

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE020515\
 Data File : BE089509.D
 Acq On : 5 Feb 2015 18:55
 Operator : TP/IZ
 Sample : PB81495BS
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 PB81495BS

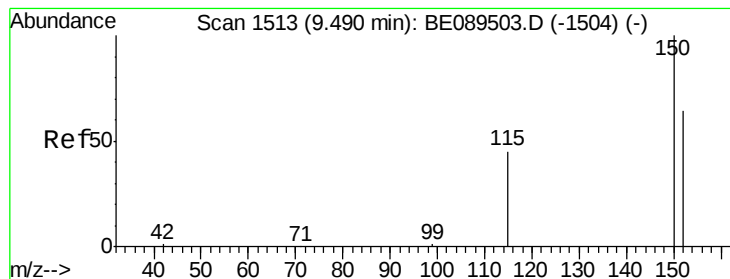
Quant Time: Feb 06 04:01:36 2015
 Quant Method : Z:\HPCHEM1\BNA_E\METHODS\SIMPAH-BE020515.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Feb 06 03:21:38 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	9.49	152	27059	5.00	ng	0.00
2) Naphthalene-d8	12.40	136	118419	5.00	ng	0.00
6) Acenaphthene-d10	16.59	164	58451	5.00	ng	0.00
11) Phenanthrene-d10	19.90	188	111968	5.00	ng	0.00
16) Chrysene-d12	23.76	240	120487	5.00	ng	0.00
22) Perylene-d12	25.46	264	115623	5.00	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
3) Nitrobenzene-d5	10.76	82	52736	5.84	ng	0.00
7) 2-Fluorobiphenyl	15.03	172	95926	5.21	ng	0.00
18) Terphenyl-d14	22.41	244	119165	5.68	ng	0.00

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
4) Naphthalene	12.45	128	146714	4.92	ng	99
5) 2-Methylnaphthalene	14.10	142	95583	4.89	ng	94
8) Acenaphthylene	16.24	152	616321	4.91	ng	100
9) Acenaphthene	16.65	154	91015	4.73	ng	99
10) Fluorene	17.91	166	108948	5.08	ng	99
12) Pentachlorophenol	19.58	266	13079	0.24	ng	94
13) Phenanthrene	19.94	178	168088	4.94	ng	99
14) Anthracene	20.04	178	168096	5.38	ng	100
15) Fluoranthene	21.83	202	171637	5.21	ng	99
17) Pyrene	22.15	202	184279	5.35	ng	99
19) Benzo(a)anthracene	23.75	228	687615	5.30	ng	99
20) Chrysene	23.79	228	690506	5.39	ng	99
21) Indeno(1,2,3-cd)pyrene	26.92	276	741647	4.95	ng	98
23) Benzo(b)fluoranthene	25.02	252	153282	5.07	ng	99
24) Benzo(k)fluoranthene	25.05	252	196519	5.33	ng	97
25) Benzo(a)pyrene	25.39	252	157230	5.22	ng	98
26) Dibenzo(a,h)anthracene	26.95	278	164234	5.23	ng	98
27) Benzo(g,h,i)perylene	27.36	276	626530	5.24	ng	98

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



#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 9.49 min Scan# 1513

Delta R.T. -0.00 min

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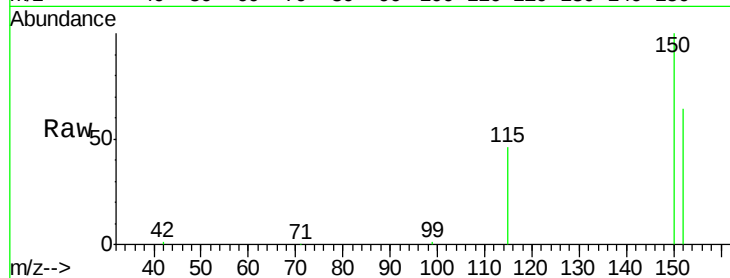
Tgt Ion:152 Resp: 27059

Ion Ratio Lower Upper

152 100

150 155.8 125.0 187.6

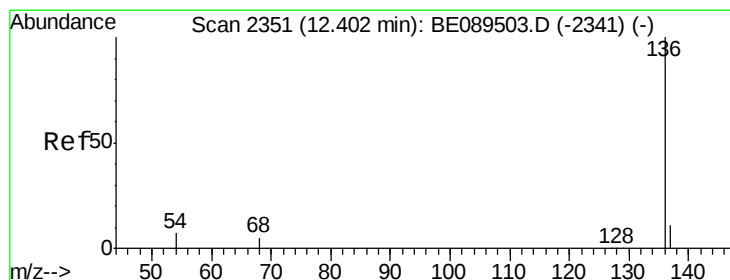
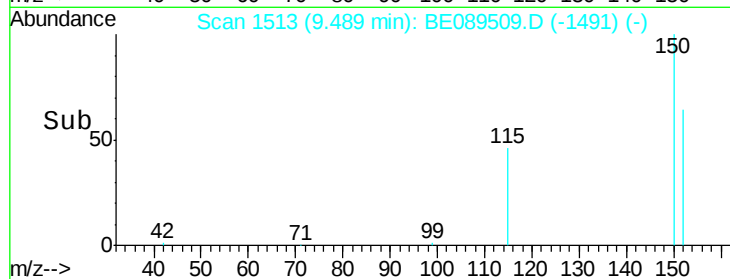
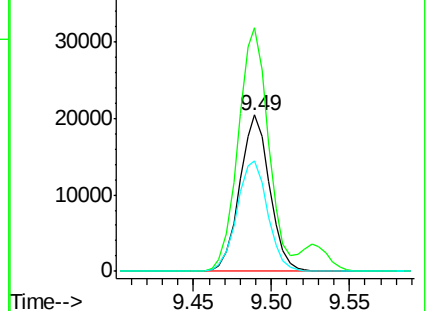
115 71.1 56.6 85.0



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: 12.40 min Scan# 2351

Delta R.T. -0.00 min

Lab File: BE089509.D

Acq: 5 Feb 2015 18:55

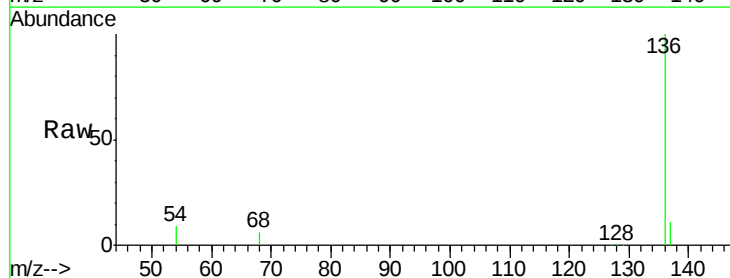
Tgt Ion:136 Resp: 118419

Ion Ratio Lower Upper

136 100

137 10.7 8.6 12.8

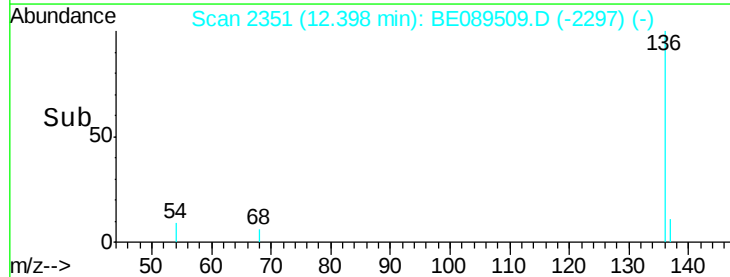
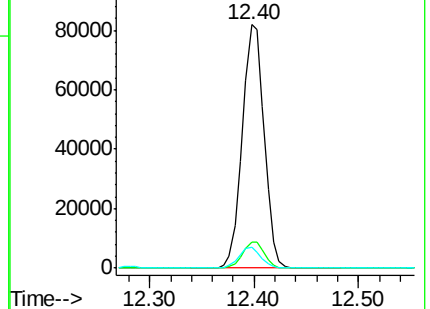
54 8.7 6.0 9.0

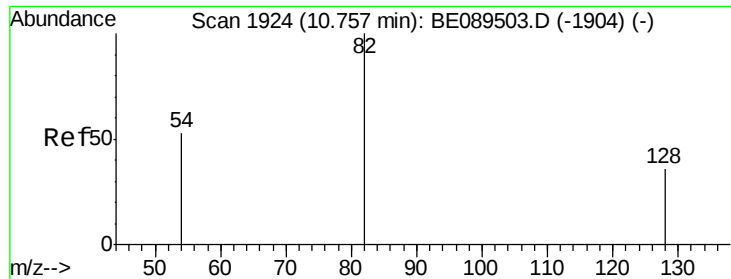


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BE0





#3

Nitrobenzene-d5

Concen: 5.84 ng

RT: 10.76 min Scan# 1925

Delta R.T. 0.00 min

Lab File: BE089509.D

Acq: 5 Feb 2015 18:55

Instrument :

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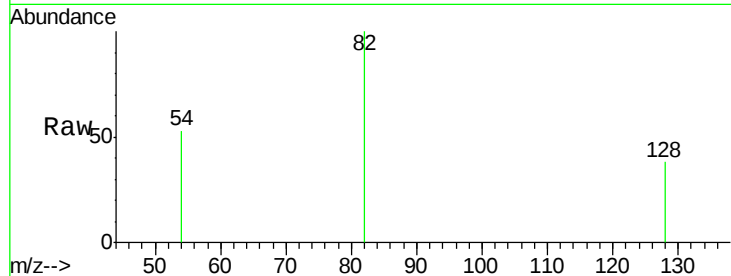
Tgt Ion: 82 Resp: 52736

