

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE102114\
 Data File : BE088161.D
 Acq On : 22 Oct 2014 2:59
 Operator : TP/JJ
 Sample : F4303-07DL 10X
 Misc :
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 YS19-SS08-1014DL

Quant Time: Oct 22 04:26:17 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

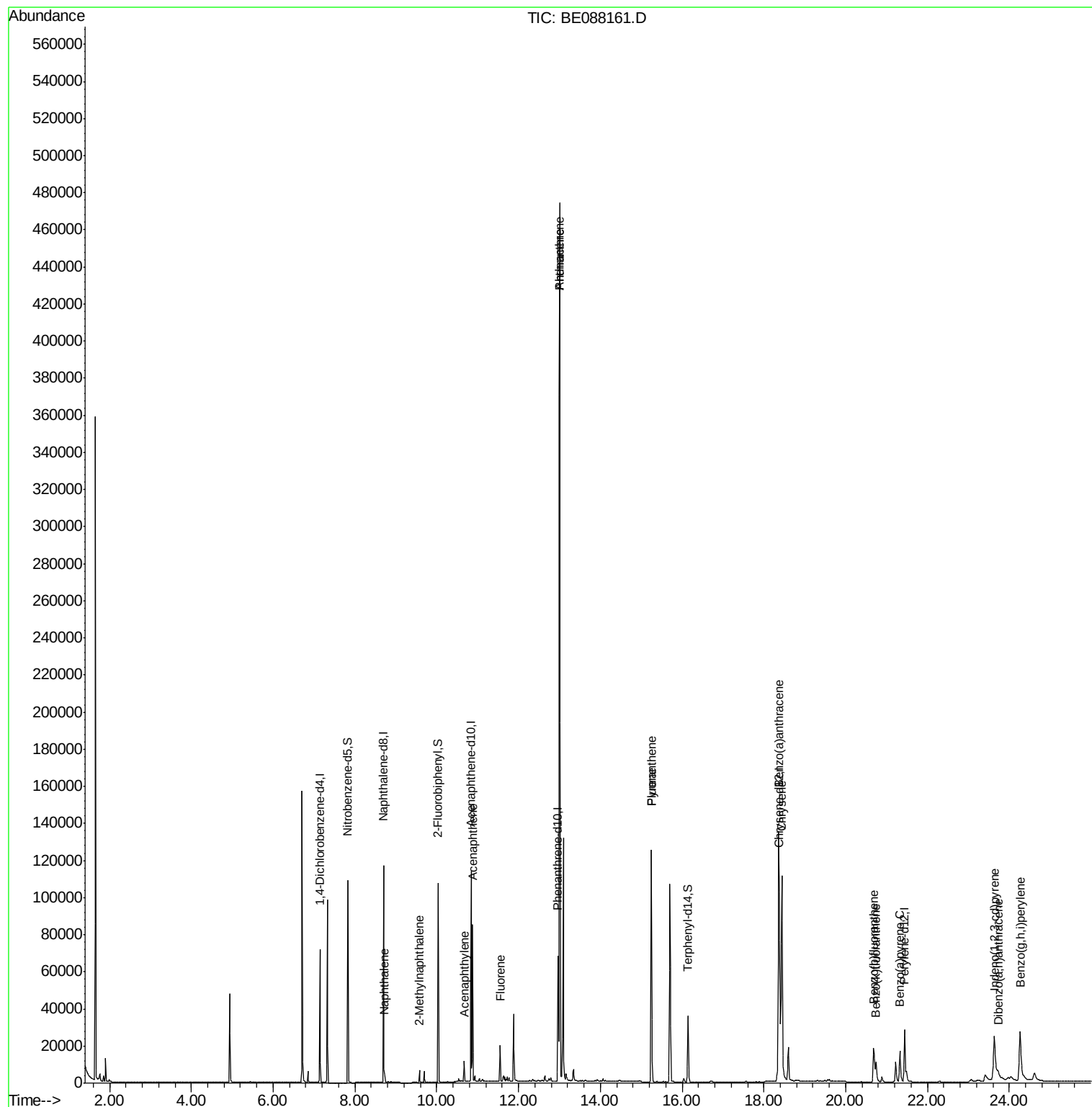
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.14	152	20801	5.00	ng	0.00
3) Naphthalene-d8	8.70	136	81346	5.00	ng	0.00
7) Acenaphthene-d10	10.85	164	43987	5.00	ng	0.00
12) Phenanthrene-d10	12.96	188	69550	5.00	ng	0.00
16) Chrysene-d12	18.38	240	49370	5.00	ng	0.00
22) Perylene-d12	21.44	264	39030	5.00	ng	0.00
System Monitoring Compounds						
4) Nitrobenzene-d5	7.83	82	46223	7.88	ng	0.00
8) 2-Fluorobiphenyl	10.03	172	62048	5.11	ng	0.00
18) Terphenyl-d14	16.14	244	44749	5.63	ng	0.00
Target Compounds						Qvalue
5) Naphthalene	8.72	128	8436	0.50	ng	99
6) 2-Methylnaphthalene	9.57	142	2823	0.28	ng	94
9) Acenaphthylene	10.67	152	10700	0.16	ng	# 76
10) Acenaphthene	10.88	154	10194	0.99	ng	98
11) Fluorene	11.55	166	10958	1.00	ng	99
13) Phenanthrene	13.01	178	453324	9.02	ng	95
14) Anthracene	13.01	178	453324	8.35	ng	99
15) Fluoranthene	15.25	202	120053	9.07	ng	99
17) Pyrene	15.25	202	119665	8.92	ng	100
19) Benzo(a)anthracene	18.36	228	156262	3.56	ng	99
20) Chrysene	18.44	228	155920	3.62	ng	97
21) Indeno(1,2,3-cd)pyrene	23.63	276	65014	1.36	ng	# 90
23) Benzo(b)fluoranthene	20.69	252	33967	3.66	ng	98
24) Benzo(k)fluoranthene	20.74	252	18197	1.83	ng	97
25) Benzo(a)pyrene	21.32	252	24622	2.88	ng	97
26) Dibenzo(a,h)anthracene	23.73	278	3019	0.36	ng	# 91
27) Benzo(g,h,i)perylene	24.26	276	61652	1.66	ng	99

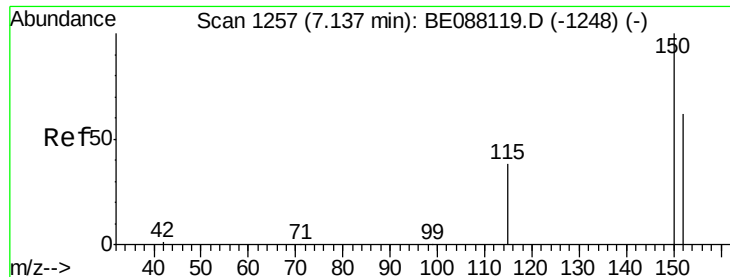
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: BE088161.D

Acq: 22 Oct 2014 2:59

Instrument :

BNA_E

ClientSampleId :

YS19-SS08-1014DL

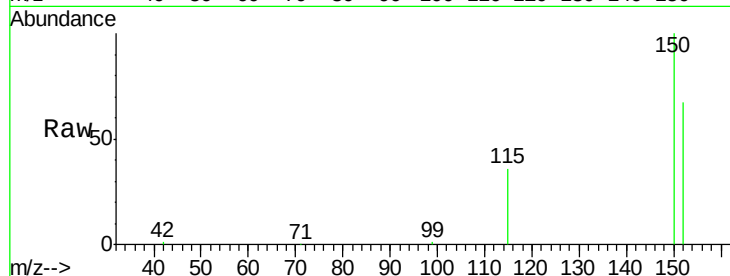
Tgt Ion:152 Resp: 20801

Ion Ratio Lower Upper

152 100

150 149.3 129.2 193.8

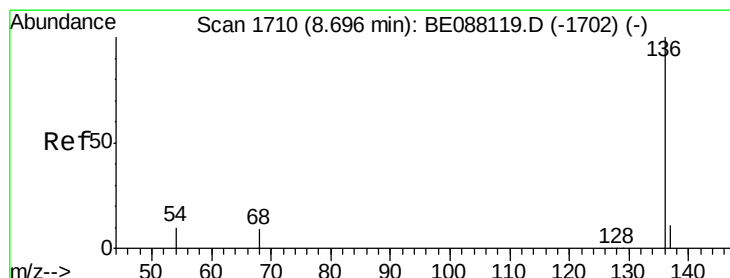
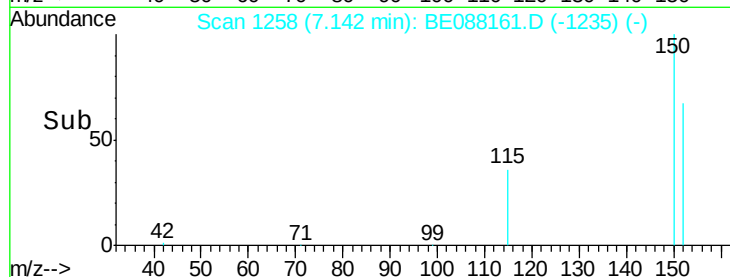
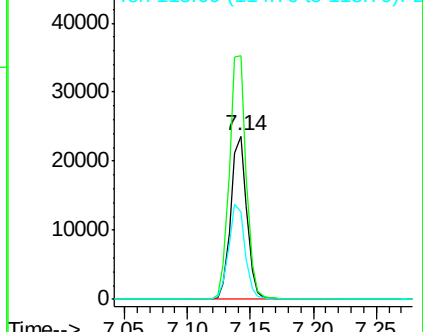
115 53.5 49.3 73.9



