

Data Path : Z:\HPCHEM1\BNA E\DATA\BE020515\
 Data File : BE089513.D
 Acq On : 5 Feb 2015 21:30
 Operator : TP/IZ
 Sample : PB81591BS
 Misc :
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 PB81591BS

Quant Time: Feb 06 04:12:21 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

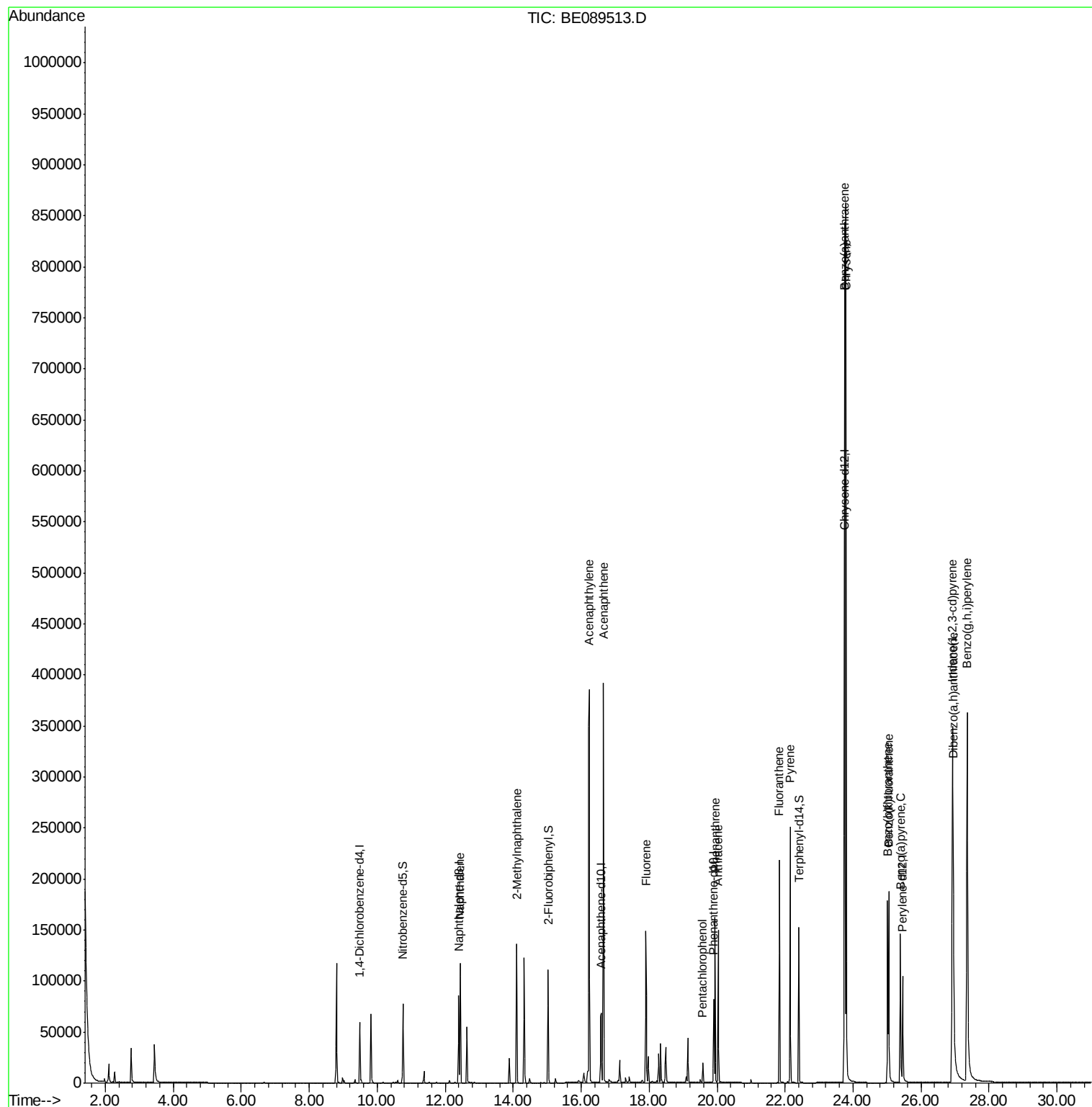
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	9.49	152	24116	5.00	ng	0.00
2) Naphthalene-d8	12.40	136	97889	5.00	ng	0.00
6) Acenaphthene-d10	16.59	164	43971	5.00	ng	0.00
11) Phenanthrene-d10	19.90	188	84532	5.00	ng	0.00
16) Chrysene-d12	23.76	240	93979	5.00	ng	0.00
22) Perylene-d12	25.46	264	89956	5.00	ng	0.00
System Monitoring Compounds						
3) Nitrobenzene-d5	10.76	82	53912	7.22	ng	0.00
7) 2-Fluorobiphenyl	15.03	172	96154	6.94	ng	0.00
18) Terphenyl-d14	22.40	244	125751	7.69	ng	0.00
Target Compounds						Ovalue
4) Naphthalene	12.44	128	127655	5.18	ng	99
5) 2-Methylnaphthalene	14.10	142	81744	5.06	ng	96
8) Acenaphthylene	16.24	152	525899	5.57	ng	100
9) Acenaphthene	16.65	154	76930	5.31	ng	99
10) Fluorene	17.91	166	94899	6.11	ng	99
12) Pentachlorophenol	19.58	266	10938	0.27	ng	95
13) Phenanthrene	19.94	178	147399	5.74	ng	100
14) Anthracene	20.04	178	148222	6.55	ng	100
15) Fluoranthene	21.83	202	152041	6.42	ng	99
17) Pyrene	22.15	202	165004	6.14	ng	99
19) Benzo(a)anthracene	23.75	228	618158	6.35	ng	98
20) Chrysene	23.79	228	640389	6.74	ng	99
21) Indeno(1,2,3-cd)pyrene	26.92	276	675036	6.08	ng	98
23) Benzo(b)fluoranthene	25.02	252	140676	6.23	ng	99
24) Benzo(k)fluoranthene	25.05	252	178367	6.22	ng	97
25) Benzo(a)pyrene	25.39	252	142857	6.29	ng	99
26) Dibenzo(a,h)anthracene	26.95	278	149773	6.38	ng	97
27) Benzo(a,h,i)perylene	27.36	276	572421	6.40	ng	97

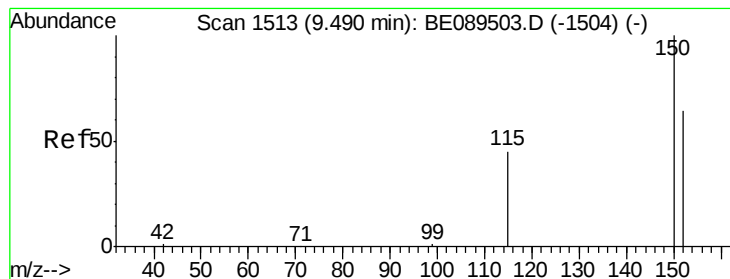
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: BE089513.D

Acq: 5 Feb 2015 21:30

Instrument :

BNA_E

ClientSampleId :

PB81591BS

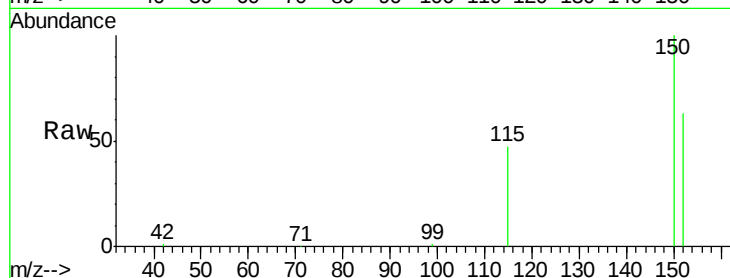
Tot Ion:152 Resp: 24116

Ion Ratio Lower Upper

152 100

150 157.8 125.0 187.6

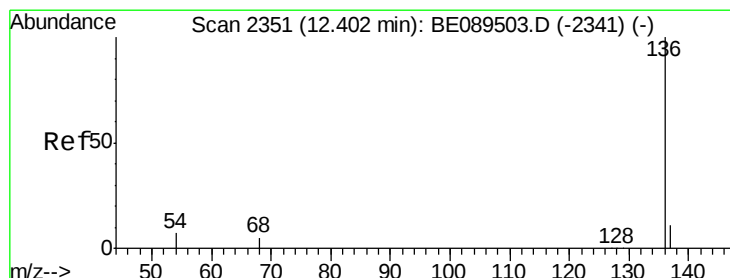
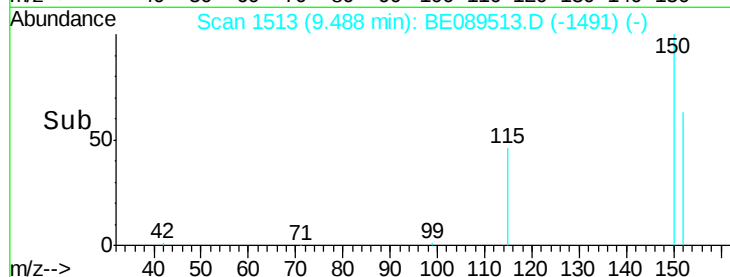
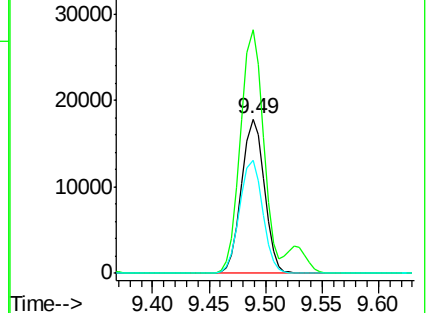
115 73.6 56.6 85.0