Ion Ratio Lower Upper

82 100

128 37.6 29.3 43.9

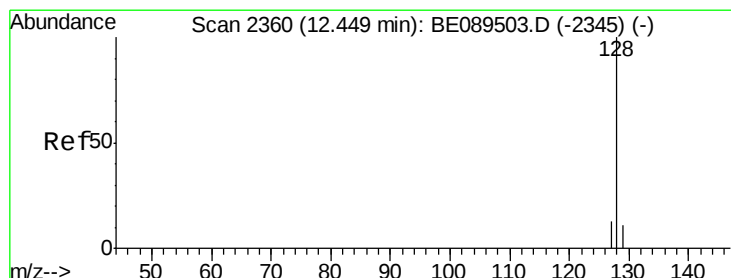
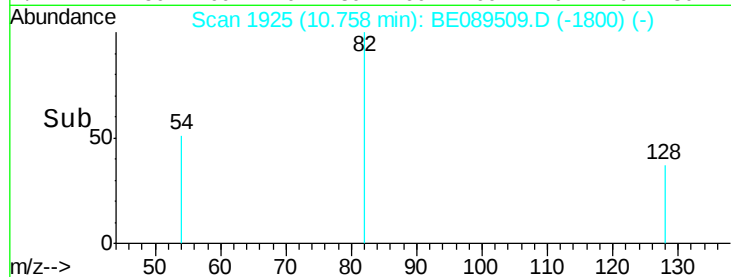
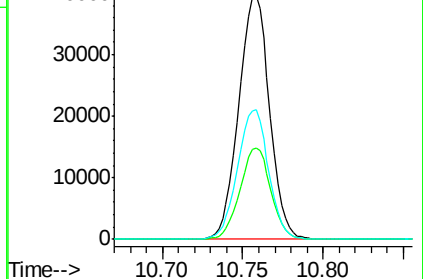
54 53.1 42.6 64.0



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: 4.92 ng

RT: 12.45 min Scan# 2360

Delta R.T. -0.00 min

Lab File: BE089509.D

Acq: 5 Feb 2015 18:55

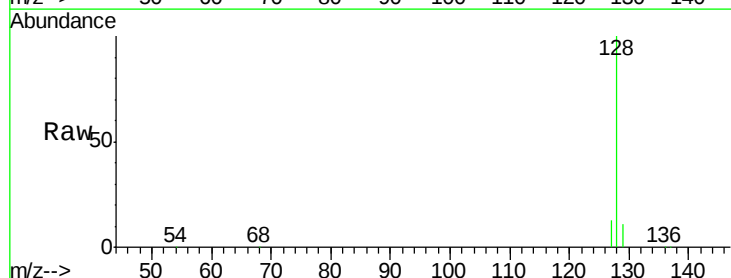
Tgt Ion: 128 Resp: 146714

Ion Ratio Lower Upper

128 100

129 10.8 8.8 13.2

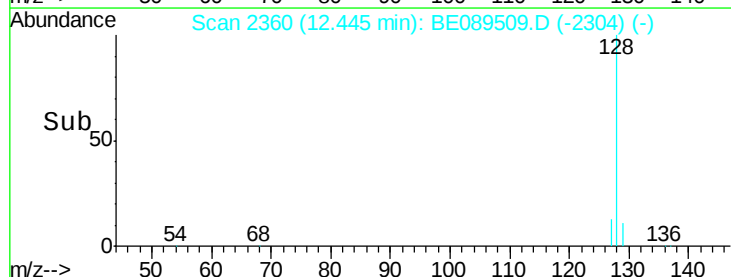
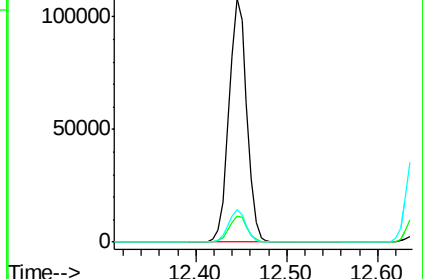
127 13.2 10.3 15.5



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: 4.89 ng

RT: 14.10 min Scan# 2694

Delta R.T. -0.00 min

Lab File: BE089509.D

Acq: 5 Feb 2015 18:55

Instrument :

BNA_E

ClientSampleId :

PB81495BS

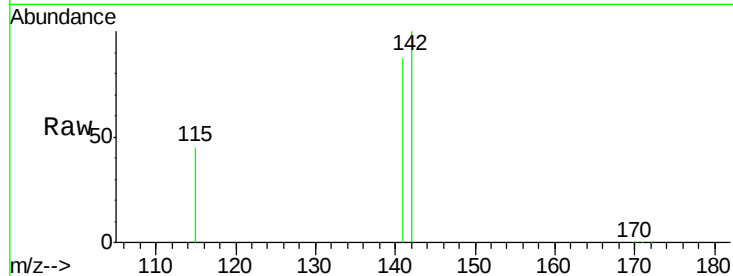
Tgt Ion:142 Resp: 95583

Ion Ratio Lower Upper

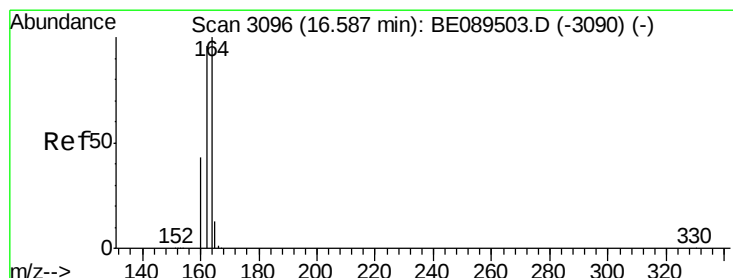
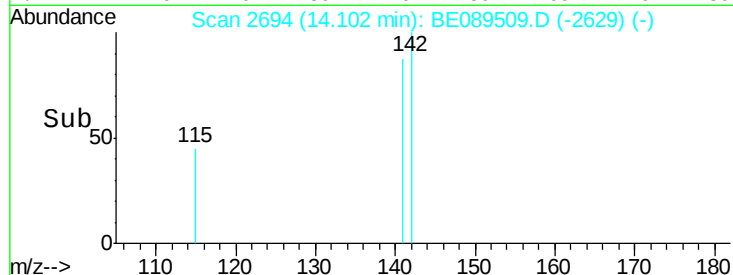
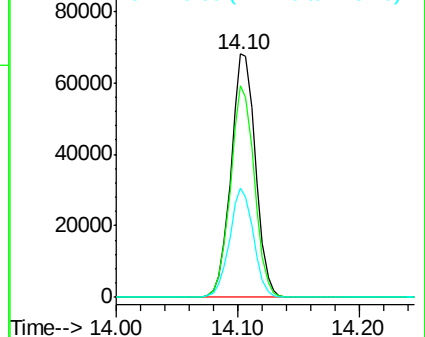
142 100

141 86.8 66.3 99.5

115 45.1 31.1 46.7



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: 16.59 min Scan# 3097

Delta R.T. 0.00 min

Lab File: BE089509.D

Acq: 5 Feb 2015 18:55

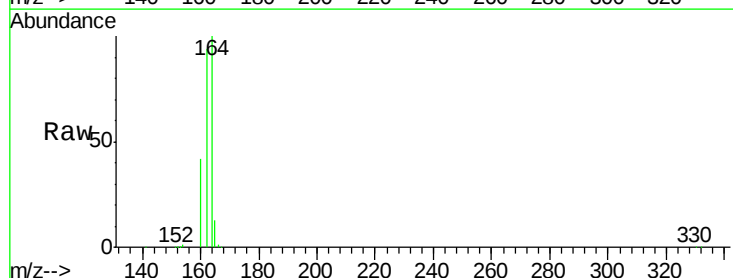
Tgt Ion:164 Resp: 58451

Ion Ratio Lower Upper

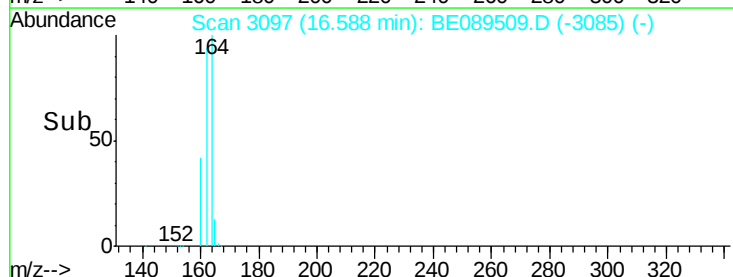
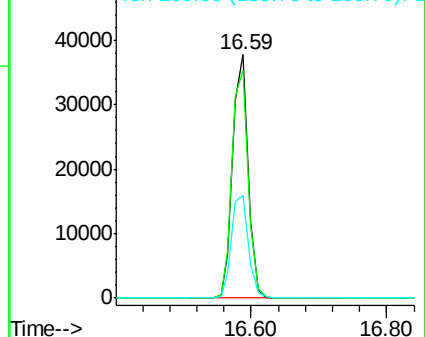
164 100

162 93.6 76.6 115.0

160 42.2 34.6 52.0



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: 5.21 ng

RT: 15.03 min Scan# 2898

Delta R.T. -0.00 min

Lab File: BE089509.D

Acq: 5 Feb 2015 18:55

Instrument :

