

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE102114\
 Data File : BE088158.D
 Acq On : 22 Oct 2014 00:09
 Operator : TP/JJ
 Sample : SSTDCCC001
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

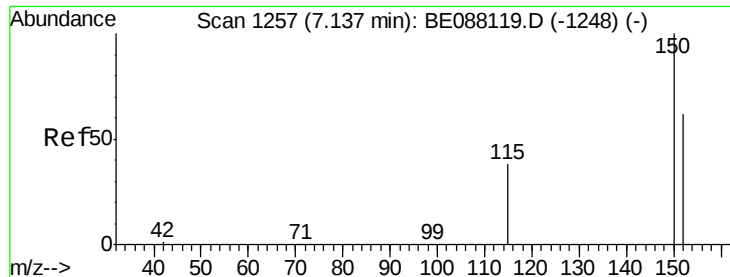
Instrument :
 BNA_E
 ClientSampleId :
 SSTDCCC001EC

Quant Time: Oct 22 04:40:13 2014
 Quant Method : Z:\HPCHEM1\BNA_E\METHODS\SIM-PAH-BE102014.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Oct 21 02:11:14 2014
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.14	152	29152	5.00	ng	0.00
3) Naphthalene-d8	8.70	136	114983	5.00	ng	0.00
7) Acenaphthene-d10	10.85	164	59038	5.00	ng	0.00
12) Phenanthrene-d10	12.96	188	92029	5.00	ng	0.00
16) Chrysene-d12	18.38	240	65697	5.00	ng	0.00
22) Perylene-d12	21.44	264	51276	5.00	ng	0.00
System Monitoring Compounds						
4) Nitrobenzene-d5	7.82	82	9398	1.13	ng	0.00
8) 2-Fluorobiphenyl	10.03	172	26891	1.65	ng	0.00
18) Terphenyl-d14	16.14	244	26224	2.48	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.32	88	4362	1.04	ng	99
5) Naphthalene	8.72	128	24035	1.01	ng	99
6) 2-Methylnaphthalene	9.58	142	14766	1.04	ng	98
9) Acenaphthylene	10.67	152	84093	0.93	ng	100
10) Acenaphthene	10.88	154	12724	0.92	ng	98
11) Fluorene	11.55	166	14061	0.96	ng	100
13) Phenanthrene	13.01	178	79749	1.00	ng	96
14) Anthracene	13.09	178	76989	1.07	ng	100
15) Fluoranthene	15.25	202	17484	1.00	ng	99
17) Pyrene	15.70	202	18235	1.02	ng	100
19) Benzo(a)anthracene	18.36	228	49400	0.85	ng	99
20) Chrysene	18.44	228	53744	0.94	ng	100
21) Indeno(1,2,3-cd)pyrene	23.63	276	30916	0.49	ng	# 87
23) Benzo(b)fluoranthene	20.68	252	9710	0.80	ng	100
24) Benzo(k)fluoranthene	20.74	252	12207	0.93	ng	99
25) Benzo(a)pyrene	21.32	252	9046	0.80	ng	99
26) Dibenzo(a,h)anthracene	23.73	278	8493	0.77	ng	99
27) Benzo(g,h,i)perylene	24.26	276	41715	0.86	ng	99

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

```
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Data File : BE088158.D  
Acq On    : 22 Oct 2014  00:09  
Operator  : TP/JJ  
Sample    : SSTDCCC001  
Misc      :  
ALS Vial  : 2      Sample Multiplier: 1
```



#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 7.14 min Scan# 1258

Delta R.T. 0.00 min

Lab File: BE088158.D

Acq: 22 Oct 2014 00:09

Instrument :

BNA_E

ClientSampleId :

SSTDCCC001EC

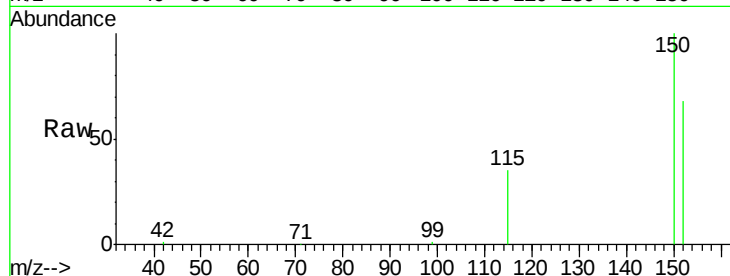
Tgt Ion:152 Resp: 29152

Ion Ratio Lower Upper

152 100

150 147.7 129.2 193.8

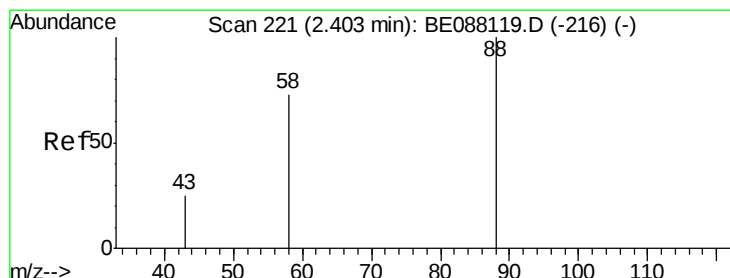
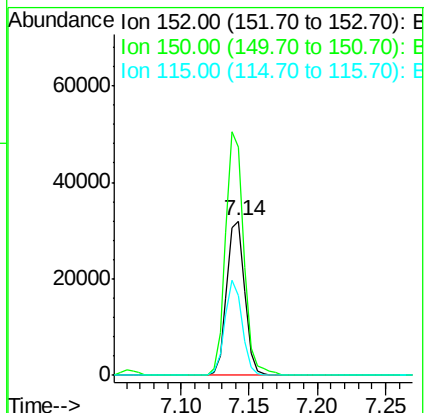
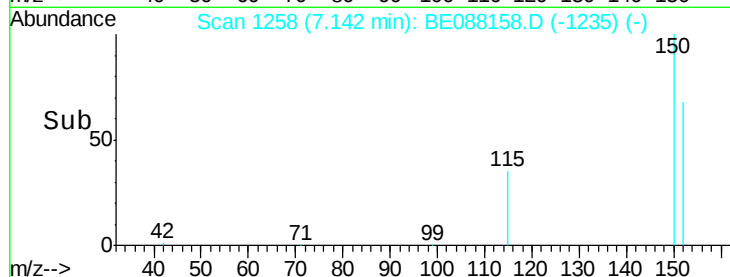
115 52.0 49.3 73.9



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: 1.04 ng

RT: 2.32 min Scan# 203

Delta R.T. -0.08 min

Lab File: BE088158.D

Acq: 22 Oct 2014 00:09

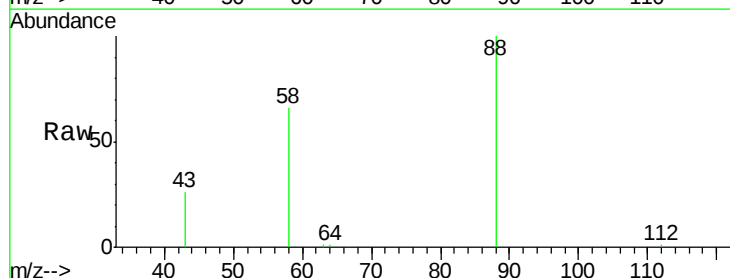
Tgt Ion: 88 Resp: 4362

Ion Ratio Lower Upper

88 100

58 73.4 59.5 89.3

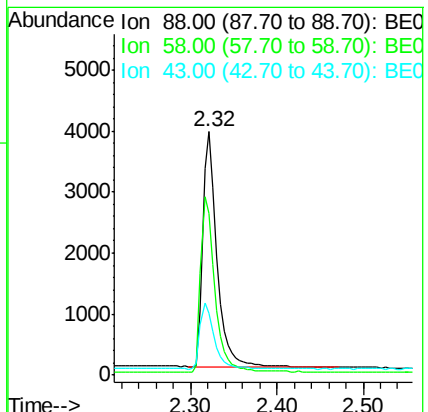
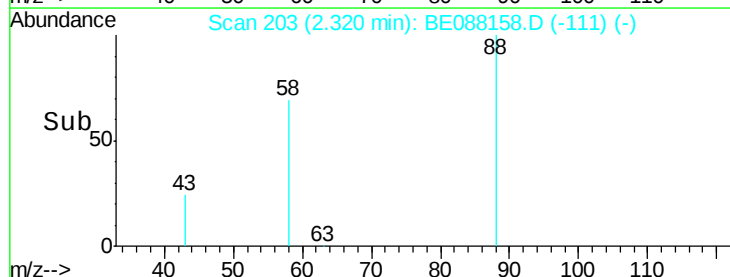
43 27.6 21.2 31.8

