

Data Path : Z:\HPCHEM1\BNA_E\Data\BE102114\
 Data File : BE088169.D
 Acq On : 22 Oct 2014 7:28
 Operator : TP/JJ
 Sample : F4312-09 5X
 Misc :
 ALS Vial : 27 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 YS19-SS27-1014

Quant Time: Oct 22 08:04:57 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

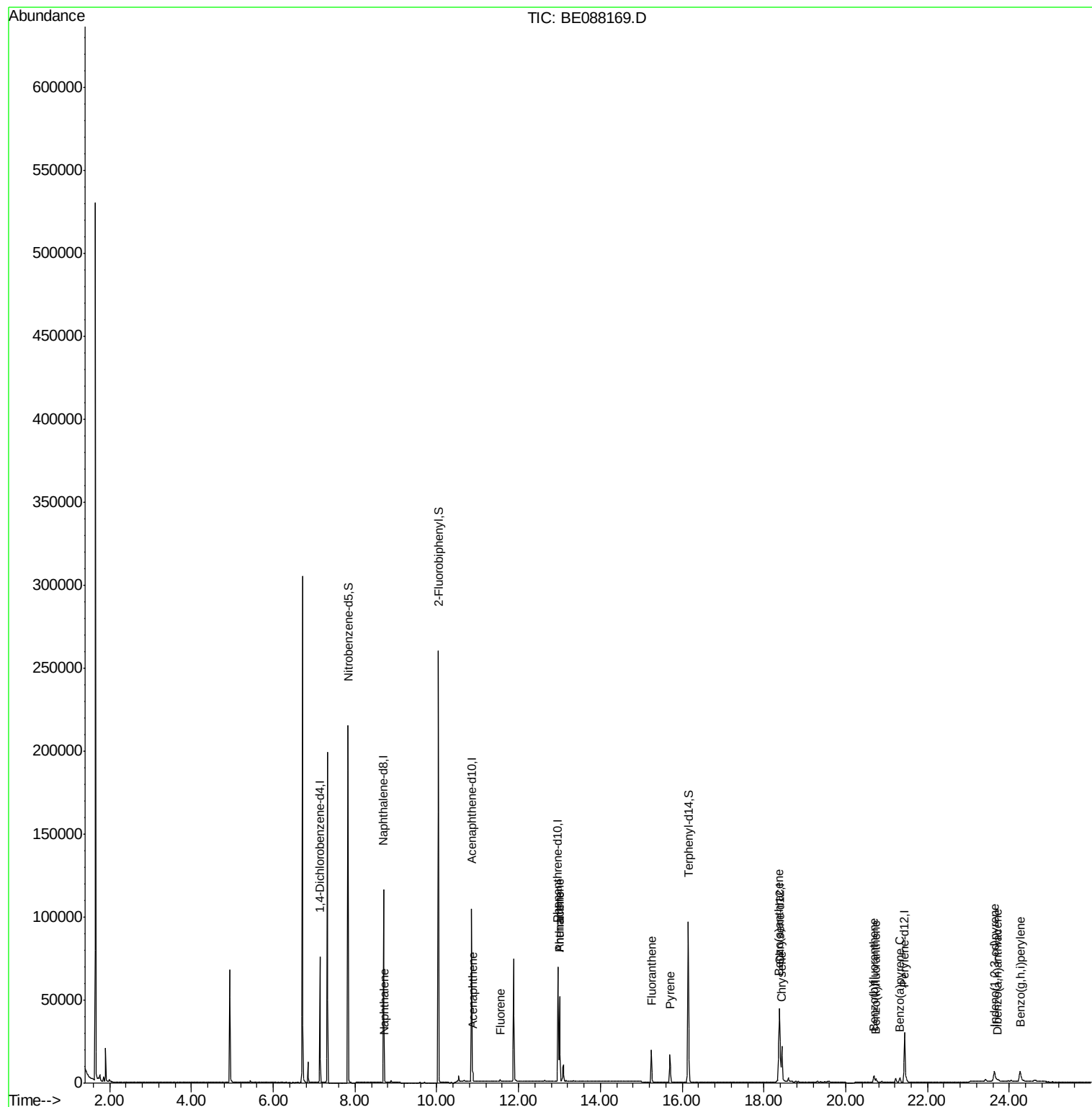
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.14	152	20974	5.00	ng	0.00
3) Naphthalene-d8	8.70	136	84569	5.00	ng	0.00
7) Acenaphthene-d10	10.85	164	43371	5.00	ng	0.00
12) Phenanthrene-d10	12.96	188	83448	5.00	ng	0.00
16) Chrysene-d12	18.38	240	47306	5.00	ng	0.00
22) Perylene-d12	21.44	264	40946	5.00	ng	0.00
System Monitoring Compounds						
4) Nitrobenzene-d5	7.83	82	90908	14.91	ng	0.00
8) 2-Fluorobiphenyl	10.04	172	155791	13.00	ng	0.00
18) Terphenyl-d14	16.15	244	122765	16.13	ng	0.00
Target Compounds						Qvalue
5) Naphthalene	8.72	128	366	0.02	ng	# 76
10) Acenaphthene	10.88	154	761	0.07	ng	# 68
11) Fluorene	11.55	166	677	0.06	ng	99
13) Phenanthrene	13.01	178	51468	0.64	ng	# 96
14) Anthracene	13.01	178	51468	0.79	ng	97
15) Fluoranthene	15.25	202	18677	1.18	ng	99
17) Pyrene	15.70	202	15829	1.23	ng	97
19) Benzo(a)anthracene	18.36	228	27129	0.64	ng	98
20) Chrysene	18.44	228	30812	0.75	ng	97
21) Indeno(1,2,3-cd)pyrene	23.64	276	15671	0.34	ng	# 85
23) Benzo(b)fluoranthene	20.69	252	7695	0.79	ng	95
24) Benzo(k)fluoranthene	20.74	252	3605	0.35	ng	# 93
25) Benzo(a)pyrene	21.32	252	5075	0.57	ng	95
26) Dibenzo(a,h)anthracene	23.72	278	744	0.08	ng	# 68
27) Benzo(g,h,i)perylene	24.26	276	15089	0.39	ng	95

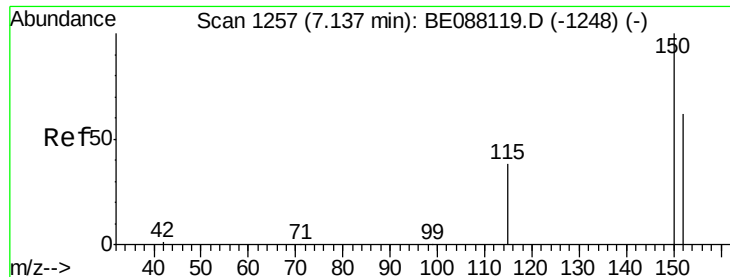
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: BE088169.D

Acq: 22 Oct 2014 7:28

Instrument :

BNA_E

ClientSampleId :

YS19-SS27-1014

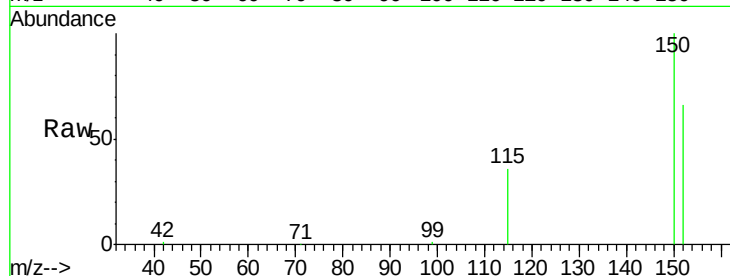
Tgt Ion:152 Resp: 20974

Ion Ratio Lower Upper

152 100

150 151.1 129.2 193.8

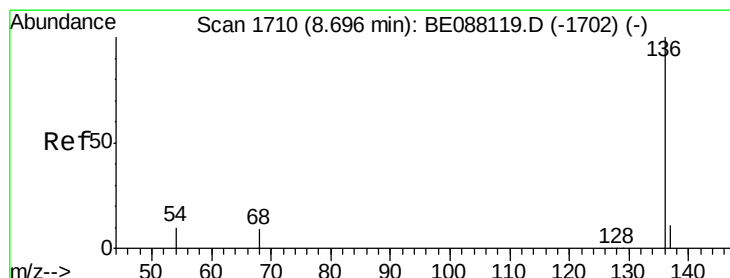
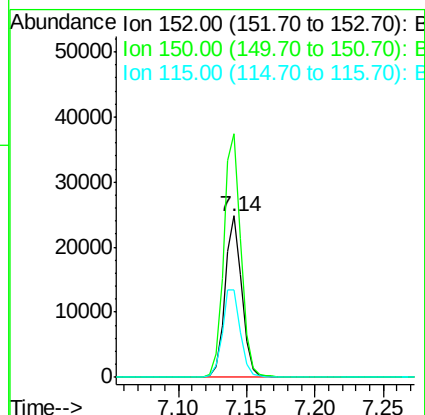
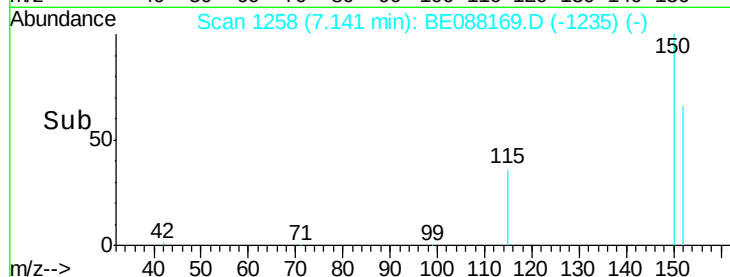
115 54.3 49.3 73.9



