

Data Path : Z:\HPCHEM1\BNA E\DATA\BE020515\
 Data File : BE089510.D
 Acq On : 5 Feb 2015 19:34
 Operator : TP/IZ
 Sample : PB81495BSD
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 PB81495BSD

Quant Time: Feb 06 04:02:58 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	30122	5.00	ng	0.00
2) Naphthalene-d8	12.40	136	121332	5.00	ng	0.00
6) Acenaphthene-d10	16.59	164	53893	5.00	ng	0.00
11) Phenanthrene-d10	19.91	188	103888	5.00	ng	0.00
16) Chrysene-d12	23.77	240	116084	5.00	ng	0.00
22) Perylene-d12	25.46	264	114093	5.00	ng	0.00

System Monitoring Compounds						
3) Nitrobenzene-d5	10.76	82	63588	6.87	ng	0.00
7) 2-Fluorobiphenyl	15.03	172	109276	6.44	ng	0.00
18) Terphenyl-d14	22.41	244	139350	6.90	ng	0.00

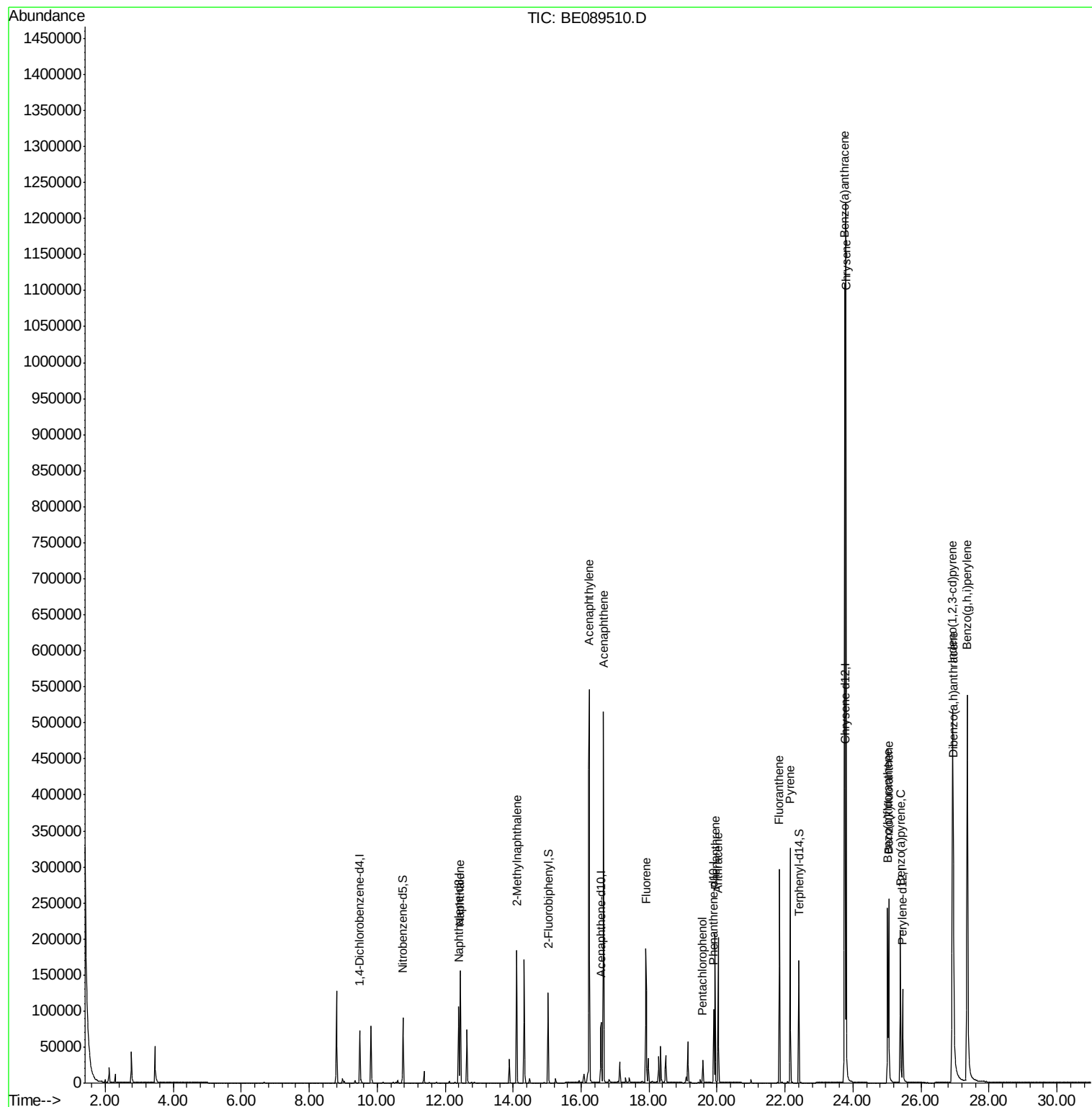
Target Compounds				Ovalue		
4) Naphthalene	12.44	128	173222	5.67	ng	100
5) 2-Methylnaphthalene	14.10	142	111738	5.58	ng	96
8) Acenaphthylene	16.24	152	710453	6.14	ng	100
9) Acenaphthene	16.65	154	104227	5.87	ng	99
10) Fluorene	17.91	166	126137	6.81	ng	99
12) Pentachlorophenol	19.58	266	17542	0.35	ng	94
13) Phenanthrene	19.94	178	195764	6.21	ng	99
14) Anthracene	20.04	178	197220	7.29	ng	100
15) Fluoranthene	21.83	202	202850	7.22	ng	99
17) Pyrene	22.15	202	216333	6.52	ng	99
19) Benzo(a)anthracene	23.75	228	830740	7.11	ng	99
20) Chrysene	23.79	228	838053	7.29	ng	98
21) Indeno(1,2,3-cd)pyrene	26.93	276	959805	7.51	ng	98
23) Benzo(b)fluoranthene	25.02	252	192742	6.91	ng	99
24) Benzo(k)fluoranthene	25.05	252	240277	6.61	ng	97
25) Benzo(a)pyrene	25.39	252	208283	7.54	ng	98
26) Dibenzo(a,h)anthracene	26.95	278	212980	7.43	ng	98
27) Benzo(a,h,i)perylene	27.36	276	813102	7.44	ng	97

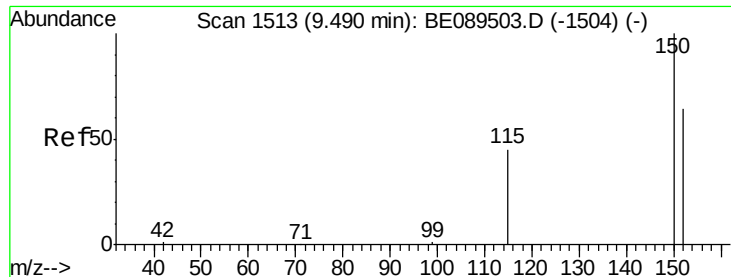
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 9.49 min Scan# 1513

Delta R.T. -0.00 min

Lab File: BE089510.D

Acq: 5 Feb 2015 19:34

Instrument :

BNA_E

ClientSampleId :

PB81495BSD

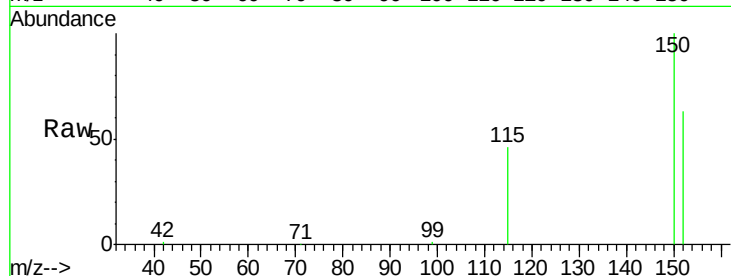
Tot Ion:152 Resp: 30122

Ion Ratio Lower Upper

152 100

150 158.7 125.0 187.6

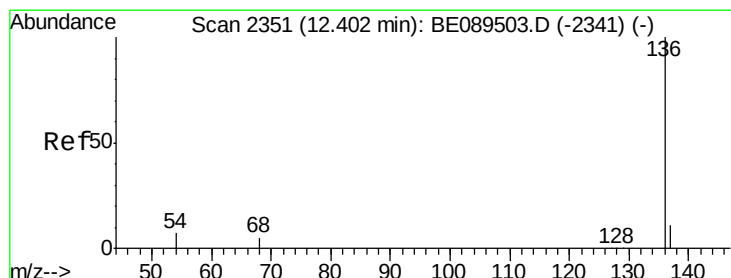
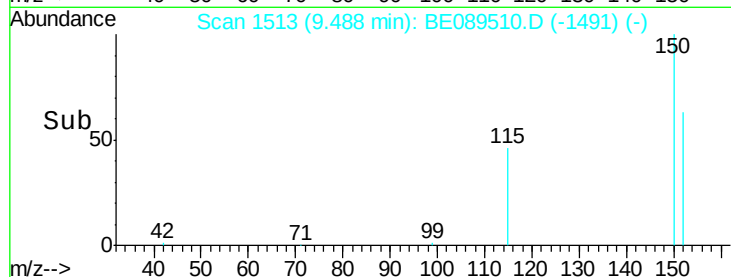
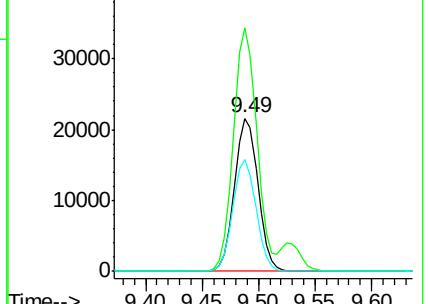
115 72.9 56.6 85.0



