

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE020615\
 Data File : BE089573.D
 Acq On : 8 Feb 2015 00:59
 Operator : TP/IZ
 Sample : SSTDCCC001
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :

Quant Time: Feb 09 00:24:43 2015
 Quant Method : Z:\HPCHEM1\BNA_E\methods\SIMPAH-BE020615.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Sat Feb 07 04:07:57 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	9.42	152	28185	5.00	ng	0.00
2) Naphthalene-d8	12.33	136	127331	5.00	ng	0.00
6) Acenaphthene-d10	16.51	164	69395	5.00	ng	0.00
11) Phenanthrene-d10	19.84	188	134466	5.00	ng	0.00
16) Chrysene-d12	23.72	240	149448	5.00	ng	0.00
22) Perylene-d12	25.41	264	131820	5.00	ng	0.00

System Monitoring Compounds						
3) Nitrobenzene-d5	10.68	82	17453	2.06	ng	0.00
7) 2-Fluorobiphenyl	14.96	172	58224	3.15	ng	0.00
18) Terphenyl-d14	22.36	244	76791	3.90	ng	0.00

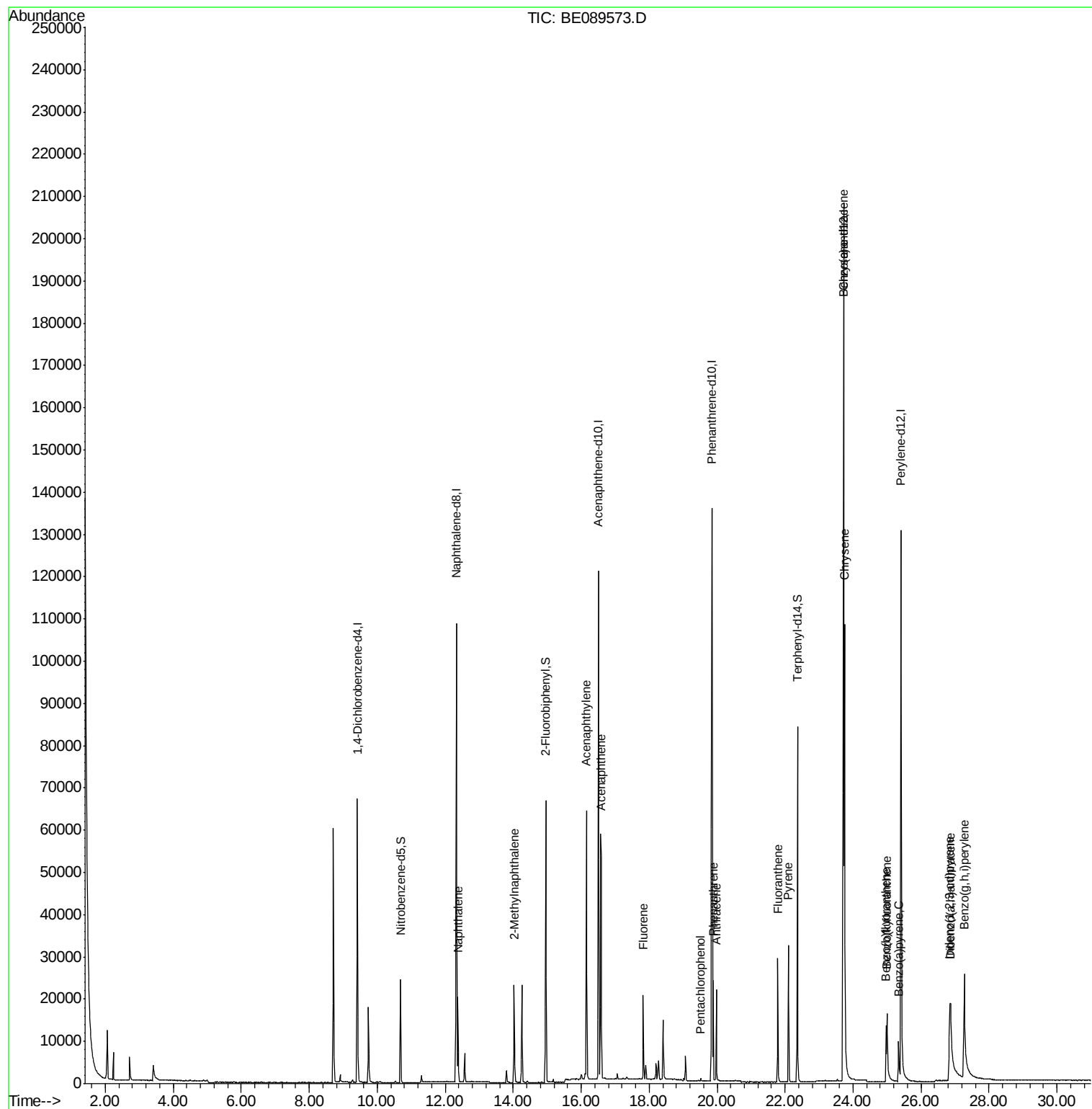
Target Compounds					Qvalue	
4) Naphthalene	12.38	128	22849	0.80	ng	99
5) 2-Methylnaphthalene	14.03	142	13733	0.84	ng	94
8) Acenaphthylene	16.16	152	79487	0.68	ng	100
9) Acenaphthene	16.59	154	12555	0.68	ng	99
10) Fluorene	17.83	166	13652	0.69	ng	99
12) Pentachlorophenol	19.51	266	510	1.02	ng	93
13) Phenanthrene	19.89	178	22640	0.68	ng	99
14) Anthracene	19.98	178	19549	0.69	ng	99
15) Fluoranthene	21.78	202	21403	0.69	ng	97
17) Pyrene	22.10	202	23072	0.72	ng	99
19) Benzo(a)anthracene	23.70	228	82940	0.62	ng	94
20) Chrysene	23.75	228	97690	0.72	ng	99
21) Indeno(1,2,3-cd)pyrene	26.84	276	62404	0.33	ng	# 92
23) Benzo(b)fluoranthene	24.97	252	12623	0.49	ng	97
24) Benzo(k)fluoranthene	25.00	252	24302	0.76	ng	97
25) Benzo(a)pyrene	25.34	252	12430	0.49	ng	97
26) Dibenzo(a,h)anthracene	26.87	278	12300	0.39	ng	99
27) Benzo(g,h,i)perylene	27.27	276	58184	0.46	ng	95

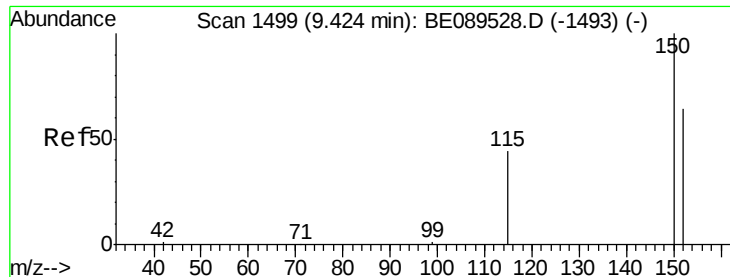
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 9.42 min Scan# 1498

Delta R.T. -0.00 min

Lab File: BE089573.D

Acq: 8 Feb 2015 00:59

Instrument :

BNA_E

ClientSampleId :

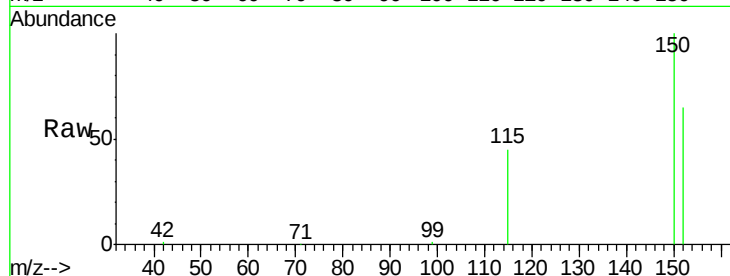
Tgt Ion:152 Resp: 28185

Ion Ratio Lower Upper

152 100

150 153.0 125.7 188.5

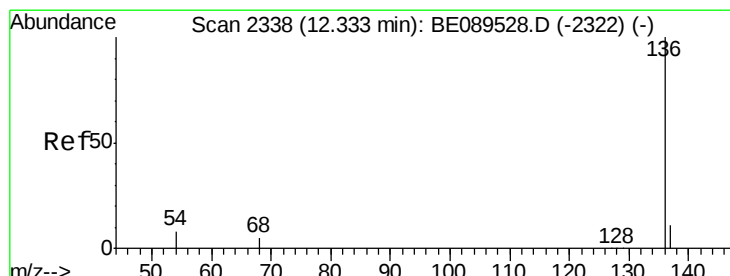
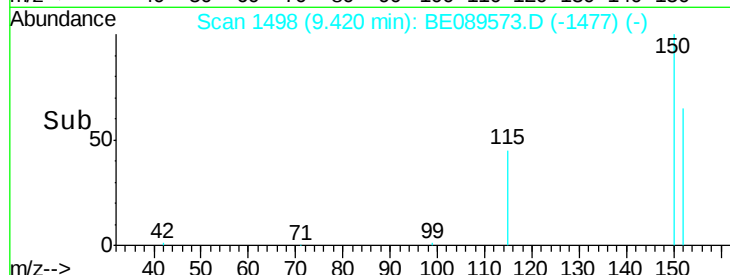
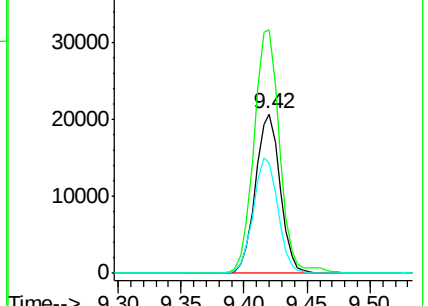
115 69.5 55.6 83.4