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: BE088161.D

Acq: 22 Oct 2014 2:59

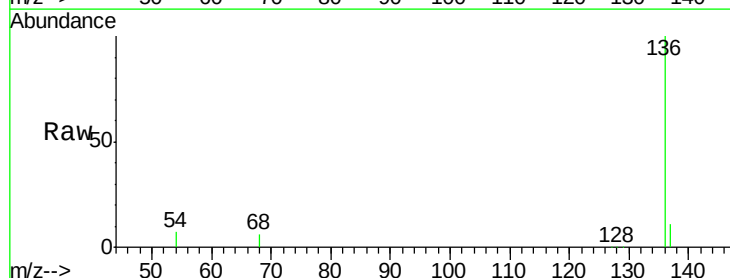
Tgt Ion:136 Resp: 81346

Ion Ratio Lower Upper

136 100

137 11.1 8.6 12.8

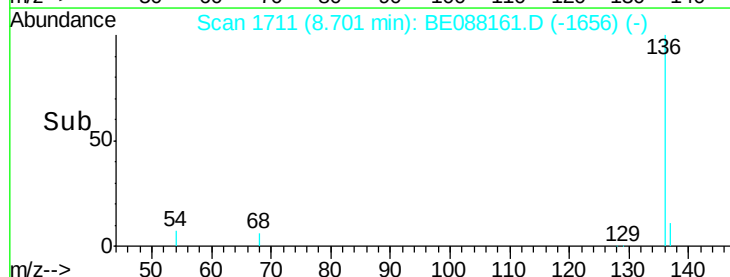
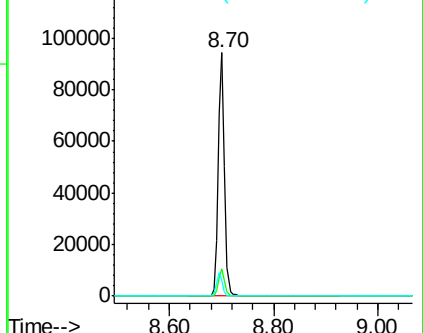
54 6.6 7.7 11.5#

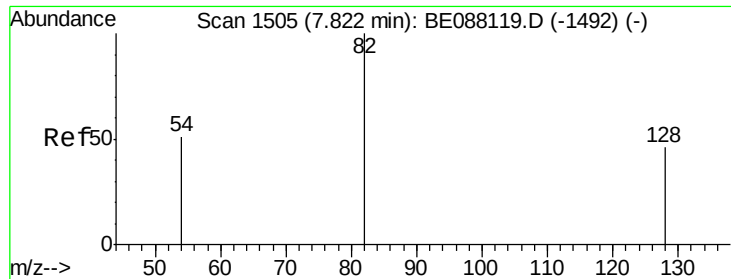


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BE0





#4

Nitrobenzene-d5

Concen: 7.88 ng

RT: 7.83 min Scan# 1507

Delta R.T. 0.00 min

Lab File: BE088161.D

Acq: 22 Oct 2014 2:59

Instrument :

BNA_E

ClientSampleId :

YS19-SS08-1014DL

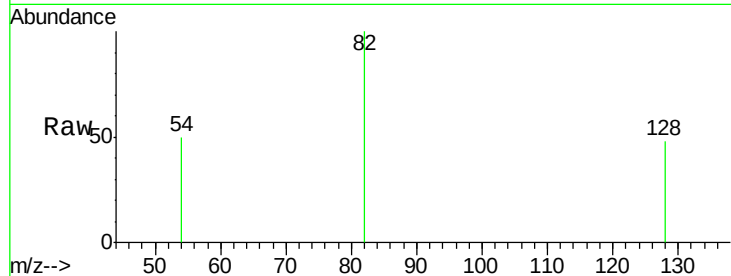
Tgt Ion: 82 Resp: 46223

Ion Ratio Lower Upper

82 100

128 48.1 37.1 55.7

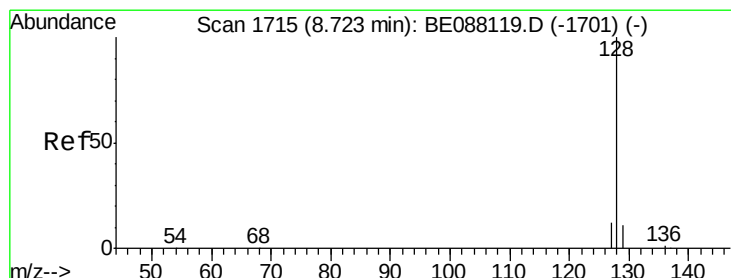
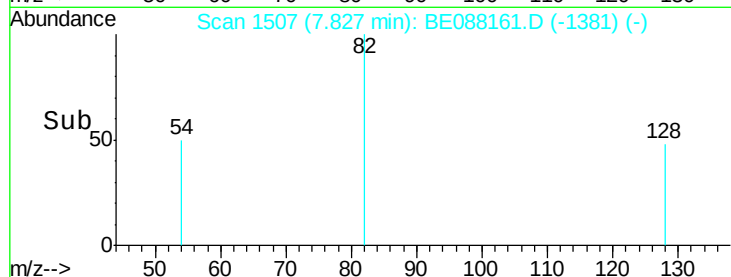
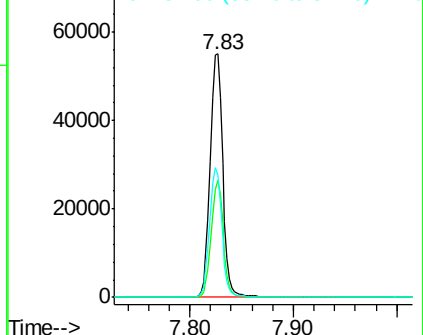
54 50.3 41.1 61.7



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: 0.50 ng

RT: 8.72 min Scan# 1715

Delta R.T. -0.00 min

Lab File: BE088161.D

Acq: 22 Oct 2014 2:59

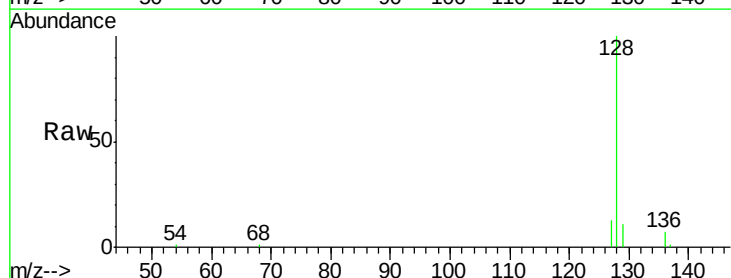
Tgt Ion: 128 Resp: 8436

Ion Ratio Lower Upper

128 100

129 11.3 8.9 13.3

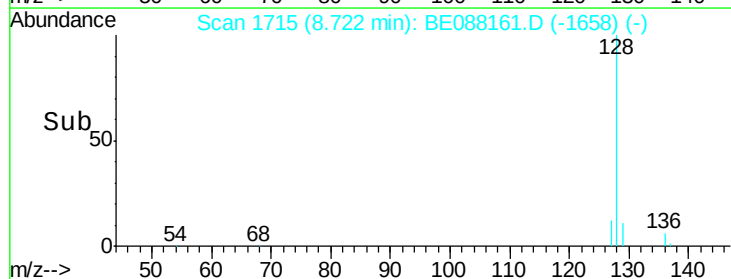
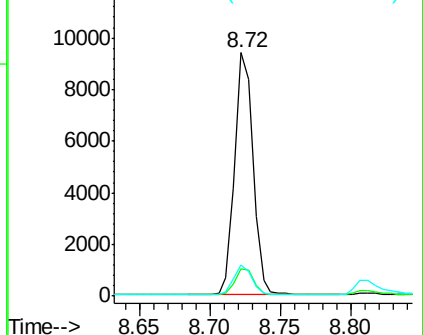
127 12.9 9.7 14.5

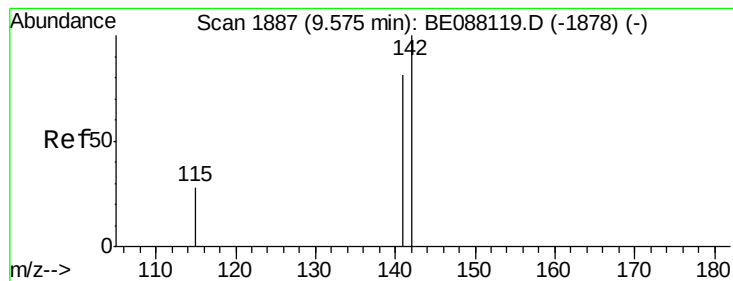


Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E





#6

2-Methylnaphthalene

Concen: 0.28 ng

RT: 9.57 min Scan# 1887

Delta R.T. -0.00 min

Lab File: BE088161.D

Acq: 22 Oct 2014 2:59

Instrument :

BNA_E

ClientSampleId :

YS19-SS08-1014DL

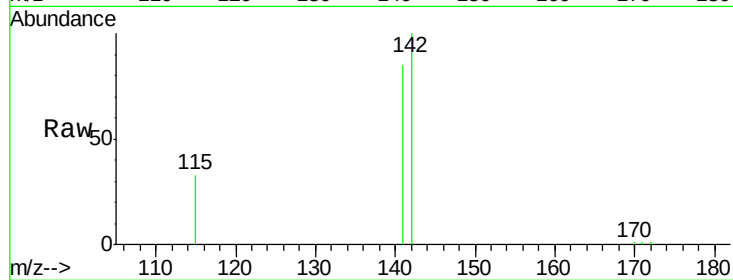
Tgt Ion:142 Resp: 2823

Ion Ratio Lower Upper

142 100

141 85.0 64.6 97.0

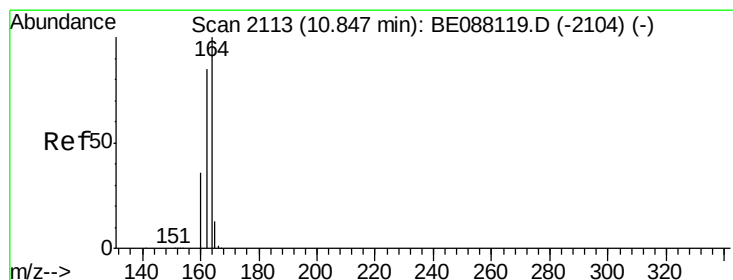
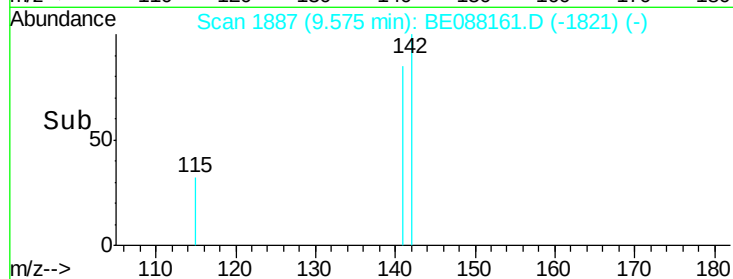
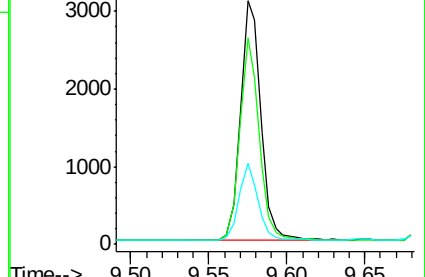
115 33.4 22.6 34.0