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# 2352

Delta R.T. 0.00 min

Lab File: BE089510.D

Acq: 5 Feb 2015 19:34

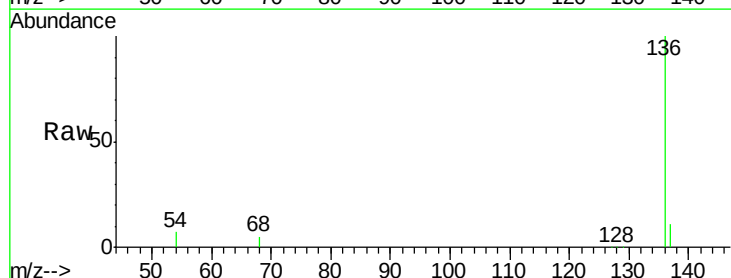
Tgt Ion:136 Resp: 121332

Ion Ratio Lower Upper

136 100

137 10.9 8.6 12.8

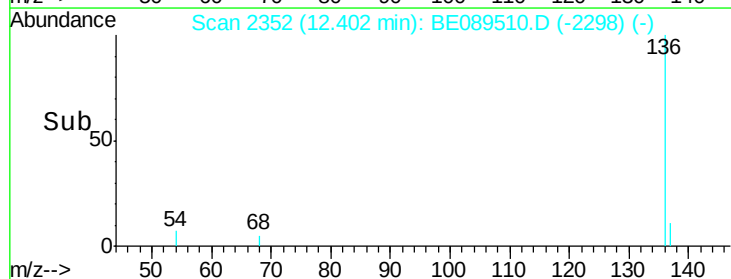
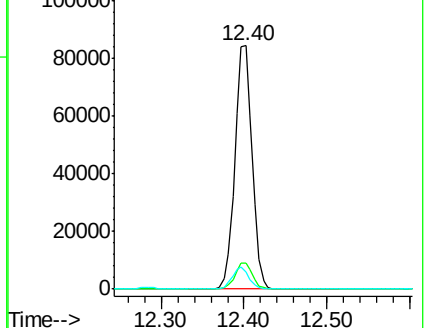
54 7.1 6.0 9.0

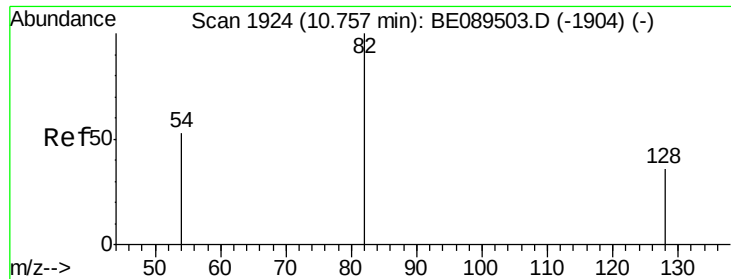


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BE0





#3

Nitrobenzene-d5

Concen: 6.87 ng

RT: 10.76 min Scan# 1925

Delta R.T. 0.00 min

Lab File: BE089510.D

Acq: 5 Feb 2015 19:34

Instrument :

BNA_E

ClientSampleId :

PB81495BSD

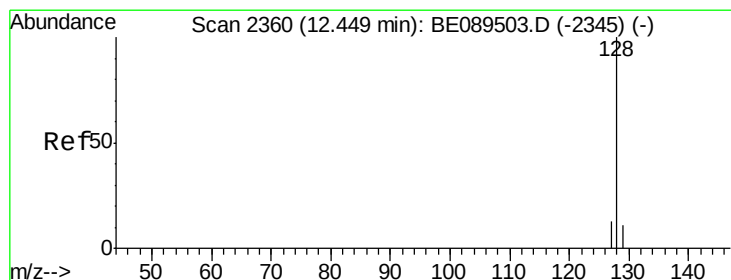
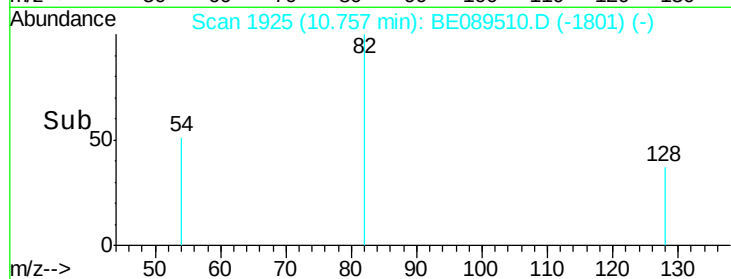
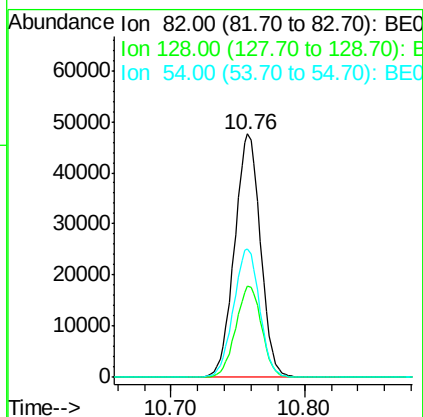
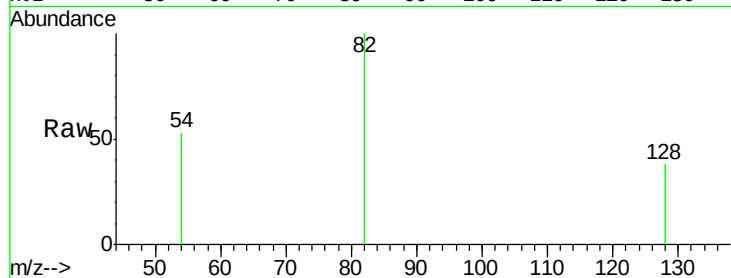
Tot Ion: 82 Resp: 63588

Ion Ratio Lower Upper

82 100

128 37.5 29.3 43.9

54 52.9 42.6 64.0



#4

Naphthalene

Concen: 5.67 ng

RT: 12.44 min Scan# 2360

Delta R.T. -0.00 min

Lab File: BE089510.D

Acq: 5 Feb 2015 19:34

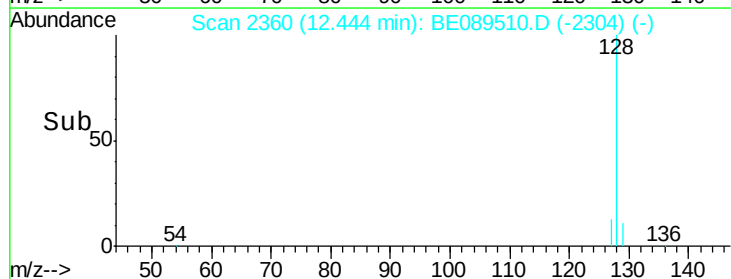
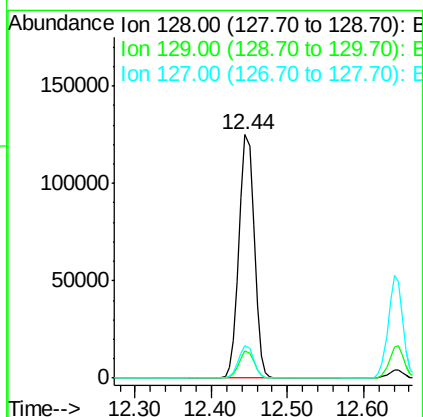
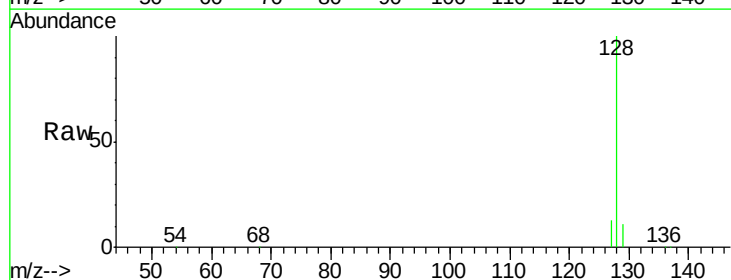
Tgt Ion: 128 Resp: 173222

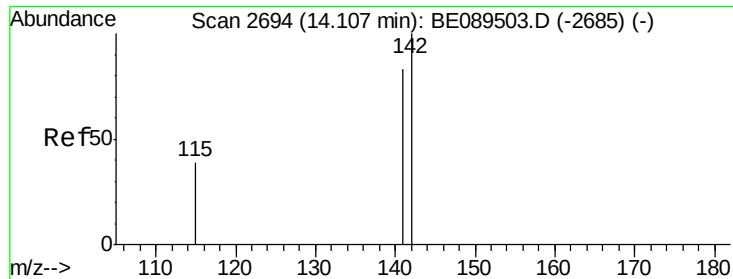
Ion Ratio Lower Upper

128 100

129 11.0 8.8 13.2

127 13.1 10.3 15.5





#5

2-Methylnaphthalene

Concen: 5.58 ng

RT: 14.10 min Scan# 2694

Delta R.T. -0.00 min

Lab File: BE089510.D

Acq: 5 Feb 2015 19:34

Instrument :

BNA_E

ClientSampleId :

PB81495BSD

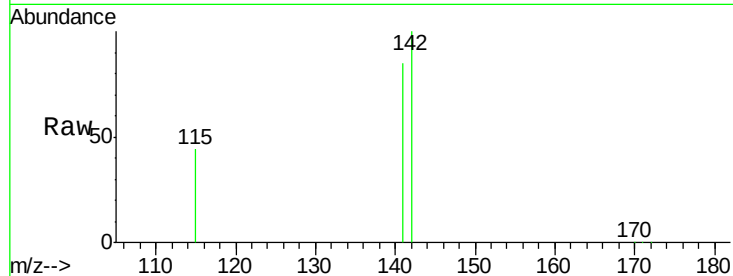
Tot Ion:142 Resp: 111738

Ion Ratio Lower Upper

142 100

141 85.2 66.3 99.5

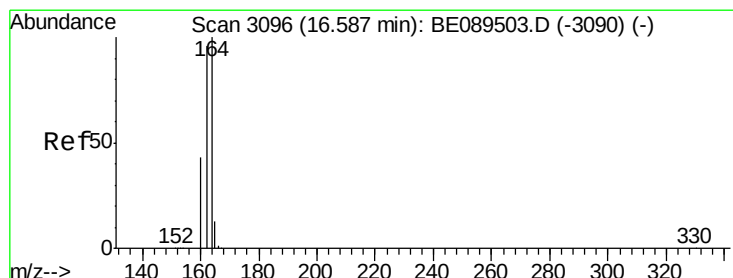
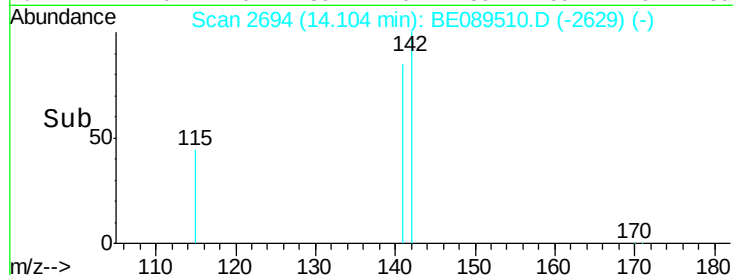
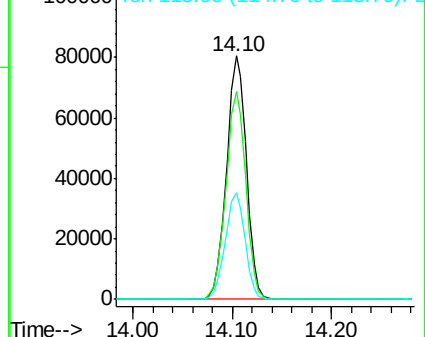
115 43.6 31.1 46.7