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# 2350

Delta R.T. -0.00 min

Lab File: BE089513.D

Acq: 5 Feb 2015 21:30

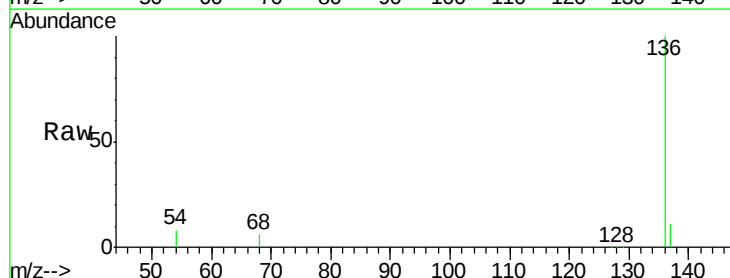
Tgt Ion:136 Resp: 97889

Ion Ratio Lower Upper

136 100

137 10.8 8.6 12.8

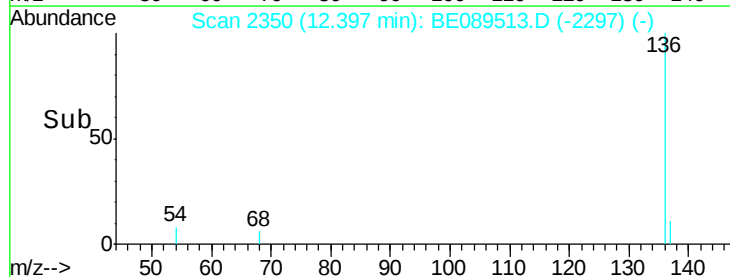
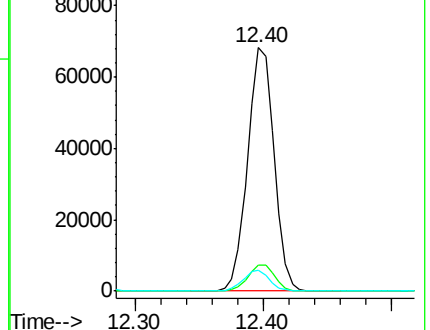
54 8.5 6.0 9.0

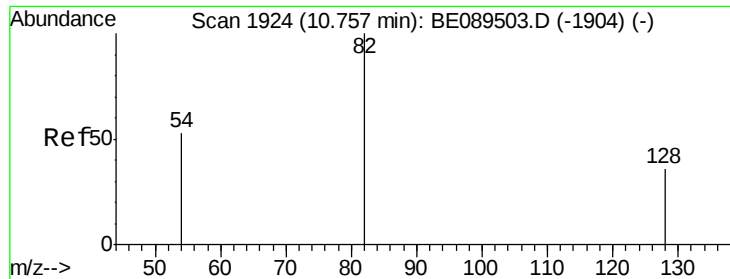


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BE0





#3

Nitrobenzene-d5

Concen: 7.22 ng

RT: 10.76 min Scan# 1924

Delta R.T. 0.00 min

Lab File: BE089513.D

Acq: 5 Feb 2015 21:30

Instrument :

BNA_E

ClientSampleId :

PB81591BS

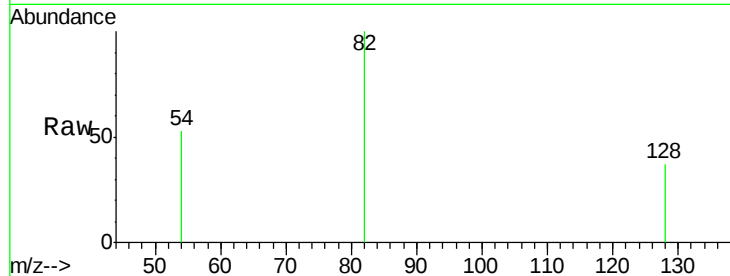
Tot Ion: 82 Resp: 53912

Ion Ratio Lower Upper

82 100

128 36.8 29.3 43.9

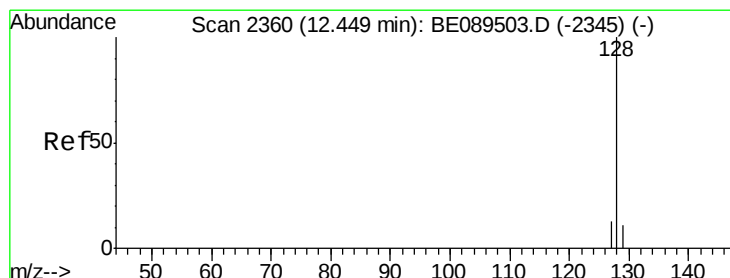
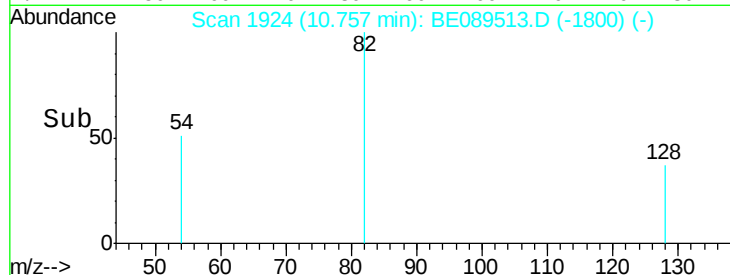
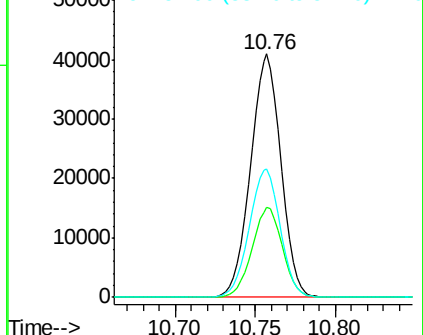
54 52.8 42.6 64.0



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: 5.18 ng

RT: 12.44 min Scan# 2359

Delta R.T. -0.00 min

Lab File: BE089513.D

Acq: 5 Feb 2015 21:30

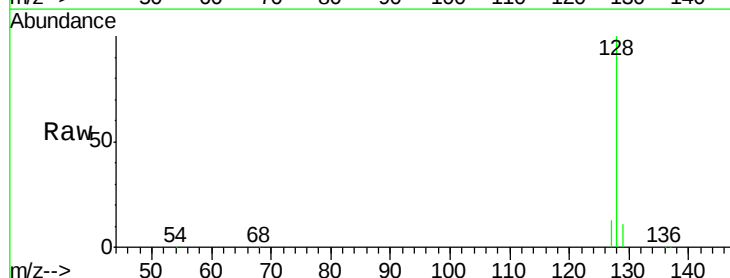
Tgt Ion: 128 Resp: 127655

Ion Ratio Lower Upper

128 100

129 10.6 8.8 13.2

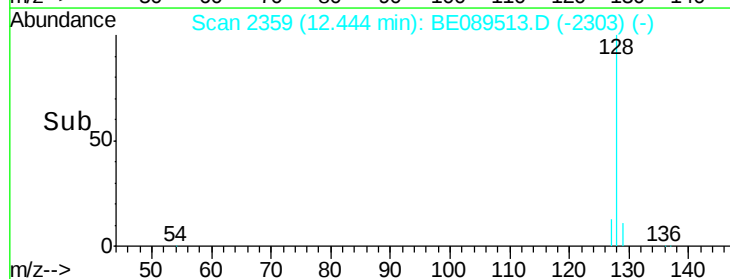
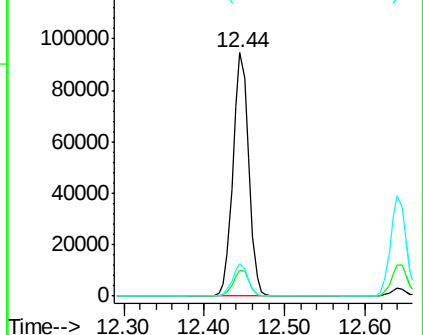
127 13.2 10.3 15.5



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: 5.06 ng

RT: 14.10 min Scan# 2693

Delta R.T. -0.00 min

Lab File: BE089513.D

Acq: 5 Feb 2015 21:30

Instrument :

BNA_E

ClientSampleId :

PB81591BS

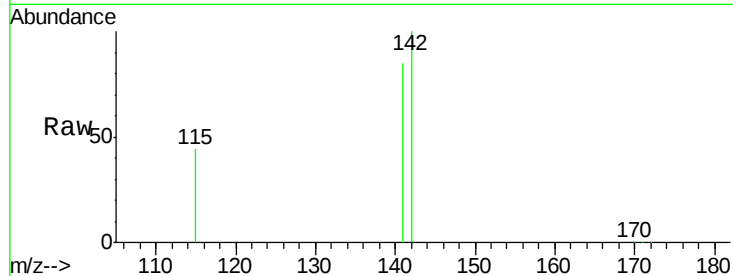
Tot Ion:142 Resp: 81744

Ion Ratio Lower Upper

142 100

141 85.3 66.3 99.5

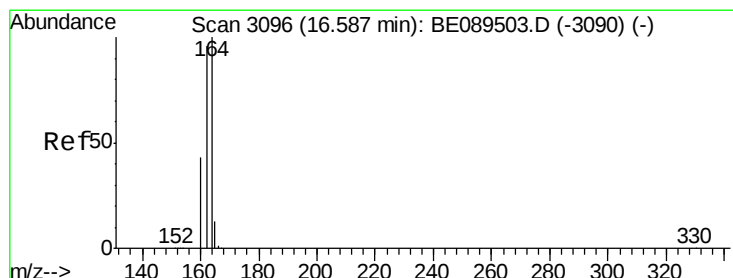
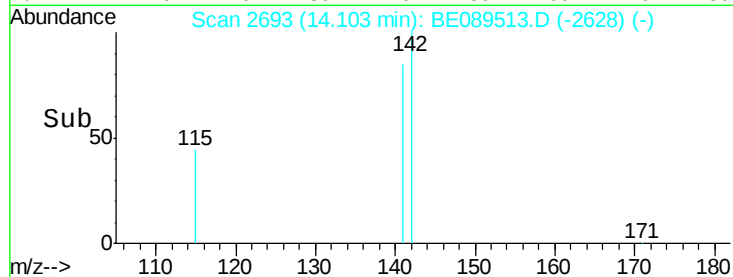
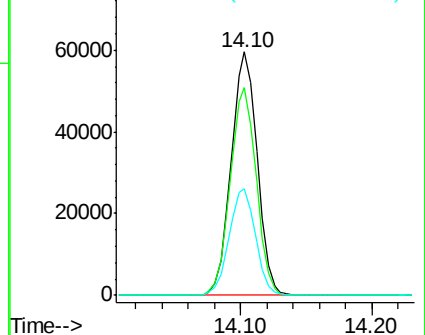
115 43.7 31.1 46.7



