

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE013015\
 Data File : BE089457.D
 Acq On : 31 Jan 2015 5:07
 Operator : TP/IZ
 Sample : MDL-BLK-W
 Misc : MDL-WATER-BLK
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :

Quant Time: Feb 02 00:31:37 2015
 Quant Method : Z:\HPCHEM1\BNA_E\METHODS\SIMPAH-BE013015.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Sat Jan 31 05:05:18 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	9.59	152	87188	5.00	ng	0.00
2) Naphthalene-d8	12.50	136	369275	5.00	ng	0.00
6) Acenaphthene-d10	16.69	164	187636	5.00	ng	-0.01
11) Phenanthrene-d10	19.99	188	328491	5.00	ng	0.00
16) Chrysene-d12	23.84	240	289539	5.00	ng	0.00
22) Perylene-d12	25.55	264	257960	5.00	ng	0.00

System Monitoring Compounds						
3) Nitrobenzene-d5	10.85	82	250780	10.26	ng	0.00
7) 2-Fluorobiphenyl	15.13	172	444461	8.99	ng	0.00
18) Terphenyl-d14	22.48	244	483452	11.15	ng	0.00

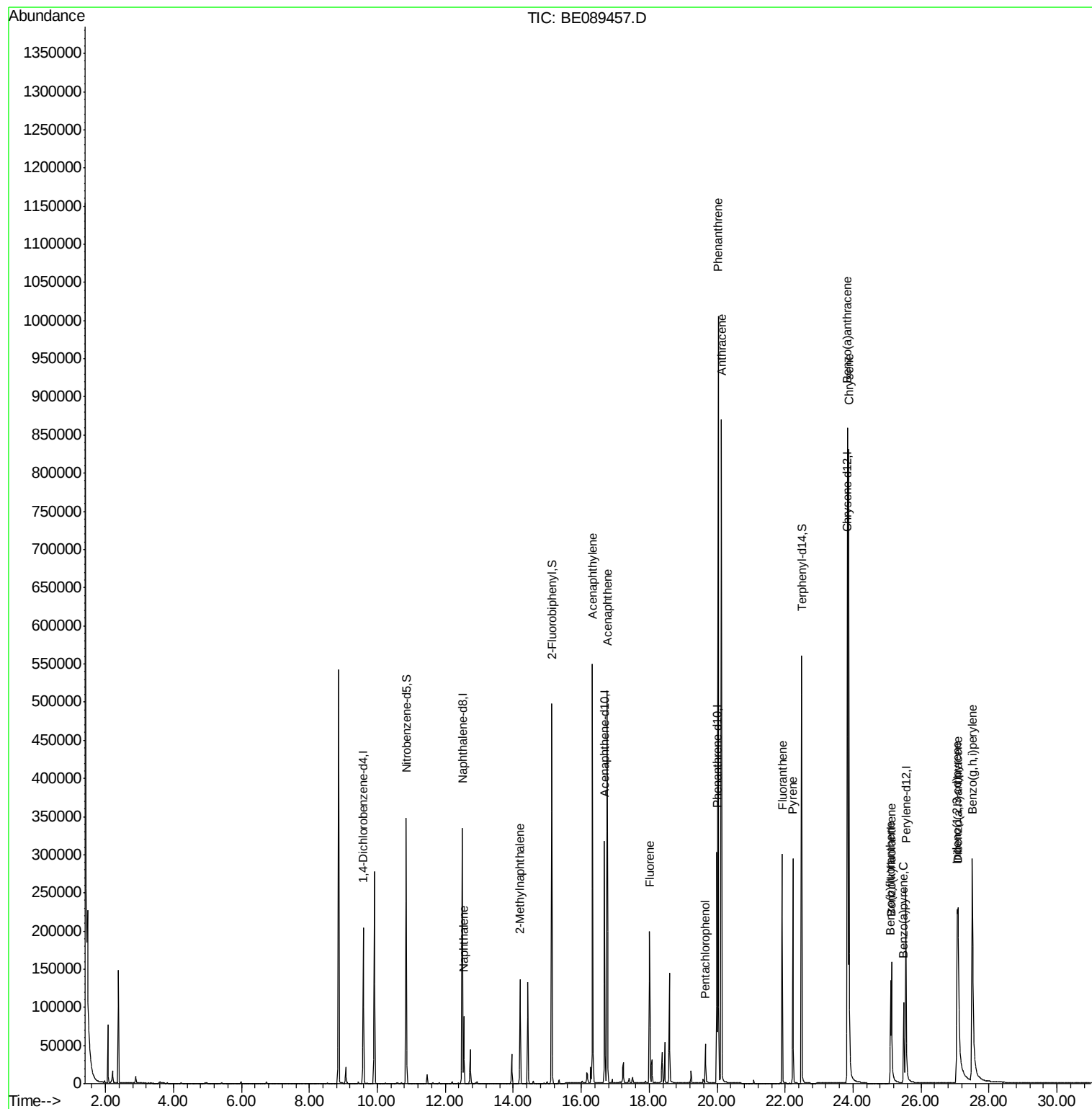
Target Compounds				Qvalue		
4) Naphthalene	12.55	128	100410	1.16	ng	98
5) 2-Methylnaphthalene	14.20	142	85979	1.64	ng	97
8) Acenaphthylene	16.34	152	654525	1.94	ng	100
9) Acenaphthene	16.76	154	98667	1.95	ng	100
10) Fluorene	18.02	166	130822	2.32	ng	99
12) Pentachlorophenol	19.66	266	30721	9.04	ng	92
13) Phenanthrene	20.03	178	850674	2.64	ng	100
14) Anthracene	20.12	178	815281	2.77	ng	100
15) Fluoranthene	21.91	202	197017	2.79	ng	99
17) Pyrene	22.23	202	207702	2.70	ng	99
19) Benzo(a)anthracene	23.82	228	654324	2.68	ng	94
20) Chrysene	23.87	228	745094	2.71	ng	100
21) Indeno(1,2,3-cd)pyrene	27.06	276	620614	2.58	ng	100
23) Benzo(b)fluoranthene	25.10	252	112806	2.55	ng	99
24) Benzo(k)fluoranthene	25.13	252	208527	3.17	ng	99
25) Benzo(a)pyrene	25.49	252	126112	2.76	ng	98
26) Dibenzo(a,h)anthracene	27.09	278	130483	2.53	ng	98
27) Benzo(g,h,i)perylene	27.51	276	563884	2.73	ng	96

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

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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 9.59 min Scan# 1795

Delta R.T. -0.00 min

Lab File: BE089457.D

Acq: 31 Jan 2015 5:07

Instrument :

BNA_E

ClientSampleId :

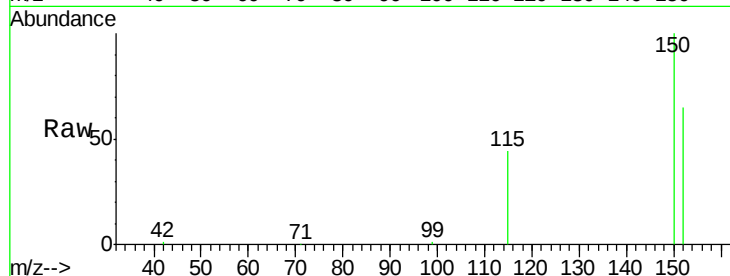
Tgt Ion:152 Resp: 87188

Ion Ratio Lower Upper

152 100

150 154.5 127.2 190.8

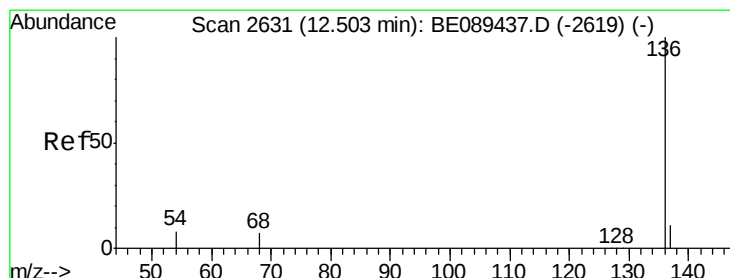
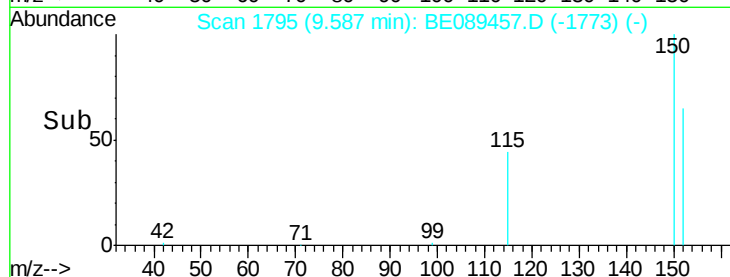
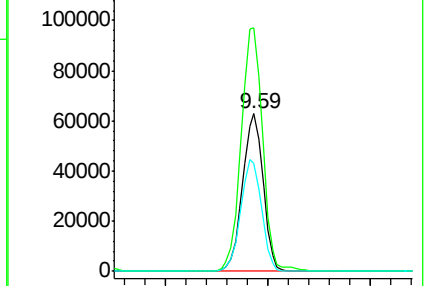
115 68.3 57.5 86.3