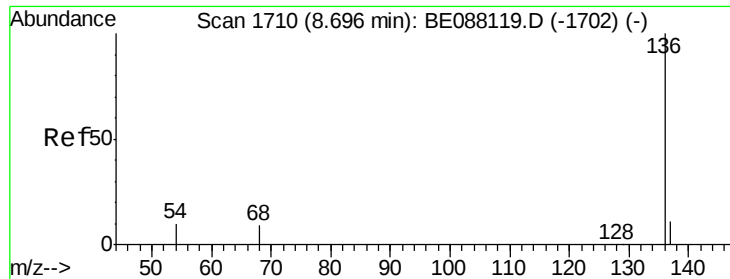


Abundance Ion 88.00 (87.70 to 88.70): BE0

Ion 58.00 (57.70 to 58.70): BE0

Ion 43.00 (42.70 to 43.70): BE0

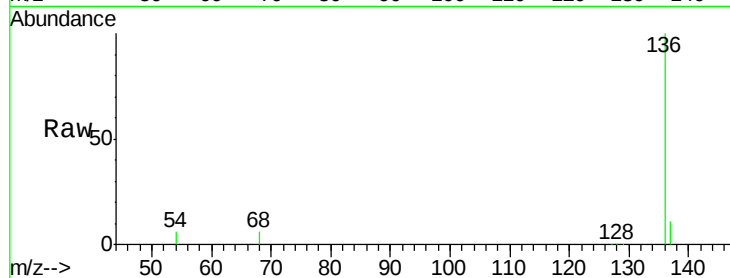




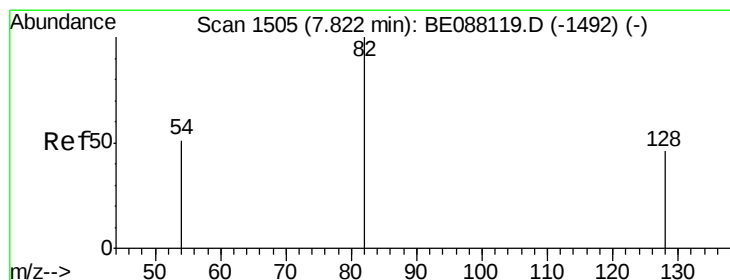
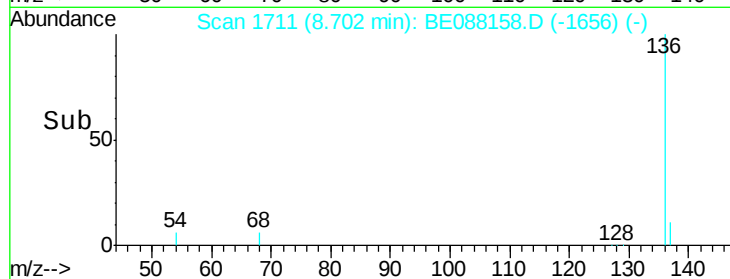
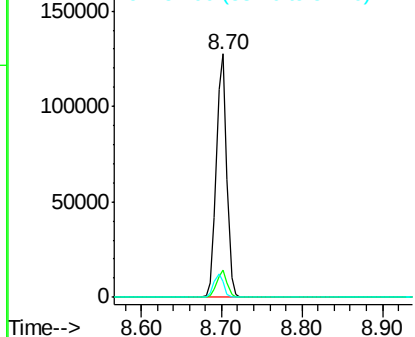
#3
Naphthalene-d8
Concen: 5.00 ng
RT: 8.70 min Scan# 1711
Delta R.T. 0.01 min
Lab File: BE088158.D
Acq: 22 Oct 2014 00:09

Instrument :
BNA_E
ClientSampleId :
SSTDCCC001EC

Tgt Ion: 136 Resp: 114983
Ion Ratio Lower Upper
136 100
137 11.2 8.6 12.8
54 6.2 7.7 11.5#

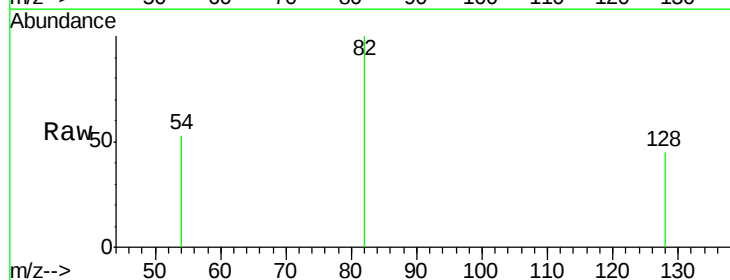


Abundance Ion 136.00 (135.70 to 136.70): E
Ion 137.00 (136.70 to 137.70): E
Ion 54.00 (53.70 to 54.70): BE0

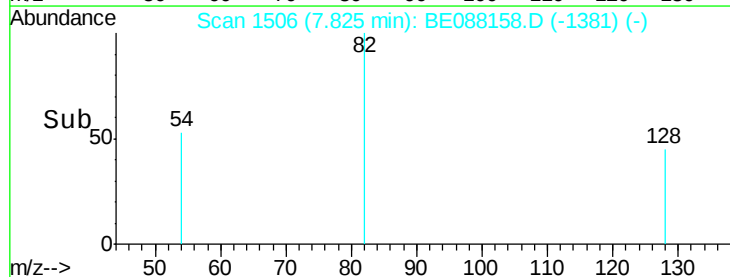
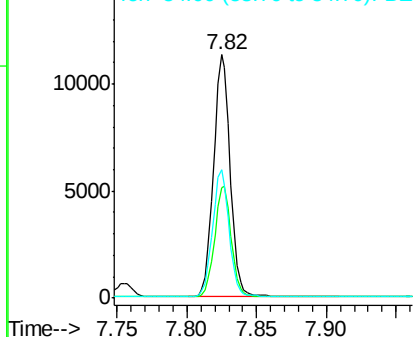


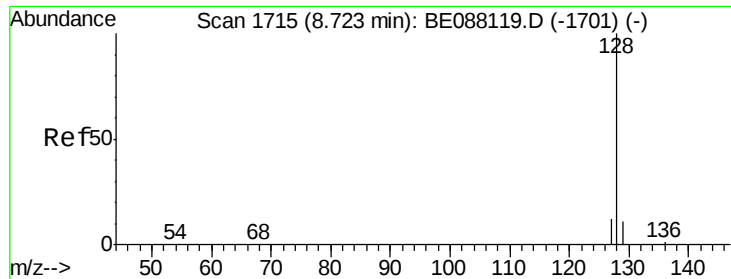
#4
Nitrobenzene-d5
Concen: 1.13 ng
RT: 7.82 min Scan# 1506
Delta R.T. 0.00 min
Lab File: BE088158.D
Acq: 22 Oct 2014 00:09

Tgt Ion: 82 Resp: 9398
Ion Ratio Lower Upper
82 100
128 45.4 37.1 55.7
54 52.8 41.1 61.7



Abundance Ion 82.00 (81.70 to 82.70): BE0
Ion 128.00 (127.70 to 128.70): E
Ion 54.00 (53.70 to 54.70): BE0





#5

Naphthalene

Concen: 1.01 ng

RT: 8.72 min Scan# 1715

Delta R.T. 0.00 min

Lab File: BE088158.D

Acq: 22 Oct 2014 00:09

Instrument :

BNA_E

ClientSampleId :

SSTDCCC001EC

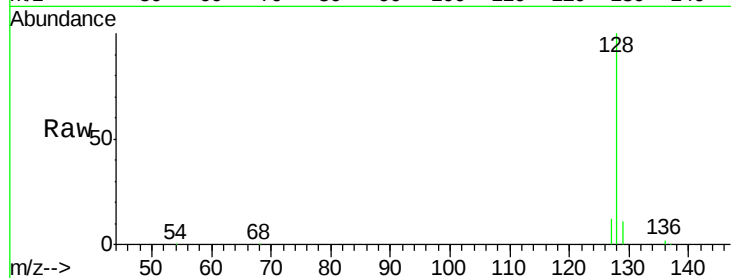
Tgt Ion:128 Resp: 24035

Ion Ratio Lower Upper

128 100

129 10.7 8.9 13.3

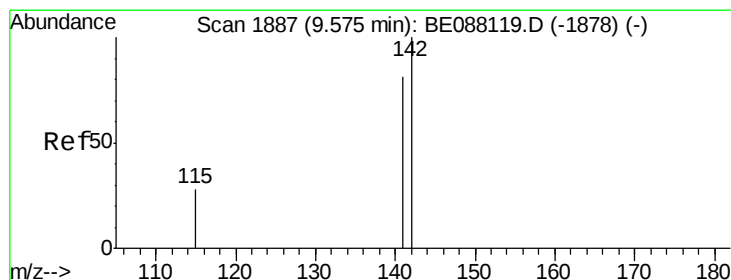
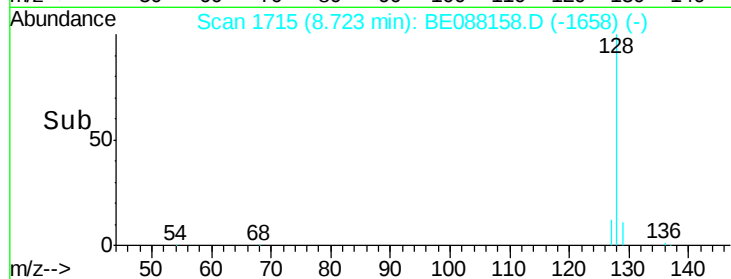
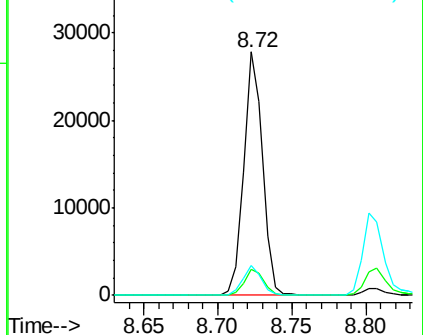
127 12.4 9.7 14.5



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



#6

2-Methylnaphthalene

Concen: 1.04 ng

RT: 9.58 min Scan# 1887

Delta R.T. 0.00 min

Lab File: BE088158.D

Acq: 22 Oct 2014 00:09

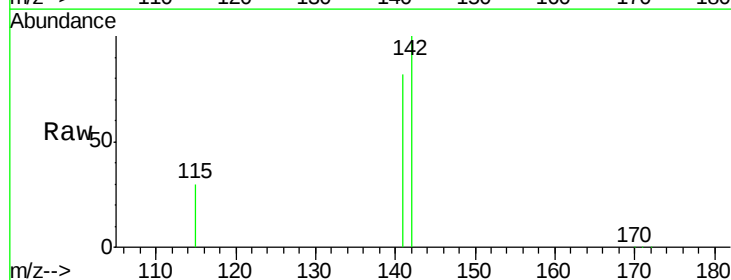
Tgt Ion:142 Resp: 14766

Ion Ratio Lower Upper

142 100

141 81.9 64.6 97.0

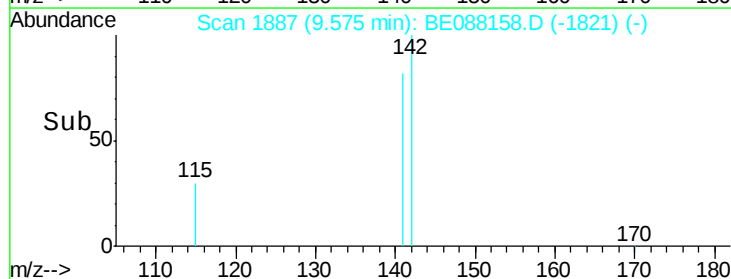
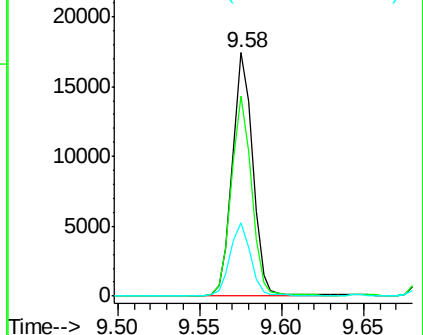
115 30.1 22.6 34.0