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: BE088169.D

Acq: 22 Oct 2014 7:28

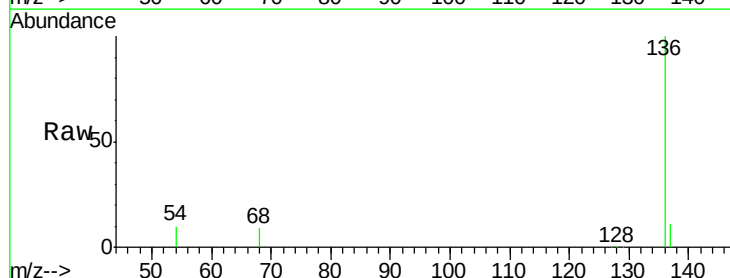
Tgt Ion:136 Resp: 84569

Ion Ratio Lower Upper

136 100

137 10.6 8.6 12.8

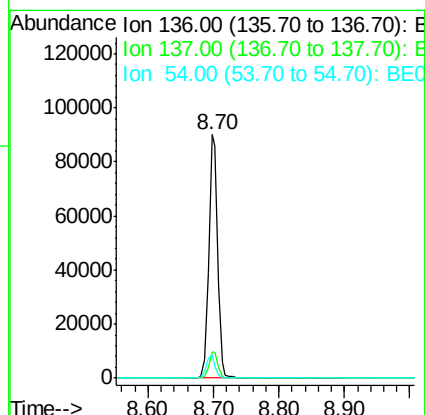
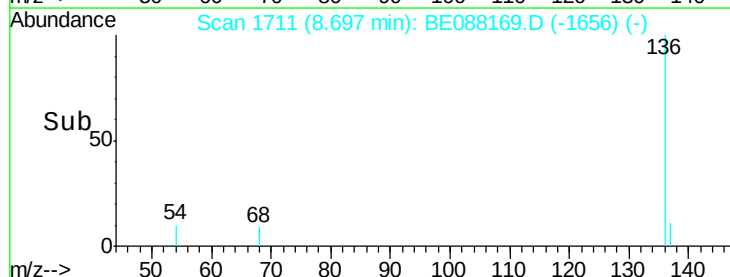
54 9.8 7.7 11.5

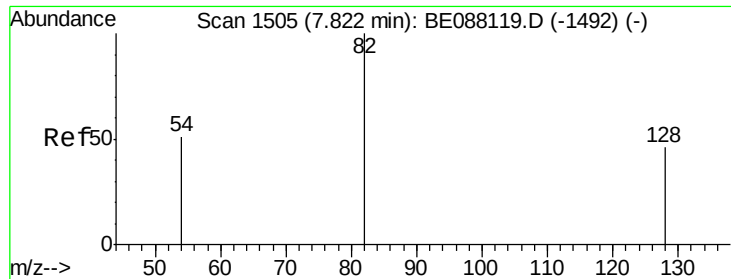


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BE0





#4

Nitrobenzene-d5

Concen: 14.91 ng

RT: 7.83 min Scan# 1507

Delta R.T. 0.00 min

Lab File: BE088169.D

Acq: 22 Oct 2014 7:28

Instrument :

BNA_E

ClientSampleId :

YS19-SS27-1014

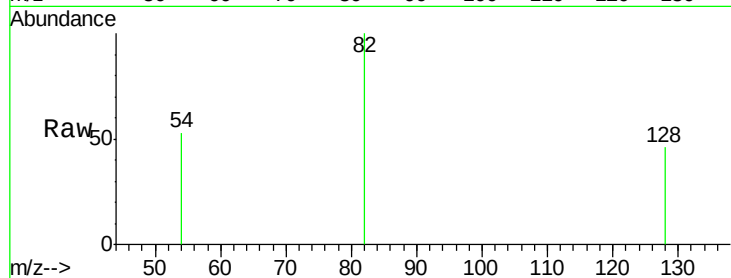
Tgt Ion: 82 Resp: 90908

Ion Ratio Lower Upper

82 100

128 45.5 37.1 55.7

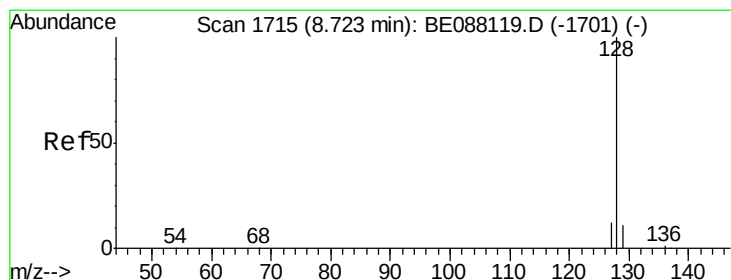
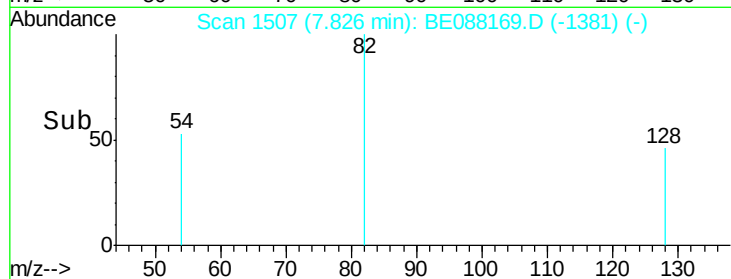
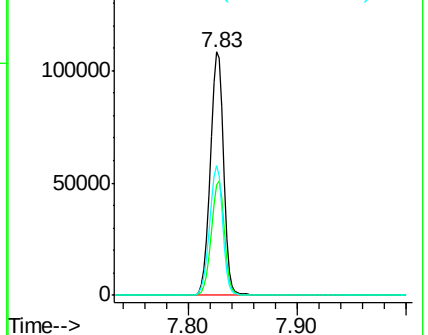
54 53.5 41.1 61.7



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: 0.02 ng

RT: 8.72 min Scan# 1716

Delta R.T. 0.00 min

Lab File: BE088169.D

Acq: 22 Oct 2014 7:28

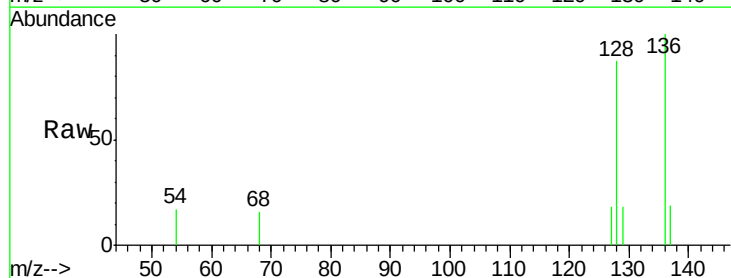
Tgt Ion: 128 Resp: 366

Ion Ratio Lower Upper

128 100

129 21.0 8.9 13.3#

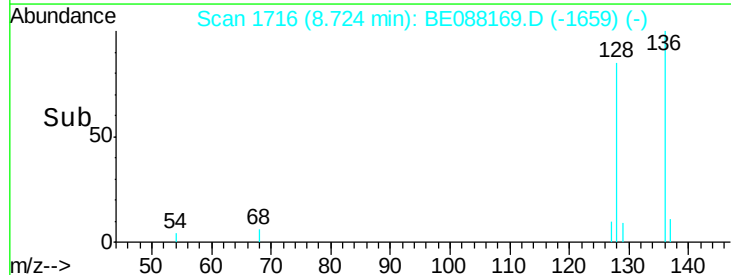
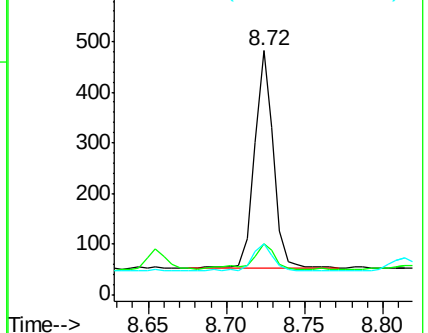
127 21.0 9.7 14.5#

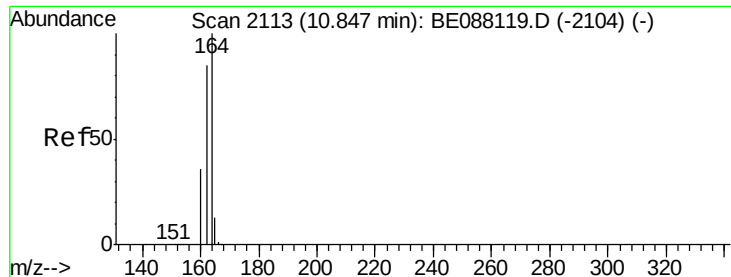


Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E





#7

Acenaphthene-d10

Concen: 5.00 ng

RT: 10.85 min Scan# 2114

Delta R.T. 0.00 min

Lab File: BE088169.D

Acq: 22 Oct 2014 7:28

Instrument :

