

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE102114\
 Data File : BE088155.D
 Acq On : 21 Oct 2014 22:28
 Operator : TP/JJ
 Sample : F4351-16
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 YS19-SW13-1014

Quant Time: Oct 22 04:39:35 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

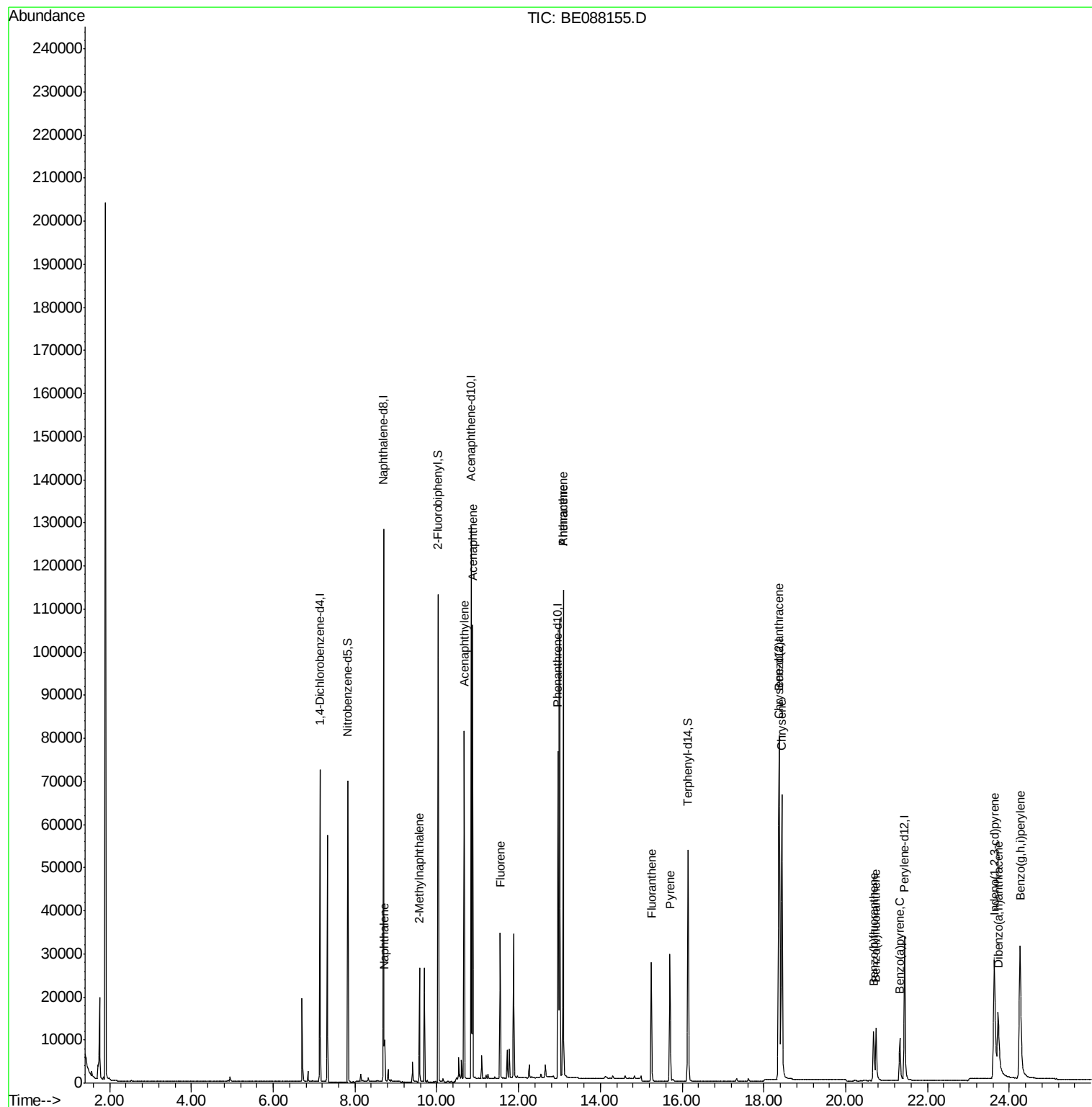
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.14	152	21149	5.00	ng	0.00
3) Naphthalene-d8	8.70	136	90299	5.00	ng	0.00
7) Acenaphthene-d10	10.85	164	47900	5.00	ng	0.00
12) Phenanthrene-d10	12.96	188	90501	5.00	ng	0.00
16) Chrysene-d12	18.38	240	54947	5.00	ng	0.00
22) Perylene-d12	21.44	264	45208	5.00	ng	0.00
System Monitoring Compounds						
4) Nitrobenzene-d5	7.82	82	29404	4.52	ng	0.00
8) 2-Fluorobiphenyl	10.03	172	63745	4.82	ng	0.00
18) Terphenyl-d14	16.15	244	68683	7.77	ng	0.00
Target Compounds						Qvalue
5) Naphthalene	8.72	128	10207	0.55	ng	99
6) 2-Methylnaphthalene	9.58	142	10640	0.95	ng	98
9) Acenaphthylene	10.67	152	80264	1.10	ng	100
10) Acenaphthene	10.88	154	12965	1.15	ng	99
11) Fluorene	11.55	166	16365	1.37	ng	100
13) Phenanthrene	13.09	178	106064	1.43	ng	96
14) Anthracene	13.09	178	106064	1.50	ng	100
15) Fluoranthene	15.25	202	26215	1.52	ng	99
17) Pyrene	15.70	202	27148	1.82	ng	99
19) Benzo(a)anthracene	18.36	228	81055	1.66	ng	100
20) Chrysene	18.44	228	80852	1.69	ng	100
21) Indeno(1,2,3-cd)pyrene	23.63	276	54375	1.02	ng	# 87
23) Benzo(b)fluoranthene	20.68	252	17185	1.60	ng	97
24) Benzo(k)fluoranthene	20.74	252	19382	1.68	ng	98
25) Benzo(a)pyrene	21.32	252	15856	1.60	ng	97
26) Dibenzo(a,h)anthracene	23.73	278	14884	1.53	ng	99
27) Benzo(g,h,i)perylene	24.26	276	67824	1.58	ng	99

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

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE102114\
Data File : BE088155.D
Acq On : 21 Oct 2014 22:28
Operator : TP/JJ
Sample : F4351-16
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_E
ClientSampleId :
YS19-SW13-1014

Quant Time: Oct 22 04:39:35 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





#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 7.14 min Scan# 1258

Delta R.T. 0.00 min

Lab File: BE088155.D

Acq: 21 Oct 2014 22:28

Instrument :

BNA_E

ClientSampleId :

YS19-SW13-1014

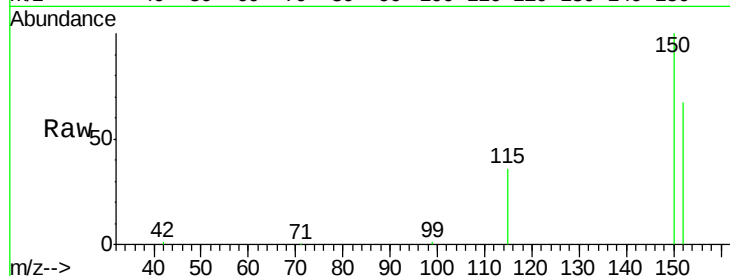
Tgt Ion:152 Resp: 21149

Ion Ratio Lower Upper

152 100

150 148.5 129.2 193.8

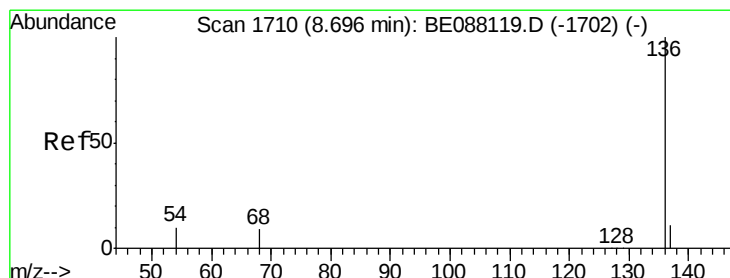
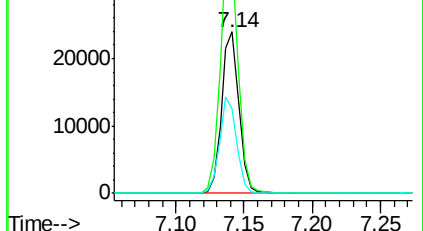
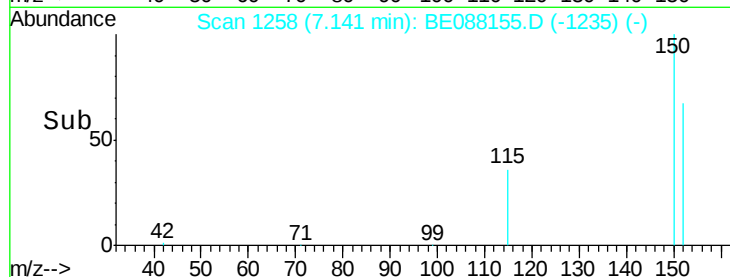
115 53.1 49.3 73.9