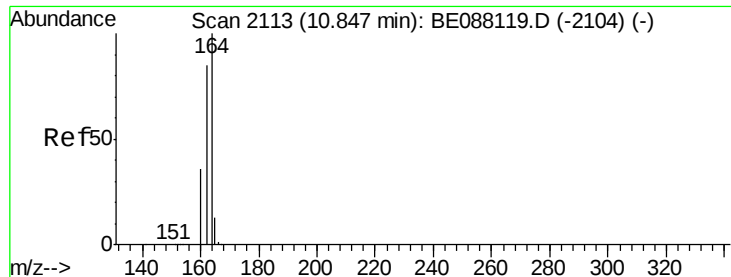


Abundance Ion 142.00 (141.70 to 142.70): E

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: 10.85 min Scan# 2113

Delta R.T. -0.00 min

Lab File: BE088158.D

Acq: 22 Oct 2014 00:09

Instrument :

BNA_E

ClientSampleId :

SSTDCCC001EC

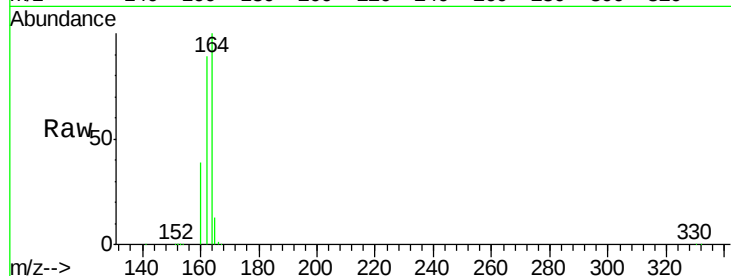
Tgt Ion:164 Resp: 59038

Ion Ratio Lower Upper

164 100

162 89.0 68.3 102.5

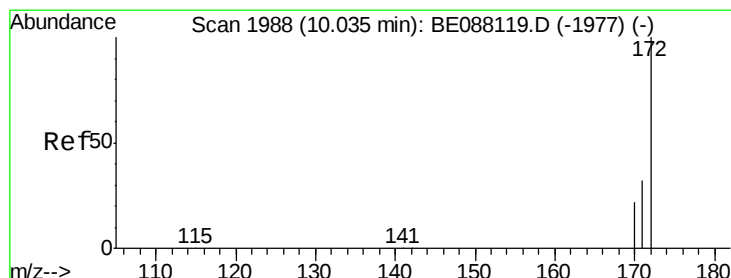
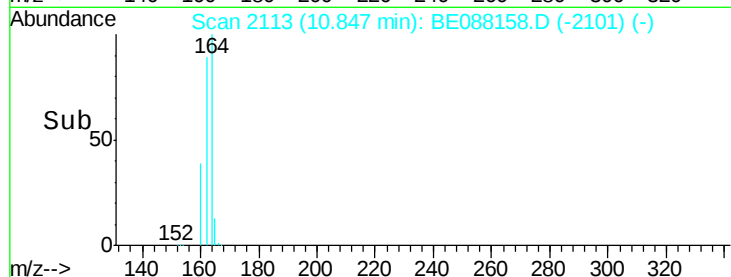
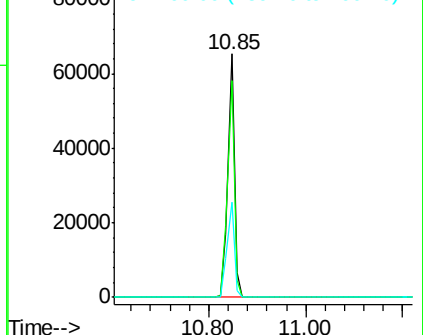
160 39.0 28.7 43.1



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: 1.65 ng

RT: 10.03 min Scan# 1988

Delta R.T. 0.00 min

Lab File: BE088158.D

Acq: 22 Oct 2014 00:09

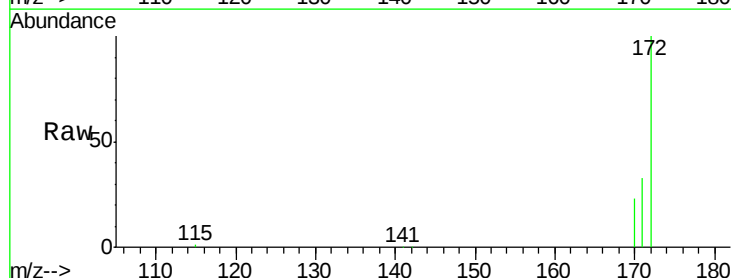
Tgt Ion:172 Resp: 26891

Ion Ratio Lower Upper

172 100

171 33.1 25.4 38.2

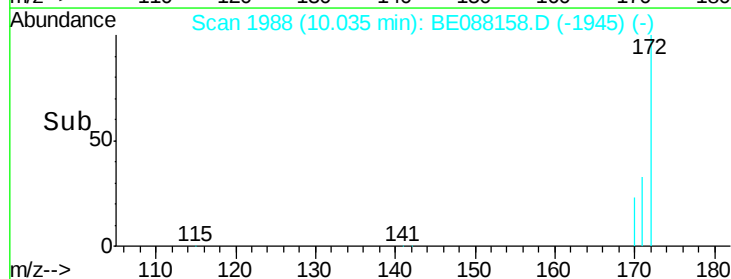
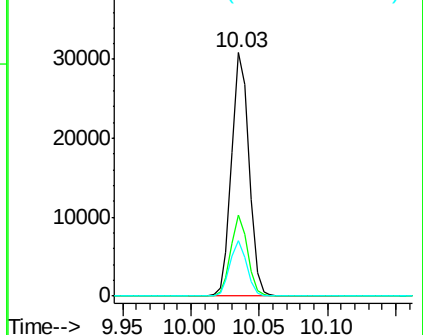
170 22.9 17.4 26.2

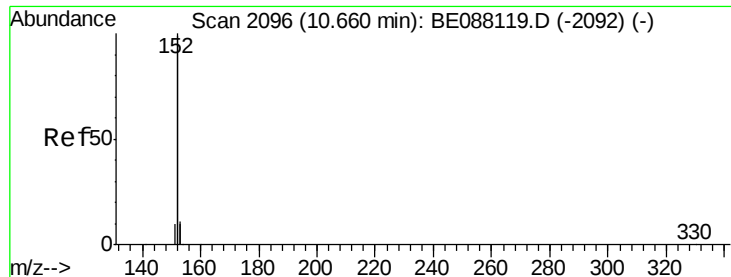


Abundance Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E





#9

Acenaphthylene

Concen: 0.93 ng

RT: 10.67 min Scan# 2097

Delta R.T. 0.01 min

Lab File: BE088158.D

Acq: 22 Oct 2014 00:09

Instrument :

BNA_E

ClientSampleId :

SSTDCCC001EC

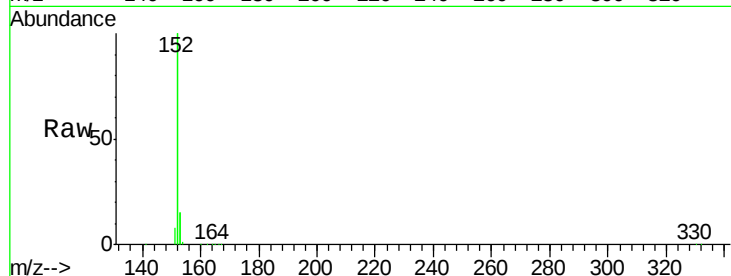
Tgt Ion:152 Resp: 84093

Ion Ratio Lower Upper

152 100

151 4.6 3.7 5.5

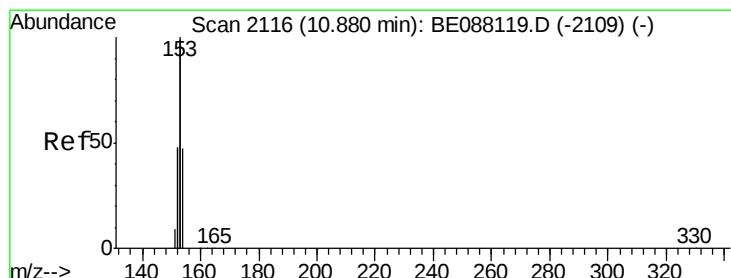
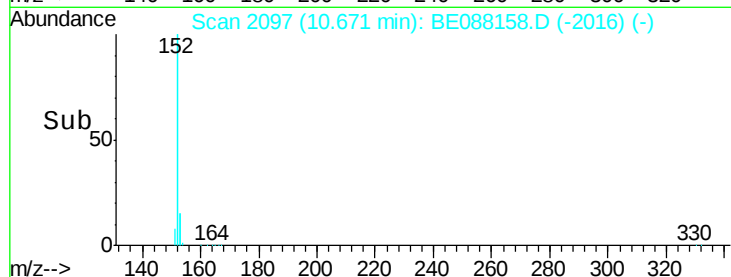
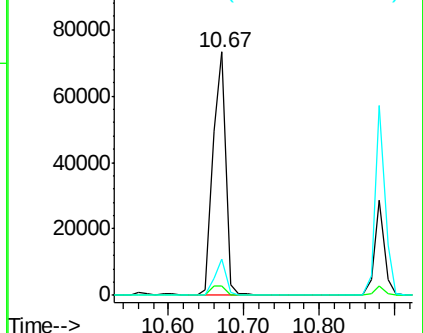
153 13.1 10.4 15.6