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# 3096

Delta R.T. 0.00 min

Lab File: BE089513.D

Acq: 5 Feb 2015 21:30

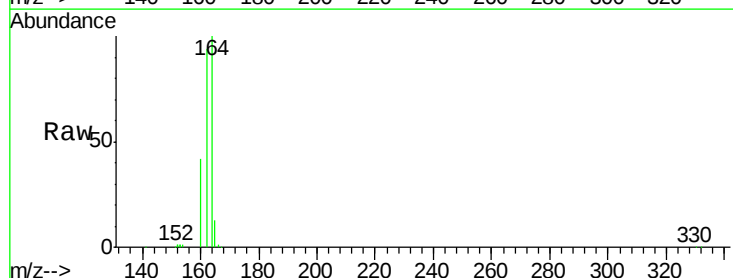
Tgt Ion:164 Resp: 43971

Ion Ratio Lower Upper

164 100

162 94.1 76.6 115.0

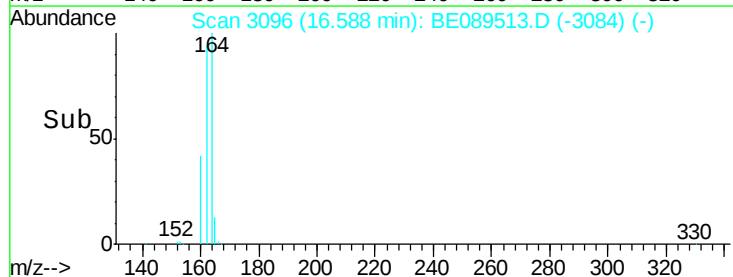
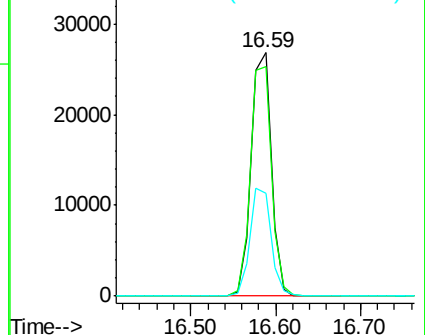
160 42.4 34.6 52.0



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: 6.94 ng

RT: 15.03 min Scan# 2897

Delta R.T. 0.00 min

Lab File: BE089513.D

Acq: 5 Feb 2015 21:30

Instrument :

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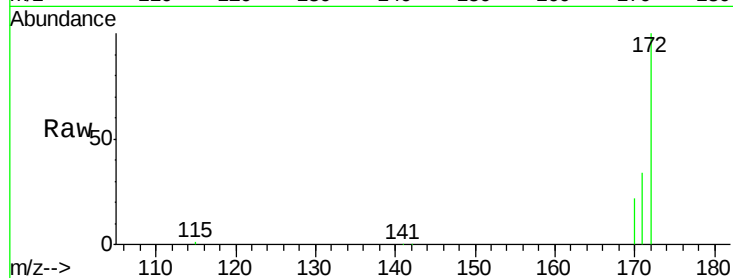
Tot Ion:172 Resp: 96154

Ion Ratio Lower Upper

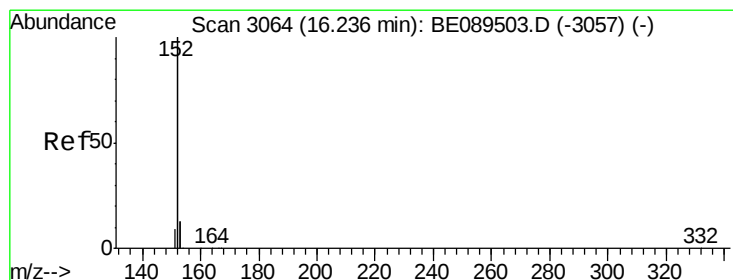
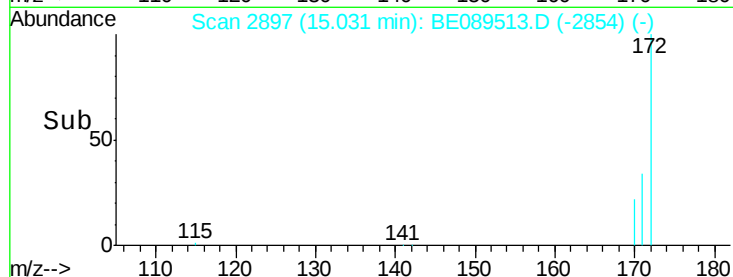
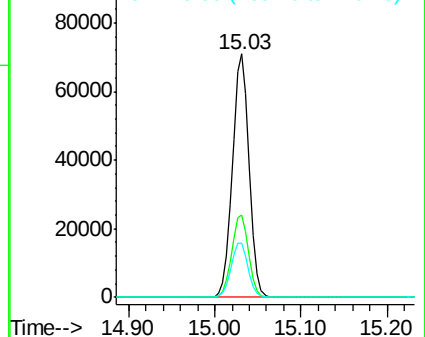
172 100

171 33.8 27.4 41.0

170 22.2 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: 5.57 ng

RT: 16.24 min Scan# 3064

Delta R.T. 0.00 min

Lab File: BE089513.D

Acq: 5 Feb 2015 21:30

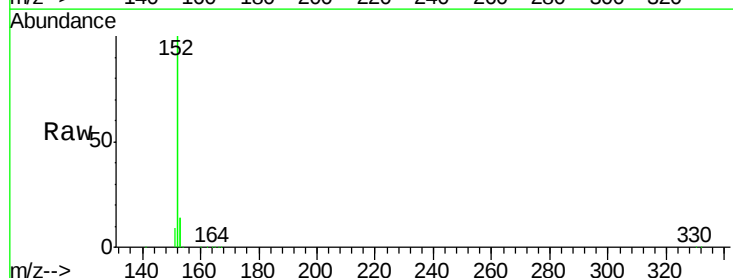
Tgt Ion:152 Resp: 525899

Ion Ratio Lower Upper

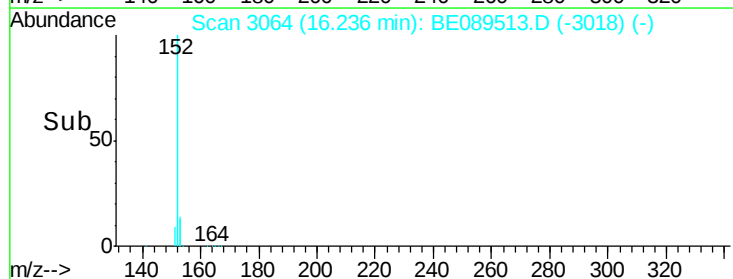
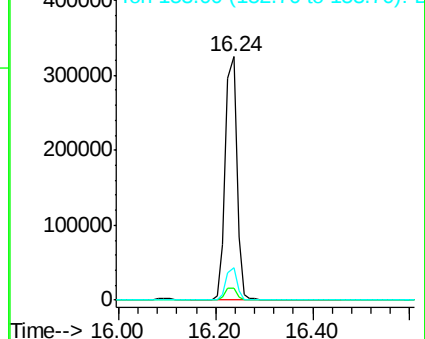
152 100

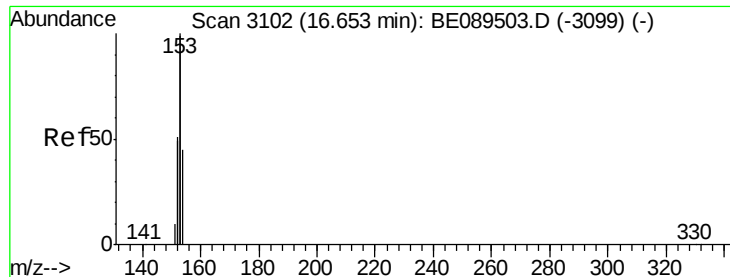
151 5.0 3.9 5.9

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: 5.31 ng

RT: 16.65 min Scan# 3102

Delta R.T. 0.00 min

Lab File: BE089513.D

Acq: 5 Feb 2015 21:30

Instrument :

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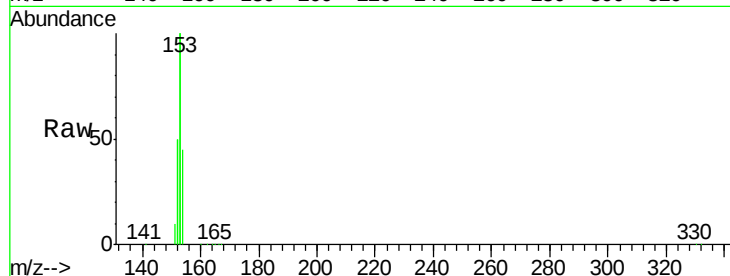
Tot Ion:154 Resp: 76930