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: BE089510.D

Acq: 5 Feb 2015 19:34

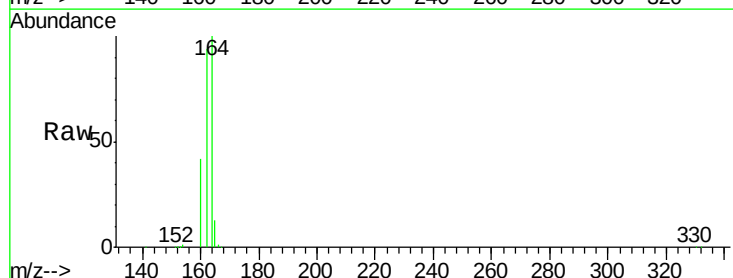
Tgt Ion:164 Resp: 53893

Ion Ratio Lower Upper

164 100

162 93.7 76.6 115.0

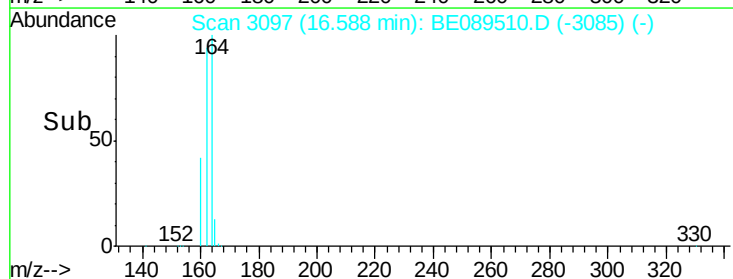
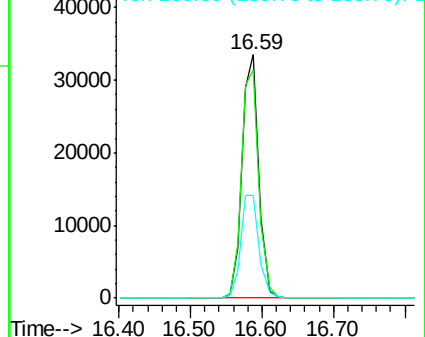
160 42.2 34.6 52.0

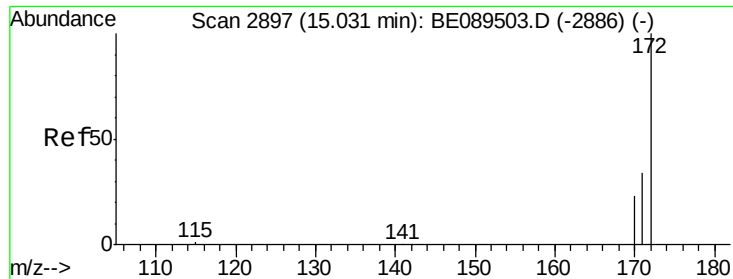


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E





#7

2-Fluorobiphenyl

Concen: 6.44 ng

RT: 15.03 min Scan# 2898

Delta R.T. 0.00 min

Lab File: BE089510.D

Acq: 5 Feb 2015 19:34

Instrument :

BNA_E

ClientSampleId :

PB81495BSD

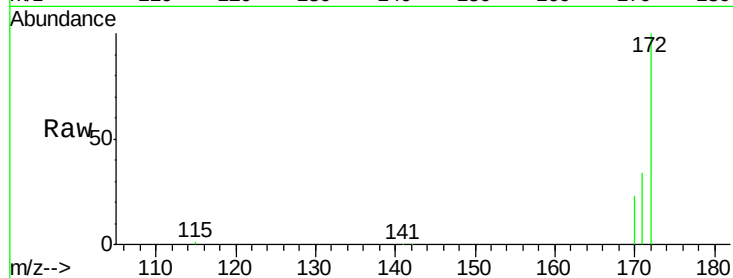
Tot Ion:172 Resp: 109276

Ion Ratio Lower Upper

172 100

171 34.2 27.4 41.0

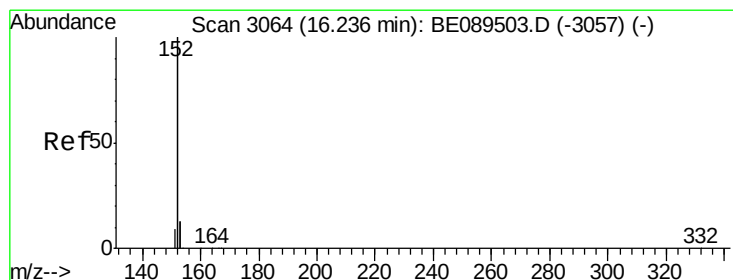
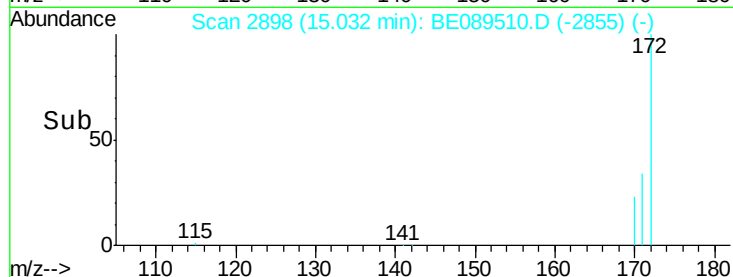
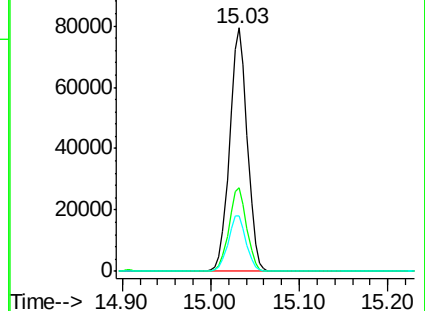
170 22.6 18.4 27.6



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: 6.14 ng

RT: 16.24 min Scan# 3065

Delta R.T. 0.00 min

Lab File: BE089510.D

Acq: 5 Feb 2015 19:34

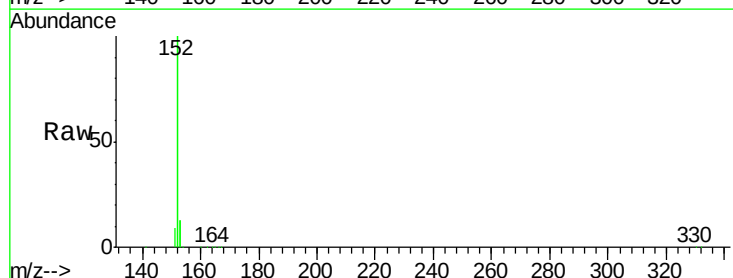
Tgt Ion:152 Resp: 710453

Ion Ratio Lower Upper

152 100

151 4.9 3.9 5.9

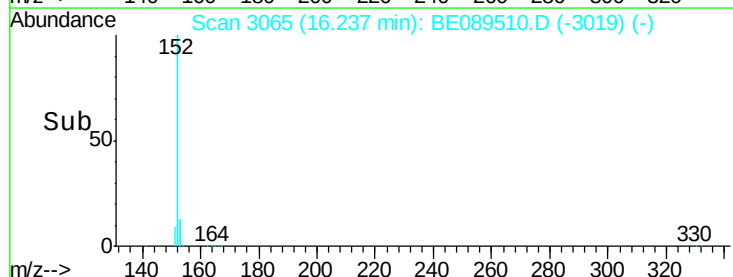
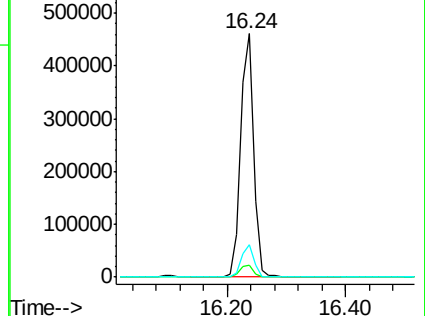
153 12.9 10.4 15.6

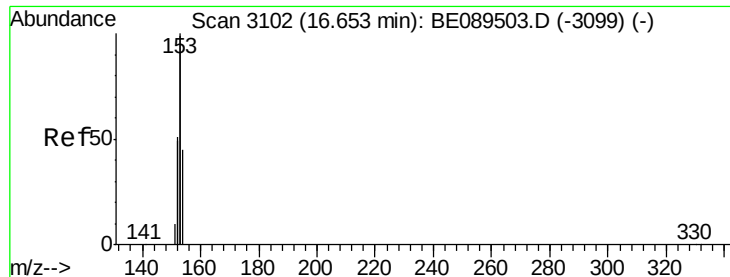


Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E





#9

Acenaphthene

Concen: 5.87 ng

RT: 16.65 min Scan# 3103

Delta R.T. 0.00 min

Lab File: BE089510.D

Acq: 5 Feb 2015 19:34

Instrument :

BNA_E

ClientSampleId :

PB81495BSD

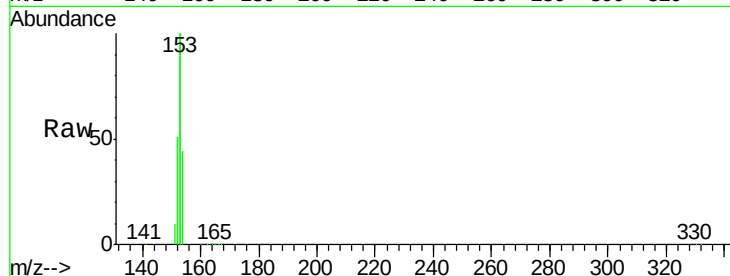
Tot Ion:154 Resp: 104227

Ion Ratio Lower Upper

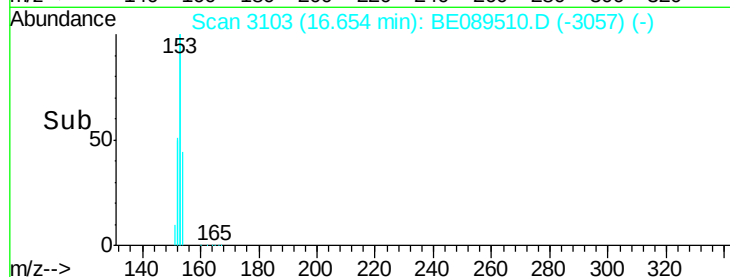
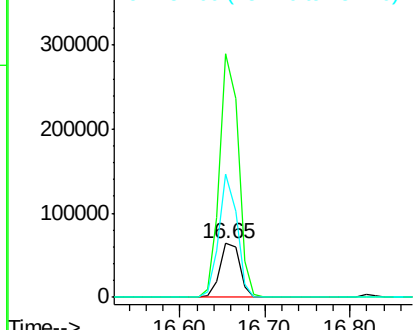
154 100