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



#3

Naphthalene-d8

Concen: 5.00 ng

RT: 8.70 min Scan# 1711

Delta R.T. 0.00 min

Lab File: BE088155.D

Acq: 21 Oct 2014 22:28

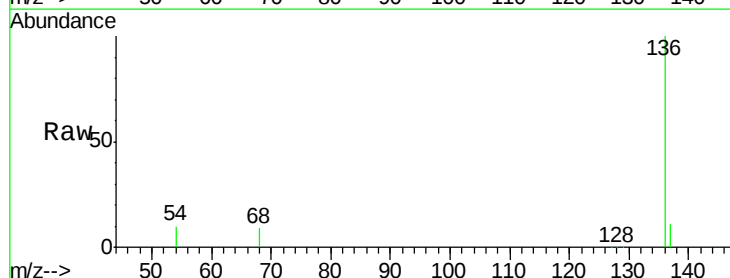
Tgt Ion:136 Resp: 90299

Ion Ratio Lower Upper

136 100

137 10.6 8.6 12.8

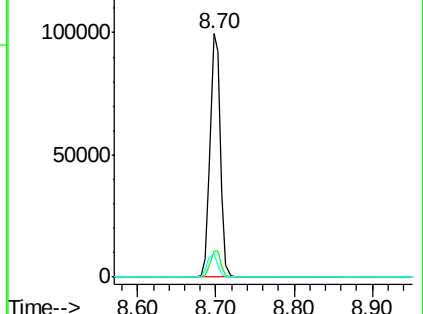
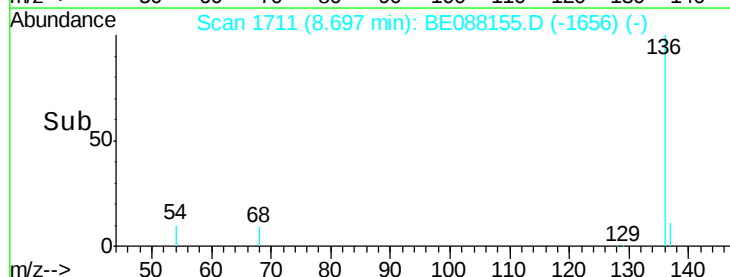
54 9.6 7.7 11.5

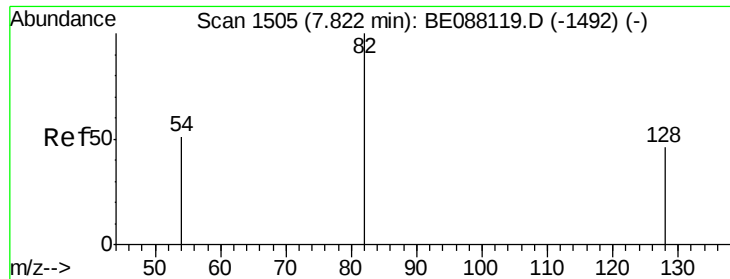


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BE0





#4

Nitrobenzene-d5

Concen: 4.52 ng

RT: 7.82 min Scan# 1506

Delta R.T. 0.00 min

Lab File: BE088155.D

Acq: 21 Oct 2014 22:28

Instrument :

BNA_E

ClientSampleId :

YS19-SW13-1014

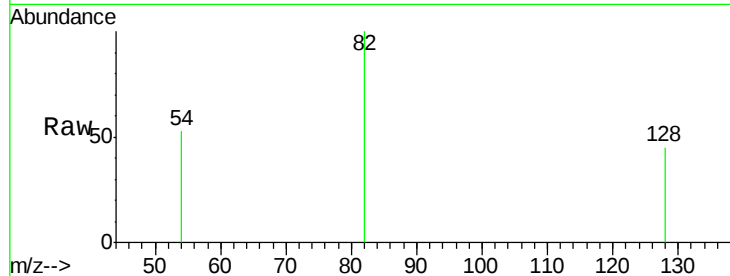
Tgt Ion: 82 Resp: 29404

Ion Ratio Lower Upper

82 100

128 45.5 37.1 55.7

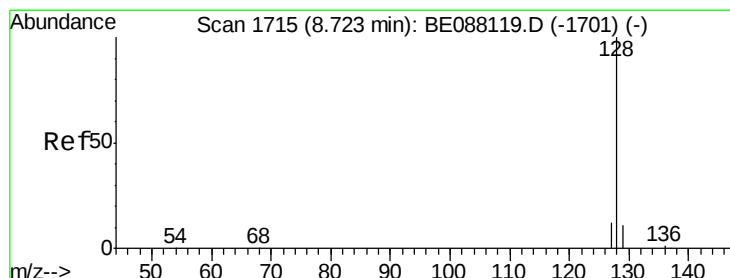
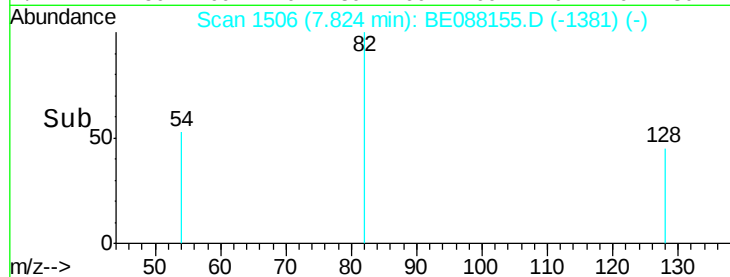
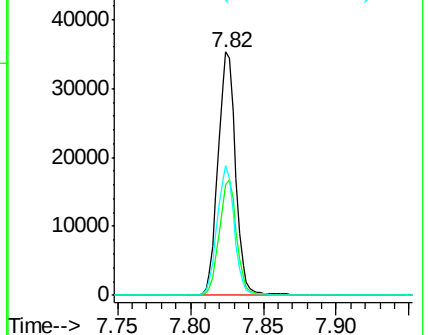
54 53.1 41.1 61.7



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: 0.55 ng

RT: 8.72 min Scan# 1716

Delta R.T. 0.00 min

Lab File: BE088155.D

Acq: 21 Oct 2014 22:28

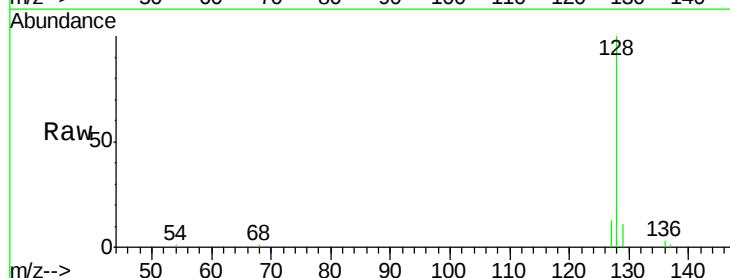
Tgt Ion: 128 Resp: 10207

Ion Ratio Lower Upper

128 100

129 11.1 8.9 13.3

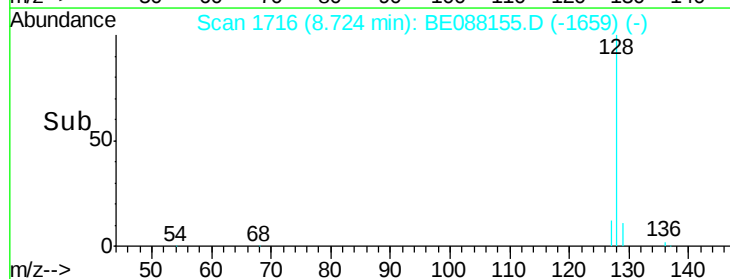
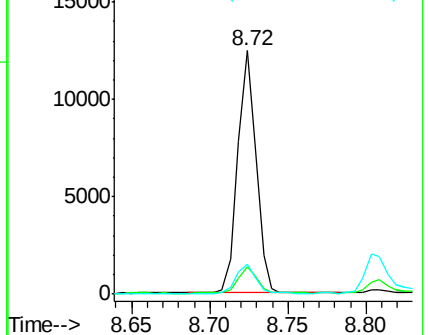
127 12.5 9.7 14.5

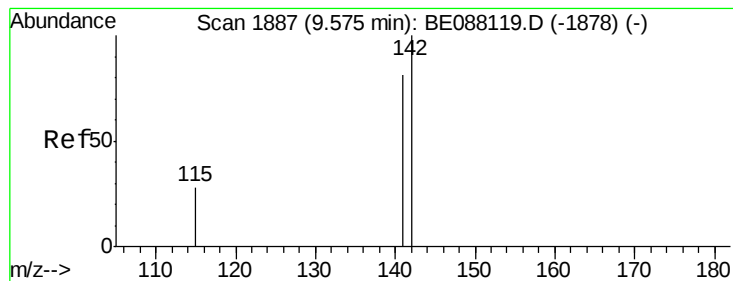


Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E





#6

2-Methylnaphthalene

Concen: 0.95 ng

RT: 9.58 min Scan# 1888

Delta R.T. -0.00 min

Lab File: BE088155.D

Acq: 21 Oct 2014 22:28

Instrument :

BNA_E

ClientSampleId :

YS19-SW13-1014

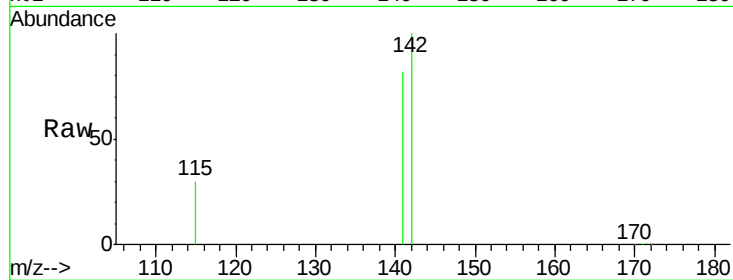
Tgt Ion:142 Resp: 10640

Ion Ratio Lower Upper

142 100

141 82.0 64.6 97.0

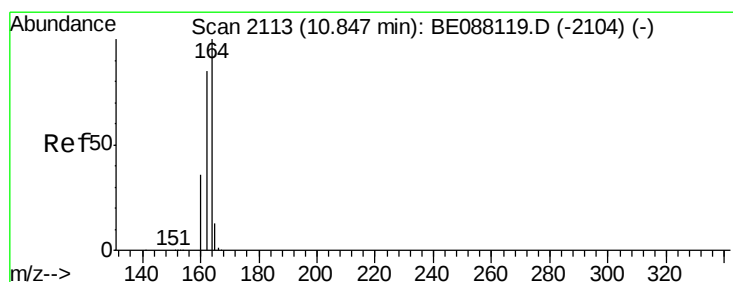
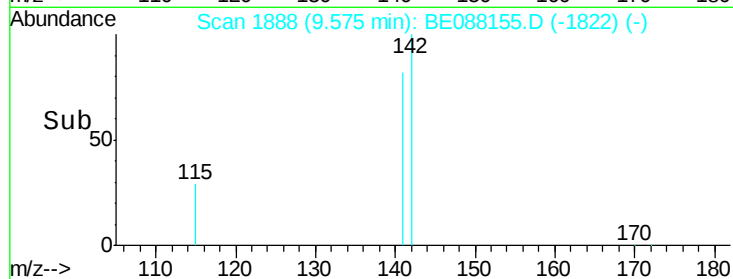
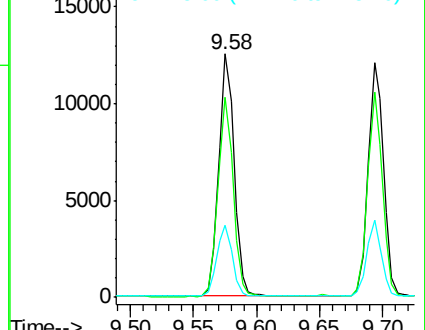
115 29.8 22.6 34.0