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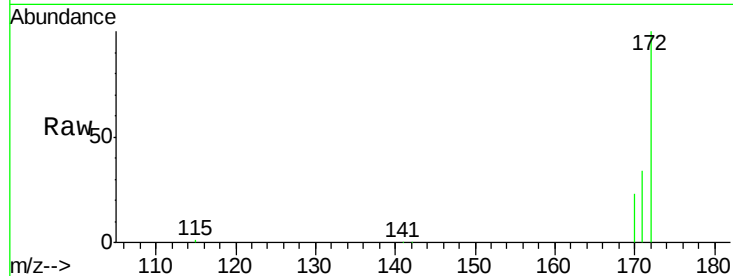
Tgt Ion:172 Resp: 95926

Ion Ratio Lower Upper

172 100

171 34.4 27.4 41.0

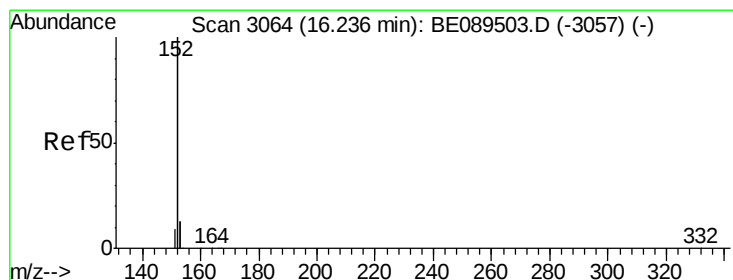
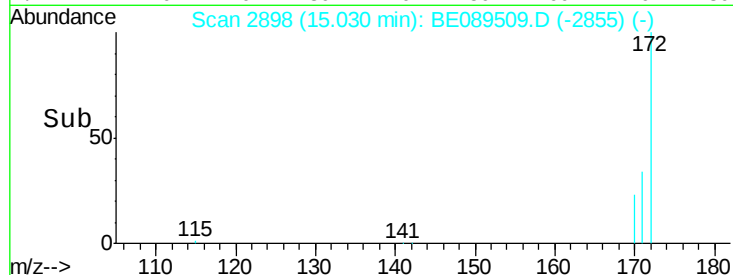
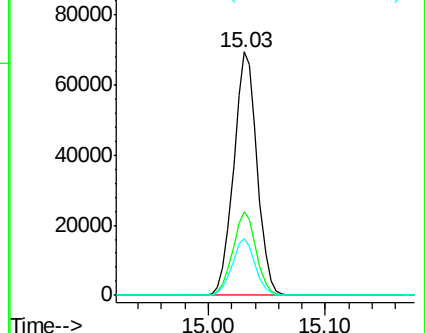
170 23.1 18.4 27.6



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: 4.91 ng

RT: 16.24 min Scan# 3065

Delta R.T. 0.00 min

Lab File: BE089509.D

Acq: 5 Feb 2015 18:55

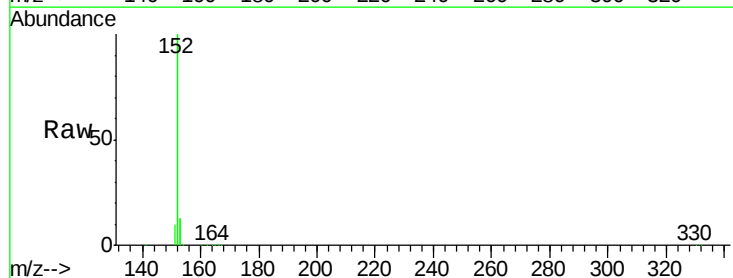
Tgt Ion:152 Resp: 616321

Ion Ratio Lower Upper

152 100

151 4.9 3.9 5.9

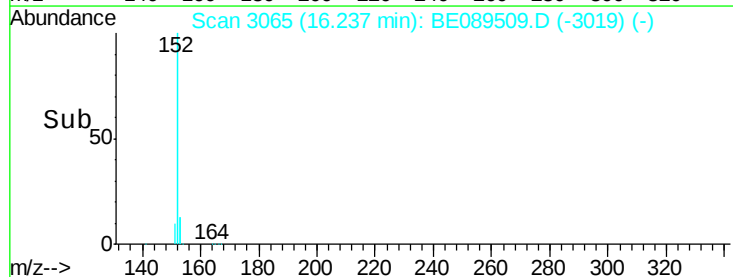
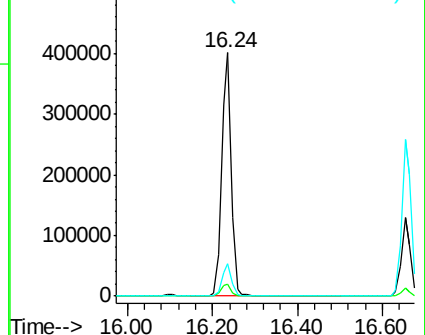
153 12.9 10.4 15.6

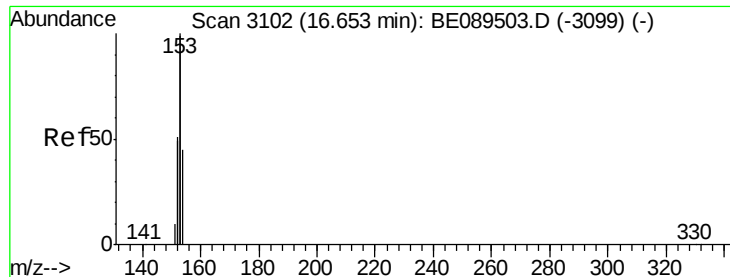


Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E





#9

Acenaphthene

Concen: 4.73 ng

RT: 16.65 min Scan# 3103

Delta R.T. 0.00 min

Lab File: BE089509.D

Acq: 5 Feb 2015 18:55

Instrument :

BNA_E

ClientSampleId :

PB81495BS

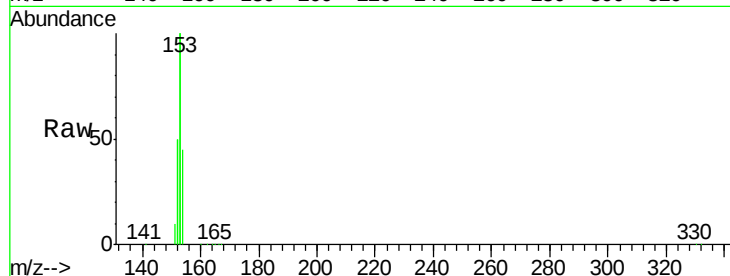
Tgt Ion:154 Resp: 91015

Ion Ratio Lower Upper

154 100

153 426.3 341.5 512.3

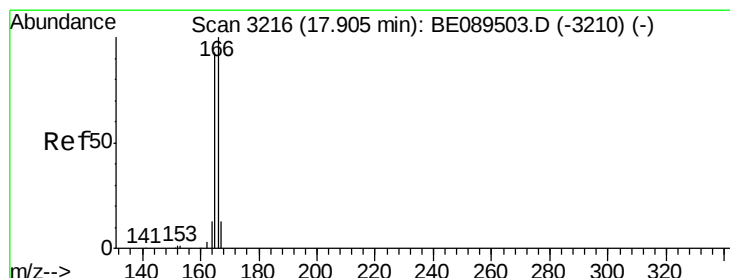
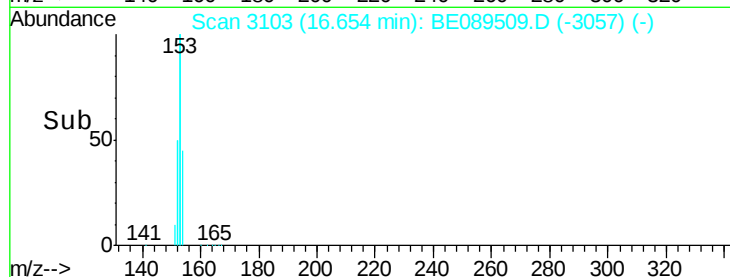
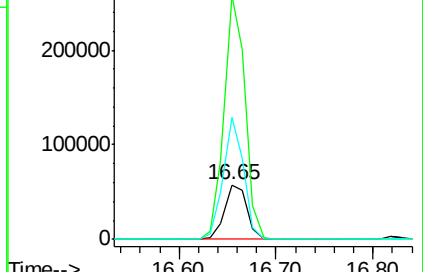
152 205.5 166.6 249.8



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



#10

Fluorene

Concen: 5.08 ng

RT: 17.91 min Scan# 3217

Delta R.T. 0.00 min

Lab File: BE089509.D

Acq: 5 Feb 2015 18:55

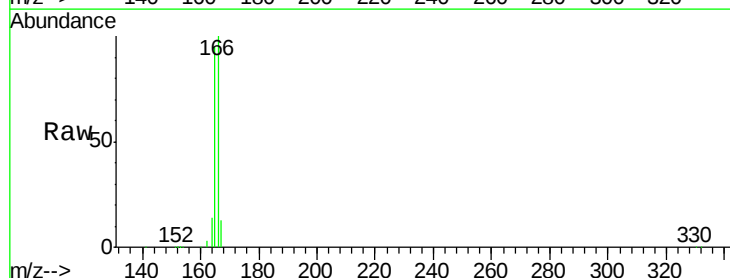
Tgt Ion:166 Resp: 108948

Ion Ratio Lower Upper

166 100

165 93.0 73.6 110.4

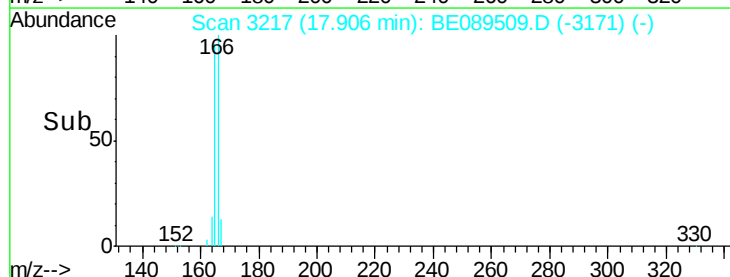
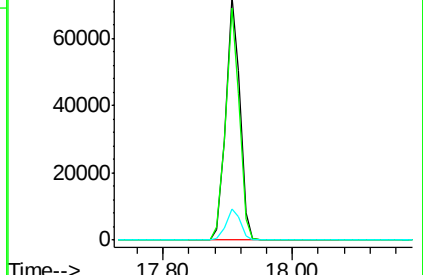
167 13.0 10.6 15.8

