

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE020515\
 Data File : BE089514.D
 Acq On : 5 Feb 2015 22:09
 Operator : TP/IZ
 Sample : PB81591BSD
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 PB81591BSD

Quant Time: Feb 06 04:12:42 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	27863	5.00	ng	0.00
2) Naphthalene-d8	12.40	136	115715	5.00	ng	0.00
6) Acenaphthene-d10	16.59	164	54569	5.00	ng	0.00
11) Phenanthrene-d10	19.90	188	104473	5.00	ng	0.00
16) Chrysene-d12	23.76	240	116856	5.00	ng	0.00
22) Perylene-d12	25.46	264	117520	5.00	ng	0.00

System Monitoring Compounds						
3) Nitrobenzene-d5	10.76	82	61109	6.92	ng	0.00
7) 2-Fluorobiphenyl	15.03	172	112604	6.55	ng	0.00
18) Terphenyl-d14	22.40	244	148447	7.30	ng	0.00

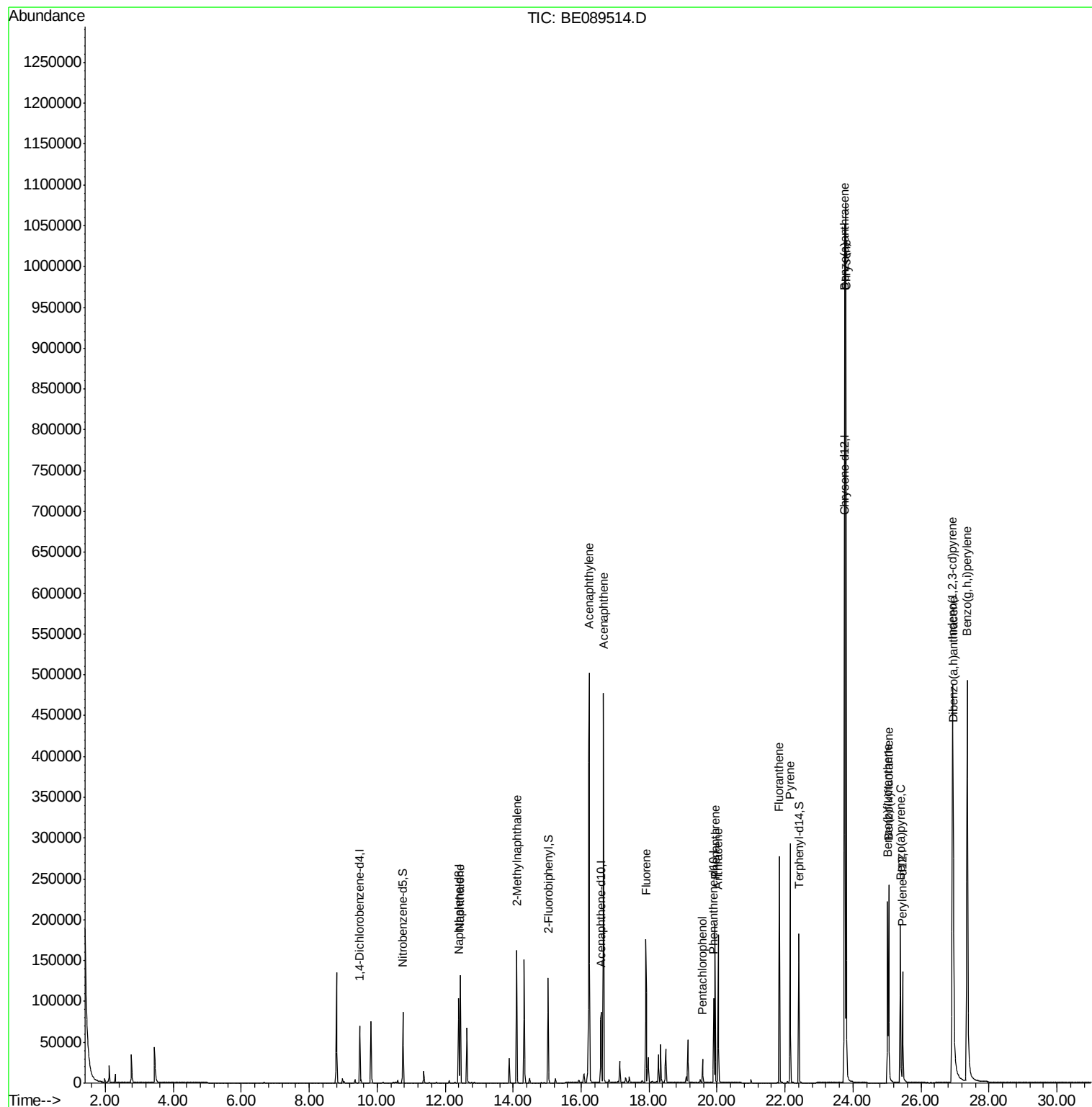
Target Compounds				Qvalue		
4) Naphthalene	12.44	128	148522	5.10	ng	99
5) 2-Methylnaphthalene	14.10	142	98721	5.17	ng	95
8) Acenaphthylene	16.24	152	643105	5.49	ng	100
9) Acenaphthene	16.65	154	94899	5.28	ng	100
10) Fluorene	17.91	166	115363	5.95	ng	98
12) Pentachlorophenol	19.58	266	15990	0.32	ng	94
13) Phenanthrene	19.94	178	180896	5.70	ng	99
14) Anthracene	20.04	178	181731	6.48	ng	100
15) Fluoranthene	21.83	202	187707	6.42	ng	99
17) Pyrene	22.15	202	201624	6.04	ng	99
19) Benzo(a)anthracene	23.75	228	774339	6.41	ng	98
20) Chrysene	23.79	228	771492	6.46	ng	99
21) Indeno(1,2,3-cd)pyrene	26.93	276	920201	6.96	ng	97
23) Benzo(b)fluoranthene	25.02	252	181077	6.11	ng	99
24) Benzo(k)fluoranthene	25.05	252	224184	5.98	ng	96
25) Benzo(a)pyrene	25.39	252	194686	6.64	ng	98
26) Dibenzo(a,h)anthracene	26.95	278	204525	6.76	ng	97
27) Benzo(g,h,i)perylene	27.36	276	784821	6.82	ng	95

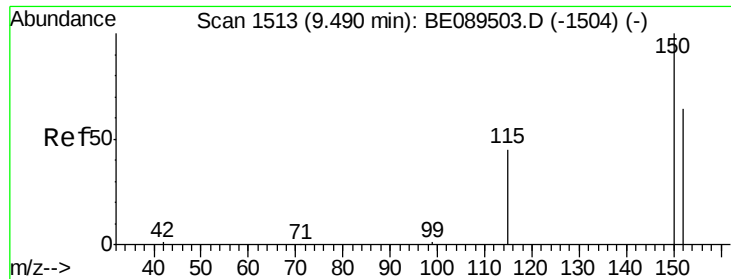
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 9.49 min Scan# 1512

Delta R.T. -0.00 min

Lab File: BE089514.D

Acq: 5 Feb 2015 22:09

Instrument :

BNA_E

ClientSampleId :

PB81591BSD

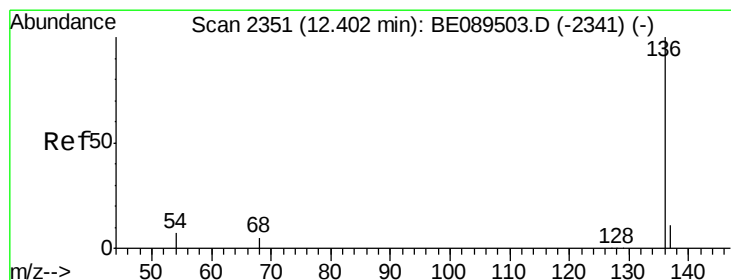
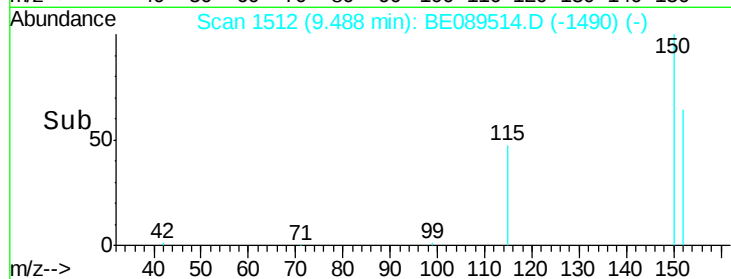
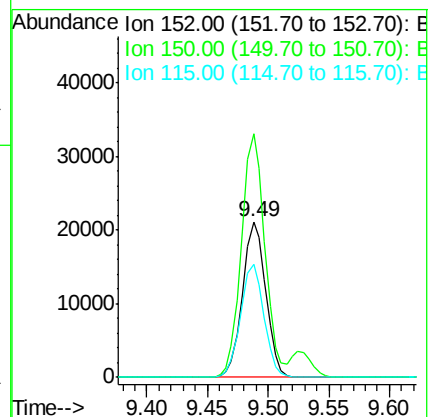
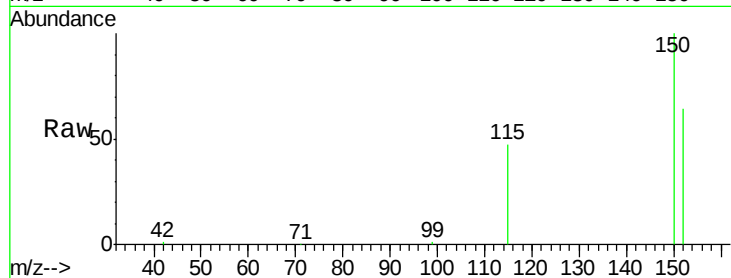
Tgt Ion:152 Resp: 27863