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

Naphthalene-d8

Concen: 5.00 ng

RT: 12.50 min Scan# 2630

Delta R.T. -0.00 min

Lab File: BE089457.D

Acq: 31 Jan 2015 5:07

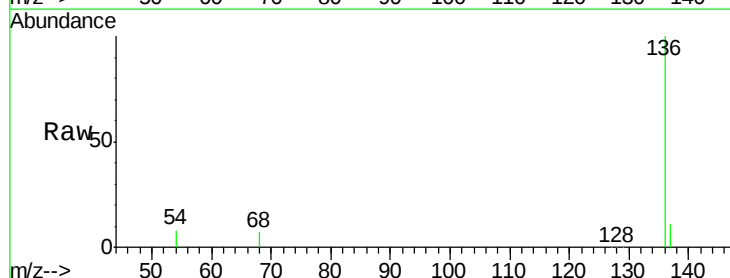
Tgt Ion:136 Resp: 369275

Ion Ratio Lower Upper

136 100

137 10.8 8.7 13.1

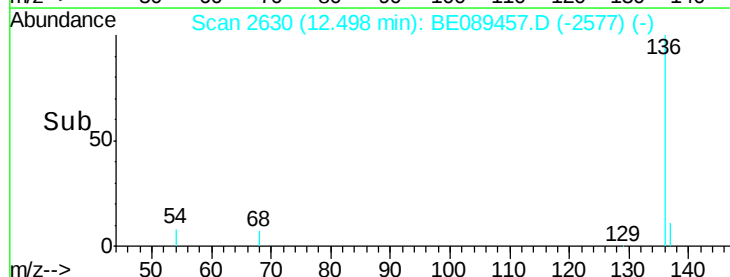
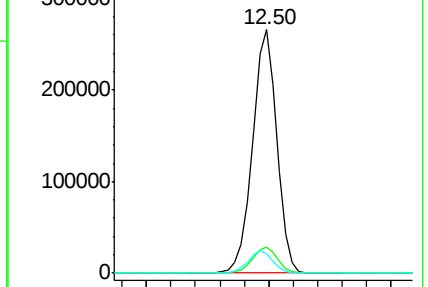
54 8.3 6.6 10.0



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: 10.26 ng

RT: 10.85 min Scan# 2225

Delta R.T. 0.00 min

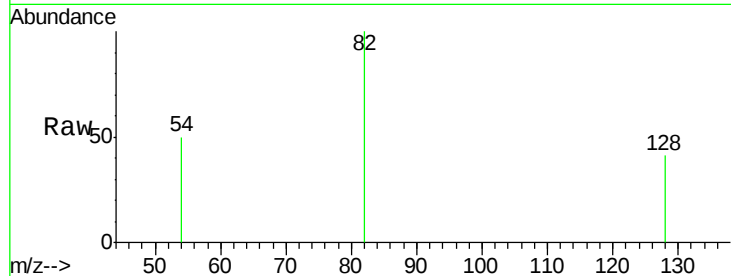
Lab File: BE089457.D

Acq: 31 Jan 2015 5:07

Instrument :

BNA_E

ClientSampled :



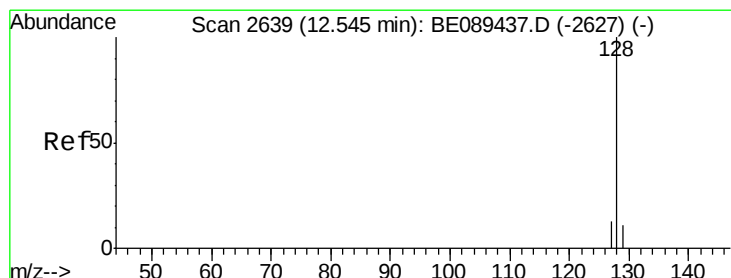
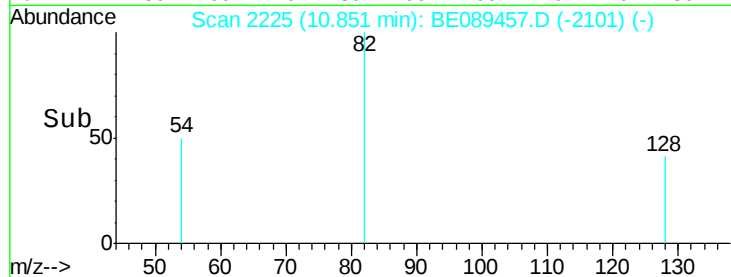
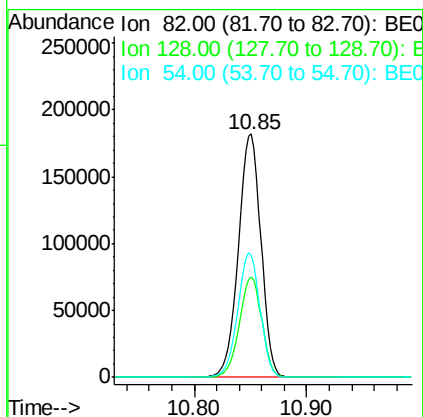
Tgt Ion: 82 Resp: 250780

Ion Ratio Lower Upper

82 100

128 41.2 31.2 46.8

54 50.3 41.9 62.9



#4

Naphthalene

Concen: 1.16 ng

RT: 12.55 min Scan# 2639

Delta R.T. 0.00 min

Lab File: BE089457.D

Acq: 31 Jan 2015 5:07

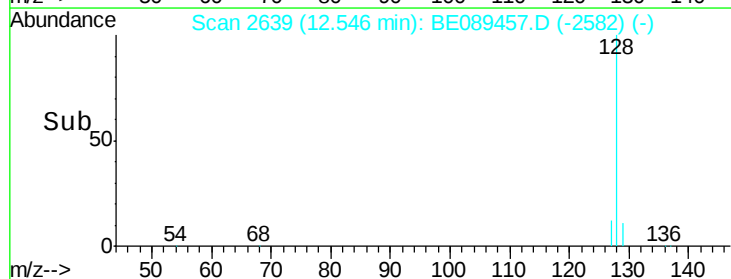
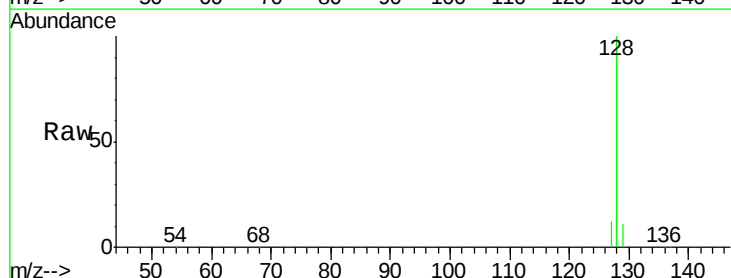
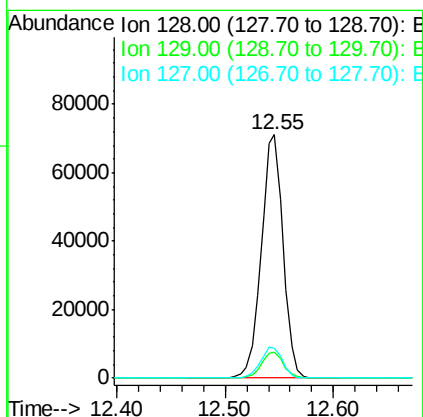
Tgt Ion: 128 Resp: 100410

Ion Ratio Lower Upper

128 100

129 10.7 8.8 13.2

127 12.3 10.6 16.0





#5

2-Methylnaphthalene

Concen: 1.64 ng

RT: 14.20 min Scan# 2976

Delta R.T. -0.01 min

Lab File: BE089457.D

Acq: 31 Jan 2015 5:07

Instrument :

BNA_E

ClientSampleId :

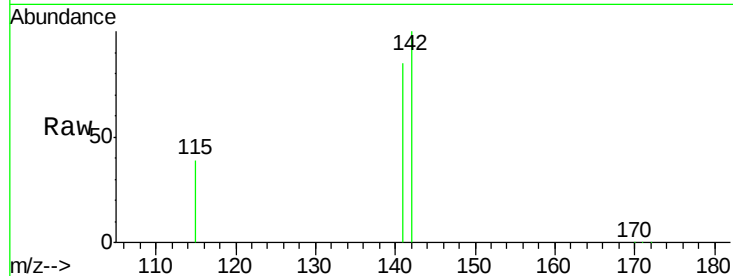
Tgt Ion:142 Resp: 85979

Ion Ratio Lower Upper

142 100

141 85.2 66.1 99.1

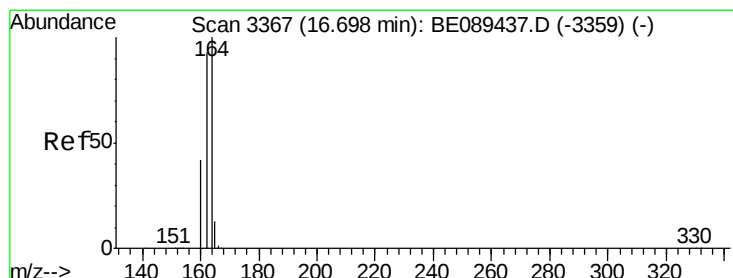
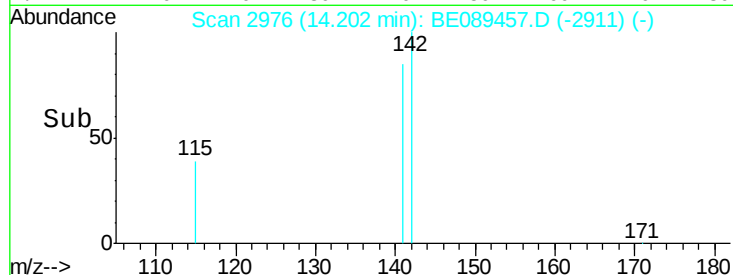
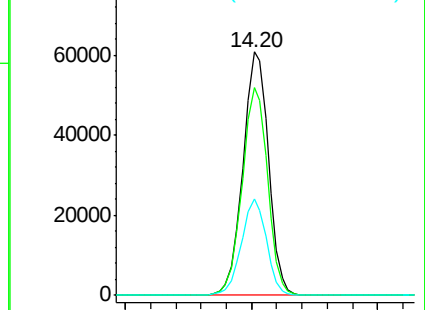
115 39.4 29.9 44.9



