

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE102014\
 Data File : BE088128.D
 Acq On : 21 Oct 2014 6:50
 Operator : TP/JJ
 Sample : F4303-08RE
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 YS19-SB08-1014

Quant Time: Oct 21 07:40:33 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	36457	5.00	ng	0.00
3) Naphthalene-d8	8.70	136	129983	5.00	ng	0.00
7) Acenaphthene-d10	10.85	164	59112	5.00	ng	0.00
12) Phenanthrene-d10	12.96	188	106838	5.00	ng	0.00
16) Chrysene-d12	18.38	240	70408	5.00	ng	0.00
22) Perylene-d12	21.44	264	67896	5.00	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
4) Nitrobenzene-d5	7.83	82	526807	56.22	ng	0.00
8) 2-Fluorobiphenyl	10.04	172	645185	39.51	ng	0.00
18) Terphenyl-d14	16.16	244	472127	41.67	ng	0.01

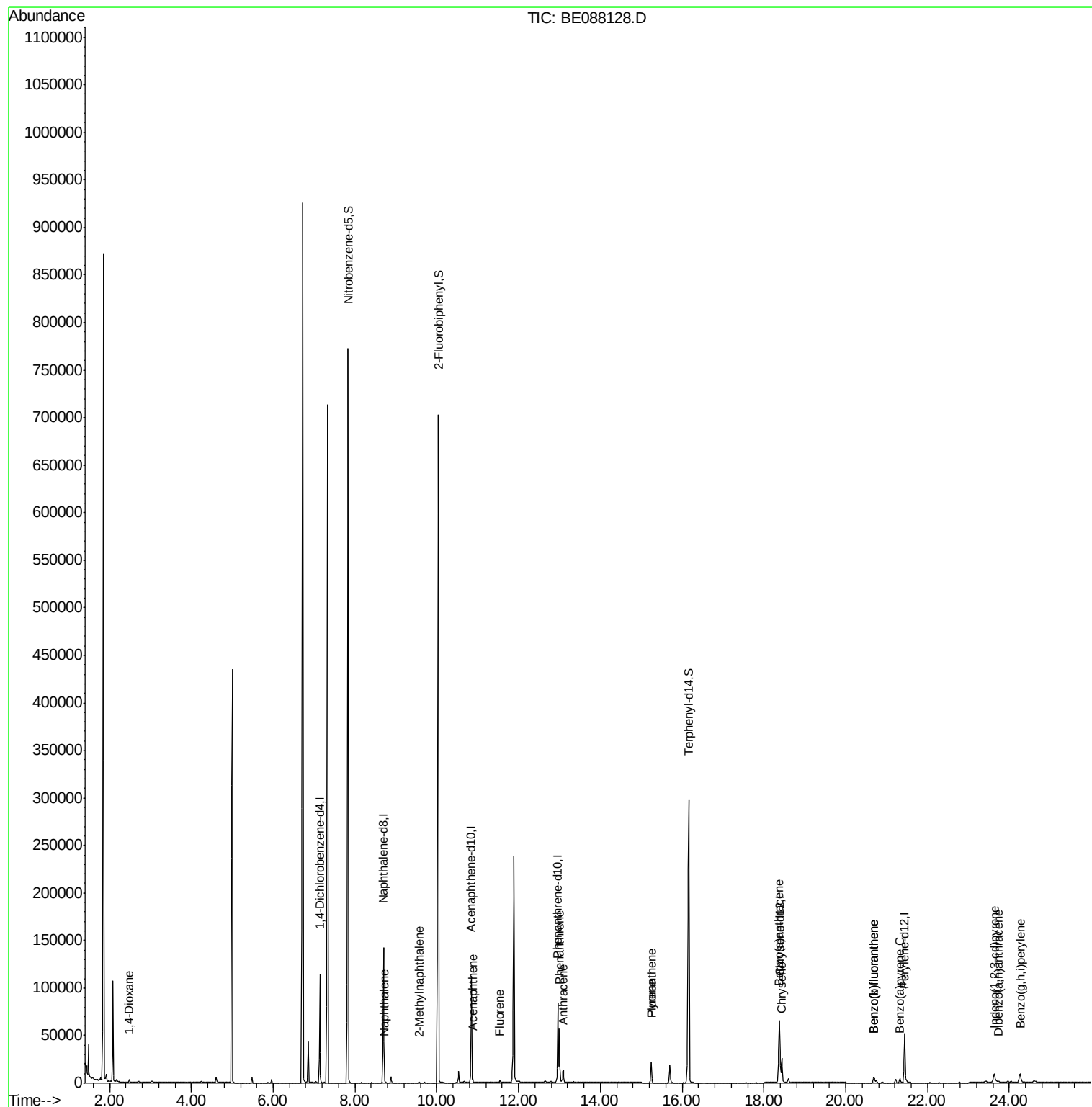
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 1,4-Dioxane	2.48	88	1791	0.34	ng	# 86
5) Naphthalene	8.72	128	1627	0.06	ng	# 93
6) 2-Methylnaphthalene	9.58	142	596	0.04	ng	# 96
10) Acenaphthene	10.88	154	1324	0.10	ng	# 69
11) Fluorene	11.54	166	1089	0.07	ng	# 98
13) Phenanthrene	13.00	178	73719	0.74	ng	# 97
14) Anthracene	13.09	178	14247	0.17	ng	# 90
15) Fluoranthene	15.25	202	21763	1.07	ng	100
17) Pyrene	15.25	202	21171	1.11	ng	100
19) Benzo(a)anthracene	18.36	228	33936	0.54	ng	98
20) Chrysene	18.43	228	34271	0.56	ng	97
21) Indeno(1,2,3-cd)pyrene	23.63	276	18818	0.28	ng	# 83
23) Benzo(b)fluoranthene	20.68	252	9993	0.62	ng	96
24) Benzo(k)fluoranthene	20.68	252	9996	0.58	ng	96
25) Benzo(a)pyrene	21.32	252	7042	0.47	ng	98
26) Dibenzo(a,h)anthracene	23.72	278	928	0.06	ng	# 76
27) Benzo(g,h,i)perylene	24.26	276	18852	0.29	ng	96

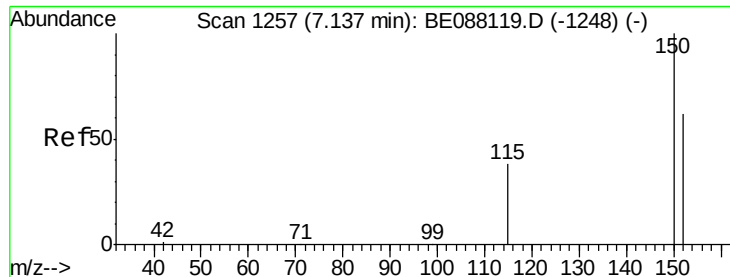
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 7.14 min Scan# 1258

Delta R.T. 0.00 min

Lab File: BE088128.D

Acq: 21 Oct 2014 6:50

Instrument :

BNA_E

ClientSampleId :

YS19-SB08-1014

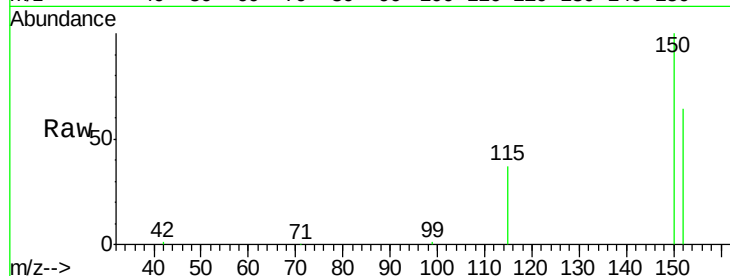
Tgt Ion: 152 Resp: 36457

Ion Ratio Lower Upper

152 100

150 156.7 129.2 193.8

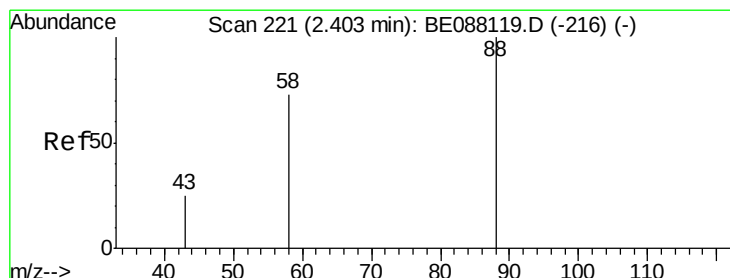
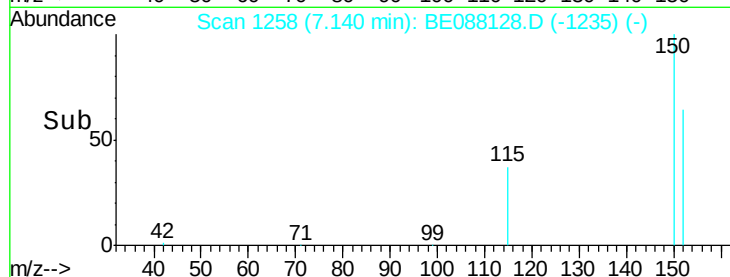
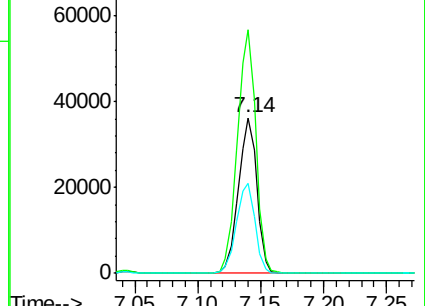
115 57.7 49.3 73.9