Ion Ratio Lower Upper

152 100

150 156.6 125.0 187.6

115 73.0 56.6 85.0



#2

Naphthalene-d8

Concen: 5.00 ng

RT: 12.40 min Scan# 2349

Delta R.T. -0.01 min

Lab File: BE089514.D

Acq: 5 Feb 2015 22:09

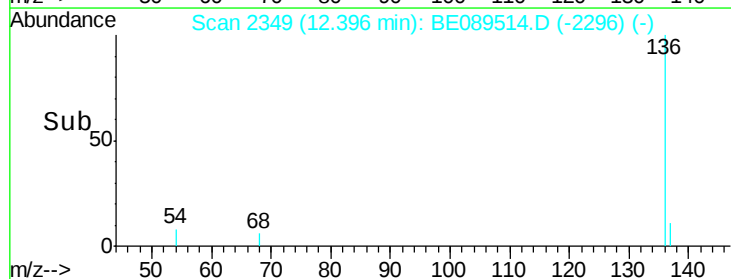
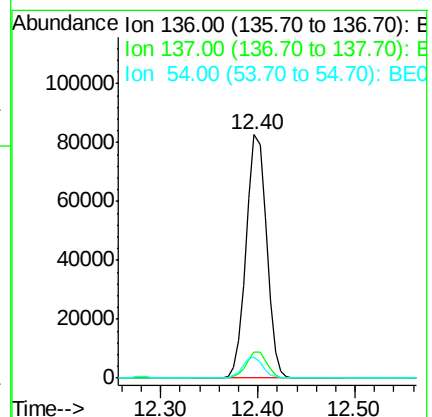
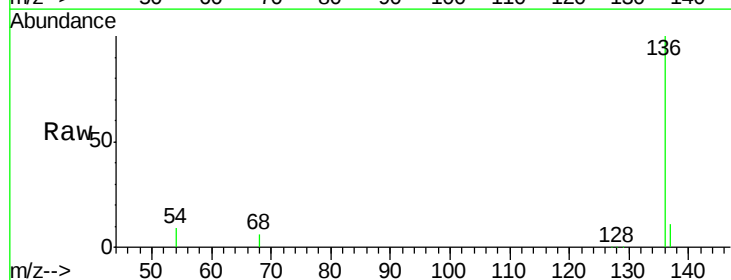
Tgt Ion:136 Resp: 115715

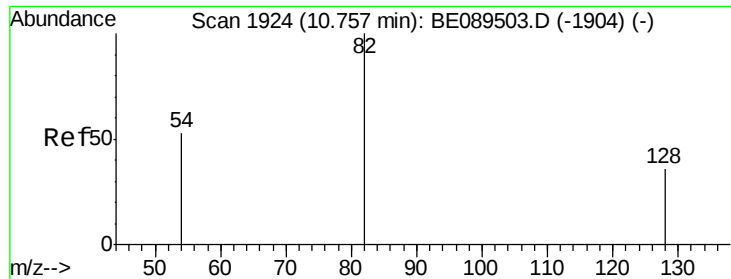
Ion Ratio Lower Upper

136 100

137 10.9 8.6 12.8

54 8.5 6.0 9.0





#3

Nitrobenzene-d5

Concen: 6.92 ng

RT: 10.76 min Scan# 1923

Delta R.T. 0.00 min

Lab File: BE089514.D

Acq: 5 Feb 2015 22:09

Instrument :

BNA_E

ClientSampleId :

PB81591BSD

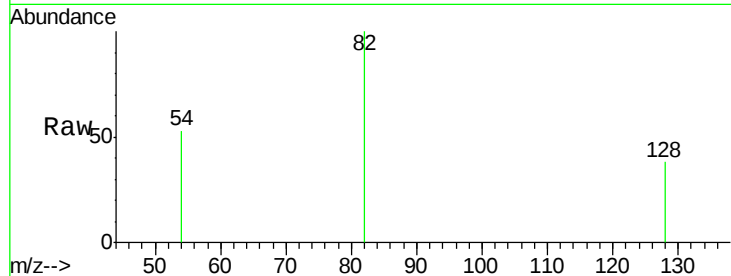
Tgt Ion: 82 Resp: 61109

Ion Ratio Lower Upper

82 100

128 37.8 29.3 43.9

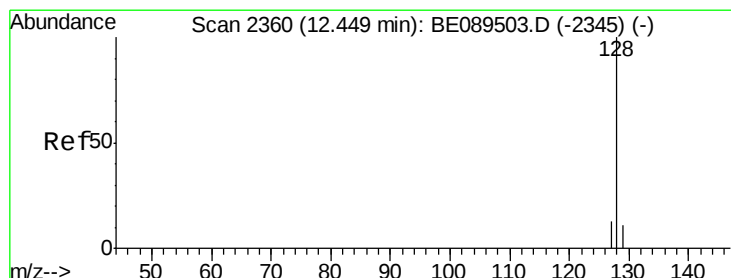
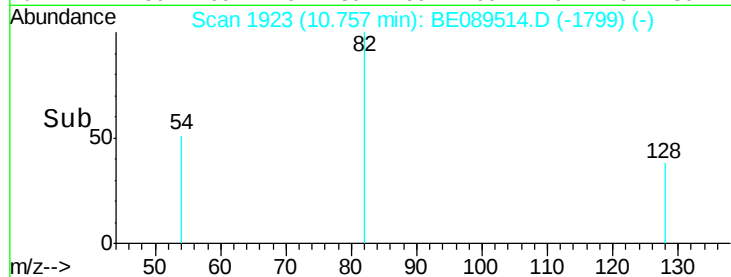
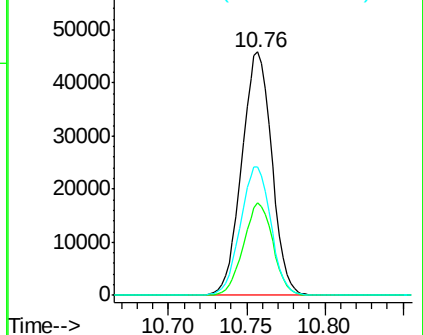
54 52.6 42.6 64.0



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: 5.10 ng

RT: 12.44 min Scan# 2358

Delta R.T. -0.01 min

Lab File: BE089514.D

Acq: 5 Feb 2015 22:09

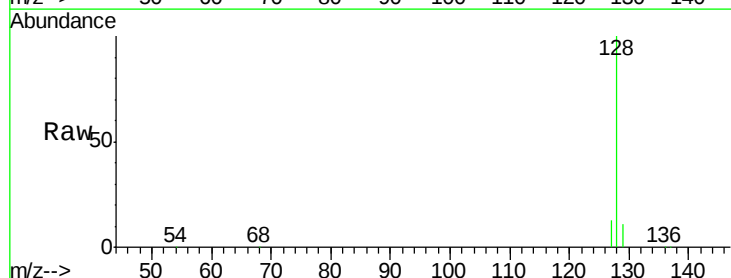
Tgt Ion: 128 Resp: 148522

Ion Ratio Lower Upper

128 100

129 10.8 8.8 13.2

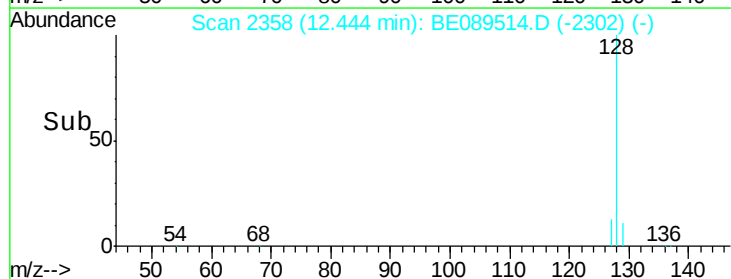
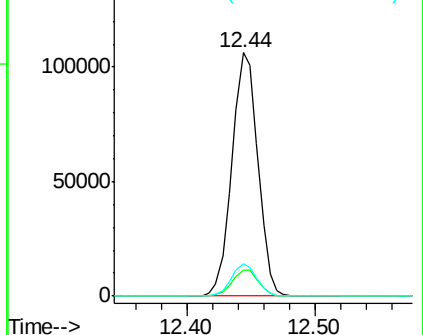
127 13.2 10.3 15.5



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: 5.17 ng

RT: 14.10 min Scan# 2692

Delta R.T. -0.00 min

Lab File: BE089514.D

Acq: 5 Feb 2015 22:09

Instrument :

BNA_E

ClientSampleId :

PB81591BSD

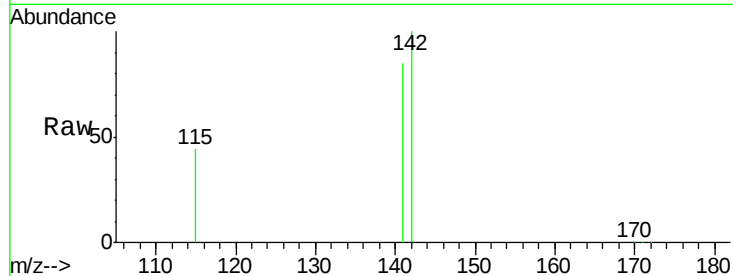
Tgt Ion:142 Resp: 98721

Ion Ratio Lower Upper

142 100

141 85.4 66.3 99.5

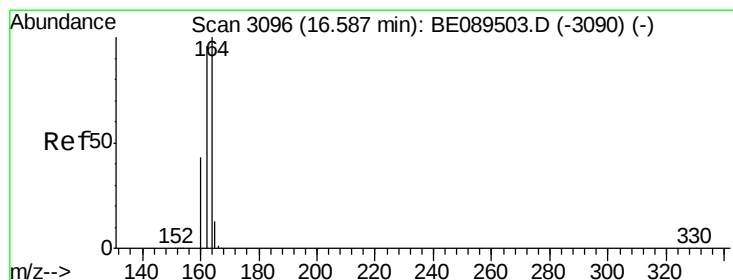
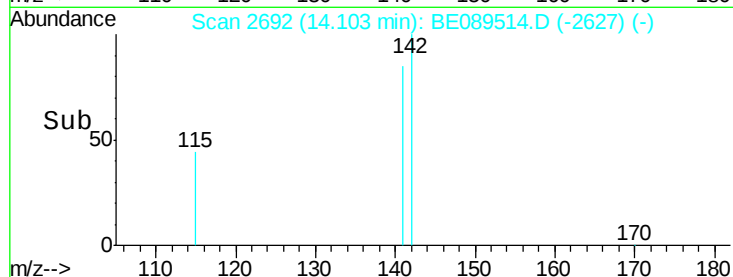
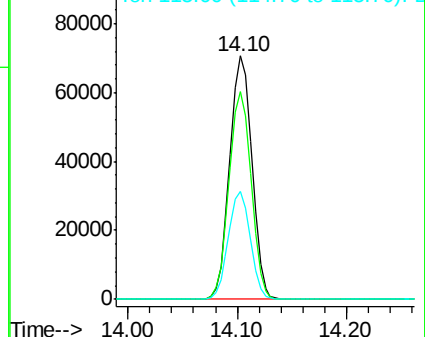
115 44.3 31.1 46.7