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: 16.69 min Scan# 3366

Delta R.T. -0.01 min

Lab File: BE089457.D

Acq: 31 Jan 2015 5:07

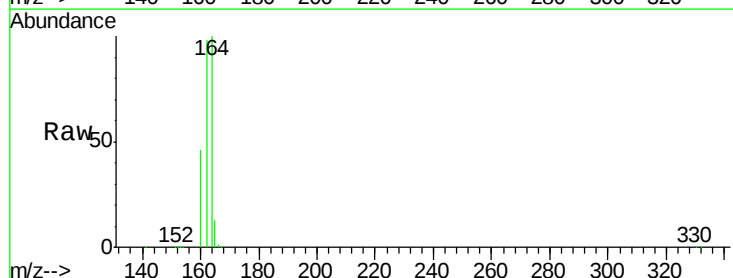
Tgt Ion:164 Resp: 187636

Ion Ratio Lower Upper

164 100

162 98.3 74.7 112.1

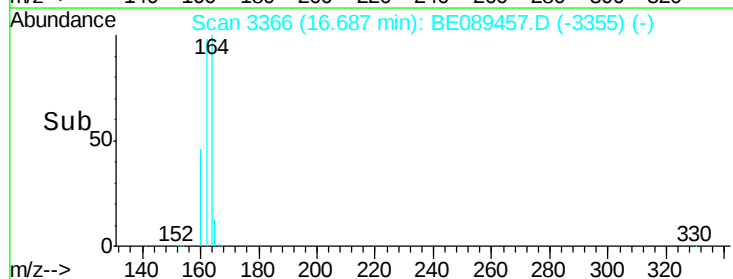
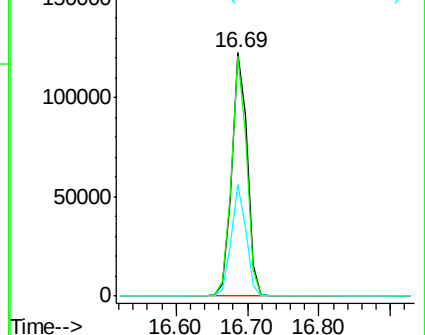
160 45.9 33.4 50.0



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: 8.99 ng

RT: 15.13 min Scan# 3181

Delta R.T. -0.00 min

Lab File: BE089457.D

Acq: 31 Jan 2015 5:07

Instrument :

BNA_E

ClientSampleId :

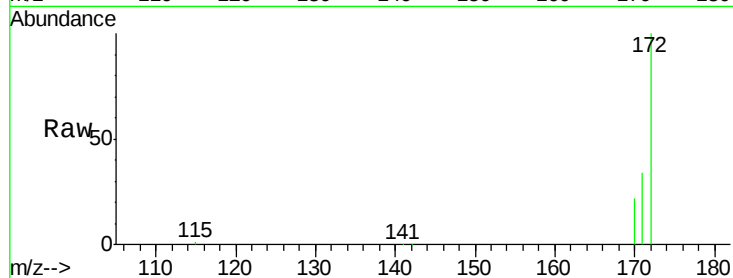
Tgt Ion:172 Resp: 444461

Ion Ratio Lower Upper

172 100

171 33.8 26.2 39.4

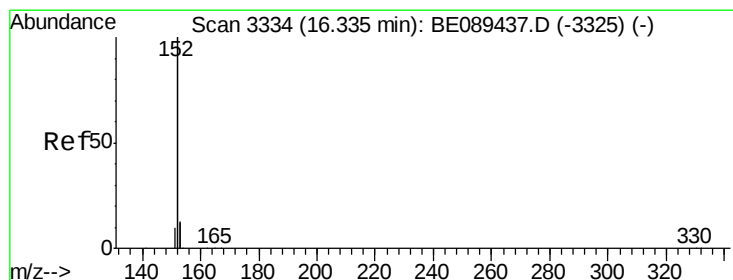
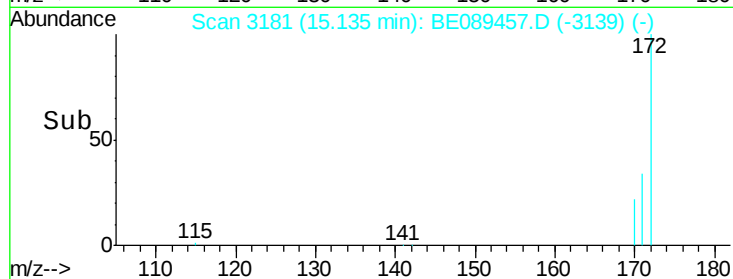
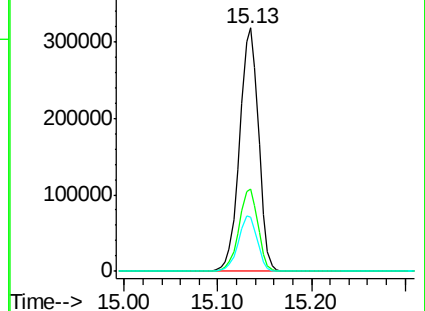
170 22.1 16.5 24.7



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



#8

Acenaphthylene

Concen: 1.94 ng

RT: 16.34 min Scan# 3334

Delta R.T. -0.00 min

Lab File: BE089457.D

Acq: 31 Jan 2015 5:07

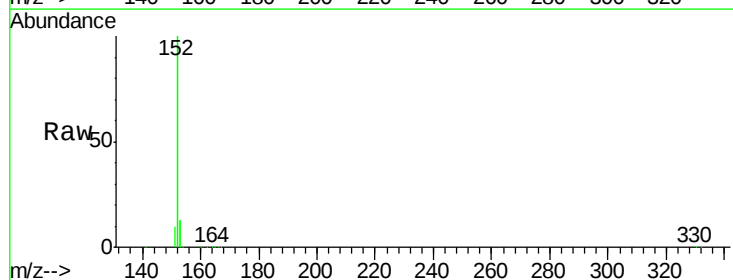
Tgt Ion:152 Resp: 654525

Ion Ratio Lower Upper

152 100

151 4.9 3.9 5.9

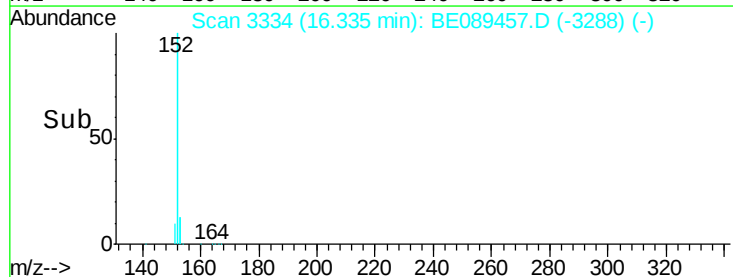
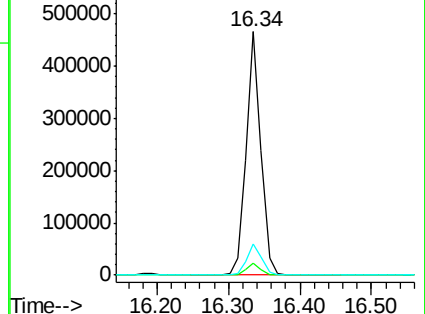
153 13.0 10.3 15.5



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





#9

Acenaphthene

Concen: 1.95 ng

RT: 16.76 min Scan# 3373

Delta R.T. -0.00 min

Lab File: BE089457.D

Acq: 31 Jan 2015 5:07

Instrument :

BNA_E

ClientSampleId :

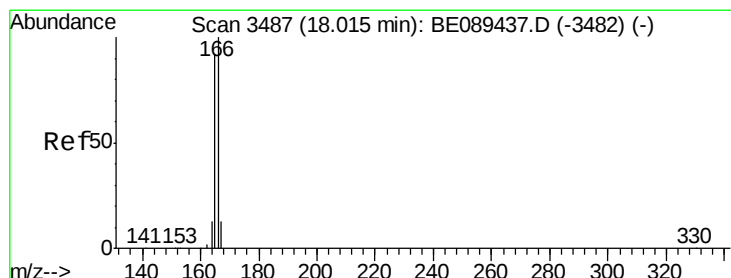
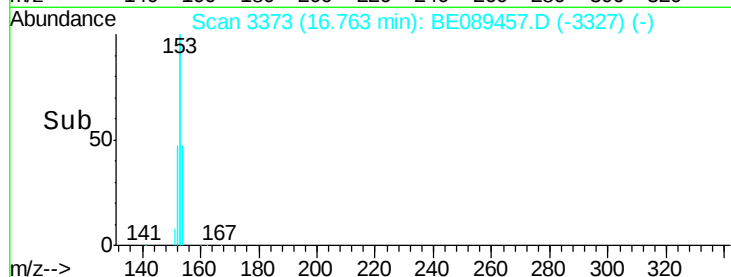
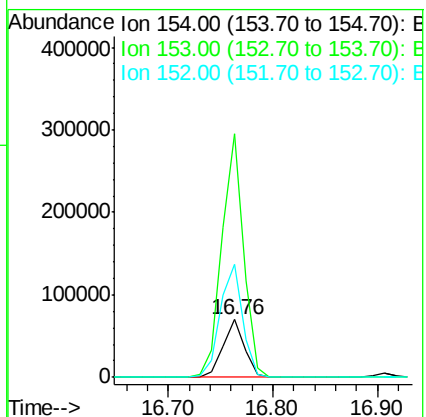
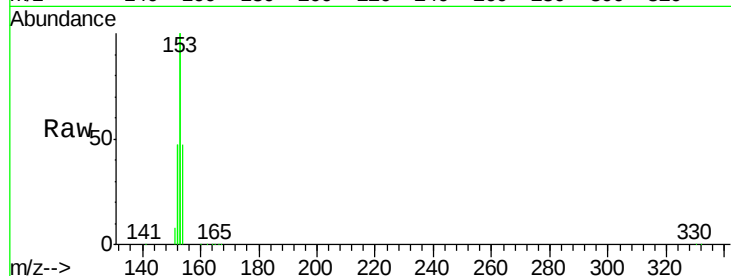
Tgt Ion:154 Resp: 98667