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

Naphthalene-d8

Concen: 5.00 ng

RT: 12.33 min Scan# 2337

Delta R.T. -0.00 min

Lab File: BE089573.D

Acq: 8 Feb 2015 00:59

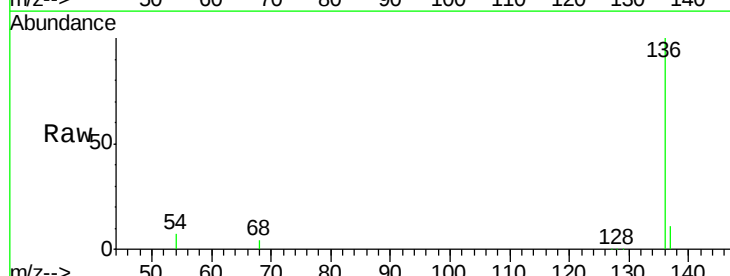
Tgt Ion:136 Resp: 127331

Ion Ratio Lower Upper

136 100

137 10.8 8.7 13.1

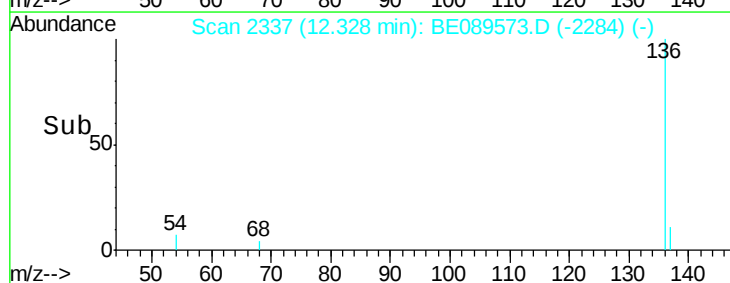
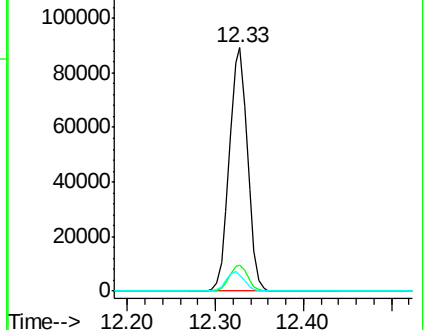
54 6.7 6.1 9.1



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





#3

Nitrobenzene-d5

Concen: 2.06 ng

RT: 10.68 min Scan# 1893

Delta R.T. -0.01 min

Lab File: BE089573.D

Acq: 8 Feb 2015 00:59

Instrument :

BNA_E

ClientSampleId :

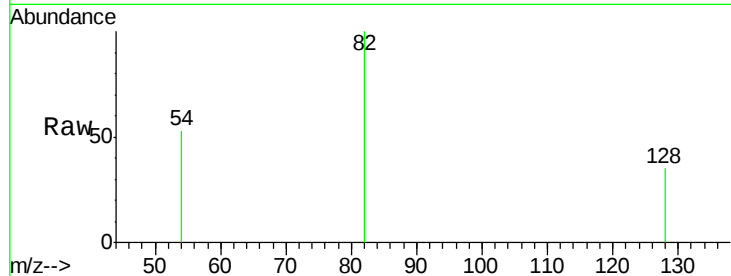
Tgt Ion: 82 Resp: 17453

Ion Ratio Lower Upper

82 100

128 35.1 30.2 45.4

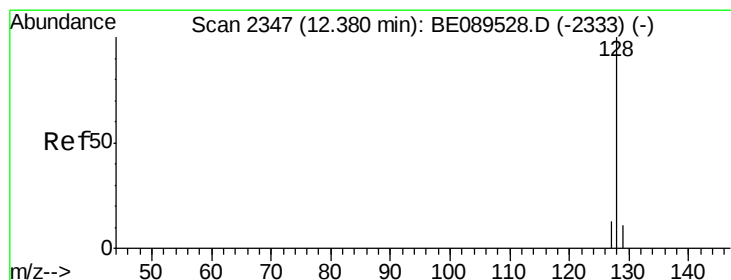
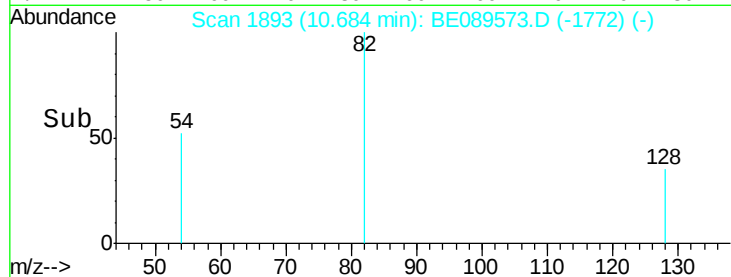
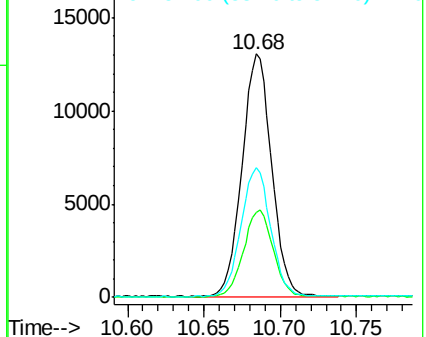
54 53.3 40.6 60.8



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



#4

Naphthalene

Concen: 0.80 ng

RT: 12.38 min Scan# 2346

Delta R.T. -0.00 min

Lab File: BE089573.D

Acq: 8 Feb 2015 00:59

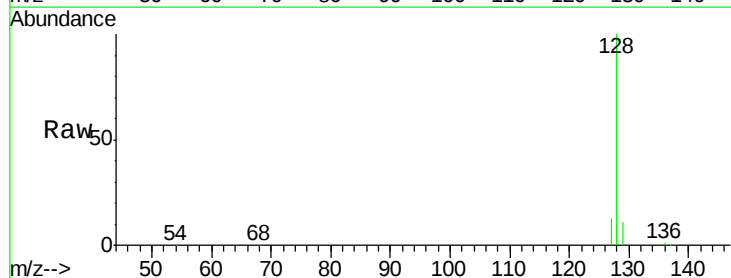
Tgt Ion: 128 Resp: 22849

Ion Ratio Lower Upper

128 100

129 11.2 9.1 13.7

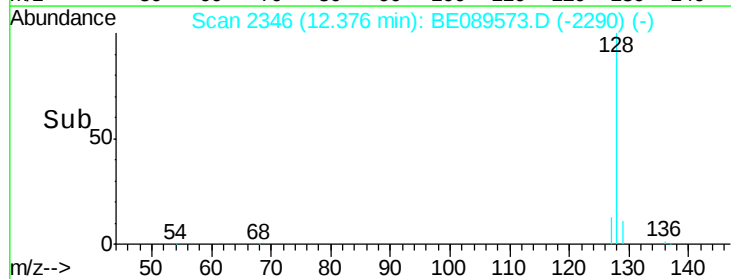
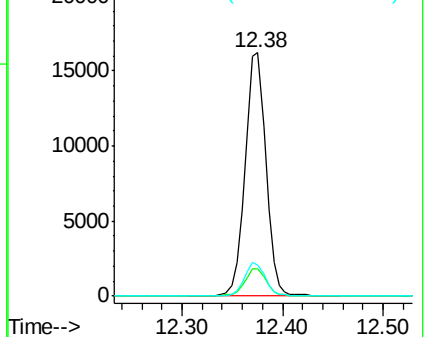
127 12.9 10.5 15.7



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





#5

2-Methylnaphthalene

Concen: 0.84 ng

RT: 14.03 min Scan# 2677

Delta R.T. -0.01 min

Lab File: BE089573.D

Acq: 8 Feb 2015 00:59

Instrument :

BNA_E

ClientSampled :

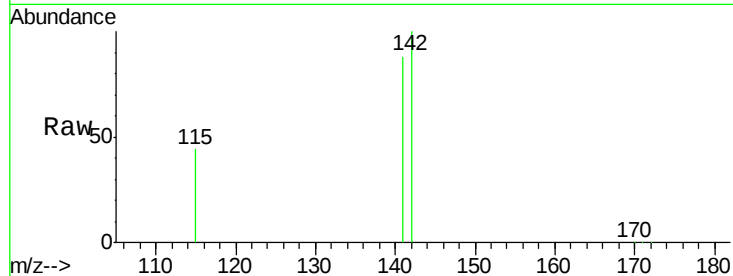
Tgt Ion:142 Resp: 13733

Ion Ratio Lower Upper

142 100

141 87.7 67.0 100.6

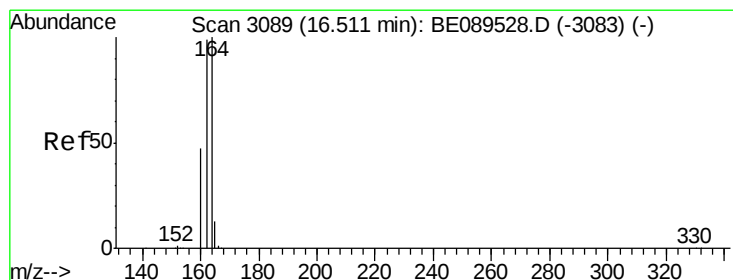
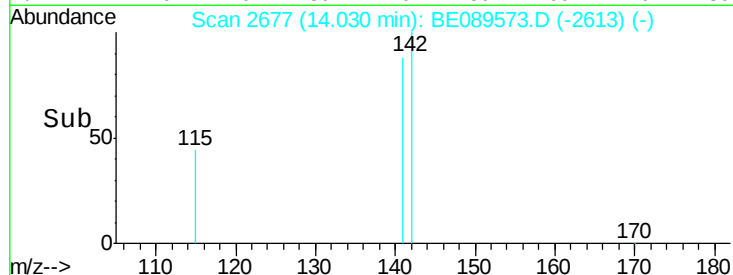
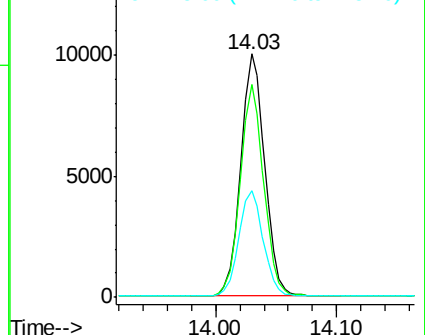
115 44.0 30.6 45.8