Ion Ratio Lower Upper

154 100

153 430.5 341.5 512.3

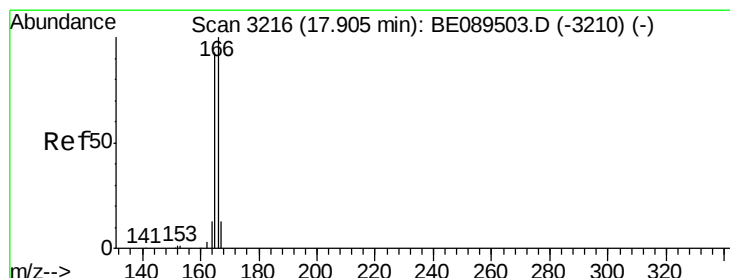
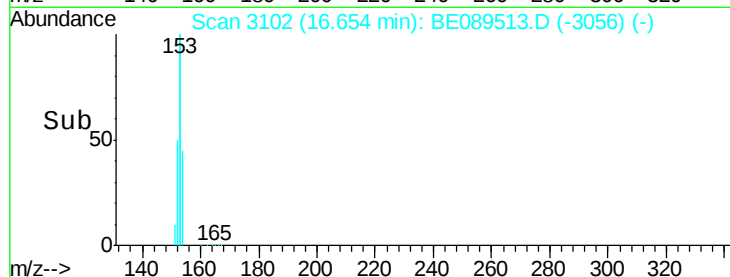
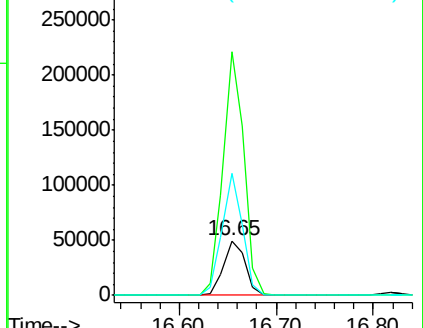
152 209.4 166.6 249.8



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: 6.11 ng

RT: 17.91 min Scan# 3216

Delta R.T. 0.00 min

Lab File: BE089513.D

Acq: 5 Feb 2015 21:30

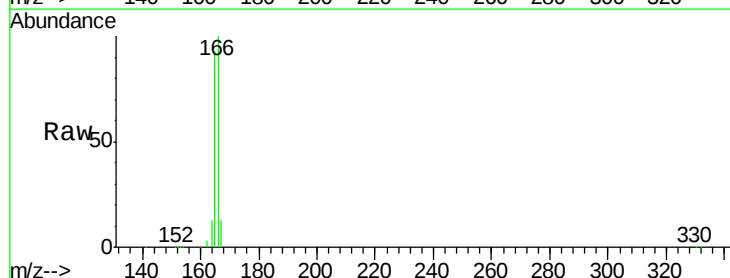
Tgt Ion:166 Resp: 94899

Ion Ratio Lower Upper

166 100

165 93.1 73.6 110.4

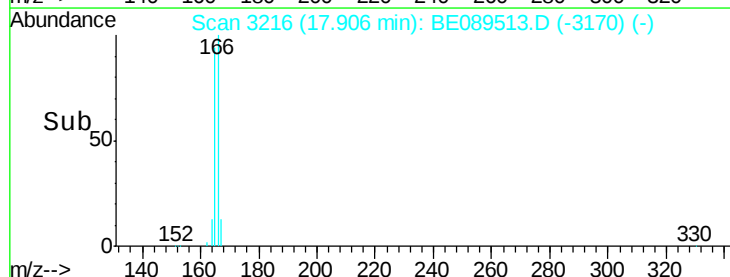
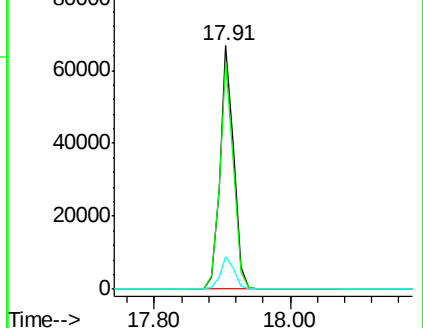
167 13.2 10.6 15.8

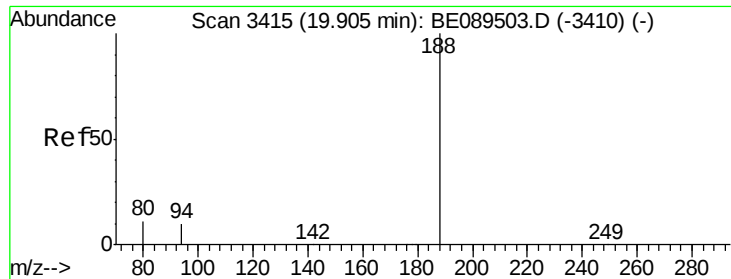


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E

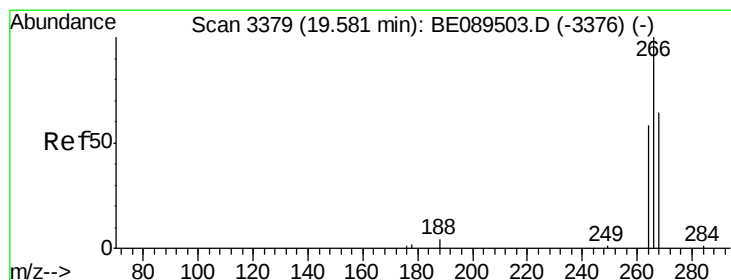
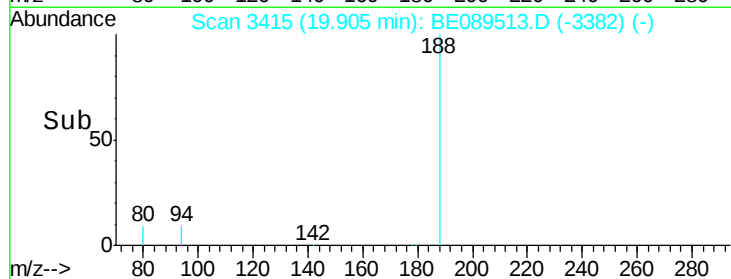
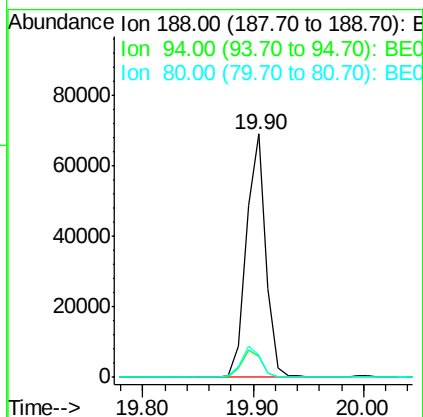
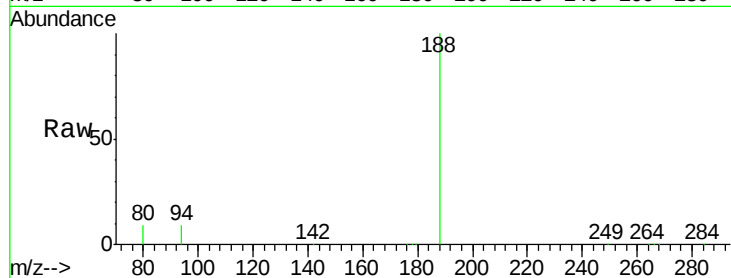




#11
Phenanthrene-d10
Concen: 5.00 ng
RT: 19.90 min Scan# 3415
Delta R.T. -0.00 min
Lab File: BE089513.D
Acq: 5 Feb 2015 21:30

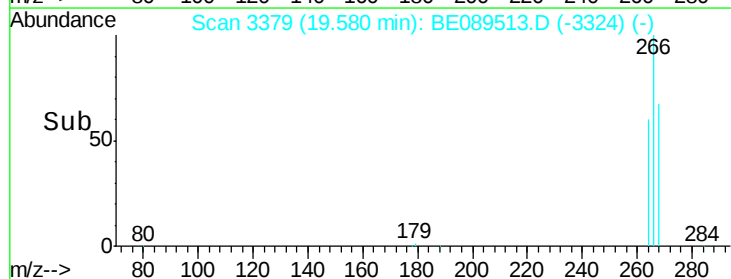
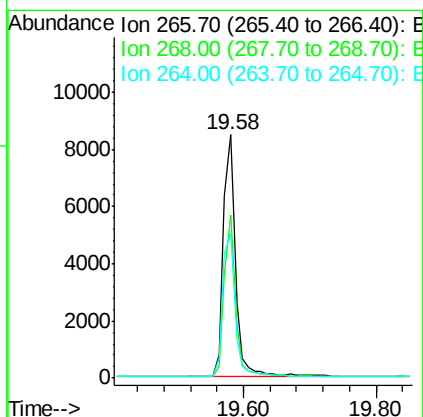
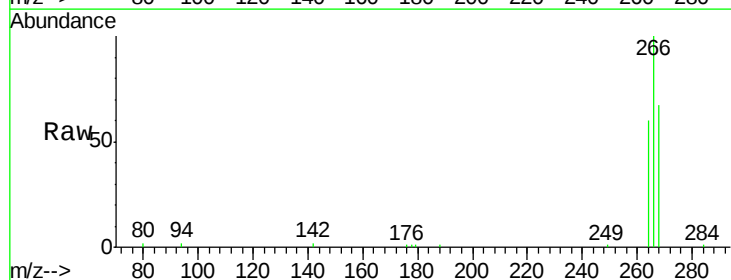
Instrument :
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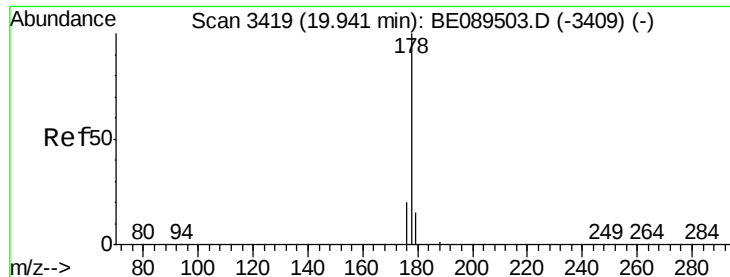
Tot Ion:188 Resp: 84532
Ion Ratio Lower Upper
188 100
94 8.8 8.2 12.4
80 9.0 8.7 13.1



#12
Pentachlorophenol
Concen: 0.27 ng
RT: 19.58 min Scan# 3379
Delta R.T. -0.00 min
Lab File: BE089513.D
Acq: 5 Feb 2015 21:30

Tgt Ion:266 Resp: 10938
Ion Ratio Lower Upper
266 100
268 67.1 56.7 85.1
264 59.8 51.9 77.9

