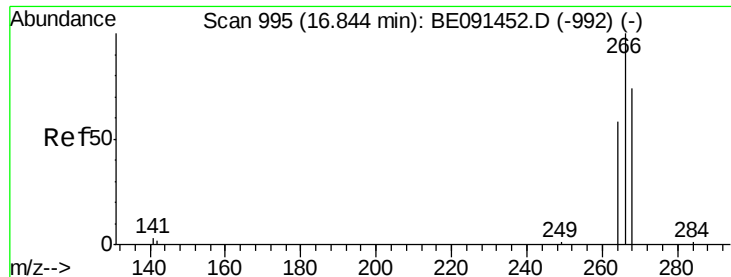
Tot Ion:188 Resp: 442592
Ion Ratio Lower Upper
188 100
94 8.7 9.5 14.3#
80 8.4 9.8 14.8#



#14
Hexachlorobenzene
Concen: 8.08 ng
RT: 16.48 min Scan# 975
Delta R.T. -0.02 min
Lab File: BE091457.D
Acq: 16 Mar 2016 23:45

Tgt Ion:284 Resp: 202961
Ion Ratio Lower Upper
284 100
142 39.5 0.0 0.0#
249 32.6 0.0 0.0#





#15

Pentachlorophenol

Concen: 22.07 ng

RT: 16.83 min Scan# 995

Delta R.T. -0.02 min

Lab File: BE091457.D

Acq: 16 Mar 2016 23:45

Instrument :

BNA_E

ClientSampleId :

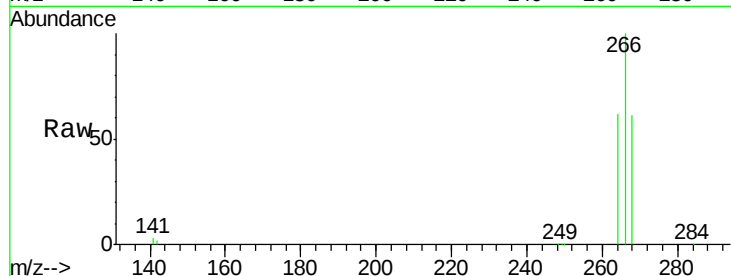
Tot Ion:266 Resp: 122162

Ion Ratio Lower Upper

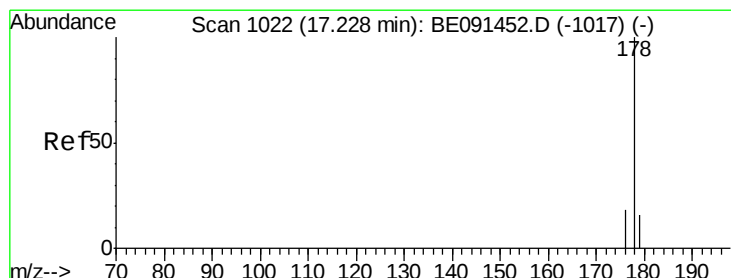
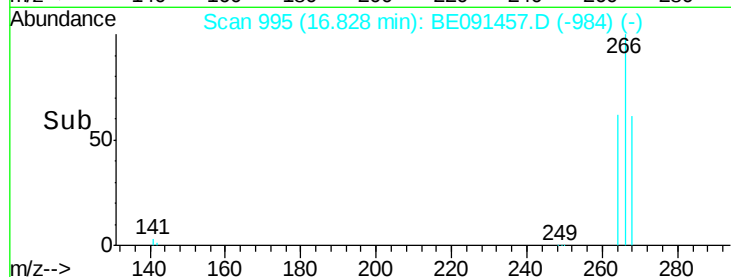
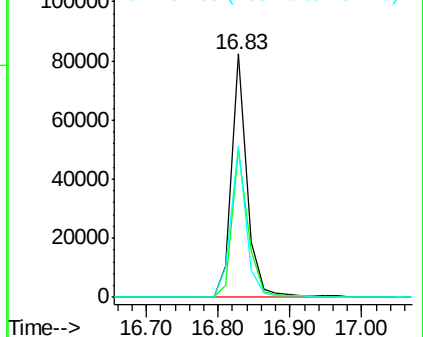
266 100

268 60.7 61.0 91.6#

264 62.5 45.7 68.5



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



#16

Phenanthrene

Concen: 8.43 ng

RT: 17.22 min Scan# 1022

Delta R.T. -0.01 min

Lab File: BE091457.D

Acq: 16 Mar 2016 23:45

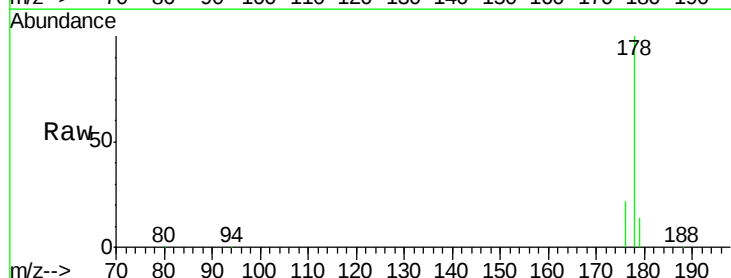
Tgt Ion:178 Resp: 1274003

Ion Ratio Lower Upper

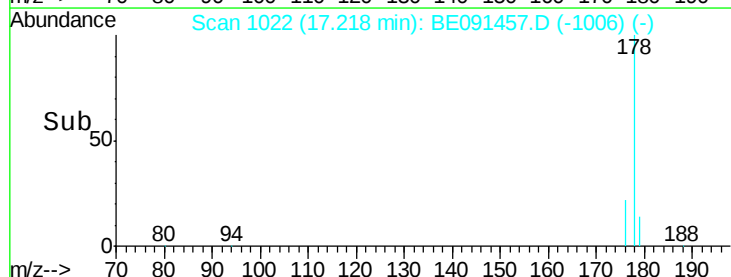
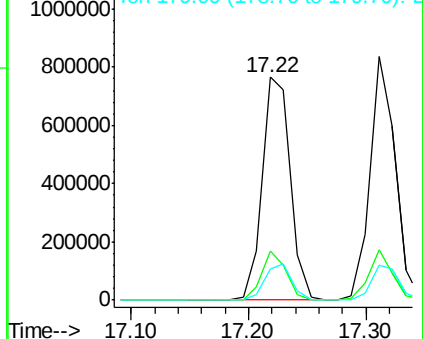
178 100