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# 2114

Delta R.T. -0.00 min

Lab File: BE088155.D

Acq: 21 Oct 2014 22:28

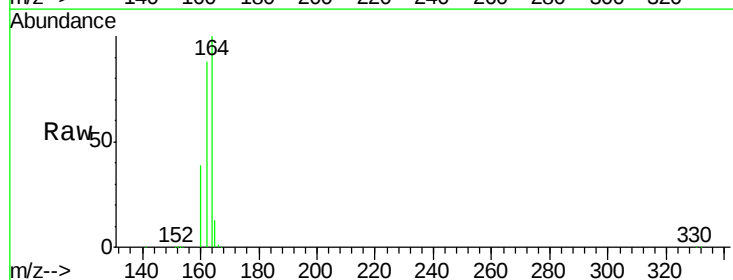
Tgt Ion:164 Resp: 47900

Ion Ratio Lower Upper

164 100

162 87.9 68.3 102.5

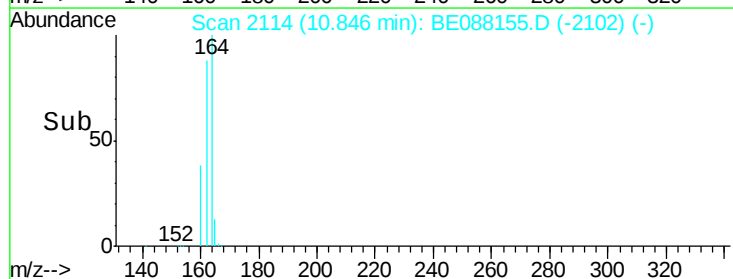
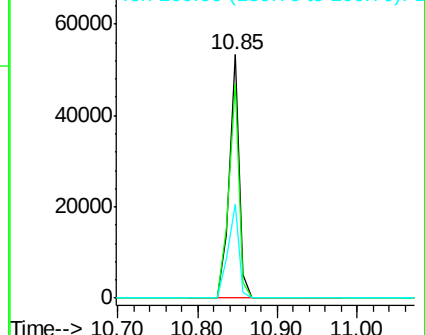
160 38.5 28.7 43.1



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

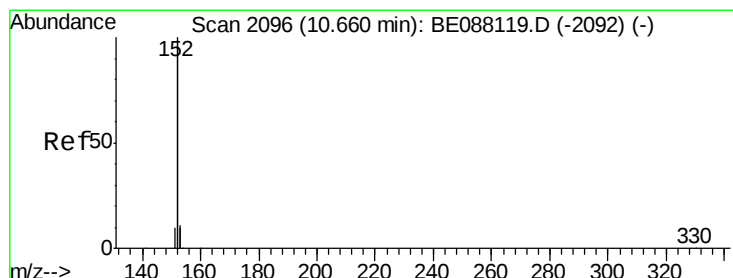
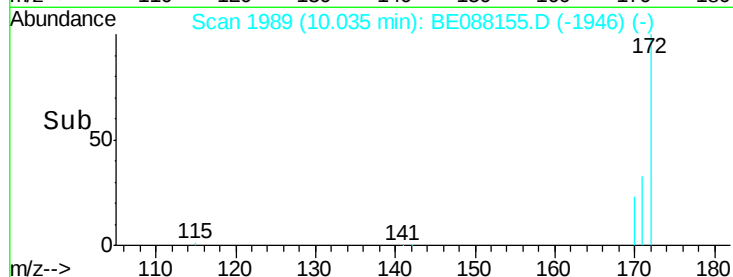
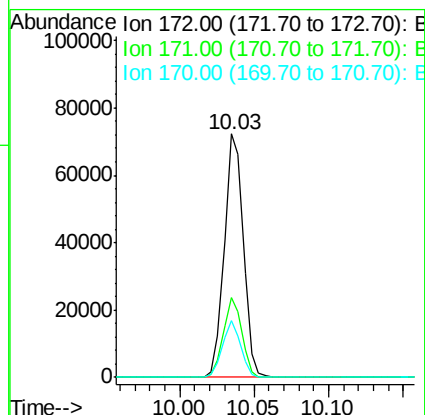
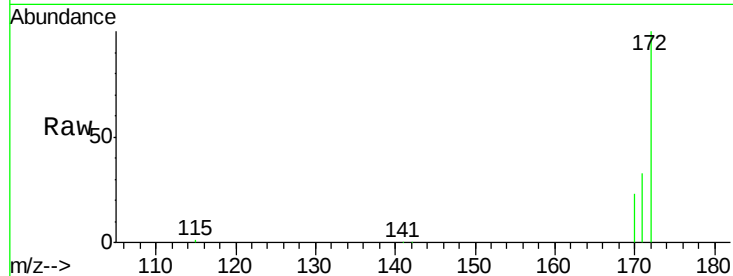




#8
2-Fluorobiphenyl
Concen: 4.82 ng
RT: 10.03 min Scan# 1989
Delta R.T. -0.00 min
Lab File: BE088155.D
Acq: 21 Oct 2014 22:28

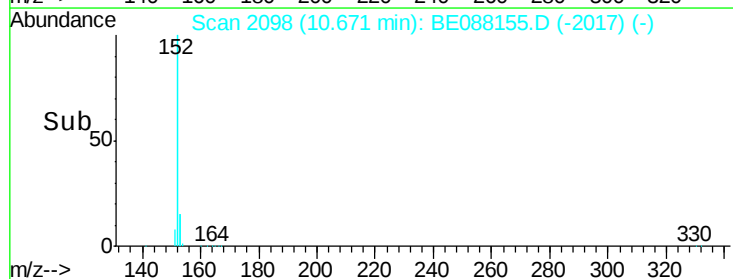
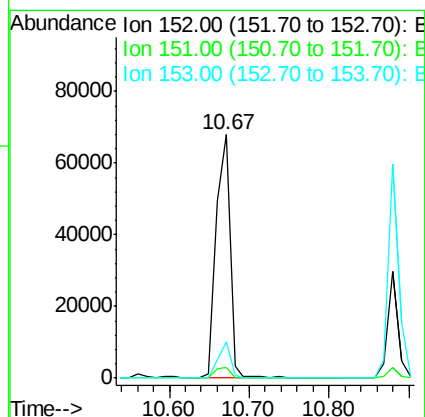
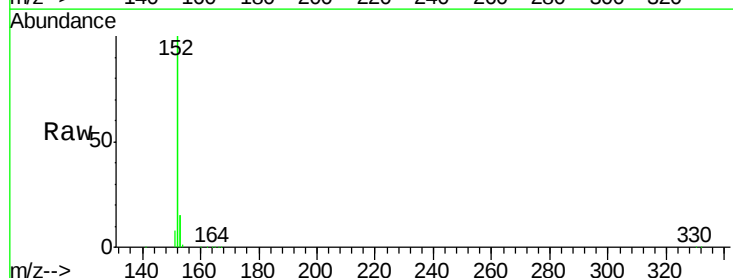
Instrument :
BNA_E
ClientSampleId :
YS19-SW13-1014

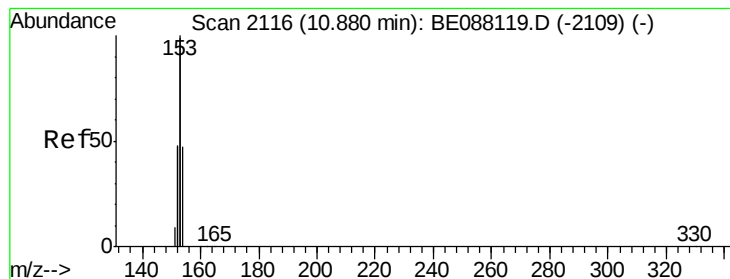
Tgt Ion:172 Resp: 63745
Ion Ratio Lower Upper
172 100
171 33.0 25.4 38.2
170 23.1 17.4 26.2



#9
Acenaphthylene
Concen: 1.10 ng
RT: 10.67 min Scan# 2098
Delta R.T. 0.01 min
Lab File: BE088155.D
Acq: 21 Oct 2014 22:28

Tgt Ion:152 Resp: 80264
Ion Ratio Lower Upper
152 100
151 4.8 3.7 5.5
153 13.0 10.4 15.6





#10

Acenaphthene

Concen: 1.15 ng

RT: 10.88 min Scan# 2117

Delta R.T. -0.00 min

Lab File: BE088155.D

Acq: 21 Oct 2014 22:28

Instrument :

BNA_E

ClientSampleId :

