

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE102414\
 Data File : BE088219.D
 Acq On : 24 Oct 2014 18:57
 Operator : TP/JJ
 Sample : PB79823BSD
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 PB79823BSD

Quant Time: Oct 27 13:12:36 2014
 Quant Method : Z:\HPCHEM1\BNA_E\METHODS\SIM-PAH-BE102414.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Oct 27 13:04:40 2014
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.11	152	42598	5.00	ng	0.00
3) Naphthalene-d8	8.68	136	163006	5.00	ng	0.00
7) Acenaphthene-d10	10.83	164	72636	5.00	ng	0.00
12) Phenanthrene-d10	12.94	188	125219	5.00	ng	0.00
16) Chrysene-d12	18.35	240	68777	5.00	ng	0.00
22) Perylene-d12	21.40	264	63539	5.00	ng	0.00

System Monitoring Compounds						
4) Nitrobenzene-d5	7.80	82	87348	7.20	ng	0.00
8) 2-Fluorobiphenyl	10.02	172	147531	7.28	ng	0.00
18) Terphenyl-d14	16.11	244	97868	8.69	ng	0.00

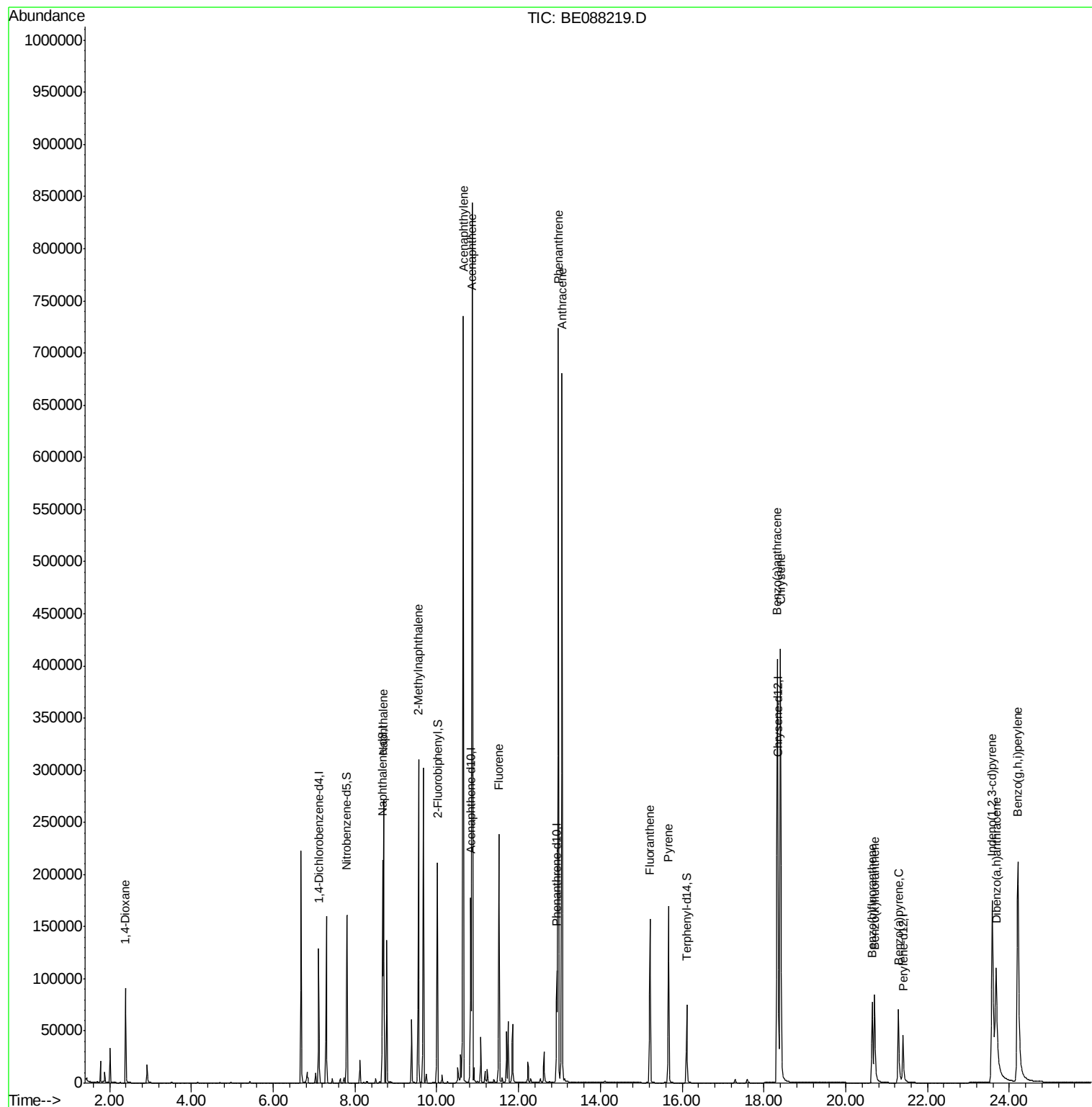
Target Compounds				Qvalue		
2) 1,4-Dioxane	2.39	88	46670	7.86	ng	98
5) Naphthalene	8.70	128	241621	7.28	ng	97
6) 2-Methylnaphthalene	9.55	142	155607	7.79	ng	95
9) Acenaphthylene	10.65	152	827335	7.62	ng	100
10) Acenaphthene	10.86	154	118905	6.92	ng	95
11) Fluorene	11.52	166	130206	7.43	ng	100
13) Phenanthrene	12.97	178	885560	7.33	ng	98
14) Anthracene	13.06	178	728230	8.17	ng	99
15) Fluoranthene	15.21	202	156826	8.56	ng	99
17) Pyrene	15.67	202	166763	8.84	ng	99
19) Benzo(a)anthracene	18.33	228	500145	9.24	ng	99
20) Chrysene	18.40	228	515862	8.39	ng	99
21) Indeno(1,2,3-cd)pyrene	23.58	276	334534	5.22	ng	# 73
23) Benzo(b)fluoranthene	20.65	252	111954	8.26	ng	98
24) Benzo(k)fluoranthene	20.70	252	137487	8.38	ng	99
25) Benzo(a)pyrene	21.29	252	110483	8.22	ng	98
26) Dibenzo(a,h)anthracene	23.68	278	97580	7.57	ng	95
27) Benzo(g,h,i)perylene	24.21	276	457877	8.99	ng	97

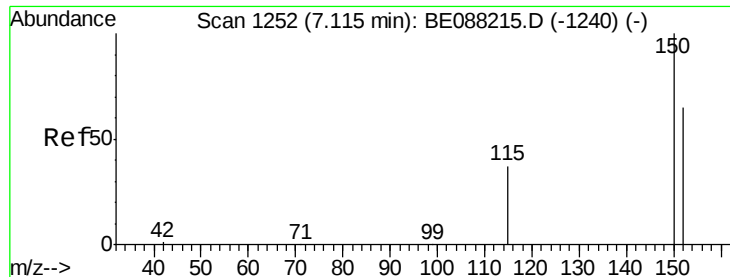
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE102414\
Data File : BE088219.D
Acq On : 24 Oct 2014 18:57
Operator : TP/JJ
Sample : PB79823BSD
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_E
ClientSampleId :
PB79823BSD

Quant Time: Oct 27 13:12:36 2014
Quant Method : Z:\HPCHEM1\BNA_E\METHODS\SIM-PAH-BE102414.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Oct 27 13:04:40 2014
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 7.11 min Scan# 1252

Delta R.T. -0.00 min

Lab File: BE088219.D

Acq: 24 Oct 2014 18:57

Instrument :

BNA_E

ClientSampleId :

PB79823BSD

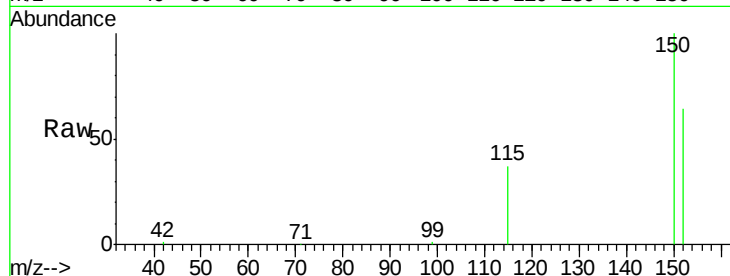
Tgt Ion:152 Resp: 42598

Ion Ratio Lower Upper

152 100

150 156.8 123.2 184.8

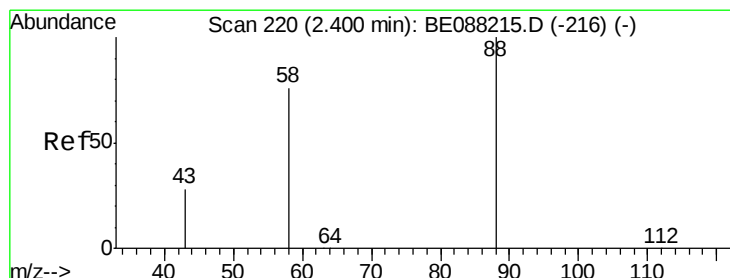
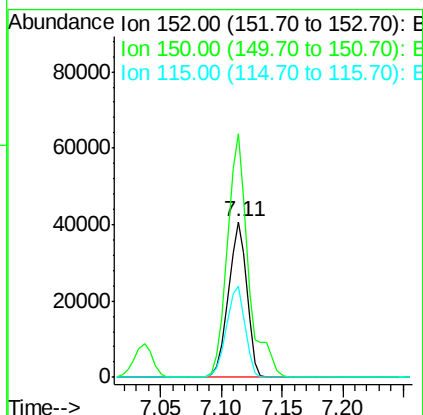
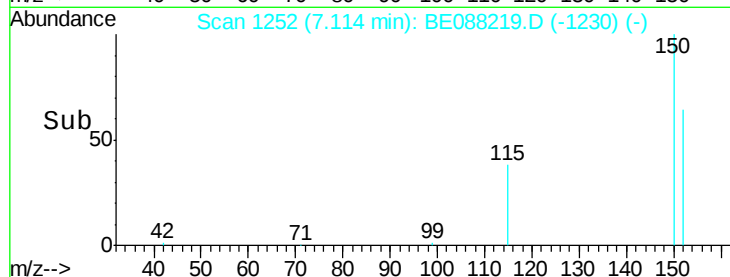
115 58.8 45.3 67.9