BNA_E

ClientSampleId :

YS19-SS27-1014

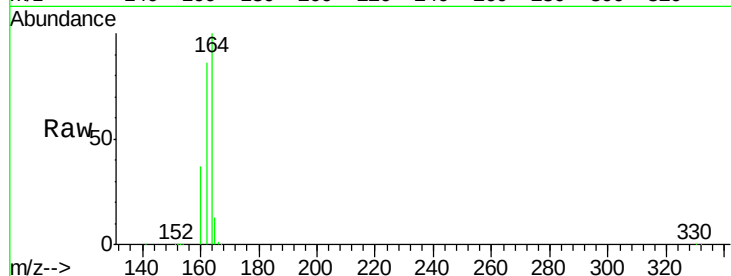
Tgt Ion:164 Resp: 43371

Ion Ratio Lower Upper

164 100

162 86.3 68.3 102.5

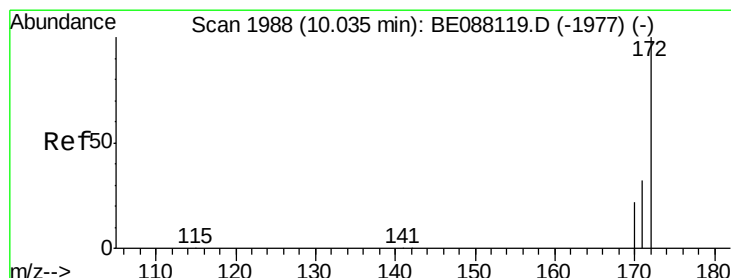
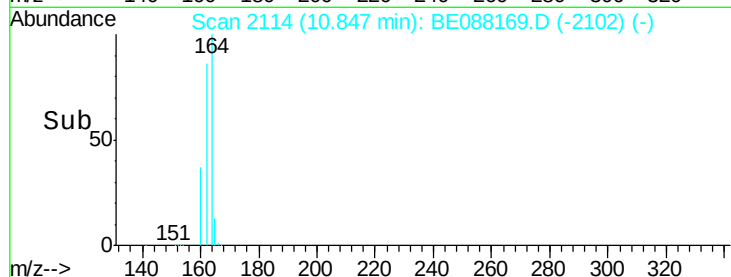
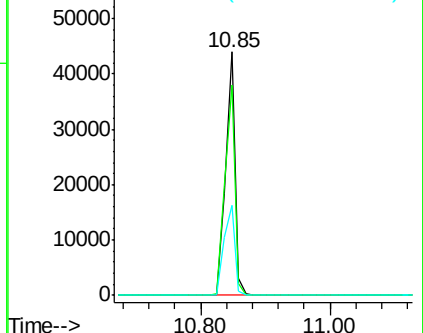
160 36.8 28.7 43.1



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: 13.00 ng

RT: 10.04 min Scan# 1989

Delta R.T. 0.00 min

Lab File: BE088169.D

Acq: 22 Oct 2014 7:28

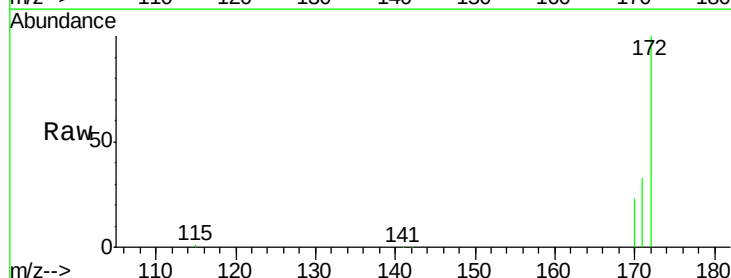
Tgt Ion:172 Resp: 155791

Ion Ratio Lower Upper

172 100

171 33.3 25.4 38.2

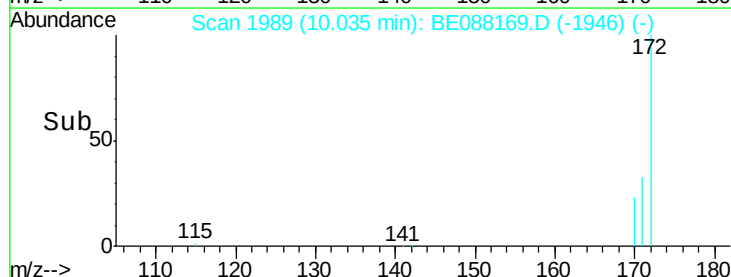
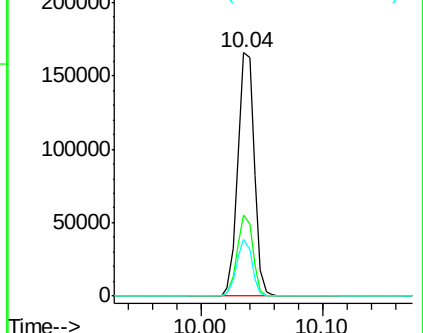
170 23.3 17.4 26.2

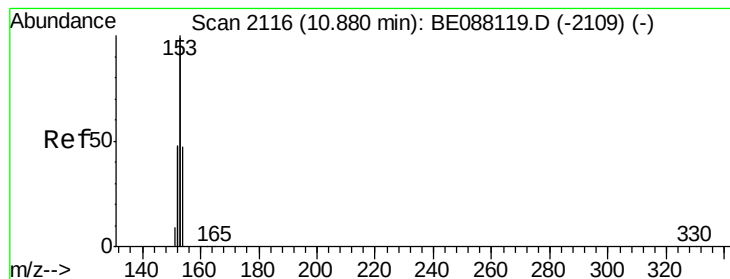


Abundance Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E





#10

Acenaphthene

Concen: 0.07 ng

RT: 10.88 min Scan# 2117

Delta R.T. 0.00 min

Lab File: BE088169.D

Acq: 22 Oct 2014 7:28

Instrument :

BNA_E

ClientSampleId :

YS19-SS27-1014

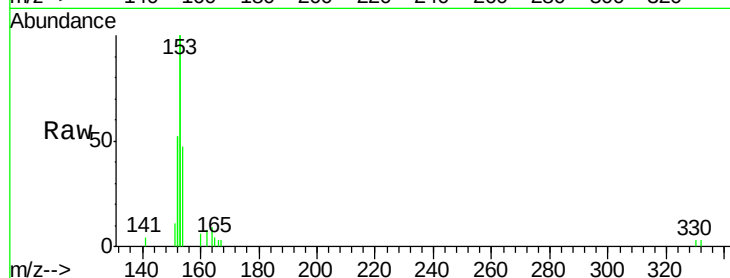
Tgt Ion:154 Resp: 761

Ion Ratio Lower Upper

154 100

153 321.2 327.8 491.6#

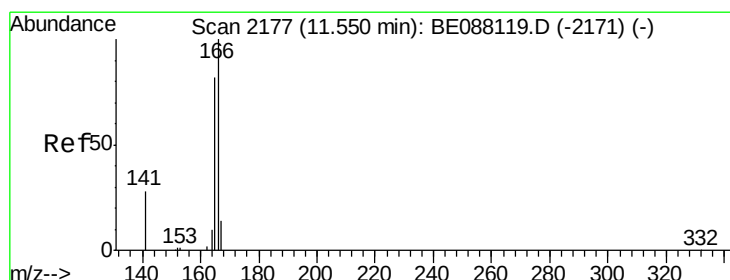
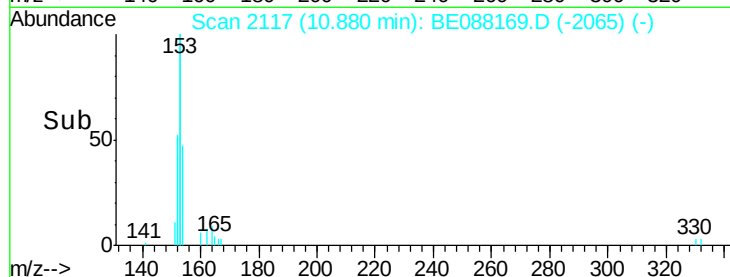
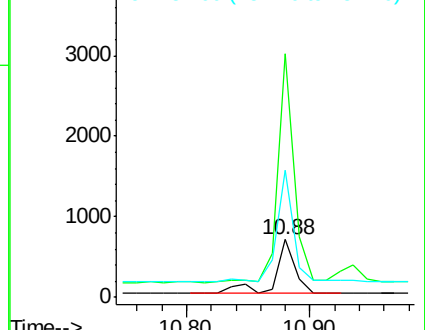
152 164.5 157.6 236.4