YS19-SW13-1014

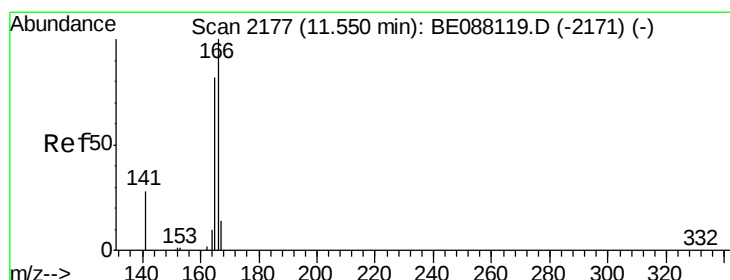
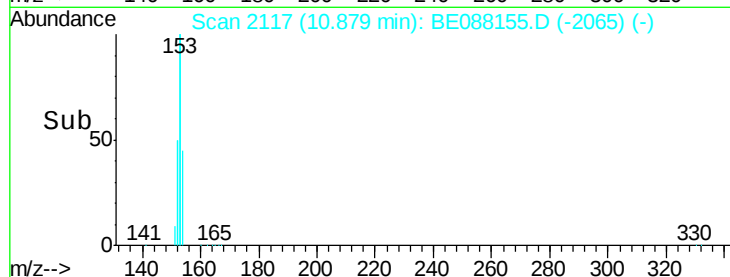
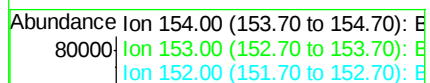
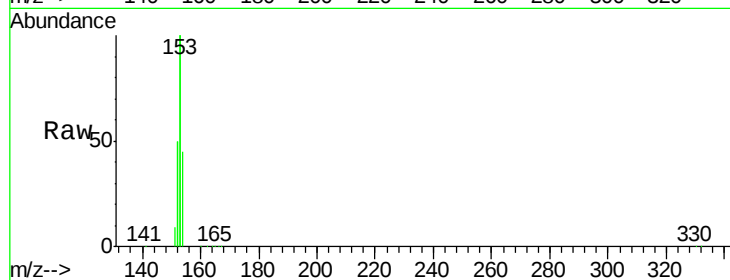
Tgt Ion:154 Resp: 12965

Ion Ratio Lower Upper

154 100

153 406.5 327.8 491.6

152 194.4 157.6 236.4



#11

Fluorene

Concen: 1.37 ng

RT: 11.55 min Scan# 2178

Delta R.T. -0.00 min

Lab File: BE088155.D

Acq: 21 Oct 2014 22:28

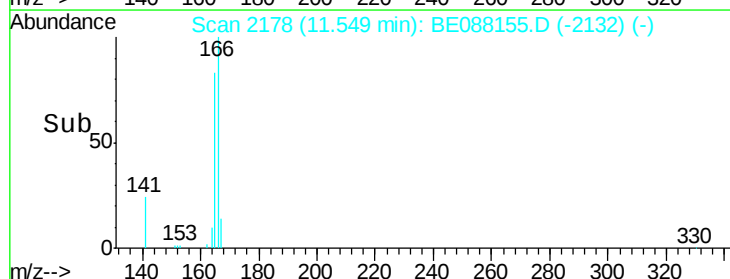
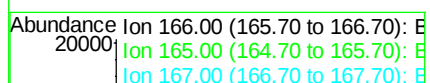
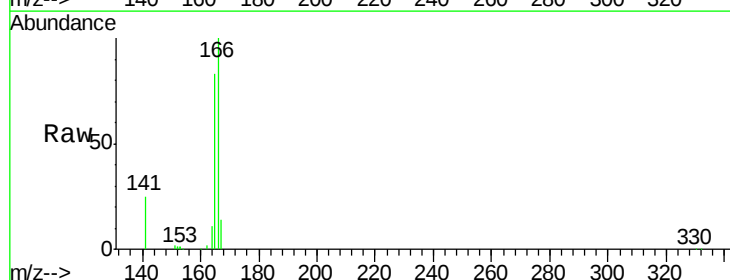
Tgt Ion:166 Resp: 16365

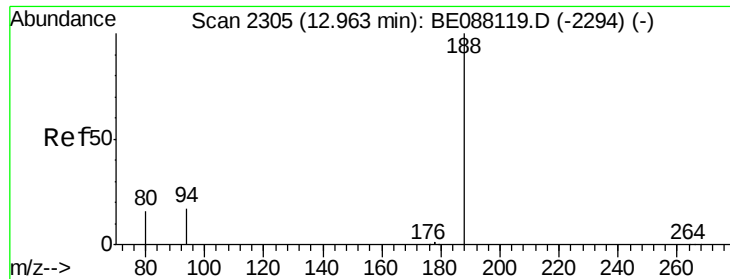
Ion Ratio Lower Upper

166 100

165 89.0 71.4 107.2

167 14.0 10.6 16.0

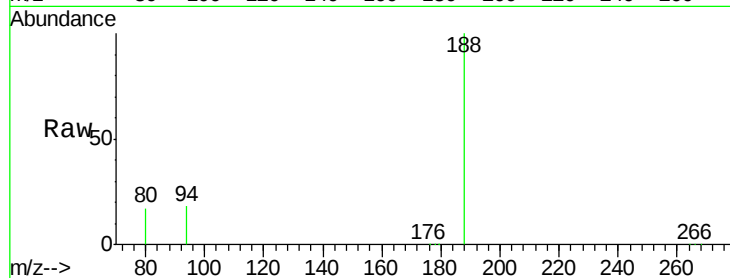




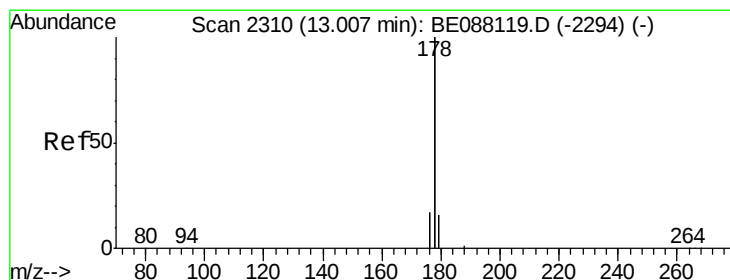
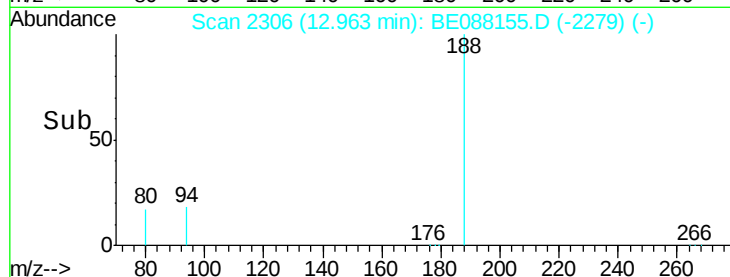
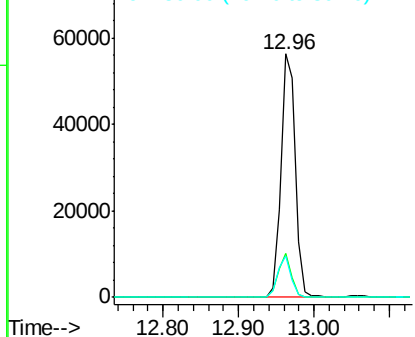
#12
Phenanthrene-d10
Concen: 5.00 ng
RT: 12.96 min Scan# 2306
Delta R.T. -0.00 min
Lab File: BE088155.D
Acq: 21 Oct 2014 22:28

Instrument :
BNA_E
ClientSampleId :
YS19-SW13-1014

Tgt Ion:188 Resp: 90501
Ion Ratio Lower Upper
188 100
94 18.1 13.9 20.9
80 16.8 12.9 19.3

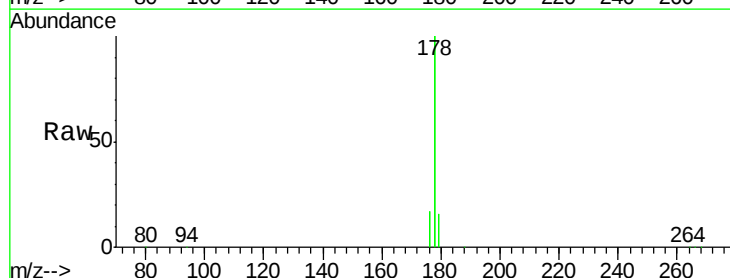


Abundance Ion 188.00 (187.70 to 188.70): E
Ion 94.00 (93.70 to 94.70): BE0
Ion 80.00 (79.70 to 80.70): BE0

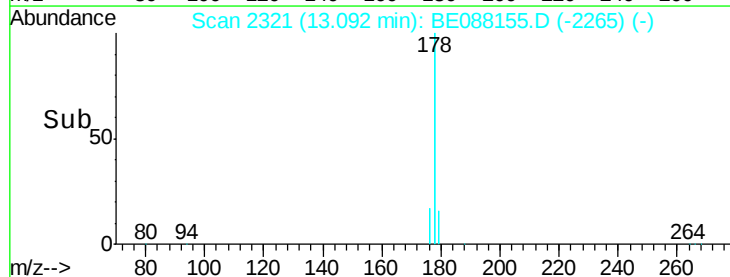
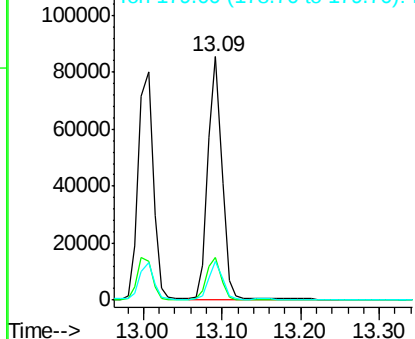