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: BE088161.D

Acq: 22 Oct 2014 2:59

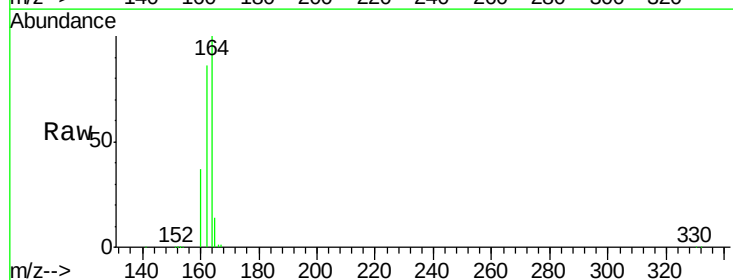
Tgt Ion:164 Resp: 43987

Ion Ratio Lower Upper

164 100

162 86.4 68.3 102.5

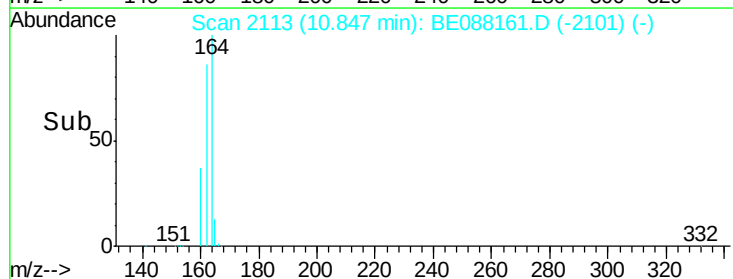
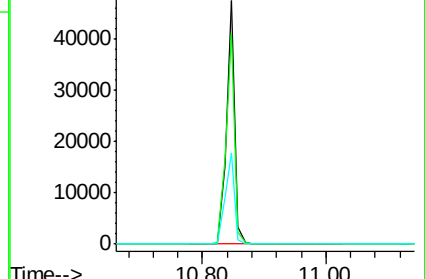
160 37.3 28.7 43.1

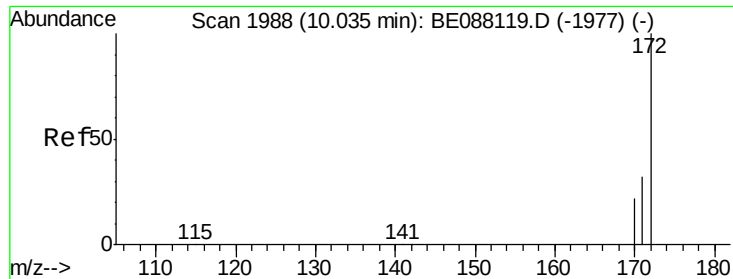


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E





#8

2-Fluorobiphenyl

Concen: 5.11 ng

RT: 10.03 min Scan# 1988

Delta R.T. -0.00 min

Lab File: BE088161.D

Acq: 22 Oct 2014 2:59

Instrument :

BNA_E

ClientSampleId :

YS19-SS08-1014DL

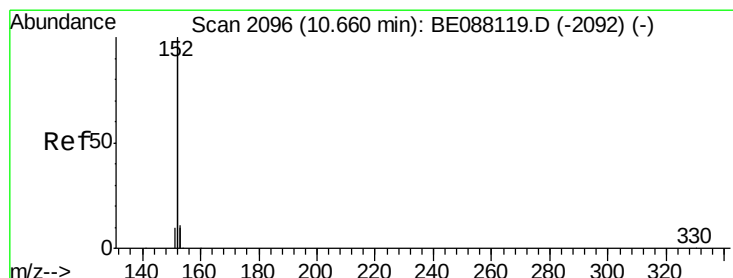
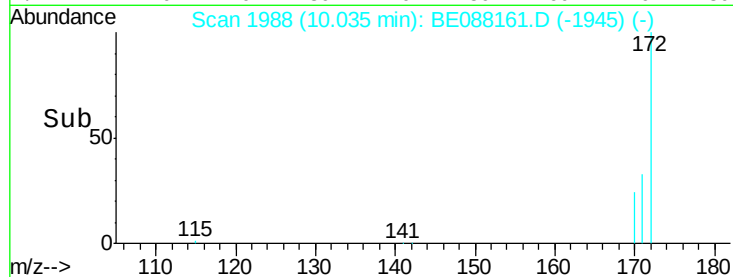
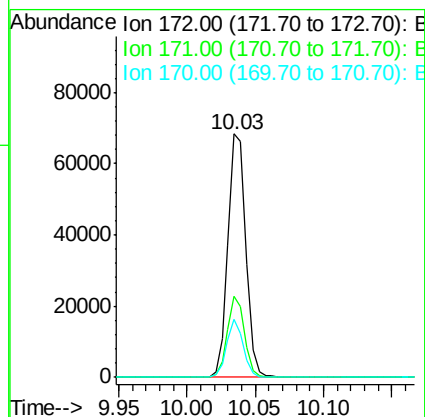
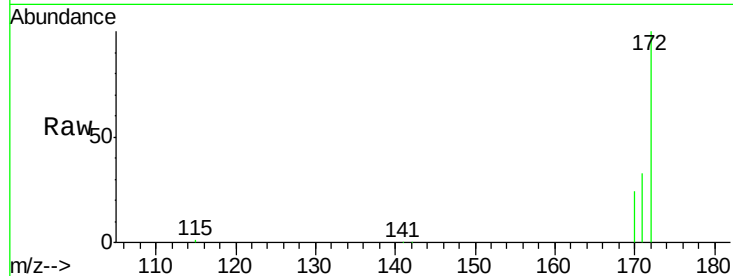
Tgt Ion:172 Resp: 62048

Ion Ratio Lower Upper

172 100

171 33.4 25.4 38.2

170 23.6 17.4 26.2



#9

Acenaphthylene

Concen: 0.16 ng

RT: 10.67 min Scan# 2097

Delta R.T. 0.01 min

Lab File: BE088161.D

Acq: 22 Oct 2014 2:59

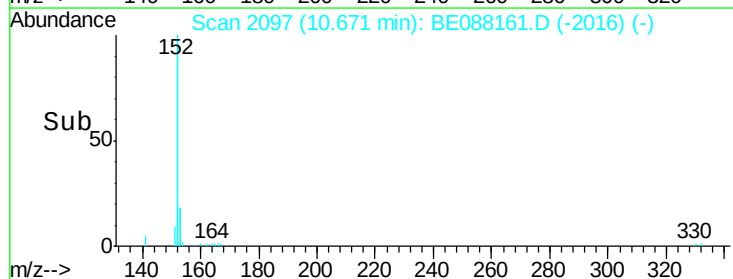
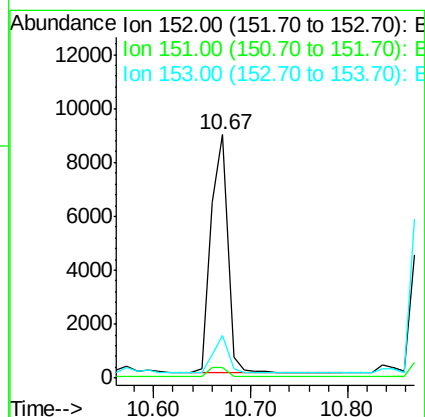
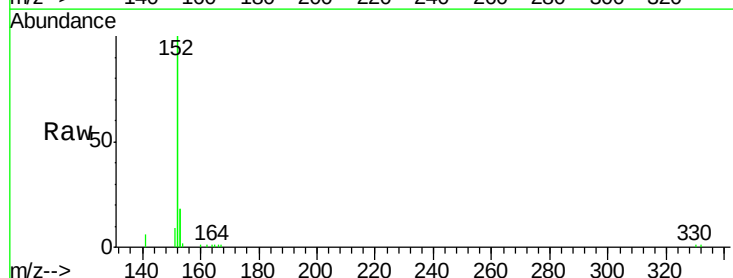
Tgt Ion:152 Resp: 10700

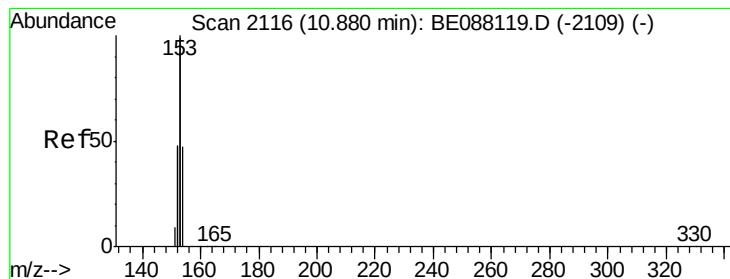
Ion Ratio Lower Upper

152 100

151 4.5 3.7 5.5

153 0.0 10.4 15.6#





#10

Acenaphthene

Concen: 0.99 ng

RT: 10.88 min Scan# 2116

Delta R.T. 0.00 min

Lab File: BE088161.D

Acq: 22 Oct 2014 2:59

Instrument :

BNA_E

ClientSampleId :