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

1,4-Dioxane

Concen: 7.86 ng

RT: 2.39 min Scan# 218

Delta R.T. -0.01 min

Lab File: BE088219.D

Acq: 24 Oct 2014 18:57

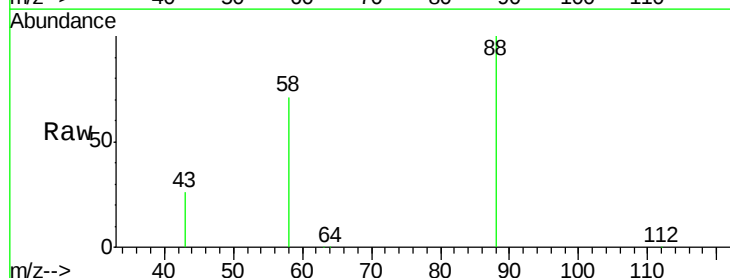
Tgt Ion: 88 Resp: 46670

Ion Ratio Lower Upper

88 100

58 75.2 59.0 88.4

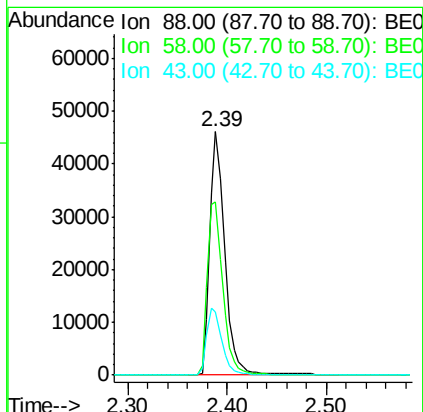
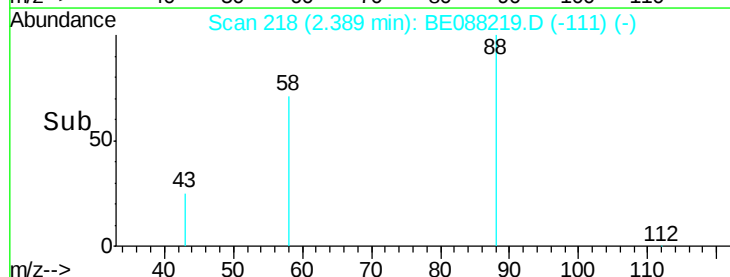
43 28.4 21.9 32.9

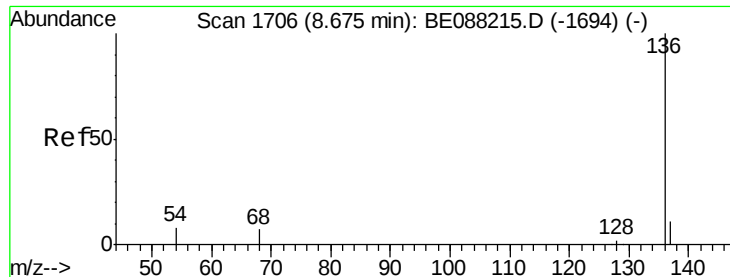


Abundance Ion 88.00 (87.70 to 88.70): BE0

Ion 58.00 (57.70 to 58.70): BE0

Ion 43.00 (42.70 to 43.70): BE0

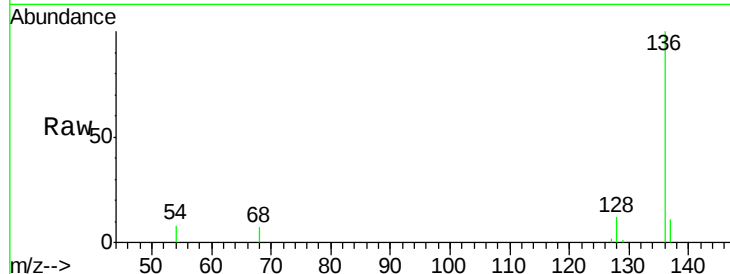




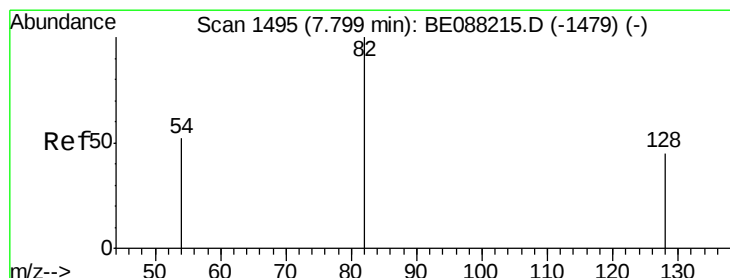
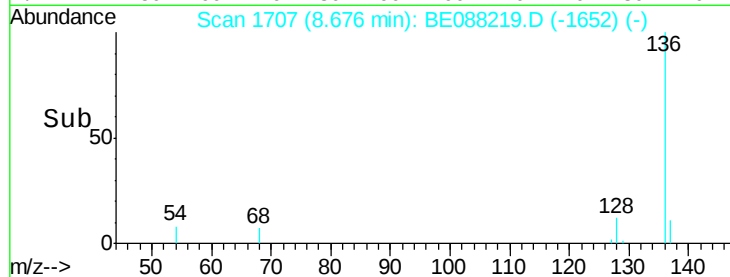
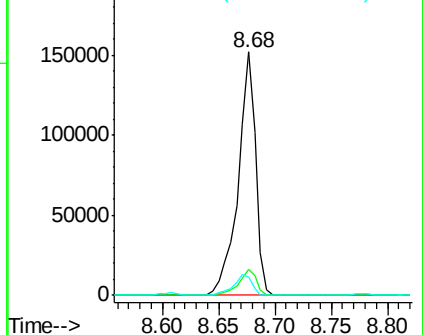
#3
Naphthalene-d8
Concen: 5.00 ng
RT: 8.68 min Scan# 1707
Delta R.T. 0.00 min
Lab File: BE088219.D
Acq: 24 Oct 2014 18:57

Instrument :
BNA_E
ClientSampleId :
PB79823BSD

Tgt Ion: 136 Resp: 163006
Ion Ratio Lower Upper
136 100
137 10.9 8.7 13.1
54 7.8 6.1 9.1

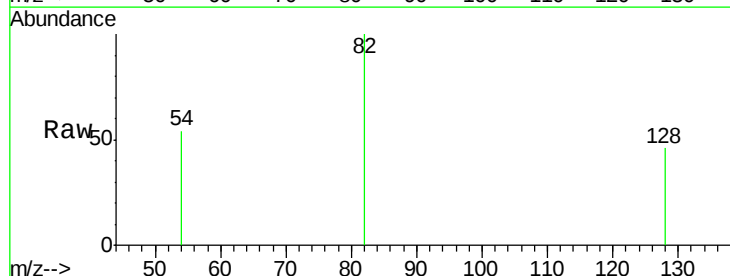


Abundance Ion 136.00 (135.70 to 136.70): BE0
Ion 137.00 (136.70 to 137.70): BE0
Ion 54.00 (53.70 to 54.70): BE0

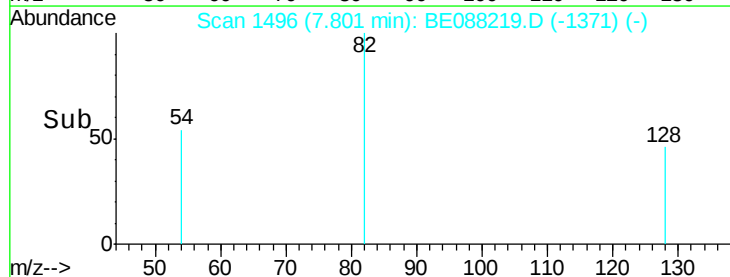
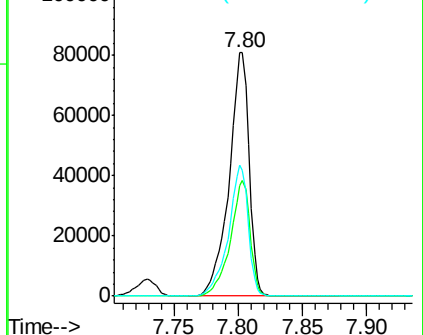


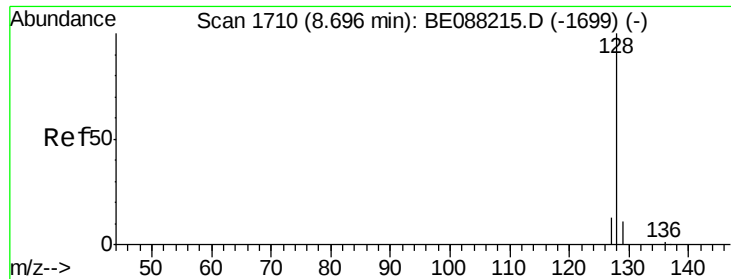
#4
Nitrobenzene-d5
Concen: 7.20 ng
RT: 7.80 min Scan# 1496
Delta R.T. 0.00 min
Lab File: BE088219.D
Acq: 24 Oct 2014 18:57

Tgt Ion: 82 Resp: 87348
Ion Ratio Lower Upper
82 100
128 45.6 36.2 54.2
54 53.7 41.8 62.8



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





#5

Naphthalene

Concen: 7.28 ng

RT: 8.70 min Scan# 1712

Delta R.T. 0.01 min

Lab File: BE088219.D

Acq: 24 Oct 2014 18:57

Instrument :

BNA_E

ClientSampleId :

PB79823BSD

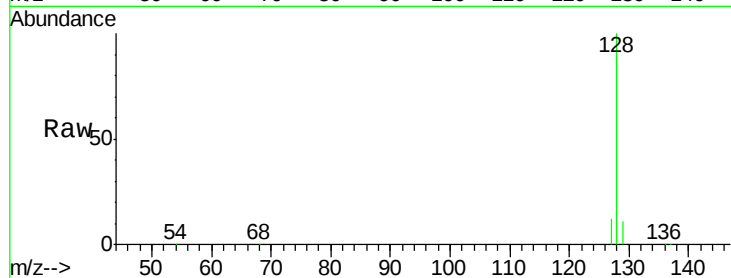
Tgt Ion:128 Resp: 241621

Ion Ratio Lower Upper

128 100

129 11.2 8.6 12.8

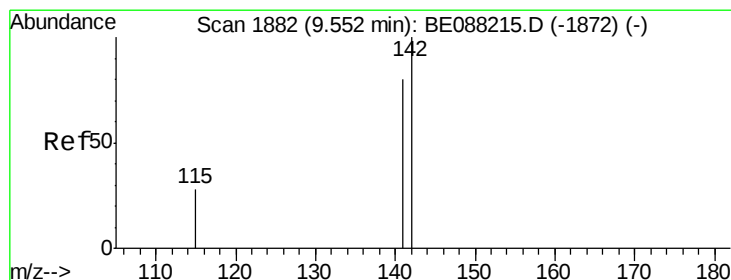
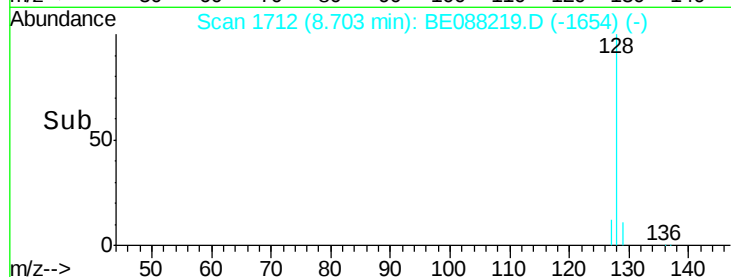
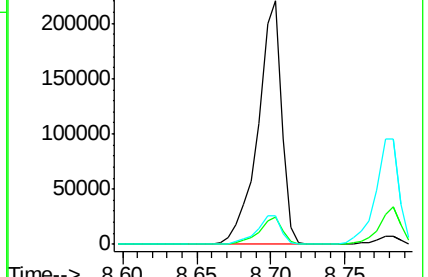
127 11.6 10.4 15.6