Ion Ratio Lower Upper

154 100

153 428.7 342.3 513.5

152 206.3 165.5 248.3



#10

Fluorene

Concen: 2.32 ng

RT: 18.02 min Scan# 3487

Delta R.T. -0.00 min

Lab File: BE089457.D

Acq: 31 Jan 2015 5:07

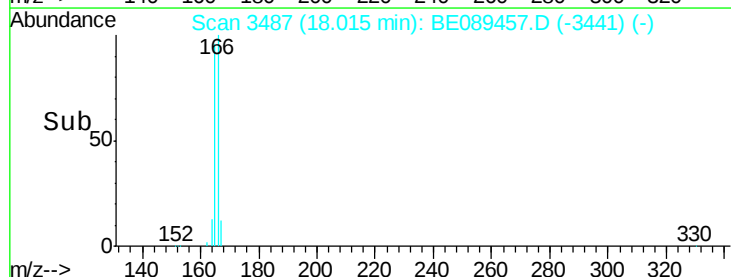
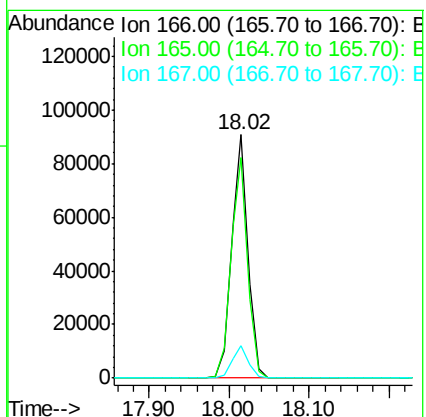
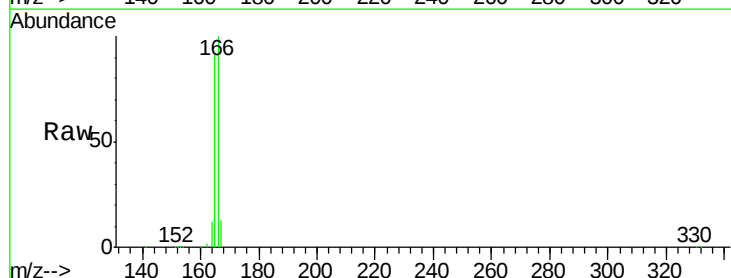
Tgt Ion:166 Resp: 130822

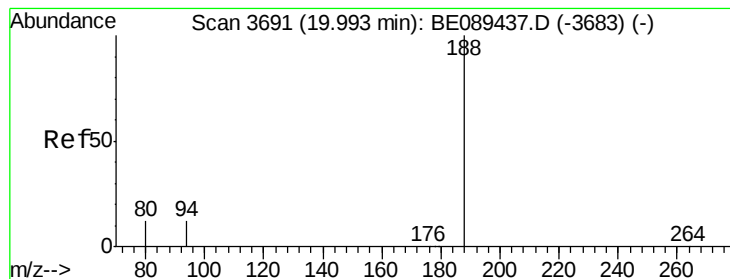
Ion Ratio Lower Upper

166 100

165 92.1 74.4 111.6

167 13.1 10.6 15.8





#11

Phenanthrene-d10

Concen: 5.00 ng

RT: 19.99 min Scan# 3691

Delta R.T. 0.00 min

Lab File: BE089457.D

Acq: 31 Jan 2015 5:07

Instrument :

BNA_E

ClientSampleId :

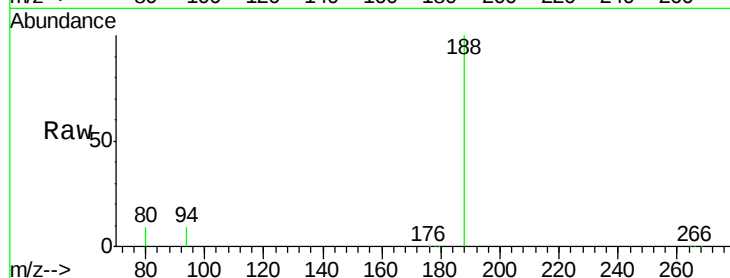
Tgt Ion:188 Resp: 328491

Ion Ratio Lower Upper

188 100

94 8.7 9.4 14.0#

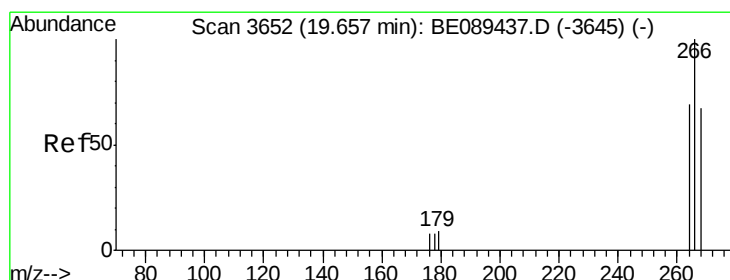
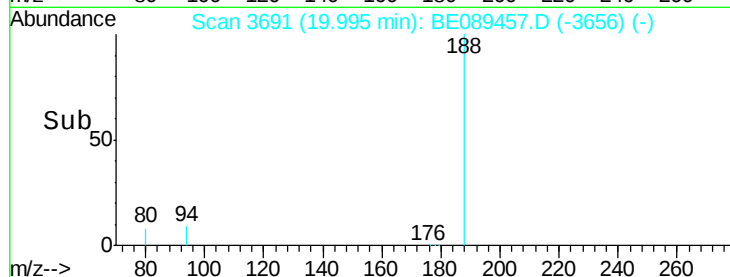
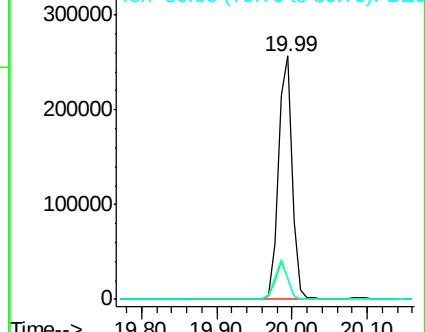
80 8.5 9.3 13.9#



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



#12

Pentachlorophenol

Concen: 9.04 ng

RT: 19.66 min Scan# 3652

Delta R.T. 0.00 min

Lab File: BE089457.D

Acq: 31 Jan 2015 5:07

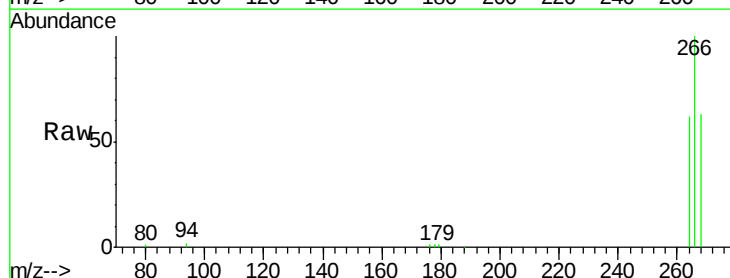
Tgt Ion:266 Resp: 30721

Ion Ratio Lower Upper

266 100

268 63.4 54.2 81.4

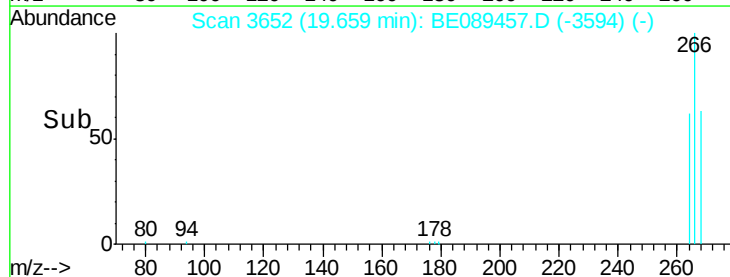
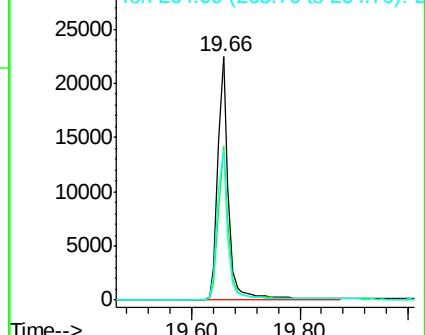
264 61.7 56.2 84.2



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: 2.64 ng

RT: 20.03 min Scan# 3695

Delta R.T. 0.00 min

Lab File: BE089457.D

Acq: 31 Jan 2015 5:07

Instrument :

BNA_E

ClientSampleId :