153 429.0 341.5 512.3

152 207.1 166.6 249.8



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: 6.81 ng

RT: 17.91 min Scan# 3217

Delta R.T. 0.00 min

Lab File: BE089510.D

Acq: 5 Feb 2015 19:34

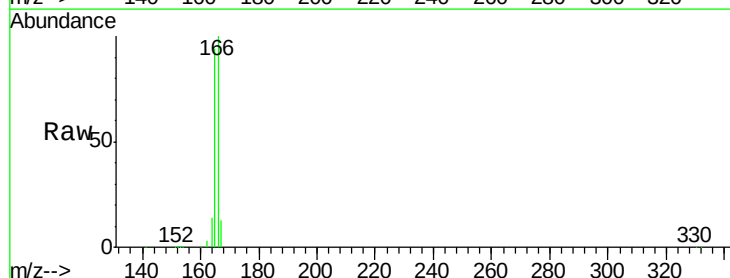
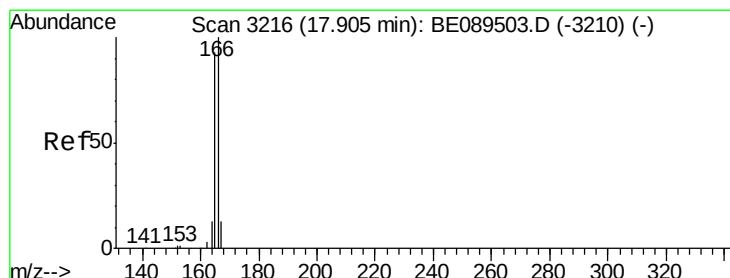
Tgt Ion:166 Resp: 126137

Ion Ratio Lower Upper

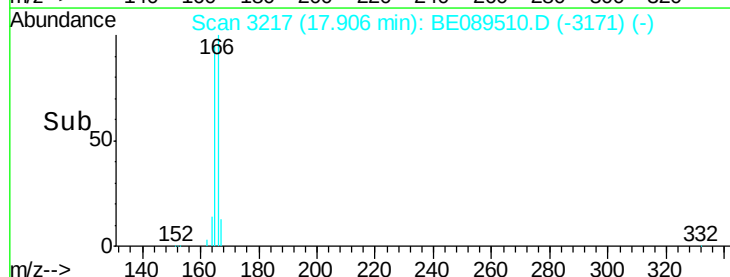
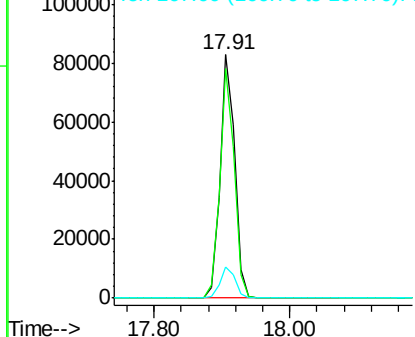
166 100

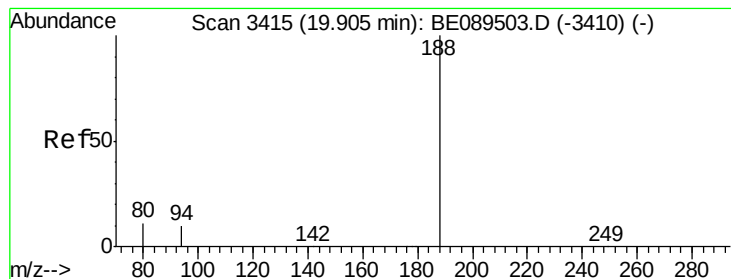
165 93.1 73.6 110.4

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: 19.91 min Scan# 3416

Delta R.T. 0.00 min

Lab File: BE089510.D

Acq: 5 Feb 2015 19:34

Instrument :

BNA_E

ClientSampleId :

PB81495BSD

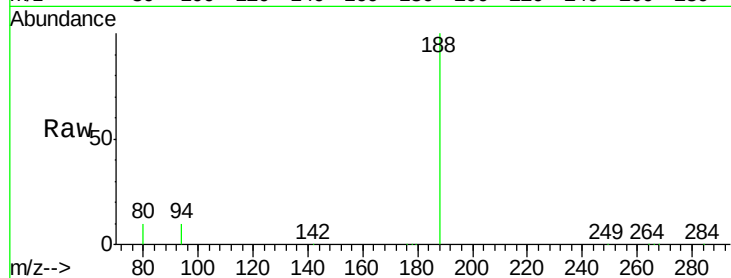
Tot Ion:188 Resp: 103888

Ion Ratio Lower Upper

188 100

94 9.6 8.2 12.4

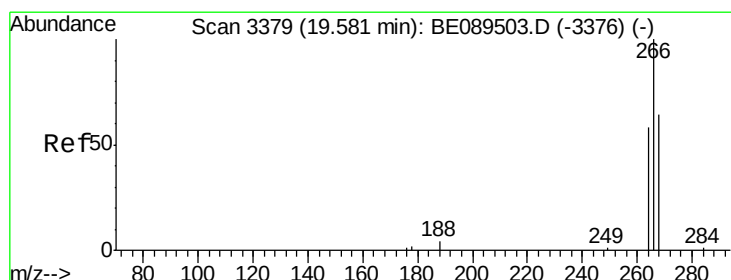
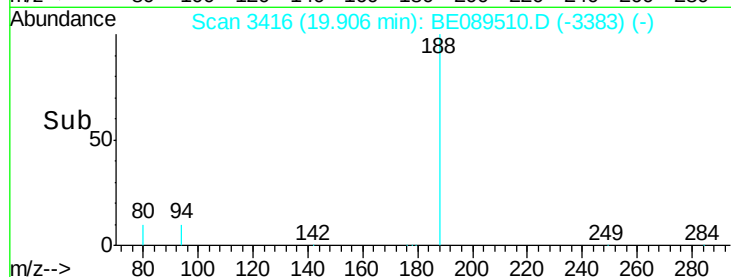
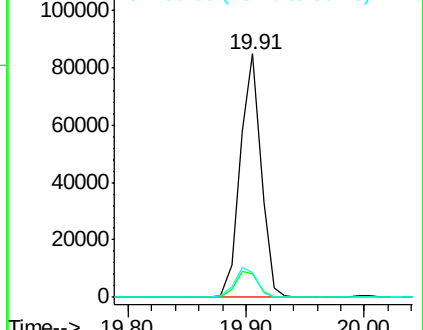
80 9.9 8.7 13.1



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: 0.35 ng

RT: 19.58 min Scan# 3380

Delta R.T. 0.00 min

Lab File: BE089510.D

Acq: 5 Feb 2015 19:34

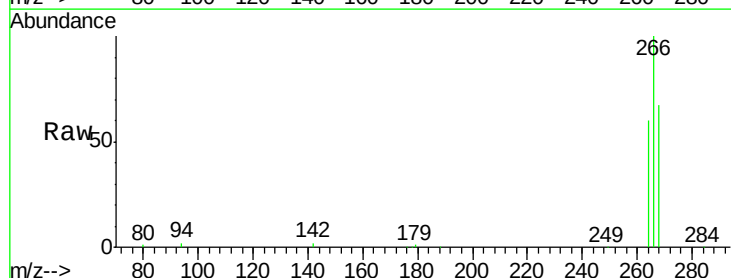
Tgt Ion:266 Resp: 17542

Ion Ratio Lower Upper

266 100

268 66.8 56.7 85.1

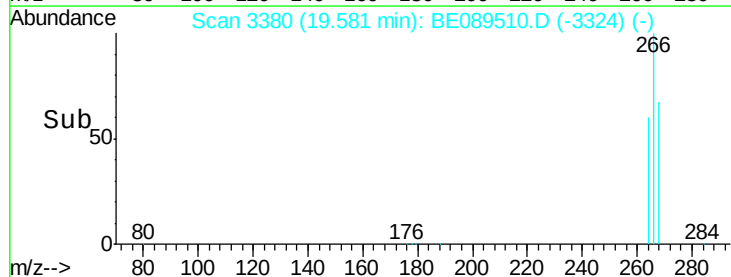
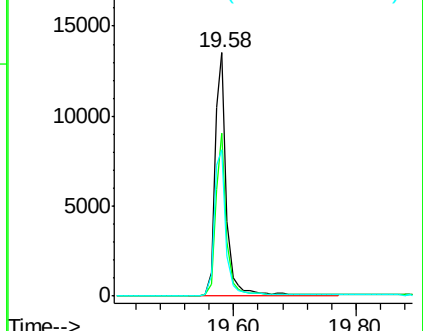
264 60.1 51.9 77.9