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



#6

2-Methylnaphthalene

Concen: 7.79 ng

RT: 9.55 min Scan# 1883

Delta R.T. -0.00 min

Lab File: BE088219.D

Acq: 24 Oct 2014 18:57

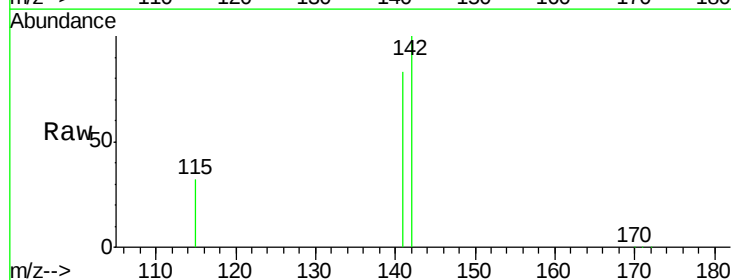
Tgt Ion:142 Resp: 155607

Ion Ratio Lower Upper

142 100

141 82.7 63.7 95.5

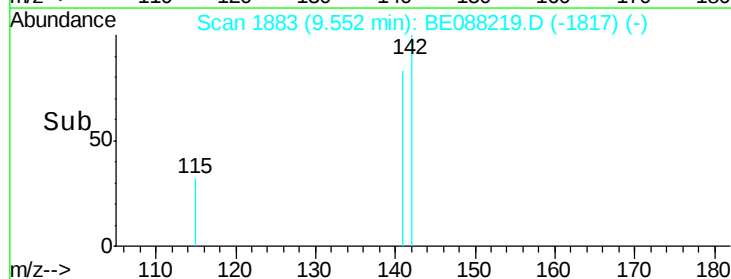
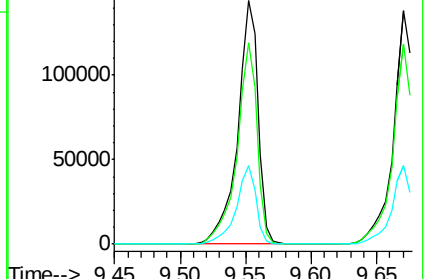
115 32.2 22.6 34.0

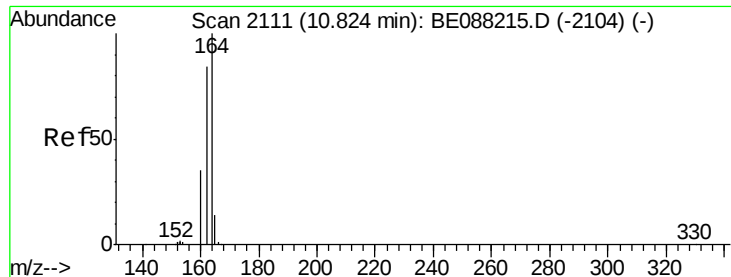


Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E





#7

Acenaphthene-d10

Concen: 5.00 ng

RT: 10.83 min Scan# 2112

Delta R.T. 0.00 min

Lab File: BE088219.D

Acq: 24 Oct 2014 18:57

Instrument :

BNA_E

ClientSampleId :

PB79823BSD

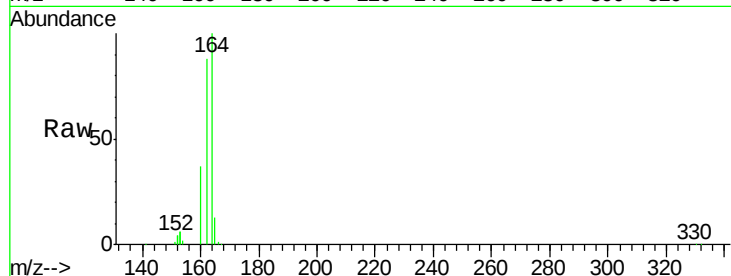
Tgt Ion:164 Resp: 72636

Ion Ratio Lower Upper

164 100

162 87.6 67.4 101.0

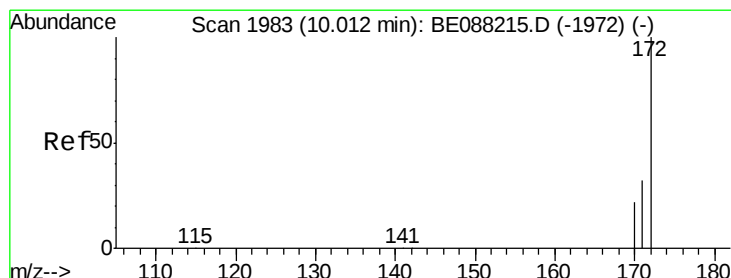
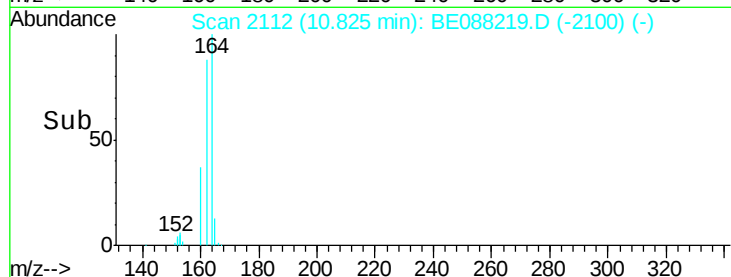
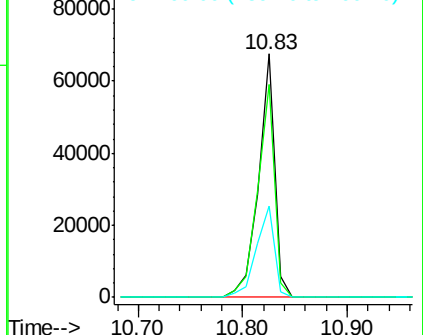
160 37.4 27.7 41.5



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



#8

2-Fluorobiphenyl

Concen: 7.28 ng

RT: 10.02 min Scan# 1985

Delta R.T. 0.00 min

Lab File: BE088219.D

Acq: 24 Oct 2014 18:57

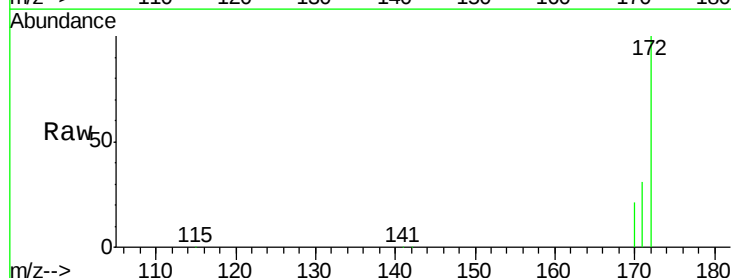
Tgt Ion:172 Resp: 147531

Ion Ratio Lower Upper

172 100

171 31.4 25.8 38.6

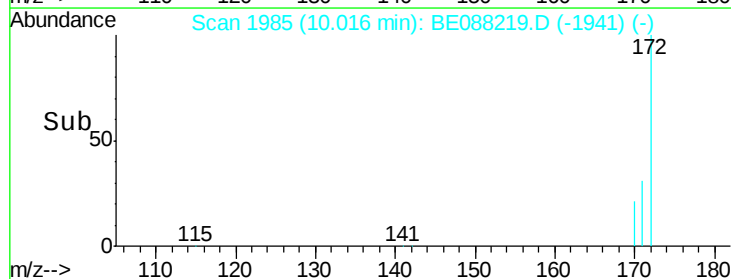
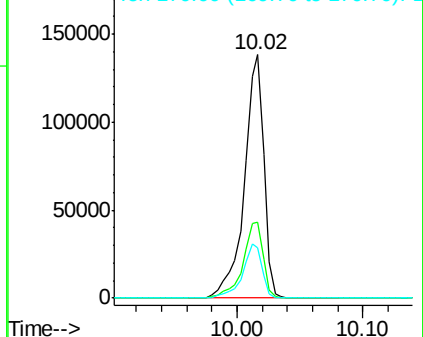
170 20.6 17.4 26.0

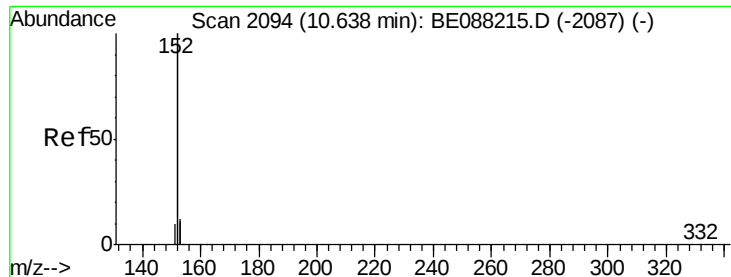


Abundance Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E





#9

Acenaphthylene

Concen: 7.62 ng

RT: 10.65 min Scan# 2096

Delta R.T. 0.01 min

Lab File: BE088219.D

Acq: 24 Oct 2014 18:57

Instrument :

BNA_E

ClientSampleId :