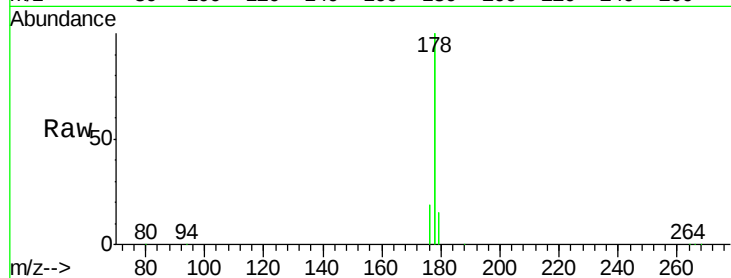
Tgt Ion:178 Resp: 850674

Ion Ratio Lower Upper

178 100

176 18.8 15.1 22.7

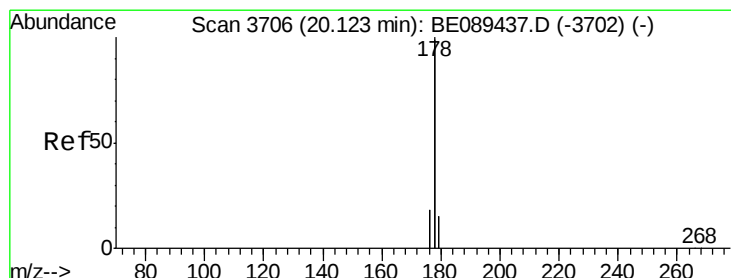
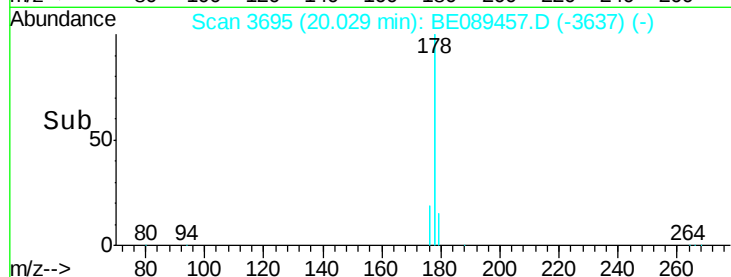
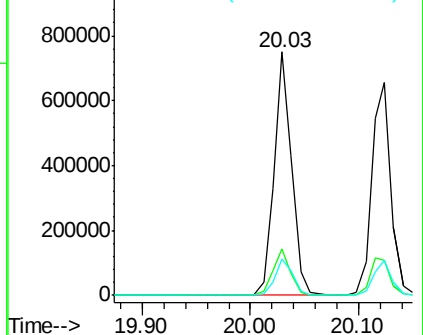
179 15.3 12.3 18.5



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



#14

Anthracene

Concen: 2.77 ng

RT: 20.12 min Scan# 3706

Delta R.T. 0.00 min

Lab File: BE089457.D

Acq: 31 Jan 2015 5:07

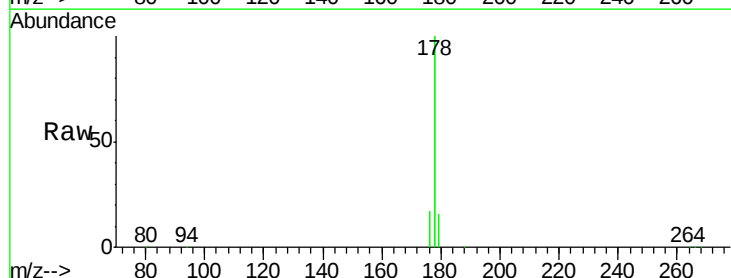
Tgt Ion:178 Resp: 815281

Ion Ratio Lower Upper

178 100

176 18.3 14.6 22.0

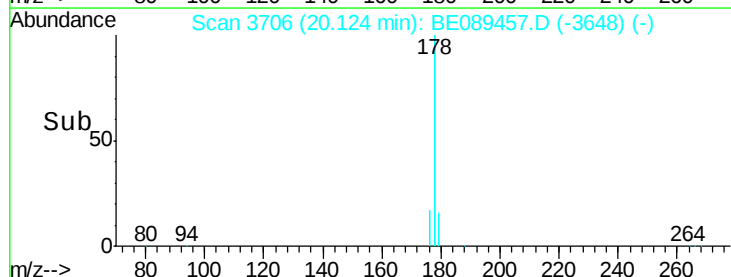
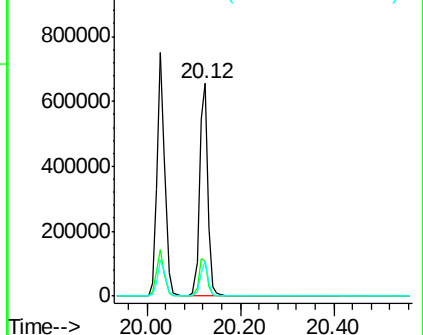
179 15.0 12.2 18.2

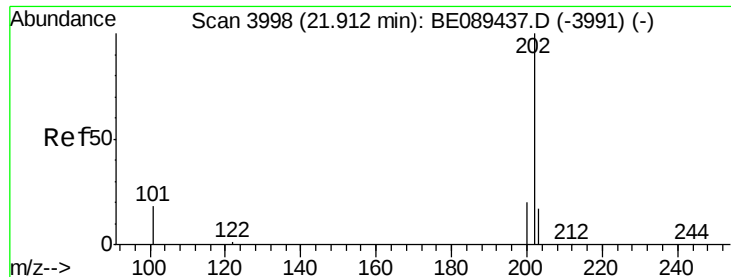


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E

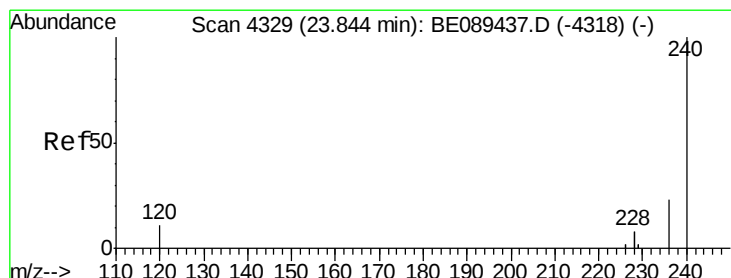
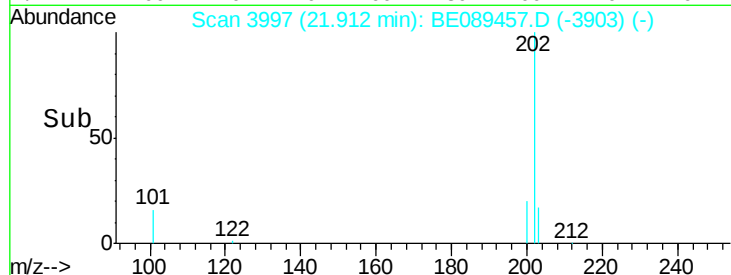
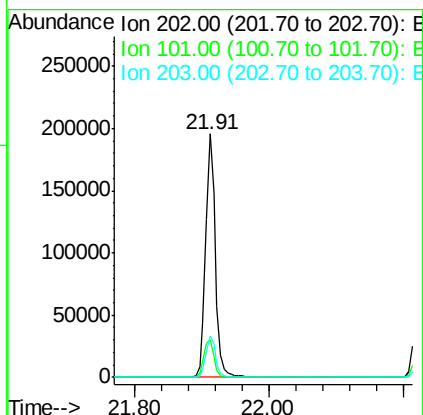
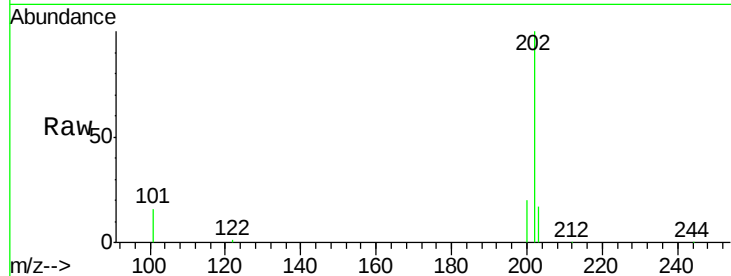




#15
 Fluoranthene
 Concen: 2.79 ng
 RT: 21.91 min Scan# 3997
 Delta R.T. -0.00 min
 Lab File: BE089457.D
 Acq: 31 Jan 2015 5:07

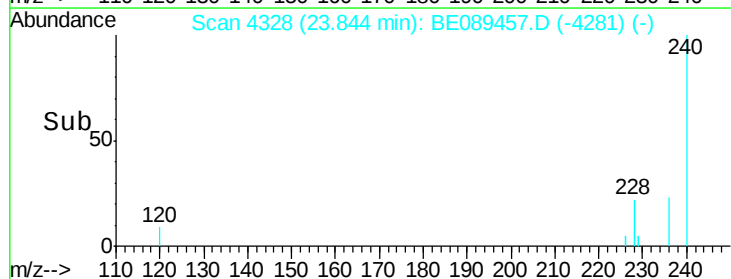
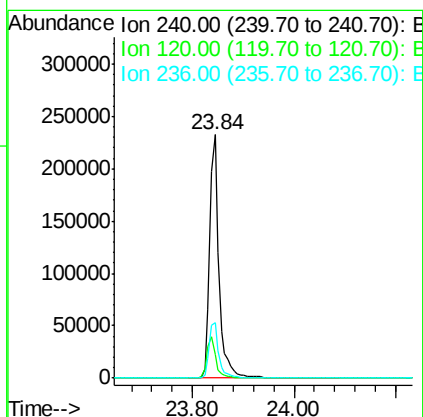
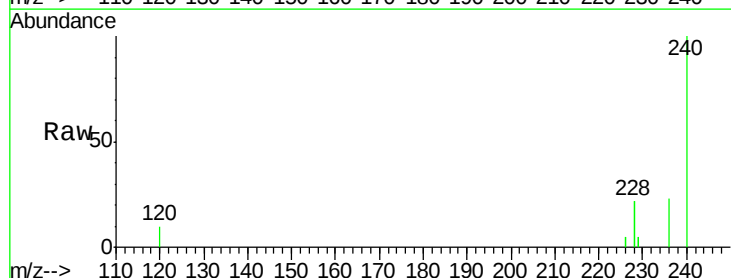
Instrument :
 BNA_E
 ClientSampleId :