YS19-SS08-1014DL

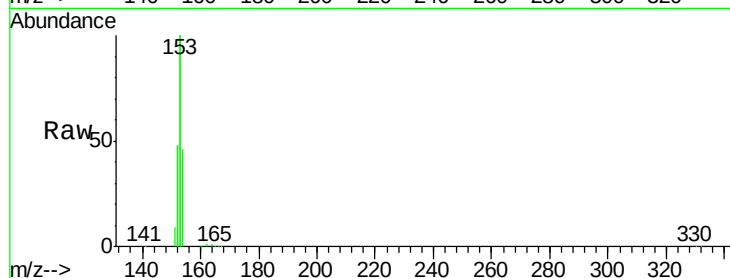
Tgt Ion:154 Resp: 10194

Ion Ratio Lower Upper

154 100

153 413.1 327.8 491.6

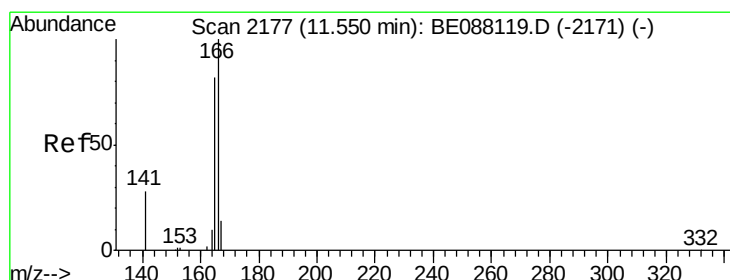
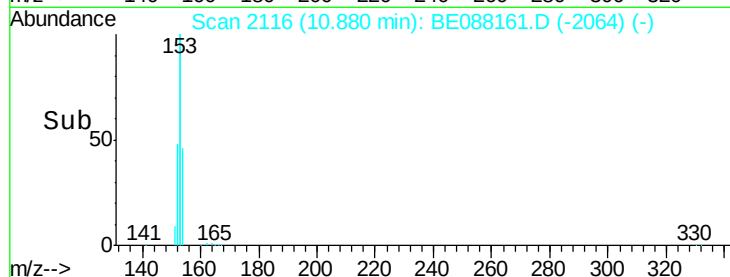
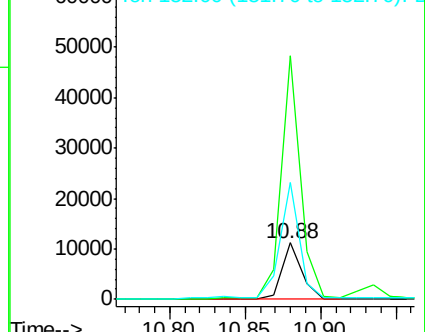
152 203.8 157.6 236.4



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: 1.00 ng

RT: 11.55 min Scan# 2177

Delta R.T. 0.00 min

Lab File: BE088161.D

Acq: 22 Oct 2014 2:59

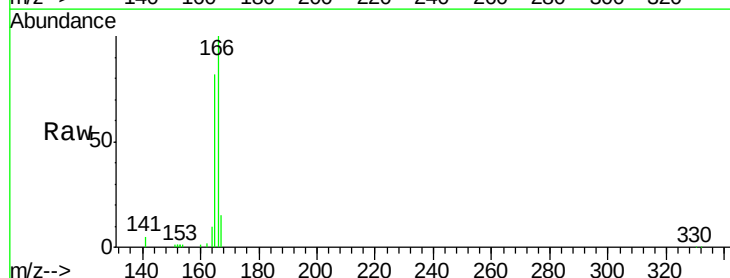
Tgt Ion:166 Resp: 10958

Ion Ratio Lower Upper

166 100

165 88.9 71.4 107.2

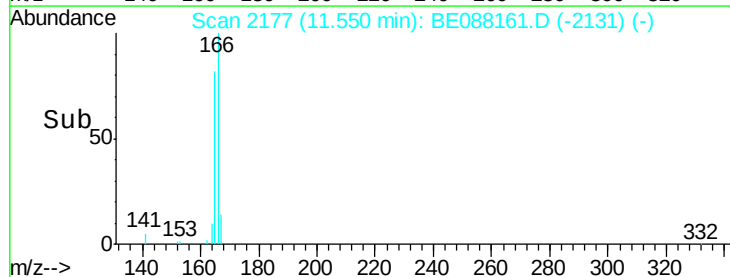
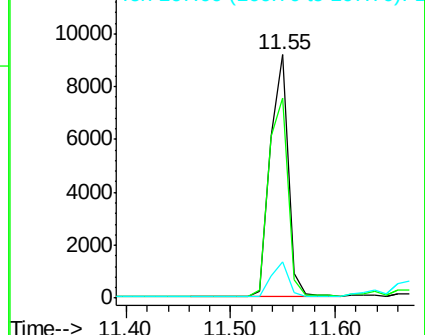
167 13.9 10.6 16.0

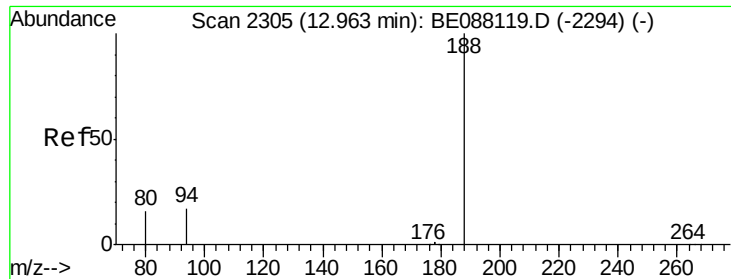


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E

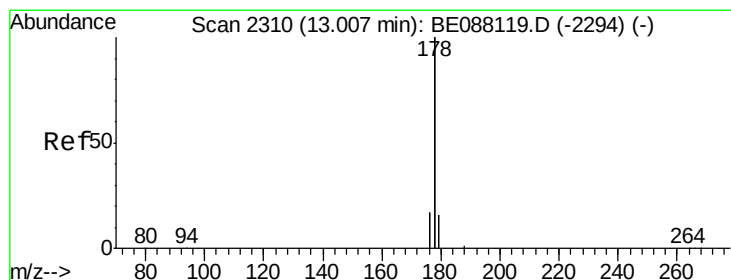
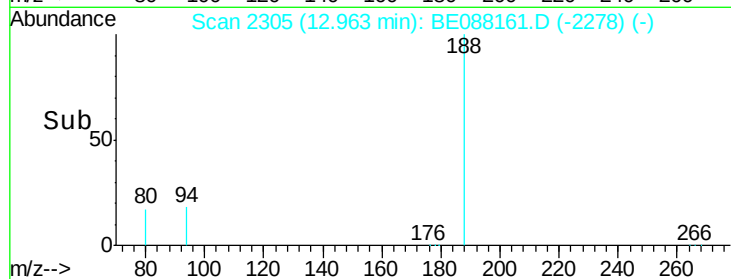
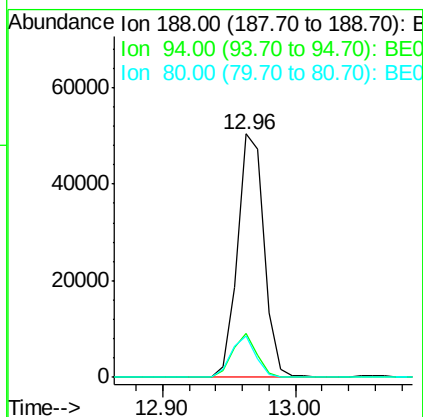
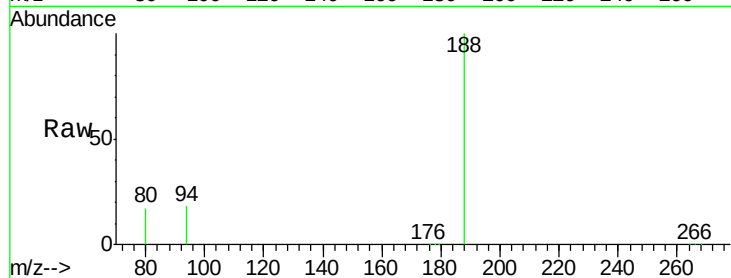




#12
Phenanthrene-d10
Concen: 5.00 ng
RT: 12.96 min Scan# 2305
Delta R.T. -0.00 min
Lab File: BE088161.D
Acq: 22 Oct 2014 2:59

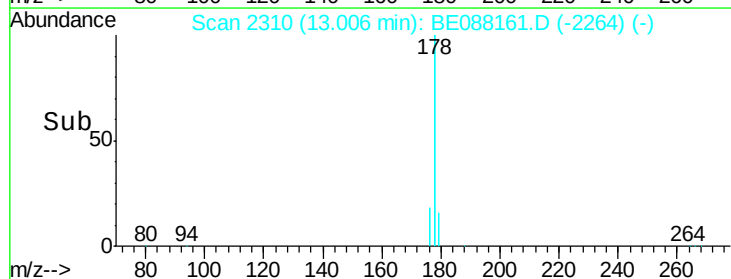
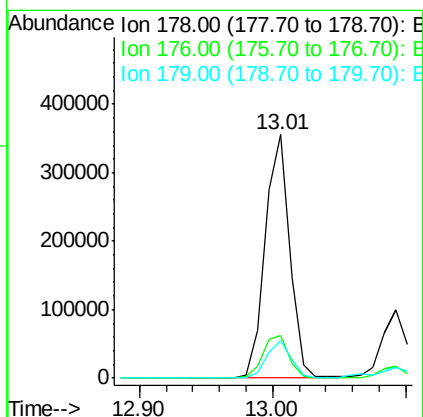
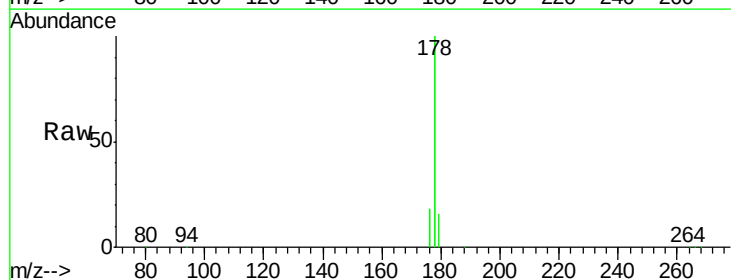
Instrument :
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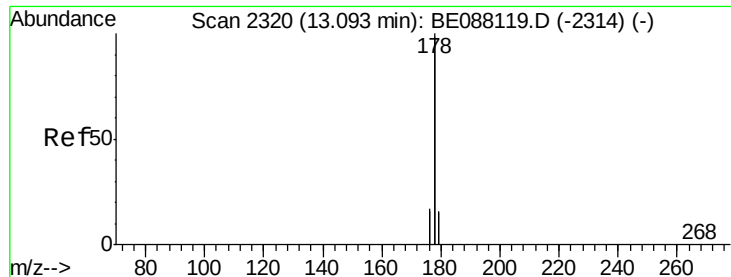
Tgt Ion:188 Resp: 69550
Ion Ratio Lower Upper
188 100
94 17.9 13.9 20.9
80 16.9 12.9 19.3