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# 3095

Delta R.T. 0.00 min

Lab File: BE089514.D

Acq: 5 Feb 2015 22:09

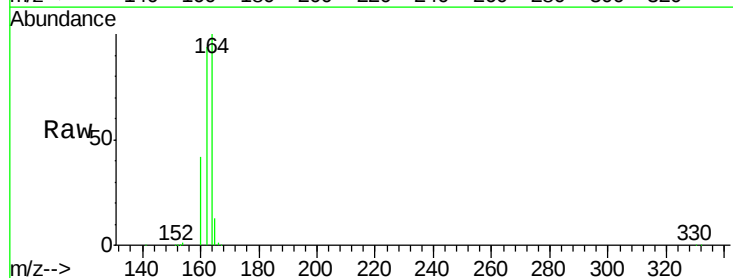
Tgt Ion:164 Resp: 54569

Ion Ratio Lower Upper

164 100

162 93.6 76.6 115.0

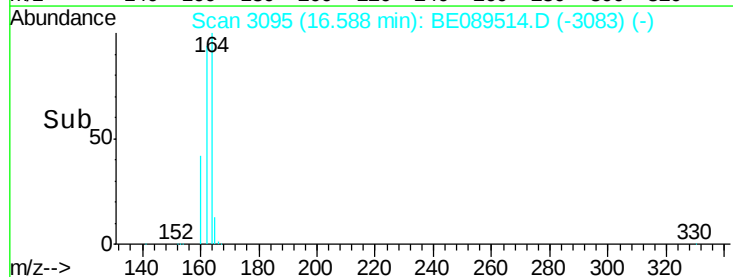
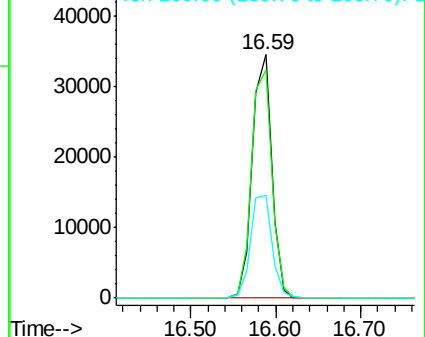
160 42.1 34.6 52.0



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: 6.55 ng

RT: 15.03 min Scan# 2896

Delta R.T. 0.00 min

Lab File: BE089514.D

Acq: 5 Feb 2015 22:09

Instrument :

BNA_E

ClientSampleId :

PB81591BSD

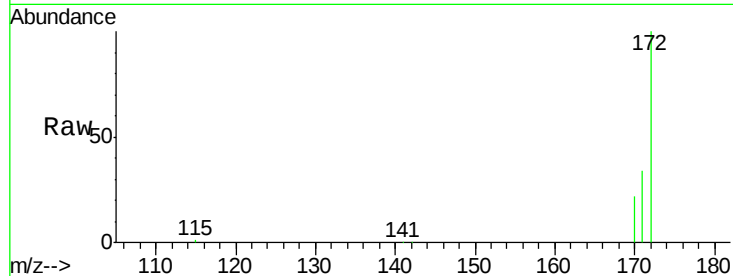
Tgt Ion:172 Resp: 112604

Ion Ratio Lower Upper

172 100

171 34.2 27.4 41.0

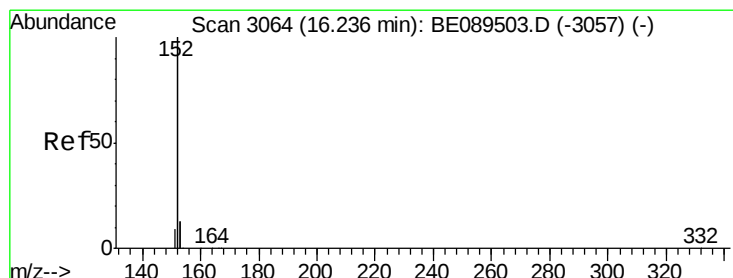
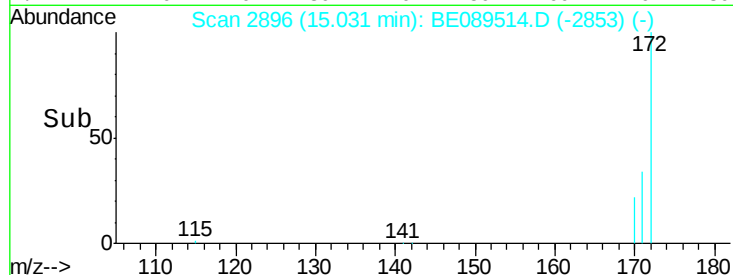
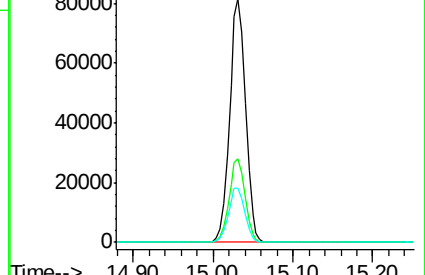
170 22.2 18.4 27.6



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: 5.49 ng

RT: 16.24 min Scan# 3063

Delta R.T. 0.00 min

Lab File: BE089514.D

Acq: 5 Feb 2015 22:09

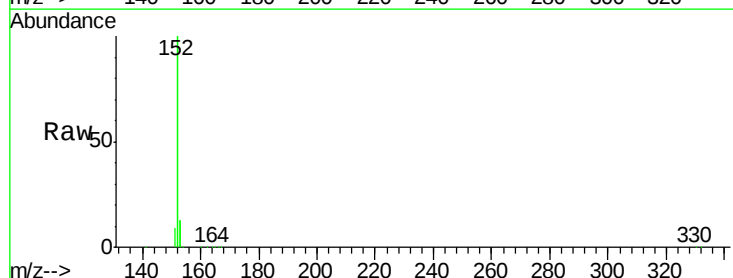
Tgt Ion:152 Resp: 643105

Ion Ratio Lower Upper

152 100

151 4.9 3.9 5.9

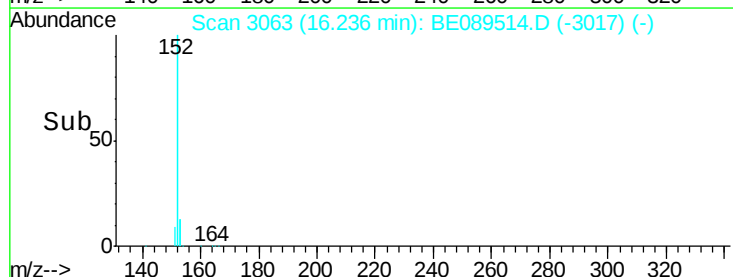
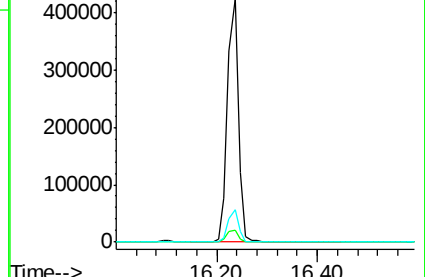
153 12.9 10.4 15.6

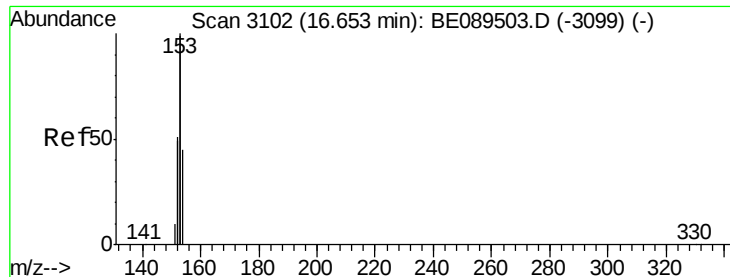


Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E





#9

Acenaphthene

Concen: 5.28 ng

RT: 16.65 min Scan# 3101

Delta R.T. 0.00 min

Lab File: BE089514.D

Acq: 5 Feb 2015 22:09

Instrument :

BNA_E

ClientSampleId :