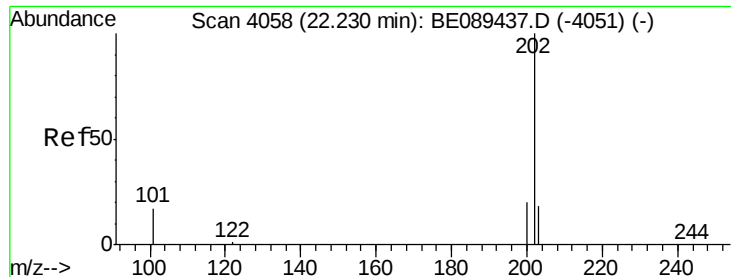
Tgt Ion: 202 Resp: 197017
 Ion Ratio Lower Upper
 202 100
 101 16.1 13.6 20.4
 203 17.1 13.8 20.6



#16
 Chrysene-d12
 Concen: 5.00 ng
 RT: 23.84 min Scan# 4328
 Delta R.T. -0.00 min
 Lab File: BE089457.D
 Acq: 31 Jan 2015 5:07

Tgt Ion: 240 Resp: 289539
 Ion Ratio Lower Upper
 240 100
 120 9.5 8.6 13.0
 236 22.9 18.7 28.1

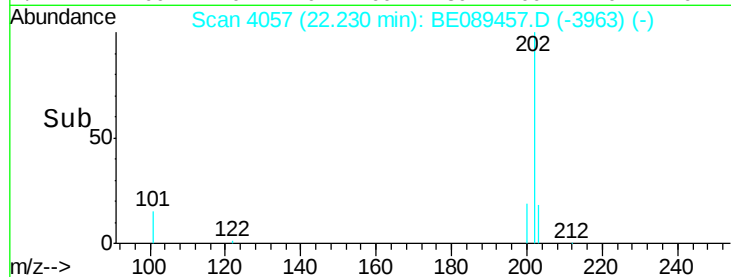
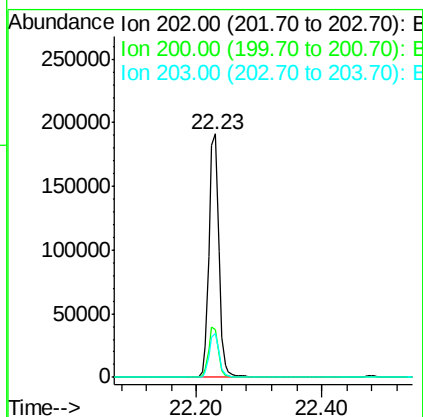
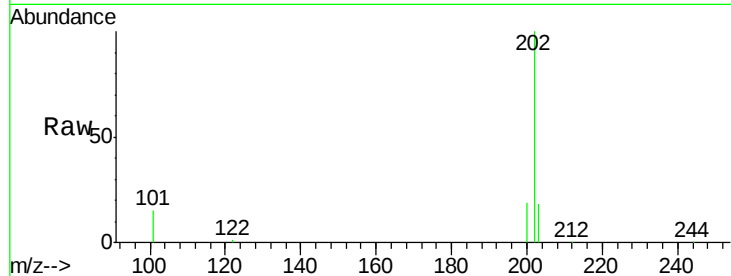




#17
 Pyrene
 Concen: 2.70 ng
 RT: 22.23 min Scan# 4057
 Delta R.T. -0.00 min
 Lab File: BE089457.D
 Acq: 31 Jan 2015 5:07

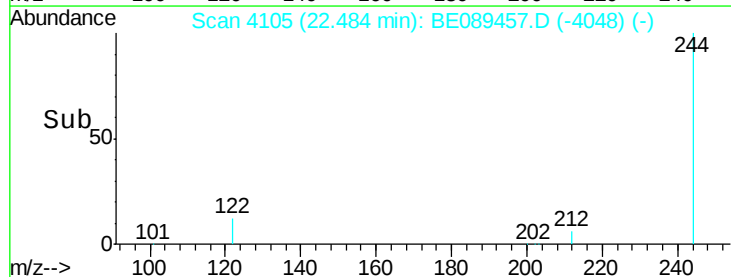
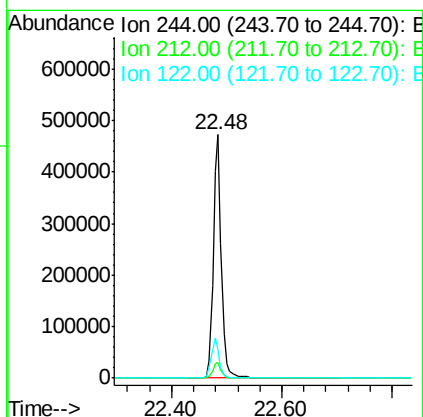
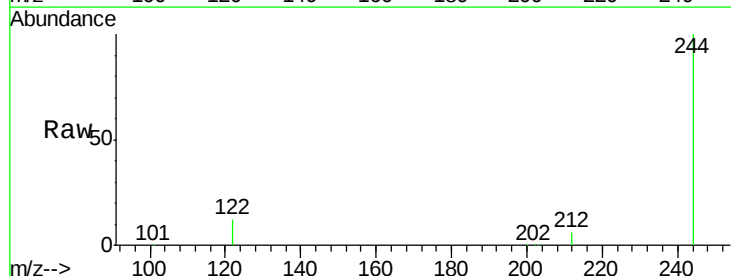
Instrument :
 BNA_E
 ClientSampled :

Tgt Ion: 202 Resp: 207702
 Ion Ratio Lower Upper
 202 100
 200 20.4 16.2 24.4
 203 17.7 13.8 20.8



#18
 Terphenyl-d14
 Concen: 11.15 ng
 RT: 22.48 min Scan# 4105
 Delta R.T. -0.00 min
 Lab File: BE089457.D
 Acq: 31 Jan 2015 5:07

Tgt Ion: 244 Resp: 483452
 Ion Ratio Lower Upper
 244 100
 212 6.5 5.0 7.6
 122 11.6 10.2 15.4





#19

Benzo(a)anthracene

Concen: 2.68 ng

RT: 23.82 min Scan# 4325

Delta R.T. -0.01 min

Lab File: BE089457.D

Acq: 31 Jan 2015 5:07

Instrument :

BNA_E

ClientSampleId :

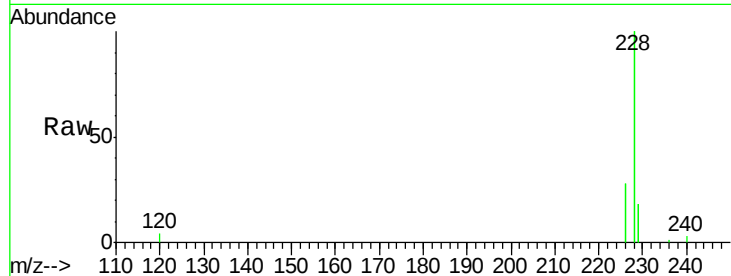
Tgt Ion:228 Resp: 654324

Ion Ratio Lower Upper

228 100

226 28.2 20.0 30.0

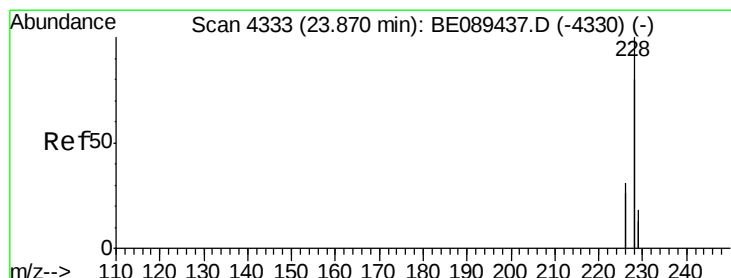
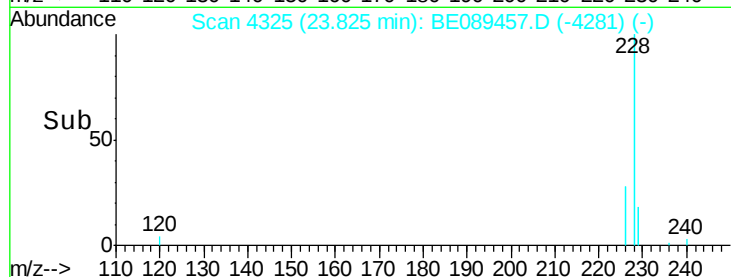
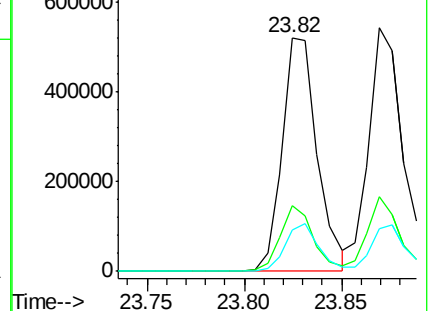
229 17.7 16.0 24.0