#13
Phenanthrene
Concen: 9.02 ng
RT: 13.01 min Scan# 2310
Delta R.T. -0.00 min
Lab File: BE088161.D
Acq: 22 Oct 2014 2:59

Tgt Ion:178 Resp: 453324
Ion Ratio Lower Upper
178 100
176 18.6 12.5 18.7
179 15.2 13.5 20.3





#14

Anthracene

Concen: 8.35 ng

RT: 13.01 min Scan# 2310

Delta R.T. -0.09 min

Lab File: BE088161.D

Acq: 22 Oct 2014 2:59

Instrument :

BNA_E

ClientSampleId :

YS19-SS08-1014DL

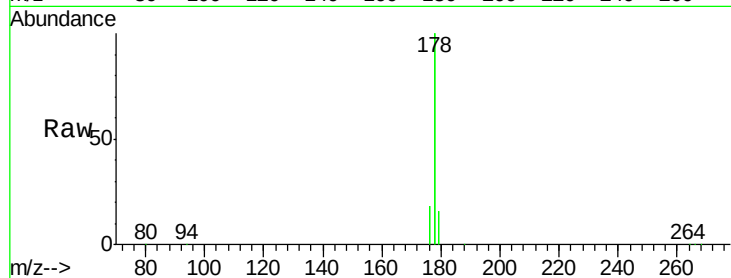
Tgt Ion:178 Resp: 453324

Ion Ratio Lower Upper

178 100

176 18.6 14.6 21.8

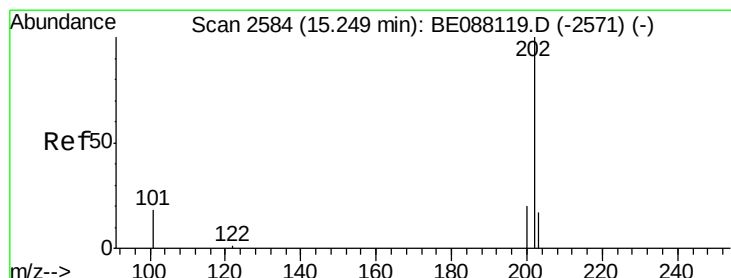
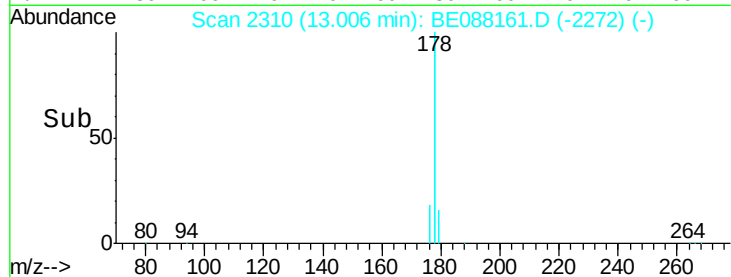
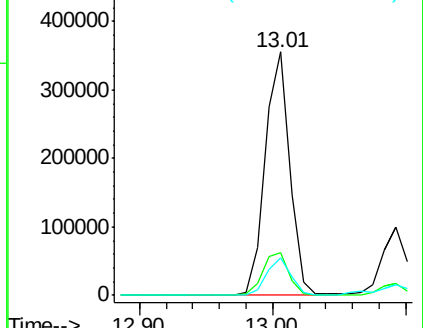
179 15.2 12.5 18.7



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: 9.07 ng

RT: 15.25 min Scan# 2584

Delta R.T. -0.00 min

Lab File: BE088161.D

Acq: 22 Oct 2014 2:59

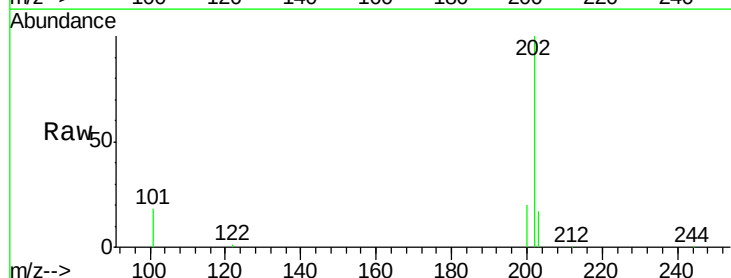
Tgt Ion:202 Resp: 120053

Ion Ratio Lower Upper

202 100

101 18.3 14.8 22.2

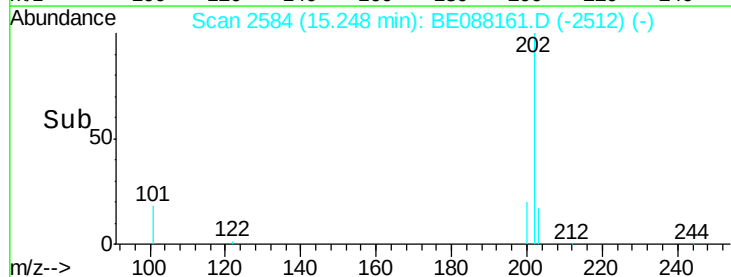
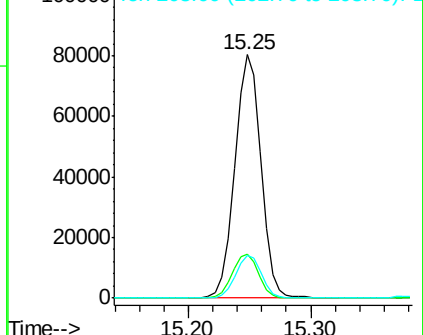
203 17.4 13.5 20.3

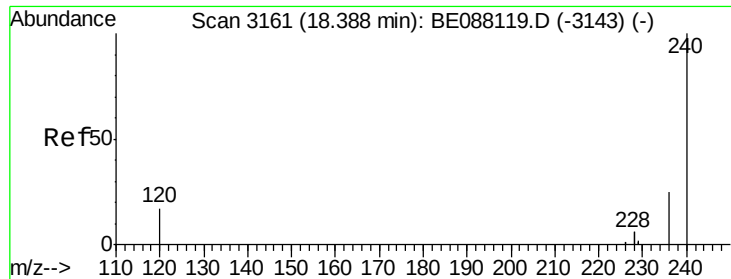


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E

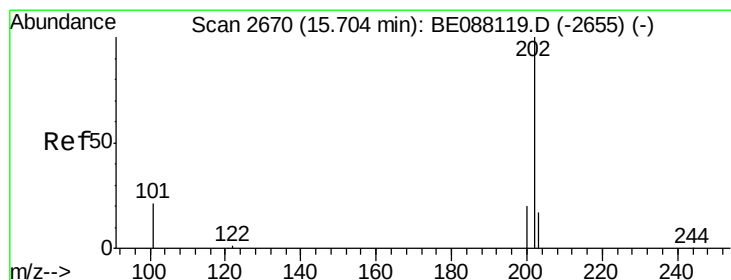
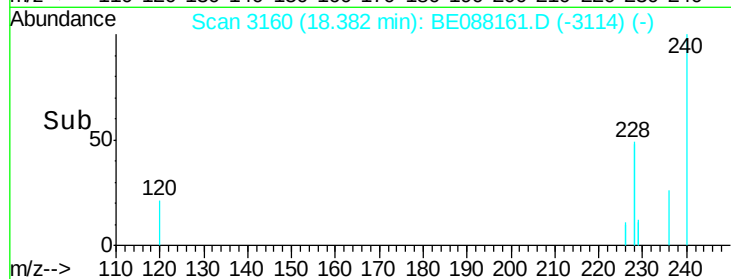
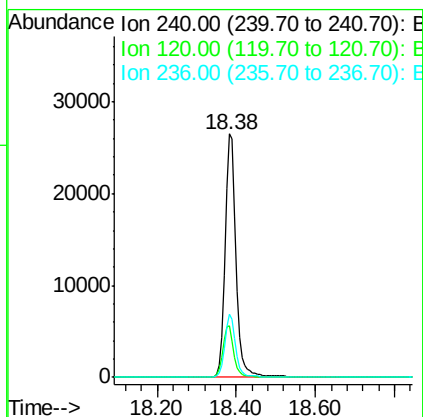
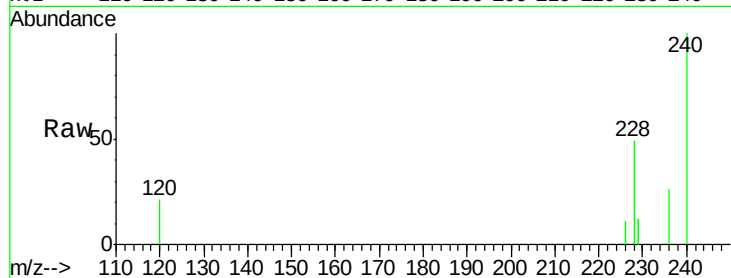




#16
Chrysene-d12
 Concen: 5.00 ng
 RT: 18.38 min Scan# 3160
 Delta R.T. -0.01 min
 Lab File: BE088161.D
 Acq: 22 Oct 2014 2:59