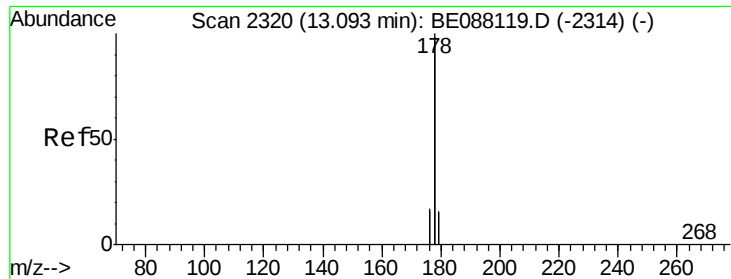
#13
Phenanthrene
Concen: 1.43 ng
RT: 13.09 min Scan# 2321
Delta R.T. 0.09 min
Lab File: BE088155.D
Acq: 21 Oct 2014 22:28

Tgt Ion:178 Resp: 106064
Ion Ratio Lower Upper
178 100
176 18.1 12.5 18.7
179 15.7 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: 1.50 ng

RT: 13.09 min Scan# 2321

Delta R.T. -0.00 min

Lab File: BE088155.D

Acq: 21 Oct 2014 22:28

Instrument :

BNA_E

ClientSampleId :

YS19-SW13-1014

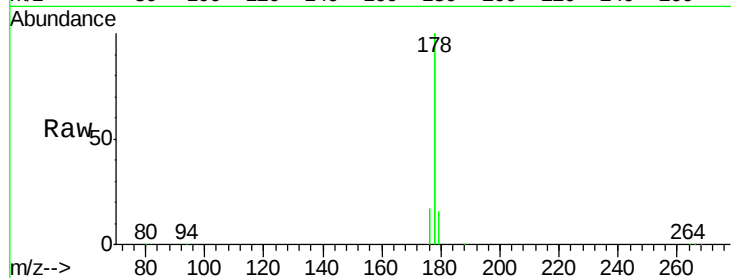
Tgt Ion:178 Resp: 106064

Ion Ratio Lower Upper

178 100

176 18.1 14.6 21.8

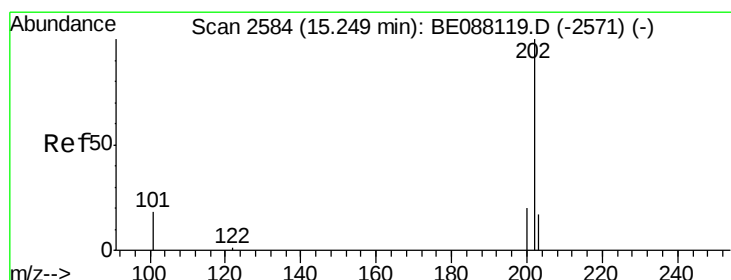
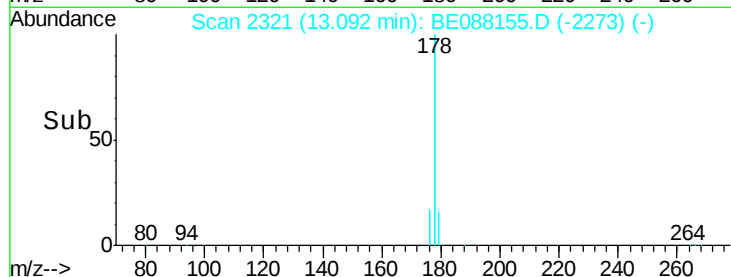
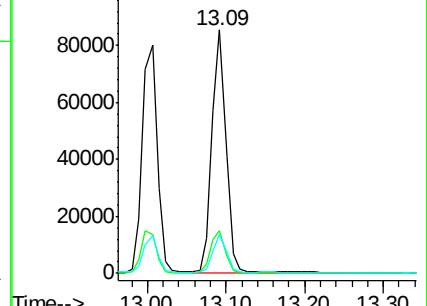
179 15.7 12.5 18.7



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: 1.52 ng

RT: 15.25 min Scan# 2585

Delta R.T. -0.00 min

Lab File: BE088155.D

Acq: 21 Oct 2014 22:28

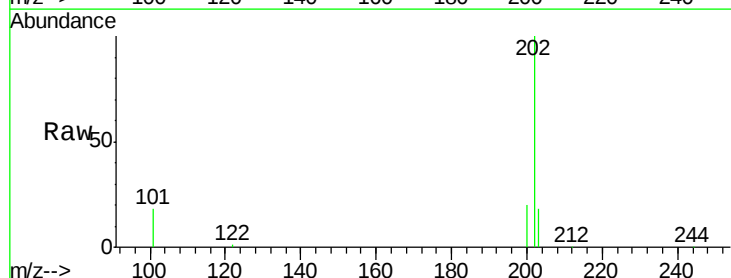
Tgt Ion:202 Resp: 26215

Ion Ratio Lower Upper

202 100

101 18.4 14.8 22.2

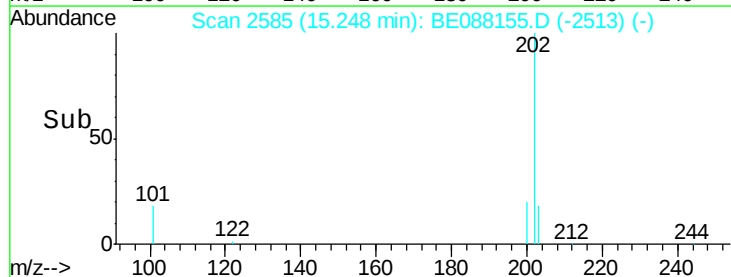
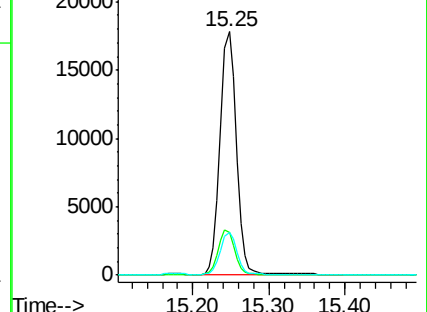
203 17.2 13.5 20.3

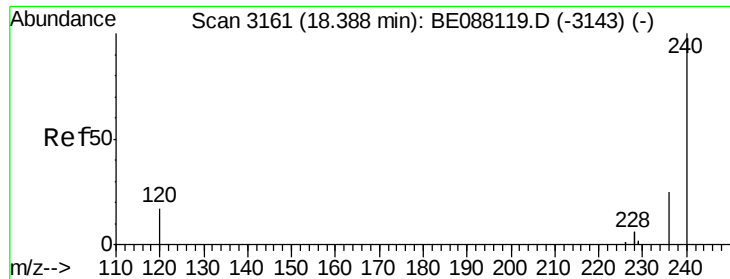


Abundance Ion 202.00 (201.70 to 202.70): E

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# 3161

Delta R.T. -0.01 min

Lab File: BE088155.D

Acq: 21 Oct 2014 22:28

Instrument :

BNA_E

ClientSampleId :

YS19-SW13-1014

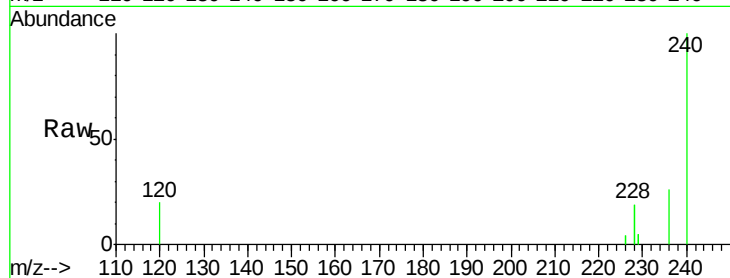
Tgt Ion:240 Resp: 54947

Ion Ratio Lower Upper

240 100

120 20.4 13.9 20.9

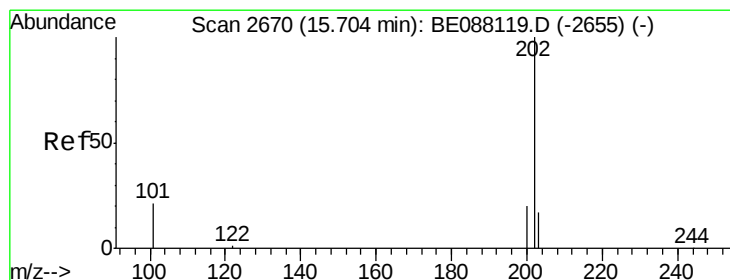
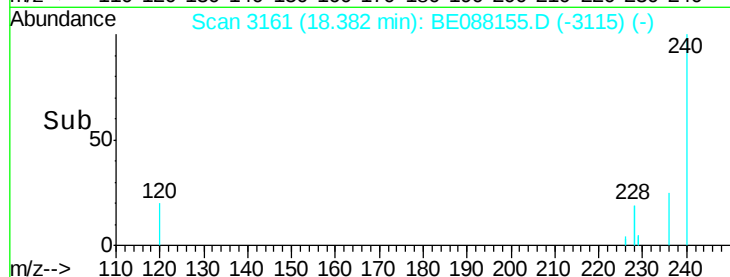
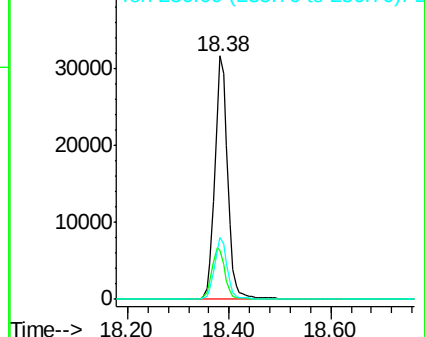
236 25.5 19.9 29.9