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



#20

Chrysene

Concen: 2.71 ng

RT: 23.87 min Scan# 4332

Delta R.T. -0.00 min

Lab File: BE089457.D

Acq: 31 Jan 2015 5:07

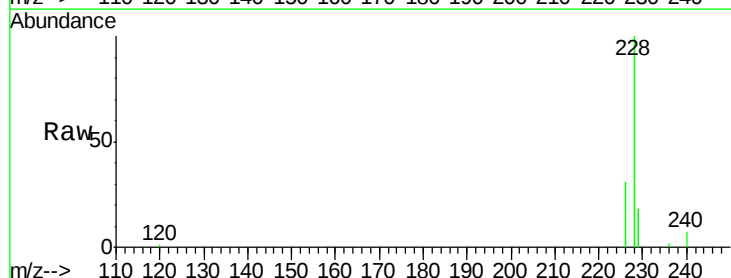
Tgt Ion:228 Resp: 745094

Ion Ratio Lower Upper

228 100

226 30.8 24.5 36.7

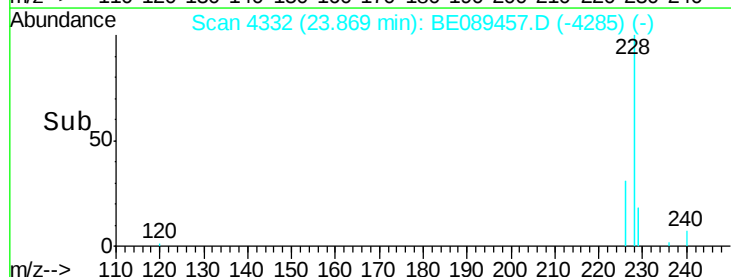
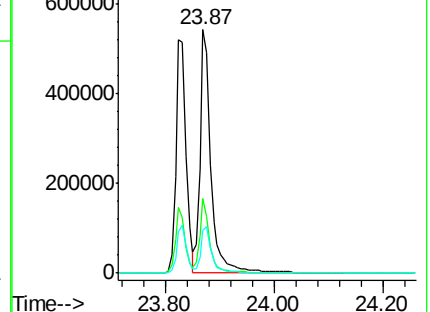
229 17.6 14.1 21.1



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: 2.58 ng

RT: 27.06 min Scan# 4949

Delta R.T. 0.00 min

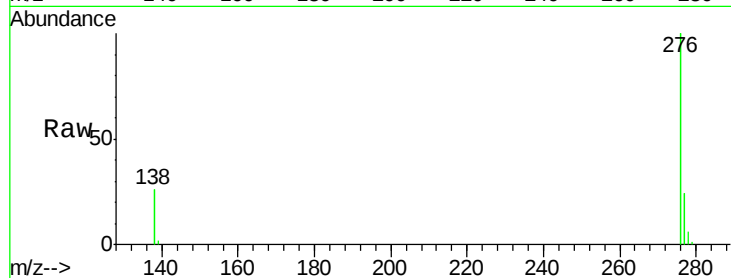
Lab File: BE089457.D

Acq: 31 Jan 2015 5:07

Instrument :

BNA_E

ClientSampleId :



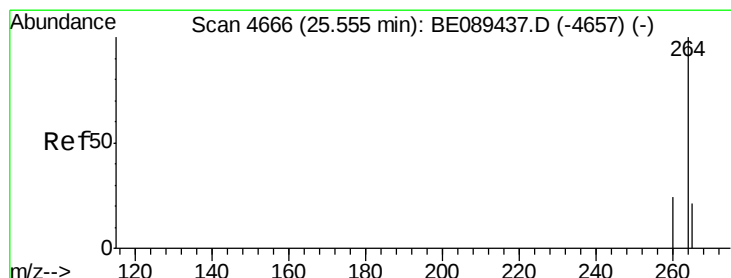
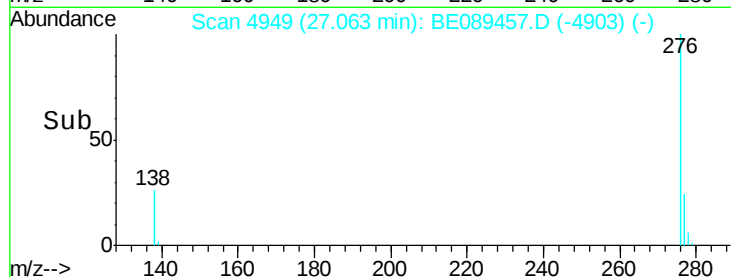
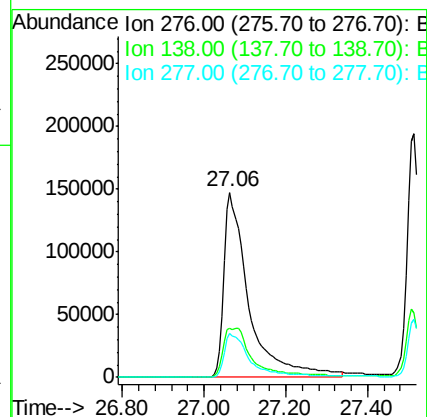
Tgt Ion: 276 Resp: 620614

Ion Ratio Lower Upper

276 100

138 31.4 25.4 38.0

277 24.7 19.8 29.6



#22

Perylene-d12

Concen: 5.00 ng

RT: 25.55 min Scan# 4665

Delta R.T. -0.00 min

Lab File: BE089457.D

Acq: 31 Jan 2015 5:07

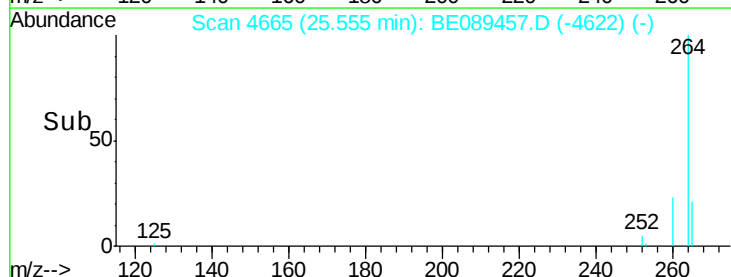
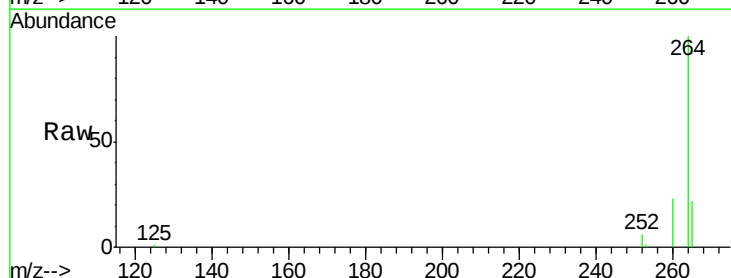
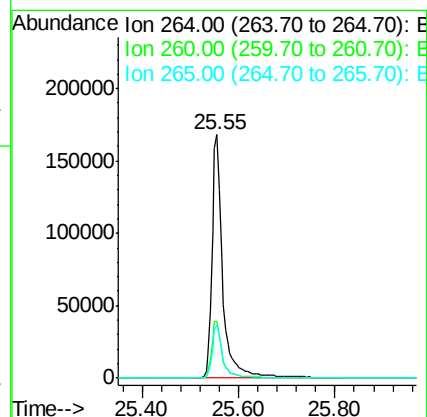
Tgt Ion: 264 Resp: 257960

Ion Ratio Lower Upper

264 100

260 23.3 19.4 29.0

265 21.6 17.0 25.6





#23

Benzo(b)fluoranthene

Concen: 2.55 ng

RT: 25.10 min Scan# 4565

Delta R.T. 0.00 min

Lab File: BE089457.D

Acq: 31 Jan 2015 5:07

Instrument :

BNA_E

ClientSampleId :

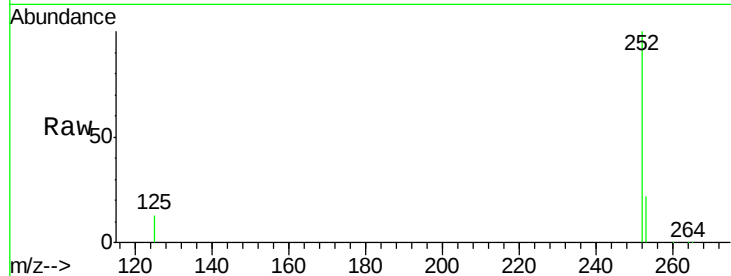
Tgt Ion:252 Resp: 112806

Ion Ratio Lower Upper

252 100

253 21.7 17.0 25.6

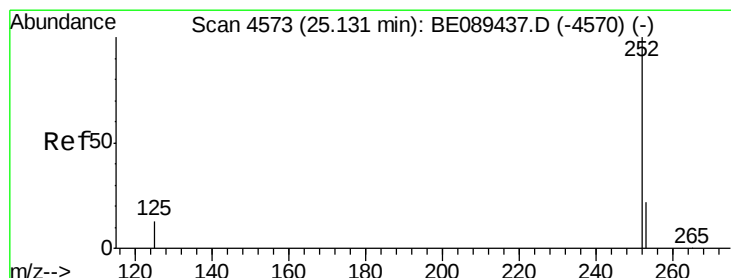
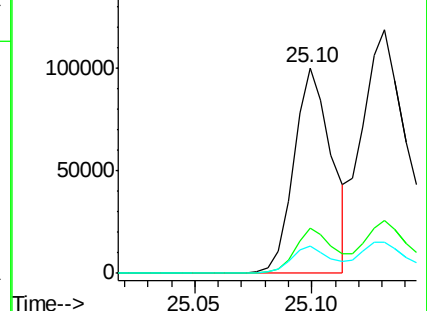
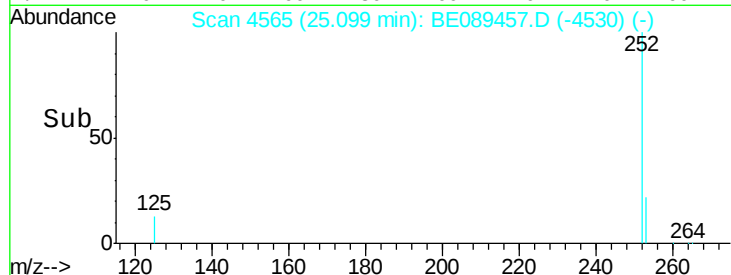
125 13.2 11.4 17.0