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: 0.34 ng

RT: 2.48 min Scan# 237

Delta R.T. 0.07 min

Lab File: BE088128.D

Acq: 21 Oct 2014 6:50

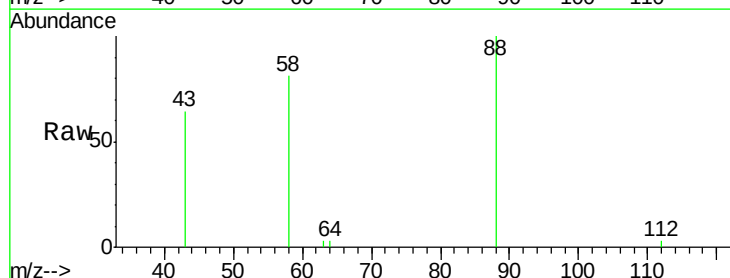
Tgt Ion: 88 Resp: 1791

Ion Ratio Lower Upper

88 100

58 74.5 59.5 89.3

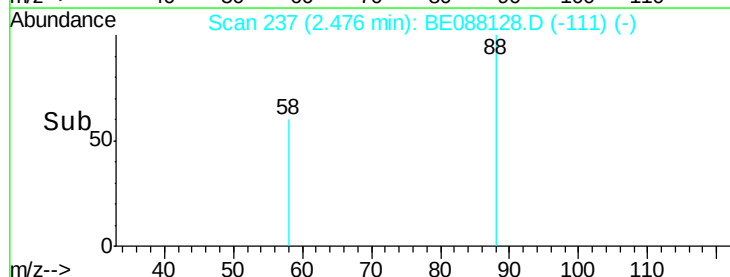
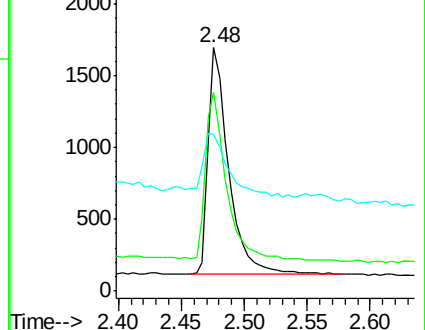
43 0.0 21.2 31.8#

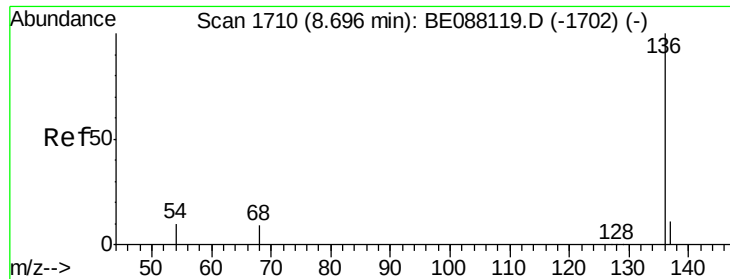


Abundance Ion 88.00 (87.70 to 88.70): BE0

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. 0.00 min

Lab File: BE088128.D

Acq: 21 Oct 2014 6:50

Instrument :

BNA_E

ClientSampleId :

YS19-SB08-1014

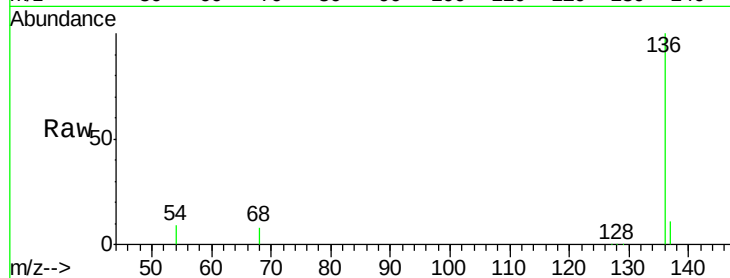
Tgt Ion: 136 Resp: 129983

Ion Ratio Lower Upper

136 100

137 10.7 8.6 12.8

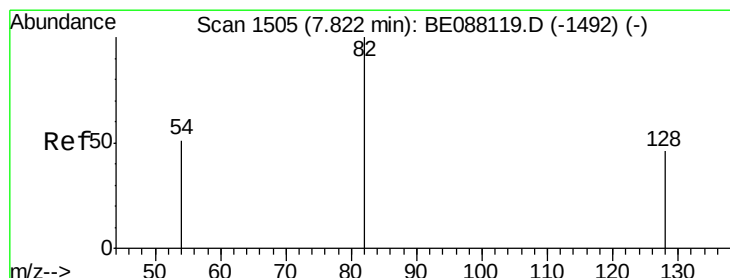
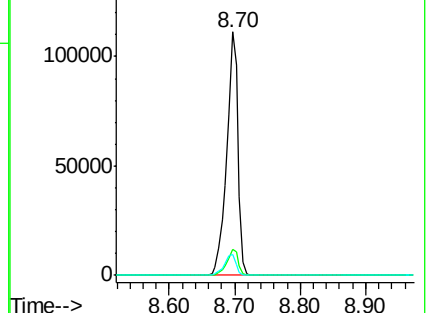
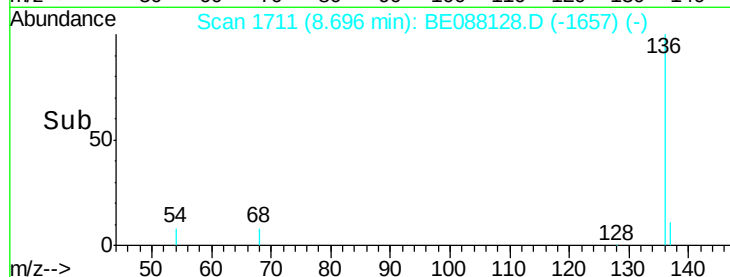
54 8.7 7.7 11.5



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: 56.22 ng

RT: 7.83 min Scan# 1510

Delta R.T. 0.01 min

Lab File: BE088128.D

Acq: 21 Oct 2014 6:50

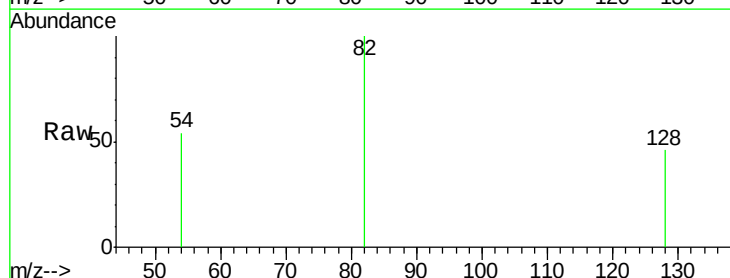
Tgt Ion: 82 Resp: 526807

Ion Ratio Lower Upper

82 100

128 45.8 37.1 55.7

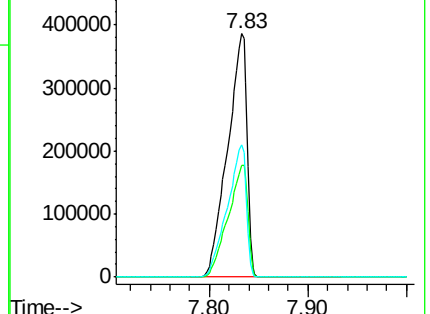
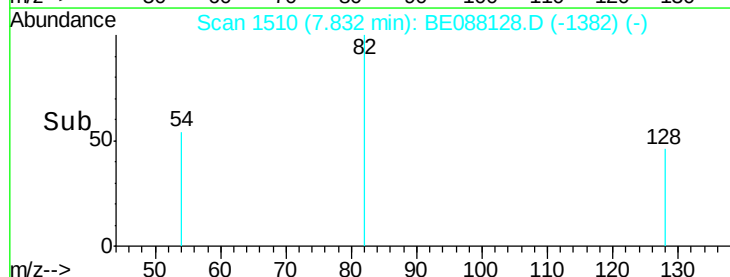
54 54.3 41.1 61.7

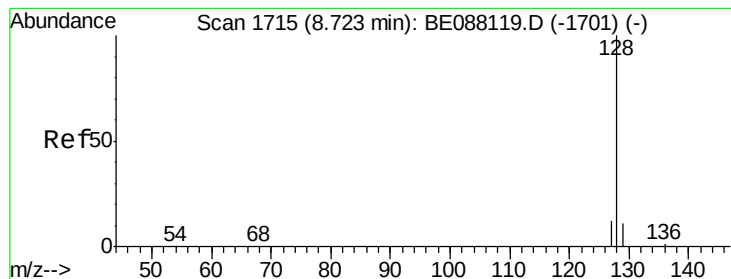


Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BE0





#5

Naphthalene

Concen: 0.06 ng

RT: 8.72 min Scan# 1716

Delta R.T. 0.00 min

Lab File: BE088128.D

Acq: 21 Oct 2014 6:50

Instrument :

BNA_E

ClientSampleId :

YS19-SB08-1014

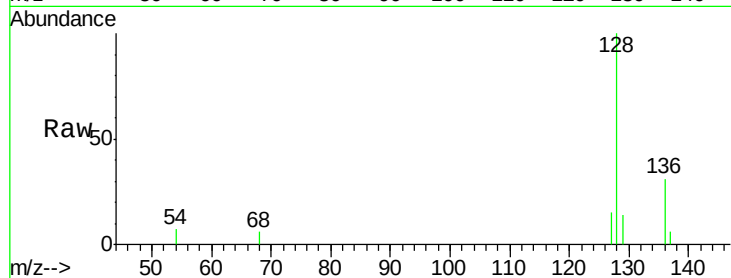
Tgt Ion:128 Resp: 1627

Ion Ratio Lower Upper

128 100

129 13.6 8.9 13.3#

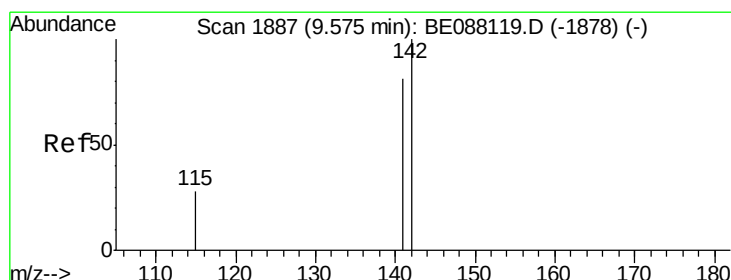
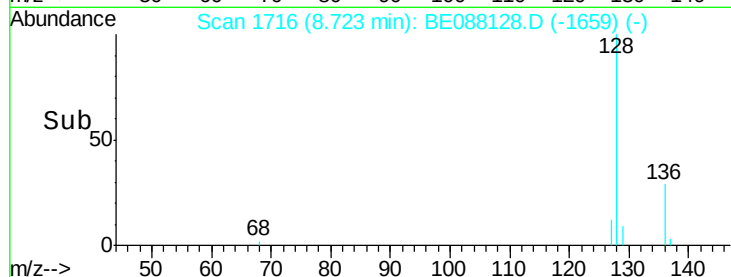
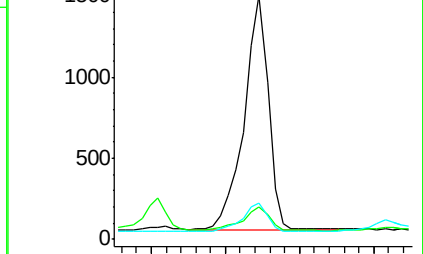
127 15.0 9.7 14.5#