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



#10

Acenaphthene

Concen: 0.92 ng

RT: 10.88 min Scan# 2116

Delta R.T. -0.00 min

Lab File: BE088158.D

Acq: 22 Oct 2014 00:09

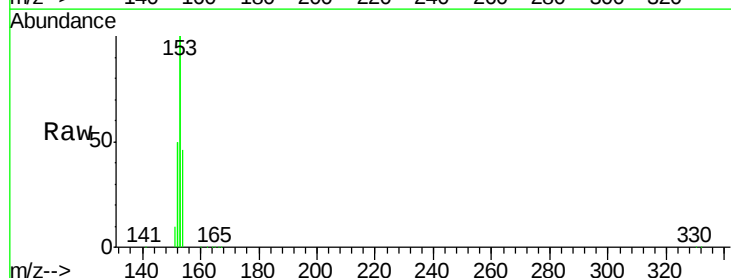
Tgt Ion:154 Resp: 12724

Ion Ratio Lower Upper

154 100

153 404.3 327.8 491.6

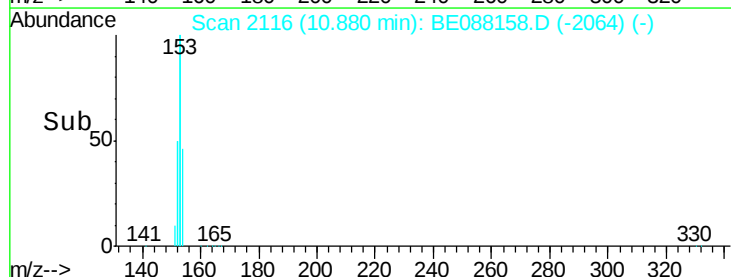
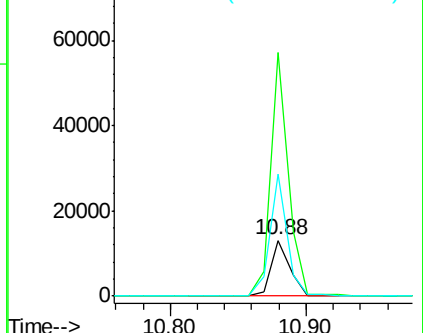
152 195.6 157.6 236.4

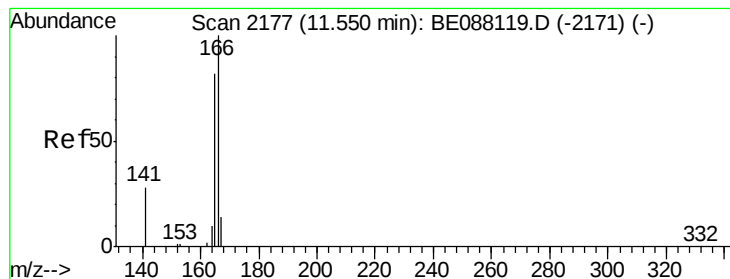


Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E





#11

Fluorene

Concen: 0.96 ng

RT: 11.55 min Scan# 2177

Delta R.T. -0.00 min

Lab File: BE088158.D

Acq: 22 Oct 2014 00:09

Instrument :

BNA_E

ClientSampleId :

SSTDCCC001EC

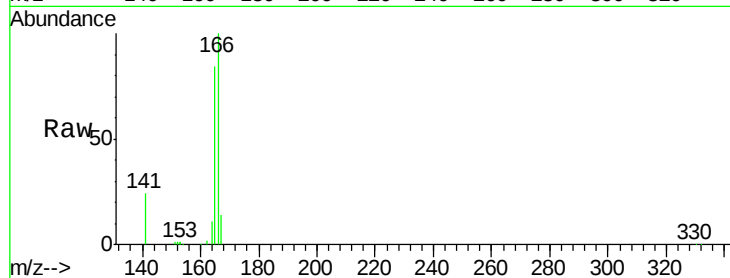
Tgt Ion:166 Resp: 14061

Ion Ratio Lower Upper

166 100

165 89.4 71.4 107.2

167 13.4 10.6 16.0



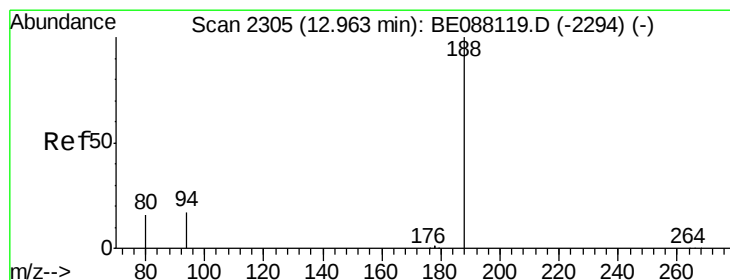
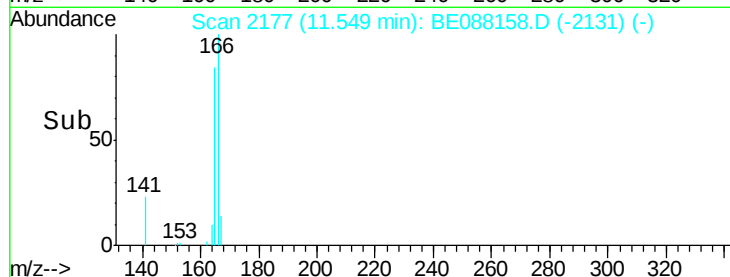
Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E

11.55

Time--> 11.40 11.50 11.60 11.70



#12

Phenanthrene-d10

Concen: 5.00 ng

RT: 12.96 min Scan# 2305

Delta R.T. 0.00 min

Lab File: BE088158.D

Acq: 22 Oct 2014 00:09

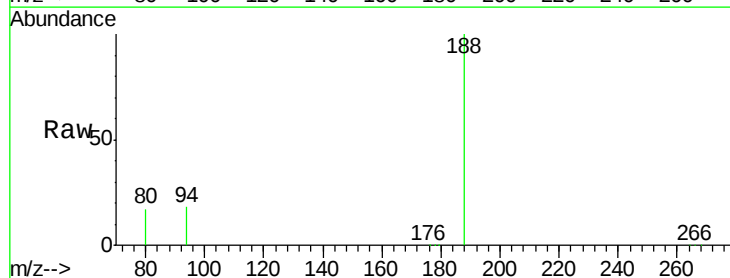
Tgt Ion:188 Resp: 92029

Ion Ratio Lower Upper

188 100

94 17.6 13.9 20.9

80 16.6 12.9 19.3



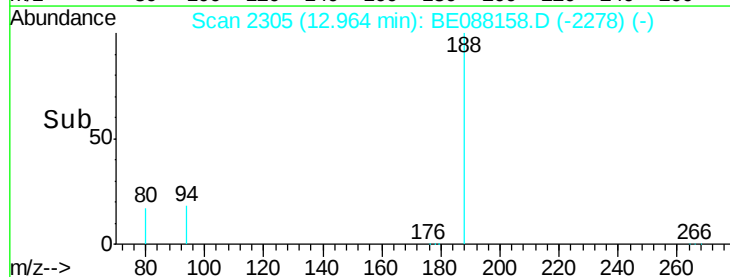
Abundance Ion 188.00 (187.70 to 188.70): E

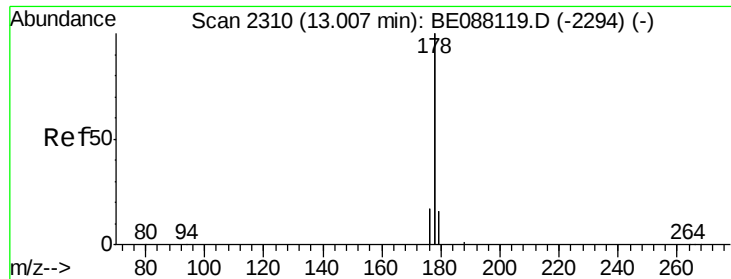
Ion 94.00 (93.70 to 94.70): BE0

Ion 80.00 (79.70 to 80.70): BE0

12.96

Time--> 12.90 13.00





#13

Phenanthrene

Concen: 1.00 ng

RT: 13.01 min Scan# 2310

Delta R.T. 0.00 min

Lab File: BE088158.D

Acq: 22 Oct 2014 00:09

Instrument :

BNA_E

ClientSampleId :

SSTDCCC001EC

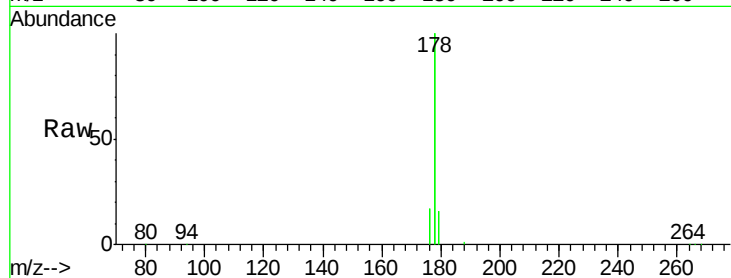
Tgt Ion:178 Resp: 79749

Ion Ratio Lower Upper

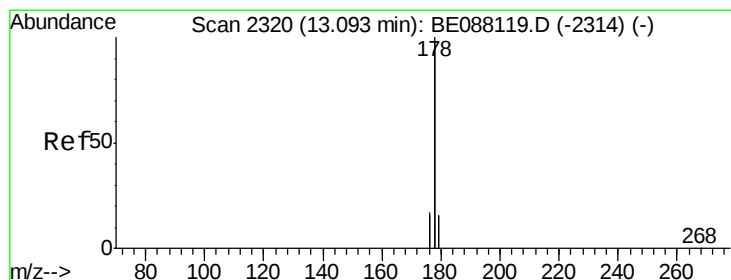
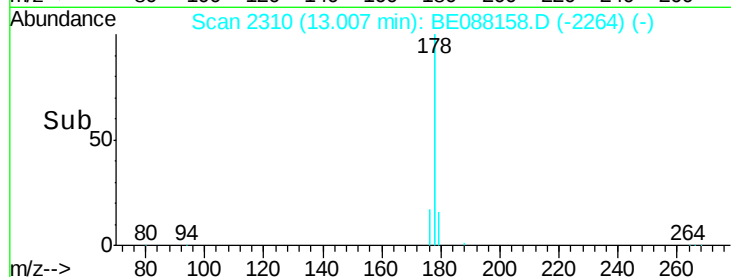
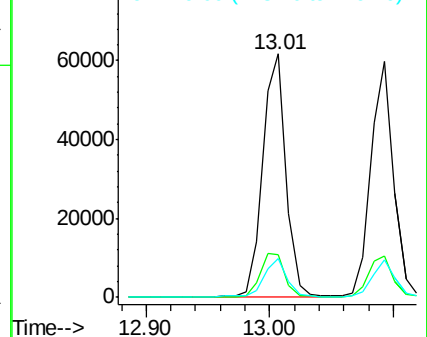
178 100