PB79823BSD

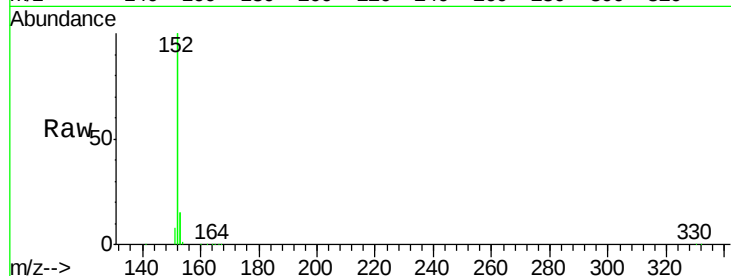
Tgt Ion:152 Resp: 827335

Ion Ratio Lower Upper

152 100

151 4.6 3.7 5.5

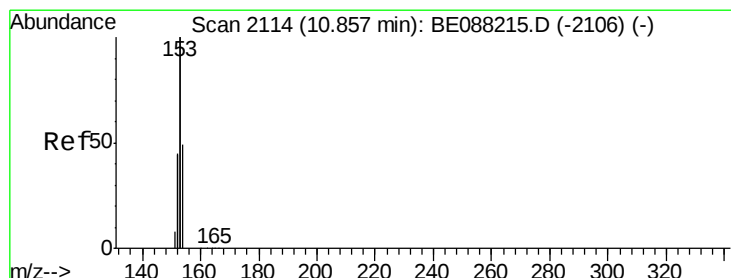
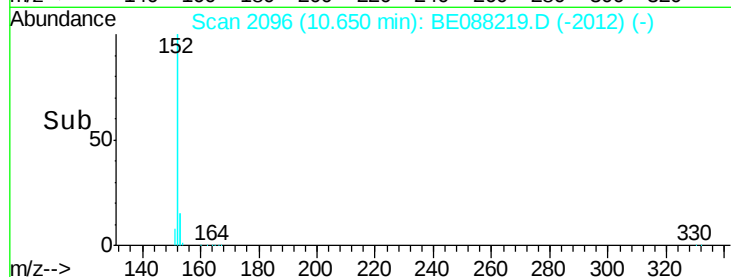
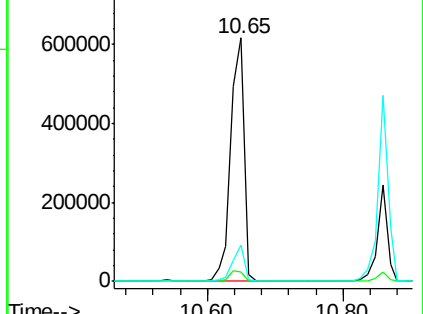
153 13.1 10.3 15.5



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E



#10

Acenaphthene

Concen: 6.92 ng

RT: 10.86 min Scan# 2115

Delta R.T. 0.00 min

Lab File: BE088219.D

Acq: 24 Oct 2014 18:57

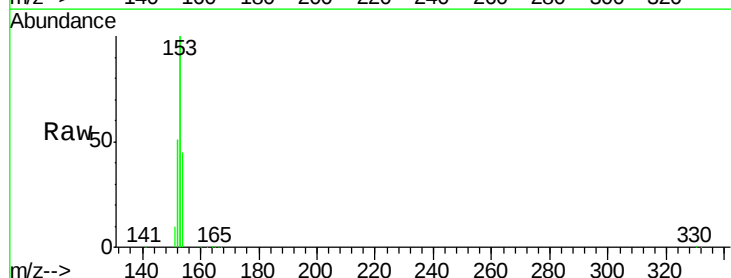
Tgt Ion:154 Resp: 118905

Ion Ratio Lower Upper

154 100

153 417.5 326.0 489.0

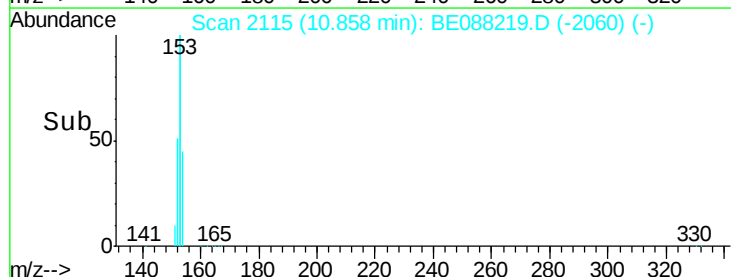
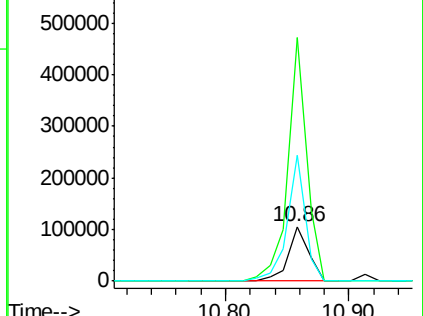
152 205.8 155.6 233.4

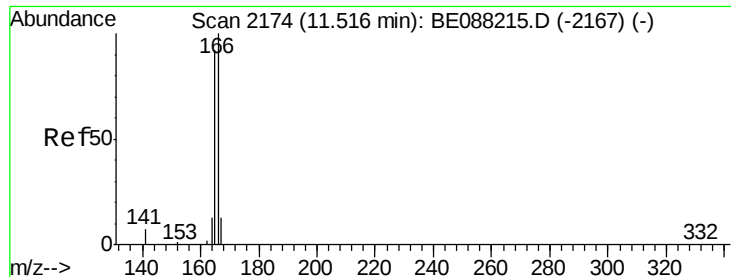


Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E





#11

Fluorene

Concen: 7.43 ng

RT: 11.52 min Scan# 2175

Delta R.T. 0.00 min

Lab File: BE088219.D

Acq: 24 Oct 2014 18:57

Instrument :

BNA_E

ClientSampleId :

PB79823BSD

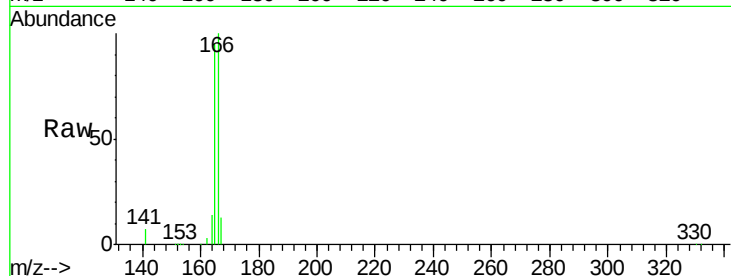
Tgt Ion:166 Resp: 130206

Ion Ratio Lower Upper

166 100

165 89.8 71.8 107.6

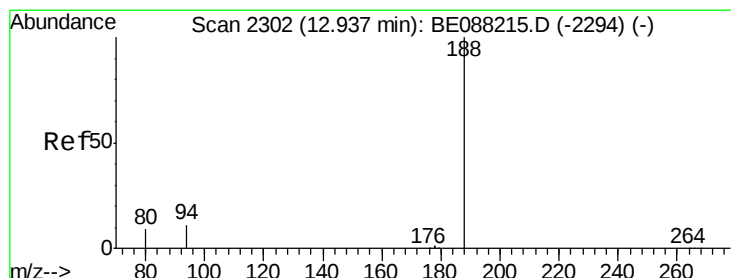
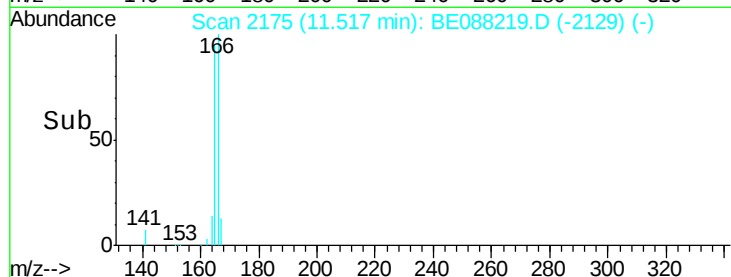
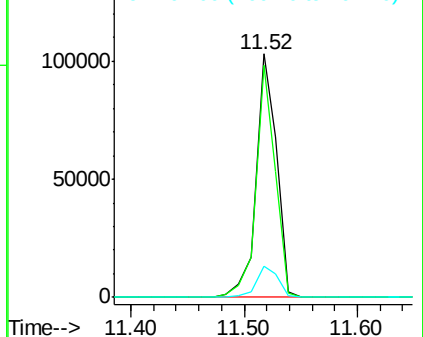
167 13.5 10.7 16.1



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



#12

Phenanthrene-d10

Concen: 5.00 ng

RT: 12.94 min Scan# 2303

Delta R.T. -0.00 min

Lab File: BE088219.D

Acq: 24 Oct 2014 18:57

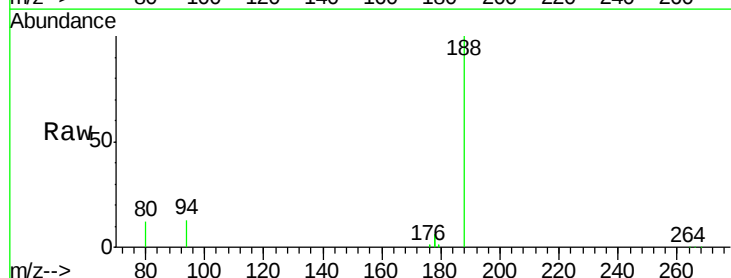
Tgt Ion:188 Resp: 125219

Ion Ratio Lower Upper

188 100

94 13.2 8.5 12.7#

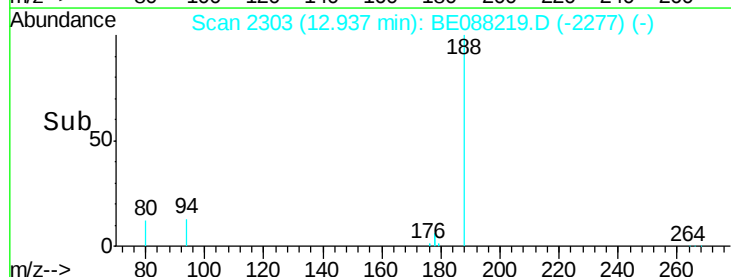
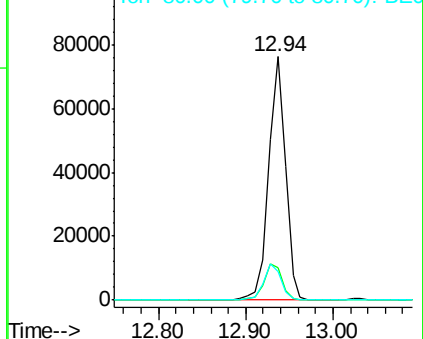
80 11.9 7.4 11.0#