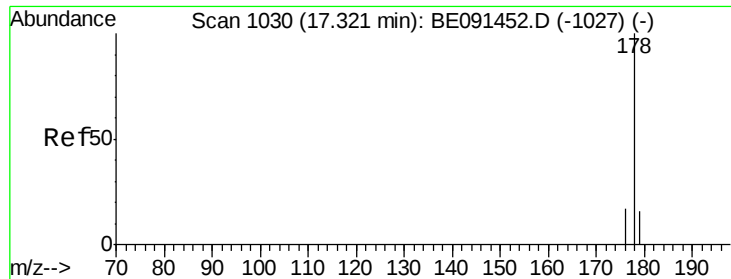
176 19.7 0.0 0.0#

179 15.7 0.0 0.0#



Abundance Ion 178.00 (177.70 to 178.70): E
Ion 176.00 (175.70 to 176.70): E
Ion 179.00 (178.70 to 179.70): E





#17

Anthracene

Concen: 5.81 ng

RT: 17.31 min Scan# 1030

Delta R.T. -0.01 min

Lab File: BE091457.D

Acq: 16 Mar 2016 23:45

Instrument :

BNA_E

ClientSampleId :

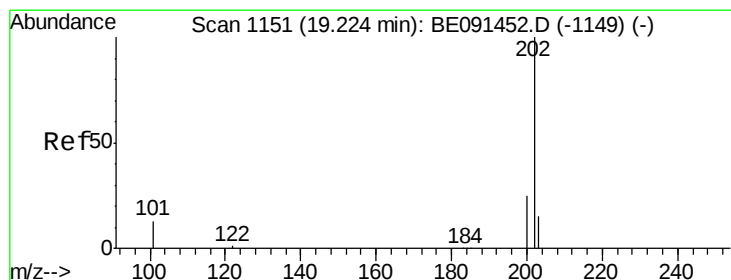
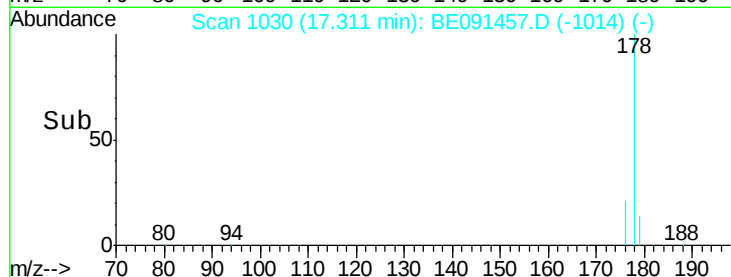
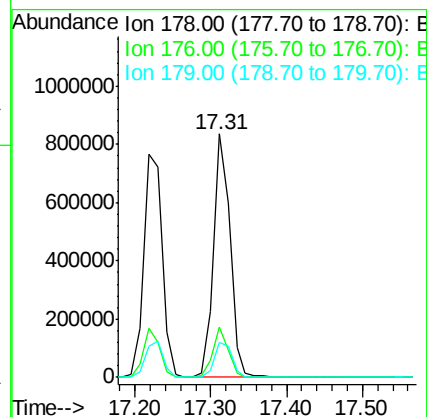
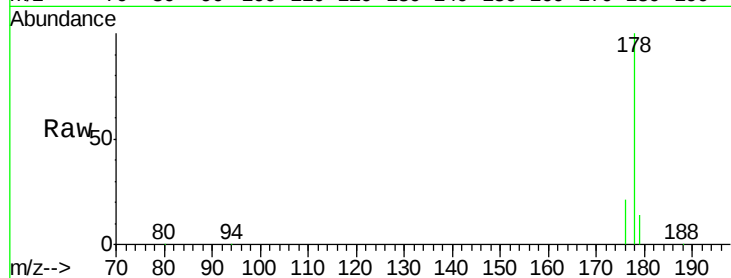
Tot Ion:178 Resp: 1255864

Ion Ratio Lower Upper

178 100

176 19.2 0.0 0.0#

179 15.7 0.0 0.0#



#18

Fluoranthene

Concen: 6.71 ng

RT: 19.22 min Scan# 1152

Delta R.T. 0.00 min

Lab File: BE091457.D

Acq: 16 Mar 2016 23:45

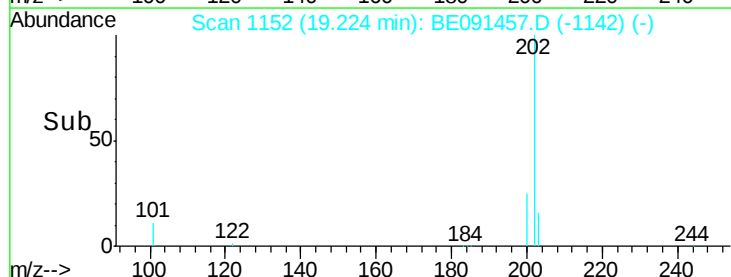
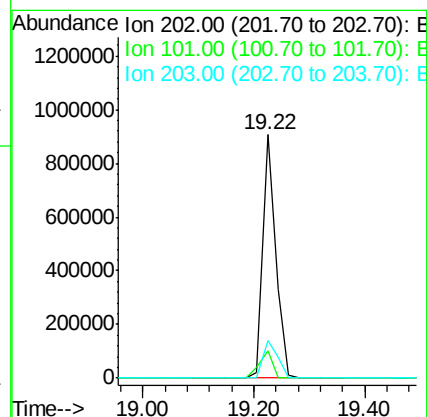
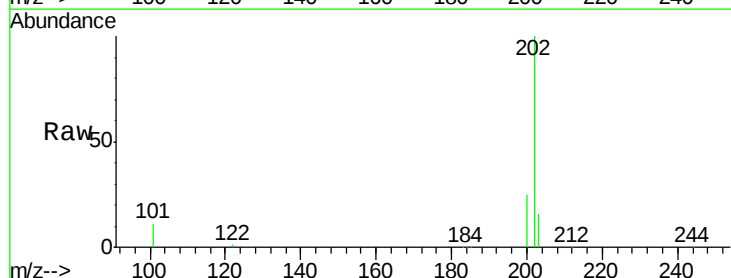
Tgt Ion:202 Resp: 1472936