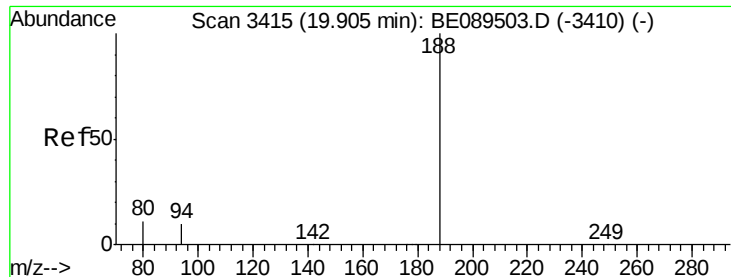


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E

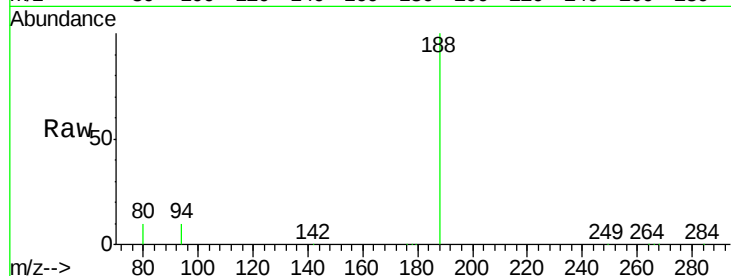




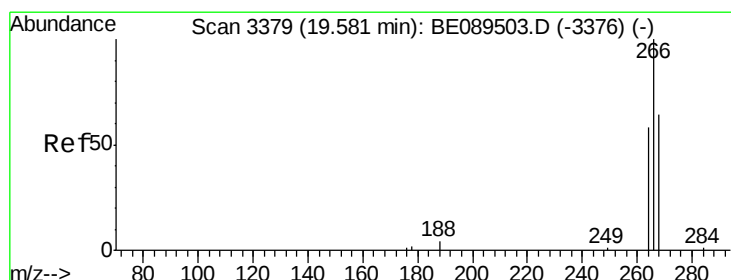
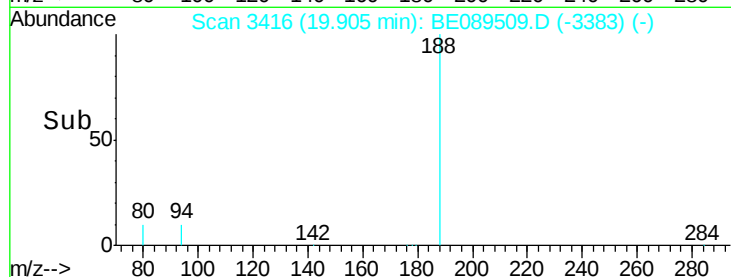
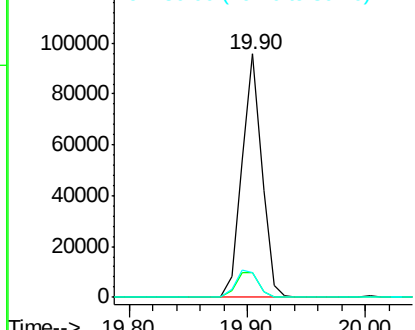
#11
Phenanthrene-d10
Concen: 5.00 ng
RT: 19.90 min Scan# 3416
Delta R.T. -0.00 min
Lab File: BE089509.D
Acq: 5 Feb 2015 18:55

Instrument :
BNA_E
ClientSampleId :
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Tgt Ion:188 Resp: 111968
Ion Ratio Lower Upper
188 100
94 10.2 8.2 12.4
80 10.2 8.7 13.1

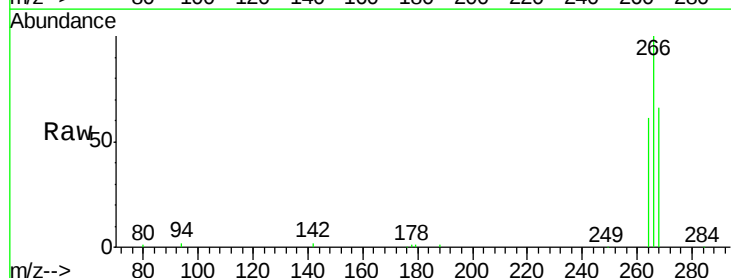


Abundance Ion 188.00 (187.70 to 188.70): E
Ion 94.00 (93.70 to 94.70): BE0
Ion 80.00 (79.70 to 80.70): BE0

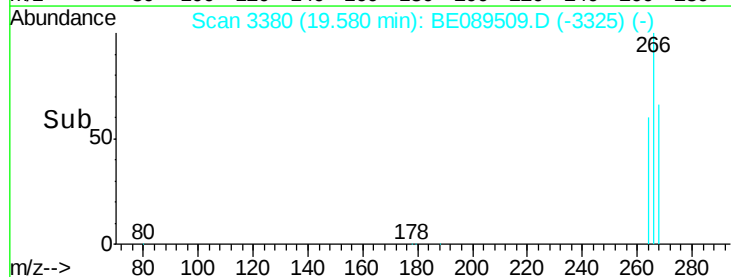
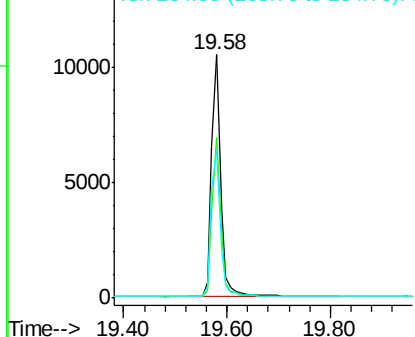


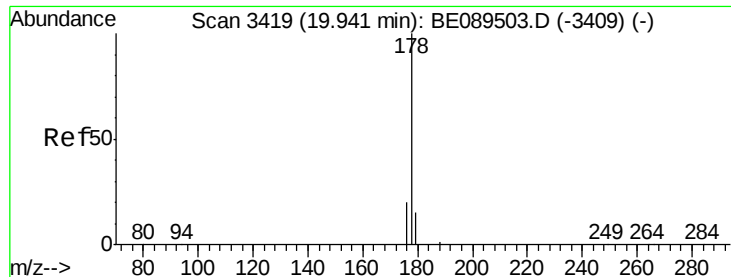
#12
Pentachlorophenol
Concen: 0.24 ng
RT: 19.58 min Scan# 3380
Delta R.T. -0.00 min
Lab File: BE089509.D
Acq: 5 Feb 2015 18:55

Tgt Ion:266 Resp: 13079
Ion Ratio Lower Upper
266 100
268 66.0 56.7 85.1
264 60.6 51.9 77.9



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: 4.94 ng

RT: 19.94 min Scan# 3420

Delta R.T. -0.00 min

Lab File: BE089509.D

Acq: 5 Feb 2015 18:55

Instrument :

BNA_E

ClientSampleId :

PB81495BS

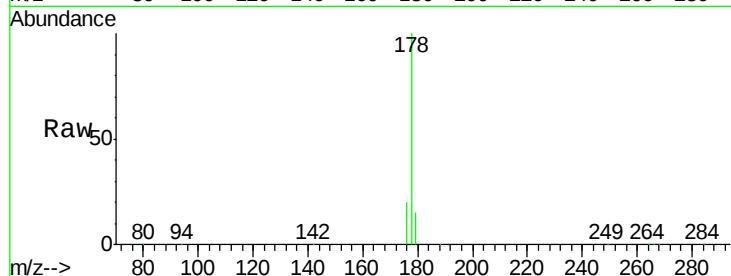
Tgt Ion:178 Resp: 168088

Ion Ratio Lower Upper

178 100

176 19.0 15.4 23.0

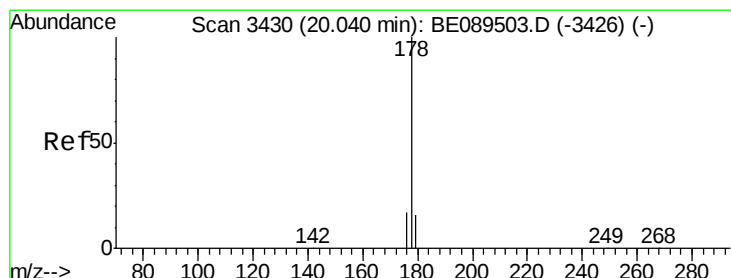
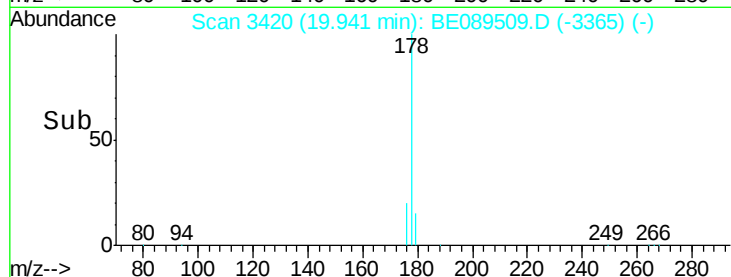
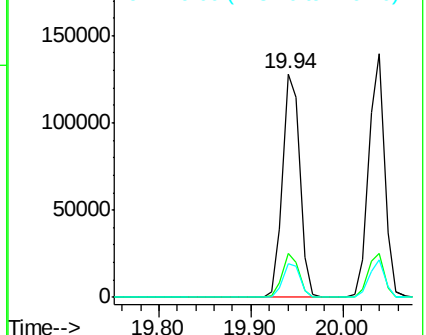
179 15.2 12.4 18.6