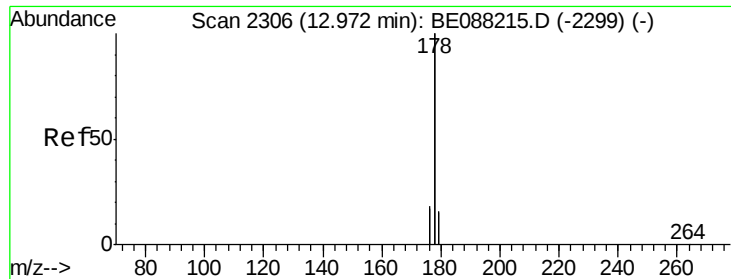


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BE0

Ion 80.00 (79.70 to 80.70): BE0





#13

Phenanthrene

Concen: 7.33 ng

RT: 12.97 min Scan# 2307

Delta R.T. -0.00 min

Lab File: BE088219.D

Acq: 24 Oct 2014 18:57

Instrument :

BNA_E

ClientSampleId :

PB79823BSD

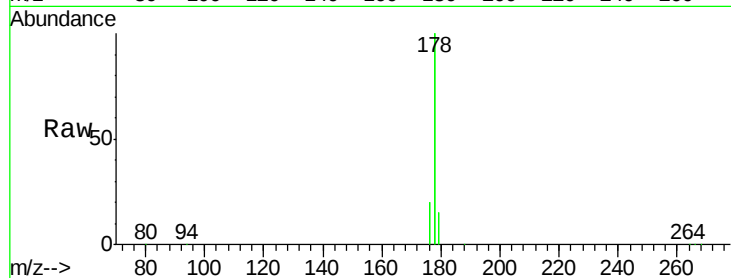
Tgt Ion:178 Resp: 885560

Ion Ratio Lower Upper

178 100

176 18.8 14.0 21.0

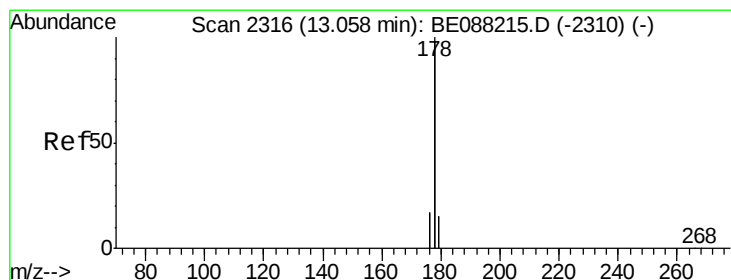
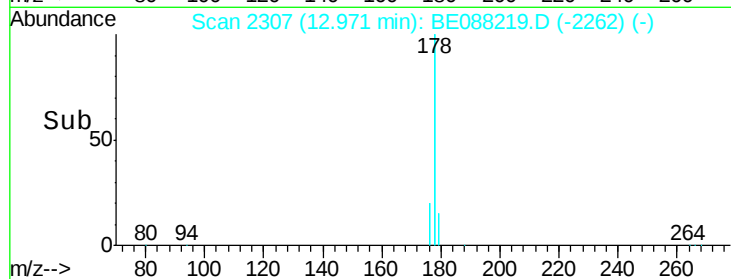
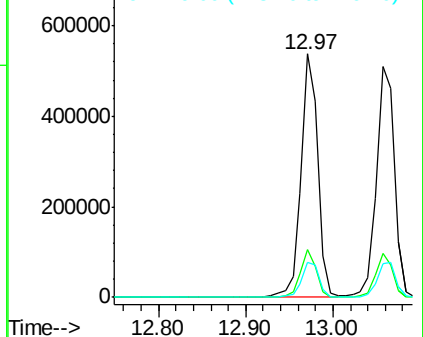
179 15.4 11.8 17.6



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: 8.17 ng

RT: 13.06 min Scan# 2317

Delta R.T. -0.00 min

Lab File: BE088219.D

Acq: 24 Oct 2014 18:57

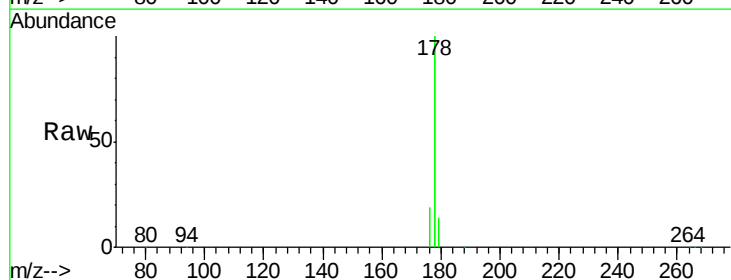
Tgt Ion:178 Resp: 728230

Ion Ratio Lower Upper

178 100

176 18.0 14.7 22.1

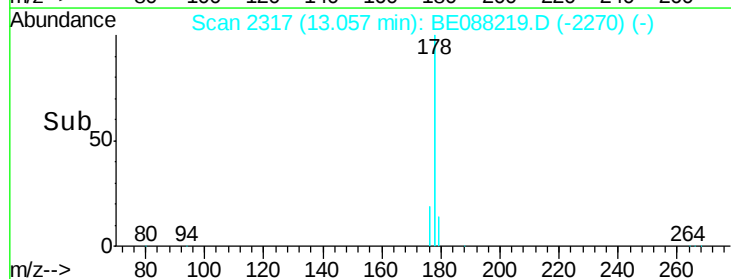
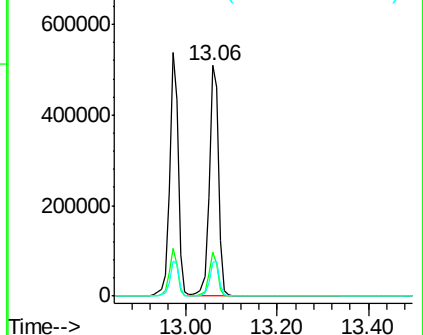
179 15.2 12.3 18.5

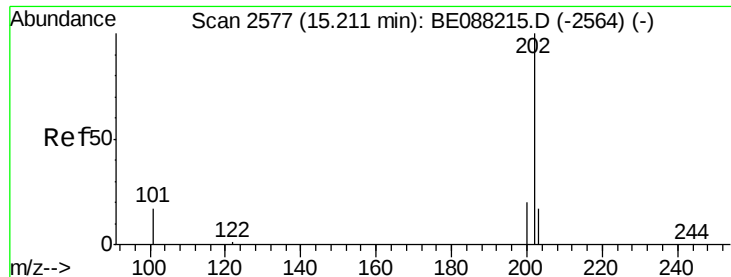


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#15

Fluoranthene

Concen: 8.56 ng

RT: 15.21 min Scan# 2578

Delta R.T. -0.00 min

Lab File: BE088219.D

Acq: 24 Oct 2014 18:57

Instrument :

BNA_E

ClientSampleId :

PB79823BSD

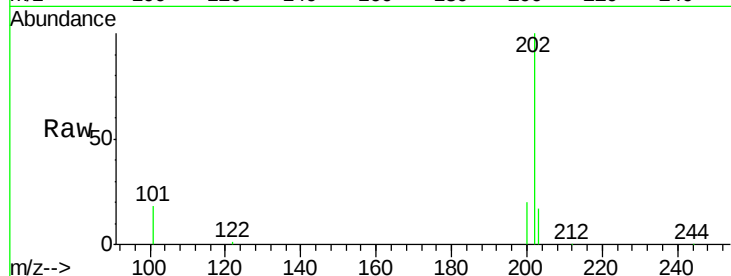
Tgt Ion:202 Resp: 156826

Ion Ratio Lower Upper

202 100

101 17.9 14.4 21.6

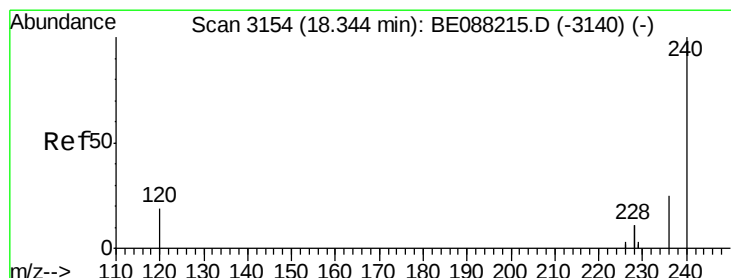
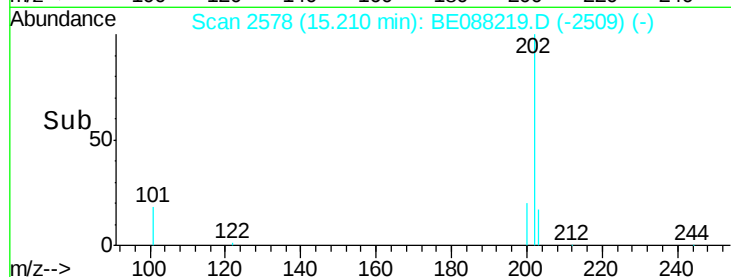
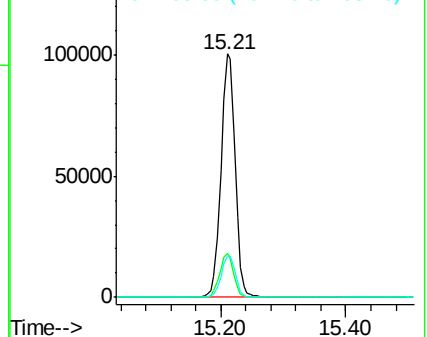
203 17.3 13.4 20.2



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: 18.35 min Scan# 3155

Delta R.T. 0.00 min

Lab File: BE088219.D

Acq: 24 Oct 2014 18:57

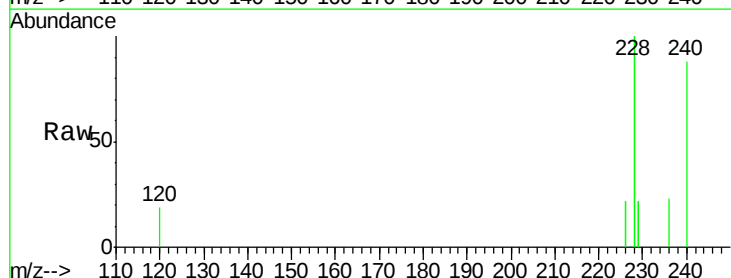
Tgt Ion:240 Resp: 68777

Ion Ratio Lower Upper

240 100

120 21.1 15.1 22.7

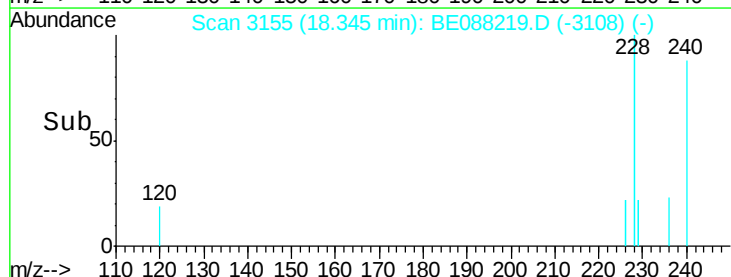
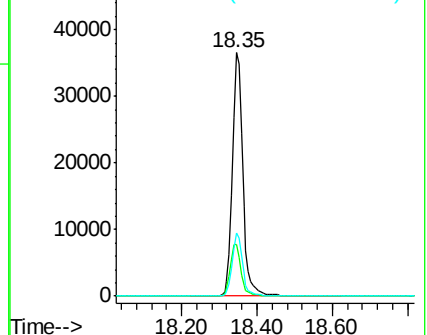
236 25.9 20.1 30.1