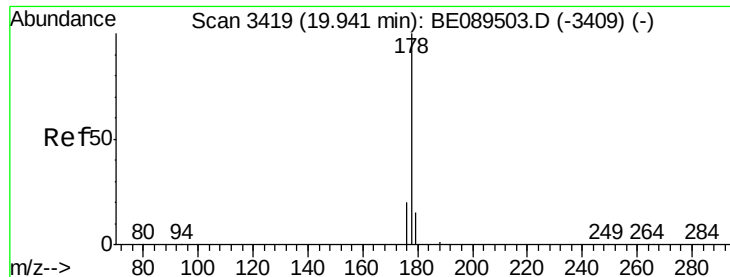


Abundance Ion 265.70 (265.40 to 266.40): E

Ion 268.00 (267.70 to 268.70): E

Ion 264.00 (263.70 to 264.70): E

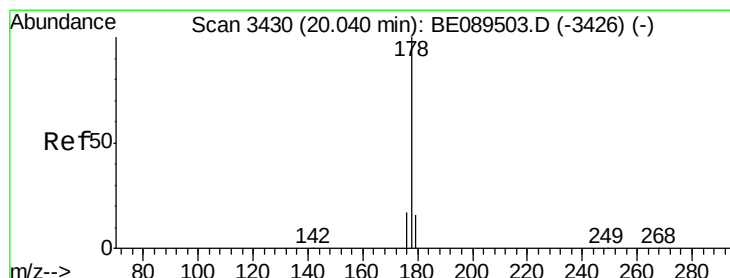
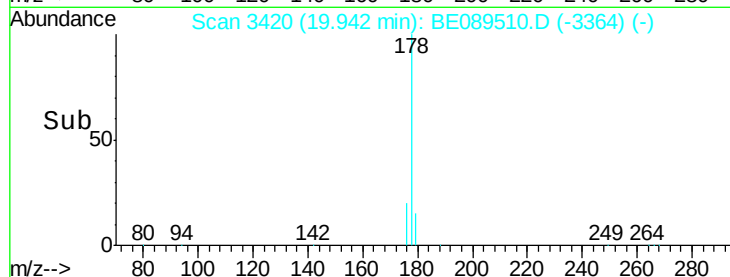
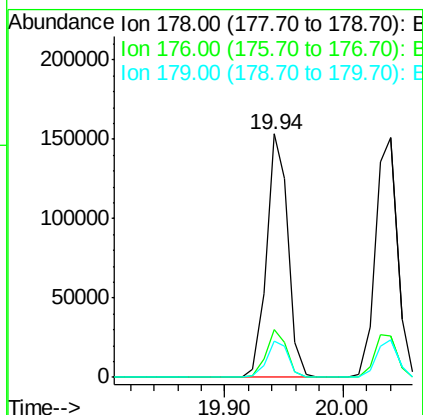
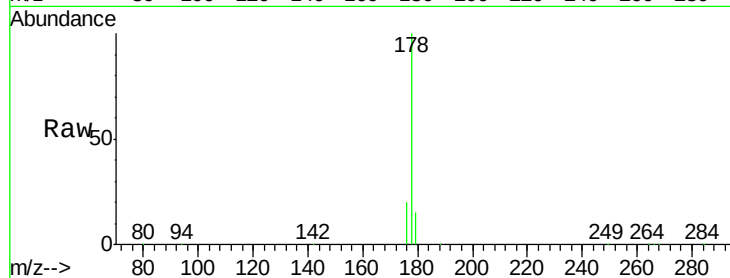




#13
Phenanthrene
Concen: 6.21 ng
RT: 19.94 min Scan# 3420
Delta R.T. 0.00 min
Lab File: BE089510.D
Acq: 5 Feb 2015 19:34

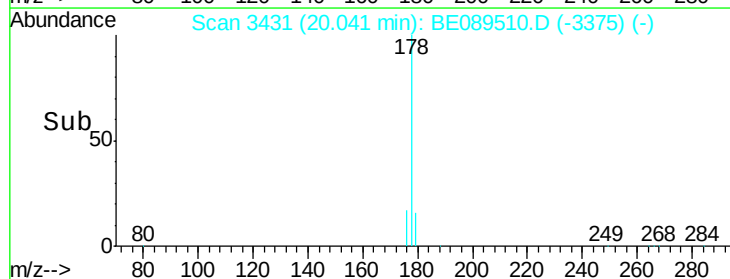
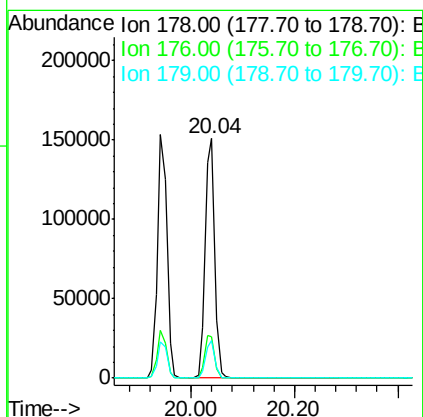
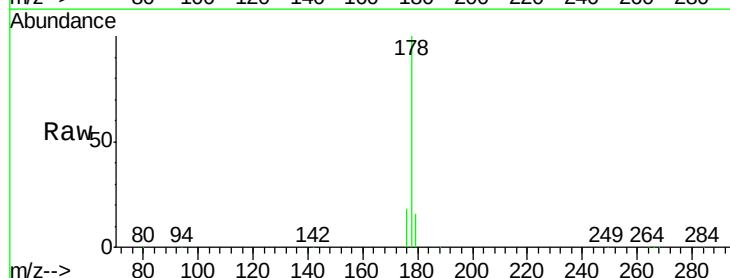
Instrument :
BNA_E
ClientSampleId :
PB81495BSD

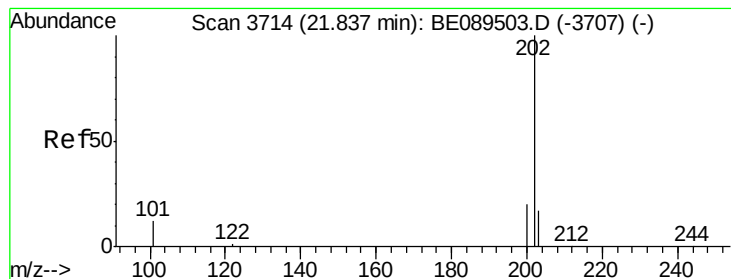
Tot Ion:178 Resp: 195764
Ion Ratio Lower Upper
178 100
176 18.9 15.4 23.0
179 15.1 12.4 18.6



#14
Anthracene
Concen: 7.29 ng
RT: 20.04 min Scan# 3431
Delta R.T. 0.00 min
Lab File: BE089510.D
Acq: 5 Feb 2015 19:34

Tgt Ion:178 Resp: 197220
Ion Ratio Lower Upper
178 100
176 18.5 14.6 22.0
179 15.0 12.1 18.1





#15

Fluoranthene

Concen: 7.22 ng

RT: 21.83 min Scan# 3714

Delta R.T. -0.00 min

Lab File: BE089510.D

Acq: 5 Feb 2015 19:34

Instrument :

BNA_E

ClientSampleId :

PB81495BSD

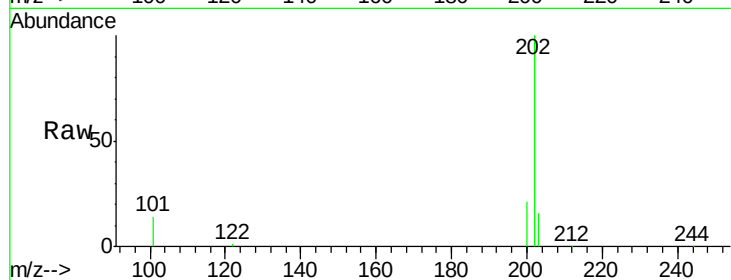
Tot Ion:202 Resp: 202850

Ion Ratio Lower Upper

202 100

101 13.3 11.3 16.9

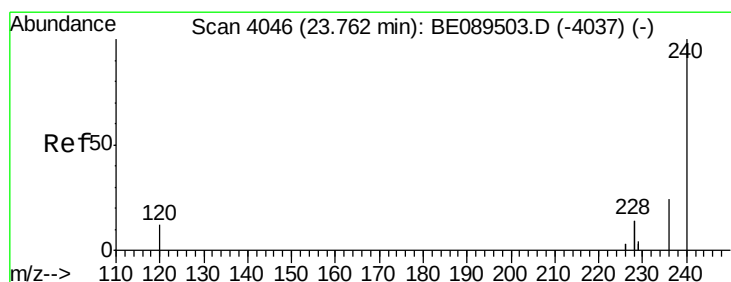
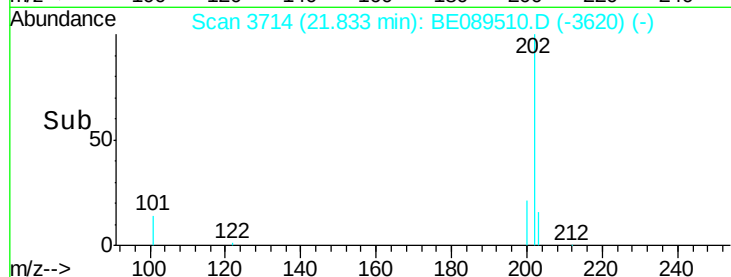
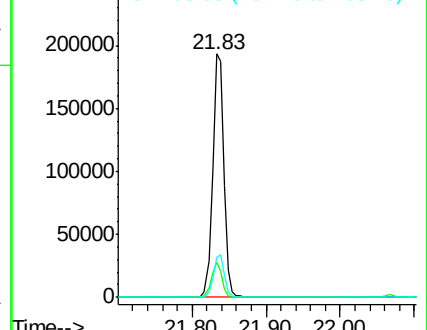
203 17.1 13.8 20.6



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E



#16

Chrysene-d12

Concen: 5.00 ng

RT: 23.77 min Scan# 4048

Delta R.T. 0.01 min

Lab File: BE089510.D

Acq: 5 Feb 2015 19:34

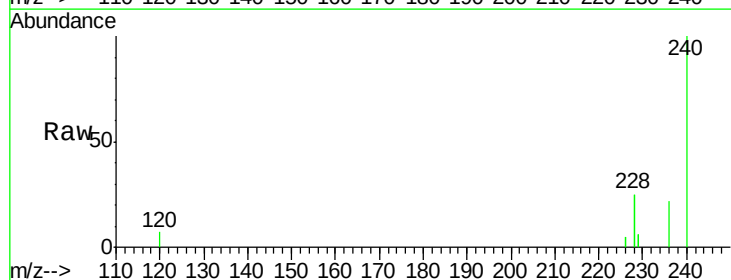
Tgt Ion:240 Resp: 116084

Ion Ratio Lower Upper

240 100

120 6.6 9.6 14.4#

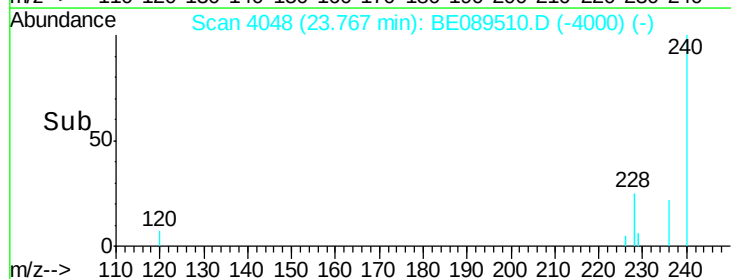
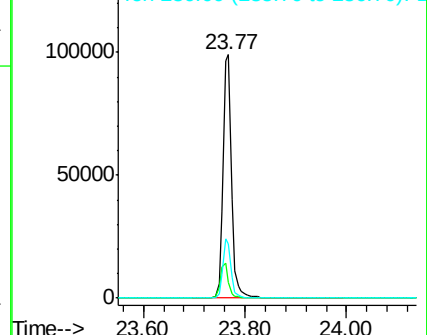
236 22.4 19.4 29.2