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: 5.38 ng

RT: 20.04 min Scan# 3431

Delta R.T. -0.00 min

Lab File: BE089509.D

Acq: 5 Feb 2015 18:55

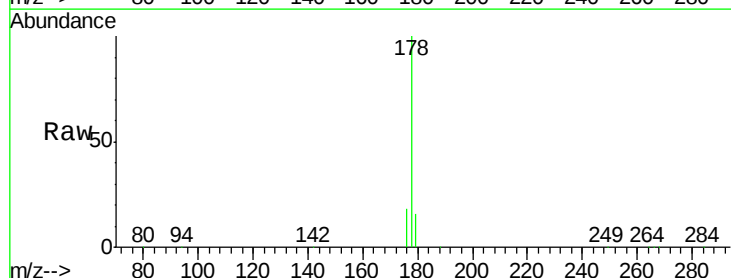
Tgt Ion:178 Resp: 168096

Ion Ratio Lower Upper

178 100

176 18.5 14.6 22.0

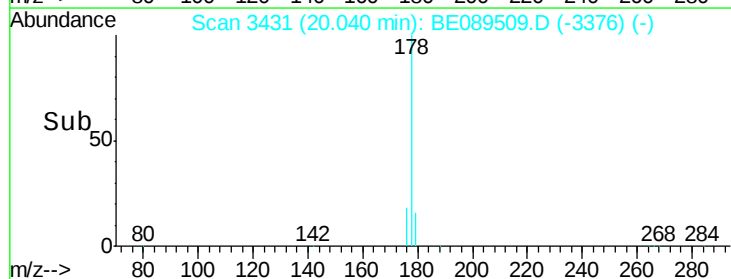
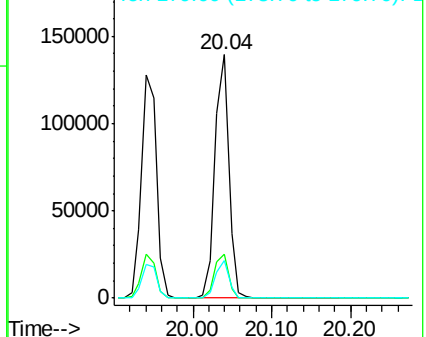
179 15.0 12.1 18.1

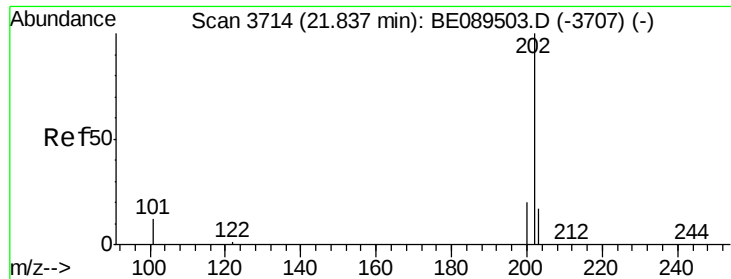


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E

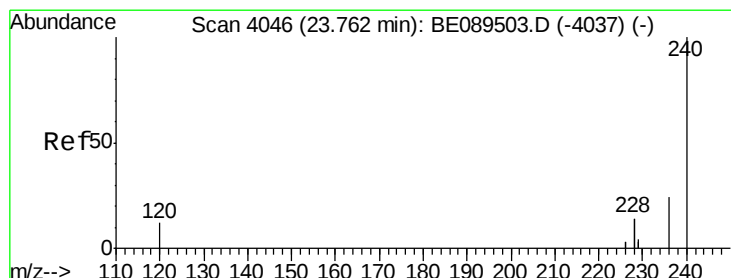
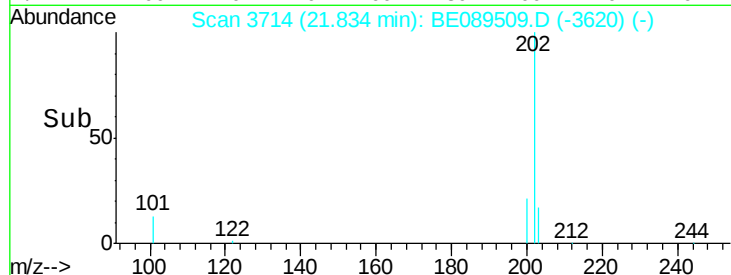
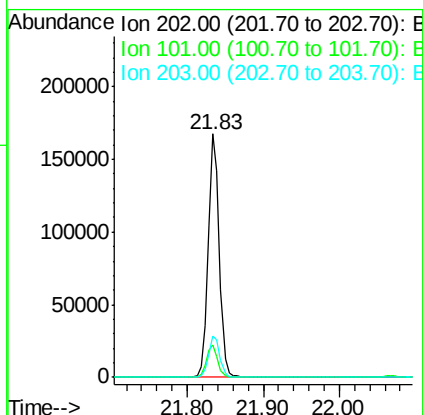
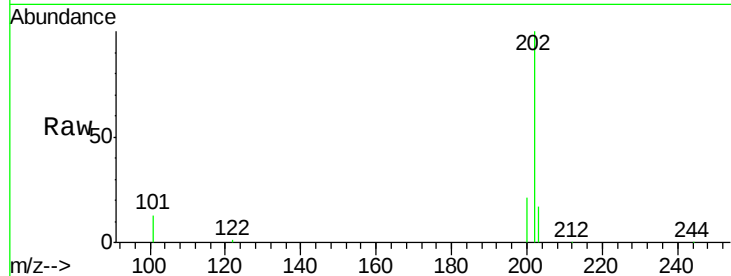




#15
 Fluoranthene
 Concen: 5.21 ng
 RT: 21.83 min Scan# 3714
 Delta R.T. -0.00 min
 Lab File: BE089509.D
 Acq: 5 Feb 2015 18:55

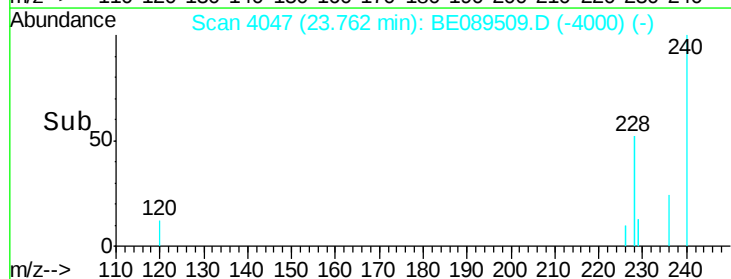
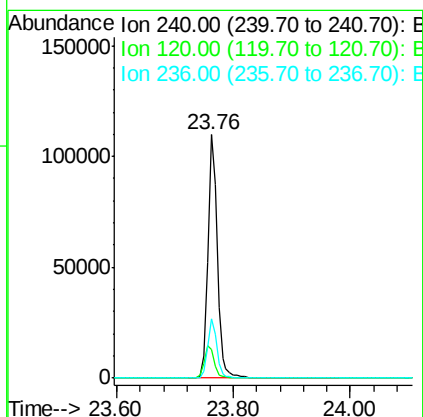
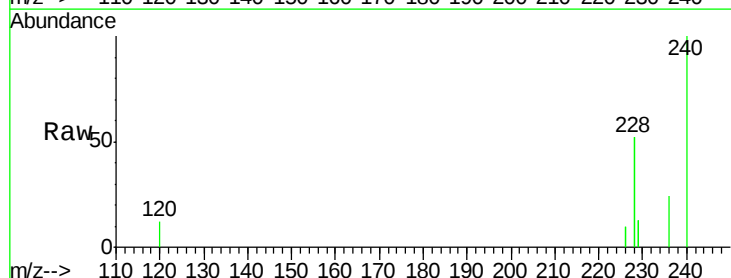
Instrument :
 BNA_E
 ClientSampleId :
 PB81495BS

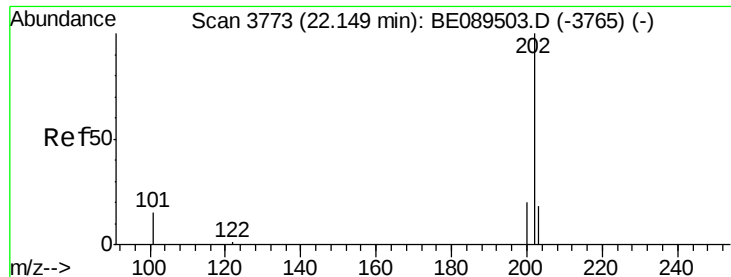
Tgt Ion: 202 Resp: 171637
 Ion Ratio Lower Upper
 202 100
 101 13.4 11.3 16.9
 203 17.3 13.8 20.6



#16
 Chrysene-d12
 Concen: 5.00 ng
 RT: 23.76 min Scan# 4047
 Delta R.T. -0.00 min
 Lab File: BE089509.D
 Acq: 5 Feb 2015 18:55

Tgt Ion: 240 Resp: 120487
 Ion Ratio Lower Upper
 240 100
 120 11.9 9.6 14.4
 236 24.5 19.4 29.2