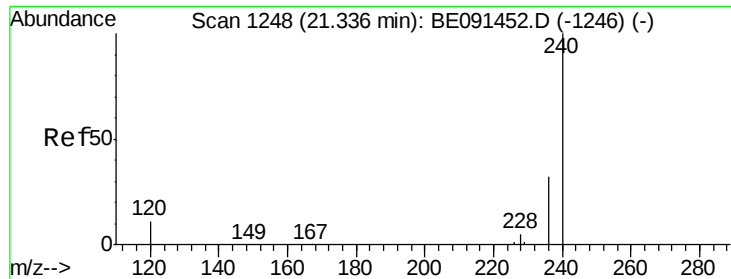
Ion Ratio Lower Upper

202 100

101 11.5 1.1 1.7#

203 17.6 1.0 1.6#

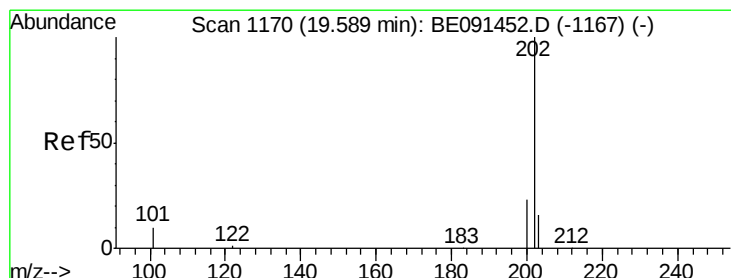
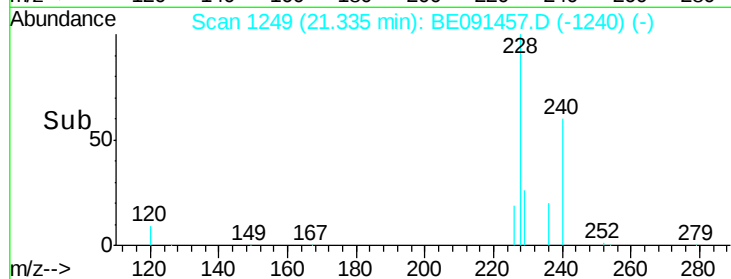
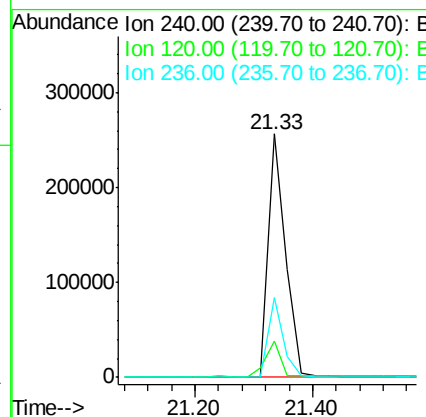
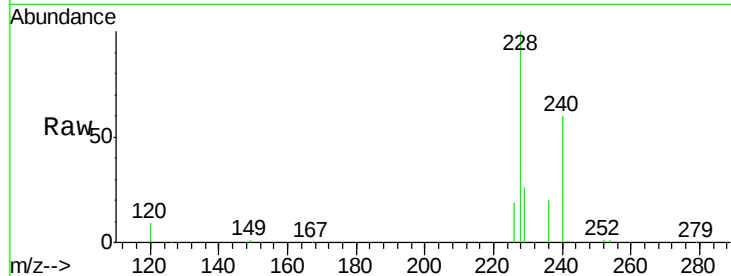




#19
Chrysene-d12
Concen: 5.00 ng
RT: 21.33 min Scan# 1249
Delta R.T. -0.00 min
Lab File: BE091457.D
Acq: 16 Mar 2016 23:45

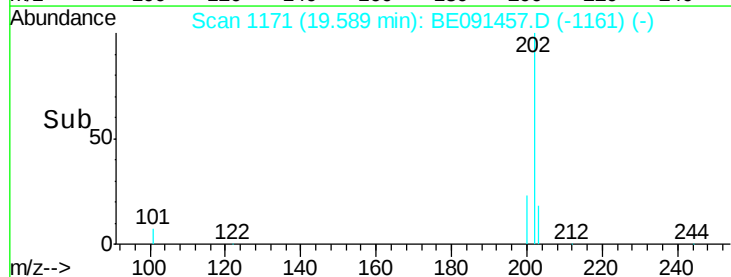
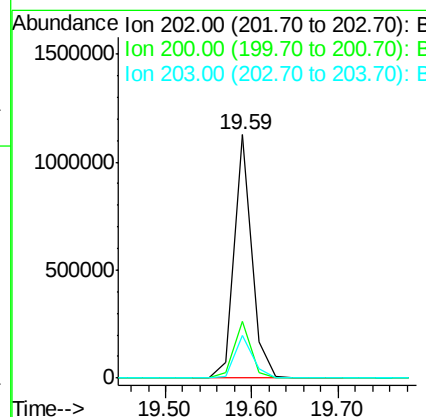
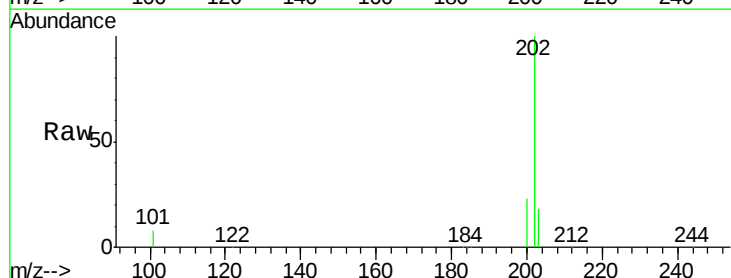
Instrument :
BNA_E
ClientSampleId :