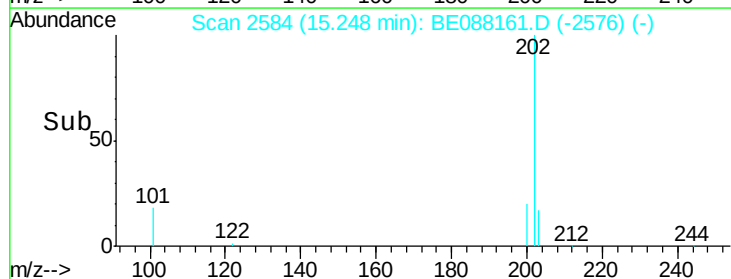
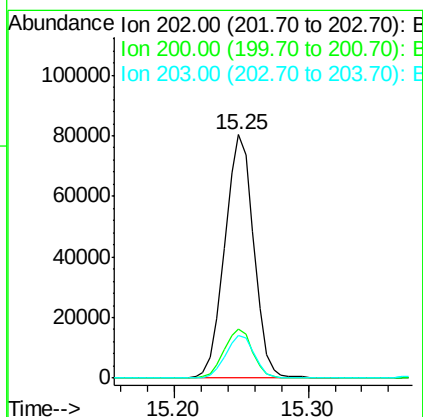
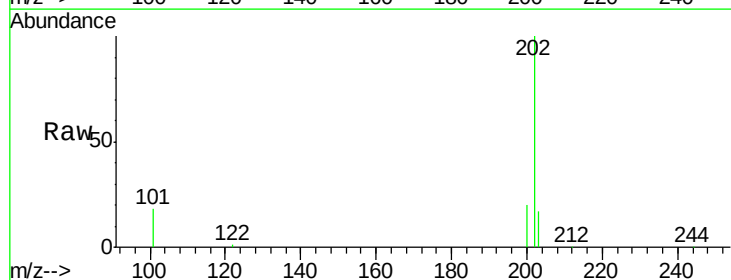
Instrument :
 BNA_E
 ClientSampleId :
 YS19-SS08-1014DL

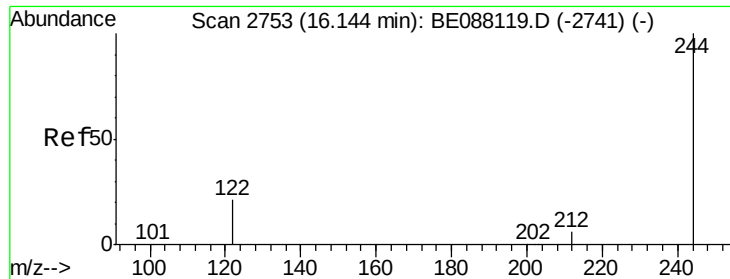
Tgt Ion: 240 Resp: 49370
 Ion Ratio Lower Upper
 240 100
 120 21.1 13.9 20.9#
 236 25.7 19.9 29.9



#17
Pyrene
 Concen: 8.92 ng
 RT: 15.25 min Scan# 2584
 Delta R.T. -0.46 min
 Lab File: BE088161.D
 Acq: 22 Oct 2014 2:59

Tgt Ion: 202 Resp: 119665
 Ion Ratio Lower Upper
 202 100
 200 20.0 16.1 24.1
 203 17.4 13.9 20.9





#18

Terphenyl-d14

Concen: 5.63 ng

RT: 16.14 min Scan# 2753

Delta R.T. -0.00 min

Lab File: BE088161.D

Acq: 22 Oct 2014 2:59

Instrument :

BNA_E

ClientSampleId :

YS19-SS08-1014DL

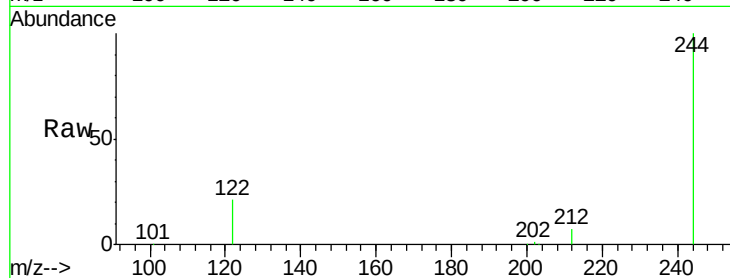
Tgt Ion:244 Resp: 44749

Ion Ratio Lower Upper

244 100

212 6.5 5.4 8.0

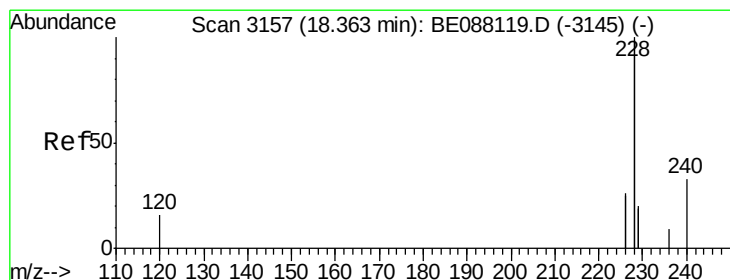
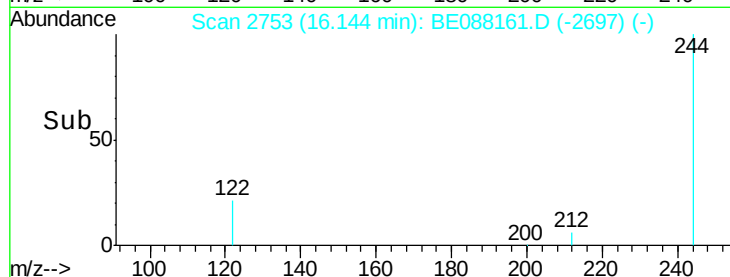
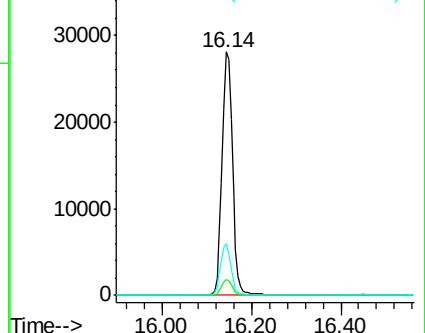
122 21.2 17.5 26.3



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: 3.56 ng

RT: 18.36 min Scan# 3157

Delta R.T. 0.00 min

Lab File: BE088161.D

Acq: 22 Oct 2014 2:59

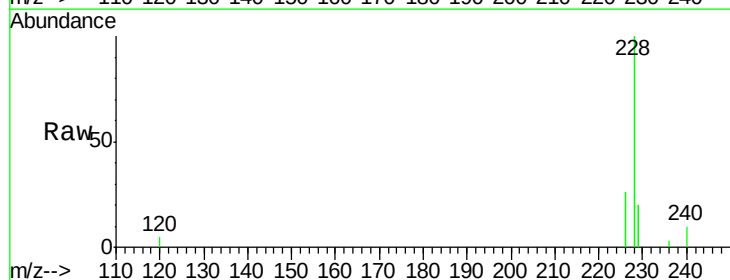
Tgt Ion:228 Resp: 156262

Ion Ratio Lower Upper

228 100

226 25.8 20.8 31.2

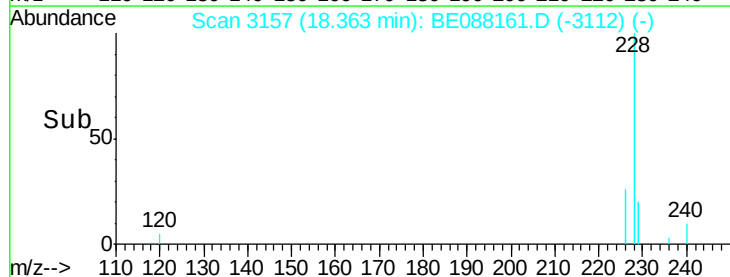
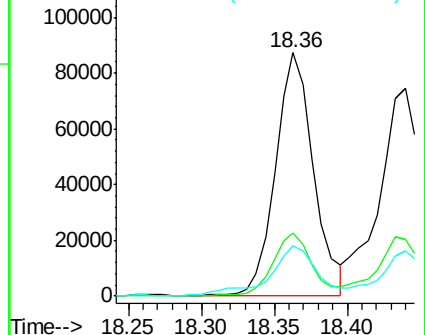
229 20.5 15.6 23.4

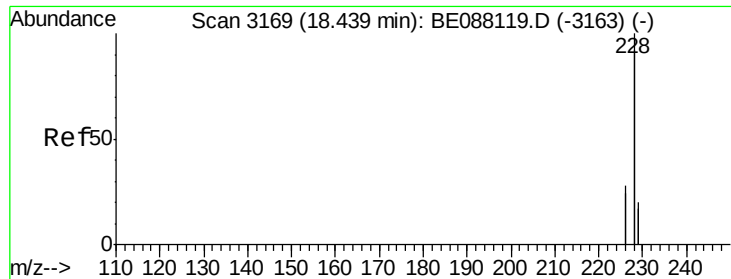


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#20

Chrysene

Concen: 3.62 ng

RT: 18.44 min Scan# 3169

Delta R.T. 0.00 min

Lab File: BE088161.D

Acq: 22 Oct 2014 2:59

Instrument :

BNA_E

ClientSampleId :

YS19-SS08-1014DL

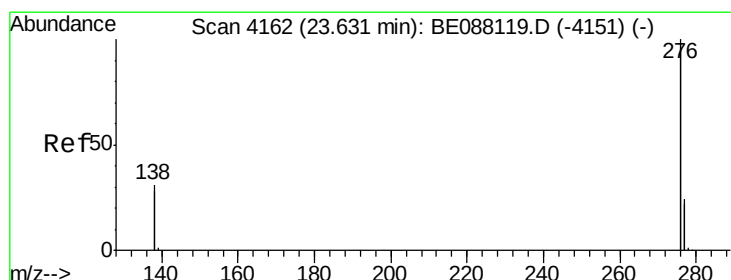
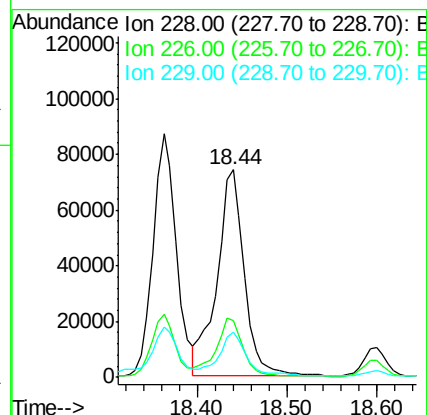
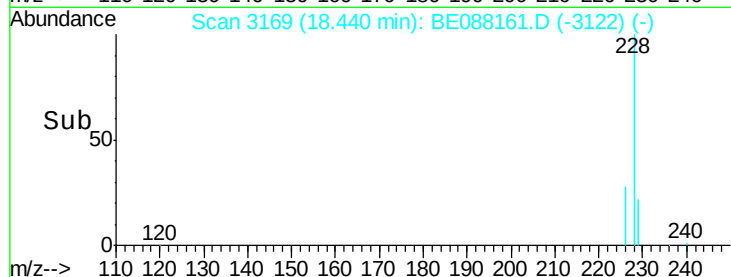
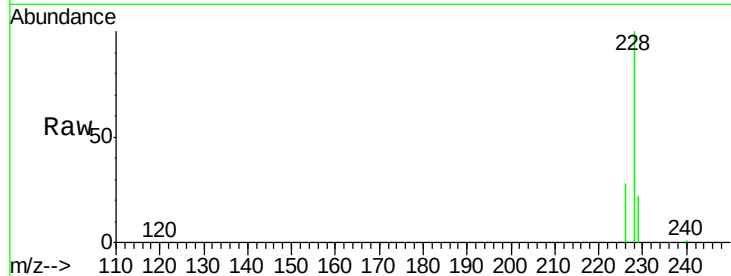
Tgt Ion:228 Resp: 155920