PB81591BSD

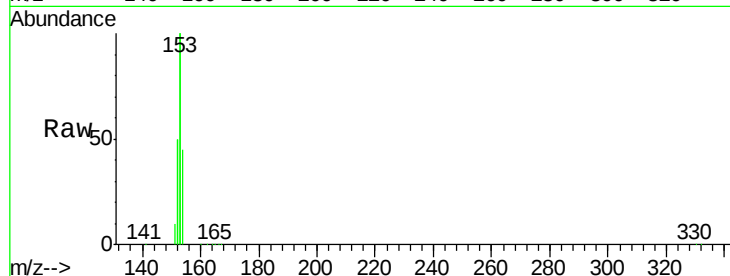
Tgt Ion:154 Resp: 94899

Ion Ratio Lower Upper

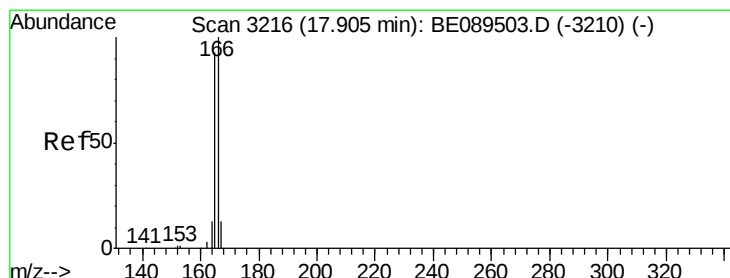
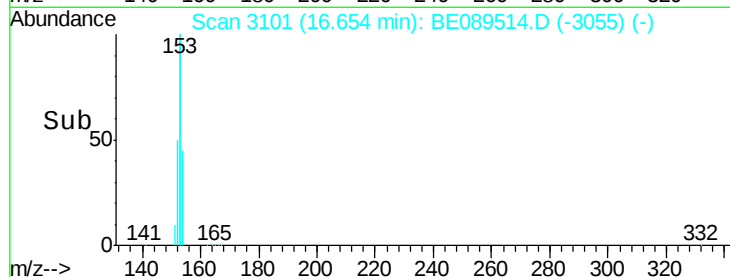
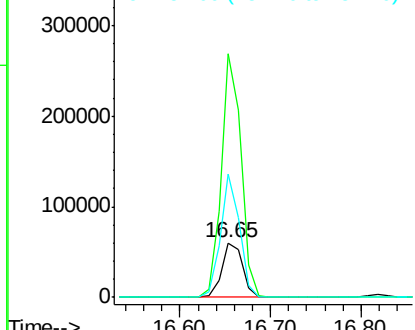
154 100

153 428.0 341.5 512.3

152 207.9 166.6 249.8



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: 5.95 ng

RT: 17.91 min Scan# 3215

Delta R.T. 0.00 min

Lab File: BE089514.D

Acq: 5 Feb 2015 22:09

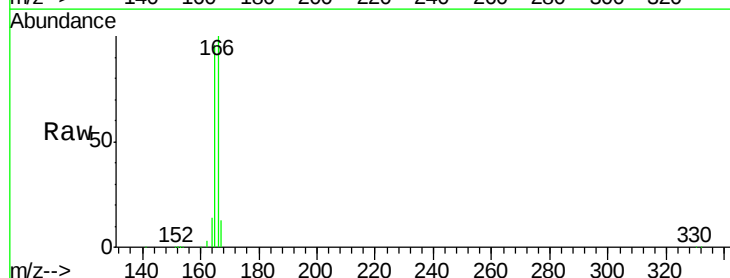
Tgt Ion:166 Resp: 115363

Ion Ratio Lower Upper

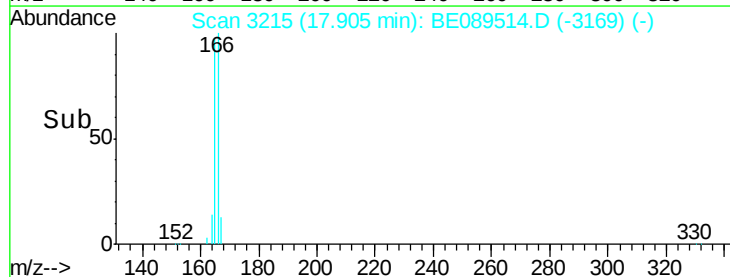
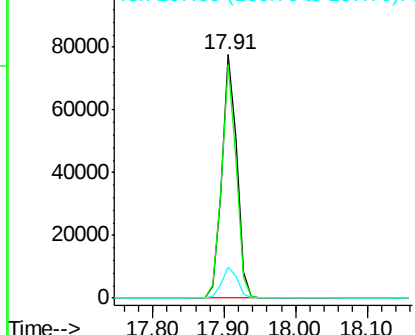
166 100

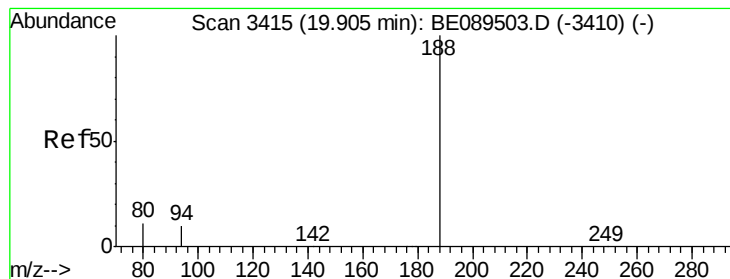
165 93.8 73.6 110.4

167 13.1 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# 3414

Delta R.T. -0.00 min

Lab File: BE089514.D

Acq: 5 Feb 2015 22:09

Instrument :

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ClientSampleId :

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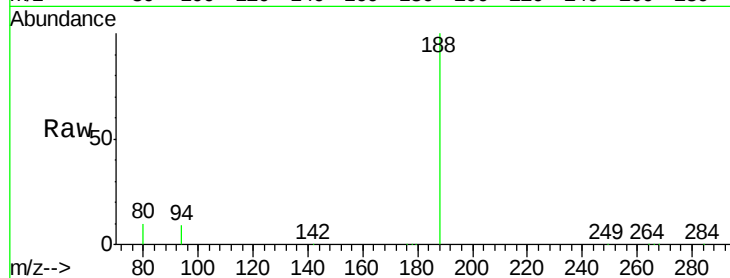
Tgt Ion:188 Resp: 104473

Ion Ratio Lower Upper

188 100

94 9.0 8.2 12.4

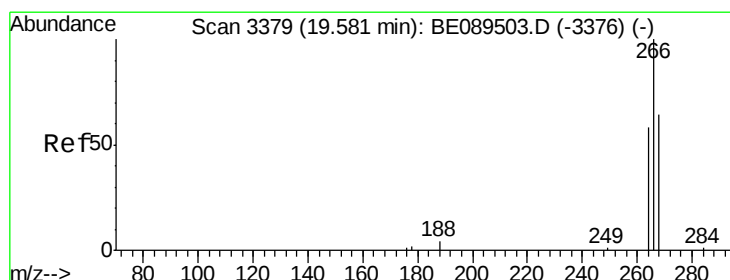
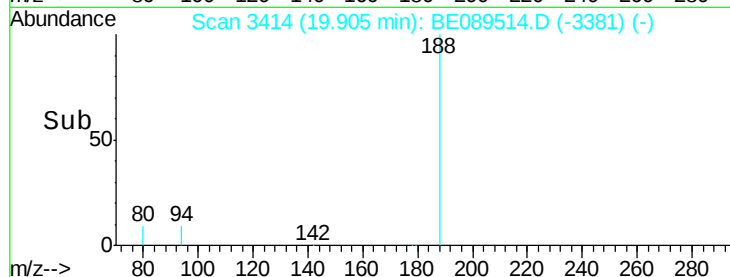
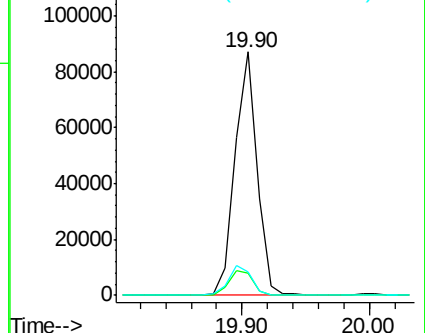
80 9.6 8.7 13.1



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: 0.32 ng

RT: 19.58 min Scan# 3378

Delta R.T. -0.00 min

Lab File: BE089514.D

Acq: 5 Feb 2015 22:09

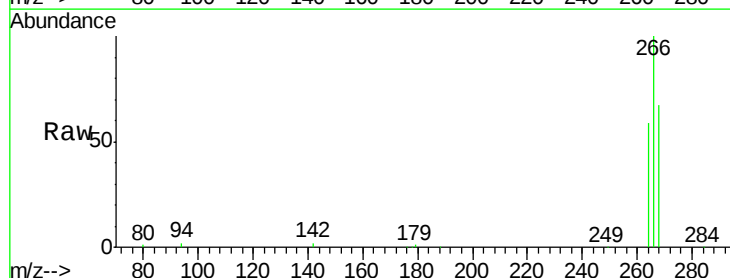
Tgt Ion:266 Resp: 15990

Ion Ratio Lower Upper

266 100

268 67.4 56.7 85.1

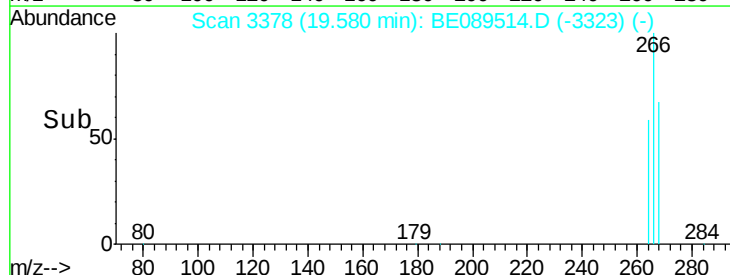
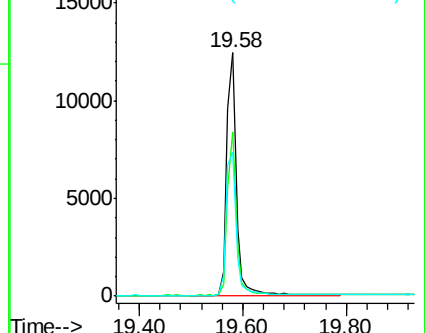
264 58.9 51.9 77.9