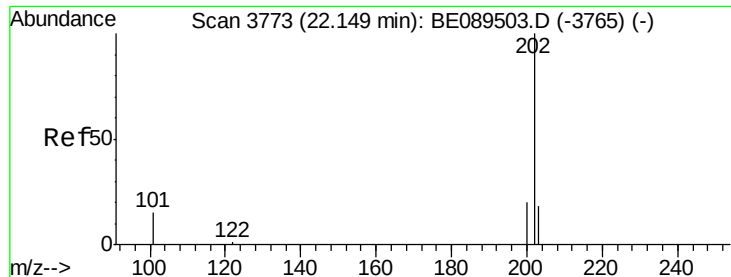


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#17

Pvrene

Concen: 6.52 ng

RT: 22.15 min Scan# 3774

Delta R.T. 0.00 min

Lab File: BE089510.D

Acq: 5 Feb 2015 19:34

Instrument :

BNA_E

ClientSampled :

PB81495BSD

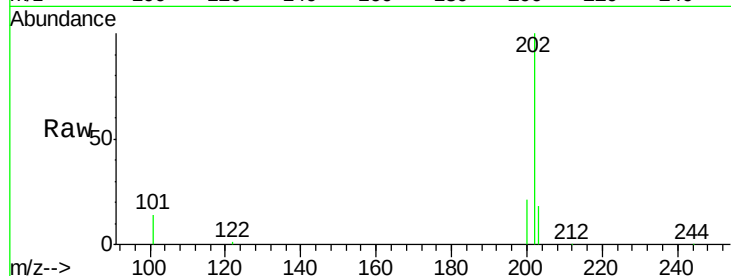
Tot Ion:202 Resp: 216333

Ion Ratio Lower Upper

202 100

200 21.1 16.5 24.7

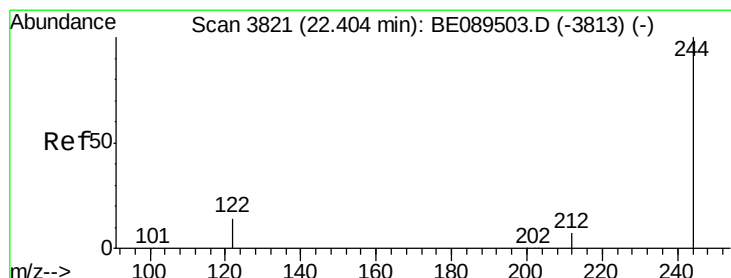
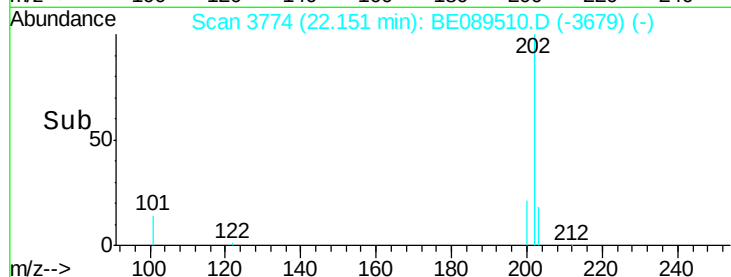
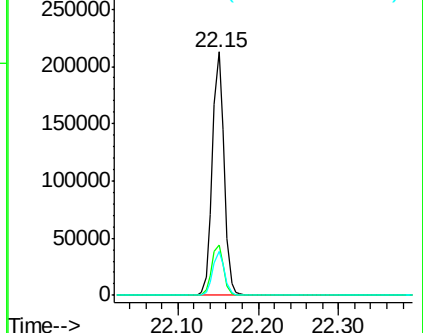
203 17.9 14.0 21.0



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: 6.90 ng

RT: 22.41 min Scan# 3822

Delta R.T. 0.00 min

Lab File: BE089510.D

Acq: 5 Feb 2015 19:34

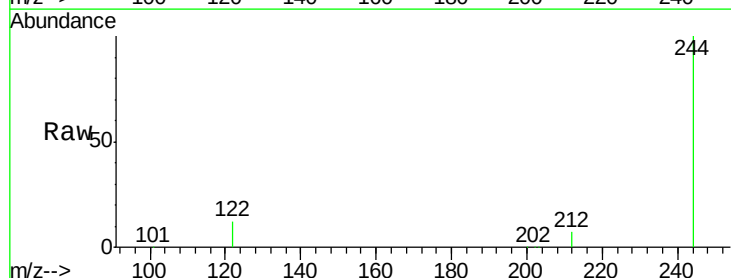
Tgt Ion:244 Resp: 139350

Ion Ratio Lower Upper

244 100

212 7.1 5.5 8.3

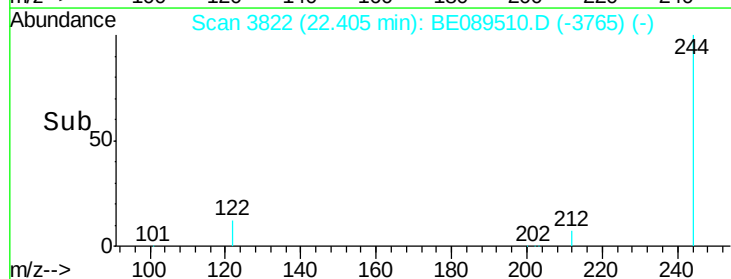
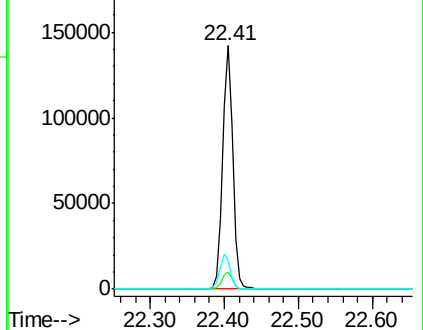
122 11.8 11.1 16.7

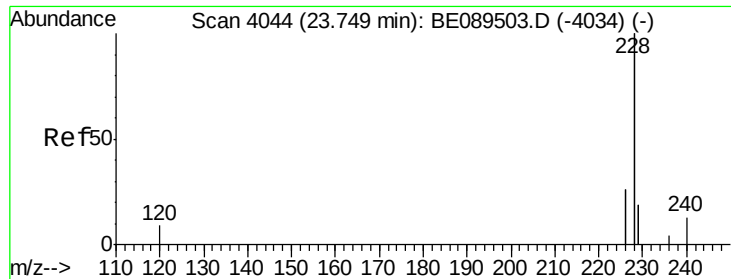


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#19

Benzo(a)anthracene

Concen: 7.11 ng

RT: 23.75 min Scan# 4045

Delta R.T. 0.00 min

Lab File: BE089510.D

Acq: 5 Feb 2015 19:34

Instrument :

BNA_E

ClientSampleId :

PB81495BSD

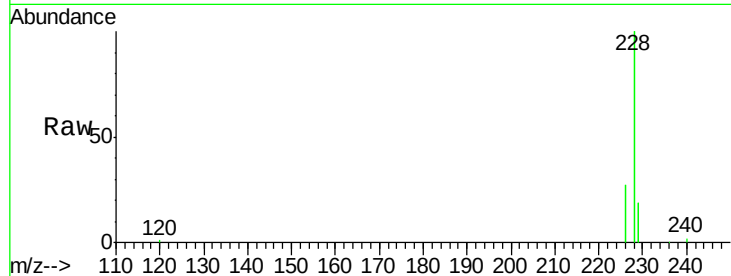
Tot Ion:228 Resp: 830740

Ion Ratio Lower Upper

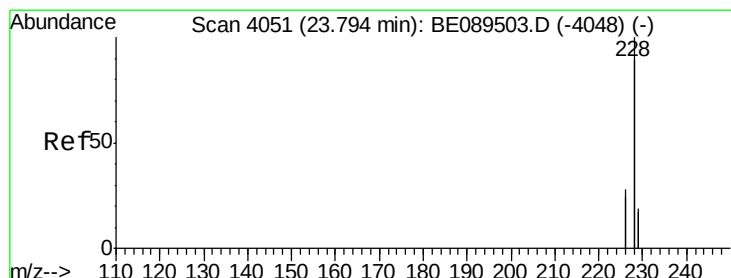
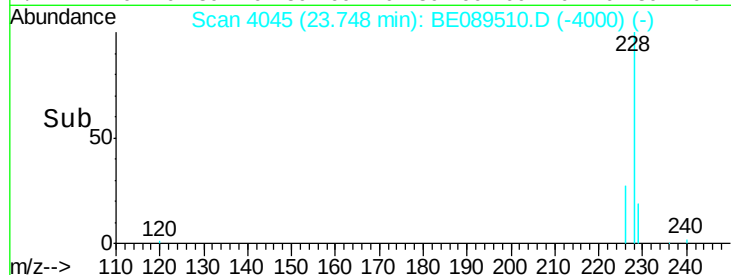
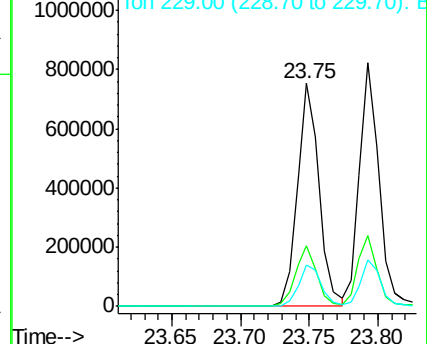
228 100