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



#6

Acenaphthene-d10

Concen: 5.00 ng

RT: 16.51 min Scan# 3089

Delta R.T. -0.00 min

Lab File: BE089573.D

Acq: 8 Feb 2015 00:59

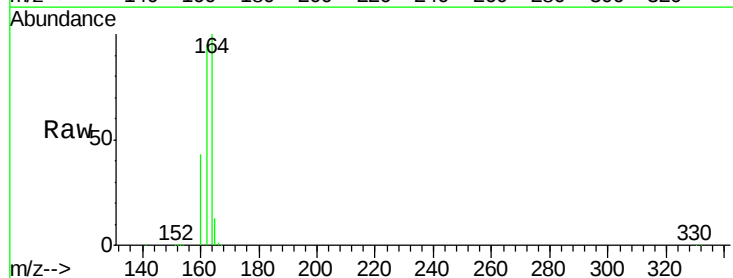
Tgt Ion:164 Resp: 69395

Ion Ratio Lower Upper

164 100

162 95.4 79.5 119.3

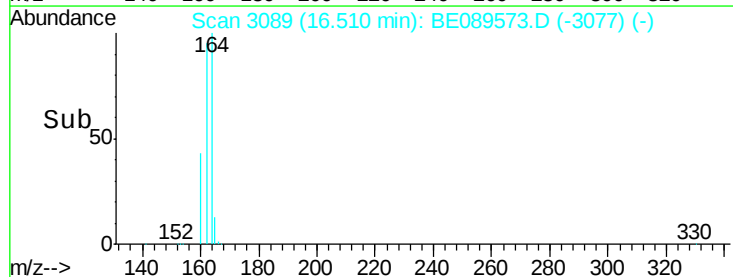
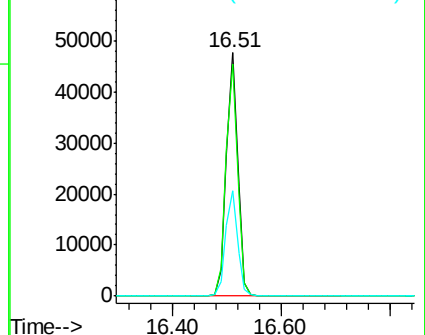
160 43.3 37.6 56.4



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





#7

2-Fluorobiphenyl

Concen: 3.15 ng

RT: 14.96 min Scan# 2881

Delta R.T. -0.01 min

Lab File: BE089573.D

Acq: 8 Feb 2015 00:59

Instrument :

BNA_E

ClientSampleId :

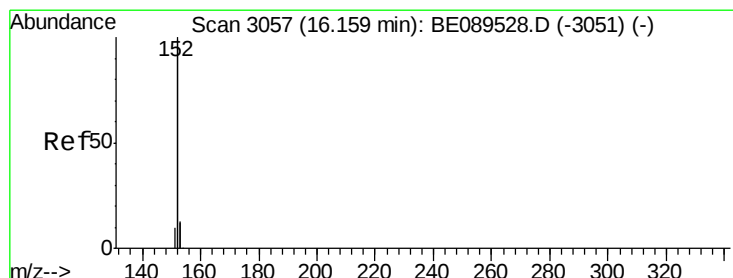
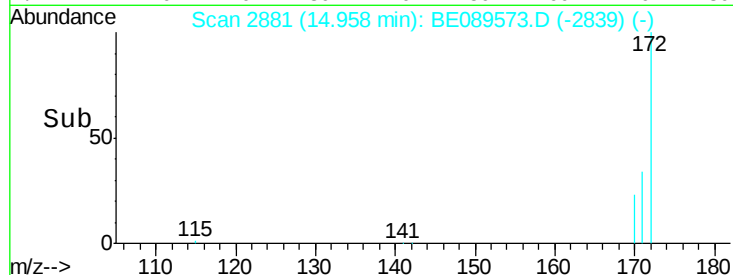
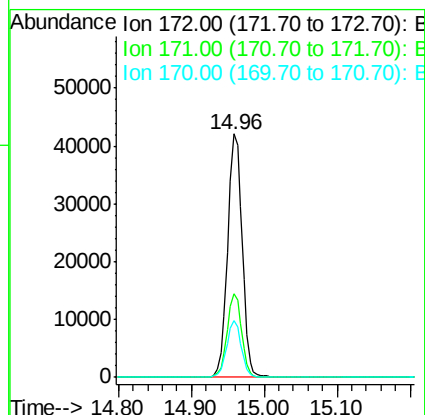
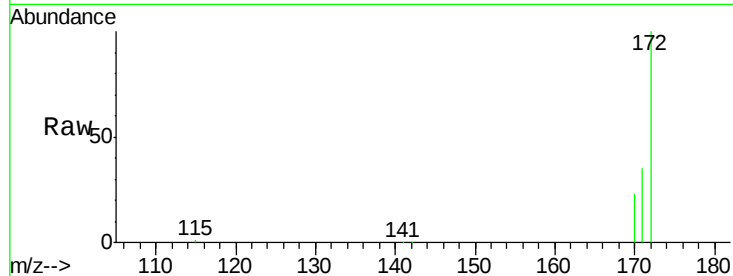
Tgt Ion:172 Resp: 58224

Ion Ratio Lower Upper

172 100

171 34.5 27.7 41.5

170 23.3 18.3 27.5



#8

Acenaphthylene

Concen: 0.68 ng

RT: 16.16 min Scan# 3057

Delta R.T. -0.00 min

Lab File: BE089573.D

Acq: 8 Feb 2015 00:59

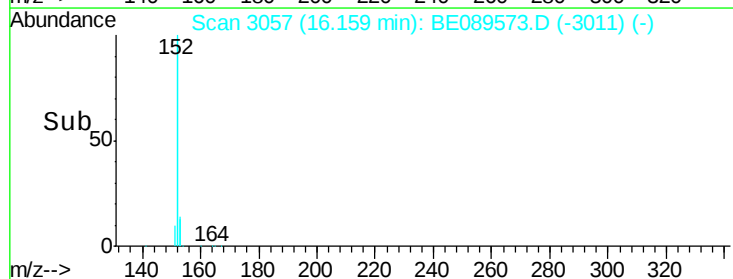
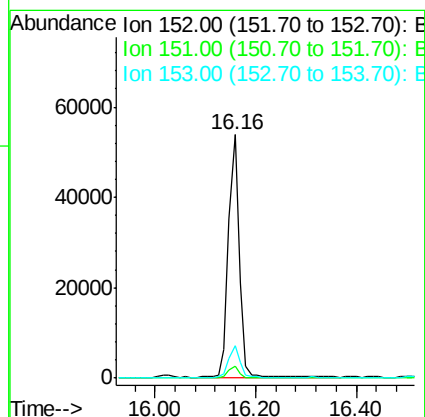
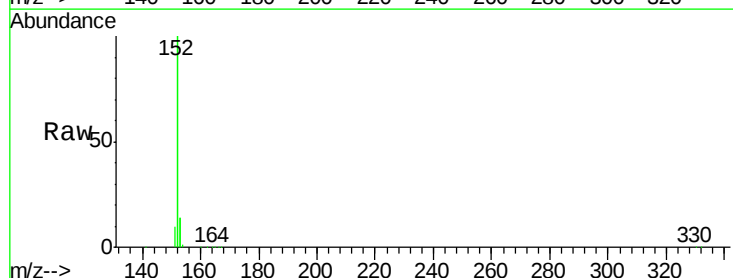
Tgt Ion:152 Resp: 79487

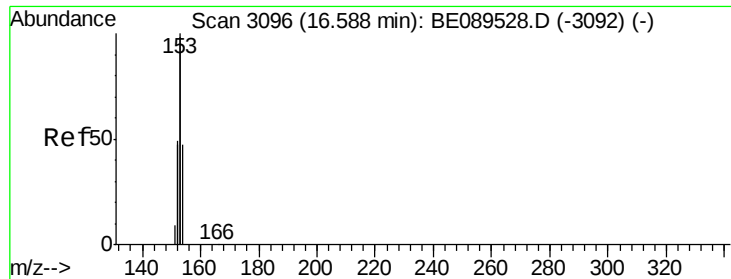
Ion Ratio Lower Upper

152 100

151 5.1 4.0 6.0

153 13.0 10.6 15.8





#9

Acenaphthene

Concen: 0.68 ng

RT: 16.59 min Scan# 3096

Delta R.T. -0.00 min

Lab File: BE089573.D

Acq: 8 Feb 2015 00:59

Instrument :

BNA_E

ClientSampleId :

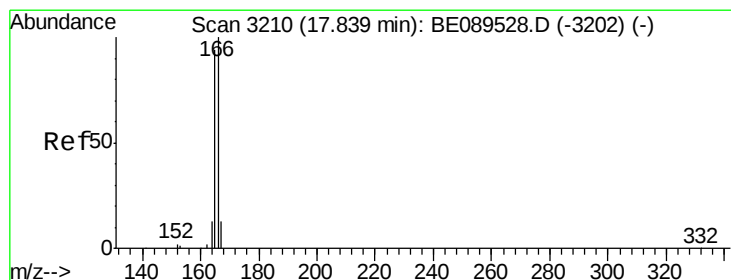
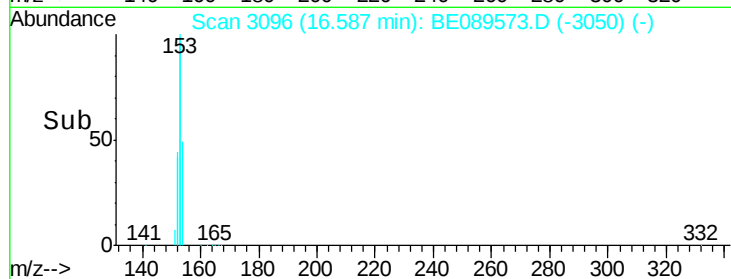
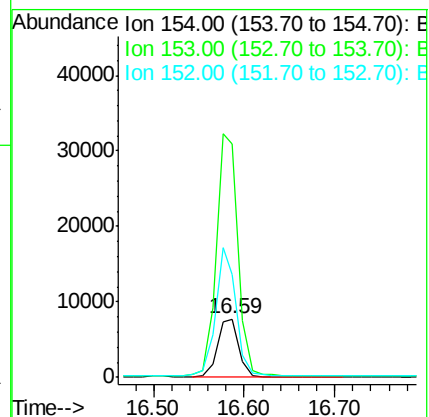
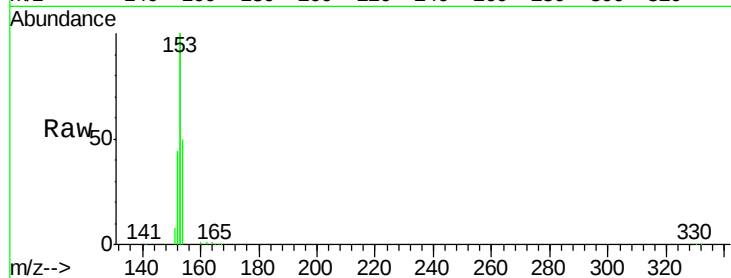
Tgt Ion:154 Resp: 12555