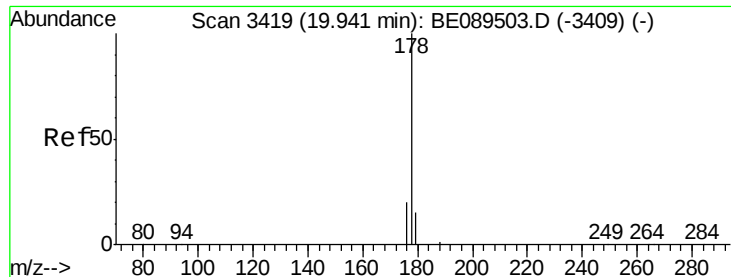


Abundance Ion 265.70 (265.40 to 266.40): E

Ion 268.00 (267.70 to 268.70): E

Ion 264.00 (263.70 to 264.70): E

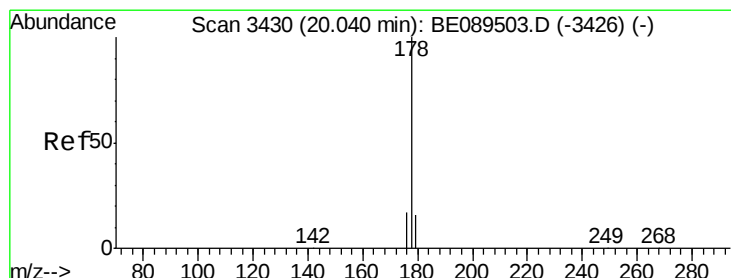
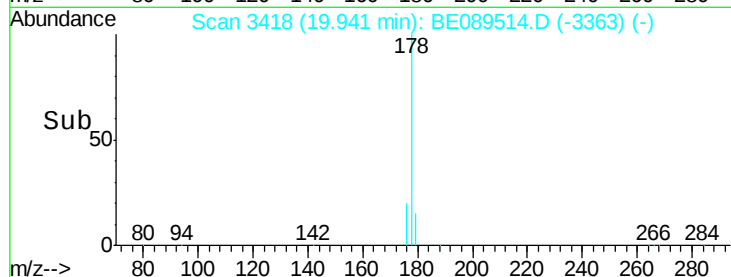
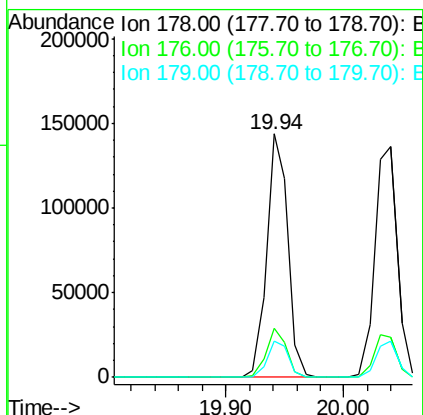
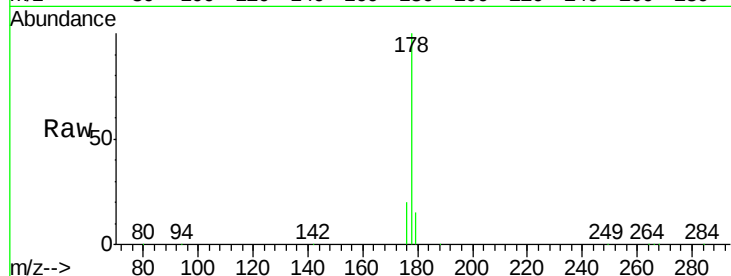




#13
Phenanthrene
Concen: 5.70 ng
RT: 19.94 min Scan# 3418
Delta R.T. -0.00 min
Lab File: BE089514.D
Acq: 5 Feb 2015 22:09

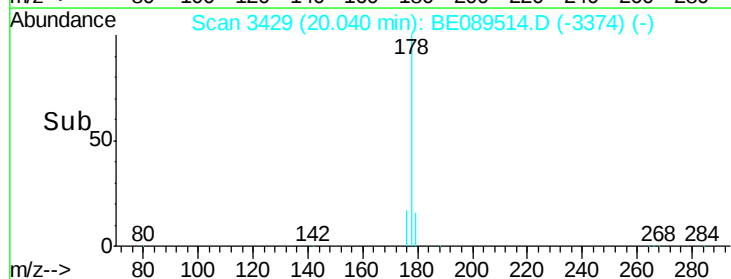
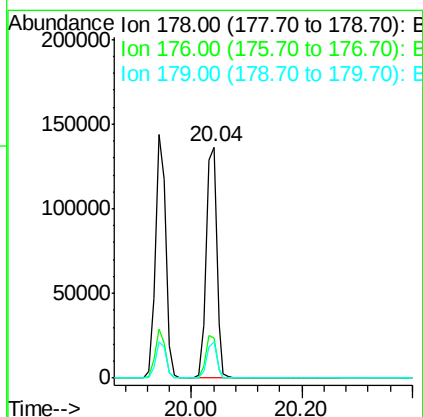
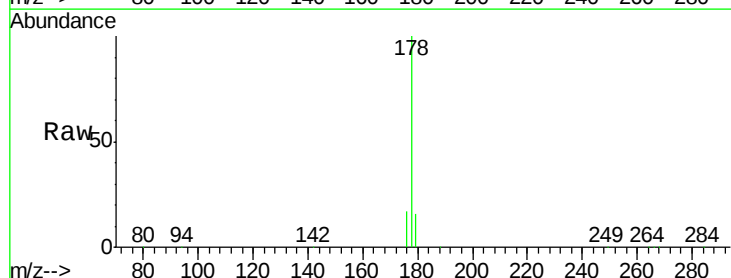
Instrument :
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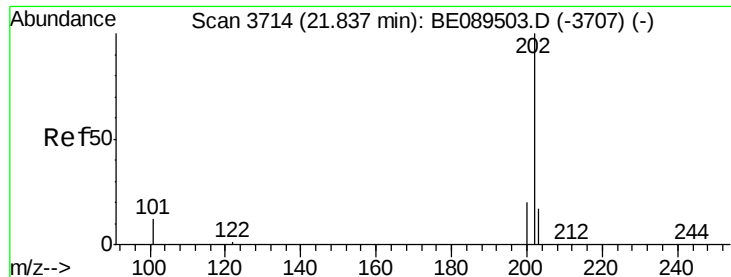
Tgt Ion	Ratio	Lower	Upper
178	100		
176	19.3	15.4	23.0
179	15.1	12.4	18.6



#14
Anthracene
Concen: 6.48 ng
RT: 20.04 min Scan# 3429
Delta R.T. 0.00 min
Lab File: BE089514.D
Acq: 5 Feb 2015 22:09

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

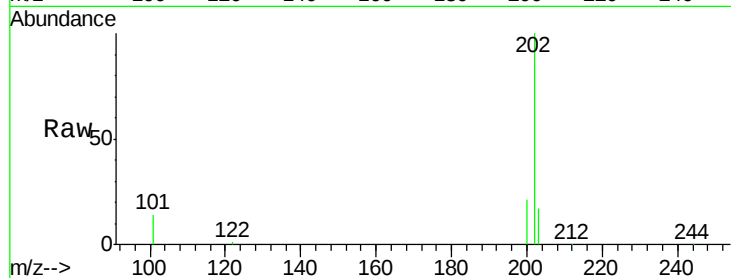




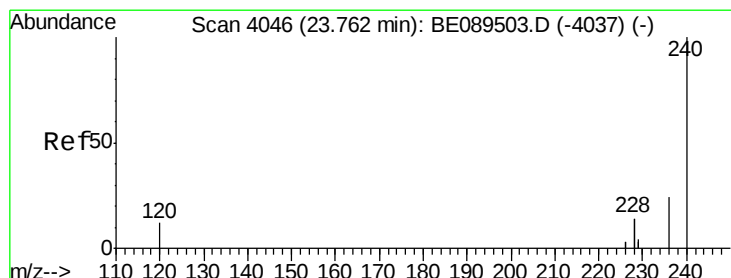
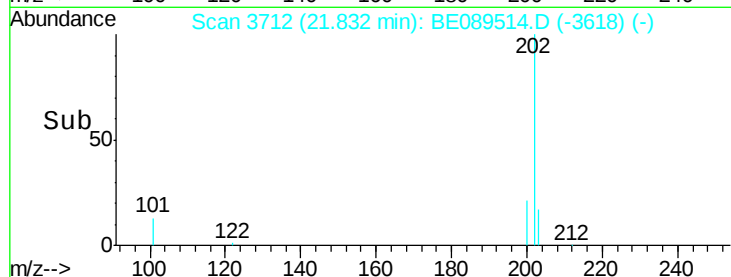
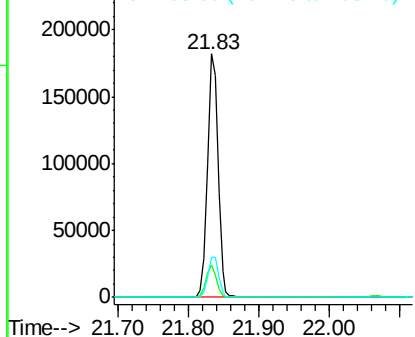
#15
 Fluoranthene
 Concen: 6.42 ng
 RT: 21.83 min Scan# 3712
 Delta R.T. -0.00 min
 Lab File: BE089514.D
 Acq: 5 Feb 2015 22:09

Instrument :
 BNA_E
 ClientSampleId :
 PB81591BSD

Tgt Ion: 202 Resp: 187707
 Ion Ratio Lower Upper
 202 100
 101 12.9 11.3 16.9
 203 17.2 13.8 20.6

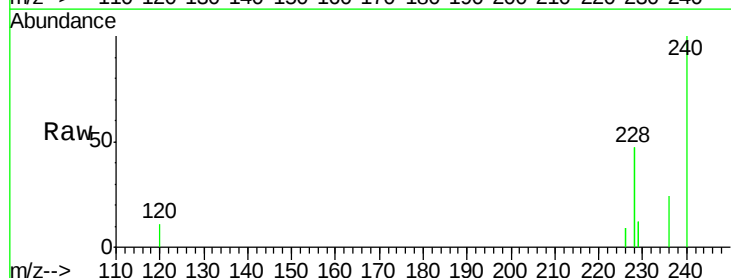


Abundance Ion 202.00 (201.70 to 202.70): E
 Ion 101.00 (100.70 to 101.70): E
 Ion 203.00 (202.70 to 203.70): E