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: 3.17 ng

RT: 25.13 min Scan# 4572

Delta R.T. -0.00 min

Lab File: BE089457.D

Acq: 31 Jan 2015 5:07

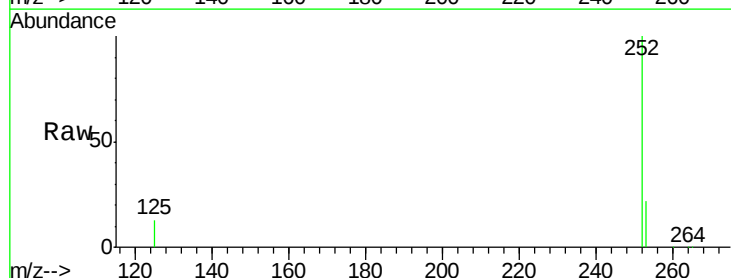
Tgt Ion:252 Resp: 208527

Ion Ratio Lower Upper

252 100

253 21.7 17.4 26.2

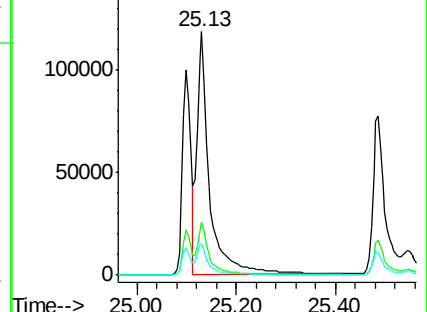
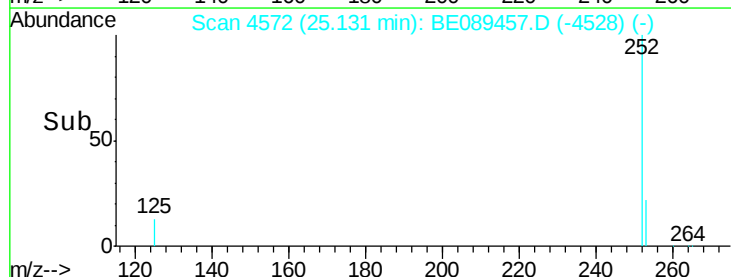
125 12.8 10.9 16.3



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: 2.76 ng

RT: 25.49 min Scan# 4650

Delta R.T. 0.00 min

Lab File: BE089457.D

Acq: 31 Jan 2015 5:07

Instrument :

BNA_E

ClientSampleId :

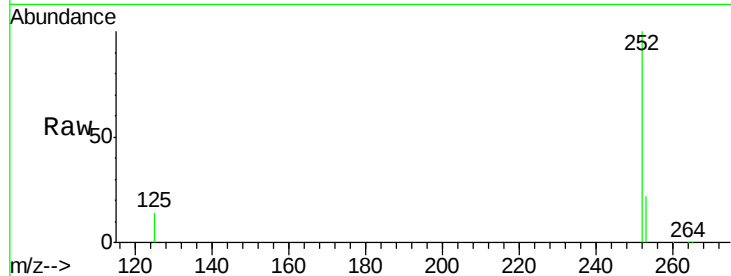
Tgt Ion: 252 Resp: 126112

Ion Ratio Lower Upper

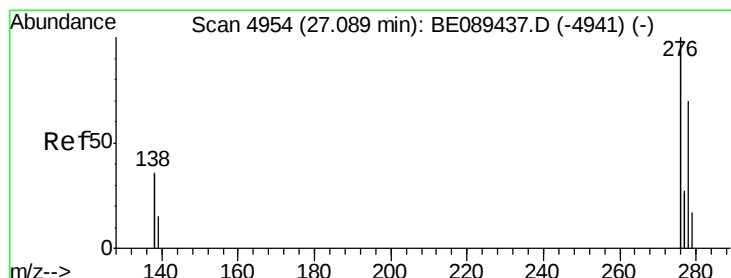
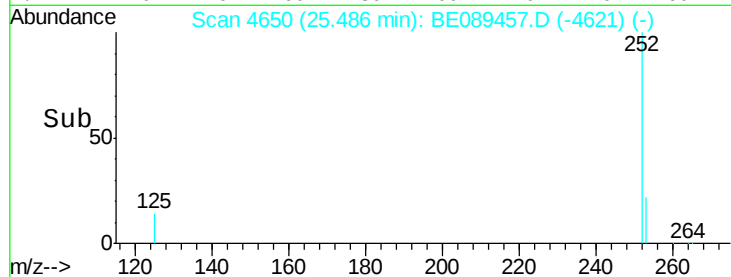
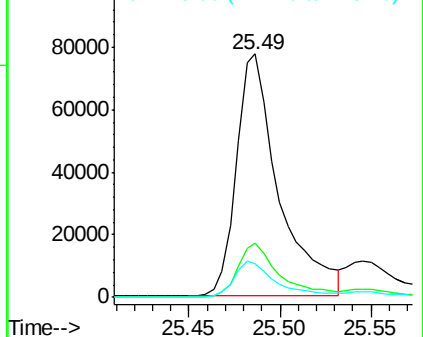
252 100

253 22.1 17.3 25.9

125 13.8 12.0 18.0



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



#26

Dibenzo(a,h)anthracene

Concen: 2.53 ng

RT: 27.09 min Scan# 4953

Delta R.T. 0.00 min

Lab File: BE089457.D

Acq: 31 Jan 2015 5:07

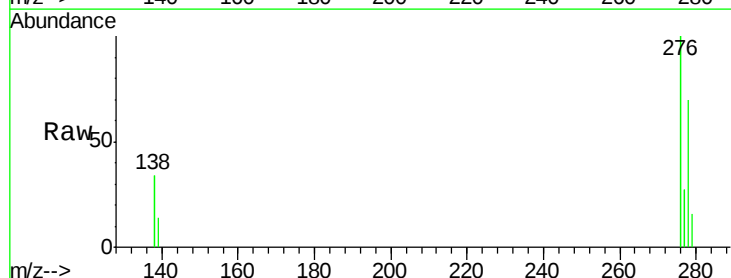
Tgt Ion: 278 Resp: 130483

Ion Ratio Lower Upper

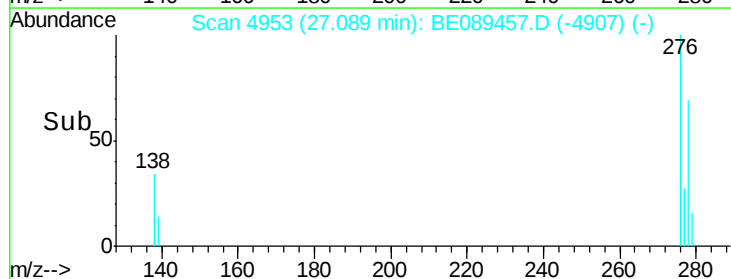
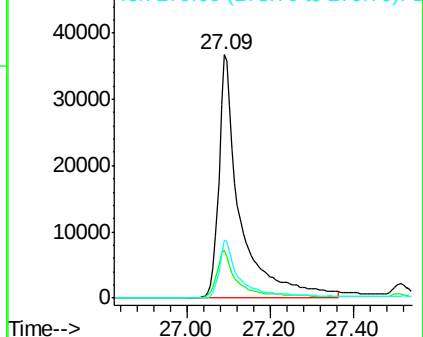
278 100

139 19.9 17.0 25.4

279 23.6 19.1 28.7



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





#27

Benzo(g,h,i)perylene

Concen: 2.73 ng

RT: 27.51 min Scan# 5018

Delta R.T. 0.01 min

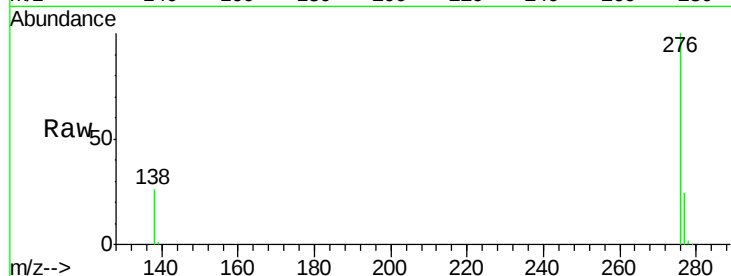
Lab File: BE089457.D

Acq: 31 Jan 2015 5:07

Instrument :

BNA_E

ClientSampleId :



Tgt Ion: 276 Resp: 563884

Ion Ratio Lower Upper

276 100

277 23.9 18.4 27.6

138 26.3 23.7 35.5