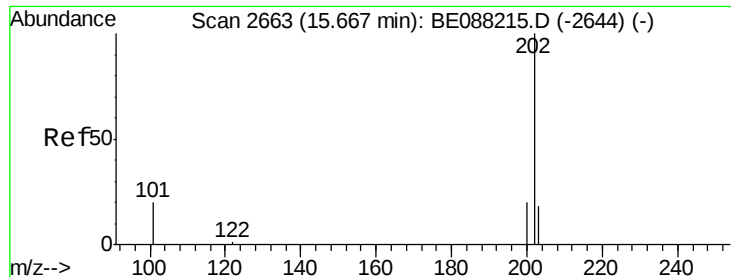


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

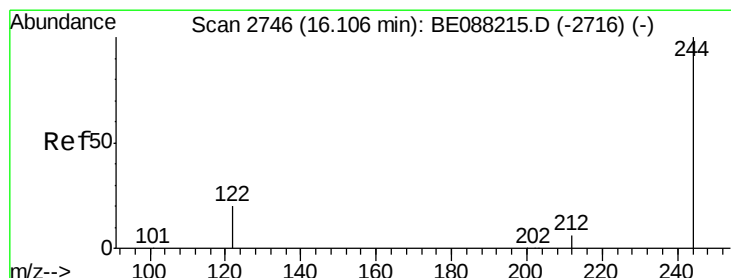
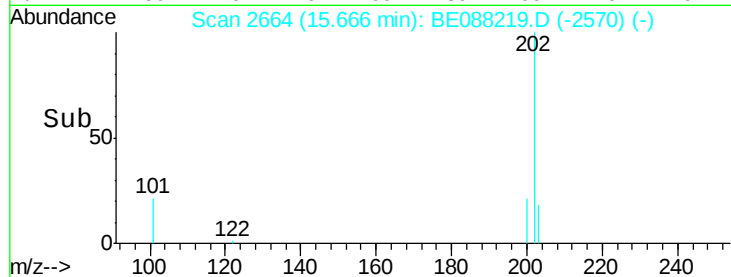
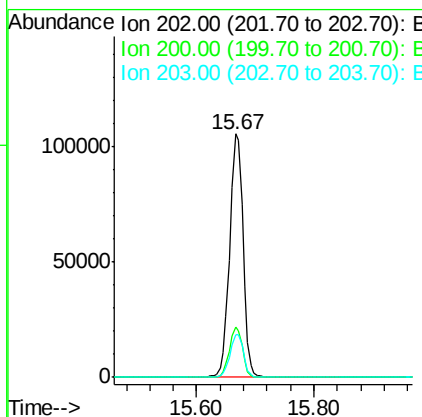
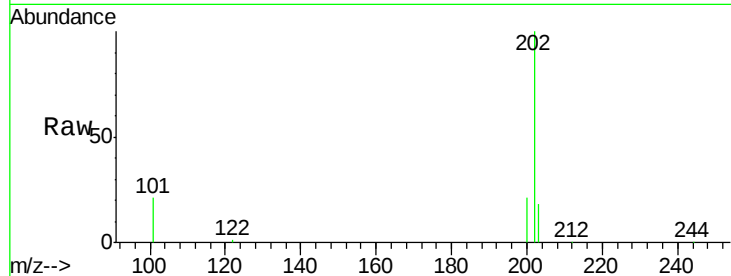




#17
 Pyrene
 Concen: 8.84 ng
 RT: 15.67 min Scan# 2664
 Delta R.T. -0.00 min
 Lab File: BE088219.D
 Acq: 24 Oct 2014 18:57

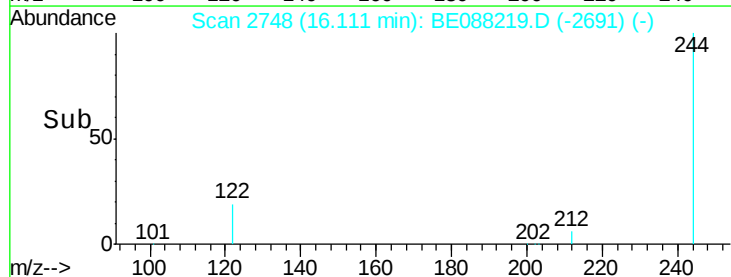
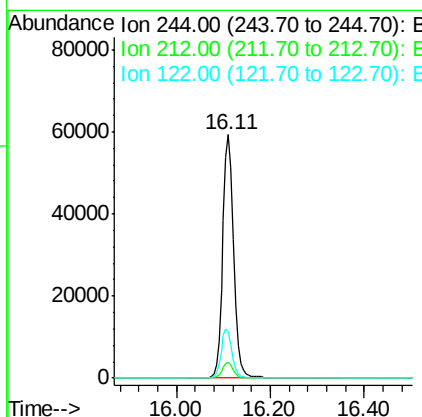
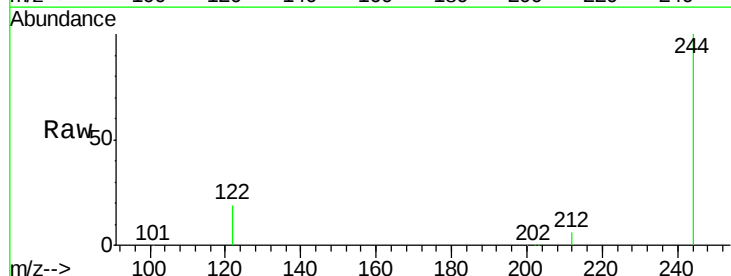
Instrument :
 BNA_E
 ClientSampleId :
 PB79823BSD

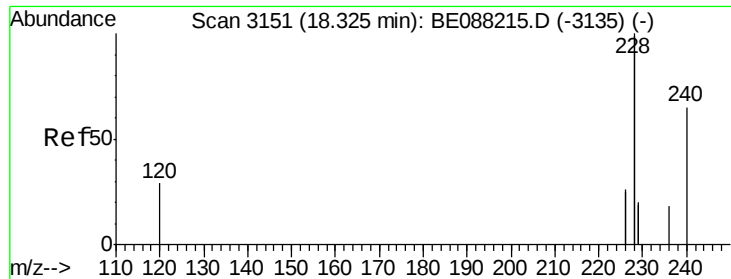
Tgt Ion: 202 Resp: 166763
 Ion Ratio Lower Upper
 202 100
 200 20.4 16.2 24.2
 203 17.9 13.8 20.8



#18
 Terphenyl-d14
 Concen: 8.69 ng
 RT: 16.11 min Scan# 2748
 Delta R.T. 0.00 min
 Lab File: BE088219.D
 Acq: 24 Oct 2014 18:57

Tgt Ion: 244 Resp: 97868
 Ion Ratio Lower Upper
 244 100
 212 6.4 5.4 8.2
 122 18.9 16.7 25.1





#19

Benzo(a)anthracene

Concen: 9.24 ng

RT: 18.33 min Scan# 3152

Delta R.T. 0.00 min

Lab File: BE088219.D

Acq: 24 Oct 2014 18:57

Instrument :

BNA_E

ClientSampleId :

PB79823BSD

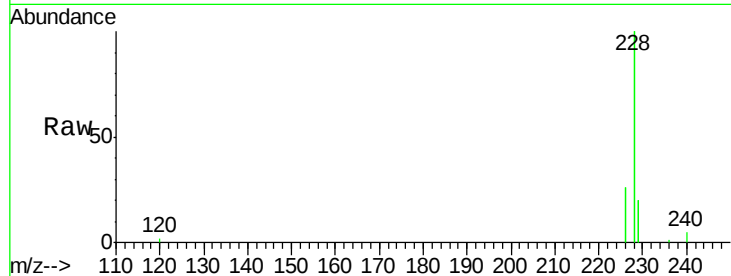
Tgt Ion:228 Resp: 500145

Ion Ratio Lower Upper

228 100

226 26.0 20.5 30.7

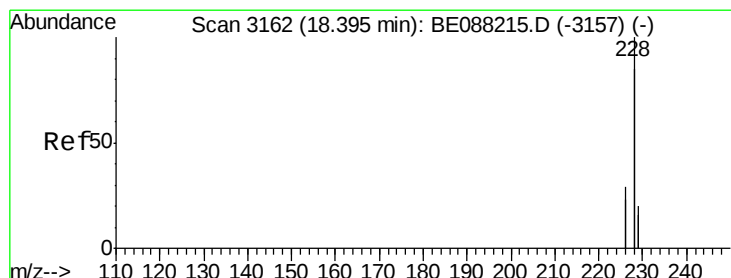
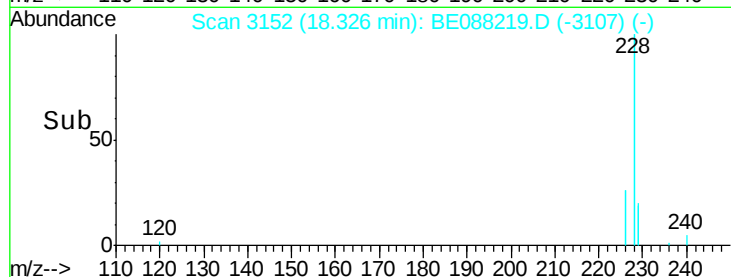
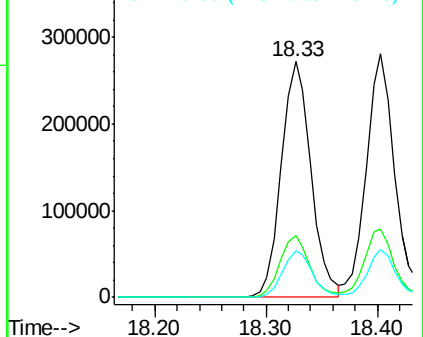
229 19.5 16.1 24.1