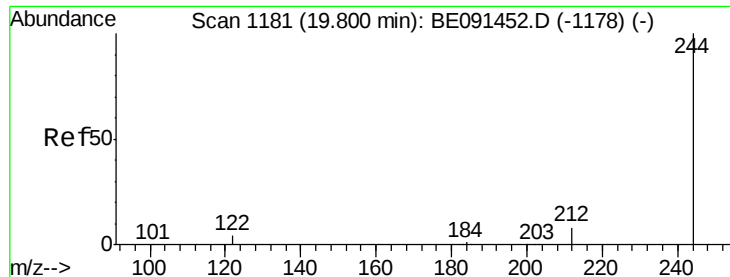
Tot Ion:240 Resp: 523583
Ion Ratio Lower Upper
240 100
120 15.0 8.8 13.2#
236 32.8 25.7 38.5



#20
Pyrene
Concen: 10.78 ng
RT: 19.59 min Scan# 1171
Delta R.T. 0.00 min
Lab File: BE091457.D
Acq: 16 Mar 2016 23:45

Tgt Ion:202 Resp: 1595983
Ion Ratio Lower Upper
202 100
200 22.5 0.0 0.0#
203 18.4 0.1 0.1#





#21

Terphenyl-d14

Concen: 10.23 ng

RT: 19.80 min Scan# 1182

Delta R.T. 0.00 min

Lab File: BE091457.D

Acq: 16 Mar 2016 23:45

Instrument :

BNA_E

ClientSampleId :

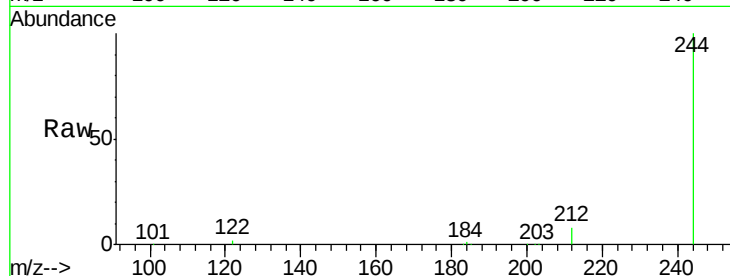
Tot Ion:244 Resp: 808267

Ion Ratio Lower Upper

244 100

212 7.6 6.6 10.0

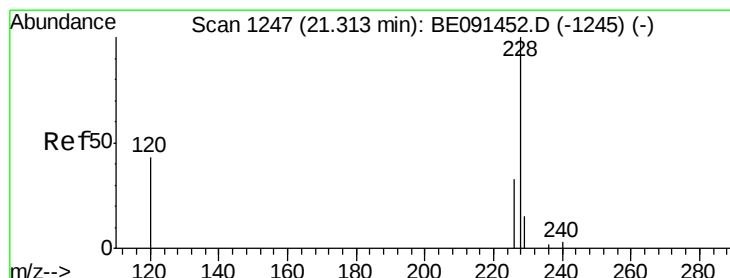
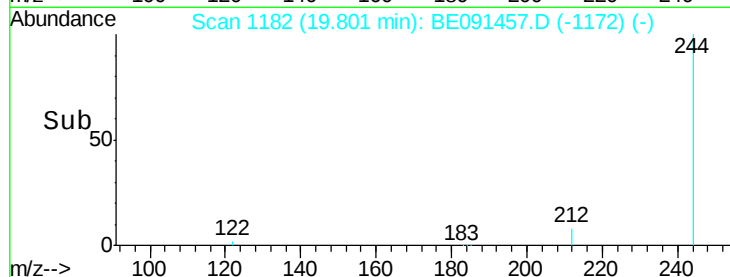
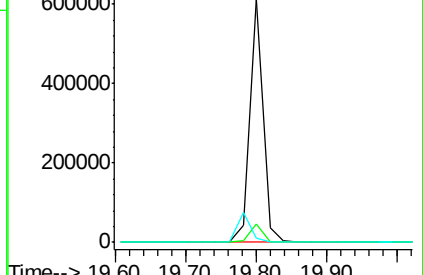
122 1.9 3.4 5.0#



Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E



#22

Benzo(a)anthracene

Concen: 9.54 ng

RT: 21.31 min Scan# 1248

Delta R.T. -0.00 min

Lab File: BE091457.D

Acq: 16 Mar 2016 23:45

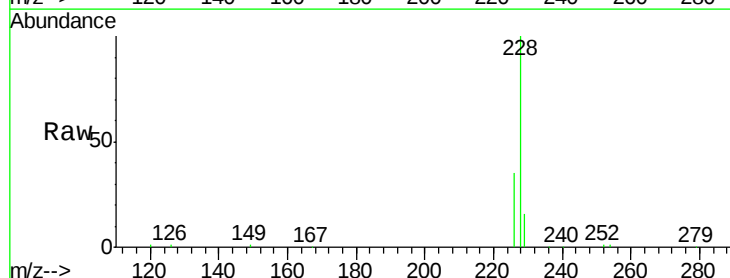
Tgt Ion:228 Resp: 1726162

Ion Ratio Lower Upper

228 100

226 34.5 27.1 40.7

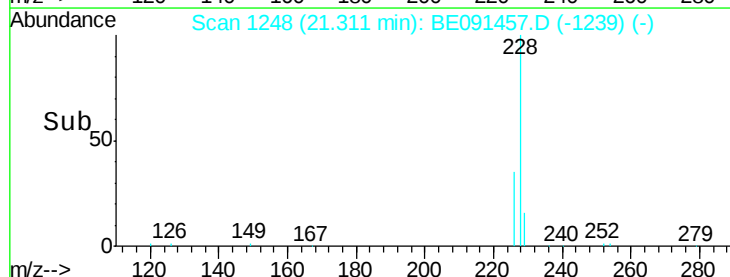
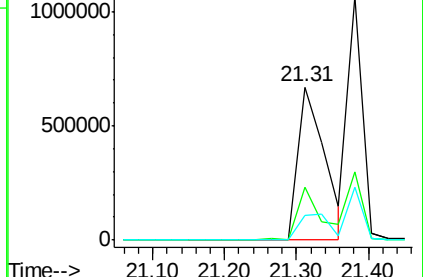
229 15.8 12.3 18.5