Ion Ratio Lower Upper

154 100

153 426.8 340.8 511.2

152 209.3 165.5 248.3



#10

Fluorene

Concen: 0.69 ng

RT: 17.83 min Scan# 3209

Delta R.T. -0.01 min

Lab File: BE089573.D

Acq: 8 Feb 2015 00:59

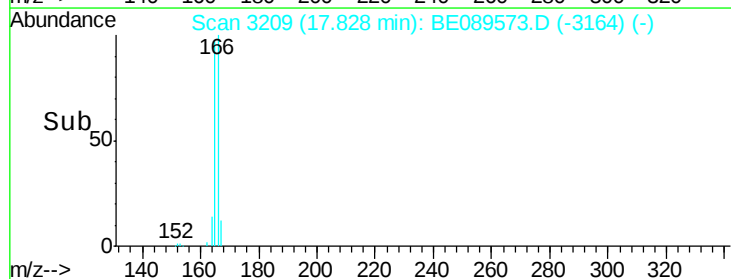
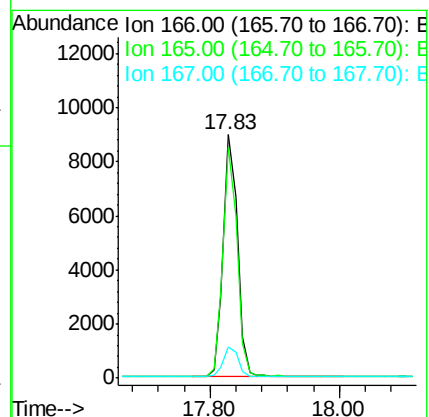
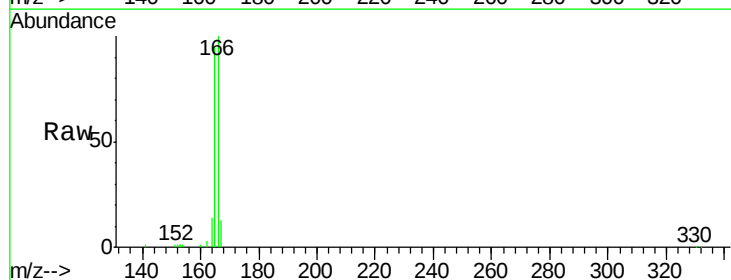
Tgt Ion:166 Resp: 13652

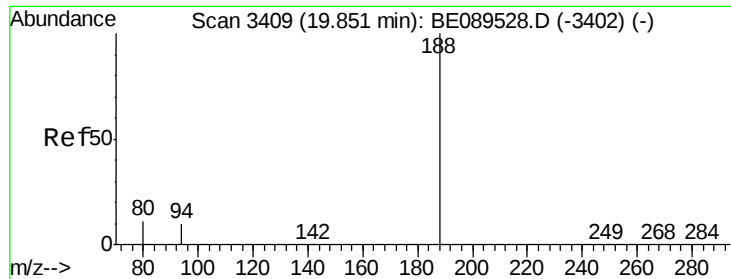
Ion Ratio Lower Upper

166 100

165 93.6 75.5 113.3

167 13.2 10.9 16.3

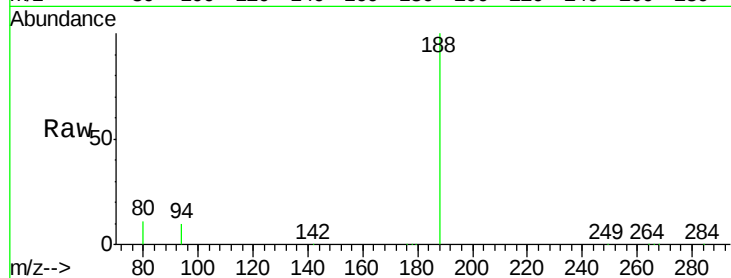




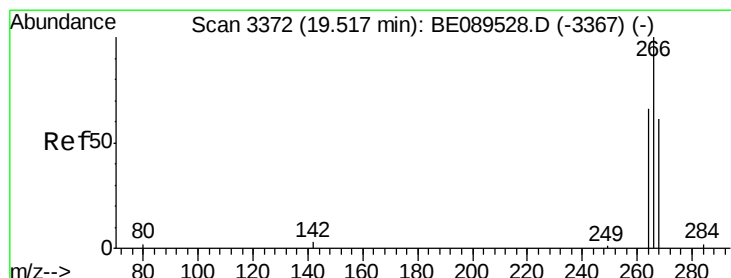
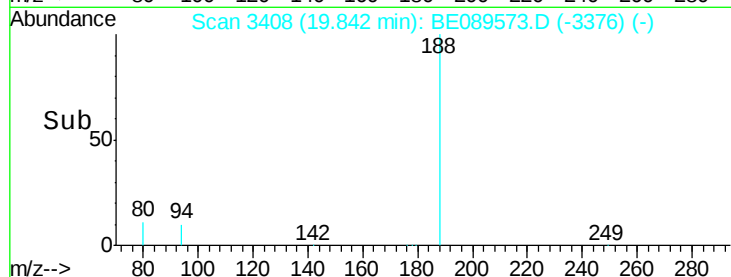
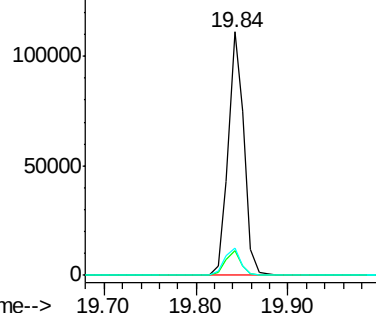
#11
Phenanthrene-d10
Concen: 5.00 ng
RT: 19.84 min Scan# 3408
Delta R.T. -0.01 min
Lab File: BE089573.D
Acq: 8 Feb 2015 00:59

Instrument :
BNA_E
ClientSampled :

Tgt Ion:188 Resp: 134466
Ion Ratio Lower Upper
188 100
94 10.3 8.4 12.6
80 11.3 8.6 12.8

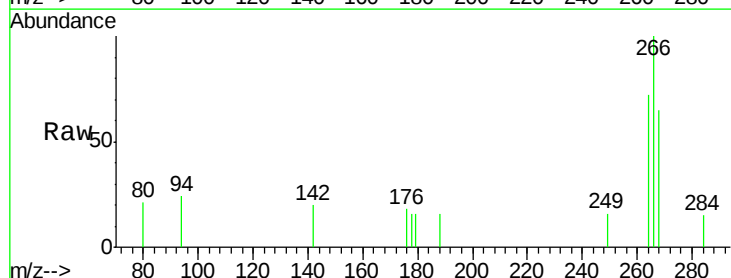


Abundance Ion 188.00 (187.70 to 188.70): E
Ion 94.00 (93.70 to 94.70): BE0
Ion 80.00 (79.70 to 80.70): BE0

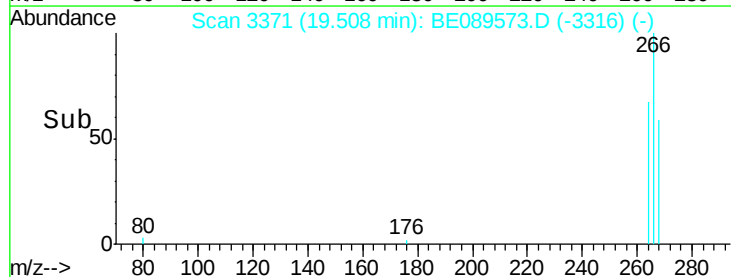
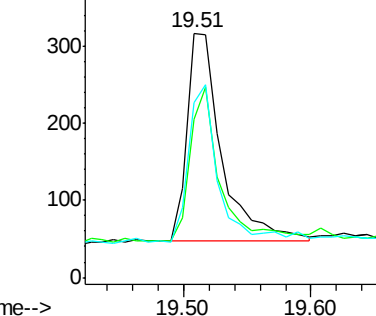


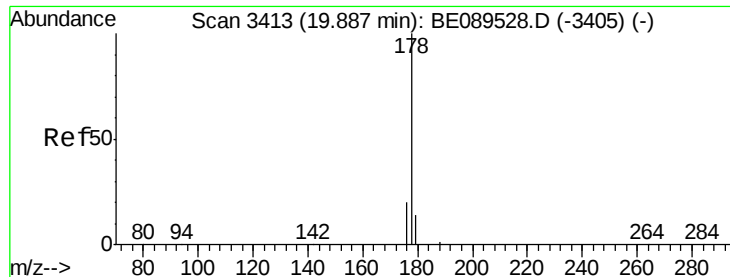
#12
Pentachlorophenol
Concen: 1.02 ng
RT: 19.51 min Scan# 3371
Delta R.T. -0.01 min
Lab File: BE089573.D
Acq: 8 Feb 2015 00:59