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#20

Chrysene

Concen: 8.39 ng

RT: 18.40 min Scan# 3164

Delta R.T. 0.01 min

Lab File: BE088219.D

Acq: 24 Oct 2014 18:57

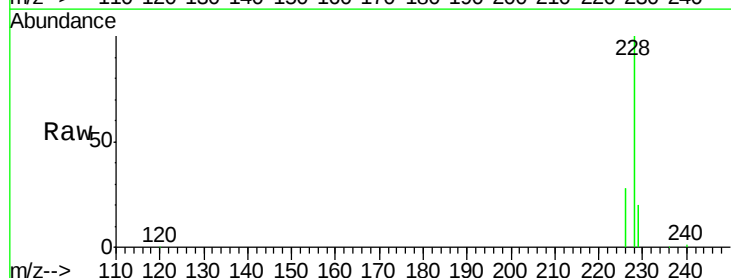
Tgt Ion:228 Resp: 515862

Ion Ratio Lower Upper

228 100

226 28.0 23.3 34.9

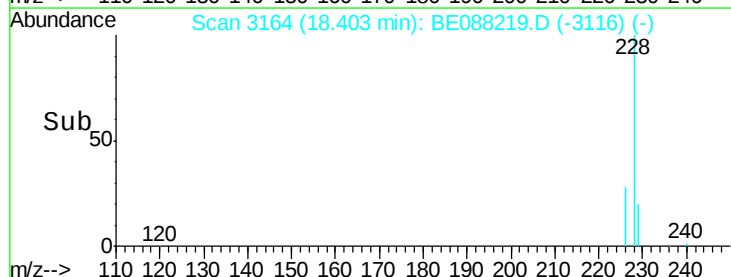
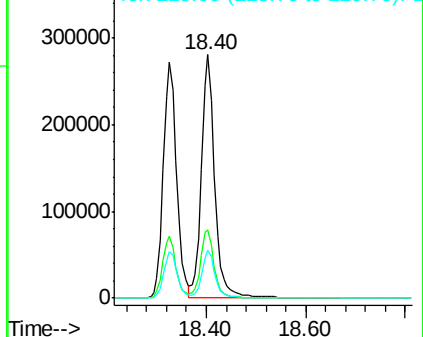
229 19.8 15.6 23.4

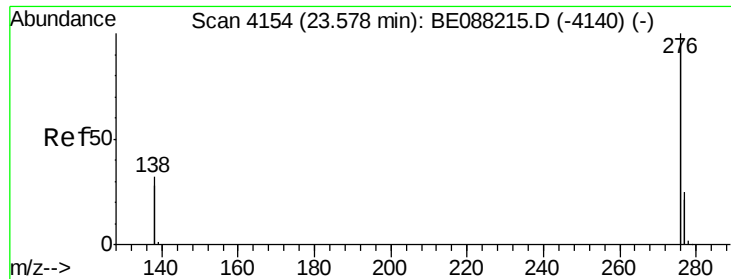


Abundance Ion 228.00 (227.70 to 228.70): E

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: 5.22 ng

RT: 23.58 min Scan# 4156

Delta R.T. 0.01 min

Lab File: BE088219.D

Acq: 24 Oct 2014 18:57

Instrument :

BNA_E

ClientSampleId :

PB79823BSD

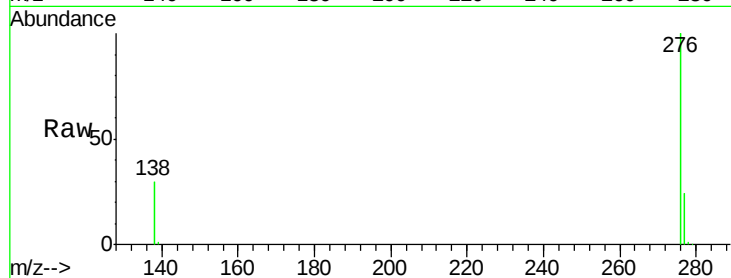
Tgt Ion: 276 Resp: 334534

Ion Ratio Lower Upper

276 100

138 29.7 13.9 20.9#

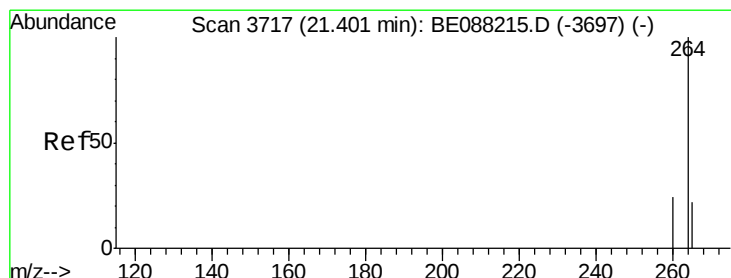
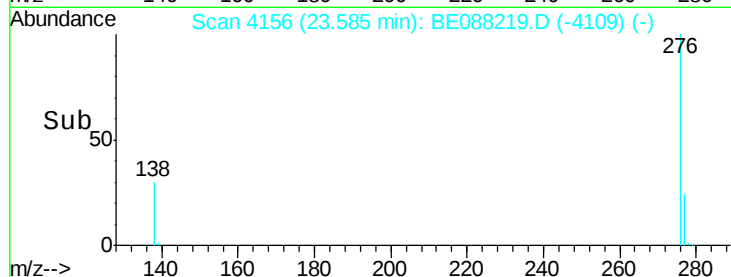
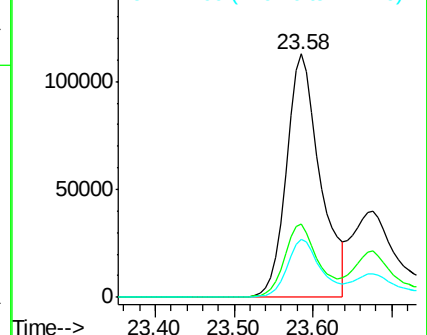
277 23.6 10.7 16.1#



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: 21.40 min Scan# 3718

Delta R.T. 0.00 min

Lab File: BE088219.D

Acq: 24 Oct 2014 18:57

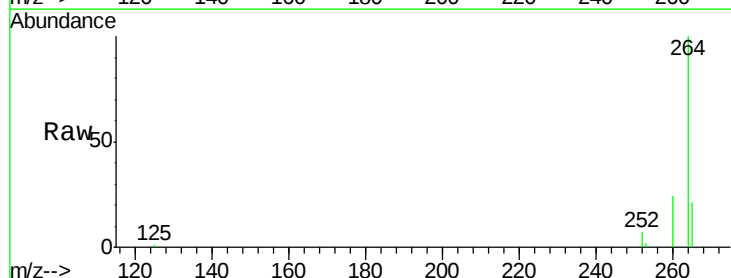
Tgt Ion: 264 Resp: 63539

Ion Ratio Lower Upper

264 100

260 23.6 19.0 28.4

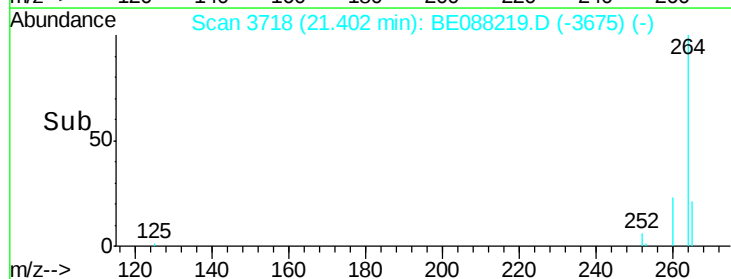
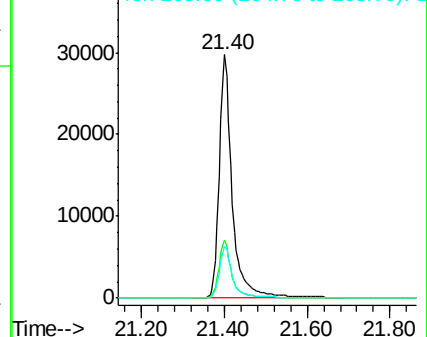
265 21.5 17.4 26.2

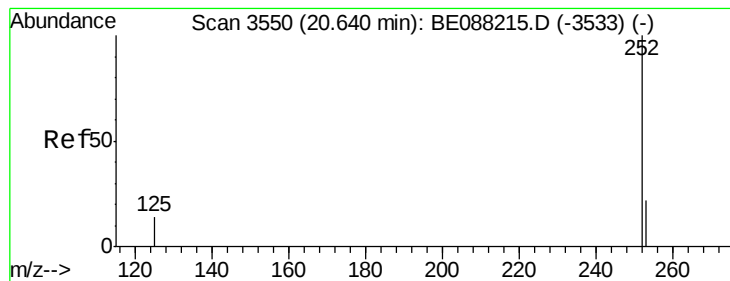


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





#23

Benzo(b)fluoranthene

Concen: 8.26 ng

RT: 20.65 min Scan# 3552

Delta R.T. 0.01 min

Lab File: BE088219.D

Acq: 24 Oct 2014 18:57

Instrument :

BNA_E

ClientSampleId :

PB79823BSD

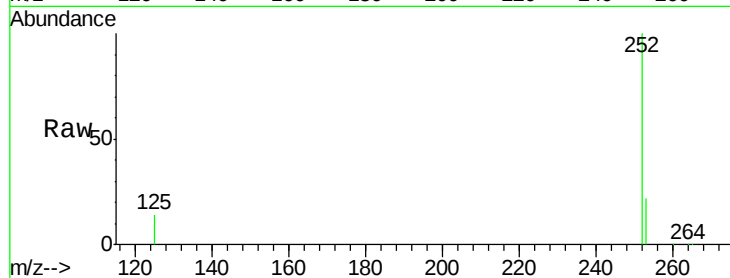
Tgt Ion:252 Resp: 111954

Ion Ratio Lower Upper

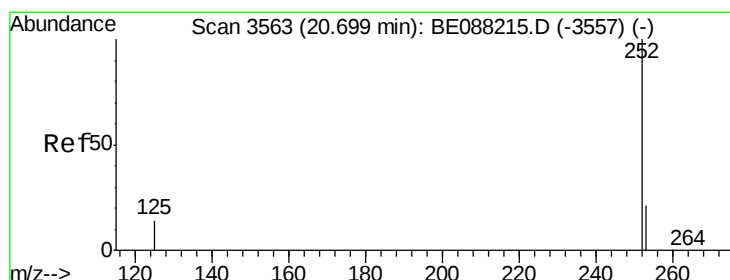
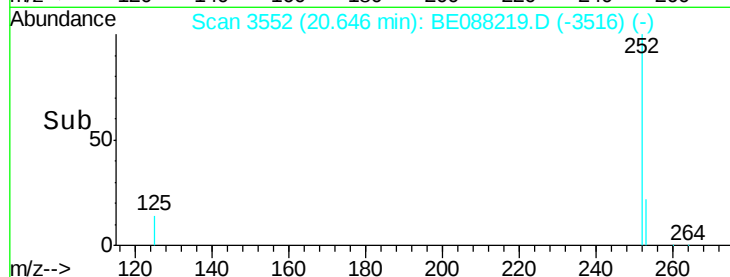
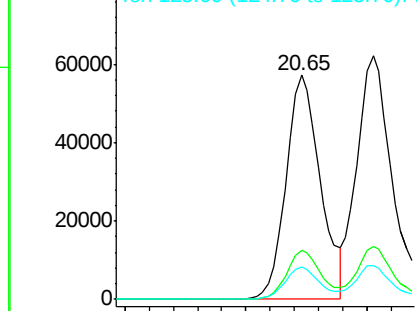
252 100