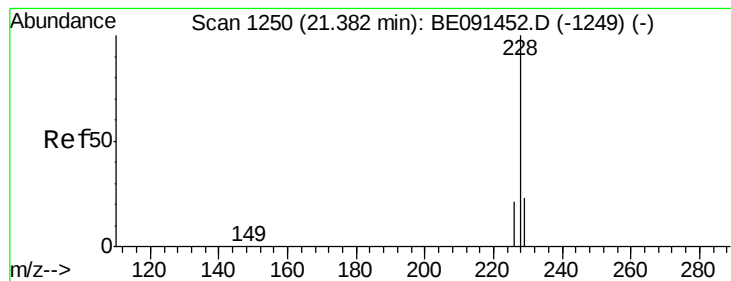


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#23

Chrysene

Concen: 9.21 ng

RT: 21.31 min Scan# 1248

Delta R.T. -0.07 min

Lab File: BE091457.D

Acq: 16 Mar 2016 23:45

Instrument :

BNA_E

ClientSampleId :

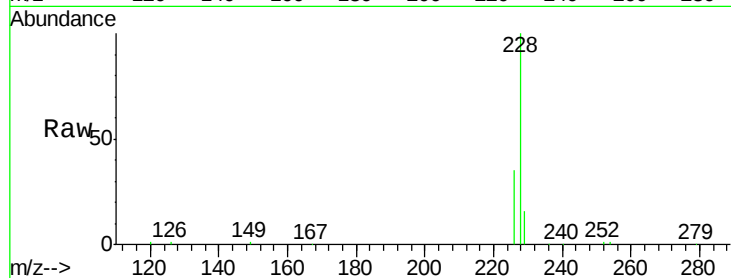
Tot Ion:228 Resp: 1725965

Ion Ratio Lower Upper

228 100

226 34.5 20.3 30.5#

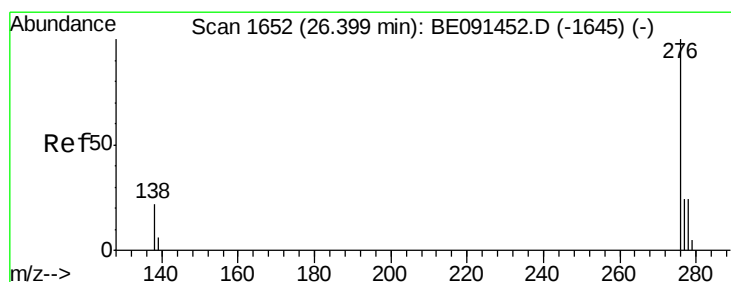
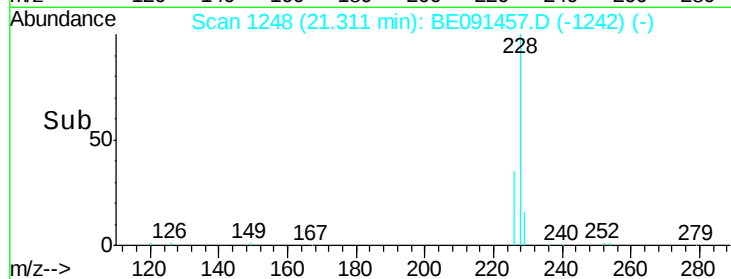
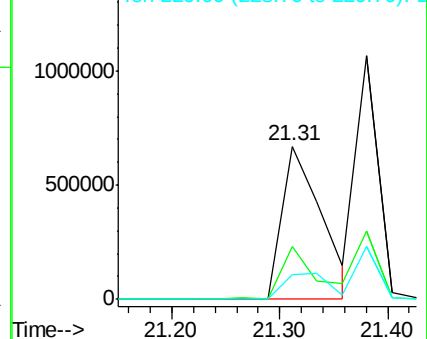
229 15.8 17.4 26.0#



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#24

Indeno(1,2,3-cd)pyrene

Concen: 11.91 ng

RT: 26.40 min Scan# 1653

Delta R.T. -0.00 min

Lab File: BE091457.D

Acq: 16 Mar 2016 23:45

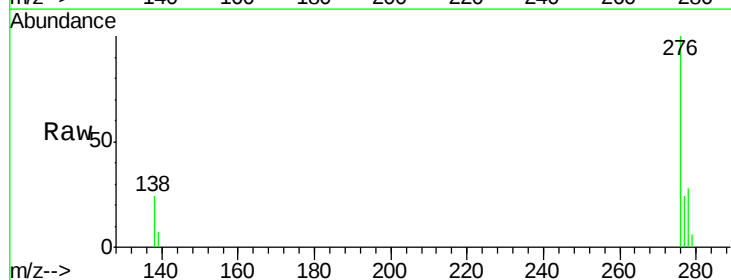
Tgt Ion:276 Resp: 1909725

Ion Ratio Lower Upper

276 100

138 26.0 0.0 0.0#

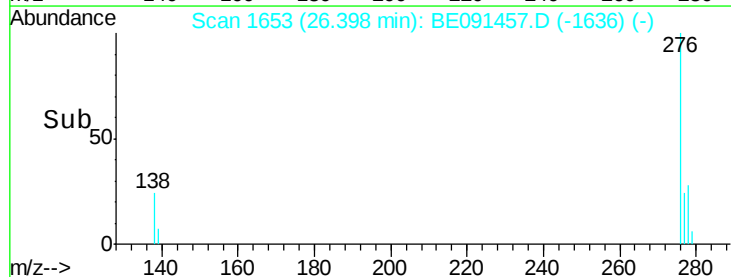
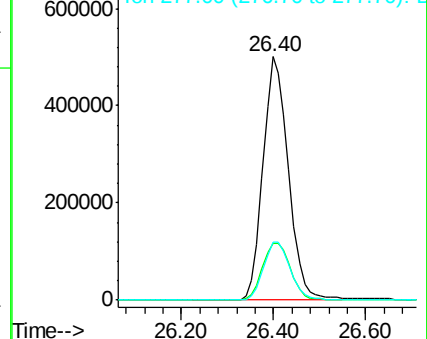
277 25.1 0.0 0.0#