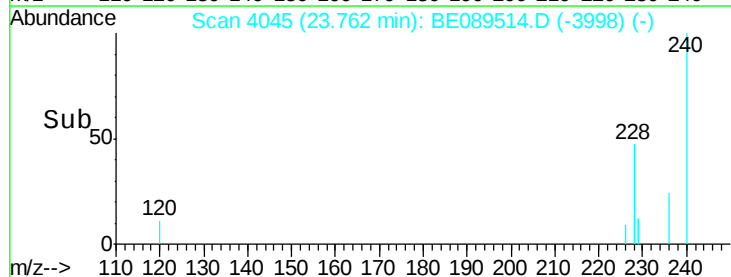
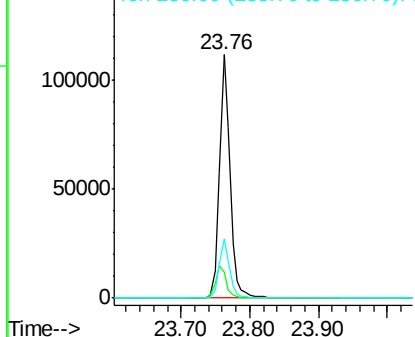


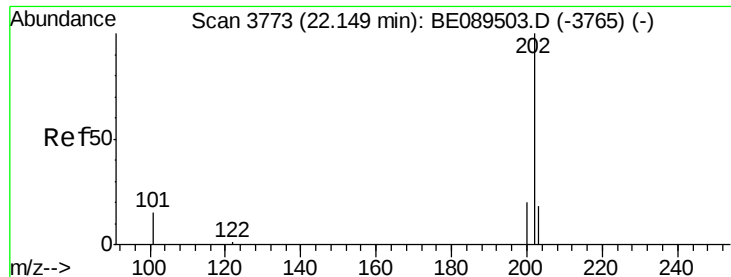
#16
 Chrysene-d12
 Concen: 5.00 ng
 RT: 23.76 min Scan# 4045
 Delta R.T. 0.00 min
 Lab File: BE089514.D
 Acq: 5 Feb 2015 22:09

Tgt Ion: 240 Resp: 116856
 Ion Ratio Lower Upper
 240 100
 120 10.6 9.6 14.4
 236 24.2 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

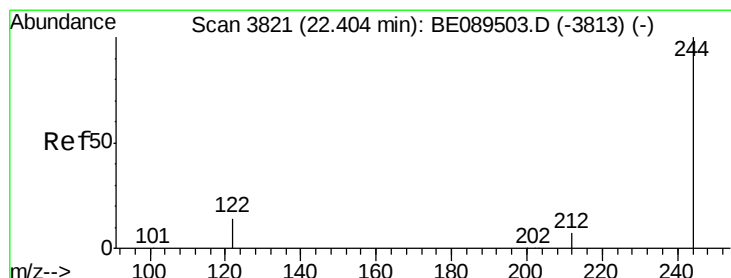
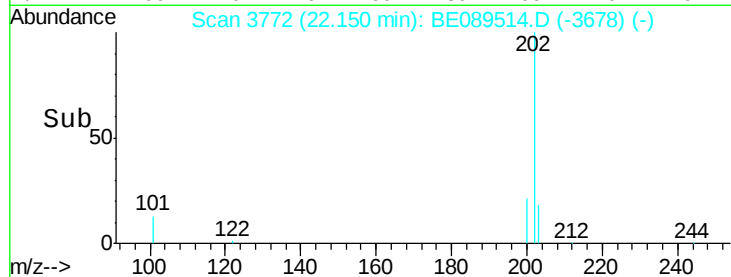
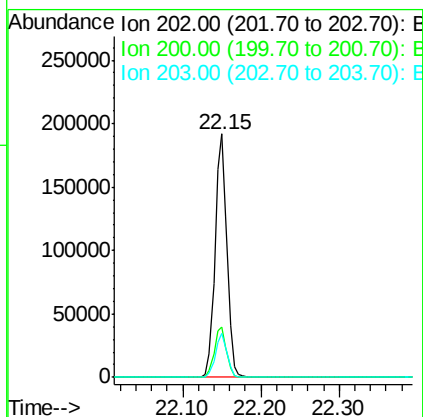
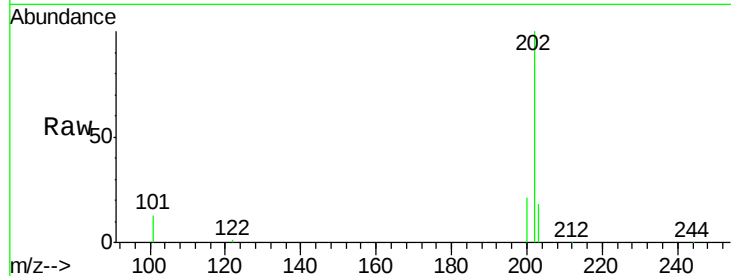




#17
 Pyrene
 Concen: 6.04 ng
 RT: 22.15 min Scan# 3772
 Delta R.T. 0.00 min
 Lab File: BE089514.D
 Acq: 5 Feb 2015 22:09

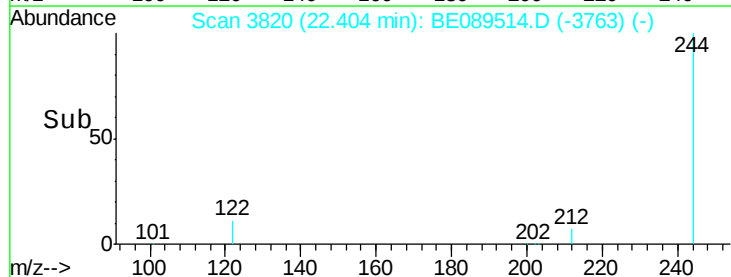
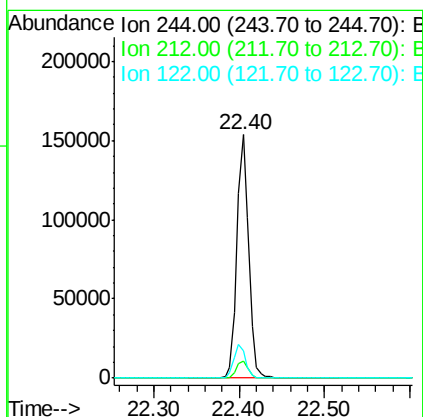
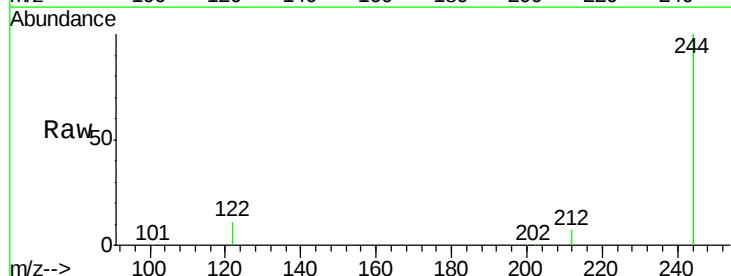
Instrument :
 BNA_E
 ClientSampleId :
 PB81591BSD

Tgt Ion: 202 Resp: 201624
 Ion Ratio Lower Upper
 202 100
 200 21.0 16.5 24.7
 203 17.9 14.0 21.0



#18
 Terphenyl-d14
 Concen: 7.30 ng
 RT: 22.40 min Scan# 3820
 Delta R.T. 0.00 min
 Lab File: BE089514.D
 Acq: 5 Feb 2015 22:09

Tgt Ion: 244 Resp: 148447
 Ion Ratio Lower Upper
 244 100
 212 7.1 5.5 8.3
 122 11.4 11.1 16.7





#19

Benzo(a)anthracene

Concen: 6.41 ng

RT: 23.75 min Scan# 4043

Delta R.T. 0.00 min

Lab File: BE089514.D

Acq: 5 Feb 2015 22:09

Instrument :

BNA_E

ClientSampleId :

PB81591BSD

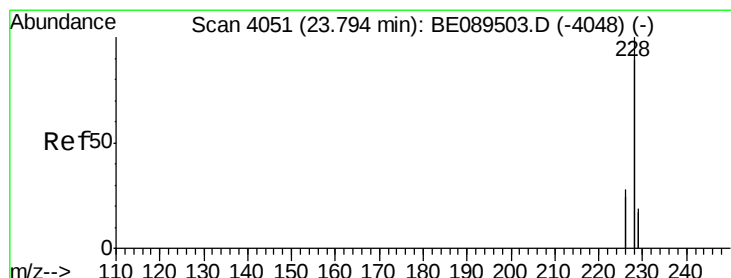
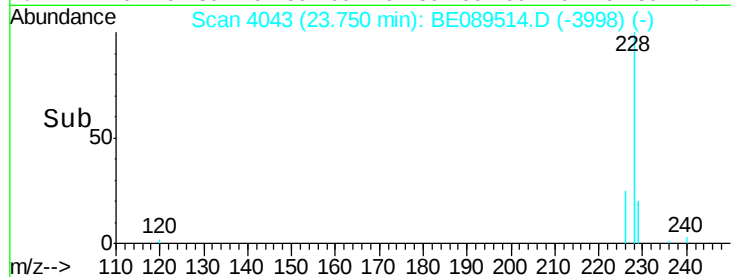
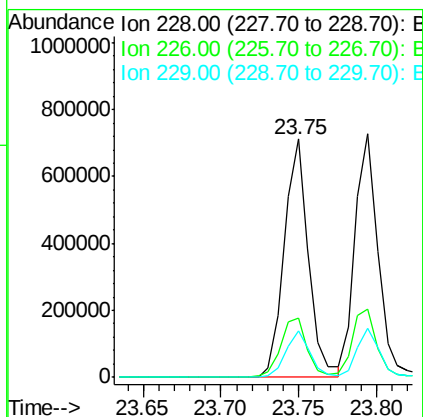
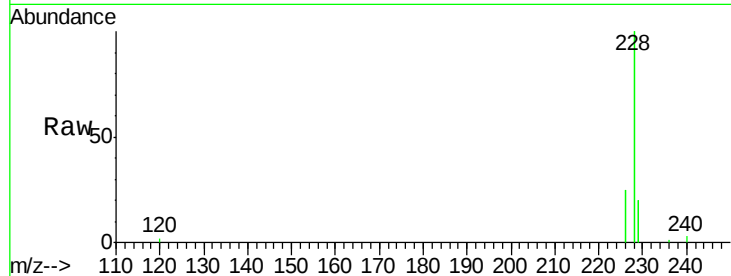
Tgt Ion:228 Resp: 774339