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: 0.06 ng

RT: 11.55 min Scan# 2178

Delta R.T. 0.00 min

Lab File: BE088169.D

Acq: 22 Oct 2014 7:28

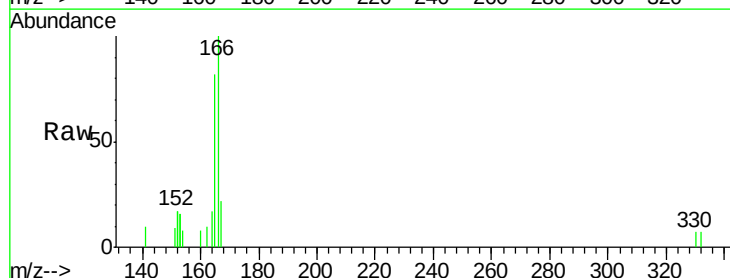
Tgt Ion:166 Resp: 677

Ion Ratio Lower Upper

166 100

165 90.0 71.4 107.2

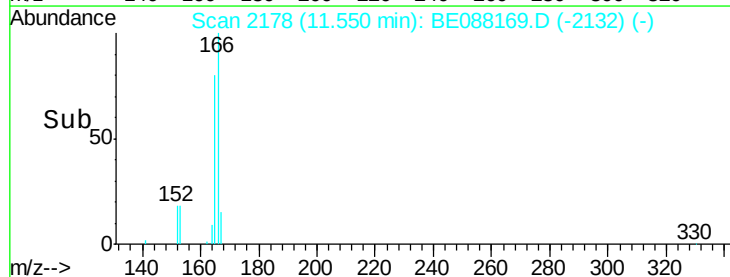
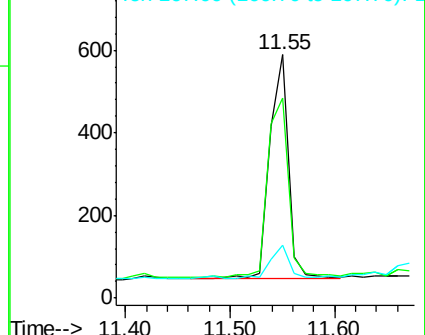
167 14.3 10.6 16.0

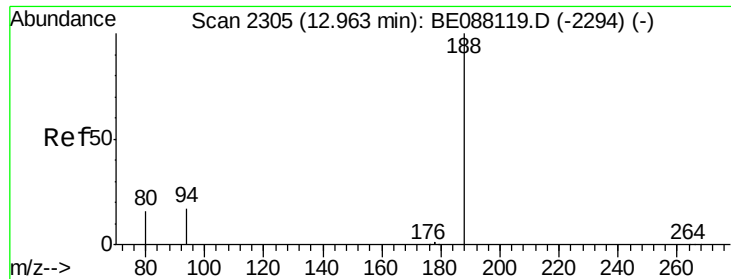


Abundance Ion 166.00 (165.70 to 166.70): E

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: BE088169.D

Acq: 22 Oct 2014 7:28

Instrument :

BNA_E

ClientSampleId :

YS19-SS27-1014

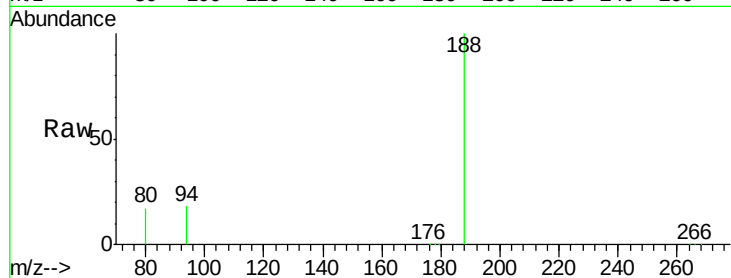
Tgt Ion:188 Resp: 83448

Ion Ratio Lower Upper

188 100

94 17.8 13.9 20.9

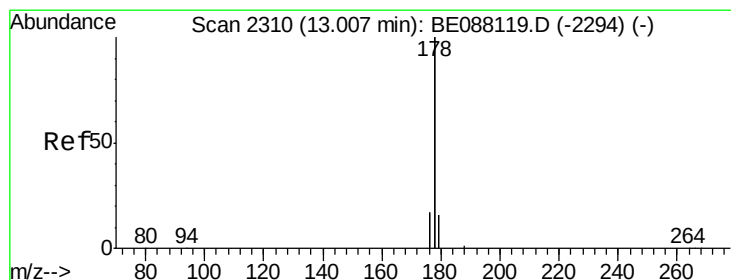
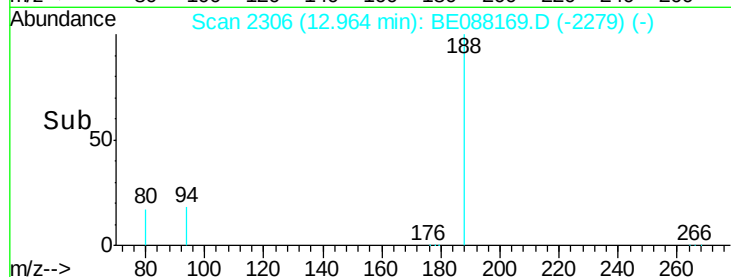
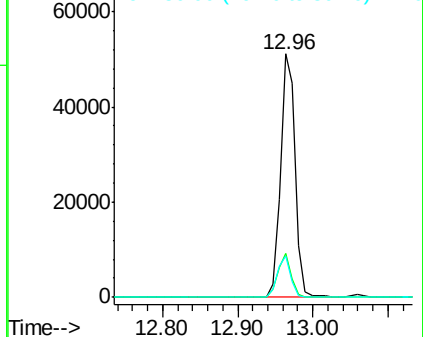
80 16.9 12.9 19.3



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: 0.64 ng

RT: 13.01 min Scan# 2311

Delta R.T. 0.00 min

Lab File: BE088169.D

Acq: 22 Oct 2014 7:28

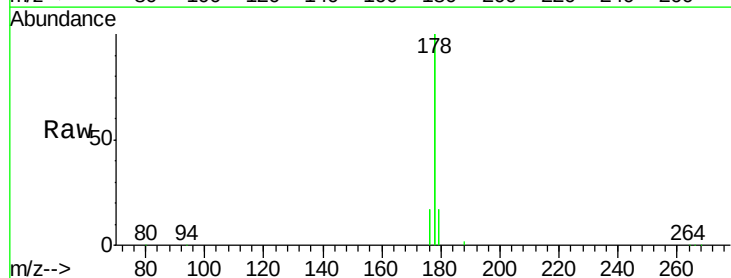
Tgt Ion:178 Resp: 51468

Ion Ratio Lower Upper

178 100

176 19.3 12.5 18.7#

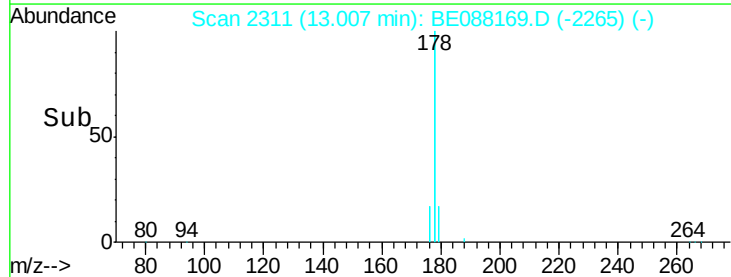
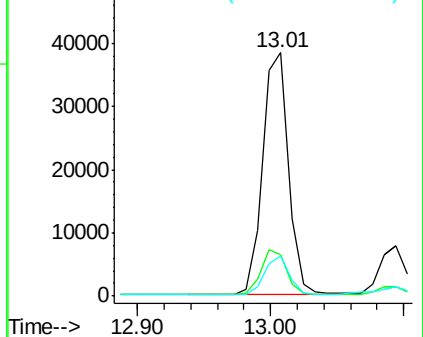
179 17.0 13.5 20.3

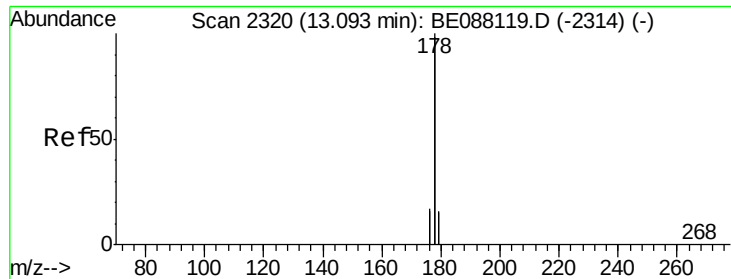


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#14

Anthracene

Concen: 0.79 ng

RT: 13.01 min Scan# 2311

Delta R.T. -0.09 min

Lab File: BE088169.D

Acq: 22 Oct 2014 7:28

Instrument :

BNA_E

ClientSampleId :