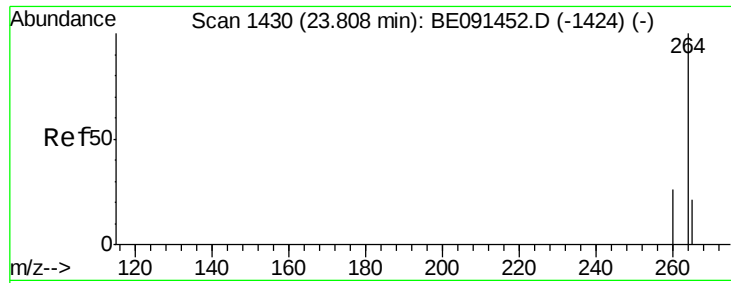


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

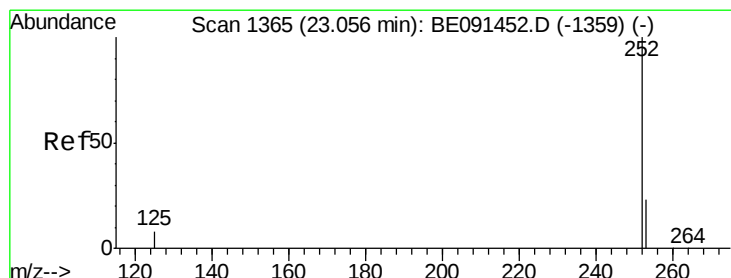
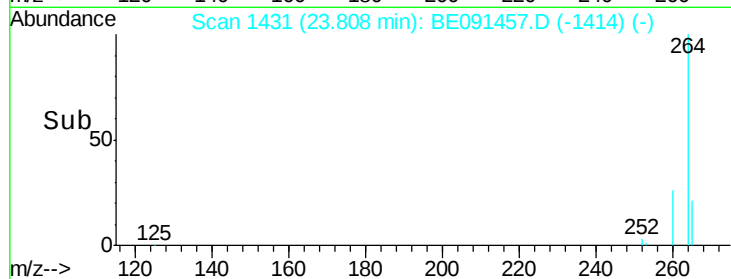
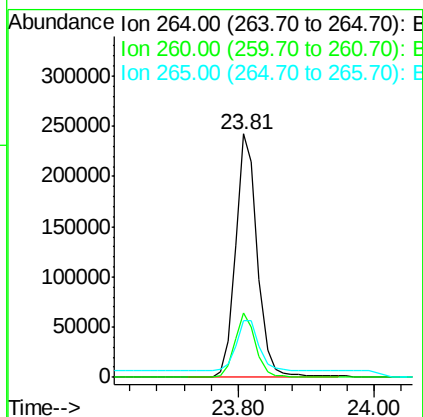
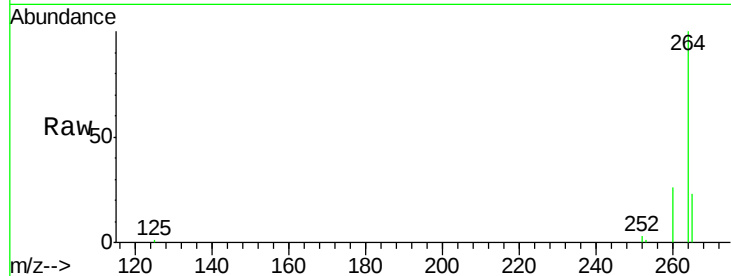




#25
Pervlene-d12
Concen: 5.00 ng
RT: 23.81 min Scan# 1431
Delta R.T. -0.00 min
Lab File: BE091457.D
Acq: 16 Mar 2016 23:45

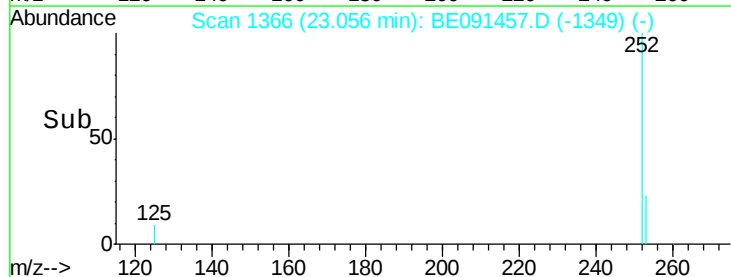
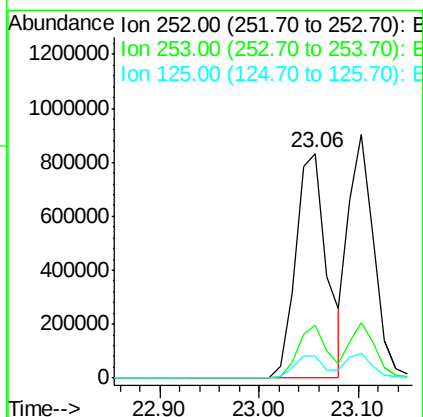
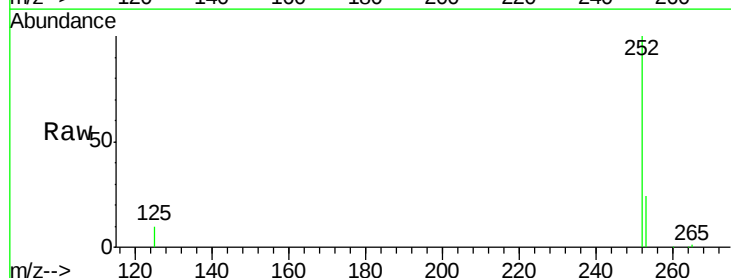
Instrument :
BNA_E
ClientSampleId :