176 18.6 12.5 18.7

179 16.4 13.5 20.3



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: 1.07 ng

RT: 13.09 min Scan# 2320

Delta R.T. 0.00 min

Lab File: BE088158.D

Acq: 22 Oct 2014 00:09

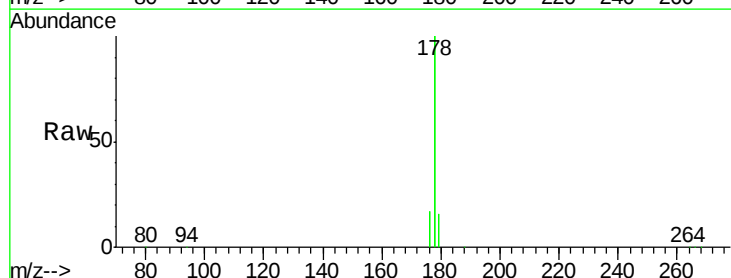
Tgt Ion:178 Resp: 76989

Ion Ratio Lower Upper

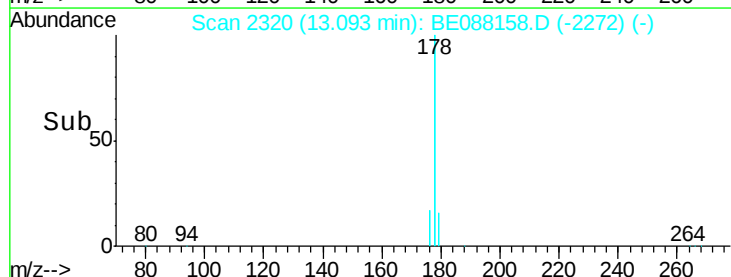
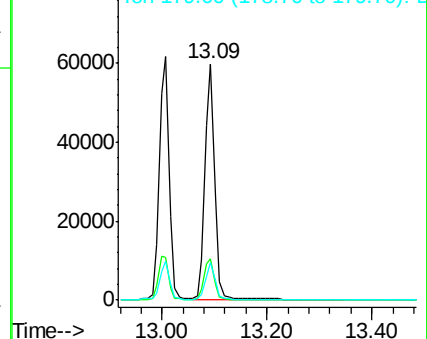
178 100

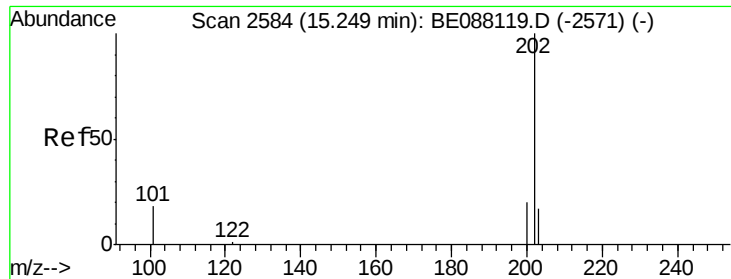
176 17.8 14.6 21.8

179 15.6 12.5 18.7



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

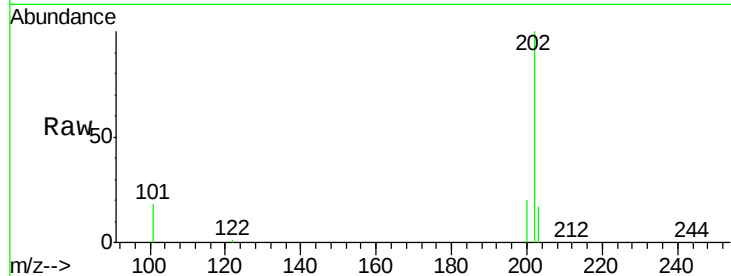




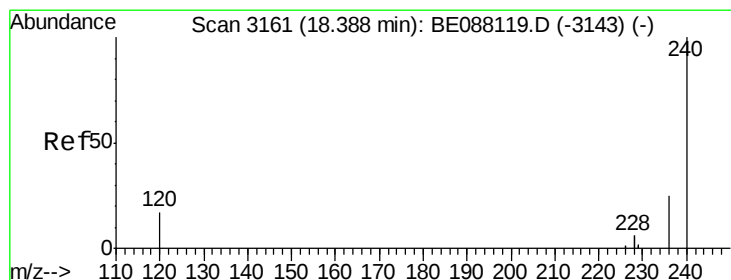
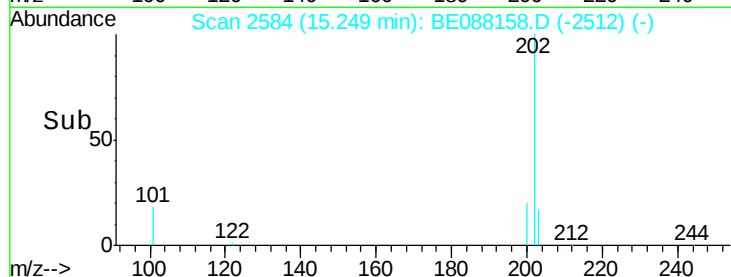
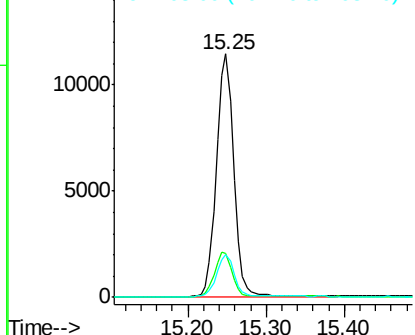
#15
 Fluoranthene
 Concen: 1.00 ng
 RT: 15.25 min Scan# 2584
 Delta R.T. 0.00 min
 Lab File: BE088158.D
 Acq: 22 Oct 2014 00:09

Instrument :
 BNA_E
 ClientSampleId :
 SSTDCCC001EC

Tgt Ion: 202 Resp: 17484
 Ion Ratio Lower Upper
 202 100
 101 18.2 14.8 22.2
 203 17.1 13.5 20.3

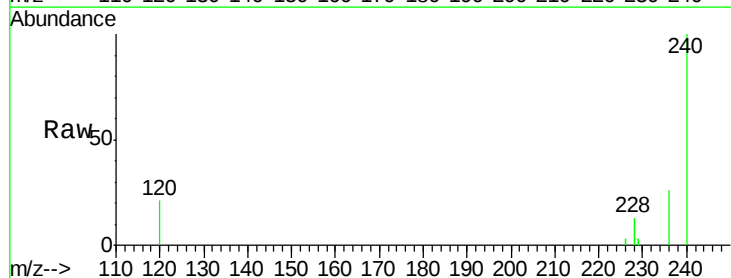


Abundance Ion 202.00 (201.70 to 202.70): E
 Ion 101.00 (100.70 to 101.70): E
 Ion 203.00 (202.70 to 203.70): E

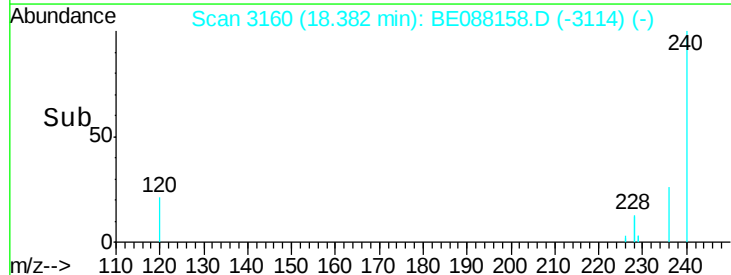
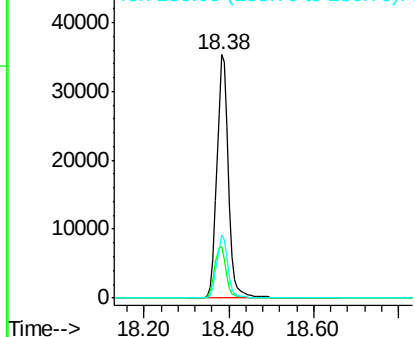


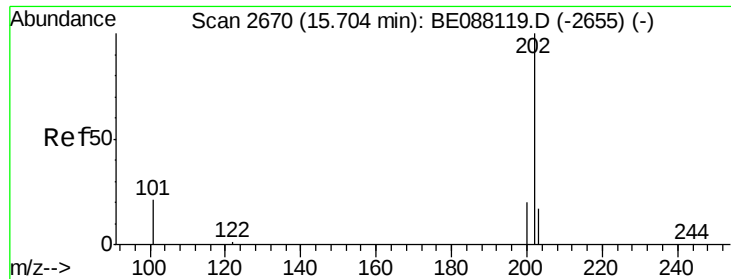
#16
 Chrysene-d12
 Concen: 5.00 ng
 RT: 18.38 min Scan# 3160
 Delta R.T. -0.01 min
 Lab File: BE088158.D
 Acq: 22 Oct 2014 00:09

Tgt Ion: 240 Resp: 65697
 Ion Ratio Lower Upper
 240 100
 120 21.0 13.9 20.9#
 236 25.8 19.9 29.9



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: 1.02 ng

RT: 15.70 min Scan# 2670

Delta R.T. 0.00 min

Lab File: BE088158.D

Acq: 22 Oct 2014 00:09

Instrument :

BNA_E

ClientSampleId :