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: 1.82 ng

RT: 15.70 min Scan# 2671

Delta R.T. -0.00 min

Lab File: BE088155.D

Acq: 21 Oct 2014 22:28

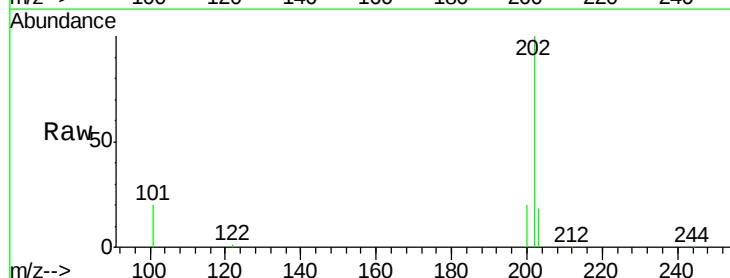
Tgt Ion:202 Resp: 27148

Ion Ratio Lower Upper

202 100

200 20.0 16.1 24.1

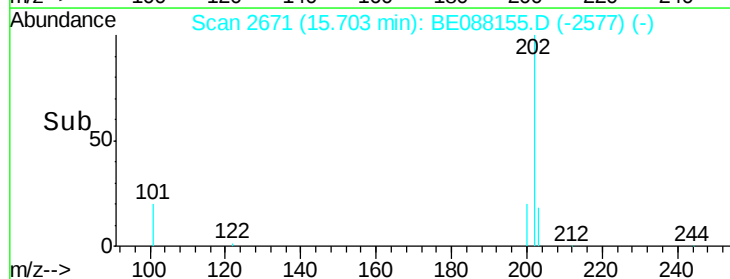
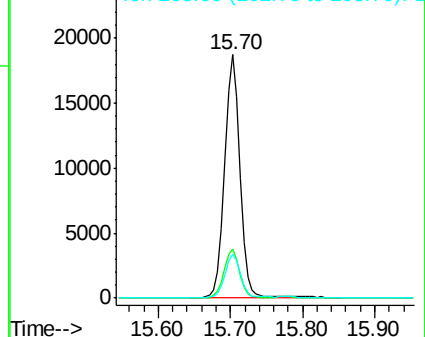
203 17.9 13.9 20.9

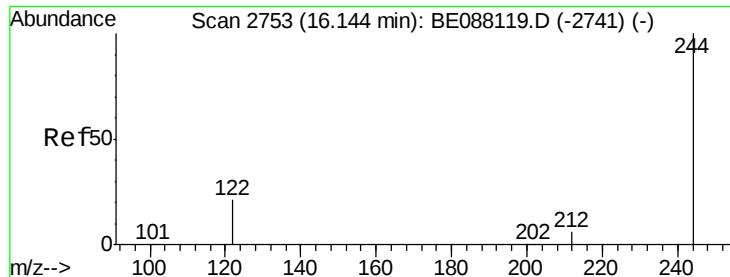


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#18

Terphenyl-d14

Concen: 7.77 ng

RT: 16.15 min Scan# 2755

Delta R.T. 0.00 min

Lab File: BE088155.D

Acq: 21 Oct 2014 22:28

Instrument :

BNA_E

ClientSampleId :

YS19-SW13-1014

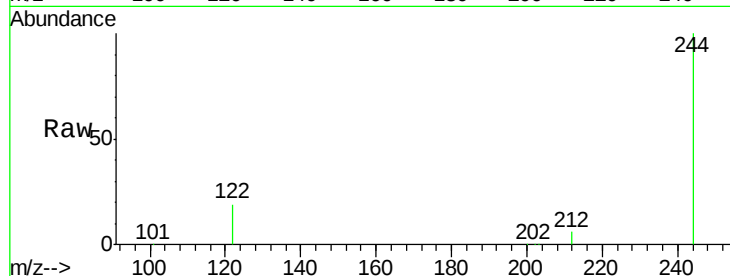
Tgt Ion:244 Resp: 68683

Ion Ratio Lower Upper

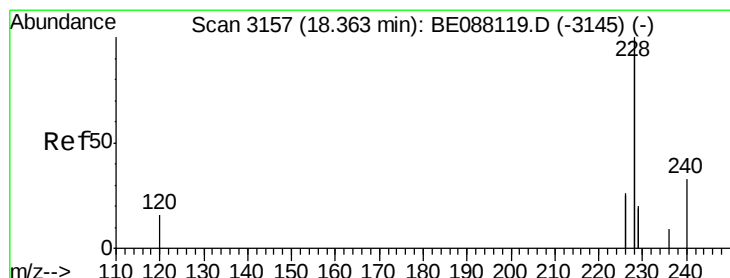
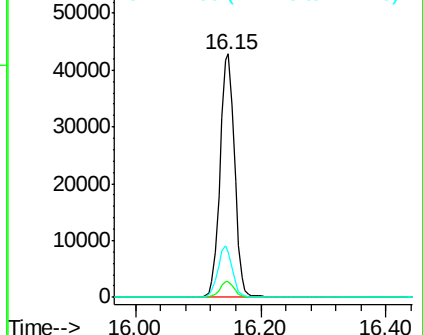
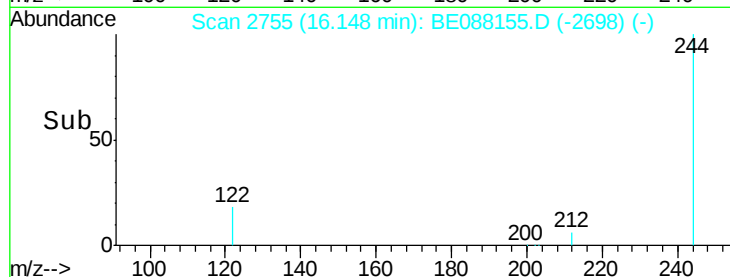
244 100

212 6.2 5.4 8.0

122 18.6 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: 1.66 ng

RT: 18.36 min Scan# 3158

Delta R.T. -0.00 min

Lab File: BE088155.D

Acq: 21 Oct 2014 22:28

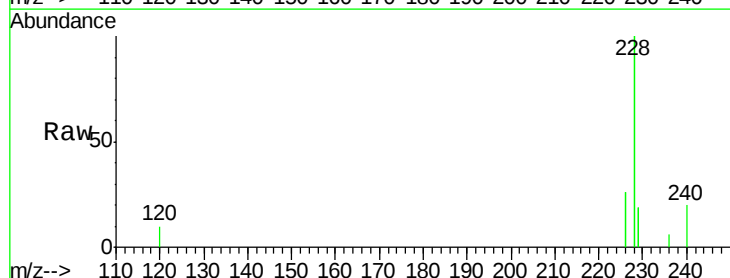
Tgt Ion:228 Resp: 81055

Ion Ratio Lower Upper

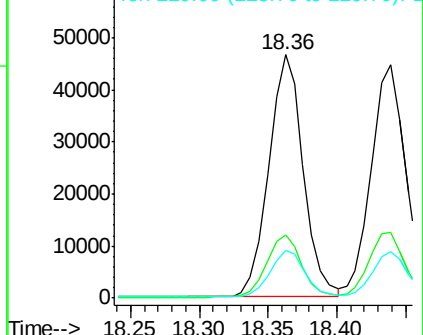
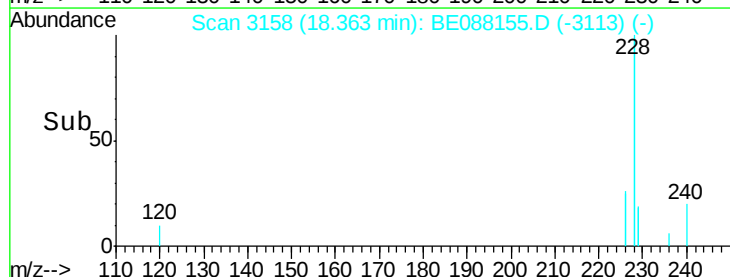
228 100

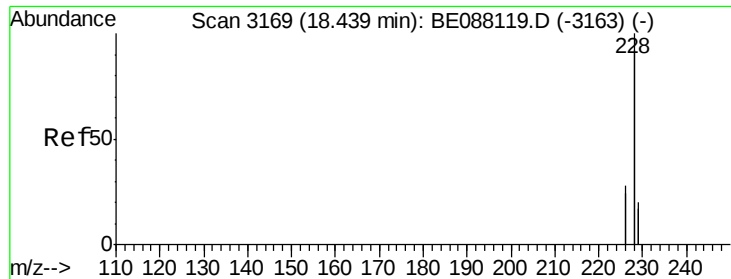
226 25.9 20.8 31.2

229 19.5 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: 1.69 ng

RT: 18.44 min Scan# 3170

Delta R.T. -0.00 min

Lab File: BE088155.D

Acq: 21 Oct 2014 22:28

Instrument :

BNA_E

ClientSampleId :