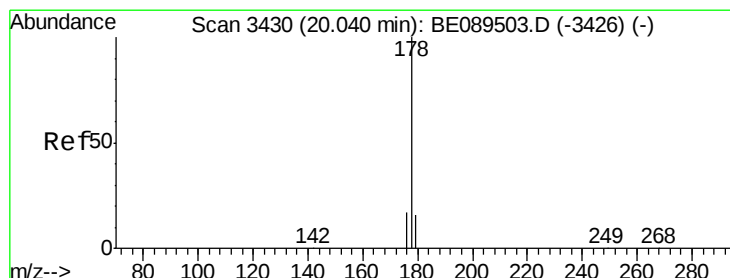
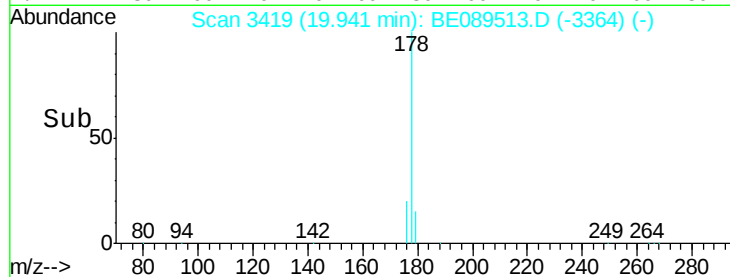
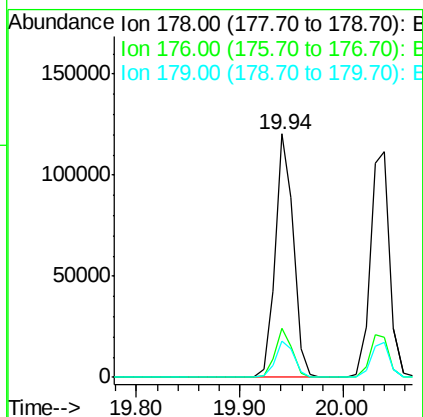
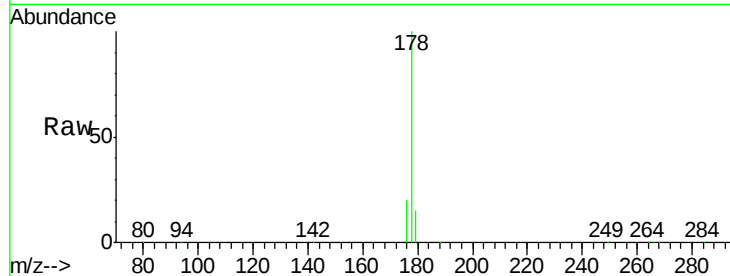




#13
Phenanthrene
Concen: 5.74 ng
RT: 19.94 min Scan# 3419
Delta R.T. -0.00 min
Lab File: BE089513.D
Acq: 5 Feb 2015 21:30

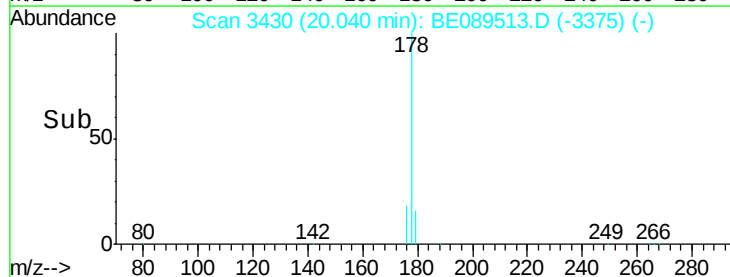
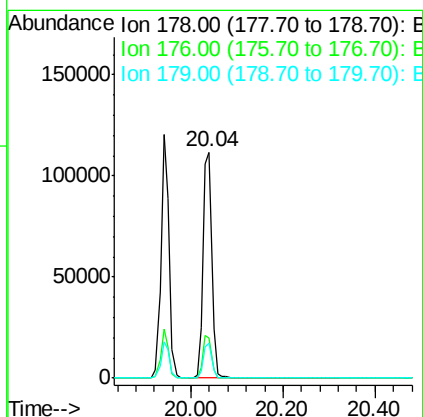
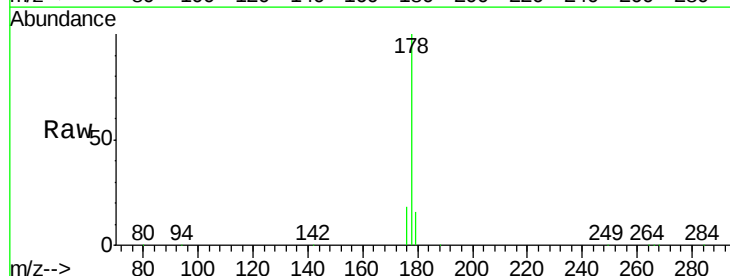
Instrument :
BNA_E
ClientSampleId :
PB81591BS

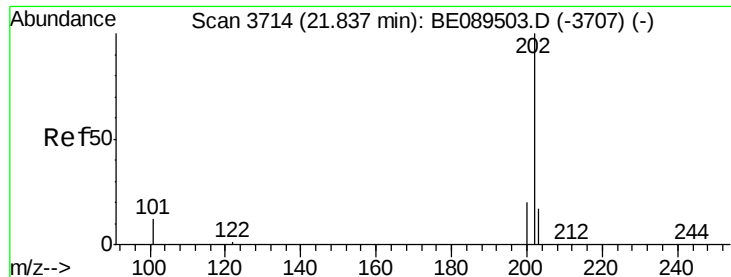
Tot Ion:178 Resp: 147399
Ion Ratio Lower Upper
178 100
176 19.1 15.4 23.0
179 15.2 12.4 18.6



#14
Anthracene
Concen: 6.55 ng
RT: 20.04 min Scan# 3430
Delta R.T. -0.00 min
Lab File: BE089513.D
Acq: 5 Feb 2015 21:30

Tgt Ion:178 Resp: 148222
Ion Ratio Lower Upper
178 100
176 18.5 14.6 22.0
179 15.0 12.1 18.1





#15

Fluoranthene

Concen: 6.42 ng

RT: 21.83 min Scan# 3713

Delta R.T. -0.00 min

Lab File: BE089513.D

Acq: 5 Feb 2015 21:30

Instrument :

BNA_E

ClientSampleId :

PB81591BS

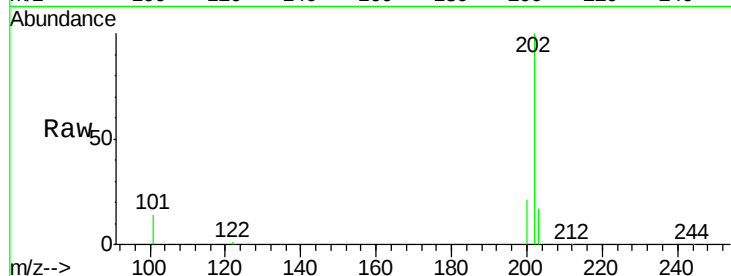
Tot Ion:202 Resp: 152041

Ion Ratio Lower Upper

202 100

101 13.1 11.3 16.9

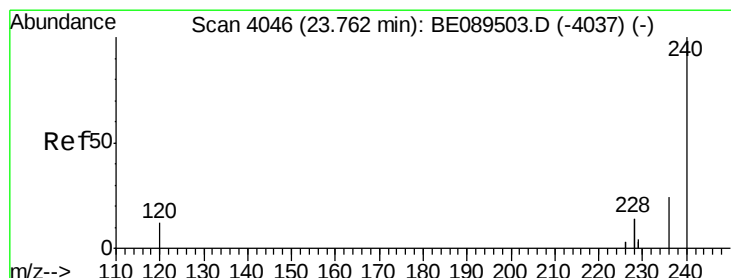
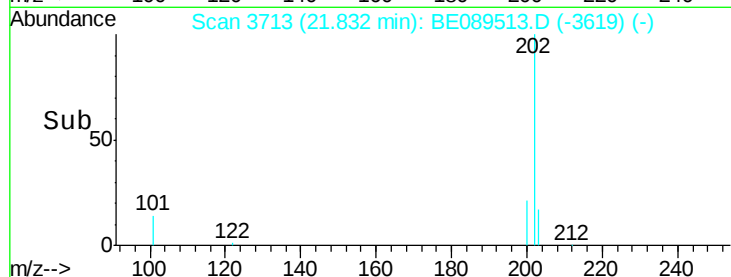
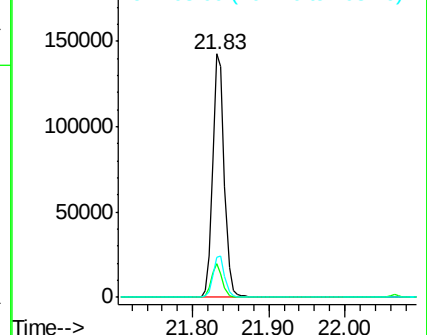
203 17.1 13.8 20.6