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: 0.04 ng

RT: 9.58 min Scan# 1888

Delta R.T. -0.00 min

Lab File: BE088128.D

Acq: 21 Oct 2014 6:50

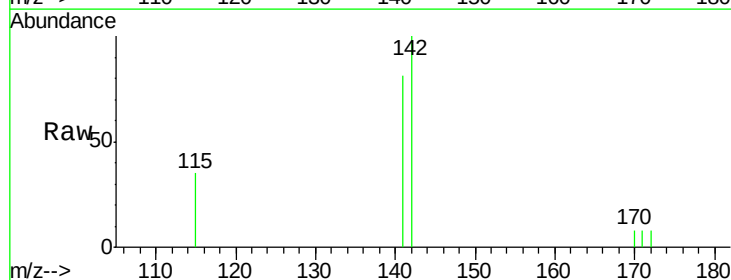
Tgt Ion:142 Resp: 596

Ion Ratio Lower Upper

142 100

141 80.8 64.6 97.0

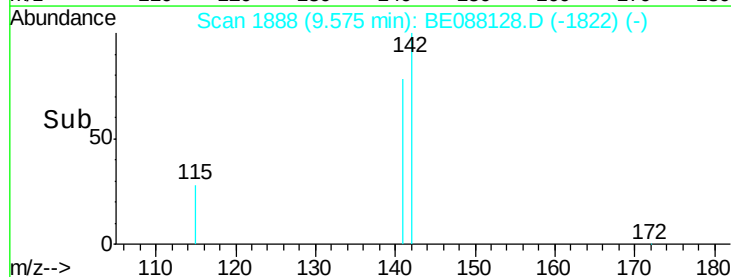
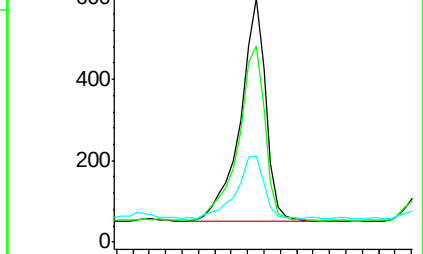
115 35.5 22.6 34.0#

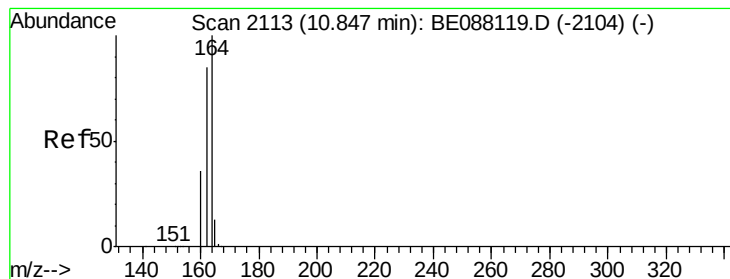


Abundance Ion 142.00 (141.70 to 142.70): E

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: BE088128.D

Acq: 21 Oct 2014 6:50

Instrument :

BNA_E

ClientSampleId :

YS19-SB08-1014

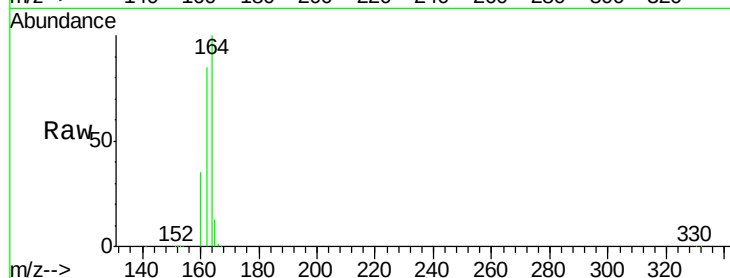
Tgt Ion:164 Resp: 59112

Ion Ratio Lower Upper

164 100

162 85.1 68.3 102.5

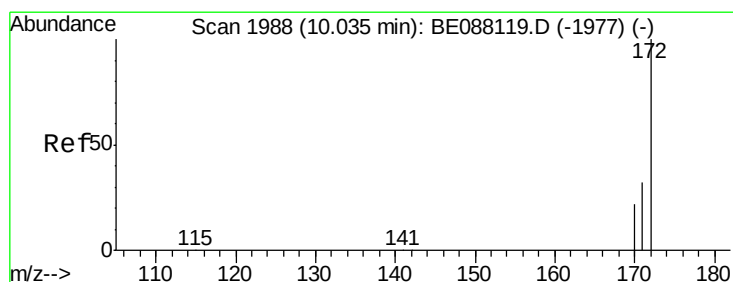
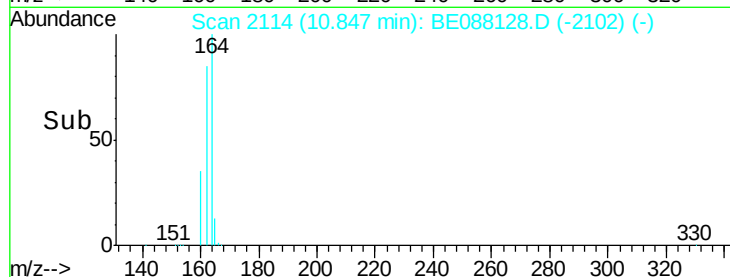
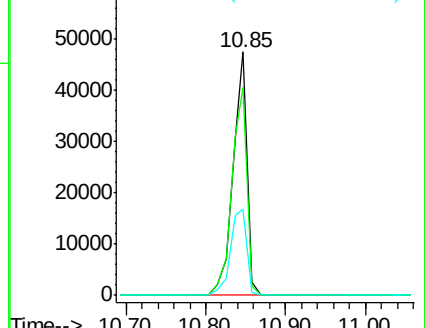
160 35.4 28.7 43.1



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: 39.51 ng

RT: 10.04 min Scan# 1990

Delta R.T. 0.00 min

Lab File: BE088128.D

Acq: 21 Oct 2014 6:50

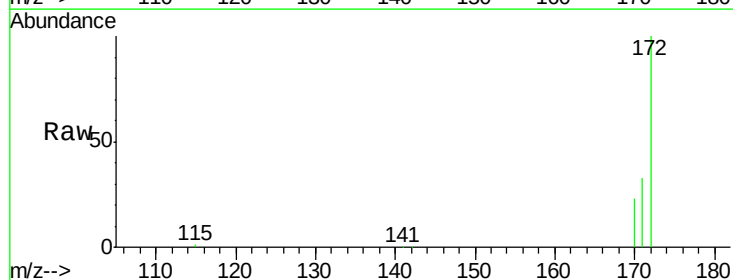
Tgt Ion:172 Resp: 645185

Ion Ratio Lower Upper

172 100

171 33.5 25.4 38.2

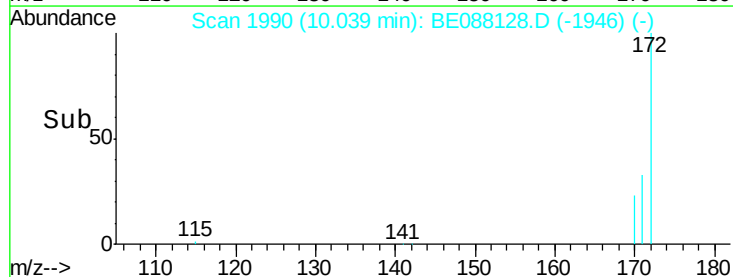
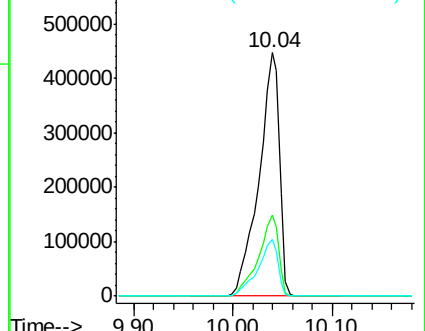
170 23.2 17.4 26.2

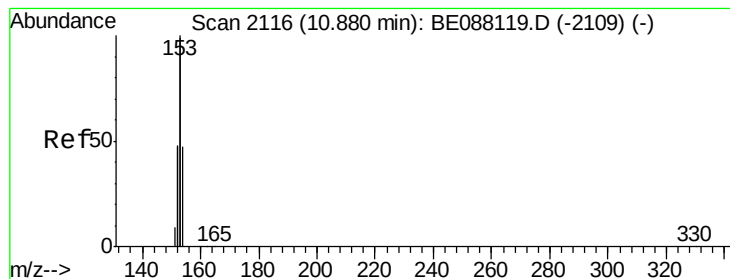


Abundance Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E





#10

Acenaphthene

Concen: 0.10 ng

RT: 10.88 min Scan# 2117

Delta R.T. 0.00 min

Lab File: BE088128.D

Acq: 21 Oct 2014 6:50

Instrument :

BNA_E

ClientSampleId :