YS19-SW13-1014

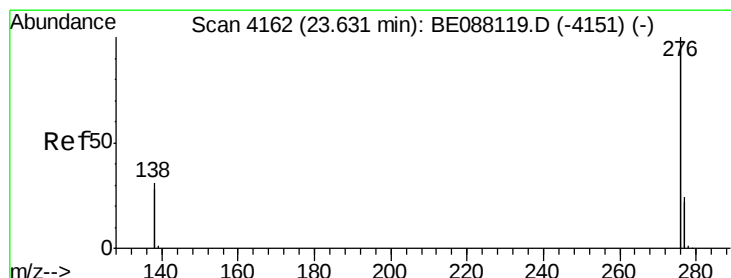
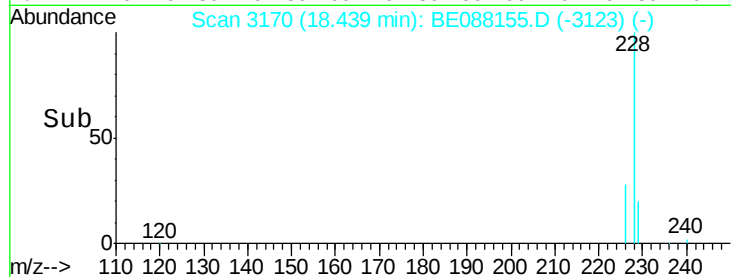
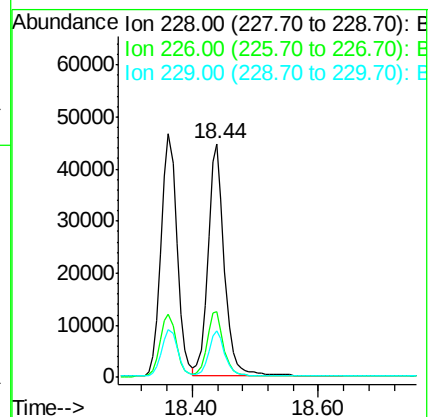
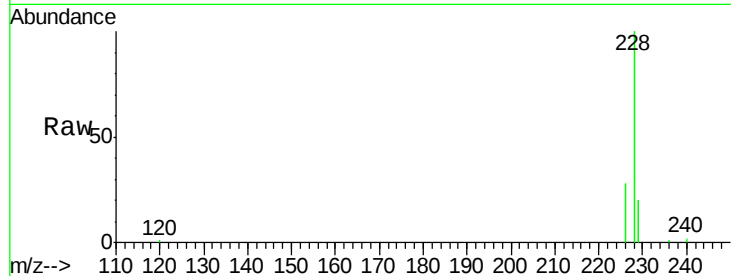
Tgt Ion:228 Resp: 80852

Ion Ratio Lower Upper

228 100

226 28.1 22.7 34.1

229 19.8 15.8 23.6



#21

Indeno(1,2,3-cd)pyrene

Concen: 1.02 ng

RT: 23.63 min Scan# 4163

Delta R.T. -0.00 min

Lab File: BE088155.D

Acq: 21 Oct 2014 22:28

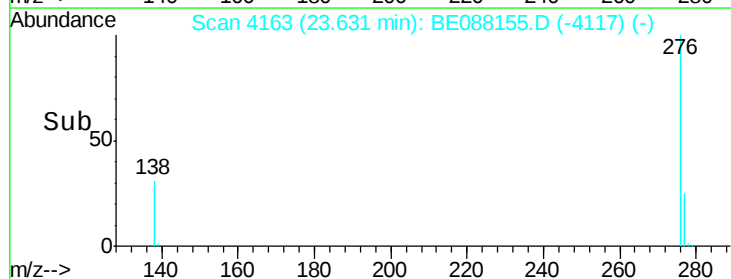
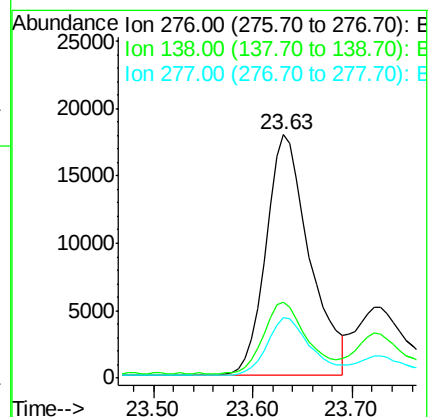
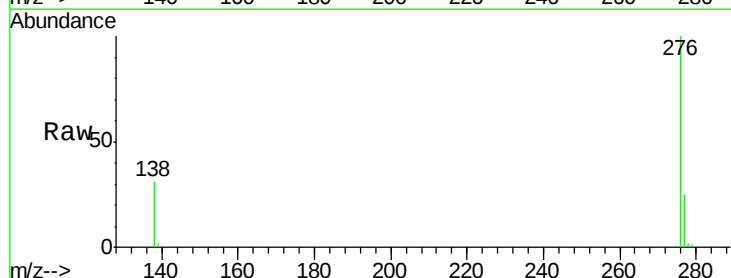
Tgt Ion:276 Resp: 54375

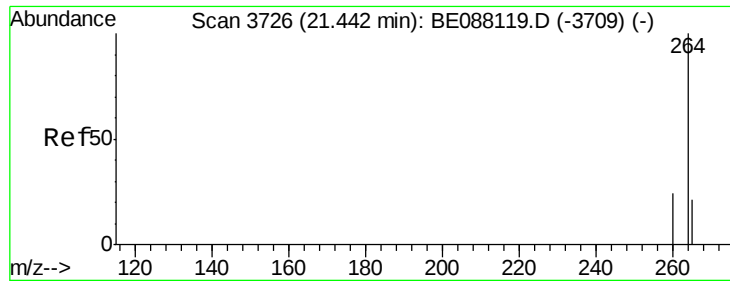
Ion Ratio Lower Upper

276 100

138 29.3 18.5 27.7#

277 23.8 14.6 21.8#

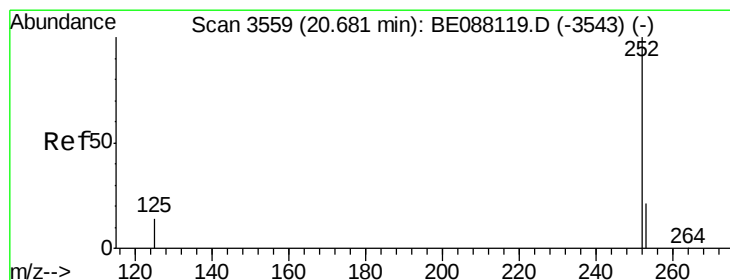
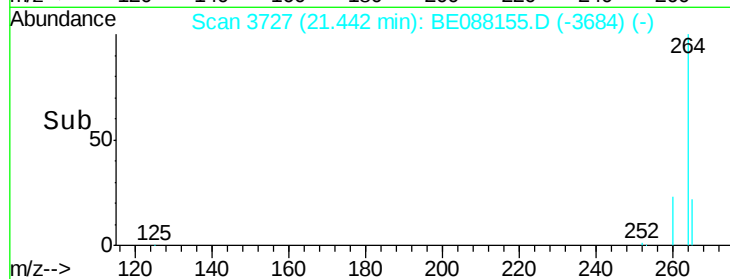
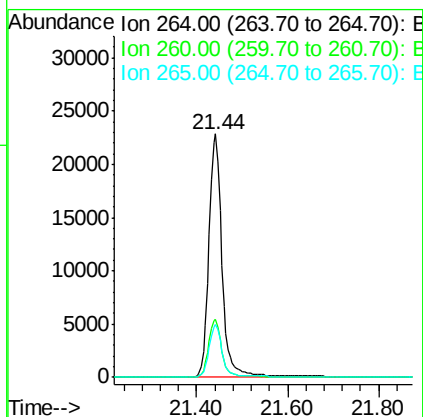
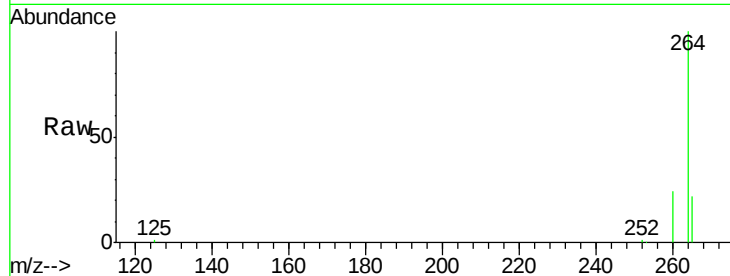




#22
 Perylene-d12
 Concen: 5.00 ng
 RT: 21.44 min Scan# 3727
 Delta R.T. -0.00 min
 Lab File: BE088155.D
 Acq: 21 Oct 2014 22:28

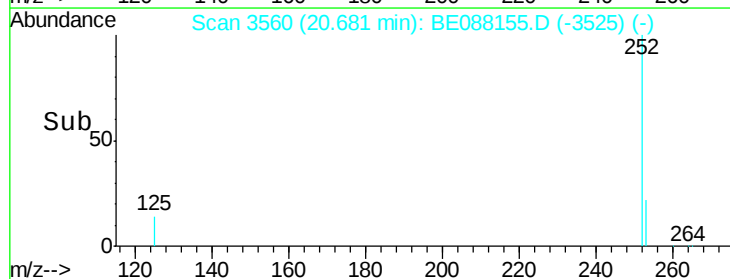
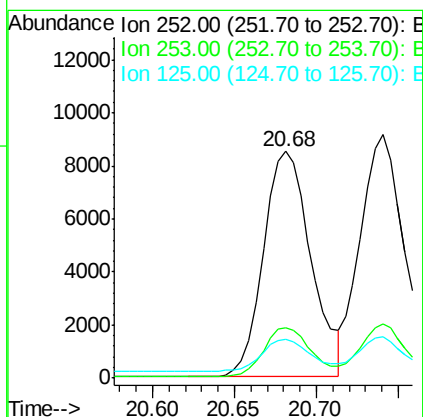
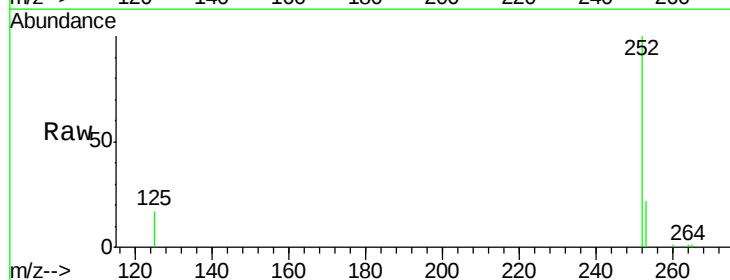
Instrument :
 BNA_E
 ClientSampleId :
 YS19-SW13-1014