SSTDCCC001EC

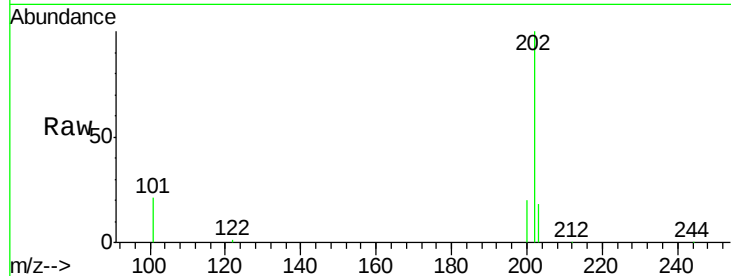
Tgt Ion:202 Resp: 18235

Ion Ratio Lower Upper

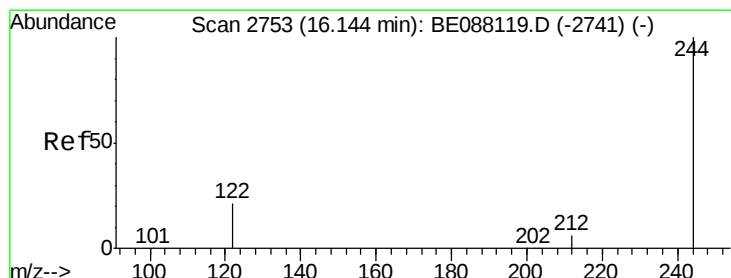
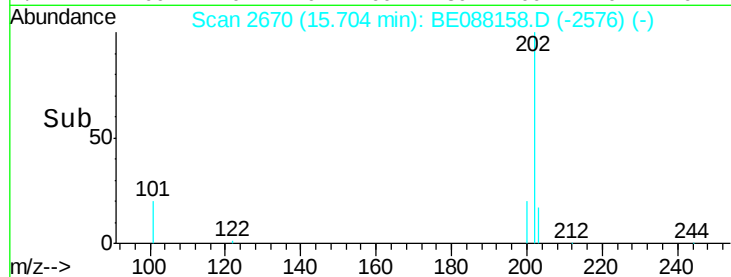
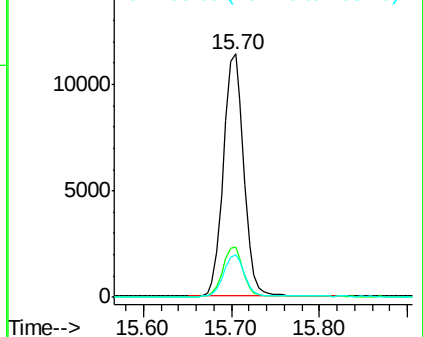
202 100

200 20.1 16.1 24.1

203 17.4 13.9 20.9



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: 2.48 ng

RT: 16.14 min Scan# 2753

Delta R.T. 0.00 min

Lab File: BE088158.D

Acq: 22 Oct 2014 00:09

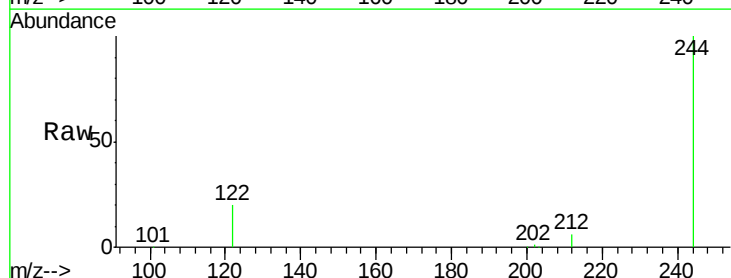
Tgt Ion:244 Resp: 26224

Ion Ratio Lower Upper

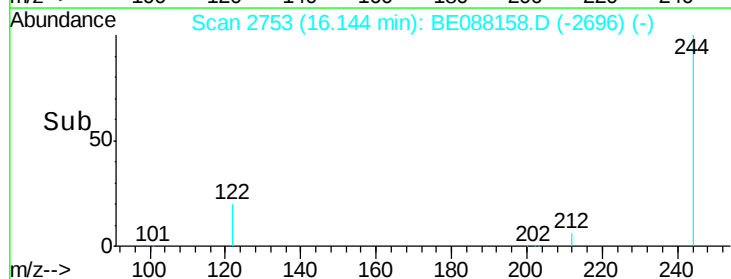
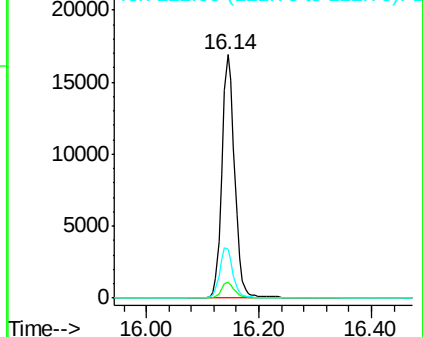
244 100

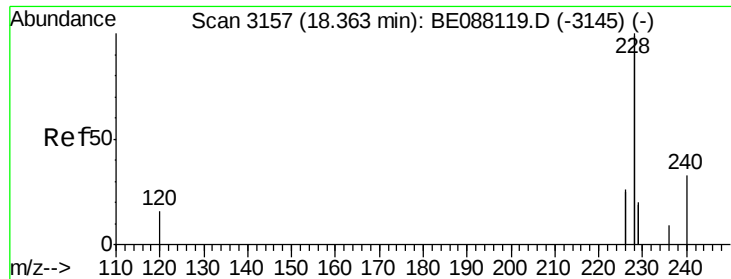
212 6.5 5.4 8.0

122 20.1 17.5 26.3



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: 0.85 ng

RT: 18.36 min Scan# 3157

Delta R.T. 0.00 min

Lab File: BE088158.D

Acq: 22 Oct 2014 00:09

Instrument :

BNA_E

ClientSampleId :

SSTDCCC001EC

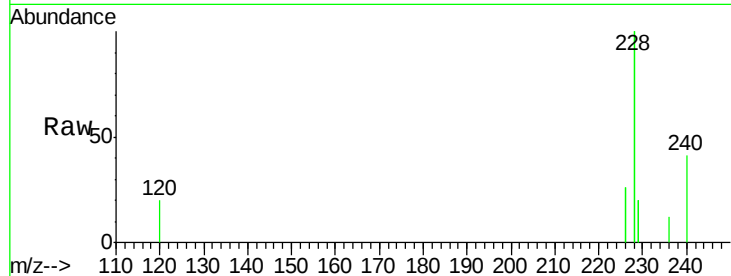
Tgt Ion:228 Resp: 49400

Ion Ratio Lower Upper

228 100

226 26.4 20.8 31.2

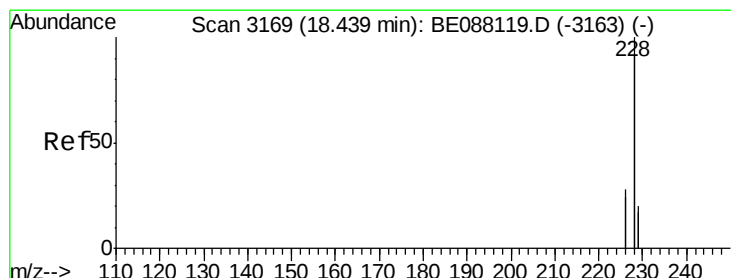
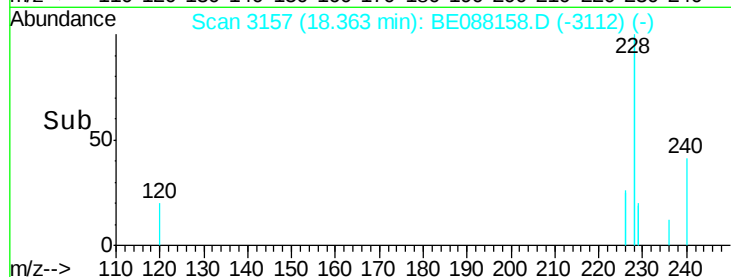
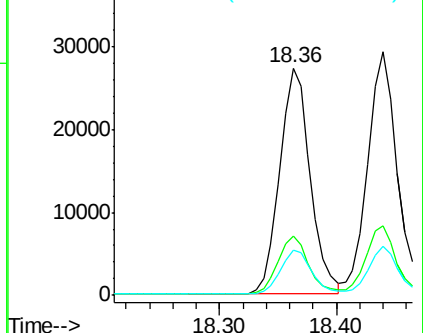
229 19.9 15.6 23.4



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



#20

Chrysene

Concen: 0.94 ng

RT: 18.44 min Scan# 3169

Delta R.T. 0.00 min

Lab File: BE088158.D

Acq: 22 Oct 2014 00:09

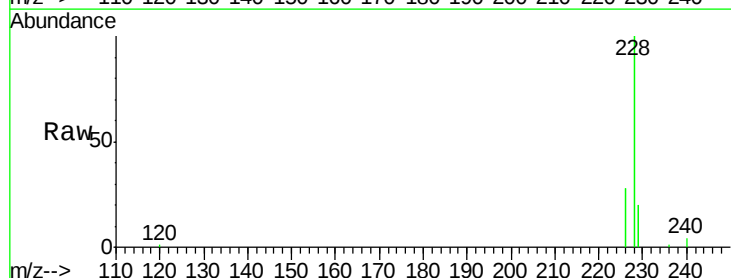
Tgt Ion:228 Resp: 53744

Ion Ratio Lower Upper

228 100

226 28.4 22.7 34.1

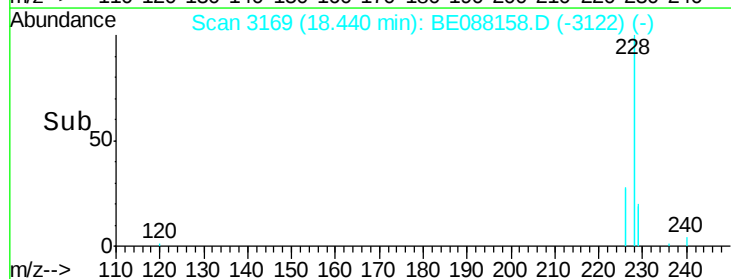
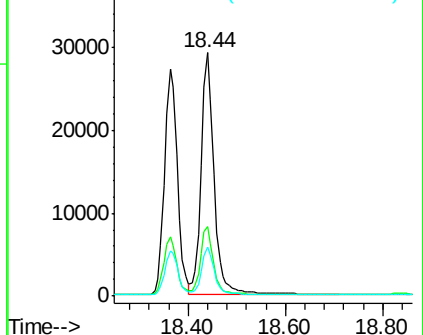
229 20.1 15.8 23.6