YS19-SB08-1014

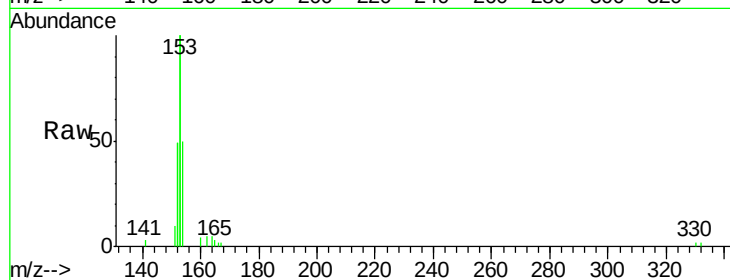
Tgt Ion:154 Resp: 1324

Ion Ratio Lower Upper

154 100

153 323.4 327.8 491.6#

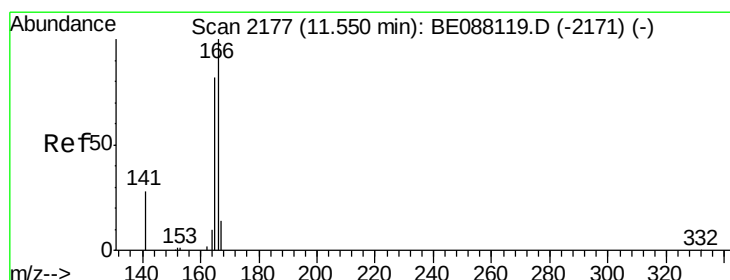
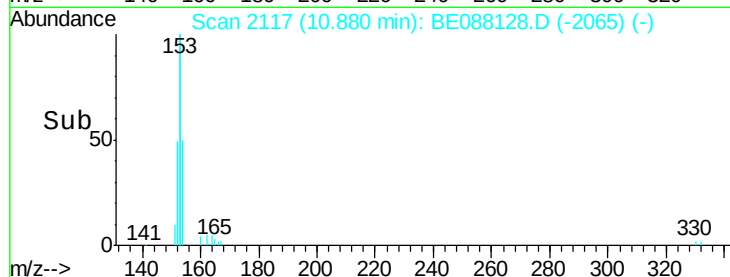
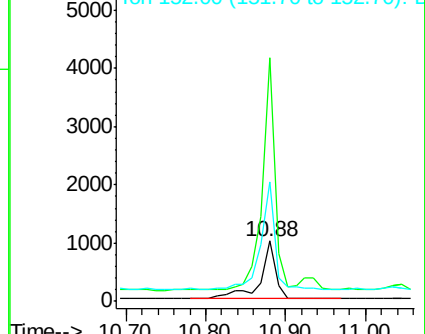
152 164.7 157.6 236.4



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: 0.07 ng

RT: 11.54 min Scan# 2177

Delta R.T. -0.01 min

Lab File: BE088128.D

Acq: 21 Oct 2014 6:50

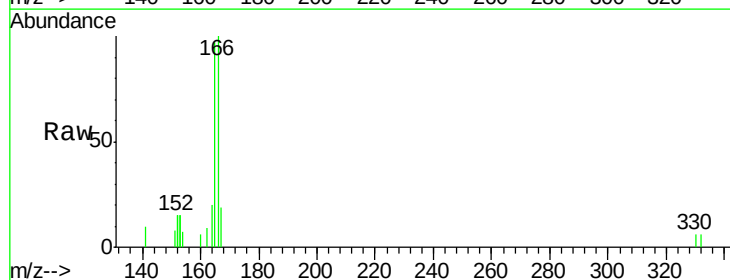
Tgt Ion:166 Resp: 1089

Ion Ratio Lower Upper

166 100

165 88.1 71.4 107.2

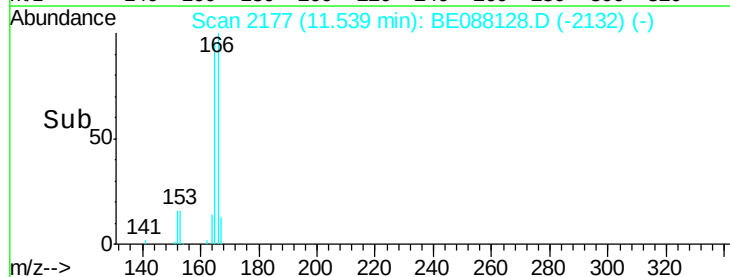
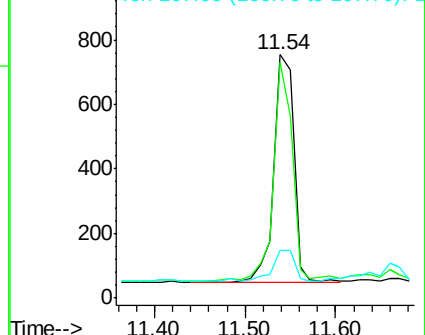
167 16.1 10.6 16.0#

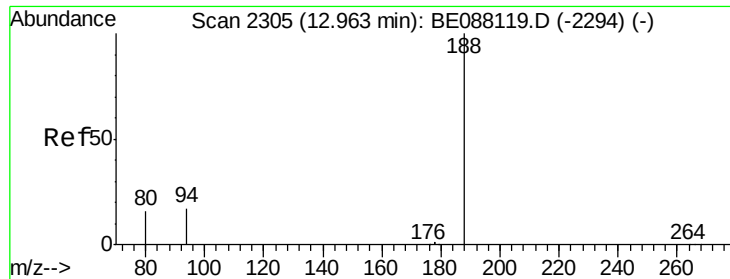


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E

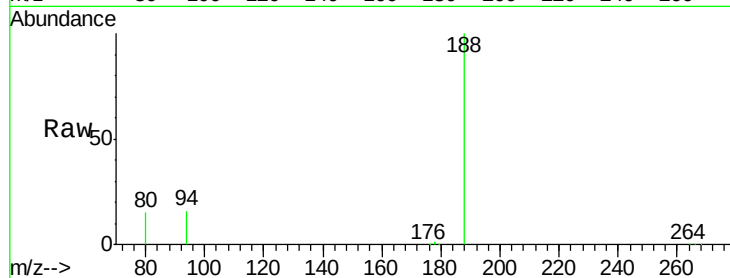




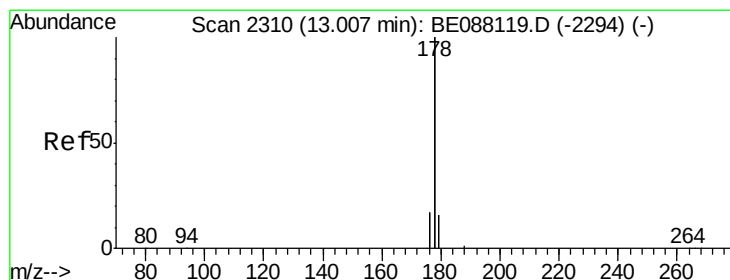
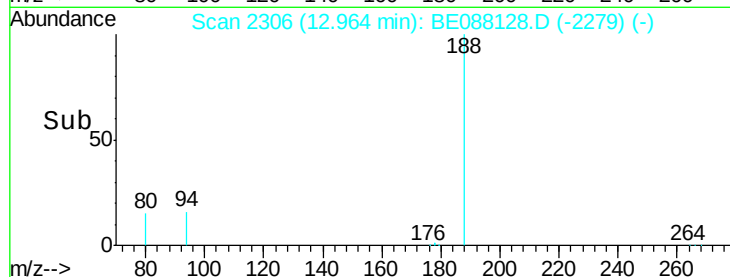
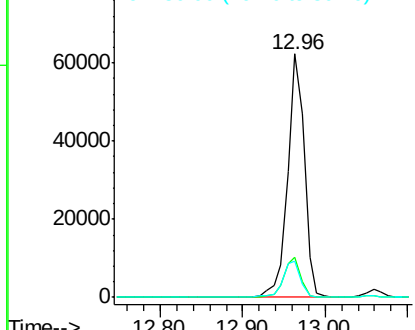
#12
Phenanthrene-d10
Concen: 5.00 ng
RT: 12.96 min Scan# 2306
Delta R.T. 0.00 min
Lab File: BE088128.D
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Tgt Ion:188 Resp: 106838
Ion Ratio Lower Upper
188 100
94 16.4 13.9 20.9
80 15.0 12.9 19.3

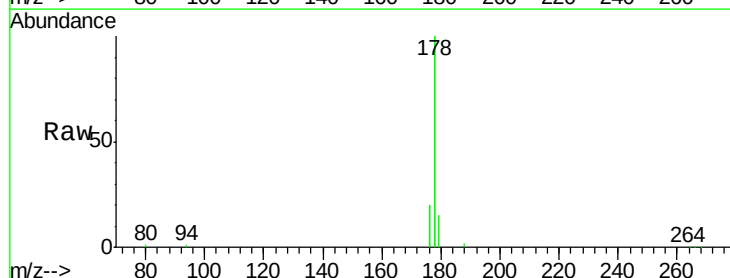


Abundance Ion 188.00 (187.70 to 188.70): E
Ion 94.00 (93.70 to 94.70): BE0
Ion 80.00 (79.70 to 80.70): BE0

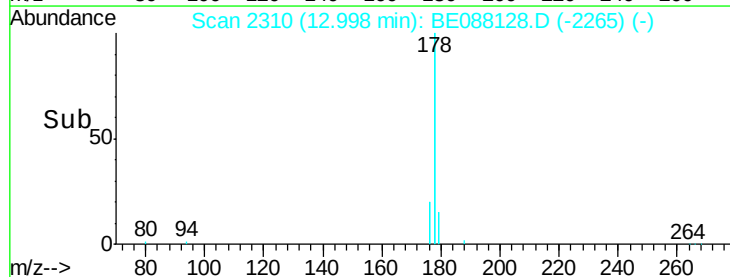
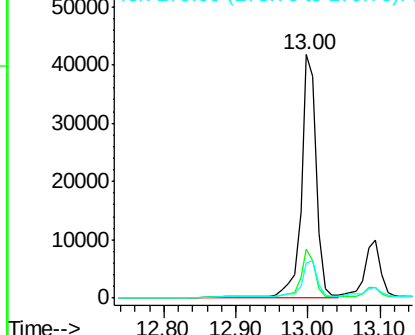