226 27.0 21.0 31.6

229 18.8 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: 7.29 ng

RT: 23.79 min Scan# 4052

Delta R.T. -0.00 min

Lab File: BE089510.D

Acq: 5 Feb 2015 19:34

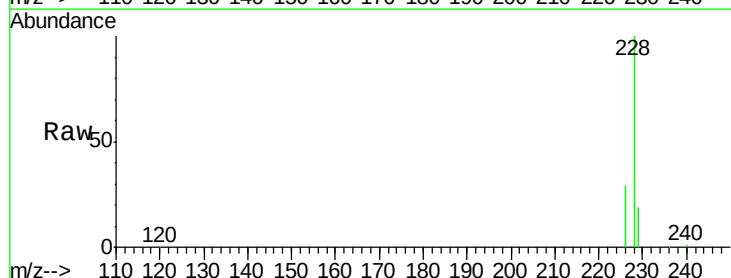
Tgt Ion:228 Resp: 838053

Ion Ratio Lower Upper

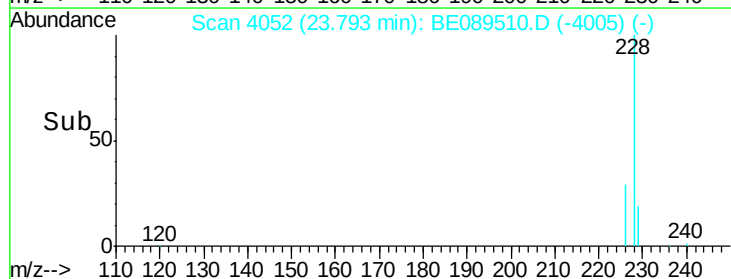
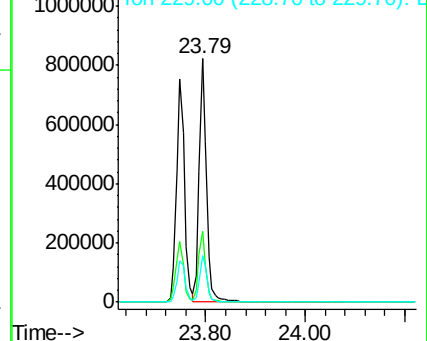
228 100

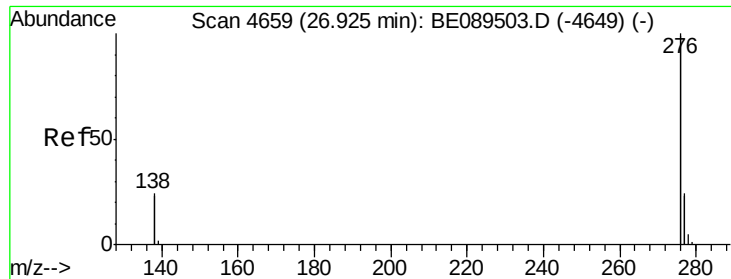
226 29.2 22.3 33.5

229 18.9 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

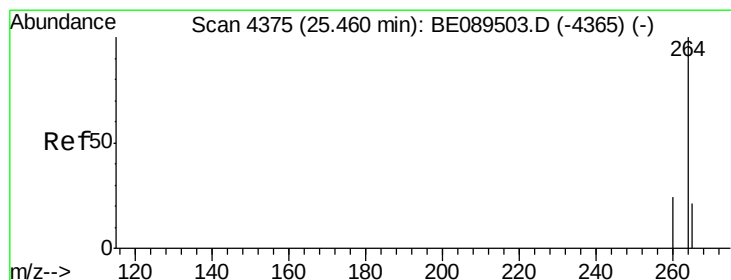
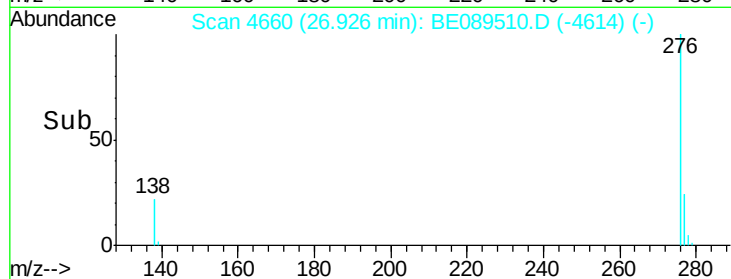
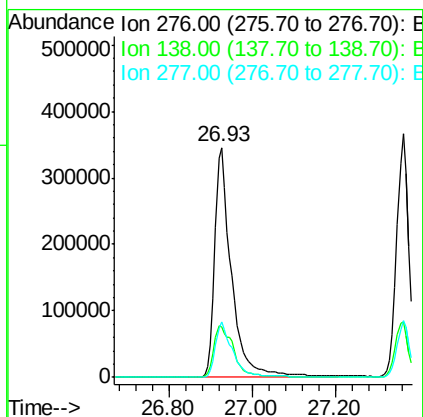
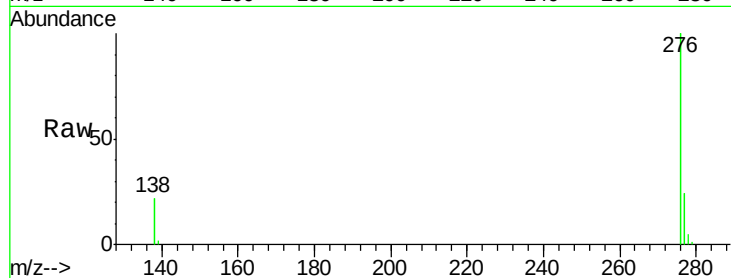




#21
 Indeno(1,2,3-cd)pyrene
 Concen: 7.51 ng
 RT: 26.93 min Scan# 4660
 Delta R.T. 0.00 min
 Lab File: BE089510.D
 Acq: 5 Feb 2015 19:34

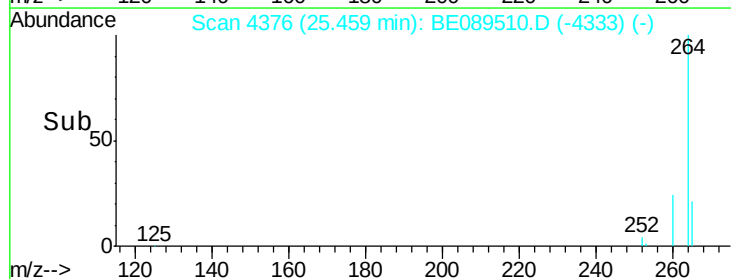
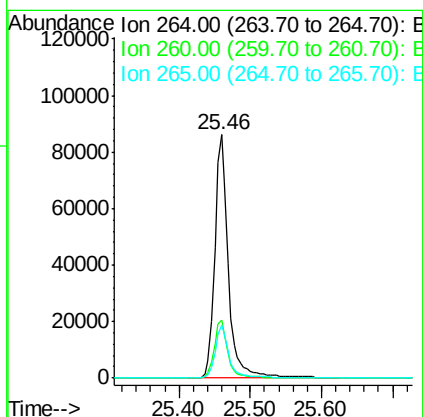
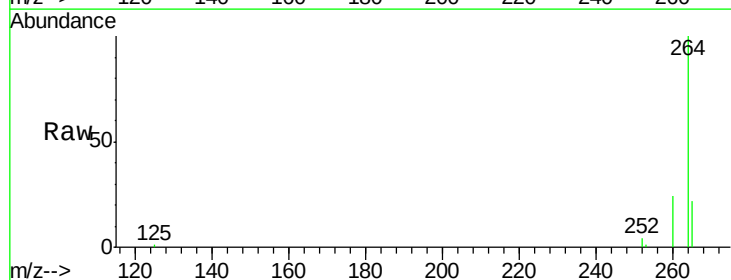
Instrument :
 BNA_E
 ClientSampleId :
 PB81495BSD

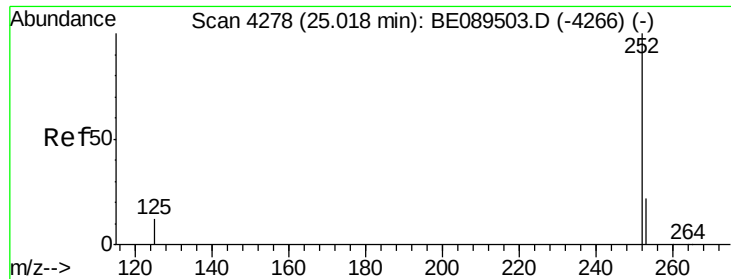
Tot Ion:276 Resp: 959805
 Ion Ratio Lower Upper
 276 100
 138 27.3 23.2 34.8
 277 25.2 19.8 29.6



#22
 Perylene-d12
 Concen: 5.00 ng
 RT: 25.46 min Scan# 4376
 Delta R.T. -0.00 min
 Lab File: BE089510.D
 Acq: 5 Feb 2015 19:34

Tgt Ion:264 Resp: 114093
 Ion Ratio Lower Upper
 264 100
 260 24.0 19.0 28.6
 265 21.6 17.0 25.6

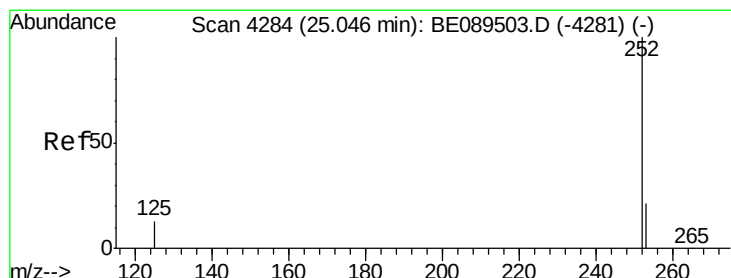
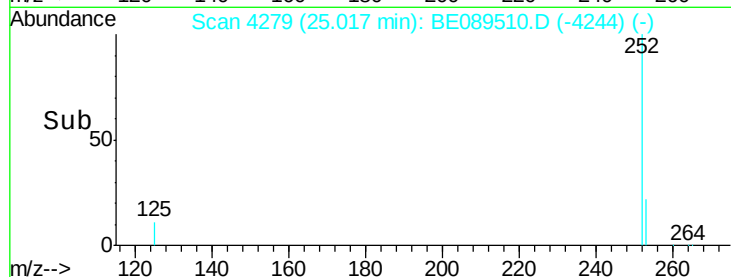
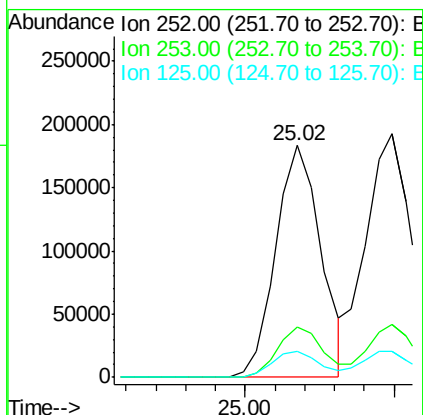
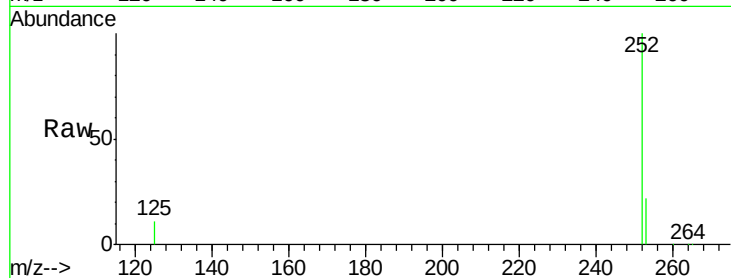