Ion Ratio Lower Upper

228 100

226 25.1 21.0 31.6

229 19.8 15.5 23.3



#20

Chrysene

Concen: 6.46 ng

RT: 23.79 min Scan# 4050

Delta R.T. 0.00 min

Lab File: BE089514.D

Acq: 5 Feb 2015 22:09

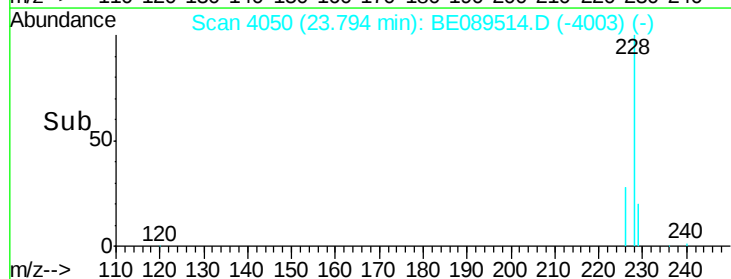
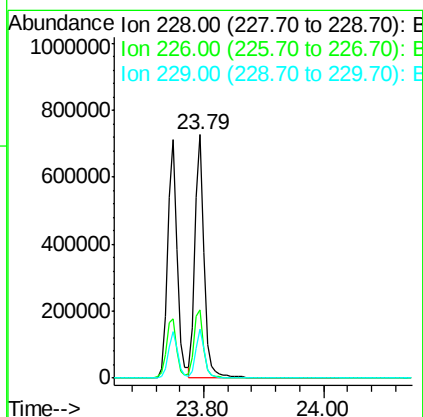
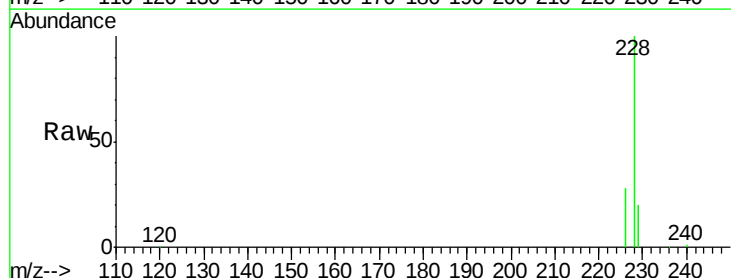
Tgt Ion:228 Resp: 771492

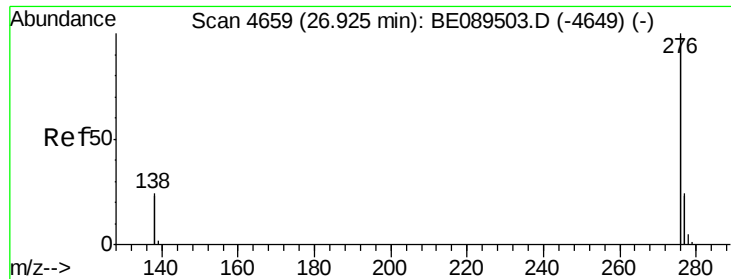
Ion Ratio Lower Upper

228 100

226 27.9 22.3 33.5

229 19.9 15.4 23.0





#21

Indeno(1,2,3-cd)pyrene

Concen: 6.96 ng

RT: 26.93 min Scan# 4658

Delta R.T. 0.00 min

Lab File: BE089514.D

Acq: 5 Feb 2015 22:09

Instrument :

BNA_E

ClientSampleId :

PB81591BSD

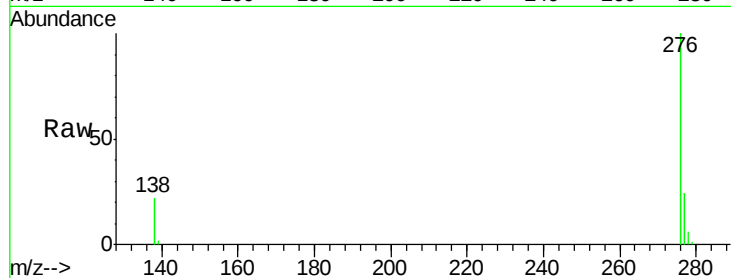
Tgt Ion:276 Resp: 920201

Ion Ratio Lower Upper

276 100

138 26.8 23.2 34.8

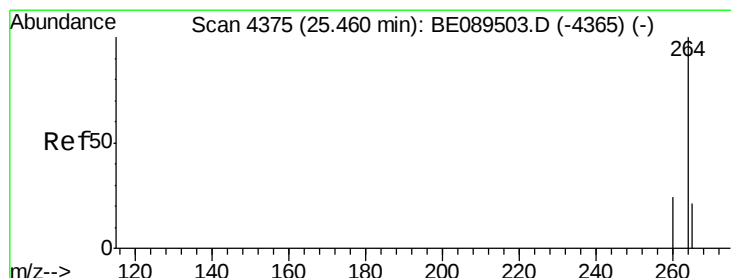
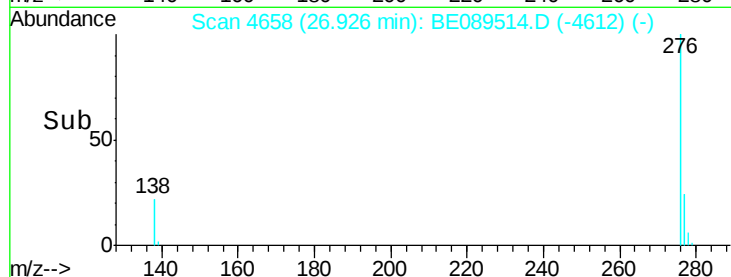
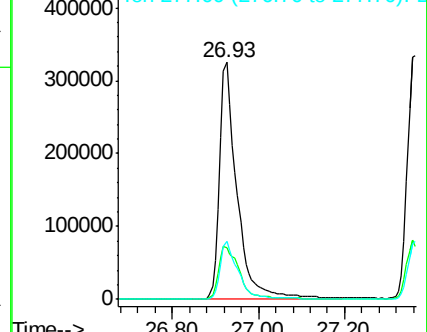
277 25.3 19.8 29.6



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# 4373

Delta R.T. -0.00 min

Lab File: BE089514.D

Acq: 5 Feb 2015 22:09

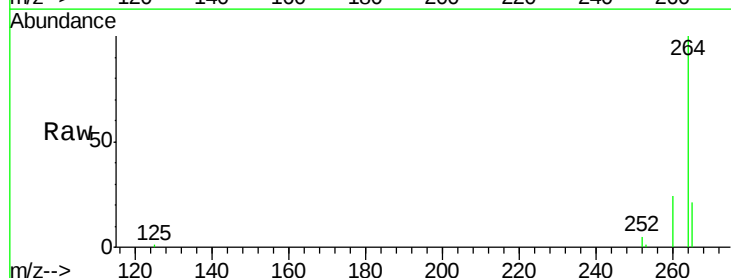
Tgt Ion:264 Resp: 117520

Ion Ratio Lower Upper

264 100

260 24.4 19.0 28.6

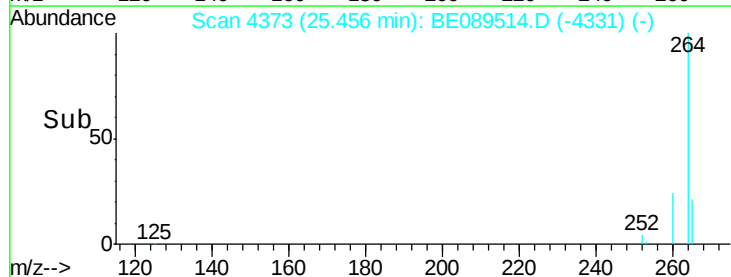
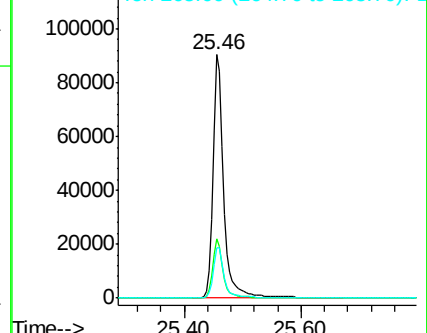
265 20.8 17.0 25.6



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: 6.11 ng

RT: 25.02 min Scan# 4277

Delta R.T. 0.00 min

Lab File: BE089514.D

Acq: 5 Feb 2015 22:09

Instrument :

BNA_E

ClientSampleId :