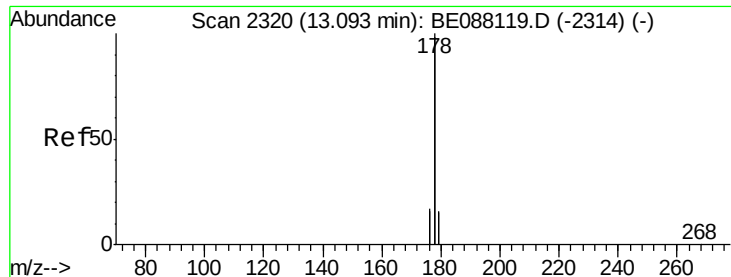
#13
Phenanthrene
Concen: 0.74 ng
RT: 13.00 min Scan# 2310
Delta R.T. -0.01 min
Lab File: BE088128.D
Acq: 21 Oct 2014 6:50

Tgt Ion:178 Resp: 73719
Ion Ratio Lower Upper
178 100
176 15.8 12.5 18.7
179 19.0 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: 0.17 ng

RT: 13.09 min Scan# 2321

Delta R.T. 0.00 min

Lab File: BE088128.D

Acq: 21 Oct 2014 6:50

Instrument :

BNA_E

ClientSampleId :

YS19-SB08-1014

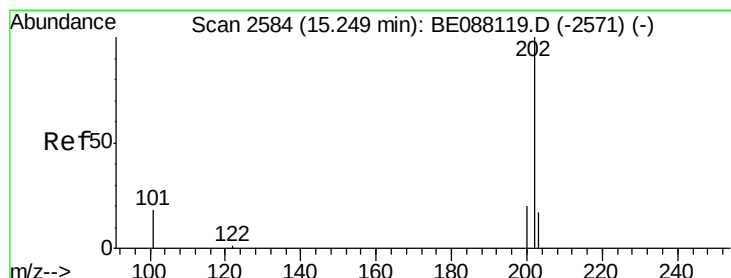
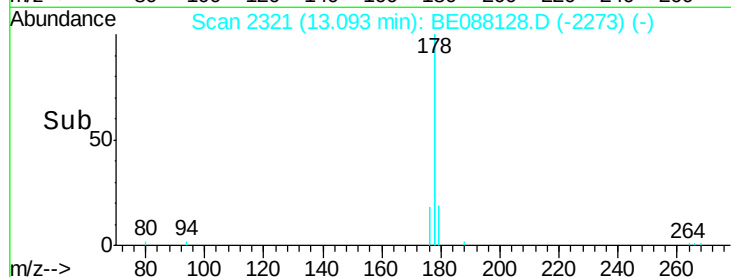
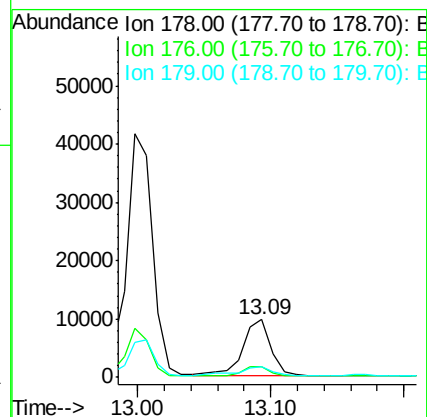
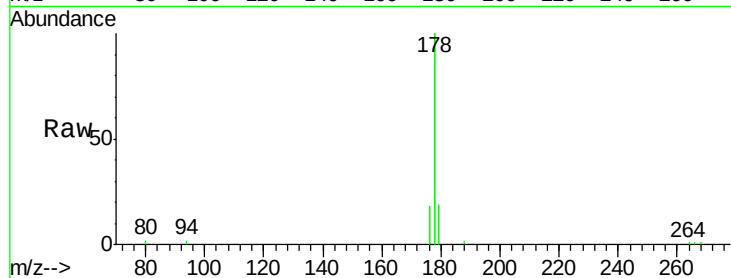
Tgt Ion:178 Resp: 14247

Ion Ratio Lower Upper

178 100

176 19.9 14.6 21.8

179 22.6 12.5 18.7#



#15

Fluoranthene

Concen: 1.07 ng

RT: 15.25 min Scan# 2585

Delta R.T. -0.00 min

Lab File: BE088128.D

Acq: 21 Oct 2014 6:50

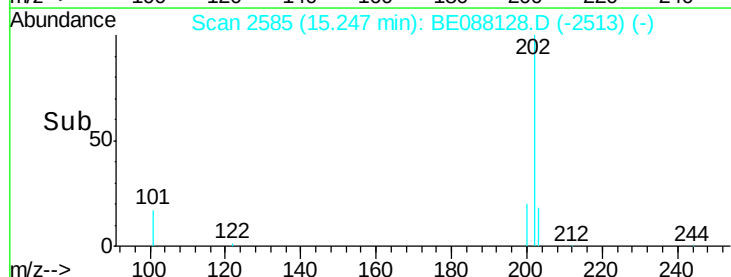
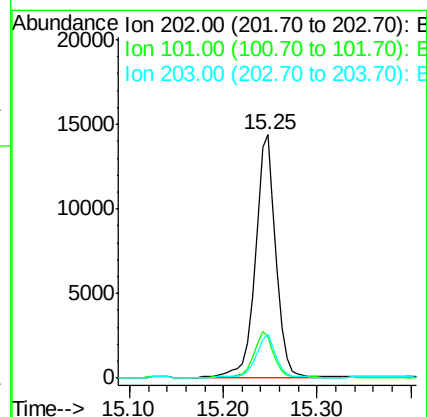
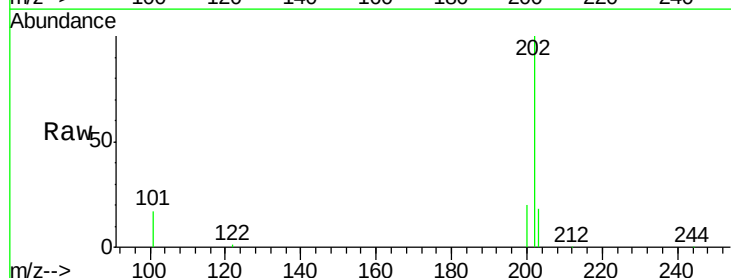
Tgt Ion:202 Resp: 21763

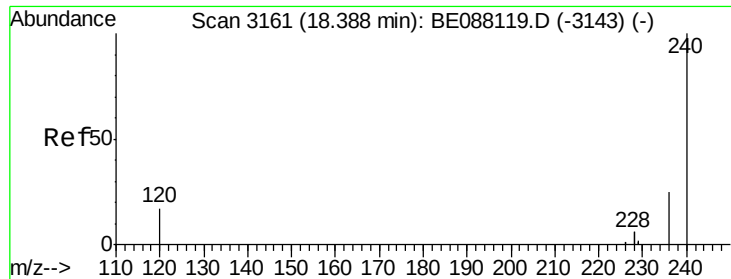
Ion Ratio Lower Upper

202 100

101 18.4 14.8 22.2

203 17.0 13.5 20.3

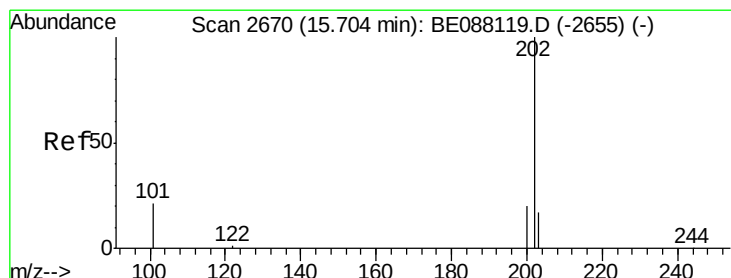
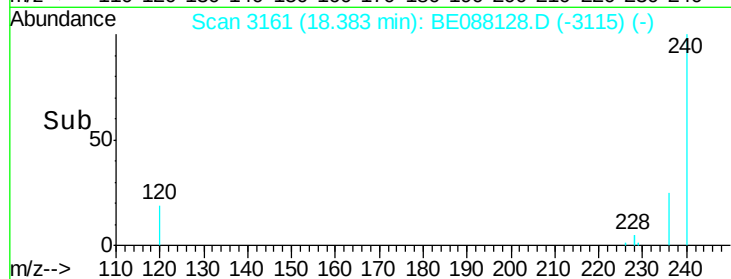
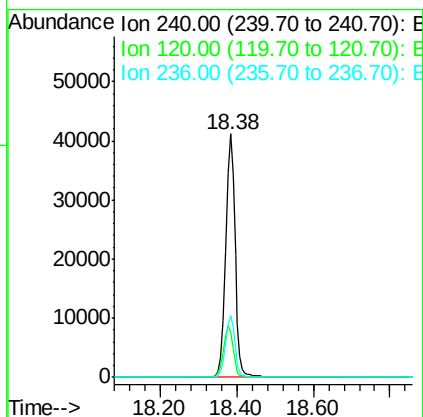
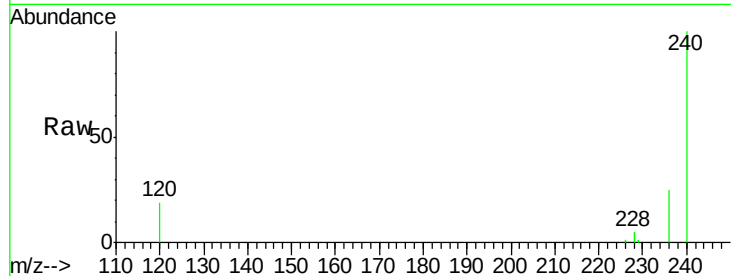




#16
Chrysene-d12
Concen: 5.00 ng
RT: 18.38 min Scan# 3161
Delta R.T. -0.01 min
Lab File: BE088128.D
Acq: 21 Oct 2014 6:50