YS19-SS27-1014

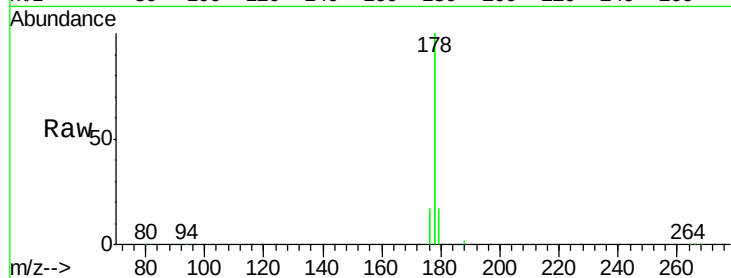
Tgt Ion:178 Resp: 51468

Ion Ratio Lower Upper

178 100

176 19.3 14.6 21.8

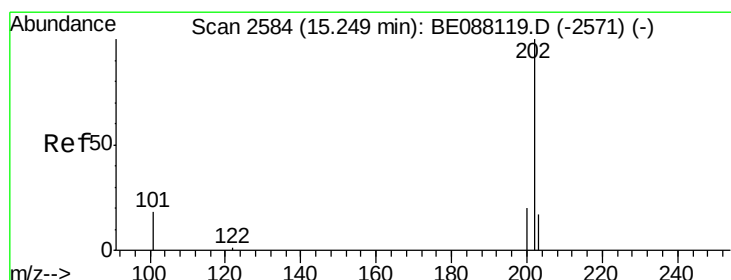
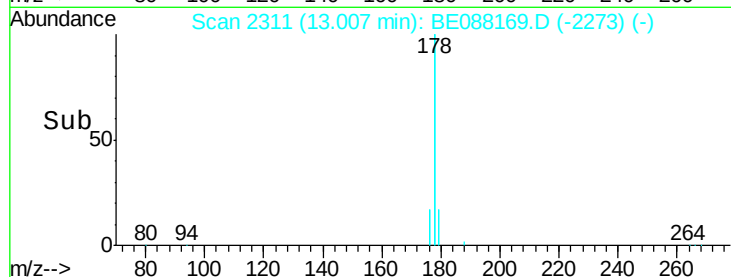
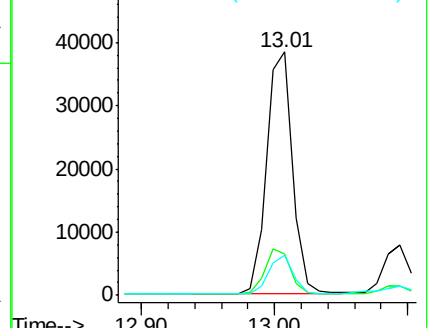
179 17.0 12.5 18.7



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: 1.18 ng

RT: 15.25 min Scan# 2585

Delta R.T. -0.00 min

Lab File: BE088169.D

Acq: 22 Oct 2014 7:28

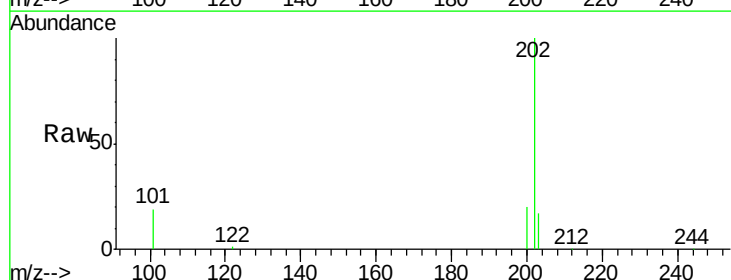
Tgt Ion:202 Resp: 18677

Ion Ratio Lower Upper

202 100

101 18.2 14.8 22.2

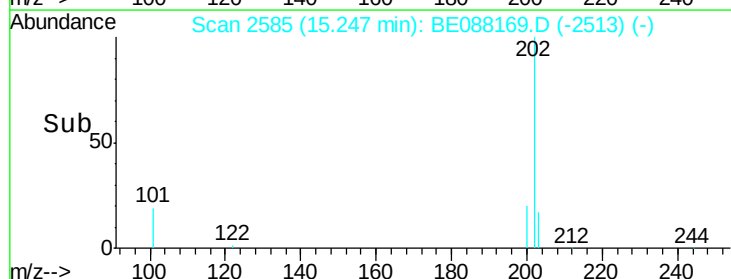
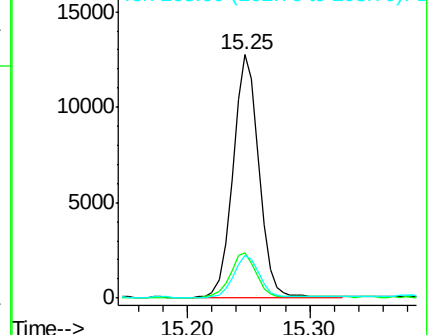
203 17.2 13.5 20.3

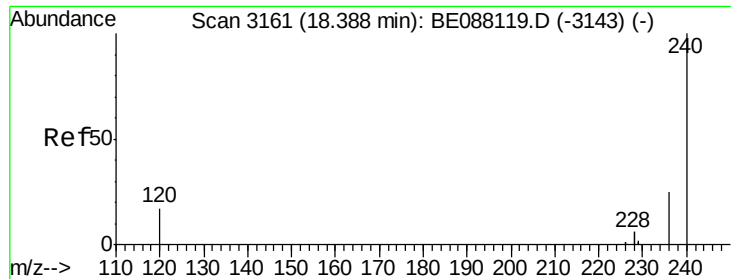


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E

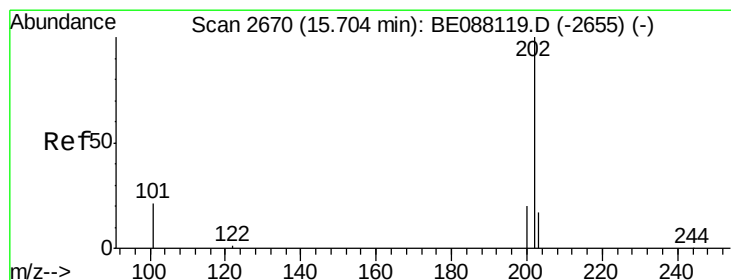
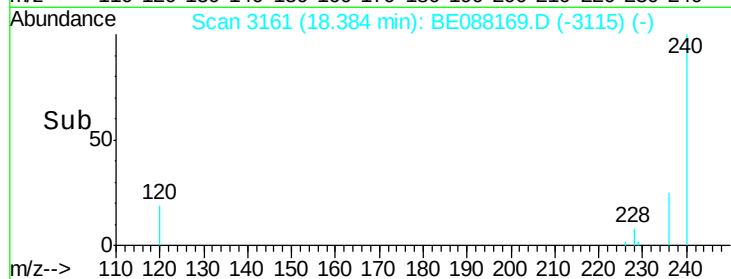
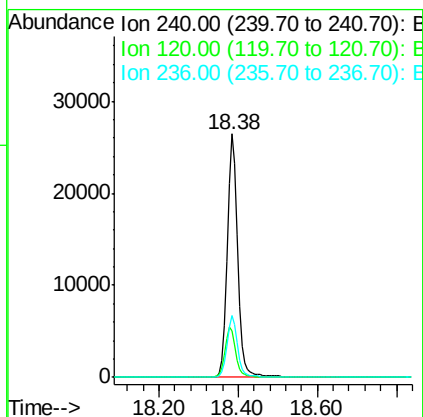
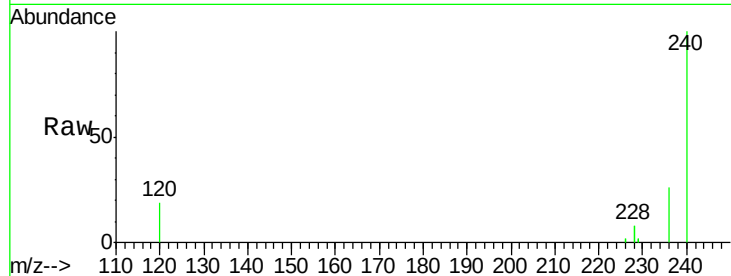




#16
Chrysene-d12
Concen: 5.00 ng
RT: 18.38 min Scan# 3161
Delta R.T. -0.00 min
Lab File: BE088169.D
Acq: 22 Oct 2014 7:28

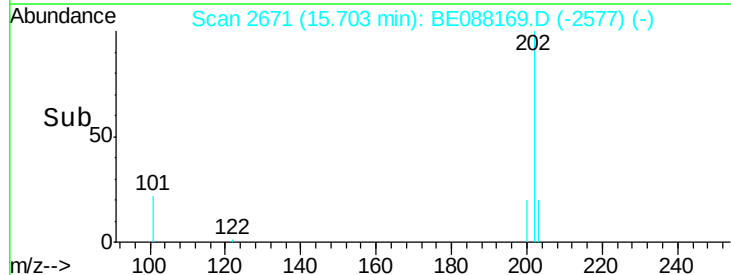
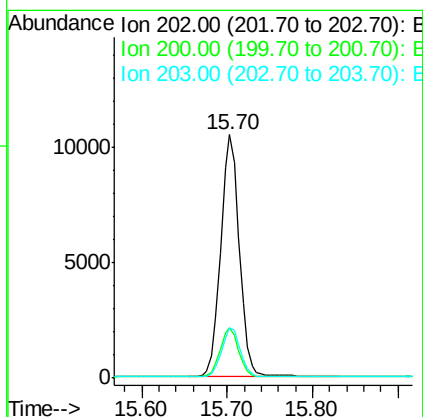
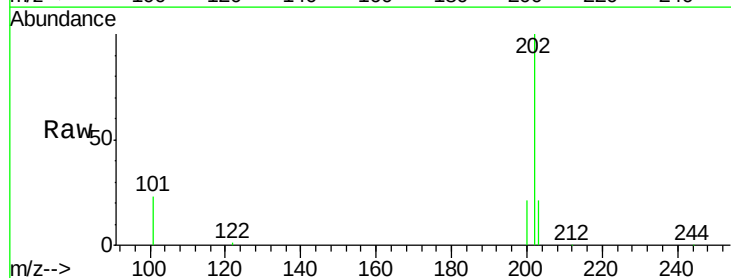
Instrument :
BNA_E
ClientSampleId :
YS19-SS27-1014