Ion Ratio Lower Upper

228 100

226 27.5 22.7 34.1

229 21.9 15.8 23.6



#21

Indeno(1,2,3-cd)pyrene

Concen: 1.36 ng

RT: 23.63 min Scan# 4162

Delta R.T. -0.00 min

Lab File: BE088161.D

Acq: 22 Oct 2014 2:59

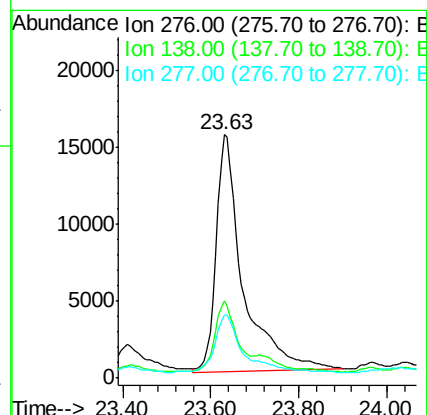
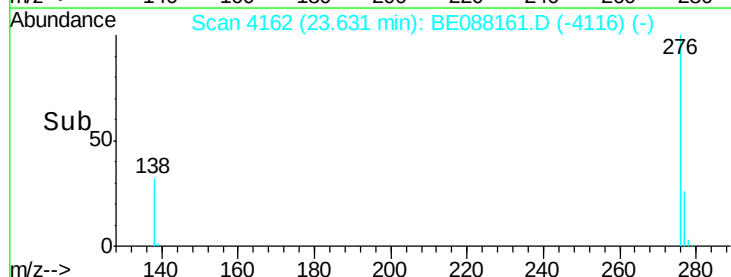
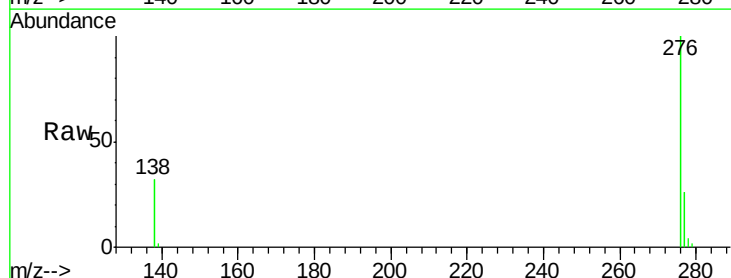
Tgt Ion:276 Resp: 65014

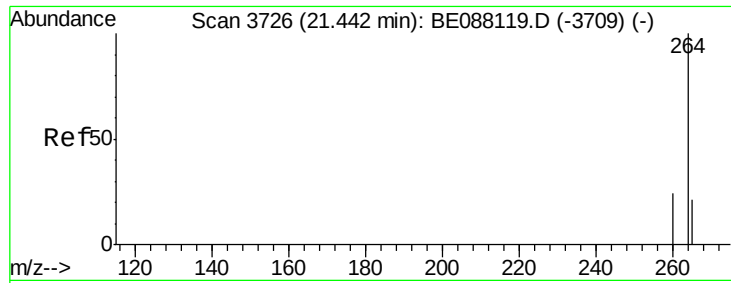
Ion Ratio Lower Upper

276 100

138 24.1 18.5 27.7

277 26.9 14.6 21.8#

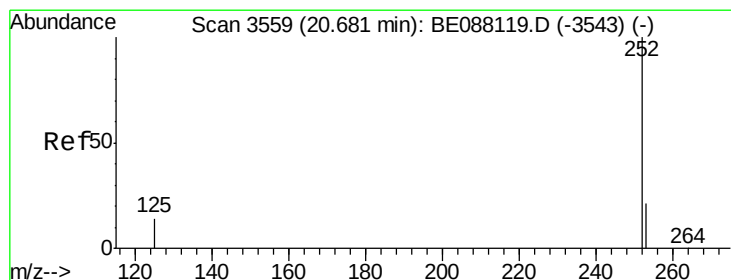
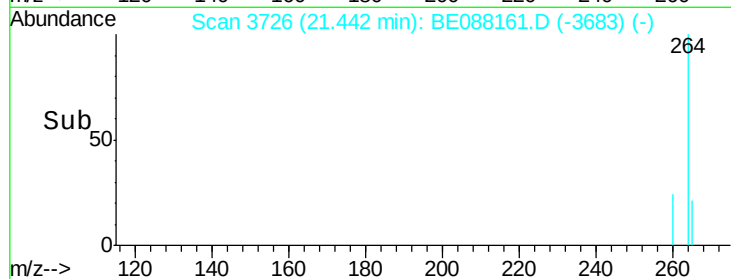
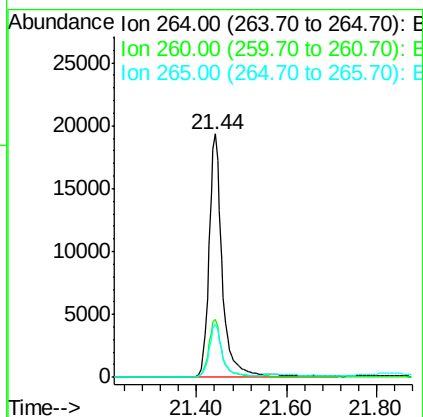
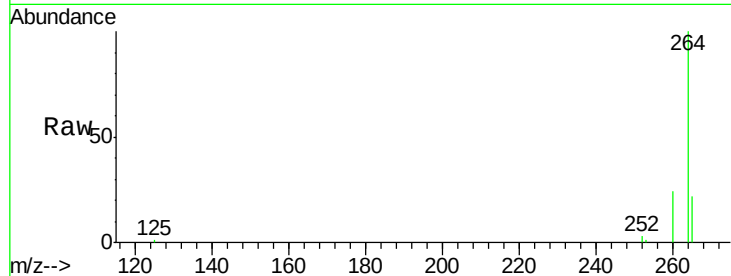




#22
Perylene-d12
 Concen: 5.00 ng
 RT: 21.44 min Scan# 3726
 Delta R.T. -0.00 min
 Lab File: BE088161.D
 Acq: 22 Oct 2014 2:59

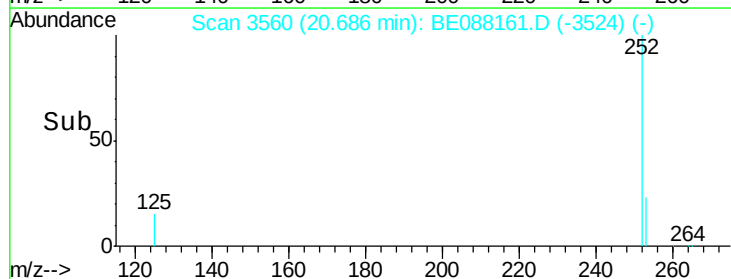
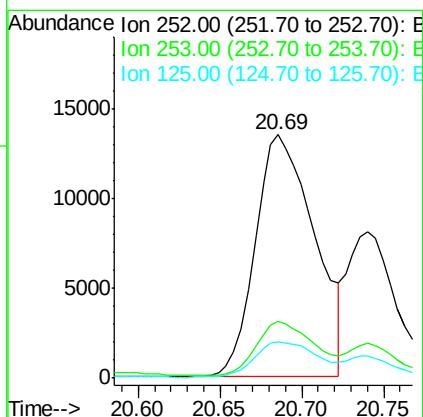
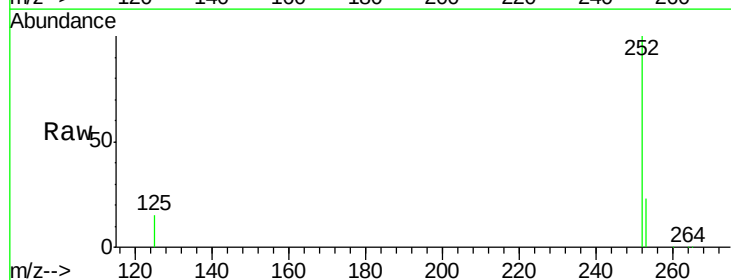
Instrument :
 BNA_E
 ClientSampleId :
 YS19-SS08-1014DL

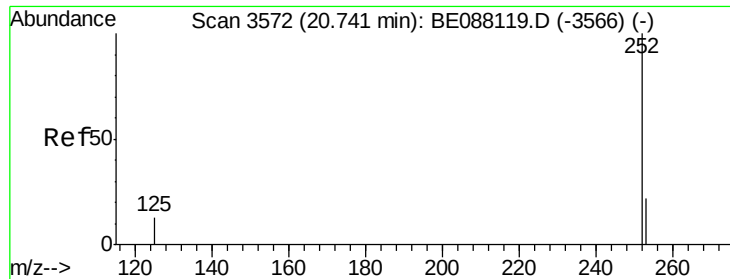
Tgt Ion: 264 Resp: 39030
 Ion Ratio Lower Upper
 264 100
 260 23.8 19.0 28.4
 265 21.7 17.2 25.8