Tgt Ion:266 Resp: 510
Ion Ratio Lower Upper
266 100
268 64.9 57.9 86.9
264 71.5 60.2 90.4



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

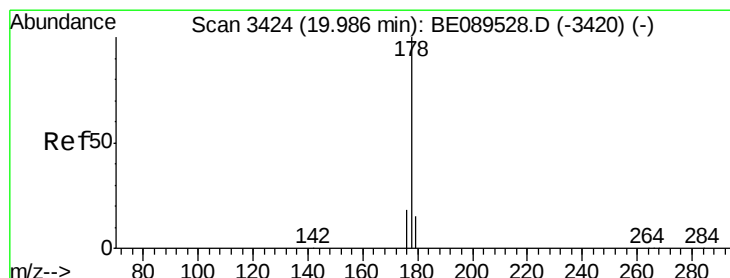
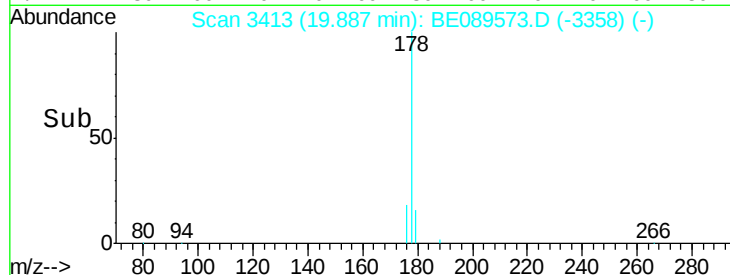
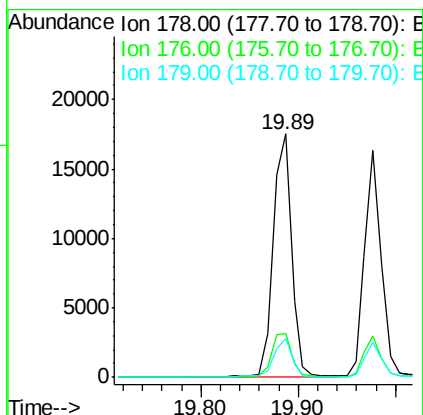
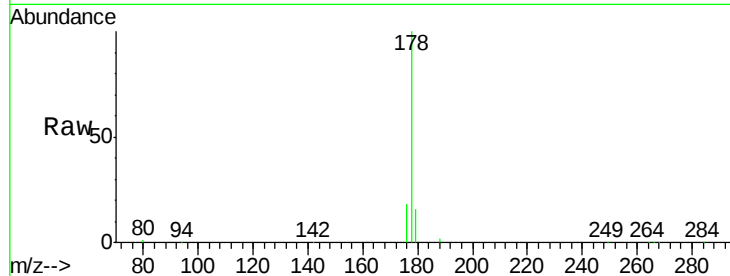




#13
Phenanthrene
Concen: 0.68 ng
RT: 19.89 min Scan# 3413
Delta R.T. 0.00 min
Lab File: BE089573.D
Acq: 8 Feb 2015 00:59

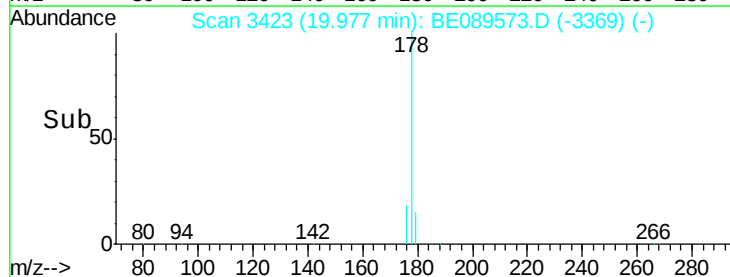
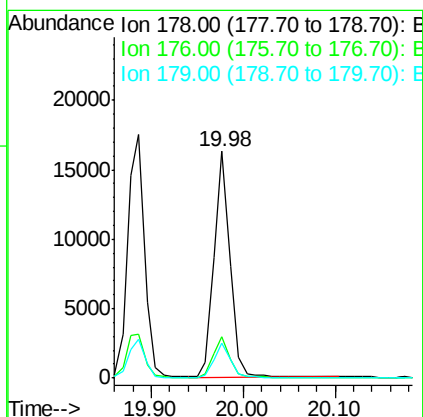
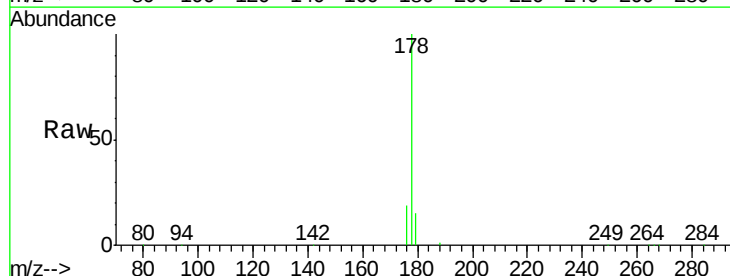
Instrument :
BNA_E
ClientSampleId :

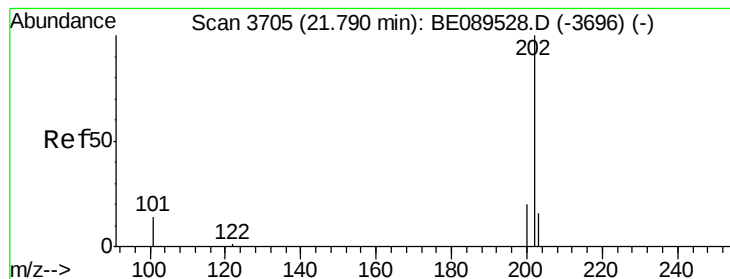
Tgt Ion:178 Resp: 22640
Ion Ratio Lower Upper
178 100
176 19.1 15.4 23.0
179 15.6 12.2 18.2



#14
Anthracene
Concen: 0.69 ng
RT: 19.98 min Scan# 3423
Delta R.T. -0.01 min
Lab File: BE089573.D
Acq: 8 Feb 2015 00:59

Tgt Ion:178 Resp: 19549
Ion Ratio Lower Upper
178 100
176 18.4 14.5 21.7
179 14.8 12.2 18.2





#15

Fluoranthene

Concen: 0.69 ng

RT: 21.78 min Scan# 3704

Delta R.T. -0.01 min

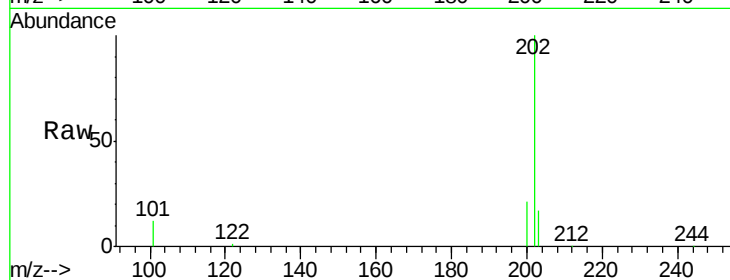
Lab File: BE089573.D

Acq: 8 Feb 2015 00:59

Instrument :

BNA_E

ClientSampled :



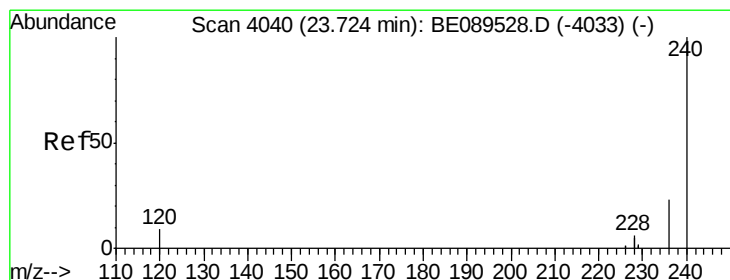
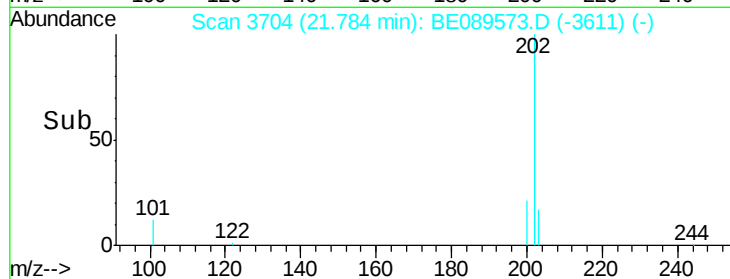
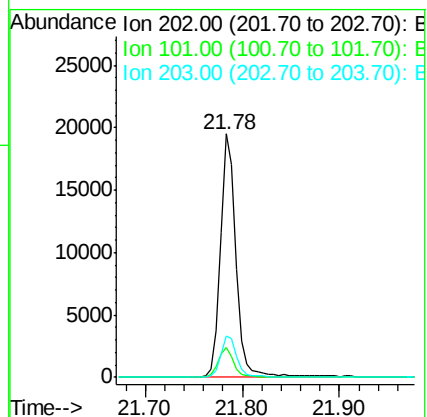
Tgt Ion: 202 Resp: 21403