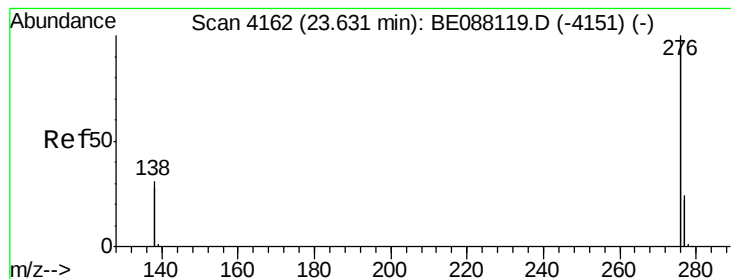


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

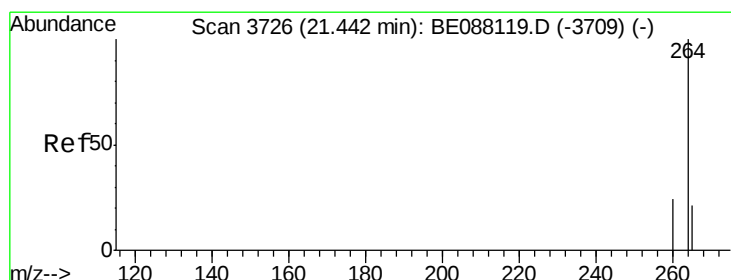
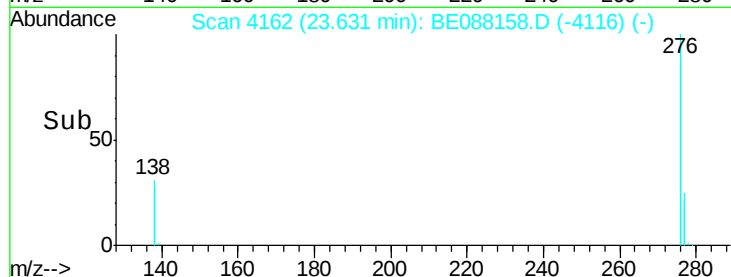
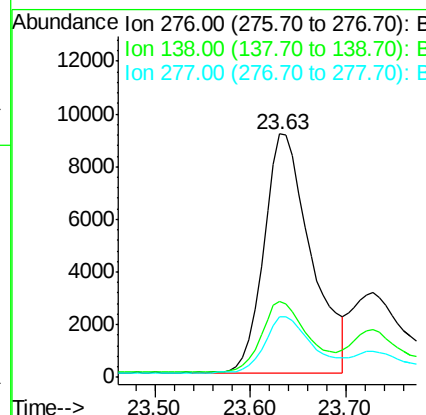
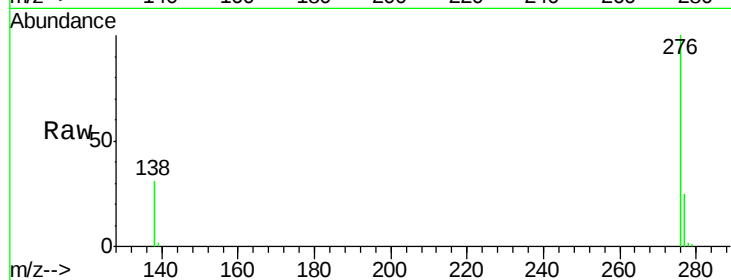




#21
 Indeno(1,2,3-cd)pyrene
 Concen: 0.49 ng
 RT: 23.63 min Scan# 4162
 Delta R.T. -0.00 min
 Lab File: BE088158.D
 Acq: 22 Oct 2014 00:09

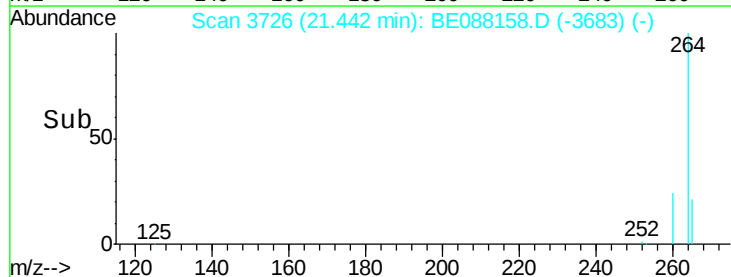
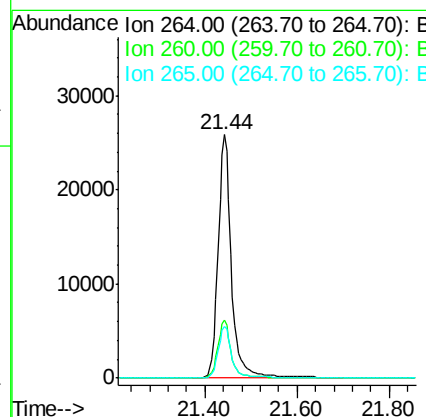
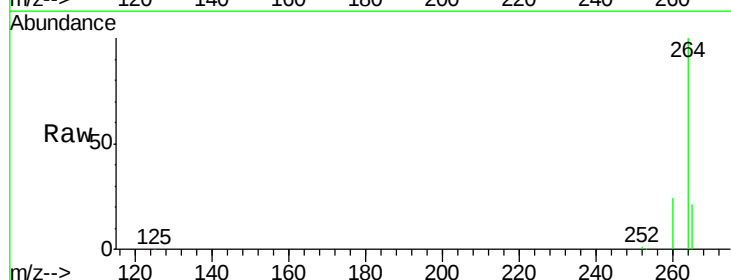
Instrument :
 BNA_E
 ClientSampleId :
 SSTDCCC001EC

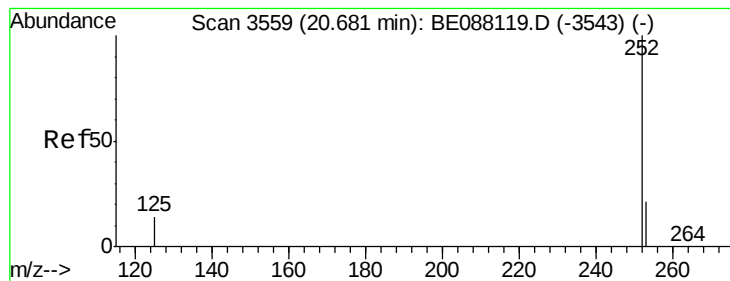
Tgt Ion: 276 Resp: 30916
 Ion Ratio Lower Upper
 276 100
 138 29.5 18.5 27.7#
 277 23.6 14.6 21.8#



#22
 Perylene-d12
 Concen: 5.00 ng
 RT: 21.44 min Scan# 3726
 Delta R.T. 0.00 min
 Lab File: BE088158.D
 Acq: 22 Oct 2014 00:09

Tgt Ion: 264 Resp: 51276
 Ion Ratio Lower Upper
 264 100
 260 23.7 19.0 28.4
 265 21.4 17.2 25.8





#23

Benzo(b)fluoranthene

Concen: 0.80 ng

RT: 20.68 min Scan# 3559

Delta R.T. 0.00 min

Lab File: BE088158.D

Acq: 22 Oct 2014 00:09

Instrument :

BNA_E

ClientSampleId :

SSTDCCC001EC

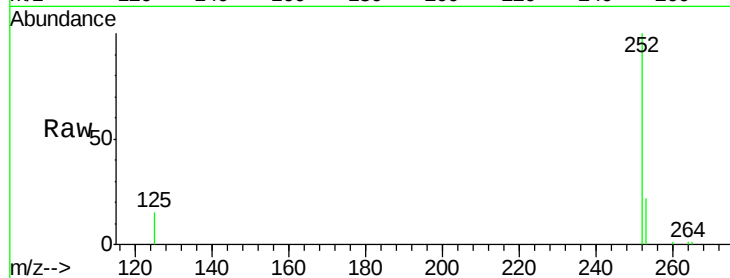
Tgt Ion:252 Resp: 9710

Ion Ratio Lower Upper

252 100

253 21.8 17.4 26.0

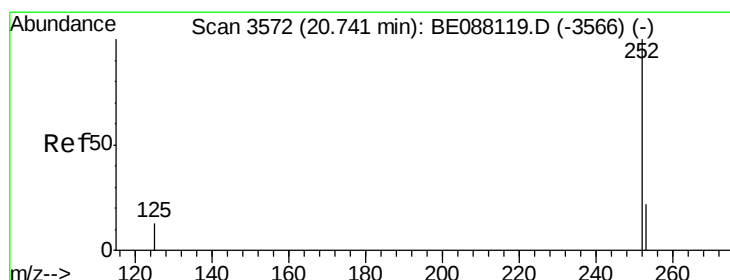
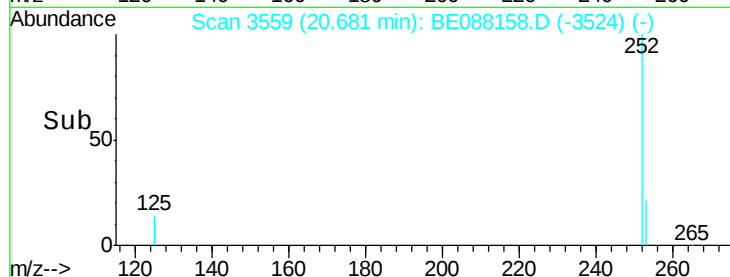
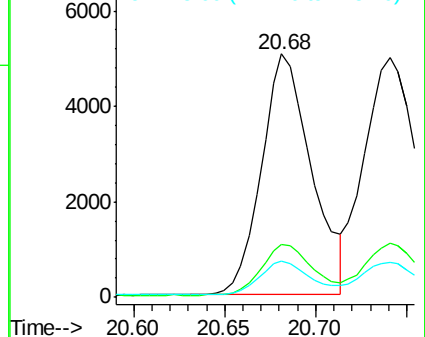
125 14.9 11.8 17.8