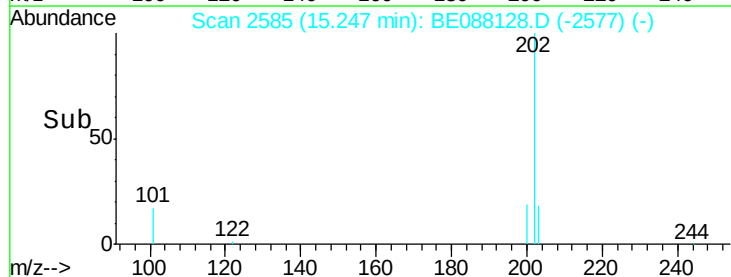
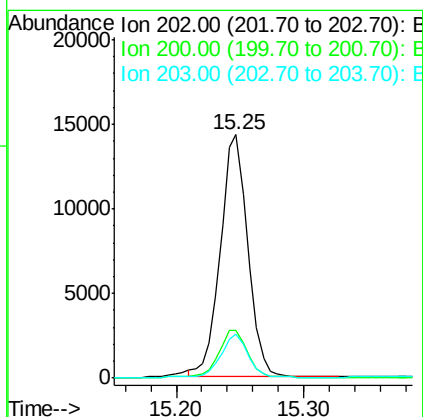
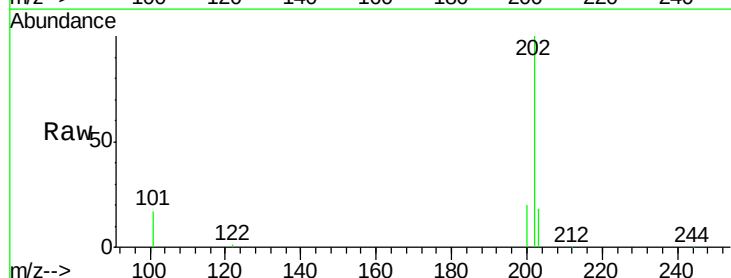
Instrument :
BNA_E
ClientSampleId :
YS19-SB08-1014

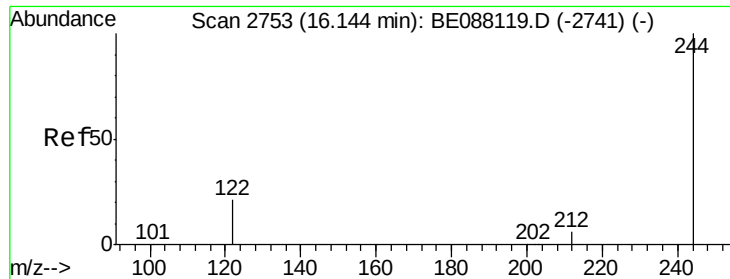
Tgt Ion:240 Resp: 70408
Ion Ratio Lower Upper
240 100
120 18.7 13.9 20.9
236 25.5 19.9 29.9



#17
Pyrene
Concen: 1.11 ng
RT: 15.25 min Scan# 2585
Delta R.T. -0.46 min
Lab File: BE088128.D
Acq: 21 Oct 2014 6:50

Tgt Ion:202 Resp: 21171
Ion Ratio Lower Upper
202 100
200 19.9 16.1 24.1
203 17.2 13.9 20.9





#18

Terphenyl-d14

Concen: 41.67 ng

RT: 16.16 min Scan# 2757

Delta R.T. 0.01 min

Lab File: BE088128.D

Acq: 21 Oct 2014 6:50

Instrument :

BNA_E

ClientSampleId :

YS19-SB08-1014

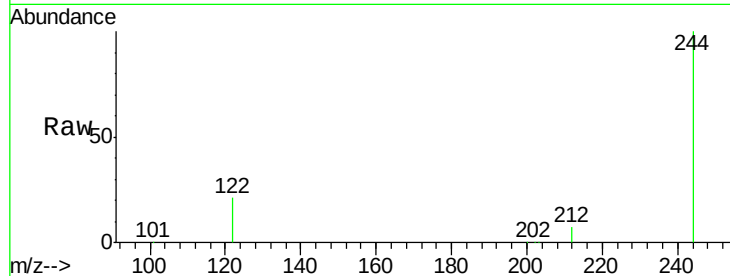
Tgt Ion:244 Resp: 472127

Ion Ratio Lower Upper

244 100

212 6.8 5.4 8.0

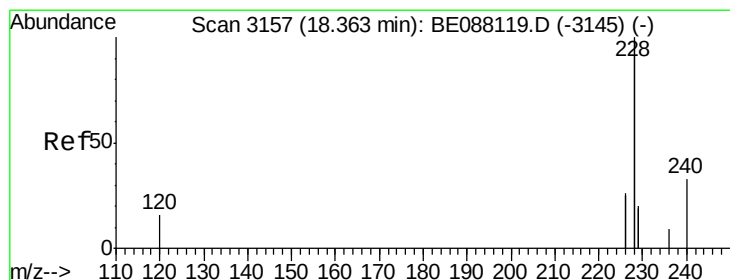
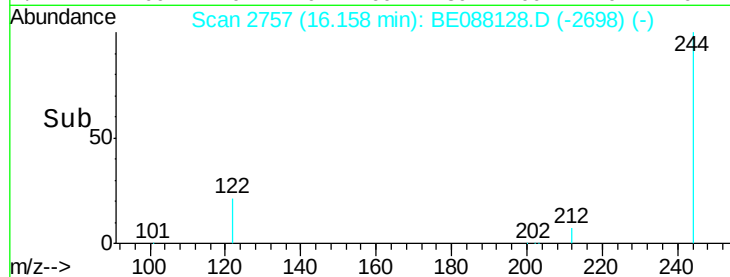
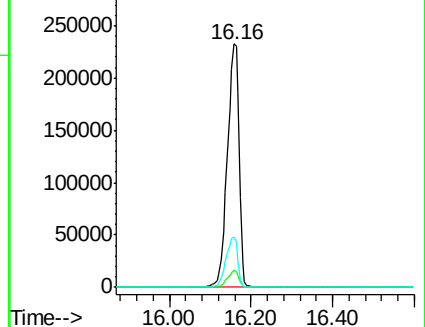
122 20.5 17.5 26.3



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: 0.54 ng

RT: 18.36 min Scan# 3158

Delta R.T. 0.00 min

Lab File: BE088128.D

Acq: 21 Oct 2014 6:50

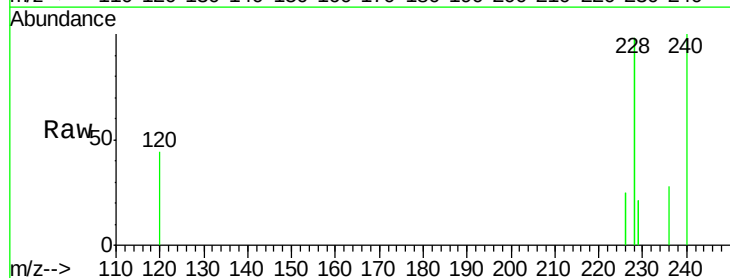
Tgt Ion:228 Resp: 33936

Ion Ratio Lower Upper

228 100

226 25.5 20.8 31.2

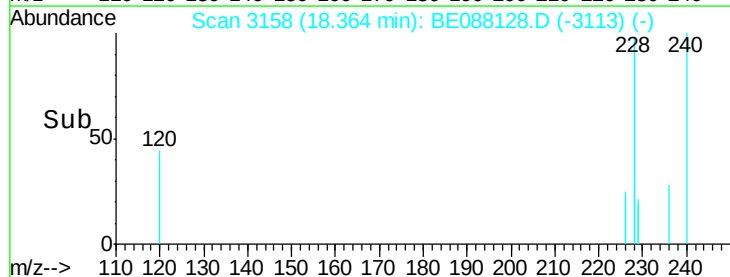
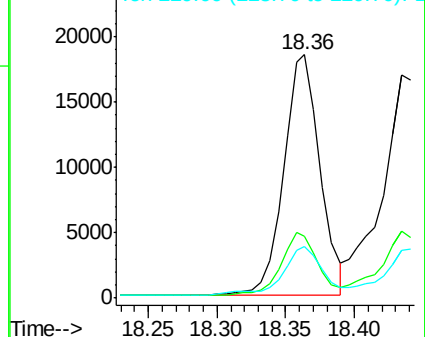
229 21.3 15.6 23.4

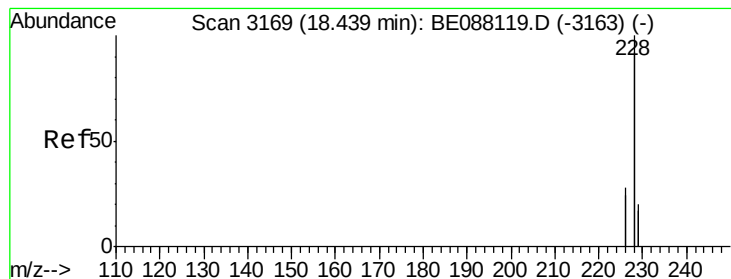


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#20

Chrysene

Concen: 0.56 ng

RT: 18.43 min Scan# 3169

Delta R.T. -0.01 min

Lab File: BE088128.D

Acq: 21 Oct 2014 6:50

Instrument :

BNA_E

ClientSampleId :

YS19-SB08-1014

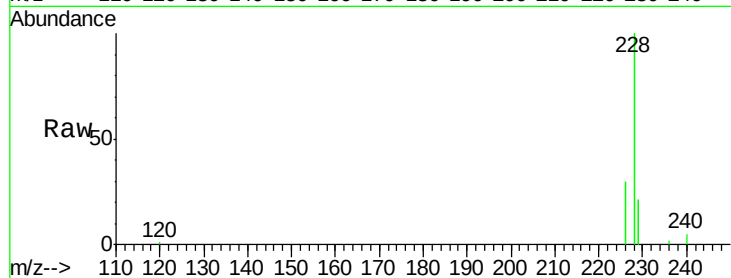
Tgt Ion:228 Resp: 34271

Ion Ratio Lower Upper

228 100

226 30.0 22.7 34.1

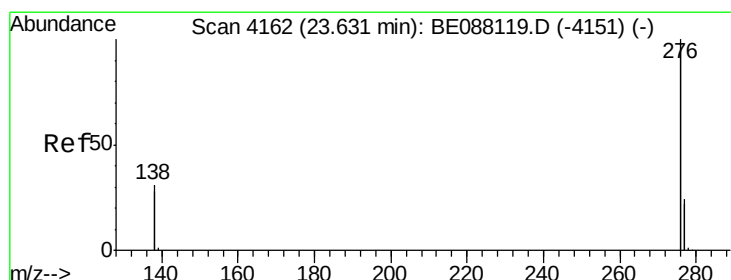
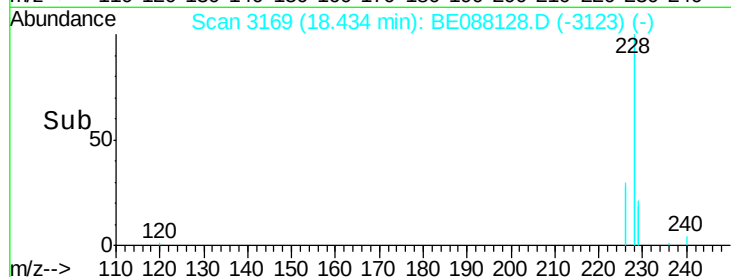
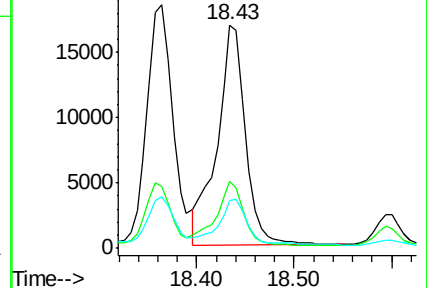
229 21.1 15.8 23.6