#23
Benzo(b)fluoranthene
Concen: 6.91 ng
RT: 25.02 min Scan# 4279
Delta R.T. -0.00 min
Lab File: BE089510.D
Acq: 5 Feb 2015 19:34

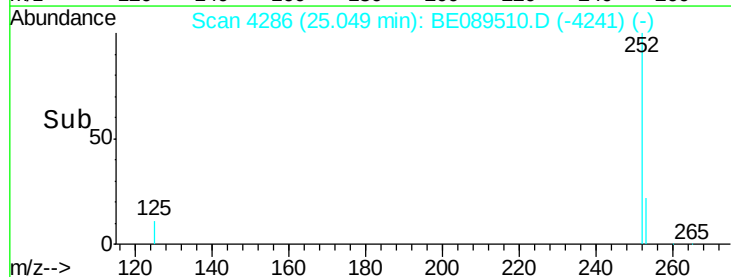
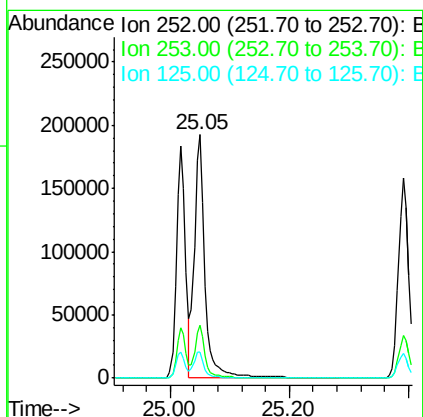
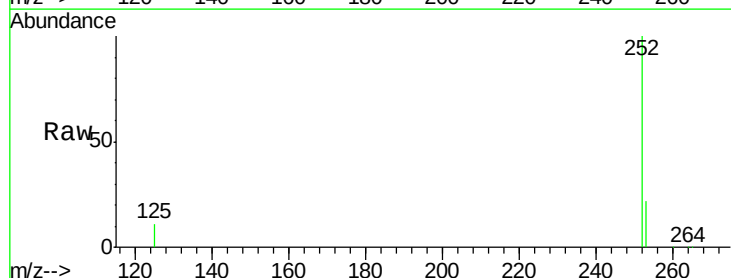
Instrument :
BNA_E
ClientSampleId :
PB81495BSD

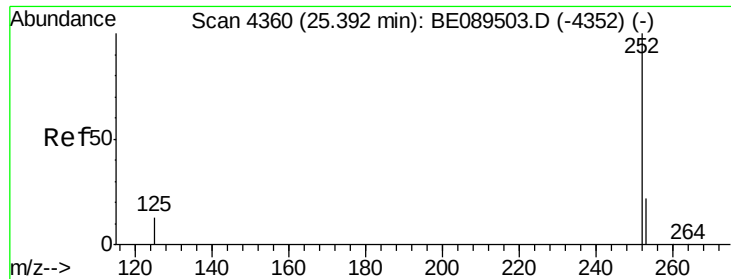
Tot Ion:252 Resp: 192742
Ion Ratio Lower Upper
252 100
253 21.5 17.4 26.0
125 11.2 9.6 14.4



#24
Benzo(k)fluoranthene
Concen: 6.61 ng
RT: 25.05 min Scan# 4286
Delta R.T. 0.00 min
Lab File: BE089510.D
Acq: 5 Feb 2015 19:34

Tgt Ion:252 Resp: 240277
Ion Ratio Lower Upper
252 100
253 21.8 17.0 25.6
125 10.7 10.2 15.4





#25

Benzo(a)pyrene

Concen: 7.54 ng

RT: 25.39 min Scan# 4361

Delta R.T. -0.00 min

Lab File: BE089510.D

Acq: 5 Feb 2015 19:34

Instrument :

BNA_E

ClientSampleId :

PB81495BSD

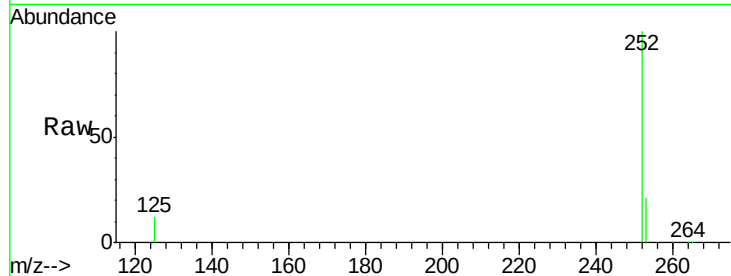
Tot Ion:252 Resp: 208283

Ion Ratio Lower Upper

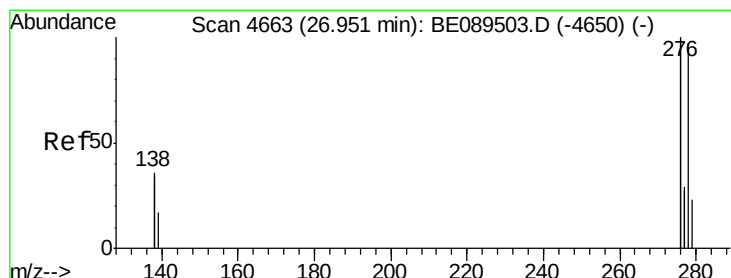
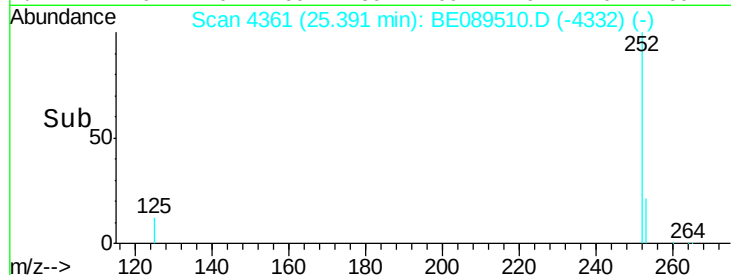
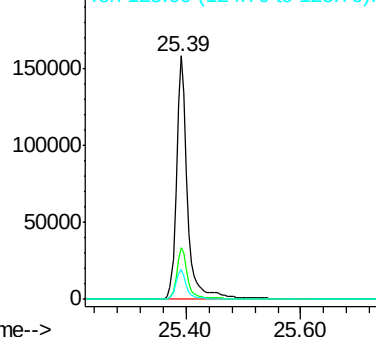
252 100

253 21.5 17.8 26.6

125 12.3 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: 7.43 ng

RT: 26.95 min Scan# 4664

Delta R.T. 0.00 min

Lab File: BE089510.D

Acq: 5 Feb 2015 19:34

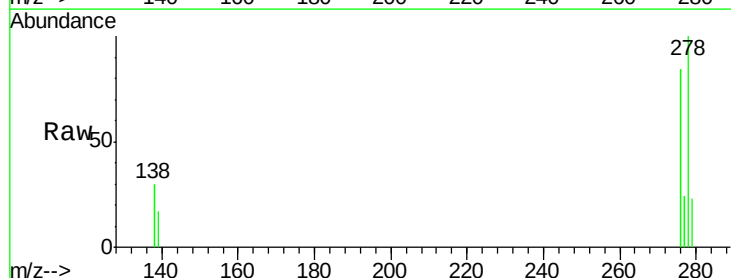
Tgt Ion:278 Resp: 212980

Ion Ratio Lower Upper

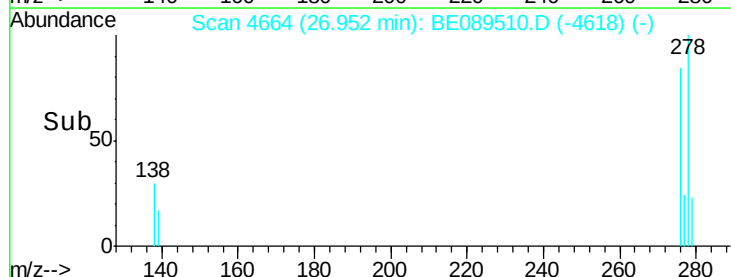
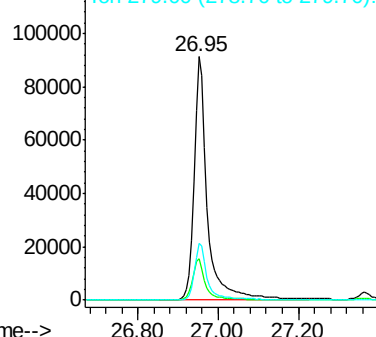
278 100

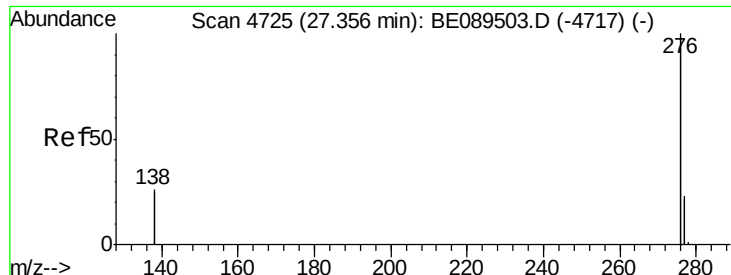
139 17.1 14.6 22.0

279 23.4 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

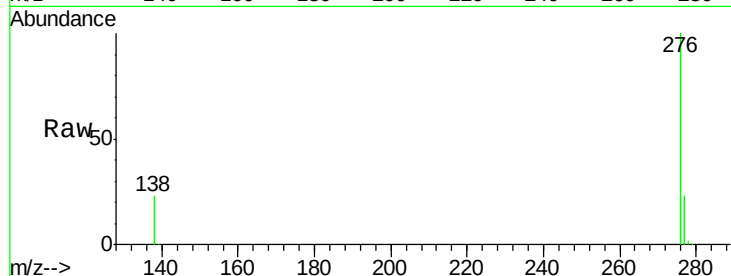




#27
 Benzo(a,h,i)perylene
 Concen: 7.44 ng
 RT: 27.36 min Scan# 4727
 Delta R.T. 0.01 min
 Lab File: BE089510.D
 Acq: 5 Feb 2015 19:34

Instrument :
 BNA_E
 ClientSampleId :
 PB81495BSD

Tot Ion: 276 Resp: 813102
 Ion Ratio Lower Upper
 276 100
 277 23.3 18.6 28.0
 138 22.8 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