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: 23.76 min Scan# 4046

Delta R.T. 0.00 min

Lab File: BE089513.D

Acq: 5 Feb 2015 21:30

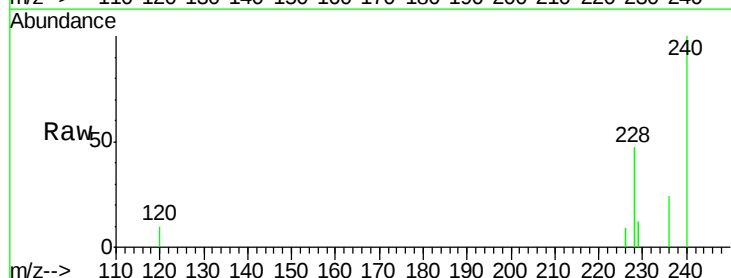
Tgt Ion:240 Resp: 93979

Ion Ratio Lower Upper

240 100

120 9.9 9.6 14.4

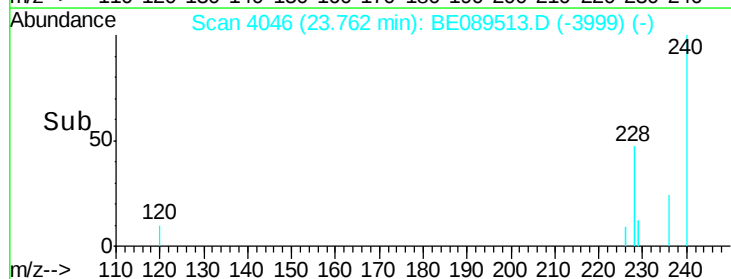
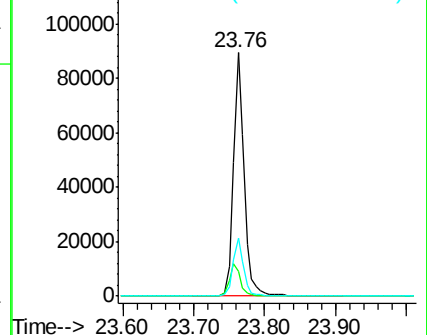
236 23.9 19.4 29.2

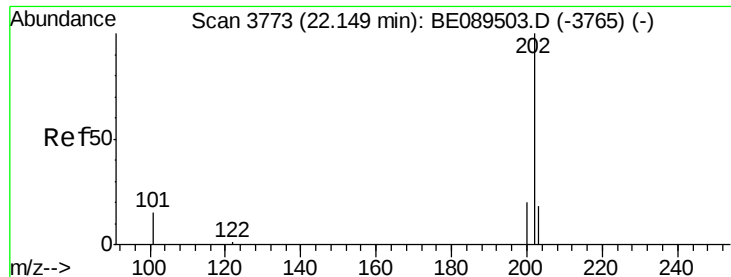


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

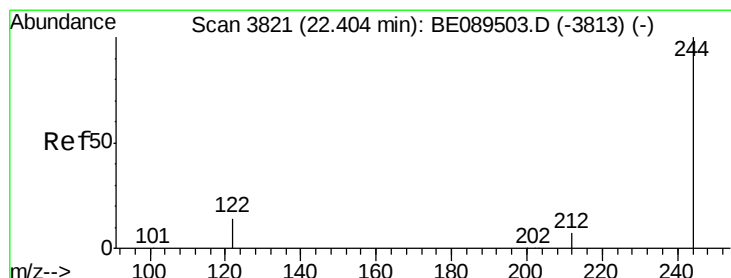
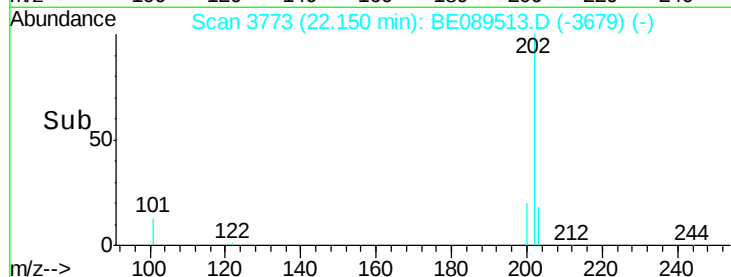
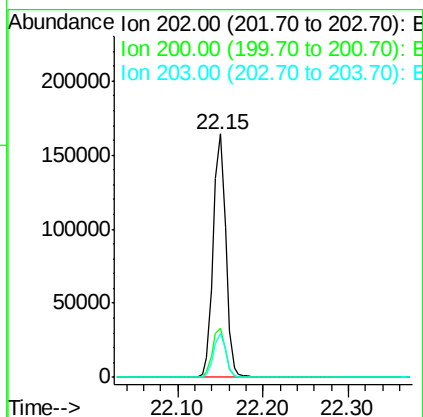
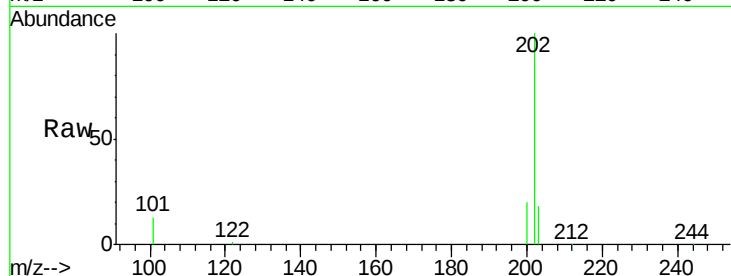




#17
Pvrene
Concen: 6.14 ng
RT: 22.15 min Scan# 3773
Delta R.T. 0.00 min
Lab File: BE089513.D
Acq: 5 Feb 2015 21:30

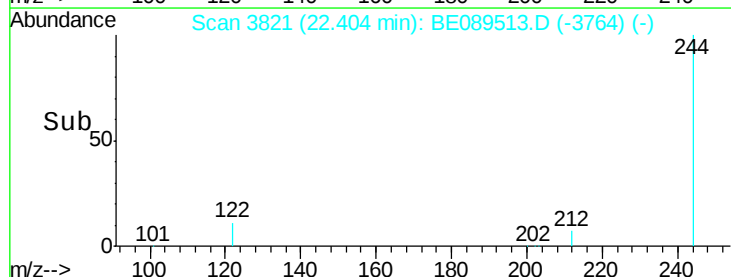
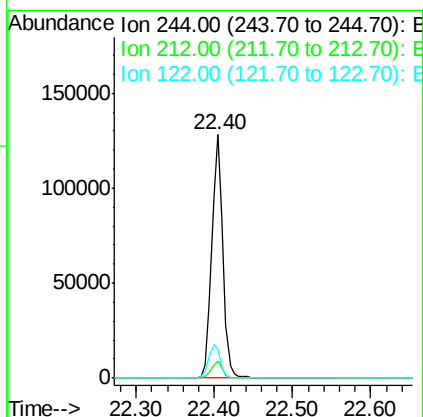
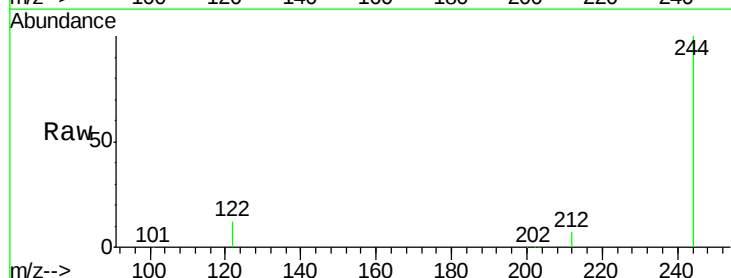
Instrument :
BNA_E
ClientSampleId :
PB81591BS

Tot Ion:202 Resp: 165004
Ion Ratio Lower Upper
202 100
200 20.8 16.5 24.7
203 17.9 14.0 21.0



#18
Terphenyl-d14
Concen: 7.69 ng
RT: 22.40 min Scan# 3821
Delta R.T. 0.00 min
Lab File: BE089513.D
Acq: 5 Feb 2015 21:30

Tgt Ion:244 Resp: 125751
Ion Ratio Lower Upper
244 100
212 7.0 5.5 8.3
122 11.5 11.1 16.7





#19

Benzo(a)anthracene

Concen: 6.35 ng

RT: 23.75 min Scan# 4044

Delta R.T. 0.00 min

Lab File: BE089513.D

Acq: 5 Feb 2015 21:30

Instrument :

BNA_E

ClientSampleId :

PB81591BS

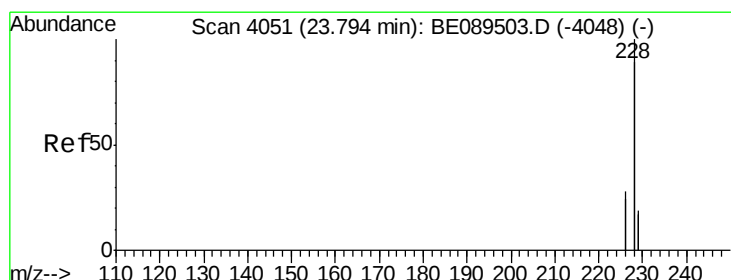
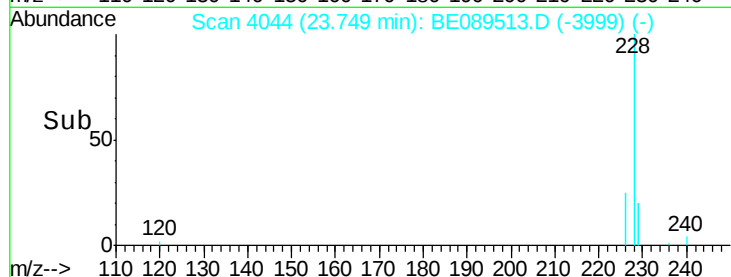
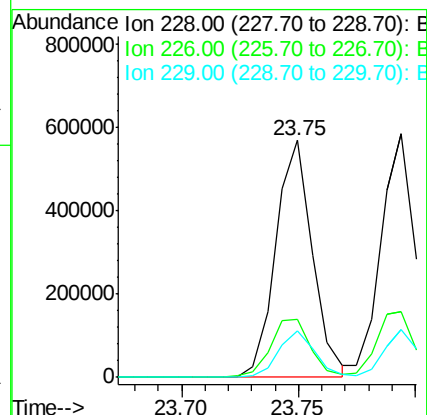
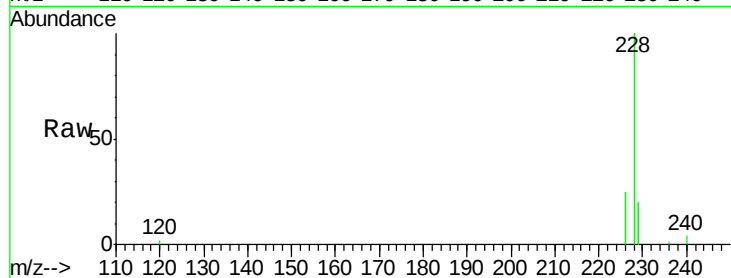
Tot Ion:228 Resp: 618158