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: 0.28 ng

RT: 23.63 min Scan# 4163

Delta R.T. -0.00 min

Lab File: BE088128.D

Acq: 21 Oct 2014 6:50

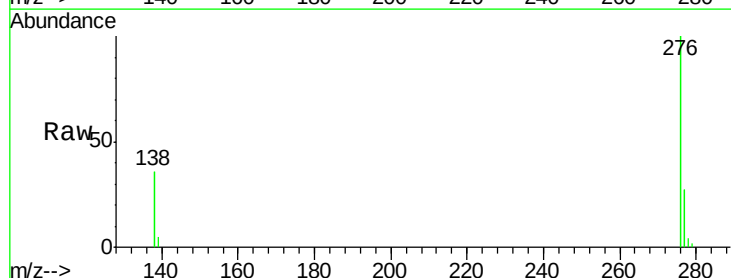
Tgt Ion:276 Resp: 18818

Ion Ratio Lower Upper

276 100

138 30.8 18.5 27.7#

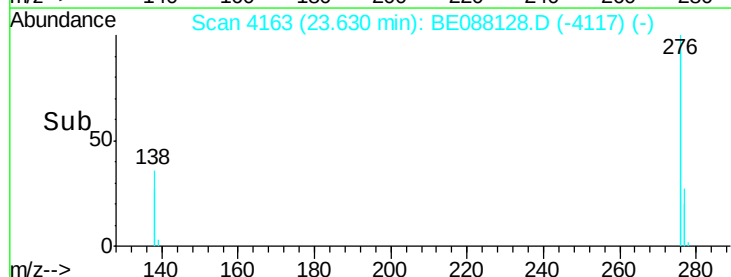
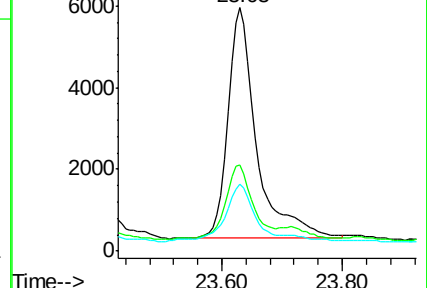
277 26.5 14.6 21.8#

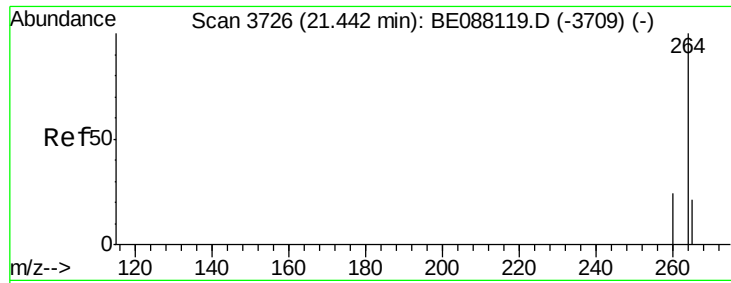


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

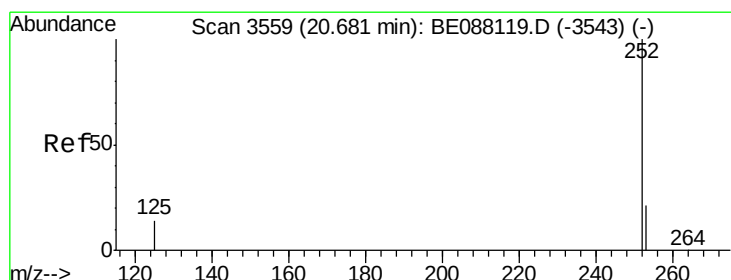
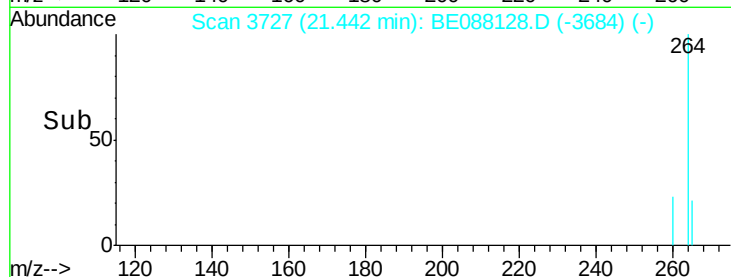
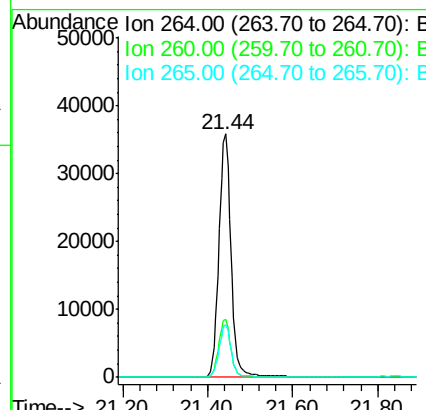
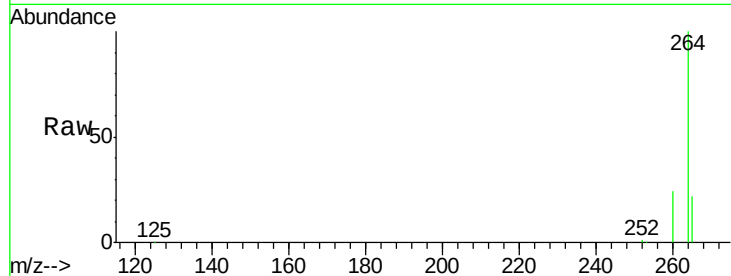




#22
Perylene-d12
 Concen: 5.00 ng
 RT: 21.44 min Scan# 3727
 Delta R.T. 0.00 min
 Lab File: BE088128.D
 Acq: 21 Oct 2014 6:50

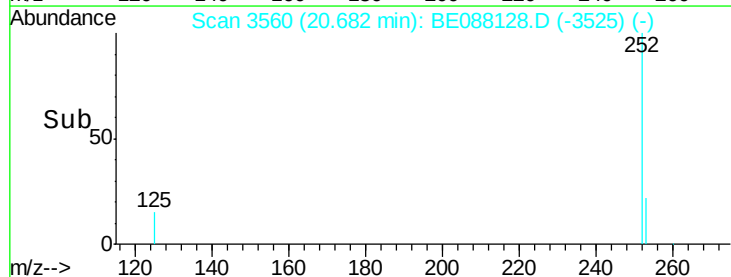
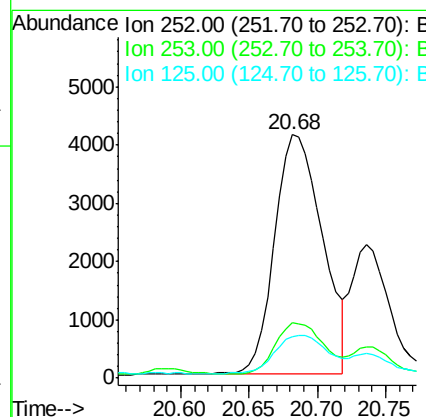
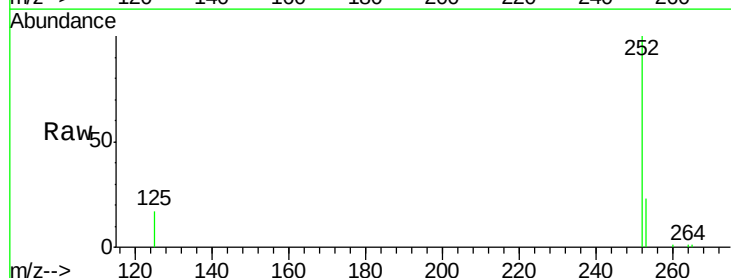
Instrument :
 BNA_E
 ClientSampleId :
 YS19-SB08-1014

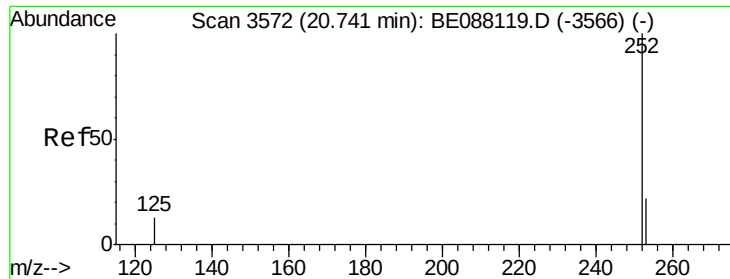
Tgt Ion: 264 Resp: 67896
 Ion Ratio Lower Upper
 264 100
 260 23.6 19.0 28.4
 265 21.6 17.2 25.8



#23
Benzo(b)fluoranthene
 Concen: 0.62 ng
 RT: 20.68 min Scan# 3560
 Delta R.T. 0.00 min
 Lab File: BE088128.D
 Acq: 21 Oct 2014 6:50

Tgt Ion: 252 Resp: 9993
 Ion Ratio Lower Upper
 252 100
 253 23.0 17.4 26.0
 125 17.0 11.8 17.8