Ion Ratio Lower Upper

202 100

101 11.7 11.6 17.4

203 17.1 13.6 20.4



#16

Chrysene-d12

Concen: 5.00 ng

RT: 23.72 min Scan# 4039

Delta R.T. -0.01 min

Lab File: BE089573.D

Acq: 8 Feb 2015 00:59

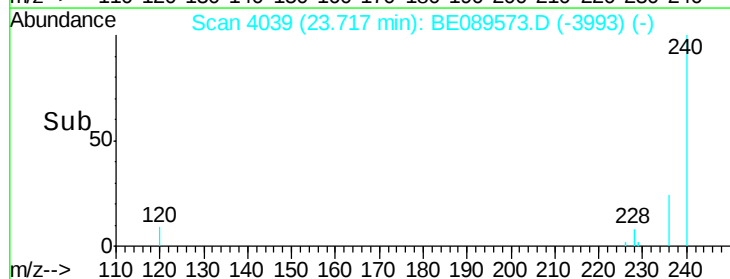
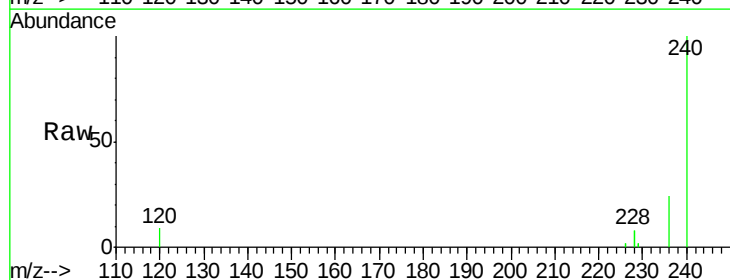
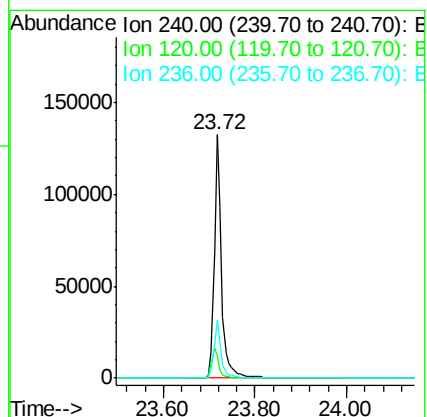
Tgt Ion: 240 Resp: 149448

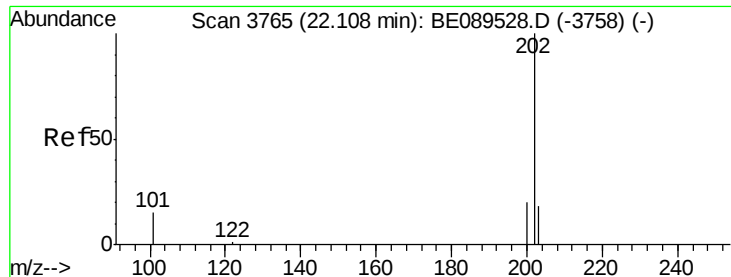
Ion Ratio Lower Upper

240 100

120 9.0 7.2 10.8

236 23.9 18.5 27.7





#17

Pyrene

Concen: 0.72 ng

RT: 22.10 min Scan# 3764

Delta R.T. -0.01 min

Lab File: BE089573.D

Acq: 8 Feb 2015 00:59

Instrument :

BNA_E

ClientSampleId :

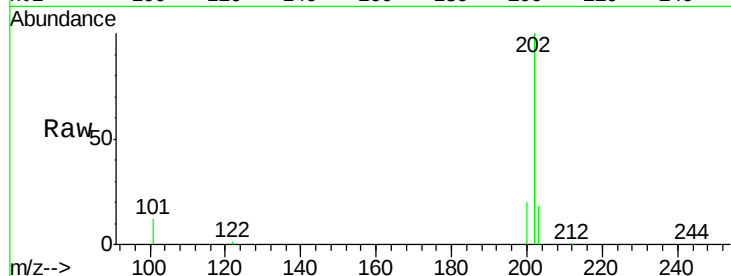
Tgt Ion:202 Resp: 23072

Ion Ratio Lower Upper

202 100

200 20.9 16.3 24.5

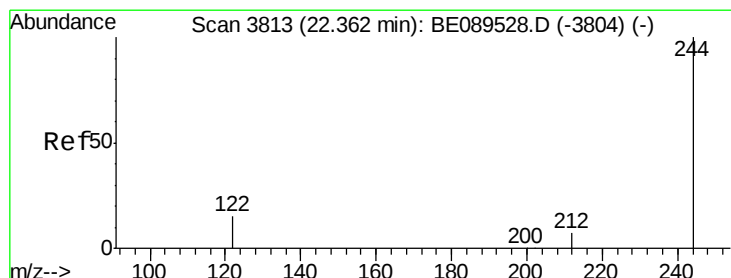
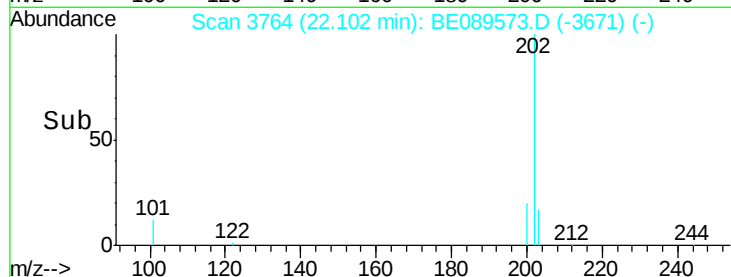
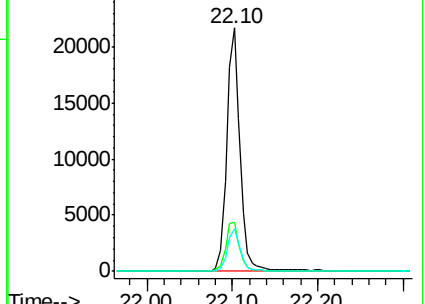
203 17.0 13.5 20.3



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



#18

Terphenyl-d14

Concen: 3.90 ng

RT: 22.36 min Scan# 3813

Delta R.T. -0.00 min

Lab File: BE089573.D

Acq: 8 Feb 2015 00:59

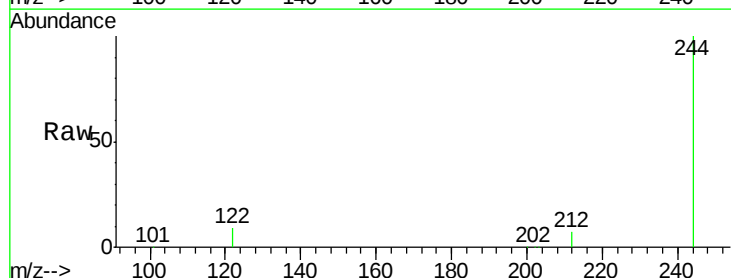
Tgt Ion:244 Resp: 76791

Ion Ratio Lower Upper

244 100

212 6.9 5.8 8.8

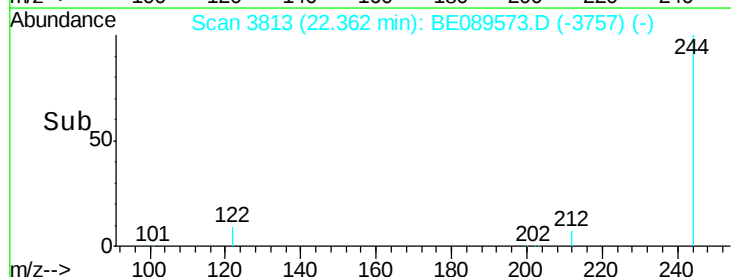
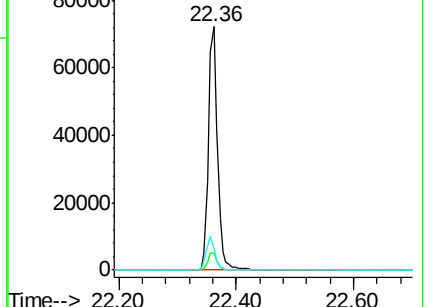
122 9.4 12.6 19.0#



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





#19

Benzo(a)anthracene

Concen: 0.62 ng

RT: 23.70 min Scan# 4037

Delta R.T. -0.01 min

Lab File: BE089573.D

Acq: 8 Feb 2015 00:59

Instrument :

BNA_E

ClientSampleId :

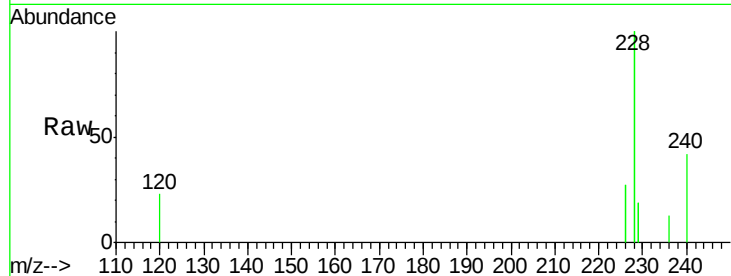
Tgt Ion:228 Resp: 82940

Ion Ratio Lower Upper

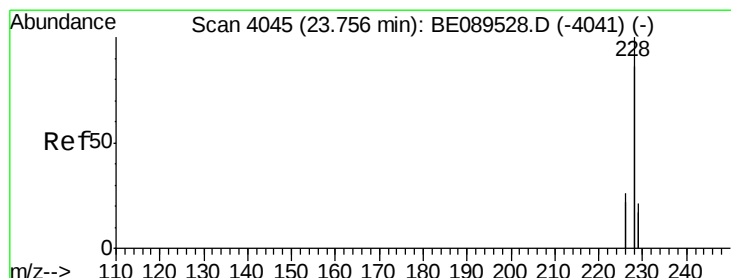
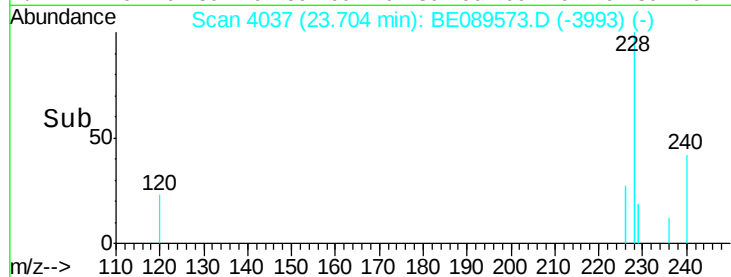
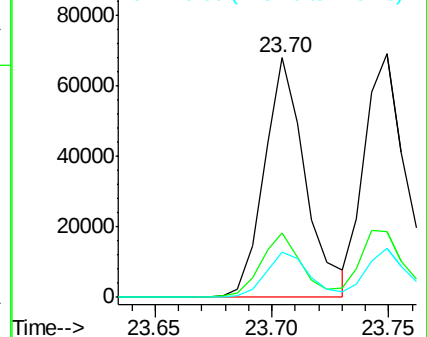
228 100