Ion Ratio Lower Upper

228 100

226 24.8 21.0 31.6

229 19.9 15.5 23.3



#20

Chrysene

Concen: 6.74 ng

RT: 23.79 min Scan# 4051

Delta R.T. 0.00 min

Lab File: BE089513.D

Acq: 5 Feb 2015 21:30

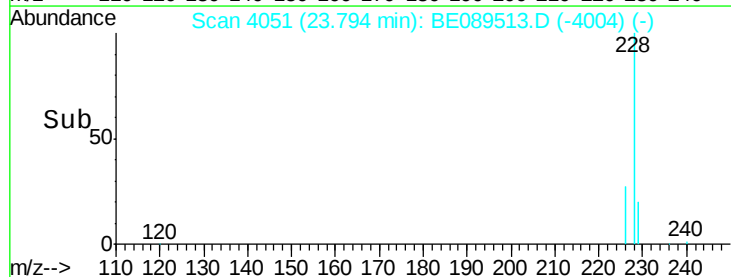
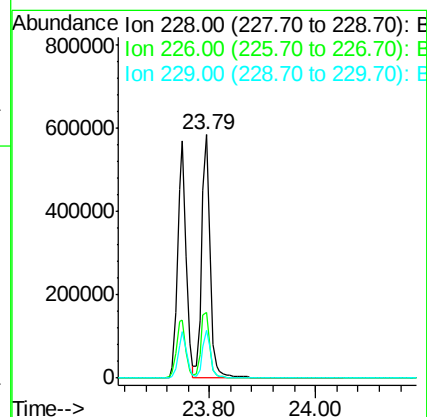
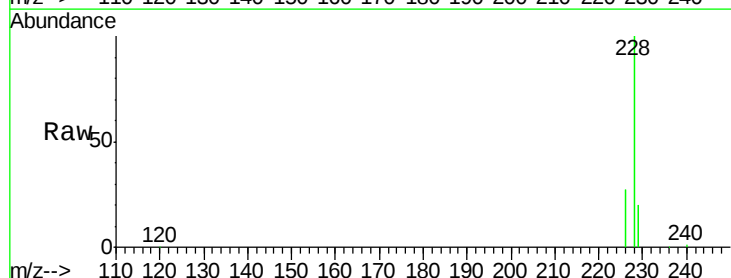
Tgt Ion:228 Resp: 640389

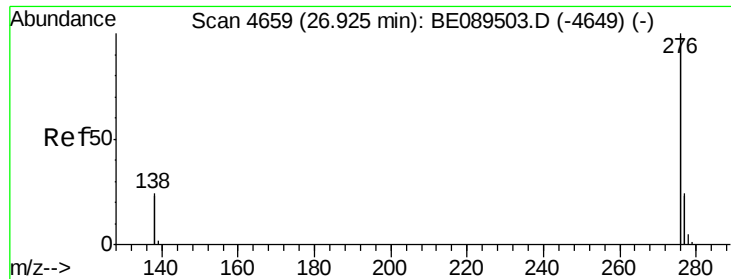
Ion Ratio Lower Upper

228 100

226 27.1 22.3 33.5

229 19.8 15.4 23.0





#21

Indeno(1,2,3-cd)pyrene

Concen: 6.08 ng

RT: 26.92 min Scan# 4657

Delta R.T. -0.01 min

Lab File: BE089513.D

Acq: 5 Feb 2015 21:30

Instrument :

BNA_E

ClientSampleId :

PB81591BS

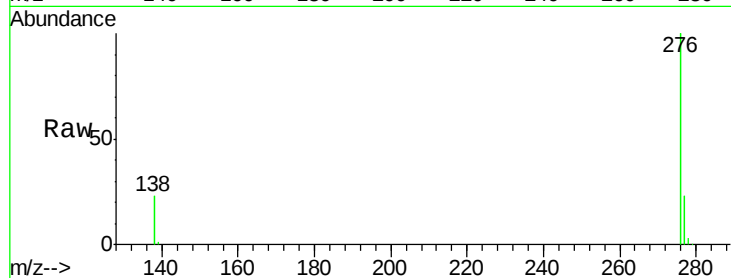
Tot Ion:276 Resp: 675036

Ion Ratio Lower Upper

276 100

138 27.0 23.2 34.8

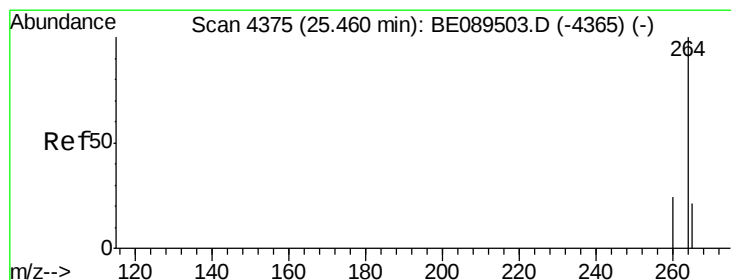
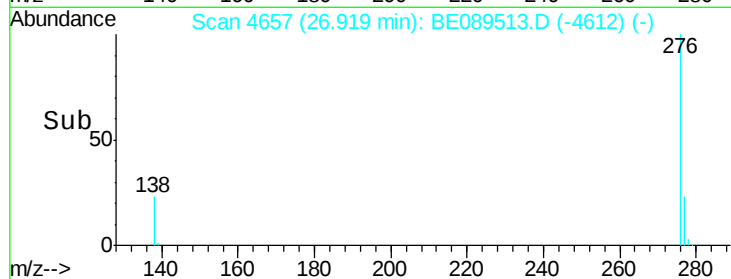
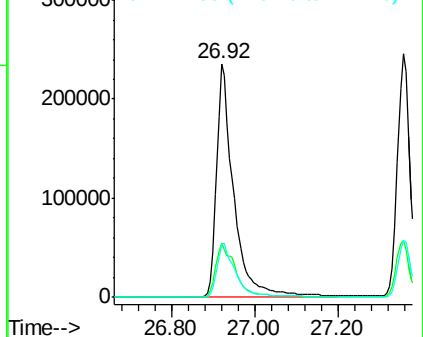
277 25.2 19.8 29.6



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# 4374

Delta R.T. -0.00 min

Lab File: BE089513.D

Acq: 5 Feb 2015 21:30

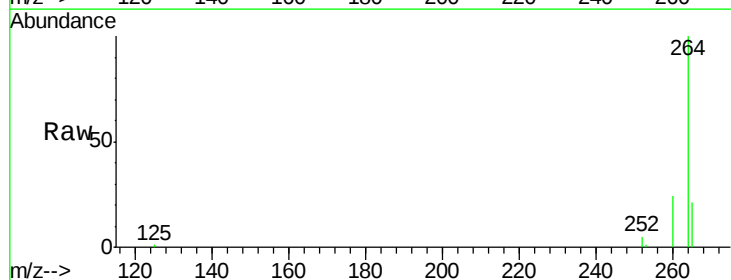
Tgt Ion:264 Resp: 89956

Ion Ratio Lower Upper

264 100

260 24.0 19.0 28.6

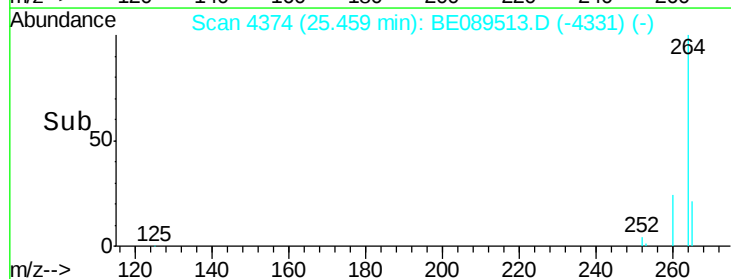
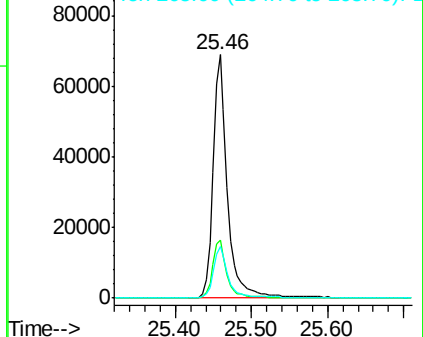
265 21.4 17.0 25.6



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

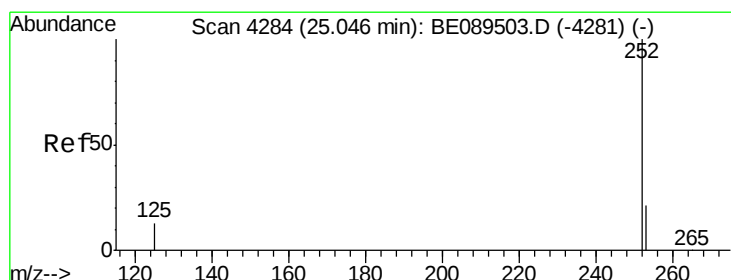
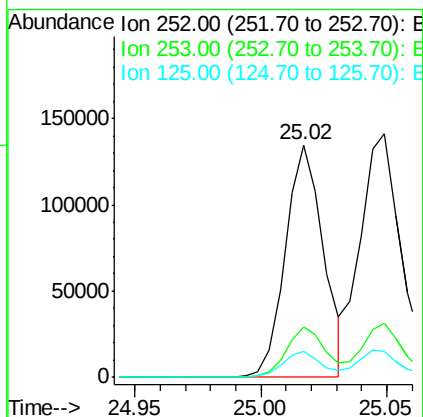
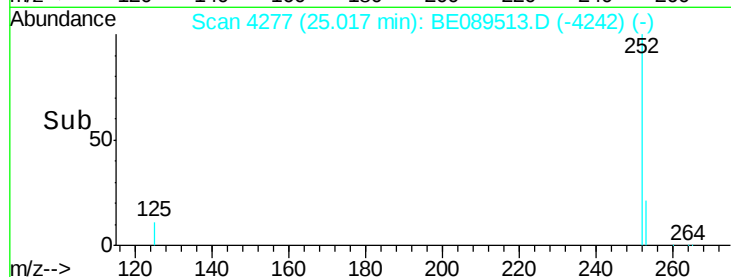
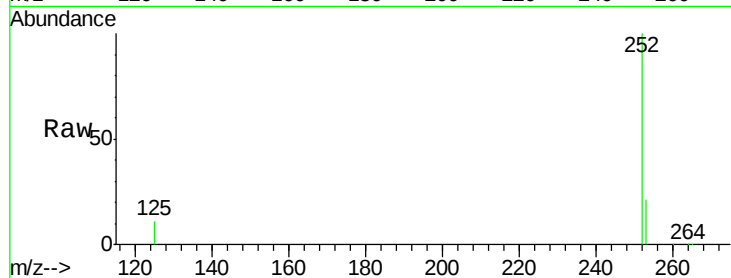