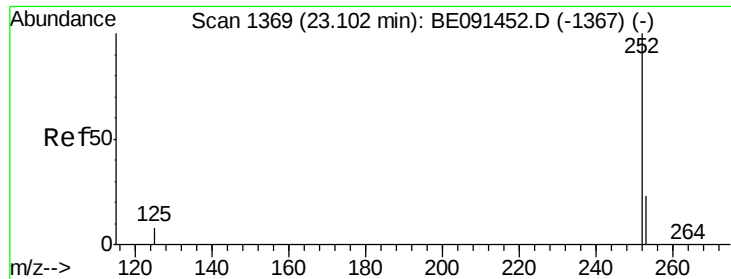
Tot Ion:264 Resp: 541371
Ion Ratio Lower Upper
264 100
260 26.5 20.7 31.1
265 23.4 19.4 29.2



#26
Benzo(b)fluoranthene
Concen: 11.44 ng
RT: 23.06 min Scan# 1366
Delta R.T. -0.00 min
Lab File: BE091457.D
Acq: 16 Mar 2016 23:45

Tgt Ion:252 Resp: 1809717
Ion Ratio Lower Upper
252 100
253 23.5 20.6 30.8
125 9.6 10.2 15.4#

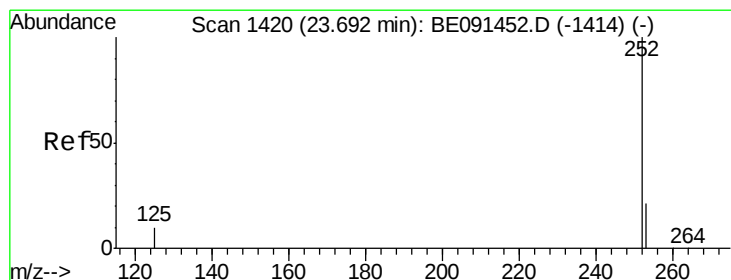
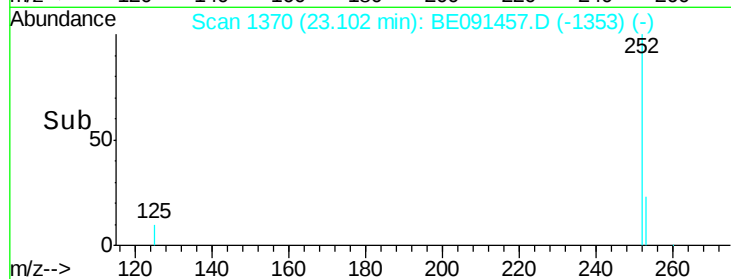
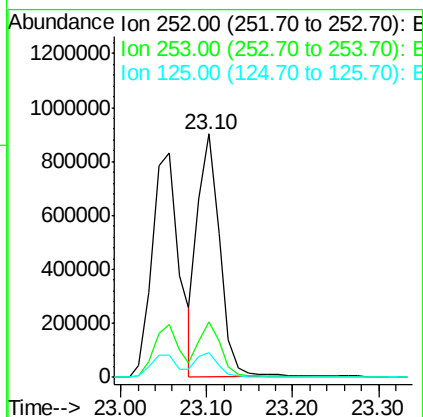
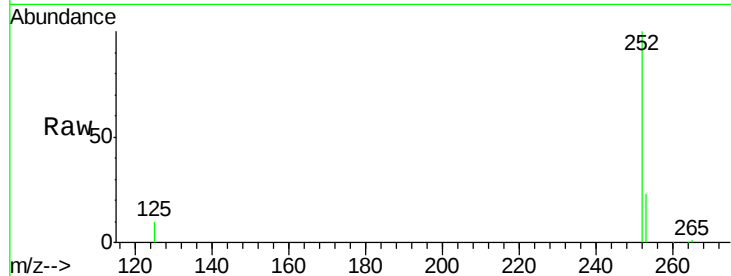




#27
Benzo(k)fluoranthene
Concen: 10.92 ng
RT: 23.10 min Scan# 1370
Delta R.T. -0.00 min
Lab File: BE091457.D
Acq: 16 Mar 2016 23:45

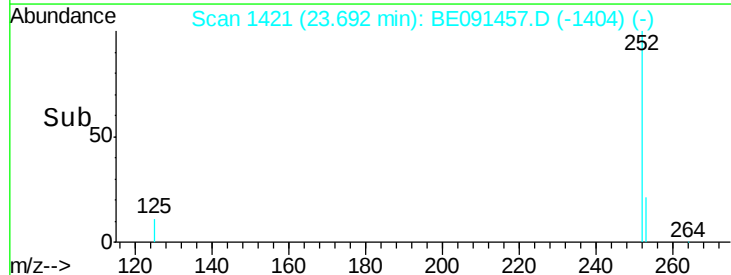
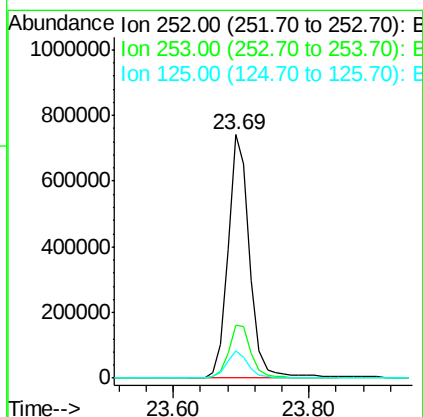
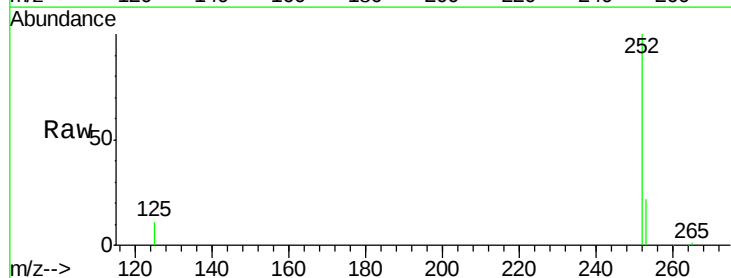
Instrument :
BNA_E
ClientSampleId :