226 26.9 19.0 28.4

229 18.9 16.8 25.2



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



#20

Chrysene

Concen: 0.72 ng

RT: 23.75 min Scan# 4044

Delta R.T. -0.01 min

Lab File: BE089573.D

Acq: 8 Feb 2015 00:59

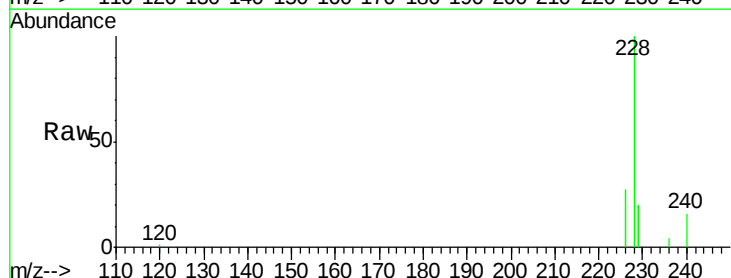
Tgt Ion:228 Resp: 97690

Ion Ratio Lower Upper

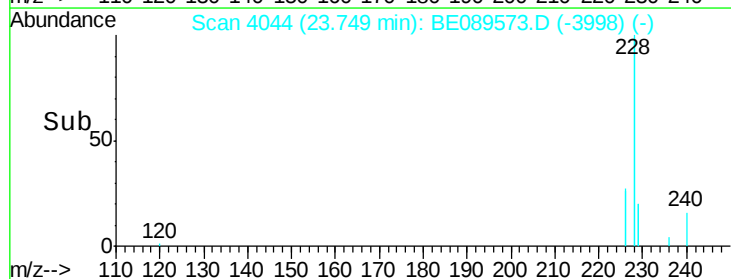
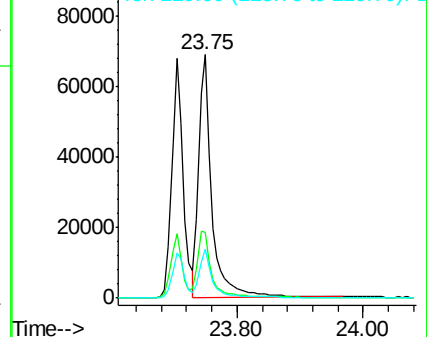
228 100

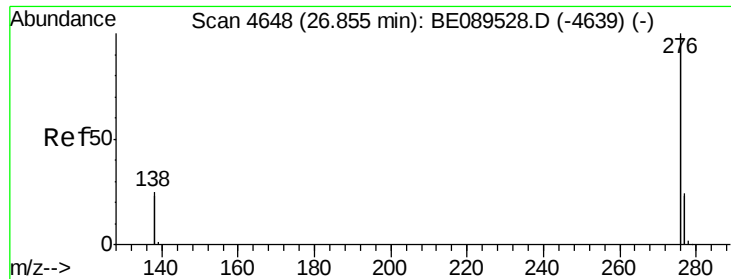
226 26.7 21.0 31.4

229 20.2 16.7 25.1



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

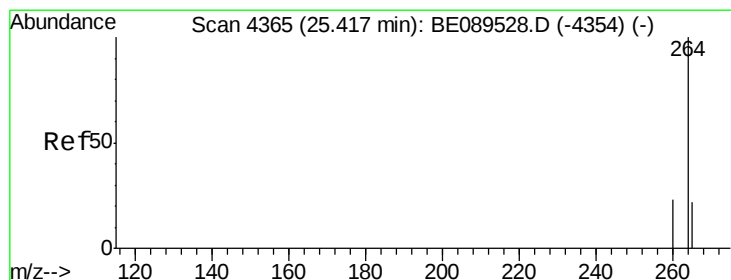
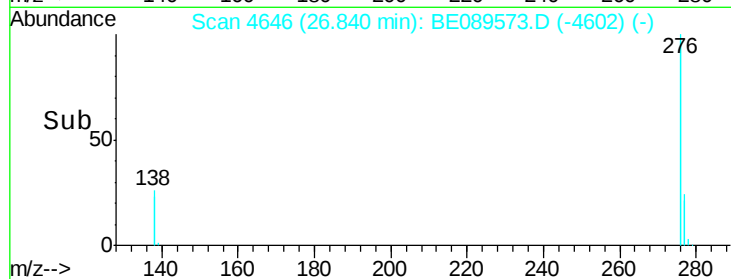
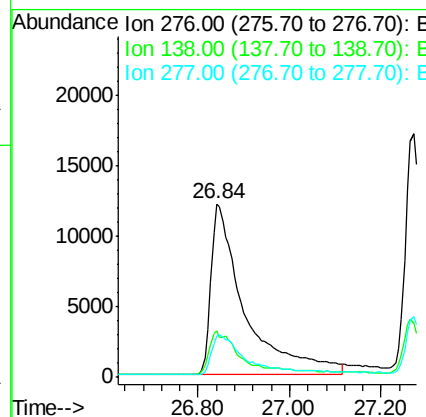
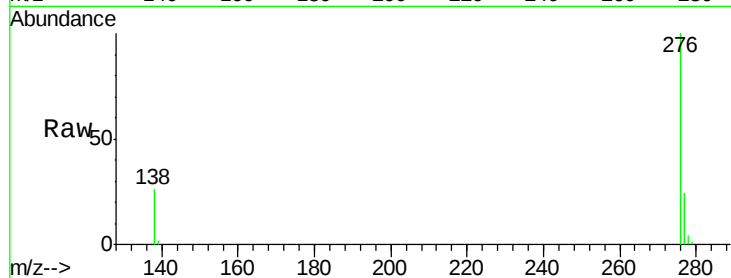




#21
 Indeno(1,2,3-cd)pyrene
 Concen: 0.33 ng
 RT: 26.84 min Scan# 4646
 Delta R.T. -0.01 min
 Lab File: BE089573.D
 Acq: 8 Feb 2015 00:59

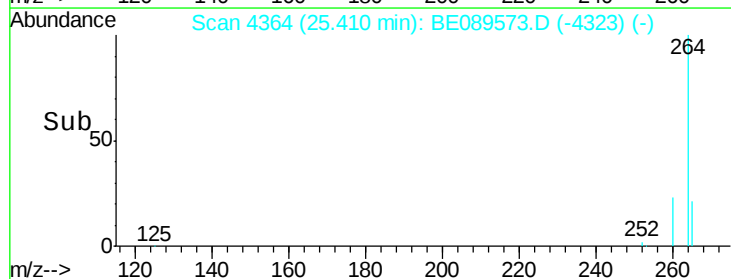
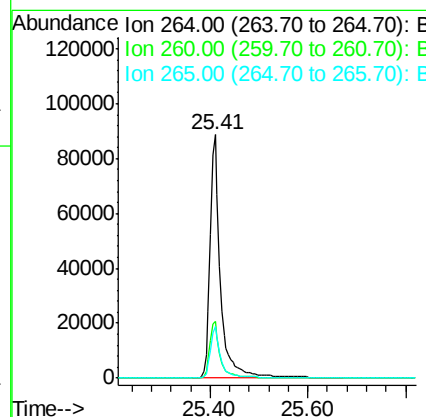
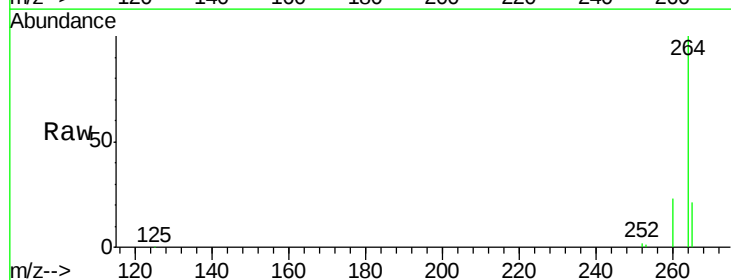
Instrument :
 BNA_E
 ClientSampleId :

Tgt Ion:276 Resp: 62404
 Ion Ratio Lower Upper
 276 100
 138 22.6 23.0 34.4#
 277 22.8 19.9 29.9



#22
 Perylene-d12
 Concen: 5.00 ng
 RT: 25.41 min Scan# 4364
 Delta R.T. -0.01 min
 Lab File: BE089573.D
 Acq: 8 Feb 2015 00:59

Tgt Ion:264 Resp: 131820
 Ion Ratio Lower Upper
 264 100
 260 23.3 18.7 28.1
 265 21.4 17.5 26.3





#23

Benzo(b)fluoranthene

Concen: 0.49 ng

RT: 24.97 min Scan# 4268

Delta R.T. -0.01 min

Lab File: BE089573.D

Acq: 8 Feb 2015 00:59

Instrument :

BNA_E

ClientSampleId :

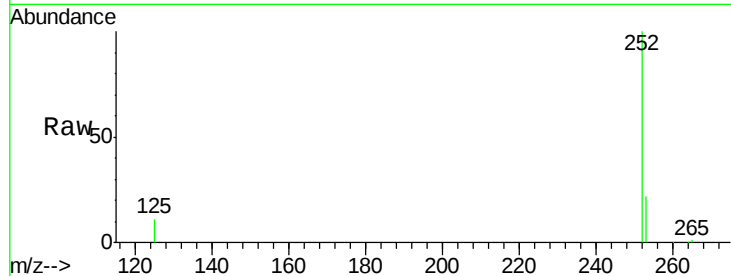
Tgt Ion:252 Resp: 12623

Ion Ratio Lower Upper

252 100

253 22.5 17.4 26.0

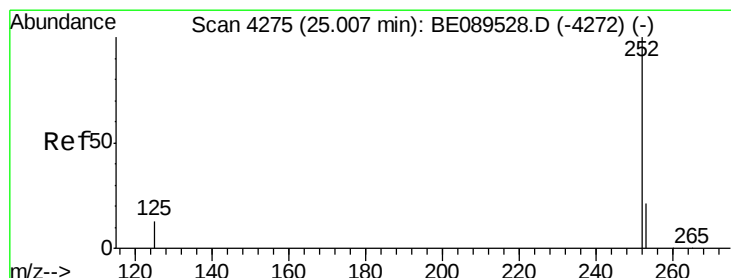
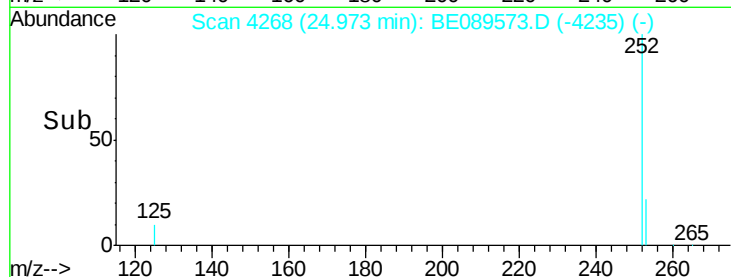
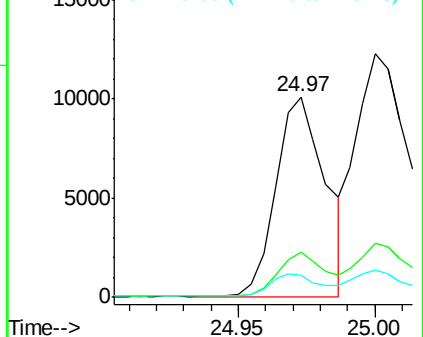
125 11.2 10.4 15.6