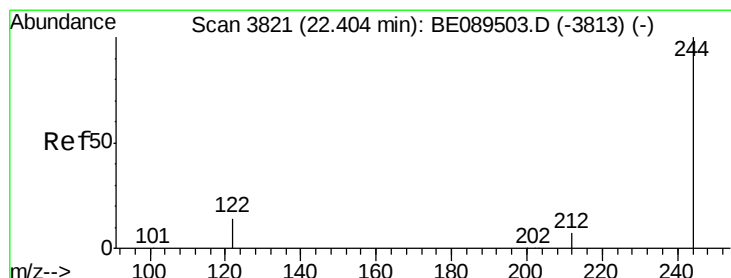
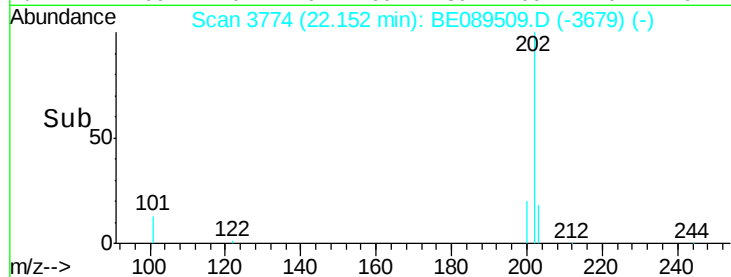
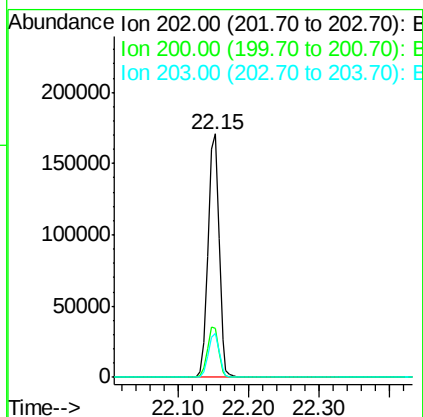
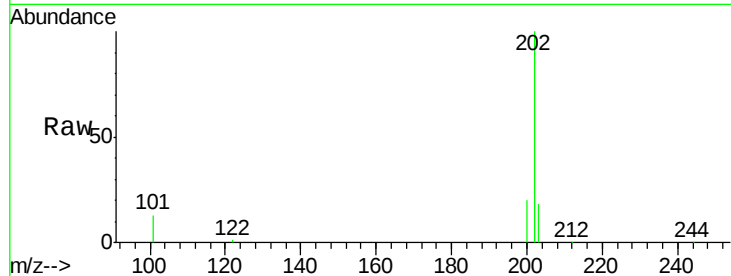




#17
 Pyrene
 Concen: 5.35 ng
 RT: 22.15 min Scan# 3774
 Delta R.T. 0.00 min
 Lab File: BE089509.D
 Acq: 5 Feb 2015 18:55

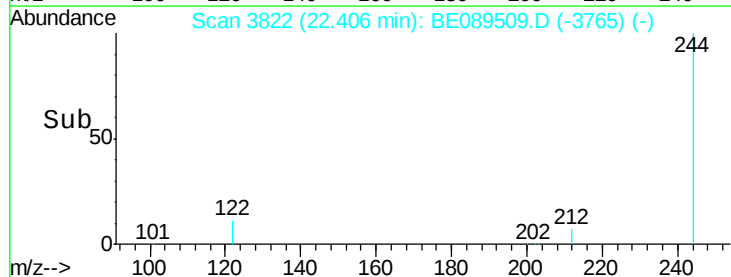
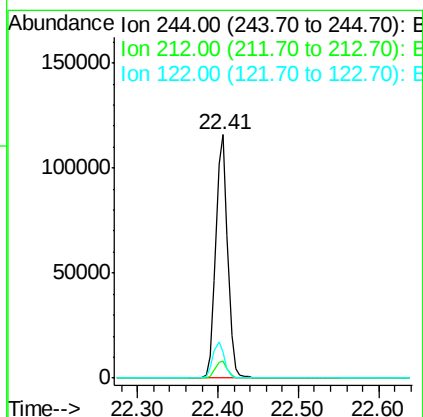
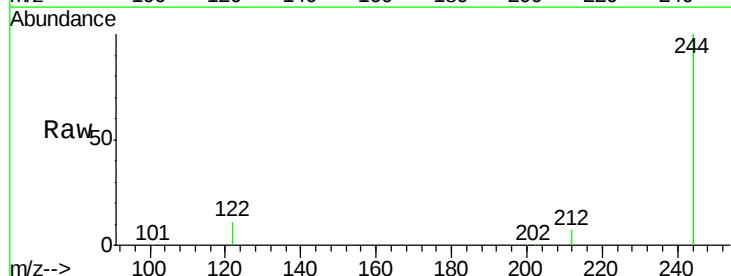
Instrument :
 BNA_E
 ClientSampleId :
 PB81495BS

Tgt Ion:202 Resp: 184279
 Ion Ratio Lower Upper
 202 100
 200 21.0 16.5 24.7
 203 17.8 14.0 21.0



#18
 Terphenyl-d14
 Concen: 5.68 ng
 RT: 22.41 min Scan# 3822
 Delta R.T. 0.00 min
 Lab File: BE089509.D
 Acq: 5 Feb 2015 18:55

Tgt Ion:244 Resp: 119165
 Ion Ratio Lower Upper
 244 100
 212 6.9 5.5 8.3
 122 10.8 11.1 16.7#





#19

Benzo(a)anthracene

Concen: 5.30 ng

RT: 23.75 min Scan# 4045

Delta R.T. 0.00 min

Lab File: BE089509.D

Acq: 5 Feb 2015 18:55

Instrument :

BNA_E

ClientSampleId :

PB81495BS

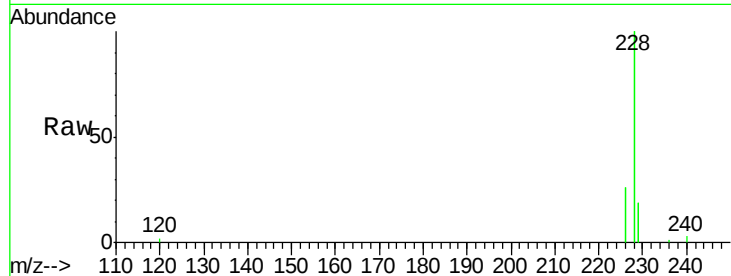
Tgt Ion:228 Resp: 687615

Ion Ratio Lower Upper

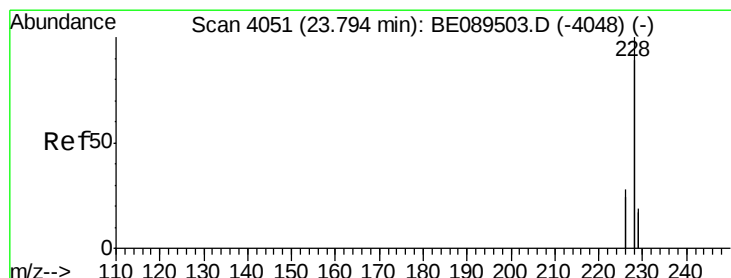
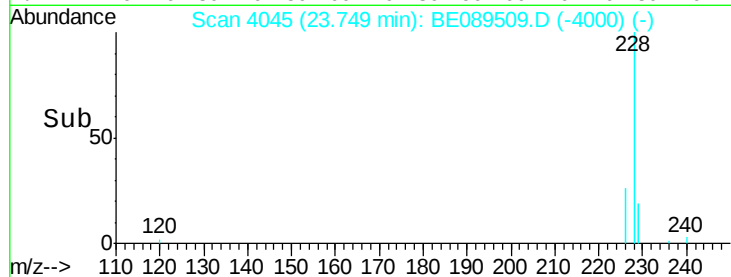
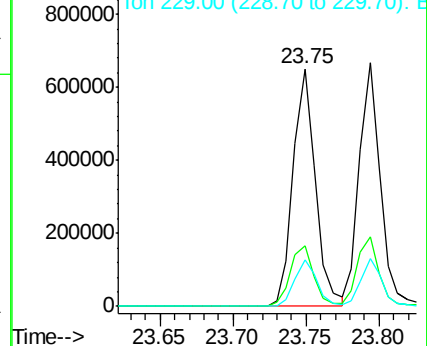
228 100

226 25.8 21.0 31.6

229 19.5 15.5 23.3



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: 5.39 ng

RT: 23.79 min Scan# 4052

Delta R.T. 0.00 min

Lab File: BE089509.D

Acq: 5 Feb 2015 18:55

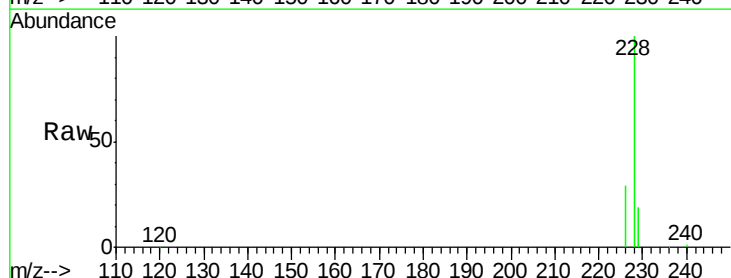
Tgt Ion:228 Resp: 690506

Ion Ratio Lower Upper

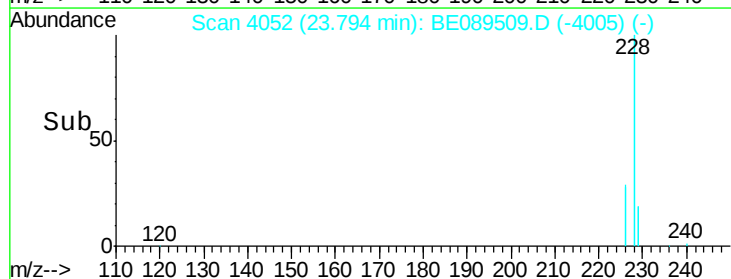
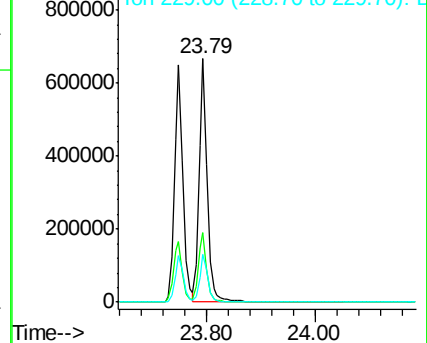
228 100