#23
Benzo(b)fluoranthene
 Concen: 3.66 ng
 RT: 20.69 min Scan# 3560
 Delta R.T. 0.00 min
 Lab File: BE088161.D
 Acq: 22 Oct 2014 2:59

Tgt Ion: 252 Resp: 33967
 Ion Ratio Lower Upper
 252 100
 253 23.0 17.4 26.0
 125 15.0 11.8 17.8





#24

Benzo(k)fluoranthene

Concen: 1.83 ng

RT: 20.74 min Scan# 3572

Delta R.T. -0.00 min

Lab File: BE088161.D

Acq: 22 Oct 2014 2:59

Instrument :

BNA_E

ClientSampleId :

YS19-SS08-1014DL

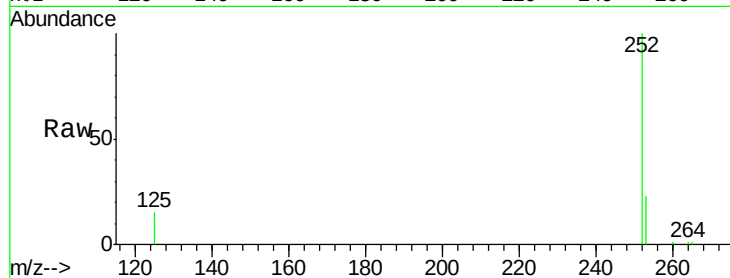
Tgt Ion:252 Resp: 18197

Ion Ratio Lower Upper

252 100

253 23.5 17.6 26.4

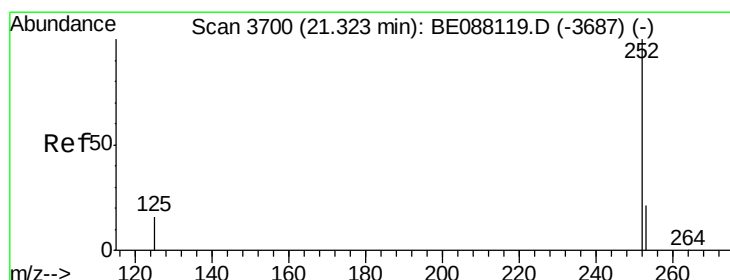
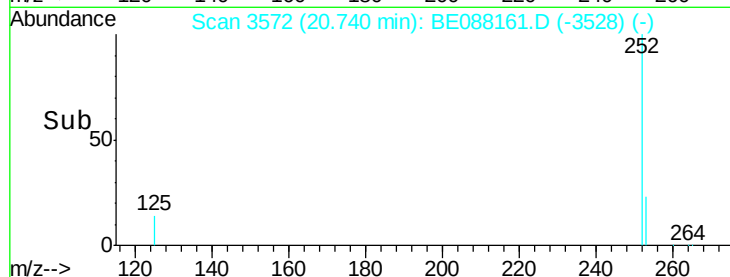
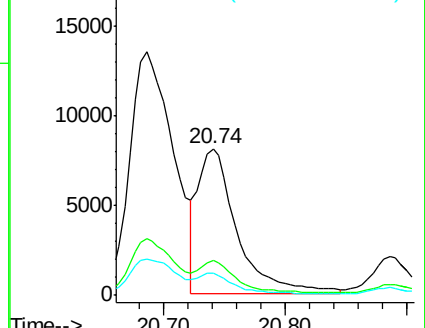
125 15.1 11.5 17.3



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: 2.88 ng

RT: 21.32 min Scan# 3700

Delta R.T. -0.00 min

Lab File: BE088161.D

Acq: 22 Oct 2014 2:59

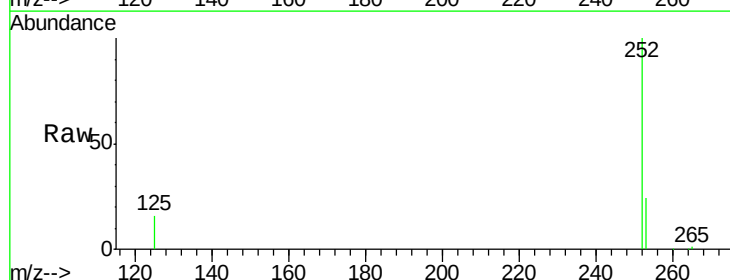
Tgt Ion:252 Resp: 24622

Ion Ratio Lower Upper

252 100

253 23.5 17.5 26.3

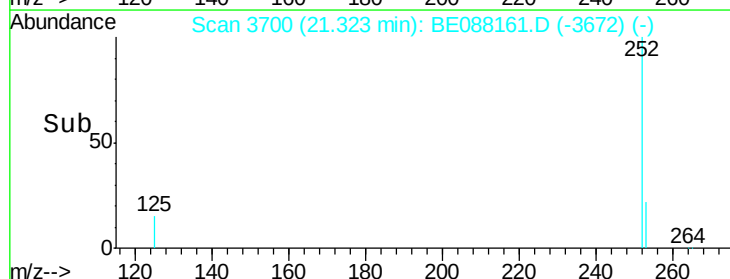
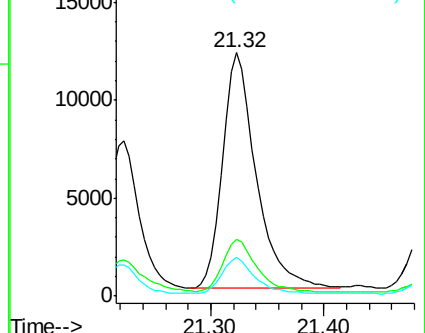
125 15.7 13.0 19.6

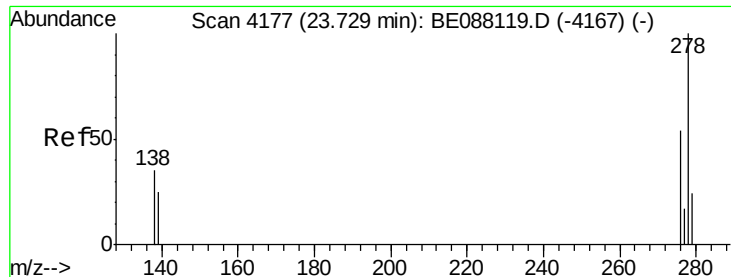


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#26

Dibenzo(a,h)anthracene

Concen: 0.36 ng

RT: 23.73 min Scan# 4177

Delta R.T. -0.00 min

Lab File: BE088161.D

Acq: 22 Oct 2014 2:59

Instrument :

BNA_E

ClientSampleId :

YS19-SS08-1014DL

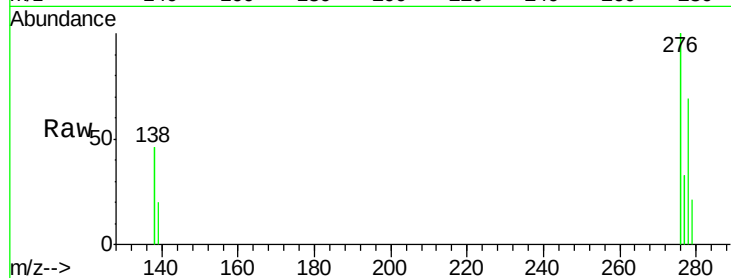
Tgt Ion: 278 Resp: 3019

Ion Ratio Lower Upper

278 100

139 29.1 20.9 31.3

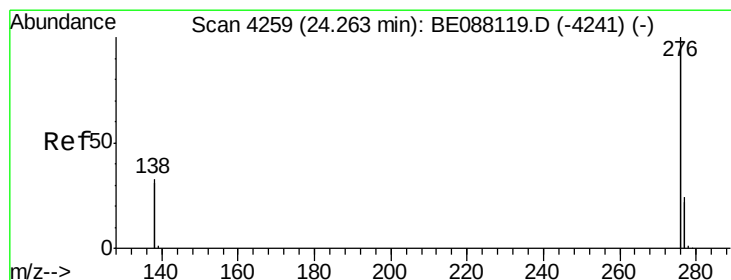
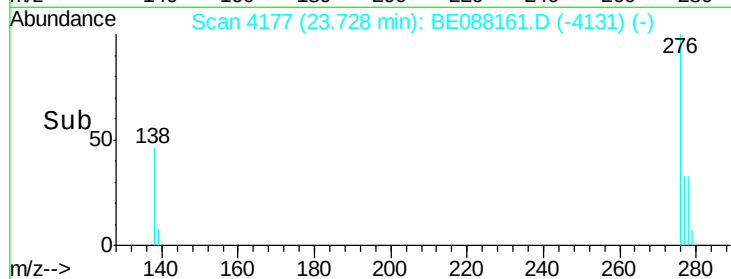
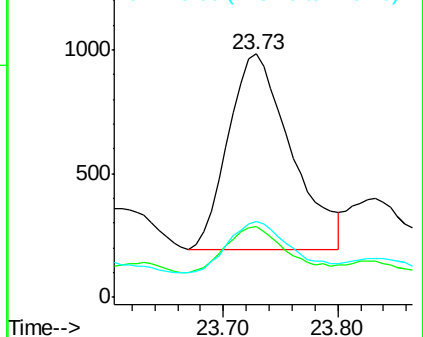
279 31.2 19.8 29.8#



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: 1.66 ng

RT: 24.26 min Scan# 4259

Delta R.T. -0.00 min

Lab File: BE088161.D

Acq: 22 Oct 2014 2:59

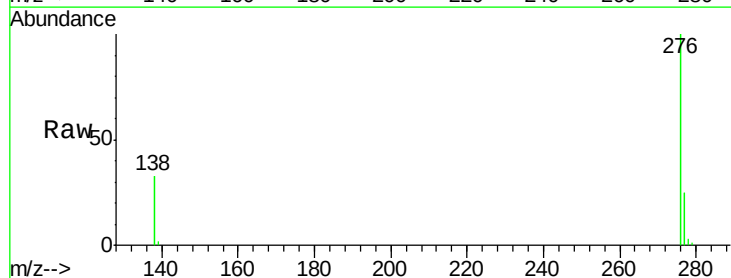
Tgt Ion: 276 Resp: 61652

Ion Ratio Lower Upper

276 100

277 24.8 19.2 28.8

138 32.8 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