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



#24

Benzo(k)fluoranthene

Concen: 0.76 ng

RT: 25.00 min Scan# 4274

Delta R.T. -0.01 min

Lab File: BE089573.D

Acq: 8 Feb 2015 00:59

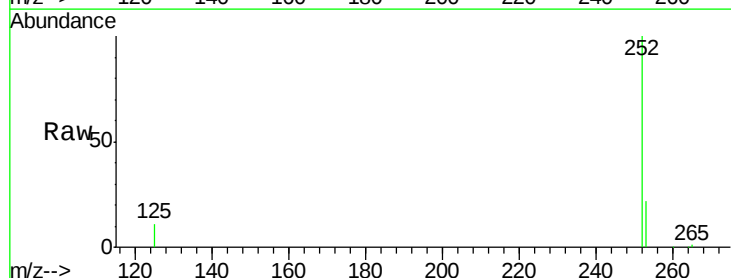
Tgt Ion:252 Resp: 24302

Ion Ratio Lower Upper

252 100

253 22.3 17.2 25.8

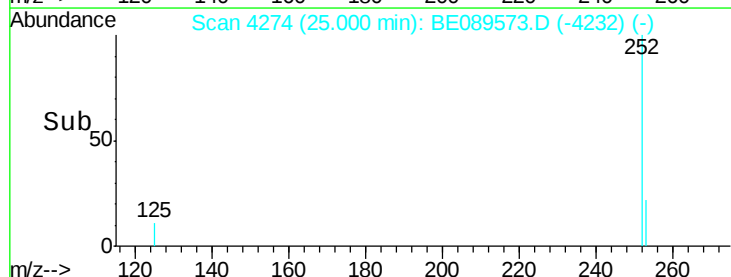
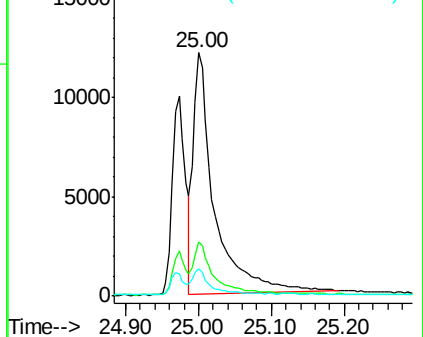
125 11.1 10.6 15.8



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





#25

Benzo(a)pyrene

Concen: 0.49 ng

RT: 25.34 min Scan# 4349

Delta R.T. -0.01 min

Lab File: BE089573.D

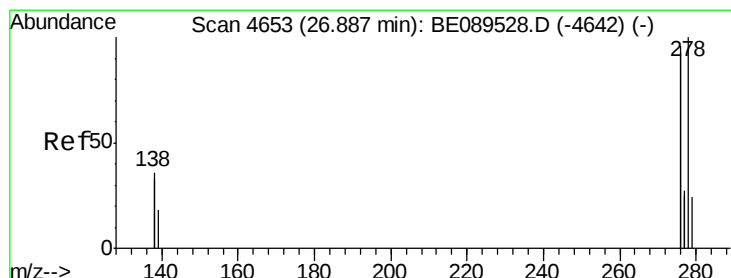
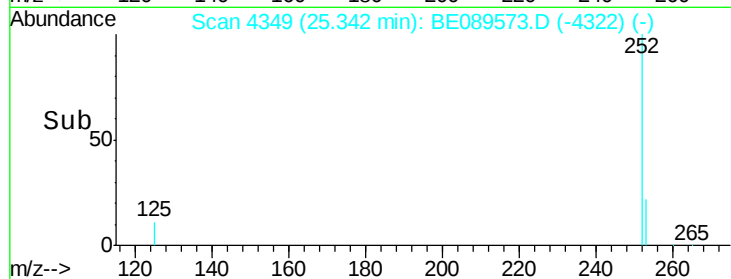
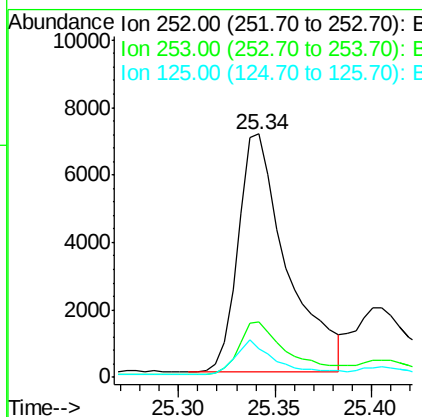
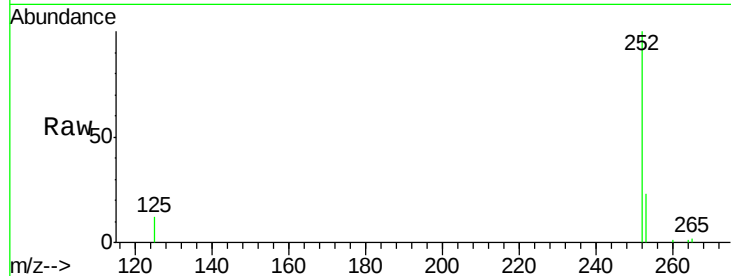
Acq: 8 Feb 2015 00:59

Instrument :

BNA_E

ClientSampleId :

Tgt Ion:	252	Resp:	12430
Ion	Ratio	Lower	Upper
252	100		
253	22.7	17.8	26.6
125	11.6	11.4	17.2



#26

Dibenzo(a,h)anthracene

Concen: 0.39 ng

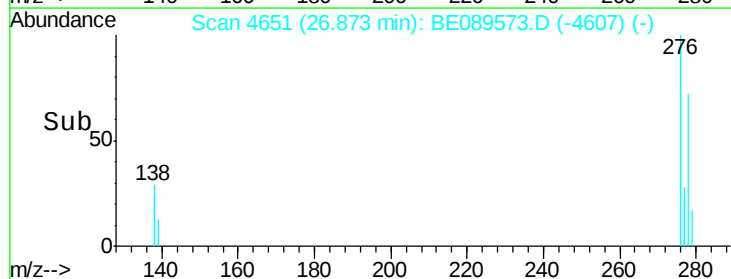
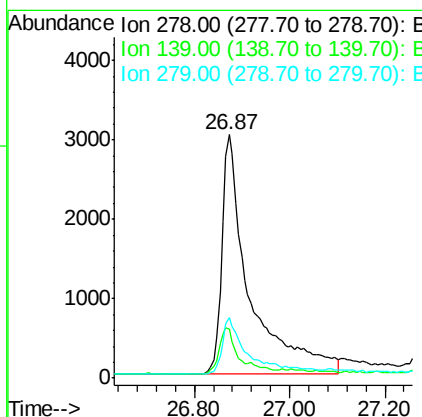
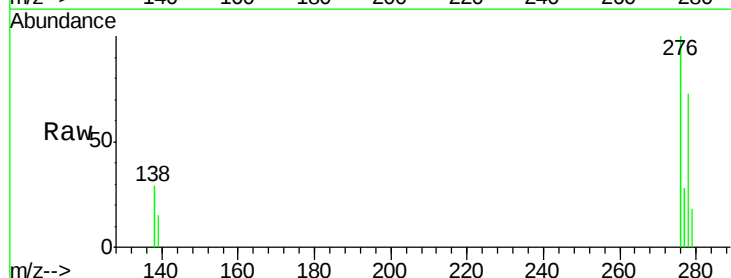
RT: 26.87 min Scan# 4651

Delta R.T. -0.01 min

Lab File: BE089573.D

Acq: 8 Feb 2015 00:59

Tgt Ion:	278	Resp:	12300
Ion	Ratio	Lower	Upper
278	100		
139	20.0	15.7	23.5
279	24.9	19.5	29.3





#27

Benzo(g,h,i)perylene

Concen: 0.46 ng

RT: 27.27 min Scan# 4712

Delta R.T. -0.01 min

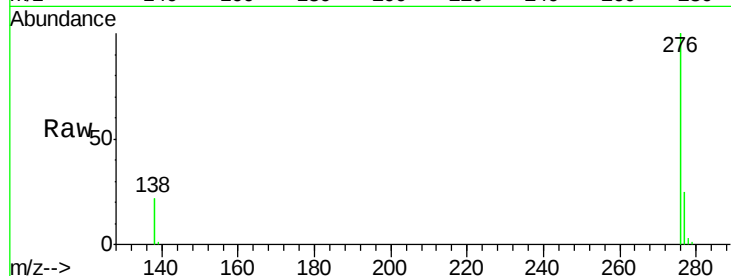
Lab File: BE089573.D

Acq: 8 Feb 2015 00:59

Instrument :

BNA_E

ClientSampleId :



Tgt Ion: 276 Resp: 58184

Ion Ratio Lower Upper

276 100

277 25.0 18.6 27.8

138 22.5 20.9 31.3

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