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: 0.93 ng

RT: 20.74 min Scan# 3572

Delta R.T. 0.00 min

Lab File: BE088158.D

Acq: 22 Oct 2014 00:09

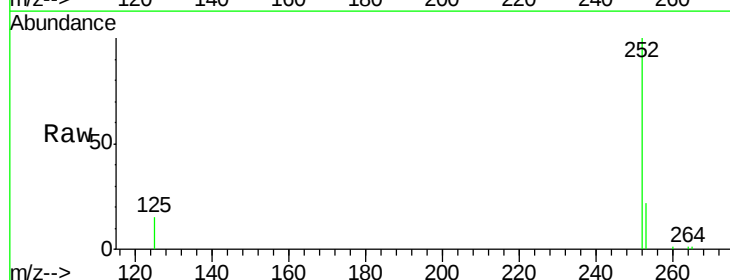
Tgt Ion:252 Resp: 12207

Ion Ratio Lower Upper

252 100

253 22.4 17.6 26.4

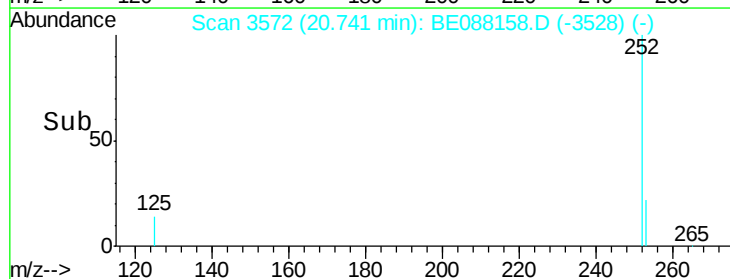
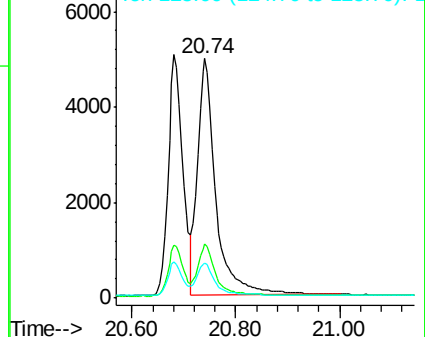
125 14.9 11.5 17.3

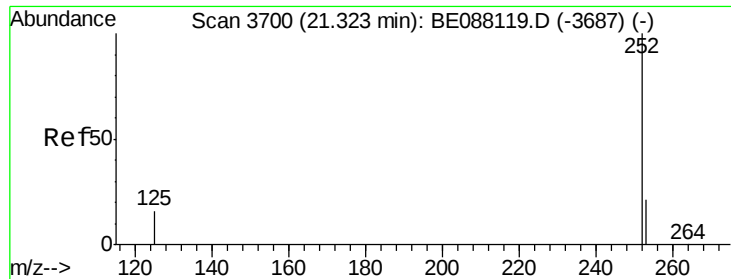


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#25

Benzo(a)pyrene

Concen: 0.80 ng

RT: 21.32 min Scan# 3700

Delta R.T. 0.00 min

Lab File: BE088158.D

Acq: 22 Oct 2014 00:09

Instrument :

BNA_E

ClientSampleId :

SSTDCCC001EC

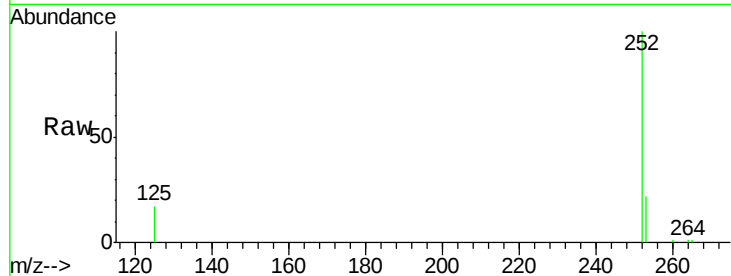
Tgt Ion:252 Resp: 9046

Ion Ratio Lower Upper

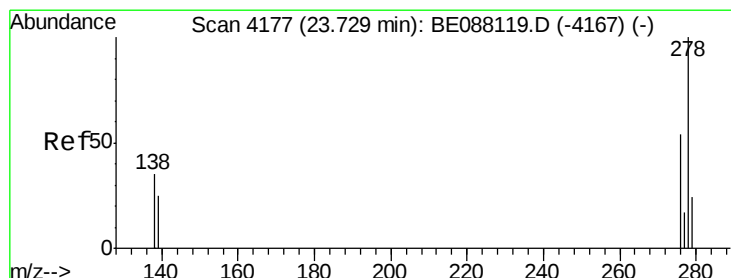
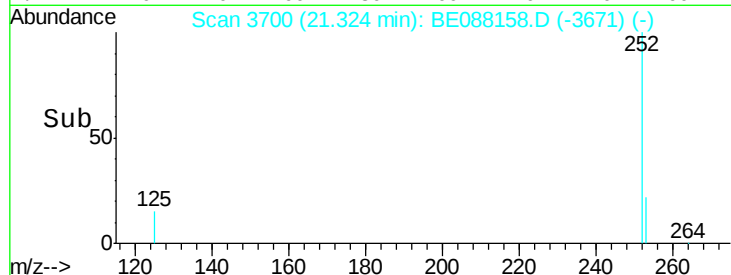
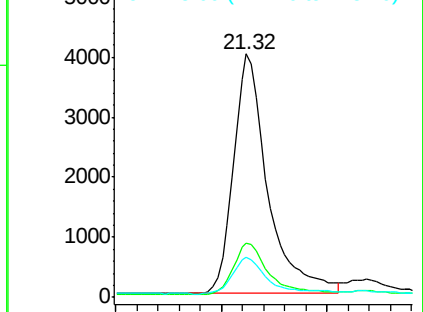
252 100

253 22.5 17.5 26.3

125 16.7 13.0 19.6



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: 0.77 ng

RT: 23.73 min Scan# 4178

Delta R.T. 0.01 min

Lab File: BE088158.D

Acq: 22 Oct 2014 00:09

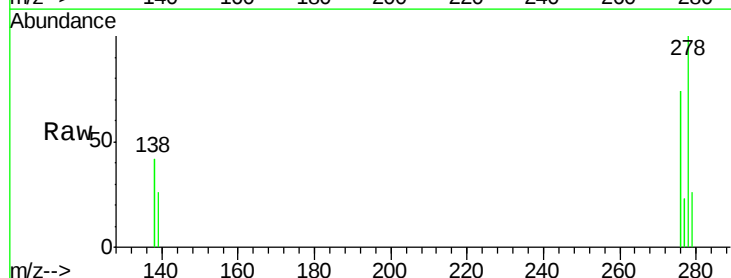
Tgt Ion:278 Resp: 8493

Ion Ratio Lower Upper

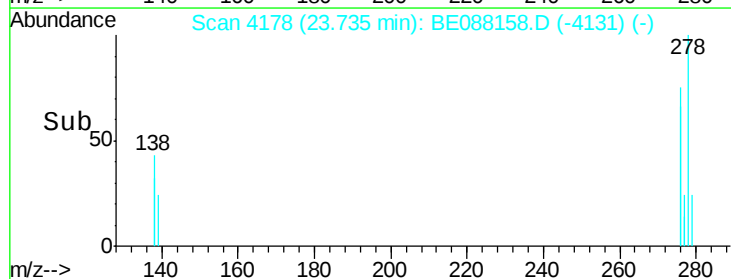
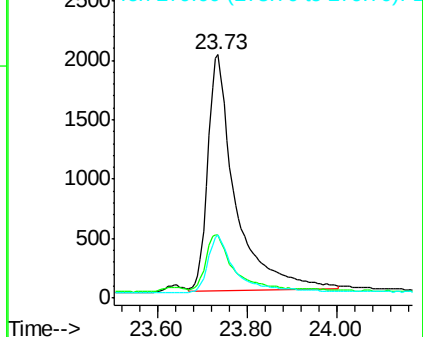
278 100

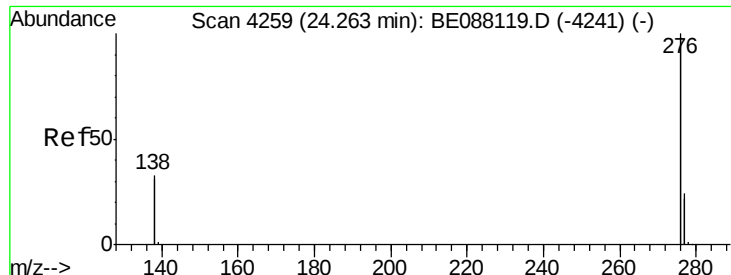
139 26.2 20.9 31.3

279 26.0 19.8 29.8



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: 0.86 ng

RT: 24.26 min Scan# 4259

Delta R.T. -0.00 min

Lab File: BE088158.D

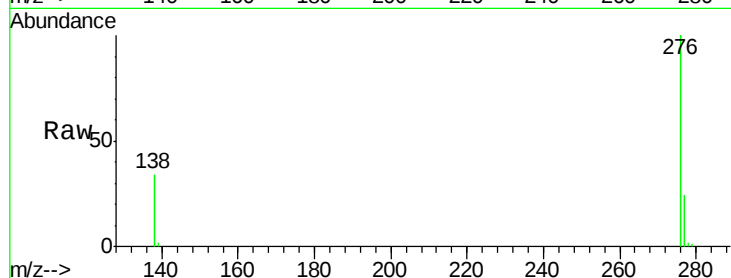
Acq: 22 Oct 2014 00:09

Instrument :

BNA_E

ClientSampleId :

SSTDCCC001EC



Tgt Ion: 276 Resp: 41715

Ion Ratio Lower Upper

276 100

277 24.4 19.2 28.8

138 33.8 26.6 40.0

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