#24

Benzo(k)fluoranthene

Concen: 0.58 ng

RT: 20.68 min Scan# 3560

Delta R.T. -0.06 min

Lab File: BE088128.D

Acq: 21 Oct 2014 6:50

Instrument :

BNA_E

ClientSampleId :

YS19-SB08-1014

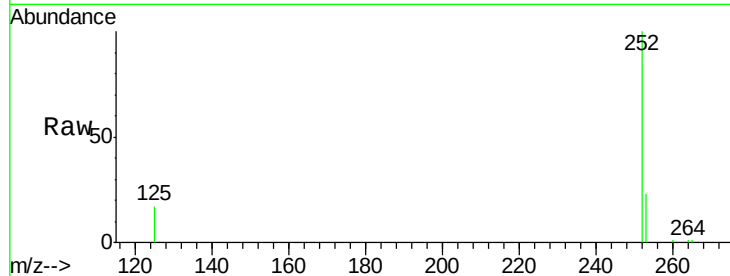
Tgt Ion:252 Resp: 9996

Ion Ratio Lower Upper

252 100

253 23.0 17.6 26.4

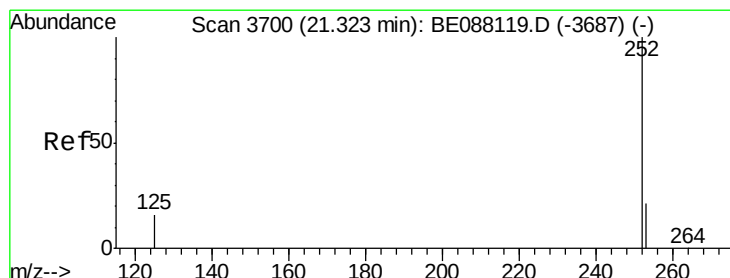
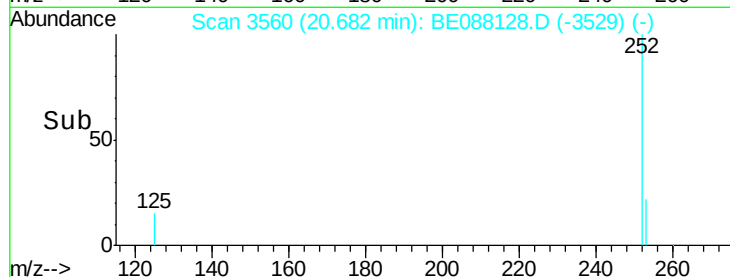
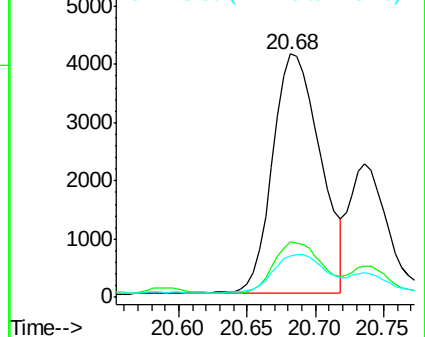
125 17.0 11.5 17.3



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: 0.47 ng

RT: 21.32 min Scan# 3701

Delta R.T. 0.00 min

Lab File: BE088128.D

Acq: 21 Oct 2014 6:50

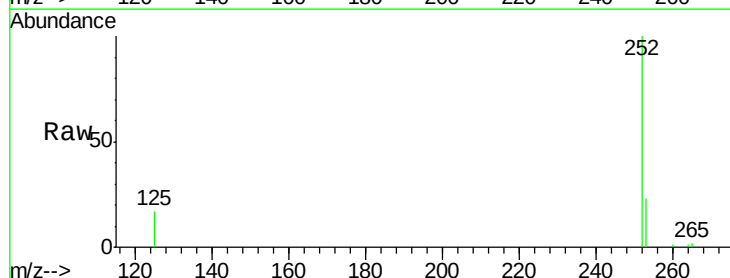
Tgt Ion:252 Resp: 7042

Ion Ratio Lower Upper

252 100

253 22.9 17.5 26.3

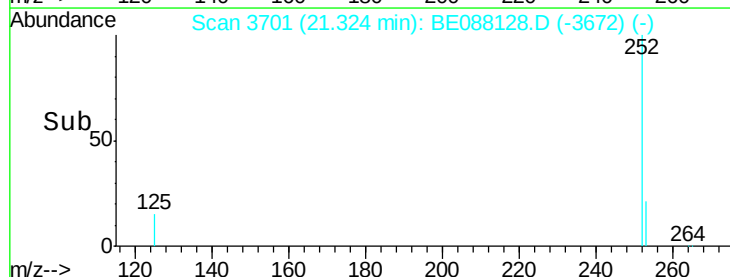
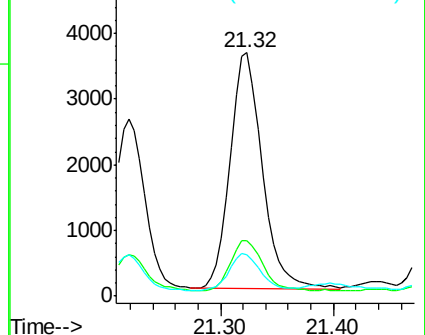
125 17.0 13.0 19.6

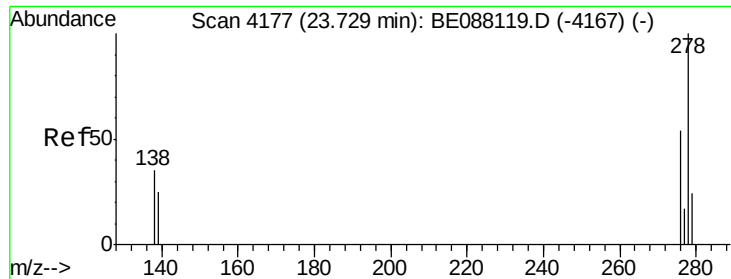


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#26

Dibenzo(a,h)anthracene

Concen: 0.06 ng

RT: 23.72 min Scan# 4177

Delta R.T. -0.01 min

Lab File: BE088128.D

Acq: 21 Oct 2014 6:50

Instrument :

BNA_E

ClientSampleId :

YS19-SB08-1014

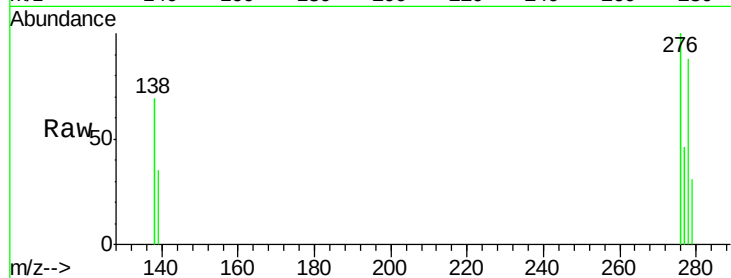
Tgt Ion: 278 Resp: 928

Ion Ratio Lower Upper

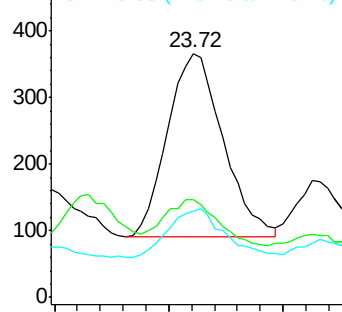
278 100

139 39.9 20.9 31.3#

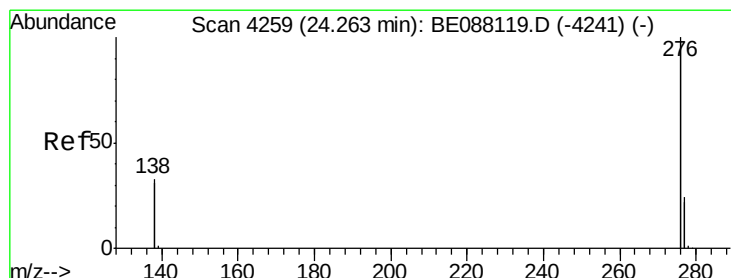
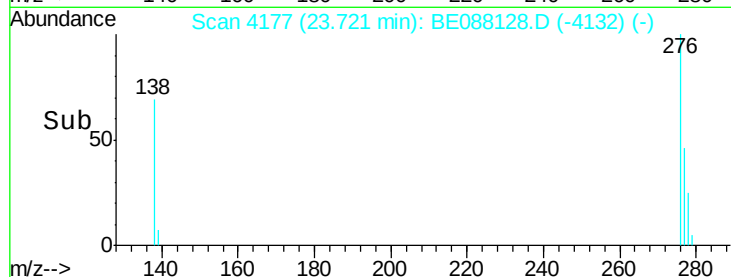
279 35.5 19.8 29.8#



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



Time--> 23.60 23.70 23.80



#27

Benzo(g,h,i)perylene

Concen: 0.29 ng

RT: 24.26 min Scan# 4260

Delta R.T. -0.00 min

Lab File: BE088128.D

Acq: 21 Oct 2014 6:50

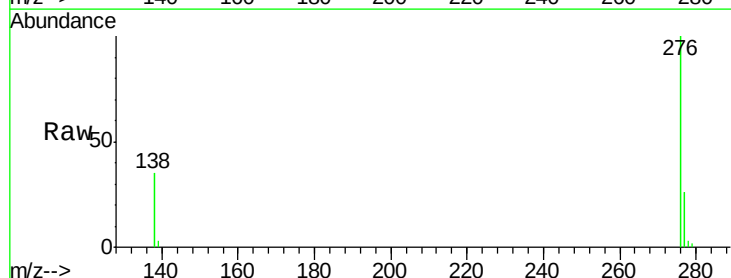
Tgt Ion: 276 Resp: 18852

Ion Ratio Lower Upper

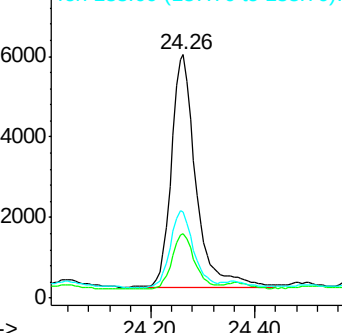
276 100

277 26.4 19.2 28.8

138 35.3 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



Time--> 24.20 24.40