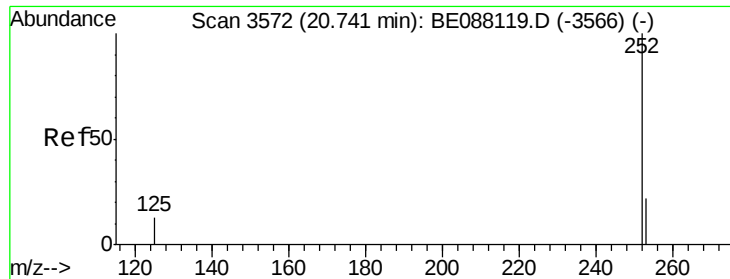
Tgt Ion: 264 Resp: 45208
 Ion Ratio Lower Upper
 264 100
 260 23.6 19.0 28.4
 265 21.8 17.2 25.8



#23
 Benzo(b)fluoranthene
 Concen: 1.60 ng
 RT: 20.68 min Scan# 3560
 Delta R.T. -0.00 min
 Lab File: BE088155.D
 Acq: 21 Oct 2014 22:28

Tgt Ion: 252 Resp: 17185
 Ion Ratio Lower Upper
 252 100
 253 22.2 17.4 26.0
 125 17.1 11.8 17.8





#24

Benzo(k)fluoranthene

Concen: 1.68 ng

RT: 20.74 min Scan# 3573

Delta R.T. -0.00 min

Lab File: BE088155.D

Acq: 21 Oct 2014 22:28

Instrument :

BNA_E

ClientSampleId :

YS19-SW13-1014

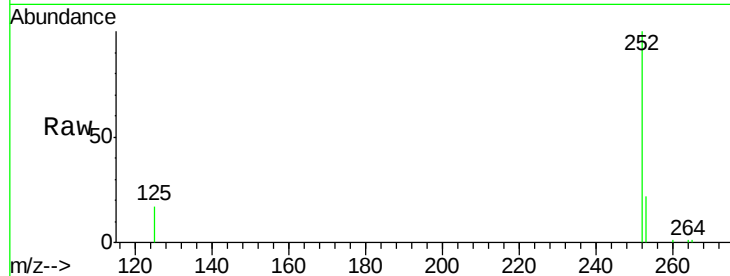
Tgt Ion:252 Resp: 19382

Ion Ratio Lower Upper

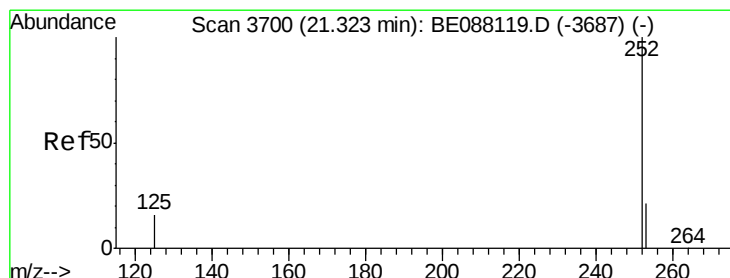
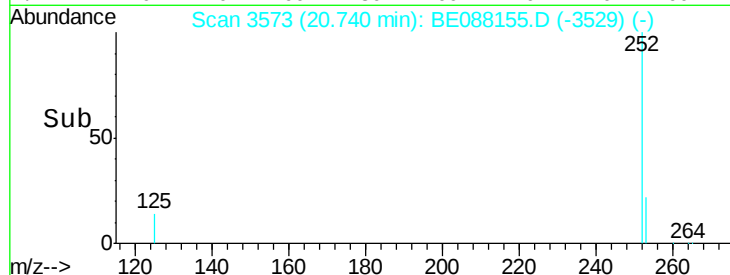
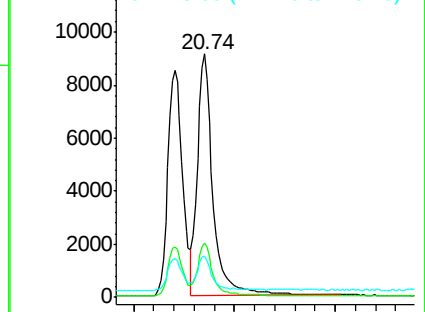
252 100

253 22.1 17.6 26.4

125 16.8 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: 1.60 ng

RT: 21.32 min Scan# 3701

Delta R.T. -0.00 min

Lab File: BE088155.D

Acq: 21 Oct 2014 22:28

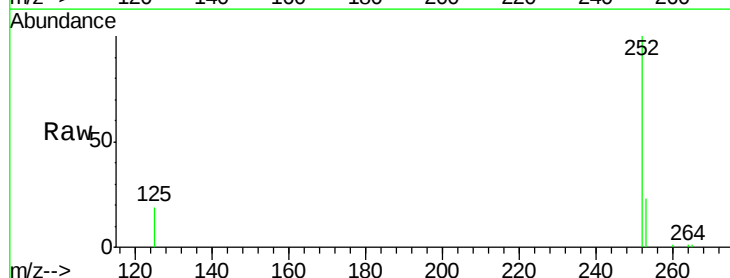
Tgt Ion:252 Resp: 15856

Ion Ratio Lower Upper

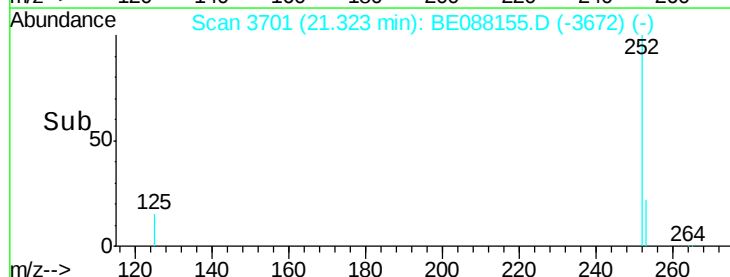
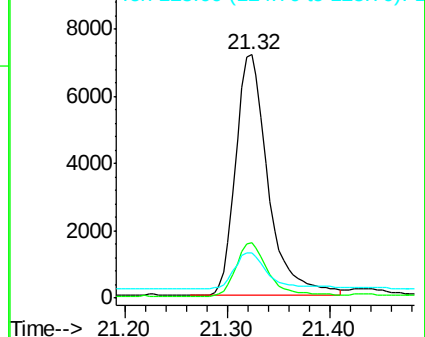
252 100

253 22.7 17.5 26.3

125 18.6 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



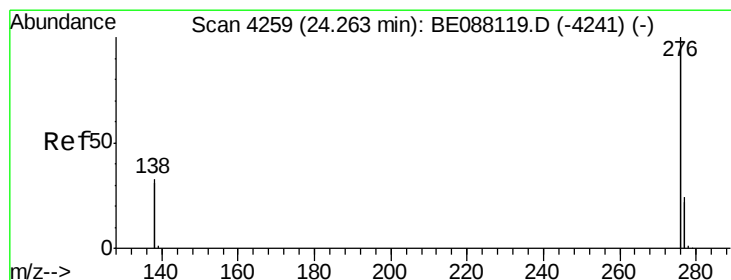
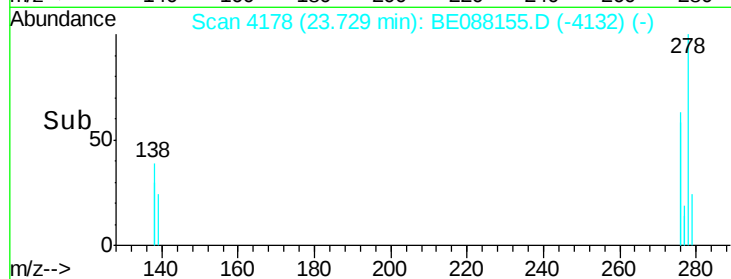
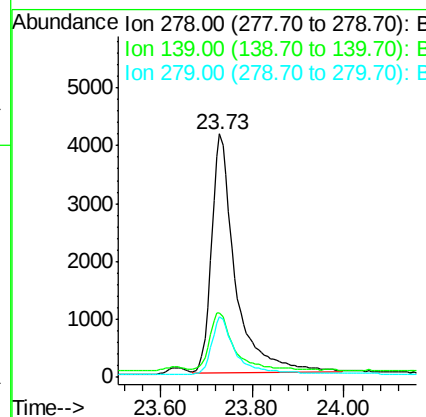
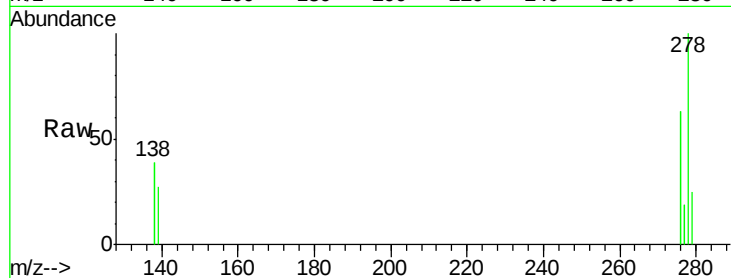


#26
Dibenzo(a,h)anthracene
Concen: 1.53 ng
RT: 23.73 min Scan# 4178
Delta R.T. -0.00 min
Lab File: BE088155.D
Acq: 21 Oct 2014 22:28

Instrument :
BNA_E
ClientSampleId :
YS19-SW13-1014

Tgt Ion: 278 Resp: 14884

Ion	Ratio	Lower	Upper
278	100		
139	26.7	20.9	31.3
279	24.8	19.8	29.8



#27
Benzo(g,h,i)perylene
Concen: 1.58 ng
RT: 24.26 min Scan# 4260
Delta R.T. -0.00 min
Lab File: BE088155.D
Acq: 21 Oct 2014 22:28

Tgt Ion: 276 Resp: 67824

Ion	Ratio	Lower	Upper
276	100		
277	24.4	19.2	28.8
138	33.8	26.6	40.0