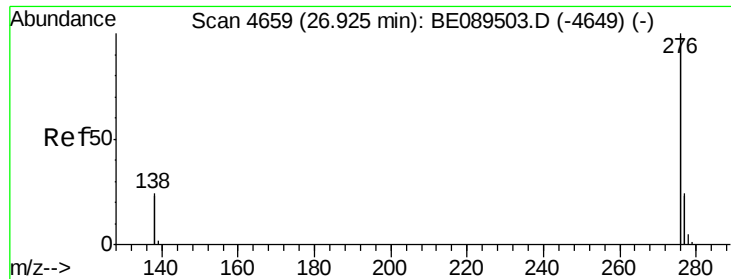
226 28.5 22.3 33.5

229 19.4 15.4 23.0



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





#21

Indeno(1,2,3-cd)pyrene

Concen: 4.95 ng

RT: 26.92 min Scan# 4659

Delta R.T. -0.00 min

Lab File: BE089509.D

Acq: 5 Feb 2015 18:55

Instrument :

BNA_E

ClientSampleId :

PB81495BS

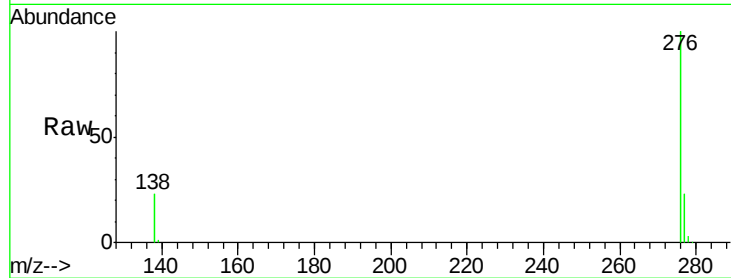
Tgt Ion:276 Resp: 741647

Ion Ratio Lower Upper

276 100

138 27.4 23.2 34.8

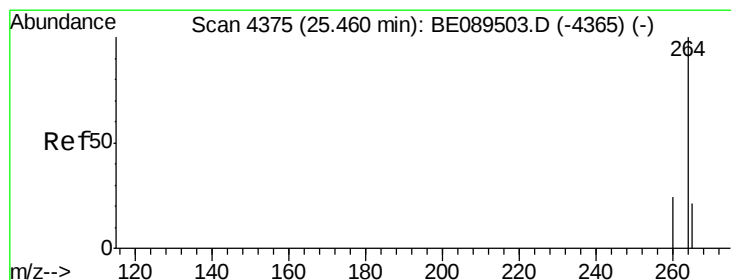
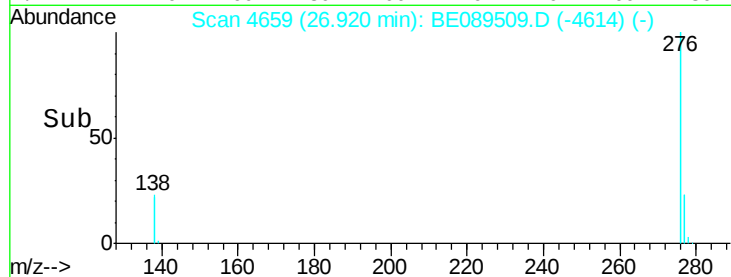
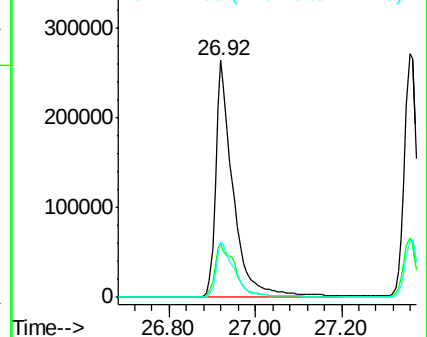
277 25.2 19.8 29.6



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



#22

Perylene-d12

Concen: 5.00 ng

RT: 25.46 min Scan# 4376

Delta R.T. -0.00 min

Lab File: BE089509.D

Acq: 5 Feb 2015 18:55

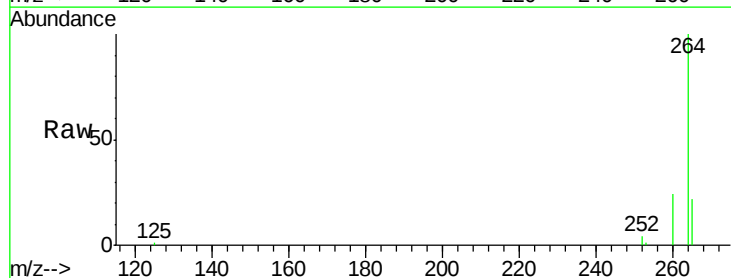
Tgt Ion:264 Resp: 115623

Ion Ratio Lower Upper

264 100

260 23.7 19.0 28.6

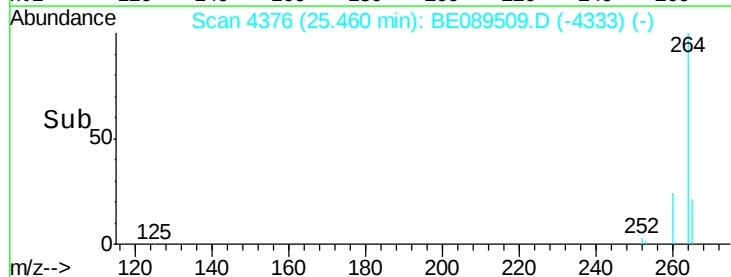
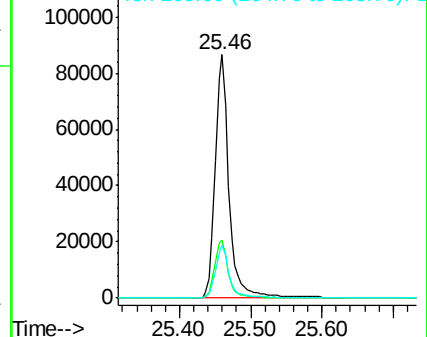
265 21.6 17.0 25.6

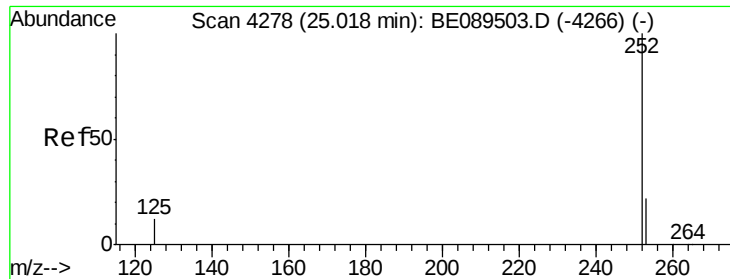


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





#23

Benzo(b)fluoranthene

Concen: 5.07 ng

RT: 25.02 min Scan# 4279

Delta R.T. -0.00 min

Lab File: BE089509.D

Acq: 5 Feb 2015 18:55

Instrument :

BNA_E

ClientSampleId :

PB81495BS

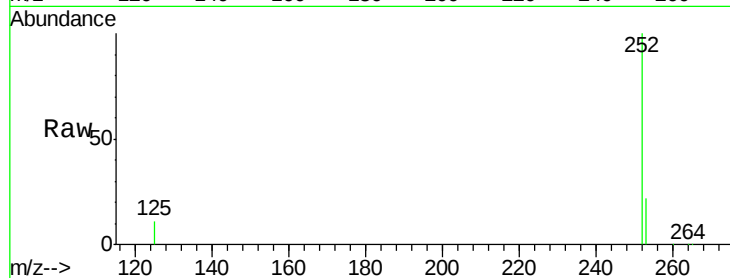
Tgt Ion:252 Resp: 153282

Ion Ratio Lower Upper

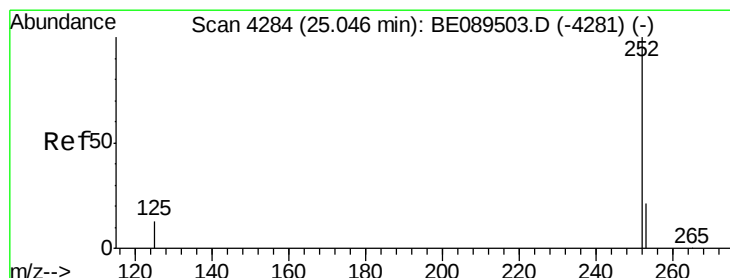
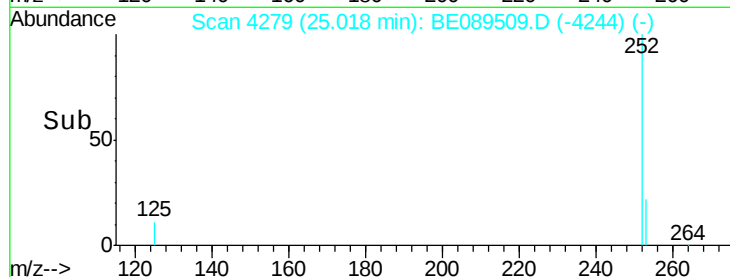
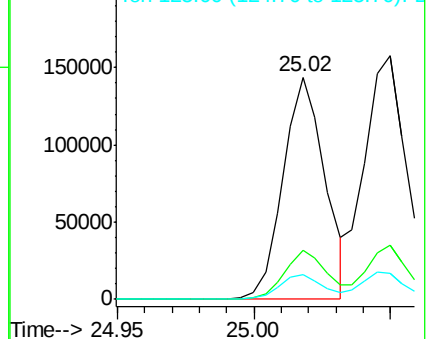
252 100