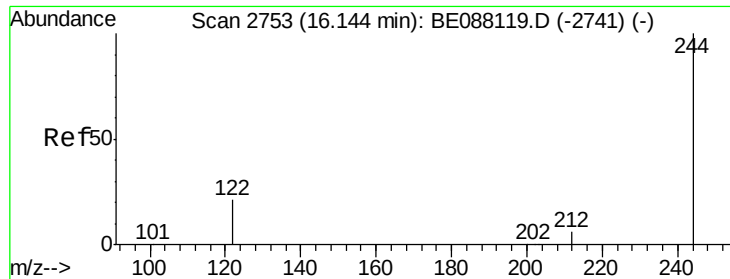
Tgt Ion:240 Resp: 47306
Ion Ratio Lower Upper
240 100
120 19.3 13.9 20.9
236 25.6 19.9 29.9



#17
Pyrene
Concen: 1.23 ng
RT: 15.70 min Scan# 2671
Delta R.T. -0.00 min
Lab File: BE088169.D
Acq: 22 Oct 2014 7:28

Tgt Ion:202 Resp: 15829
Ion Ratio Lower Upper
202 100
200 20.1 16.1 24.1
203 20.3 13.9 20.9





#18

Terphenyl-d14

Concen: 16.13 ng

RT: 16.15 min Scan# 2755

Delta R.T. 0.00 min

Lab File: BE088169.D

Acq: 22 Oct 2014 7:28

Instrument :

BNA_E

ClientSampleId :

YS19-SS27-1014

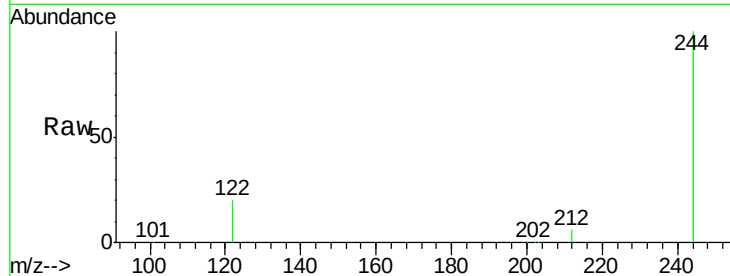
Tgt Ion:244 Resp: 122765

Ion Ratio Lower Upper

244 100

212 6.5 5.4 8.0

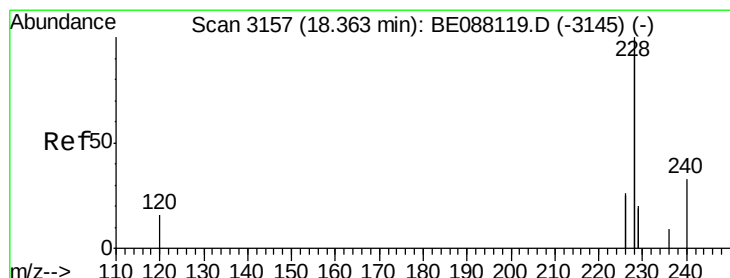
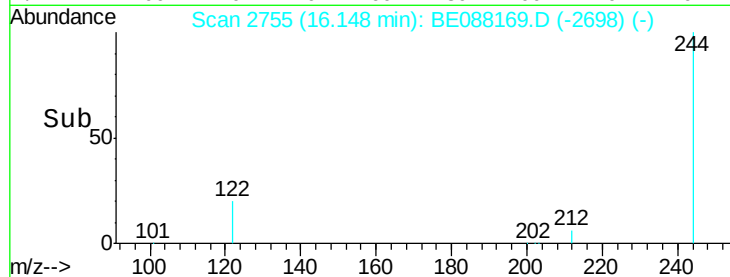
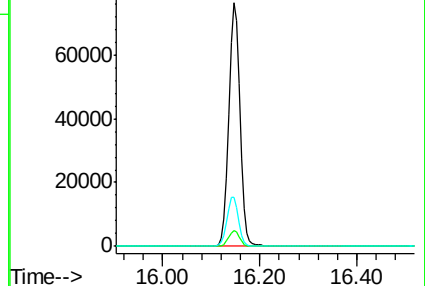
122 20.2 17.5 26.3



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: 0.64 ng

RT: 18.36 min Scan# 3158

Delta R.T. 0.00 min

Lab File: BE088169.D

Acq: 22 Oct 2014 7:28

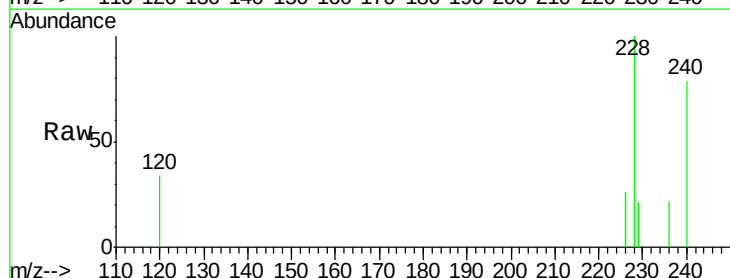
Tgt Ion:228 Resp: 27129

Ion Ratio Lower Upper

228 100

226 26.1 20.8 31.2

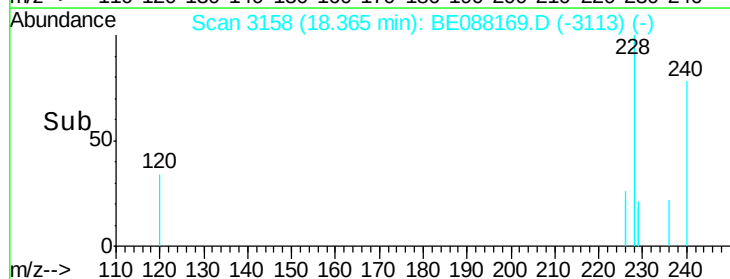
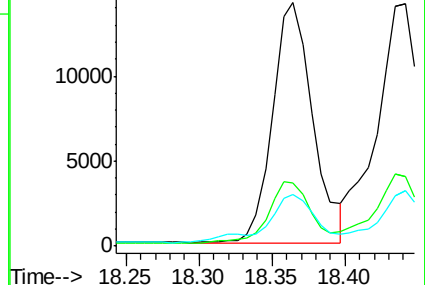
229 21.4 15.6 23.4

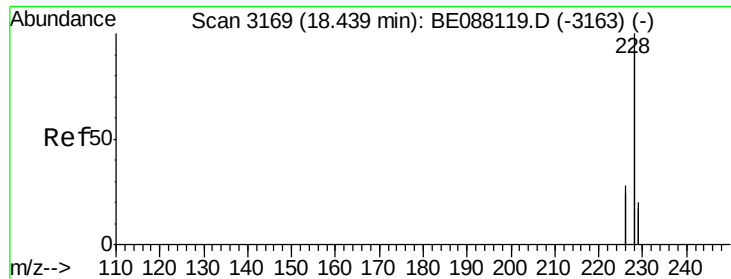


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#20

Chrysene

Concen: 0.75 ng

RT: 18.44 min Scan# 3170

Delta R.T. 0.00 min

Lab File: BE088169.D

Acq: 22 Oct 2014 7:28

Instrument :

BNA_E

ClientSampleId :