253 21.7 17.9 26.9

125 14.3 12.2 18.2



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: 8.38 ng

RT: 20.70 min Scan# 3565

Delta R.T. 0.01 min

Lab File: BE088219.D

Acq: 24 Oct 2014 18:57

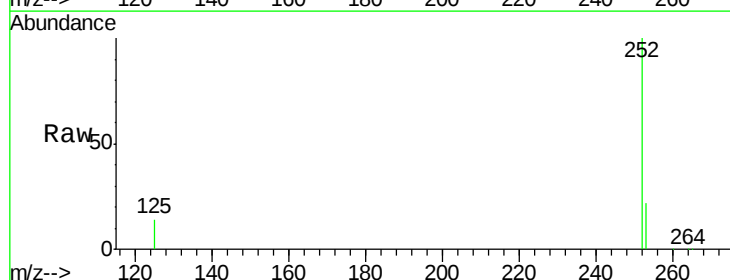
Tgt Ion:252 Resp: 137487

Ion Ratio Lower Upper

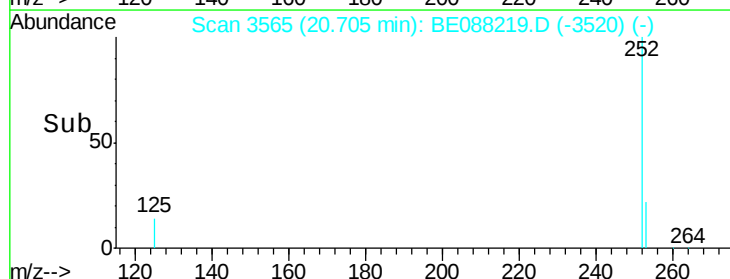
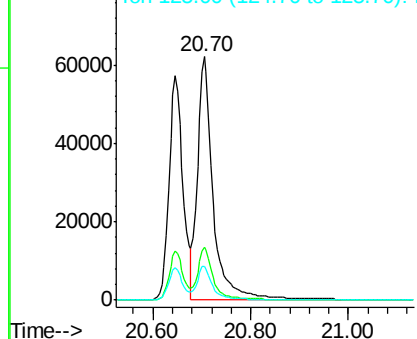
252 100

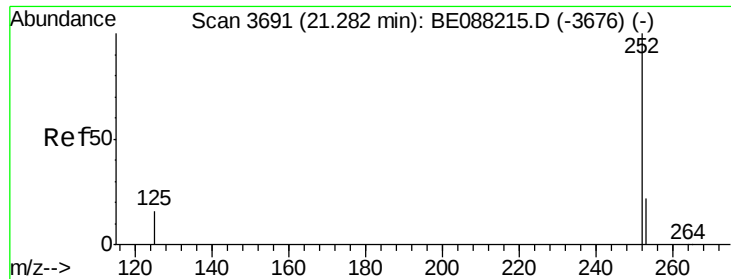
253 21.9 17.6 26.4

125 14.1 12.1 18.1



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





#25

Benzo(a)pyrene

Concen: 8.22 ng

RT: 21.29 min Scan# 3693

Delta R.T. 0.01 min

Lab File: BE088219.D

Acq: 24 Oct 2014 18:57

Instrument :

BNA_E

ClientSampleId :

PB79823BSD

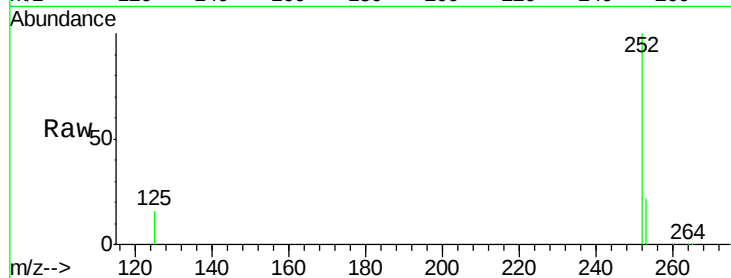
Tgt Ion:252 Resp: 110483

Ion Ratio Lower Upper

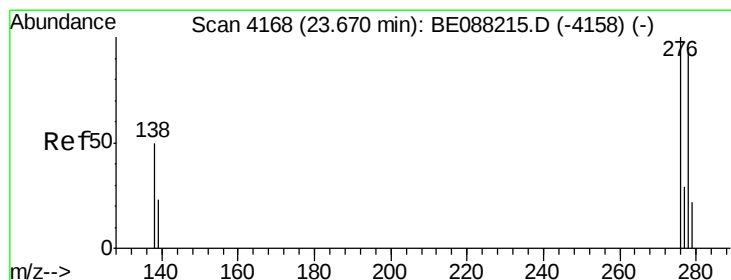
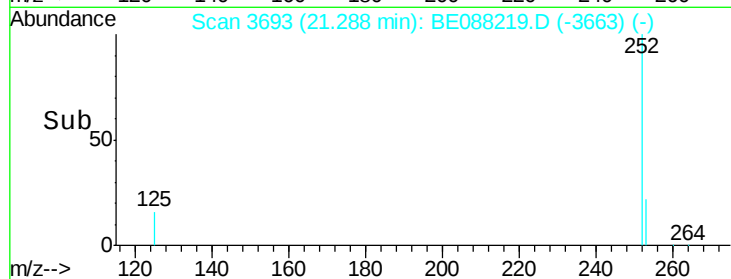
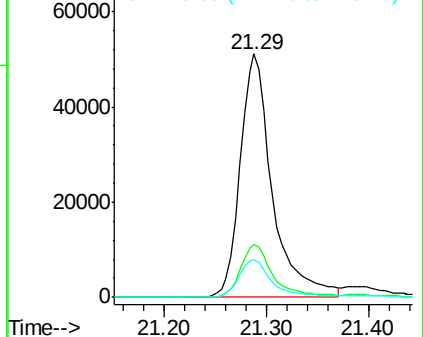
252 100

253 21.9 17.8 26.8

125 15.6 13.5 20.3



Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E



#26

Dibenzo(a,h)anthracene

Concen: 7.57 ng

RT: 23.68 min Scan# 4171

Delta R.T. 0.01 min

Lab File: BE088219.D

Acq: 24 Oct 2014 18:57

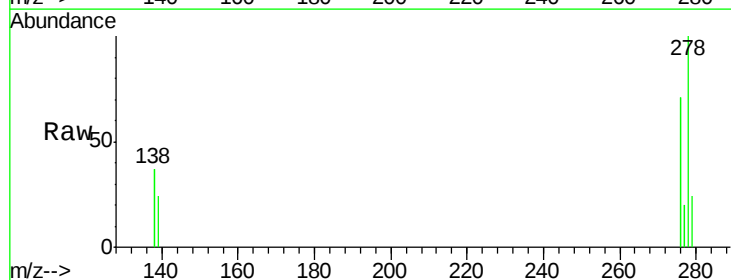
Tgt Ion:278 Resp: 97580

Ion Ratio Lower Upper

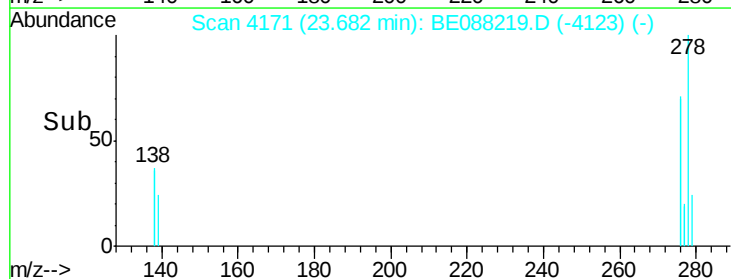
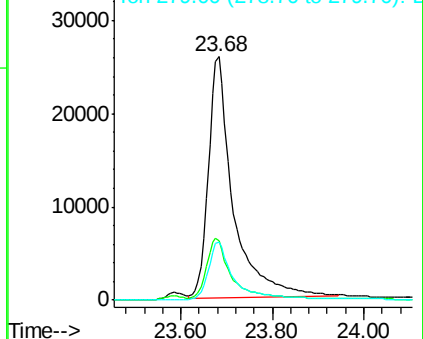
278 100

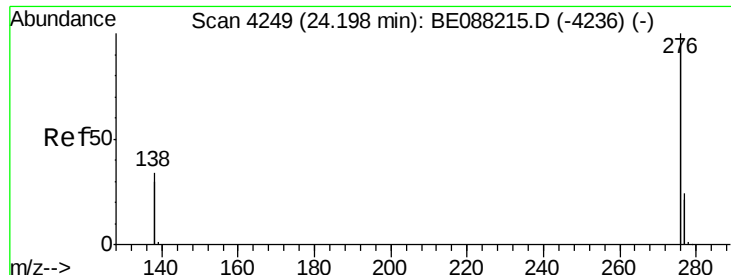
139 24.3 22.1 33.1

279 24.0 20.2 30.2



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: 8.99 ng

RT: 24.21 min Scan# 4252

Delta R.T. 0.01 min

Lab File: BE088219.D

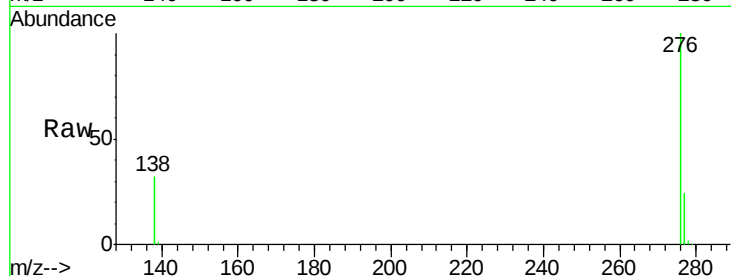
Acq: 24 Oct 2014 18:57

Instrument :

BNA_E

ClientSampleId :

PB79823BSD



Tgt Ion: 276 Resp: 457877

Ion Ratio Lower Upper

276 100

277 23.9 19.4 29.2

138 31.9 27.3 40.9

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