253 21.8 17.4 26.0

125 11.3 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



#24

Benzo(k)fluoranthene

Concen: 5.33 ng

RT: 25.05 min Scan# 4286

Delta R.T. 0.00 min

Lab File: BE089509.D

Acq: 5 Feb 2015 18:55

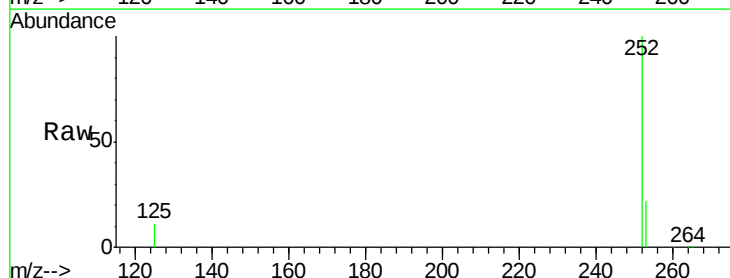
Tgt Ion:252 Resp: 196519

Ion Ratio Lower Upper

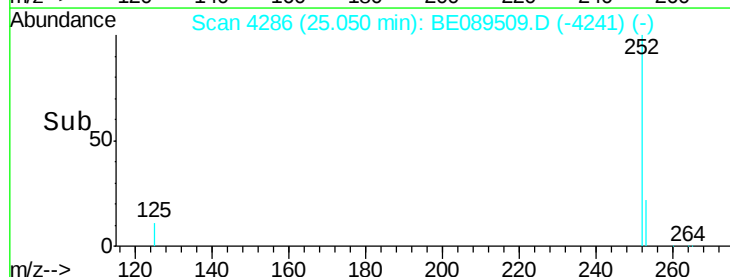
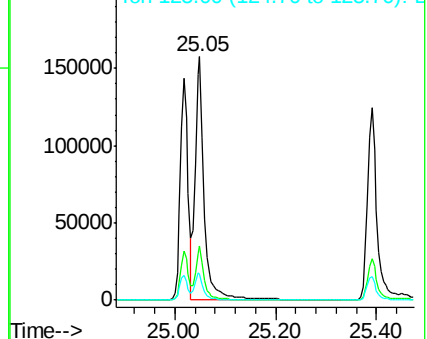
252 100

253 22.2 17.0 25.6

125 10.7 10.2 15.4



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





#25

Benzo(a)pyrene

Concen: 5.22 ng

RT: 25.39 min Scan# 4361

Delta R.T. 0.00 min

Lab File: BE089509.D

Acq: 5 Feb 2015 18:55

Instrument :

BNA_E

ClientSampleId :

PB81495BS

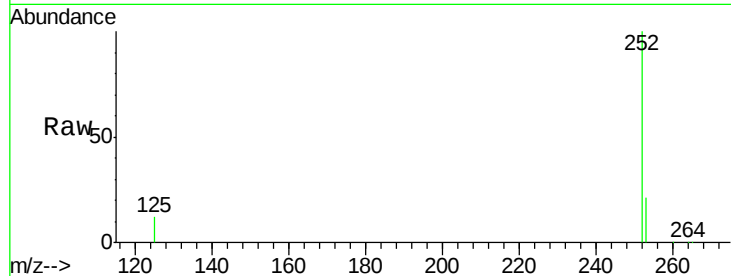
Tgt Ion:252 Resp: 157230

Ion Ratio Lower Upper

252 100

253 21.5 17.8 26.6

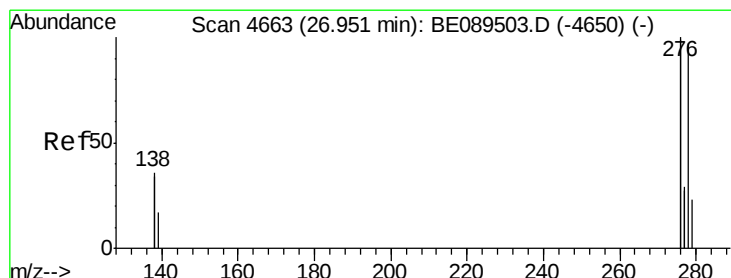
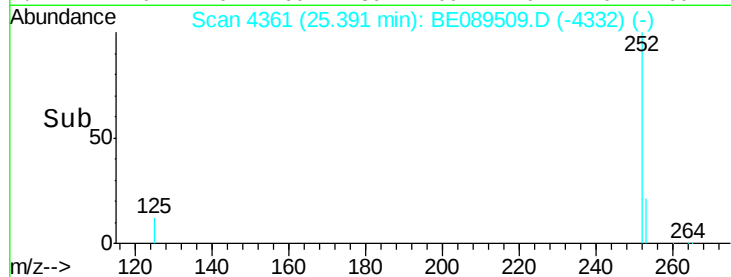
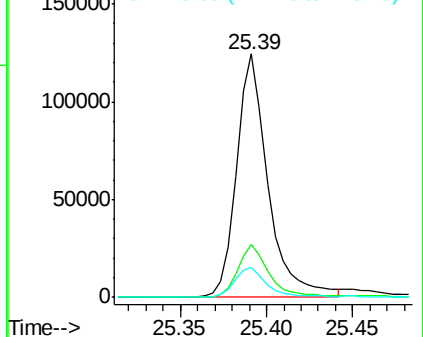
125 12.2 10.7 16.1



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: 5.23 ng

RT: 26.95 min Scan# 4664

Delta R.T. 0.00 min

Lab File: BE089509.D

Acq: 5 Feb 2015 18:55

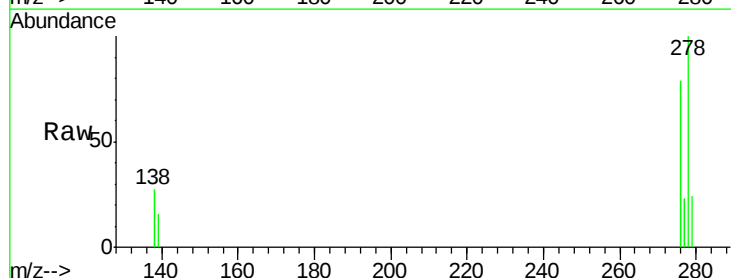
Tgt Ion:278 Resp: 164234

Ion Ratio Lower Upper

278 100

139 16.0 14.6 22.0

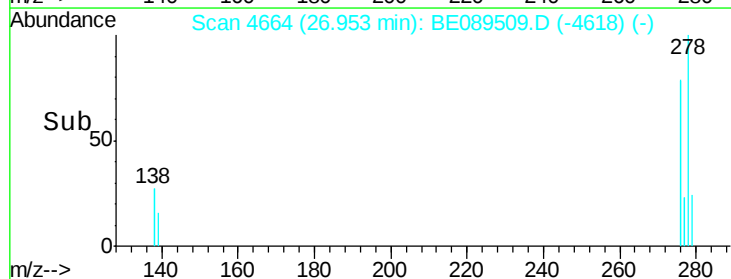
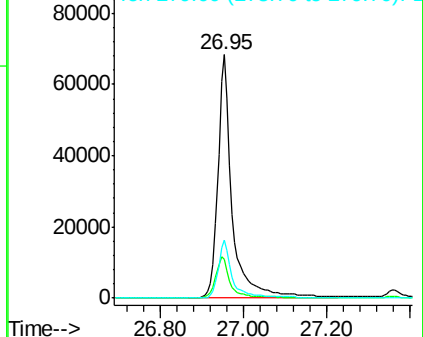
279 23.8 19.0 28.4



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: 5.24 ng

RT: 27.36 min Scan# 4726

Delta R.T. 0.00 min

Lab File: BE089509.D

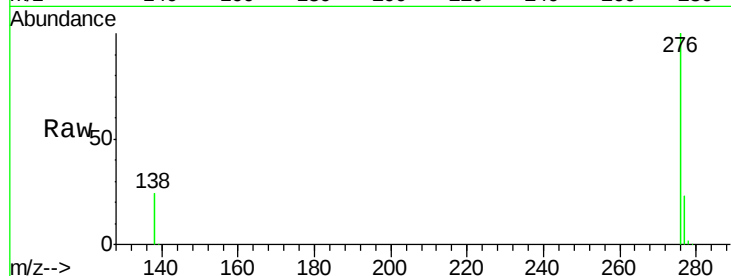
Acq: 5 Feb 2015 18:55

Instrument :

BNA_E

ClientSampleId :

PB81495BS



Tgt Ion: 276 Resp: 626530

Ion Ratio Lower Upper

276 100

277 22.9 18.6 28.0

138 24.4 20.8 31.2

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