PB81591BSD

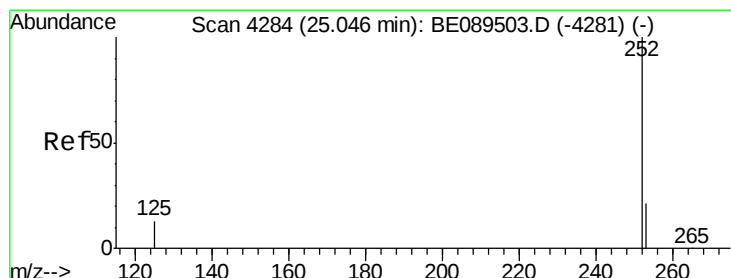
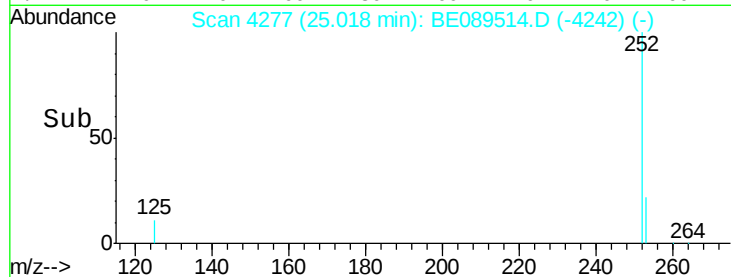
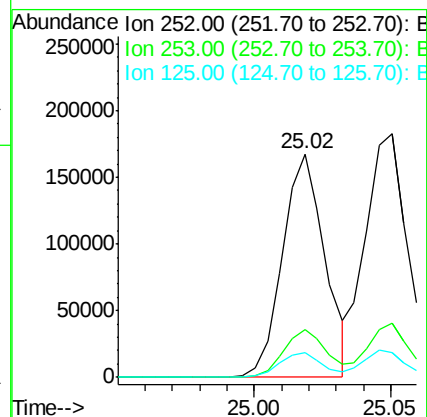
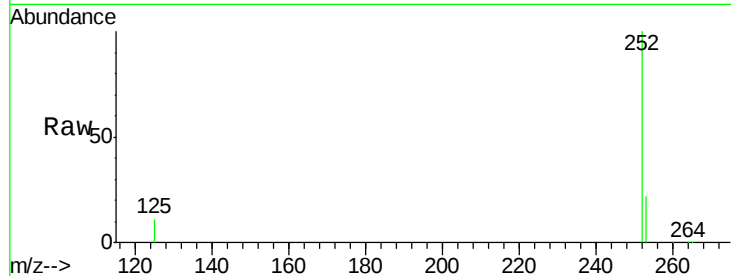
Tgt Ion:252 Resp: 181077

Ion Ratio Lower Upper

252 100

253 21.6 17.4 26.0

125 10.9 9.6 14.4



#24

Benzo(k)fluoranthene

Concen: 5.98 ng

RT: 25.05 min Scan# 4284

Delta R.T. 0.00 min

Lab File: BE089514.D

Acq: 5 Feb 2015 22:09

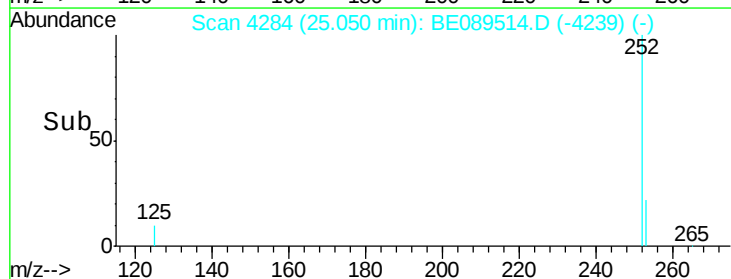
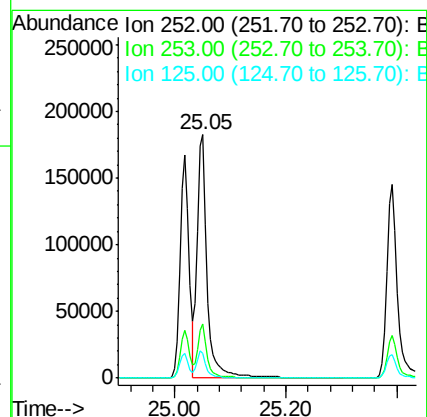
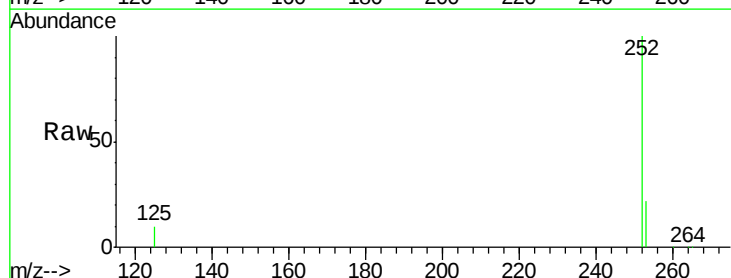
Tgt Ion:252 Resp: 224184

Ion Ratio Lower Upper

252 100

253 22.3 17.0 25.6

125 10.4 10.2 15.4





#25

Benzo(a)pyrene

Concen: 6.64 ng

RT: 25.39 min Scan# 4359

Delta R.T. 0.00 min

Lab File: BE089514.D

Acq: 5 Feb 2015 22:09

Instrument :

BNA_E

ClientSampleId :

PB81591BSD

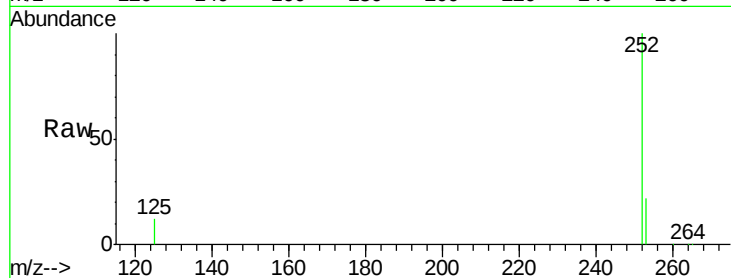
Tgt Ion: 252 Resp: 194686

Ion Ratio Lower Upper

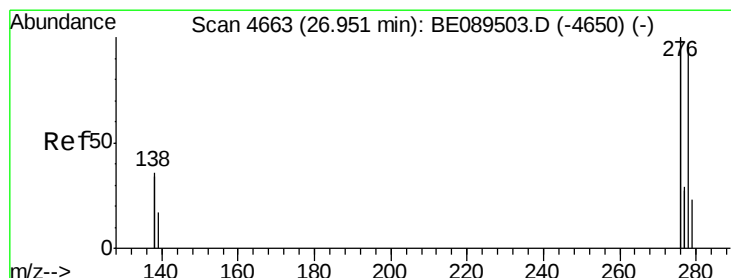
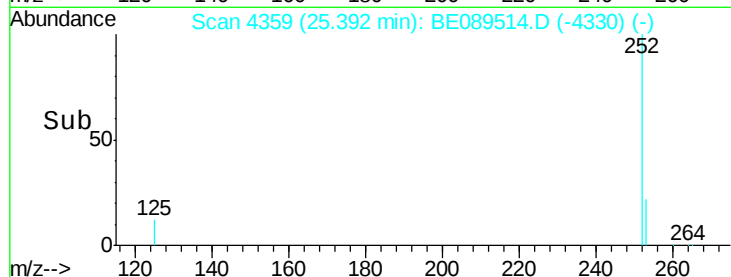
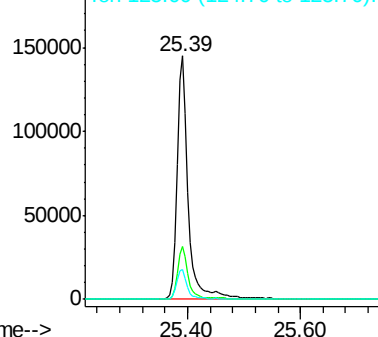
252 100

253 21.8 17.8 26.6

125 12.0 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: 6.76 ng

RT: 26.95 min Scan# 4662

Delta R.T. 0.00 min

Lab File: BE089514.D

Acq: 5 Feb 2015 22:09

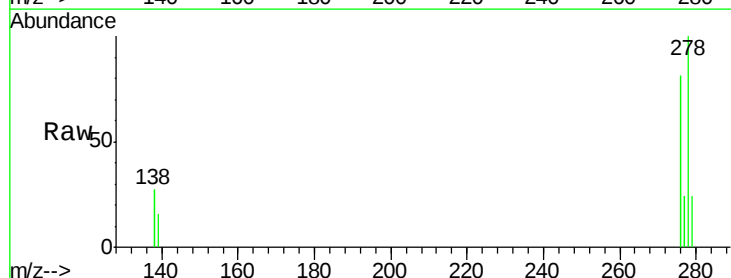
Tgt Ion: 278 Resp: 204525

Ion Ratio Lower Upper

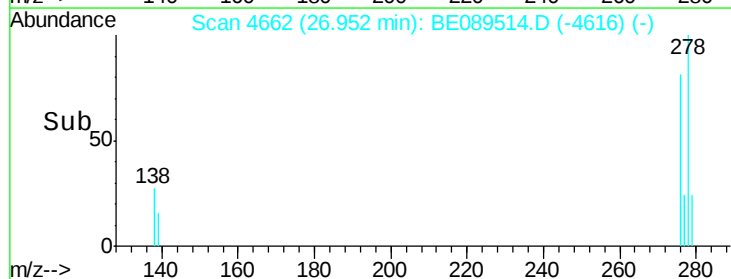
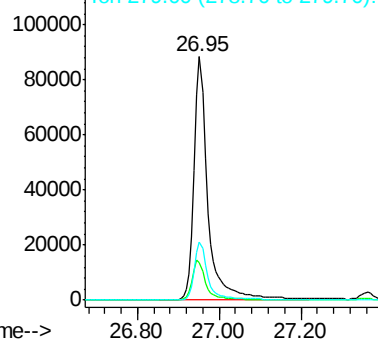
278 100

139 15.7 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: 6.82 ng

RT: 27.36 min Scan# 4725

Delta R.T. 0.01 min

Lab File: BE089514.D

Acq: 5 Feb 2015 22:09

Instrument :

BNA_E

ClientSampleId :

PB81591BSD

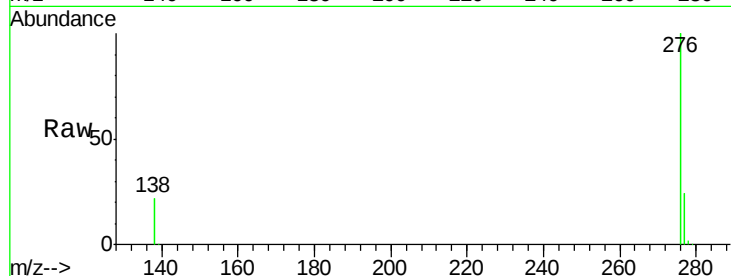
Tgt Ion: 276 Resp: 784821

Ion Ratio Lower Upper

276 100

277 24.0 18.6 28.0

138 21.8 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