YS19-SS27-1014

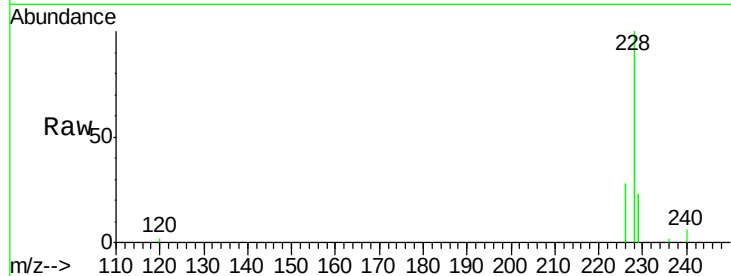
Tgt Ion:228 Resp: 30812

Ion Ratio Lower Upper

228 100

226 28.5 22.7 34.1

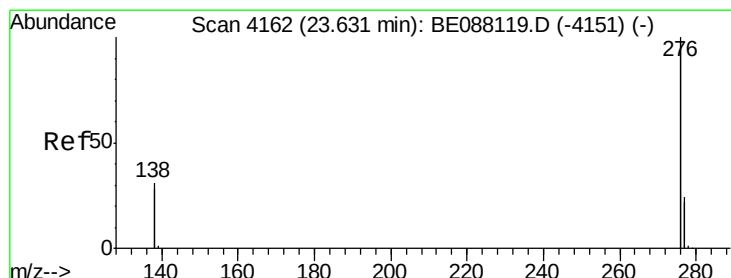
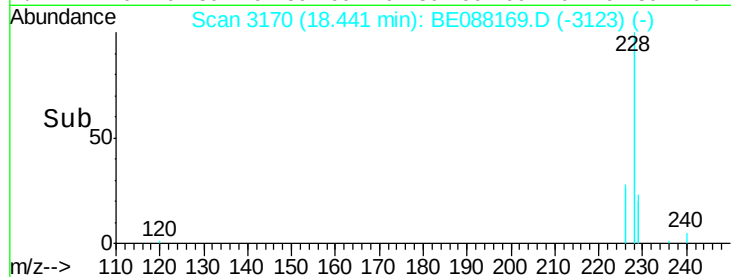
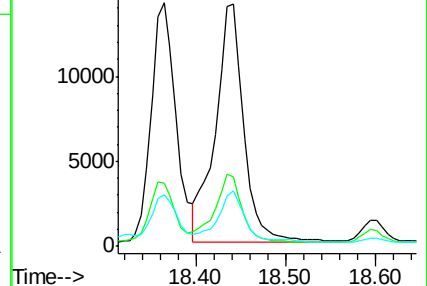
229 22.7 15.8 23.6



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: 0.34 ng

RT: 23.64 min Scan# 4164

Delta R.T. 0.01 min

Lab File: BE088169.D

Acq: 22 Oct 2014 7:28

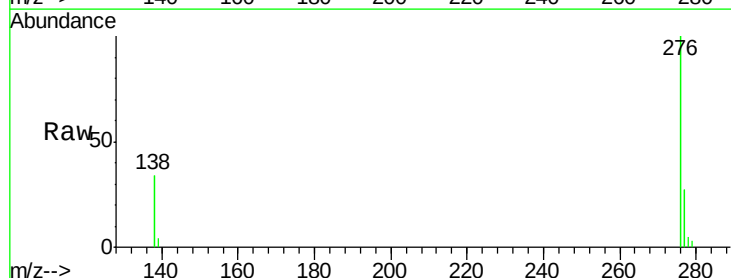
Tgt Ion:276 Resp: 15671

Ion Ratio Lower Upper

276 100

138 31.1 18.5 27.7#

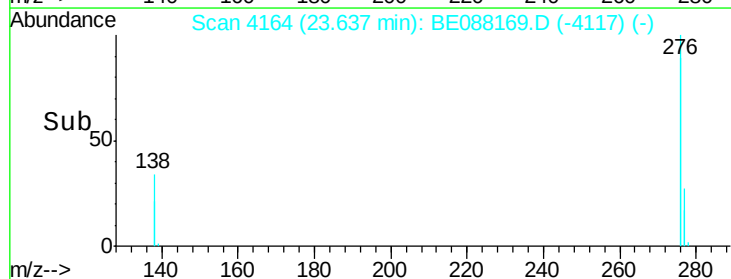
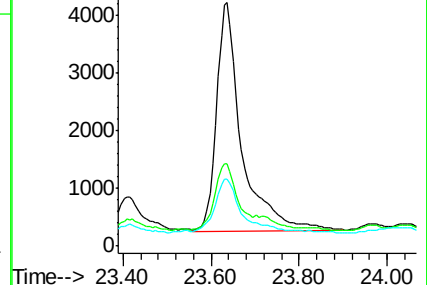
277 23.8 14.6 21.8#

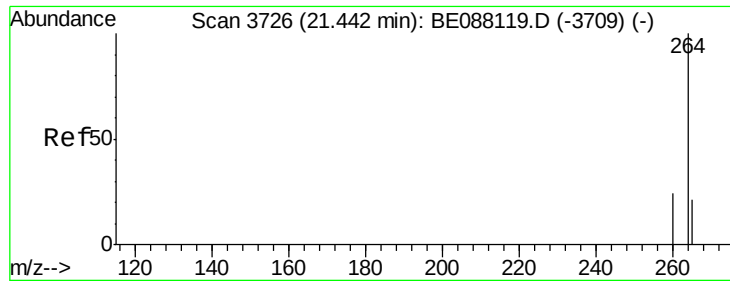


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

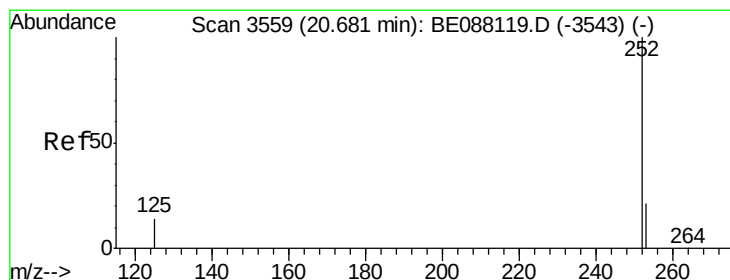
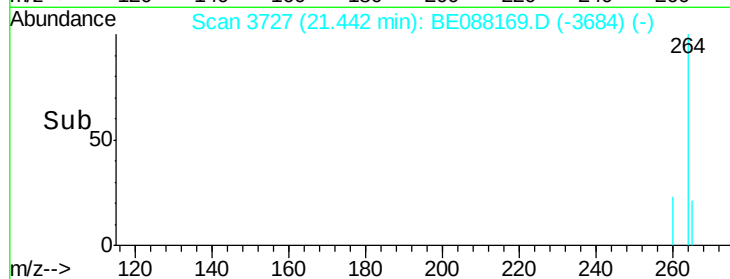
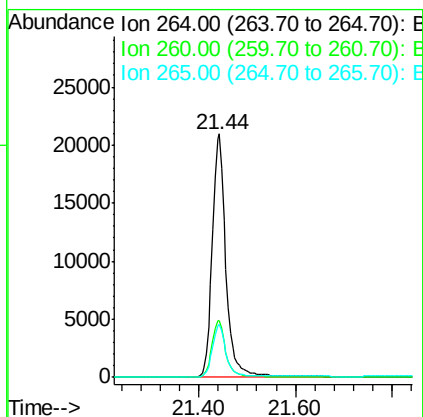
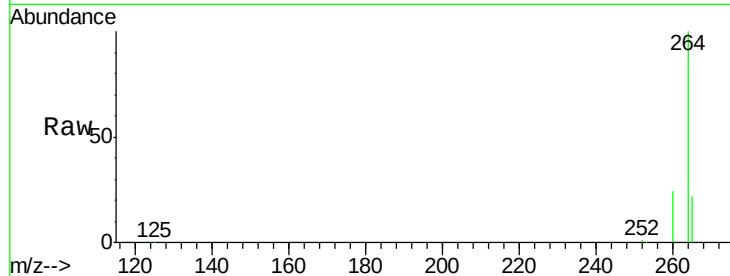




#22
Perylene-d12
 Concen: 5.00 ng
 RT: 21.44 min Scan# 3727
 Delta R.T. 0.00 min
 Lab File: BE088169.D
 Acq: 22 Oct 2014 7:28

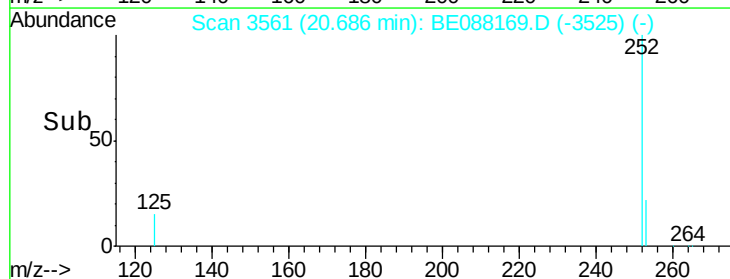
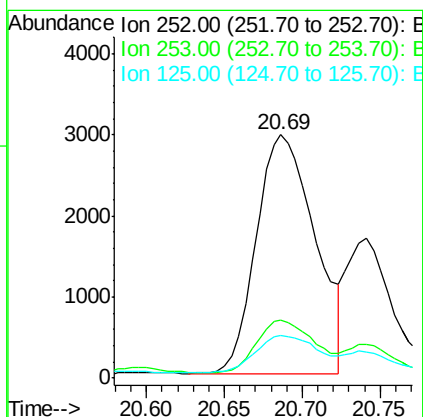
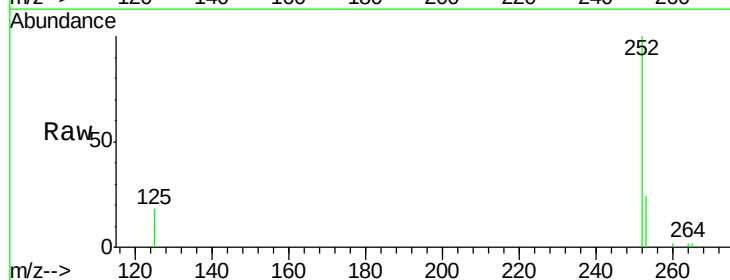
Instrument :
 BNA_E
 ClientSampleId :
 YS19-SS27-1014