#23
Benzo(b)fluoranthene
Concen: 6.23 ng
RT: 25.02 min Scan# 4277
Delta R.T. -0.00 min
Lab File: BE089513.D
Acq: 5 Feb 2015 21:30

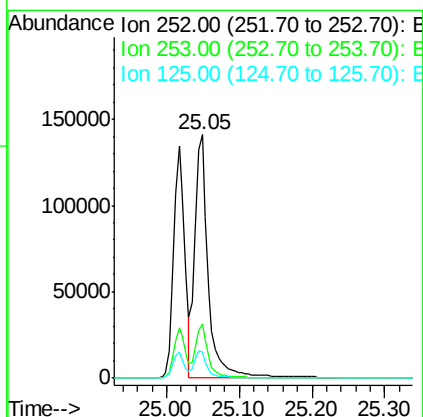
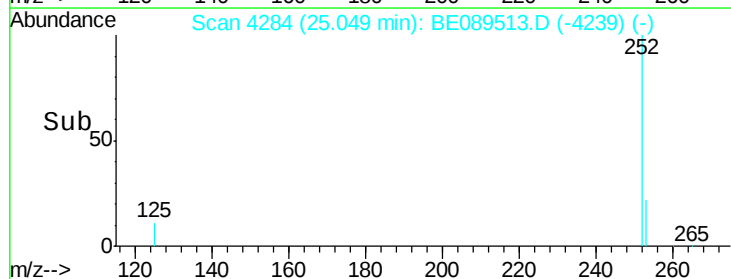
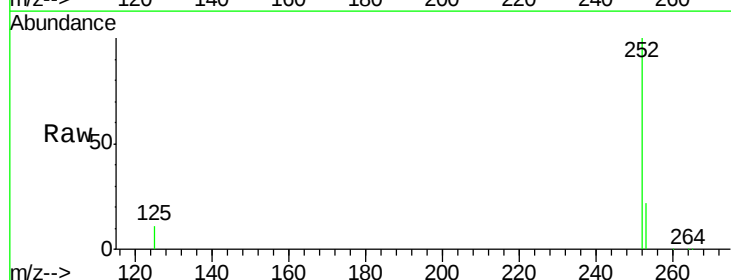
Instrument :
BNA_E
ClientSampleId :
PB81591BS

Tot Ion:252 Resp: 140676
Ion Ratio Lower Upper
252 100
253 21.5 17.4 26.0
125 11.1 9.6 14.4



#24
Benzo(k)fluoranthene
Concen: 6.22 ng
RT: 25.05 min Scan# 4284
Delta R.T. 0.00 min
Lab File: BE089513.D
Acq: 5 Feb 2015 21:30

Tgt Ion:252 Resp: 178367
Ion Ratio Lower Upper
252 100
253 22.0 17.0 25.6
125 10.7 10.2 15.4





#25

Benzo(a)pyrene

Concen: 6.29 ng

RT: 25.39 min Scan# 4359

Delta R.T. -0.00 min

Lab File: BE089513.D

Acq: 5 Feb 2015 21:30

Instrument :

BNA_E

ClientSampleId :

PB81591BS

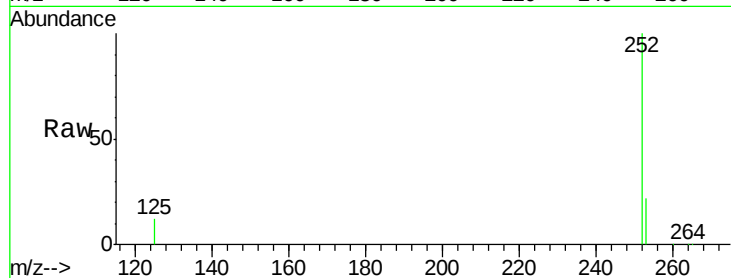
Tot Ion:252 Resp: 142857

Ion Ratio Lower Upper

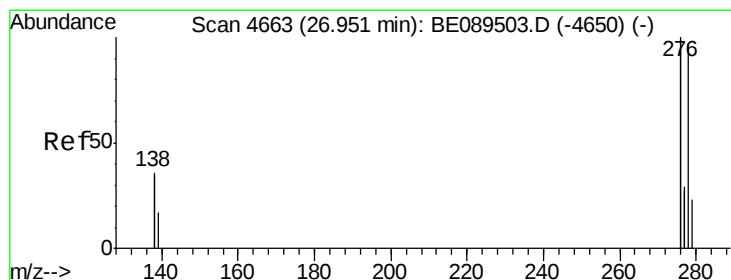
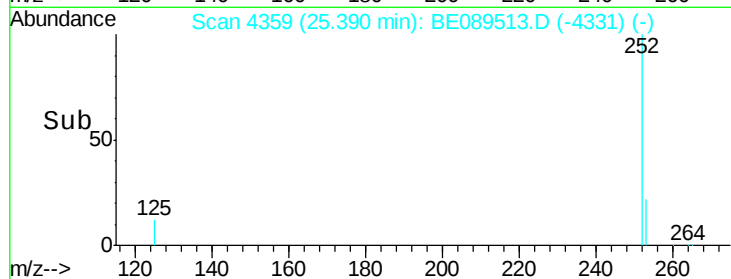
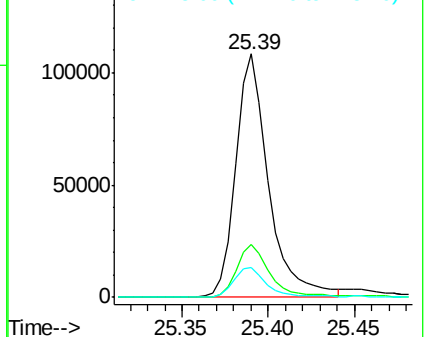
252 100

253 22.0 17.8 26.6

125 12.4 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: 6.38 ng

RT: 26.95 min Scan# 4662

Delta R.T. 0.00 min

Lab File: BE089513.D

Acq: 5 Feb 2015 21:30

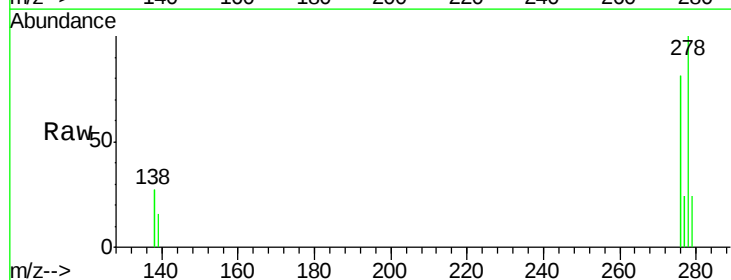
Tgt Ion:278 Resp: 149773

Ion Ratio Lower Upper

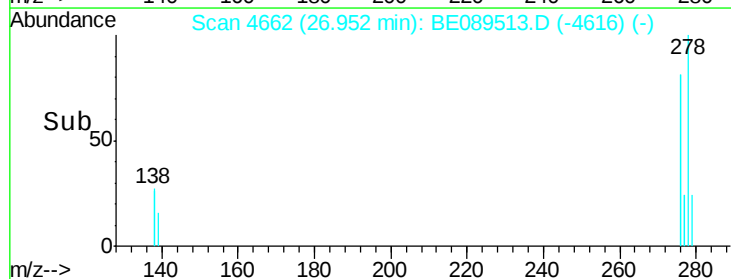
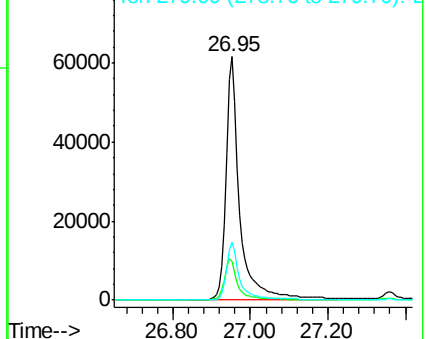
278 100

139 16.0 14.6 22.0

279 24.0 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: 6.40 ng

RT: 27.36 min Scan# 4724

Delta R.T. 0.00 min

Lab File: BE089513.D

Acq: 5 Feb 2015 21:30

Instrument :

BNA_E

ClientSampleId :

PB81591BS

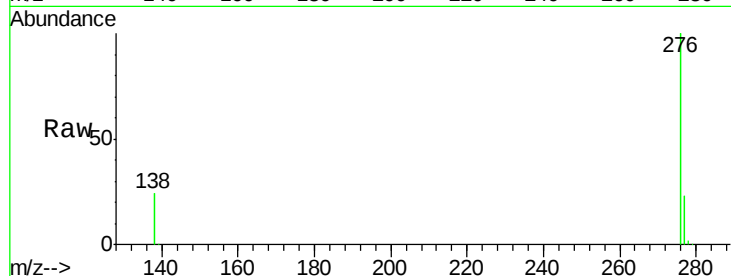
Tot Ion: 276 Resp: 572421

Ion Ratio Lower Upper

276 100

277 23.3 18.6 28.0

138 23.5 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