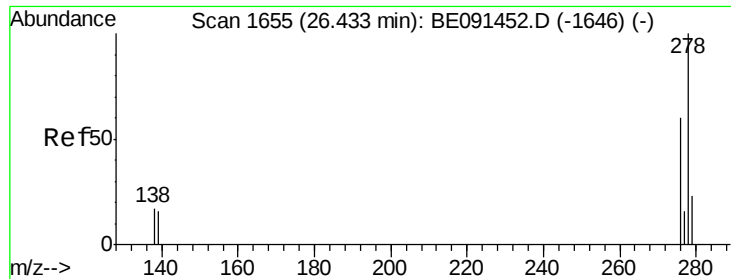
Tot Ion:252 Resp: 1594688
Ion Ratio Lower Upper
252 100
253 23.0 20.2 30.2
125 9.9 10.6 16.0#



#28
Benzo(a)pyrene
Concen: 12.27 ng
RT: 23.69 min Scan# 1421
Delta R.T. -0.00 min
Lab File: BE091457.D
Acq: 16 Mar 2016 23:45

Tgt Ion:252 Resp: 1636243
Ion Ratio Lower Upper
252 100
253 21.6 20.0 30.0
125 11.4 12.7 19.1#





#29

Dibenzo(a,h)anthracene

Concen: 12.42 ng

RT: 26.43 min Scan# 1656

Delta R.T. -0.00 min

Lab File: BE091457.D

Acq: 16 Mar 2016 23:45

Instrument :

BNA_E

ClientSampleId :

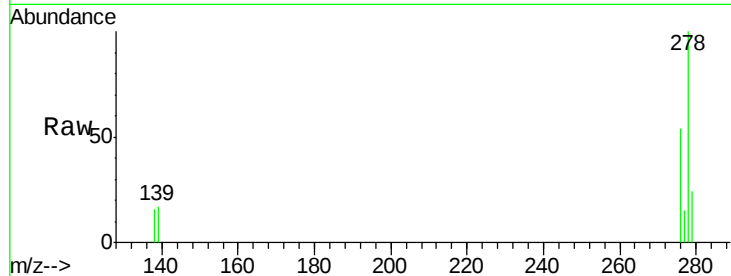
Tot Ion:278 Resp: 1590390

Ion Ratio Lower Upper

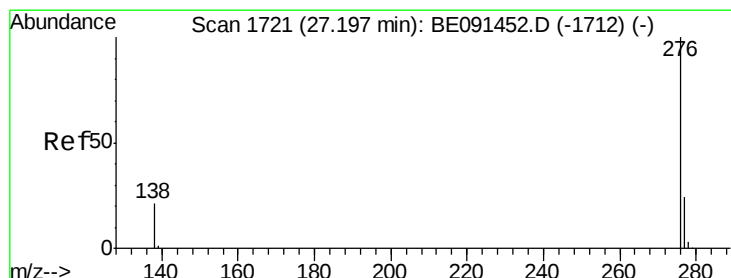
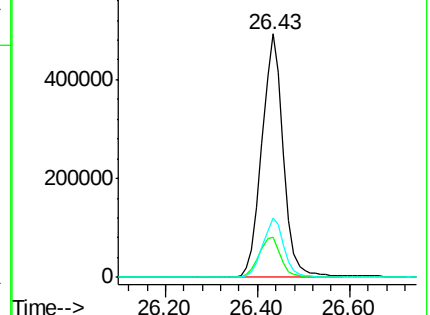
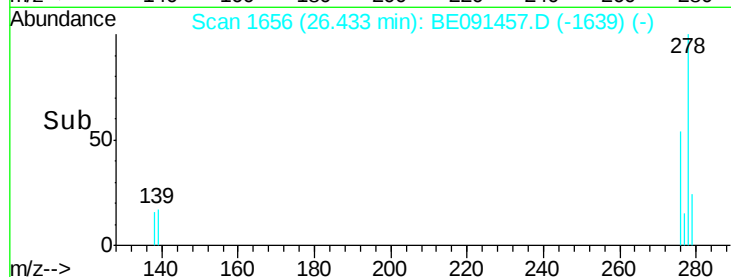
278 100

139 16.7 13.3 19.9

279 24.5 20.9 31.3



Abundance Ion 278.00 (277.70 to 278.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 279.00 (278.70 to 279.70): E



#30

Benzo(g,h,i)perylene

Concen: 11.83 ng

RT: 27.21 min Scan# 1723

Delta R.T. 0.01 min

Lab File: BE091457.D

Acq: 16 Mar 2016 23:45

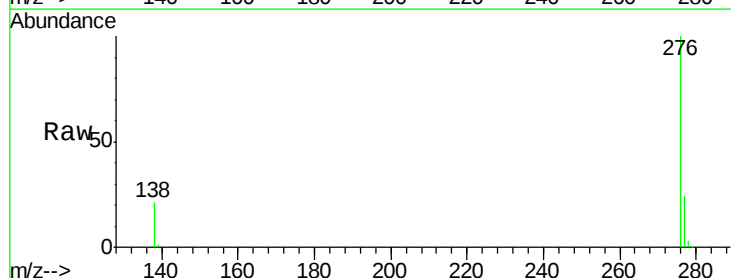
Tgt Ion:276 Resp: 1621715

Ion Ratio Lower Upper

276 100

277 24.0 19.8 29.8

138 21.0 17.6 26.4



Abundance Ion 276.00 (275.70 to 276.70): E
Ion 277.00 (276.70 to 277.70): E
Ion 138.00 (137.70 to 138.70): E