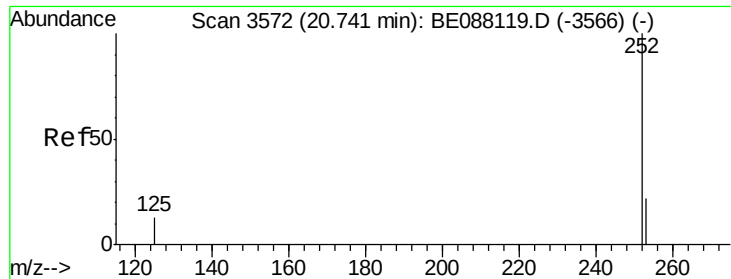
Tgt Ion:264 Resp: 40946
 Ion Ratio Lower Upper
 264 100
 260 23.5 19.0 28.4
 265 21.7 17.2 25.8



#23
Benzo(b)fluoranthene
 Concen: 0.79 ng
 RT: 20.69 min Scan# 3561
 Delta R.T. 0.01 min
 Lab File: BE088169.D
 Acq: 22 Oct 2014 7:28

Tgt Ion:252 Resp: 7695
 Ion Ratio Lower Upper
 252 100
 253 23.6 17.4 26.0
 125 17.5 11.8 17.8





#24

Benzo(k)fluoranthene

Concen: 0.35 ng

RT: 20.74 min Scan# 3573

Delta R.T. 0.00 min

Lab File: BE088169.D

Acq: 22 Oct 2014 7:28

Instrument :

BNA_E

ClientSampleId :

YS19-SS27-1014

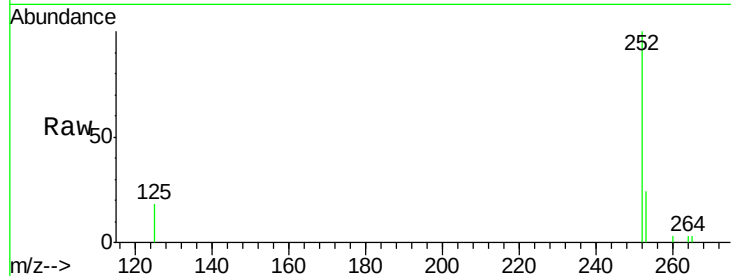
Tgt Ion:252 Resp: 3605

Ion Ratio Lower Upper

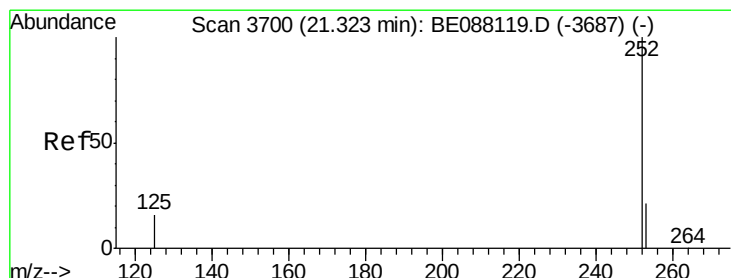
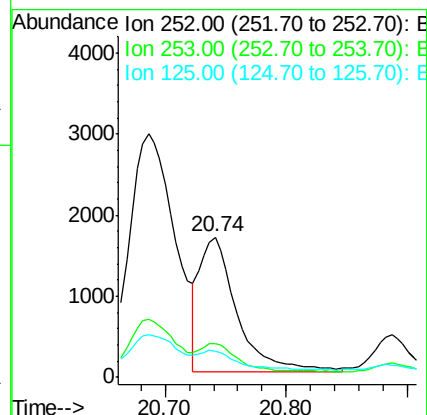
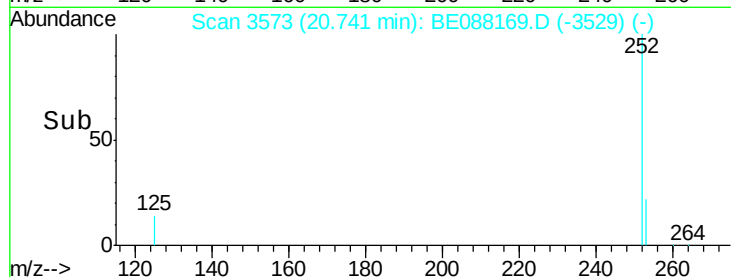
252 100

253 24.3 17.6 26.4

125 18.3 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: 0.57 ng

RT: 21.32 min Scan# 3701

Delta R.T. 0.00 min

Lab File: BE088169.D

Acq: 22 Oct 2014 7:28

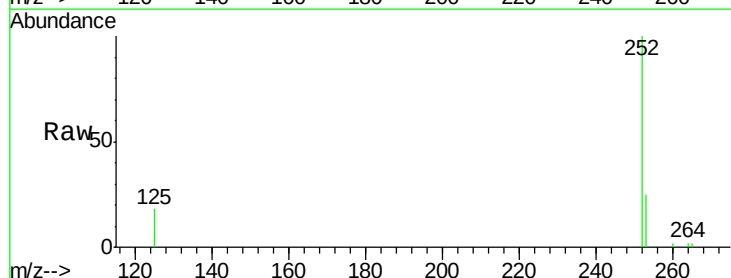
Tgt Ion:252 Resp: 5075

Ion Ratio Lower Upper

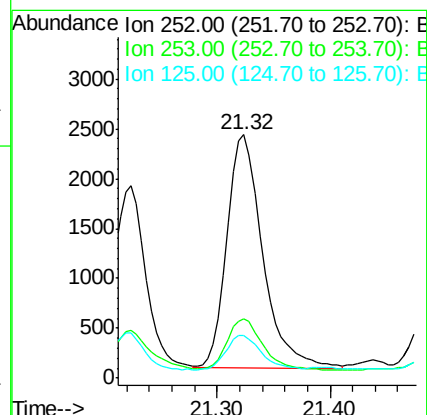
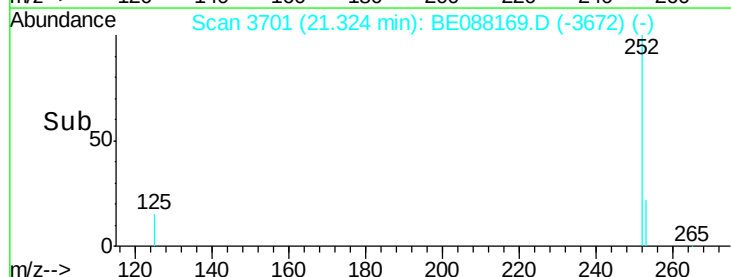
252 100

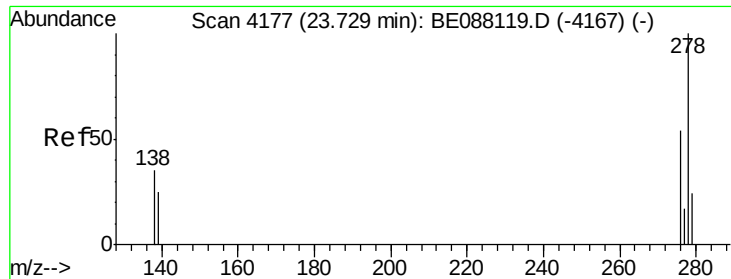
253 24.6 17.5 26.3

125 17.7 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: 0.08 ng

RT: 23.72 min Scan# 4177

Delta R.T. -0.01 min

Lab File: BE088169.D

Acq: 22 Oct 2014 7:28

Instrument :

BNA_E

ClientSampleId :

YS19-SS27-1014

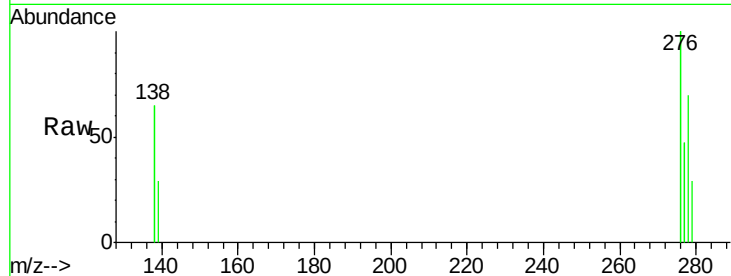
Tgt Ion: 278 Resp: 744

Ion Ratio Lower Upper

278 100

139 41.7 20.9 31.3#

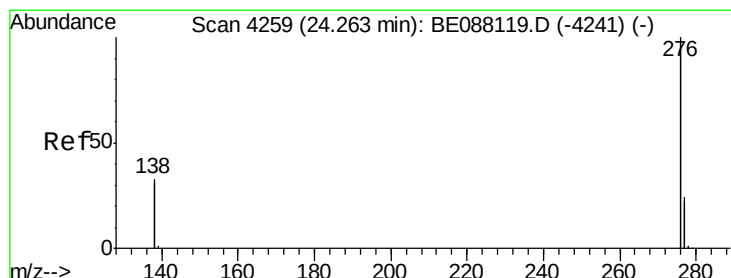
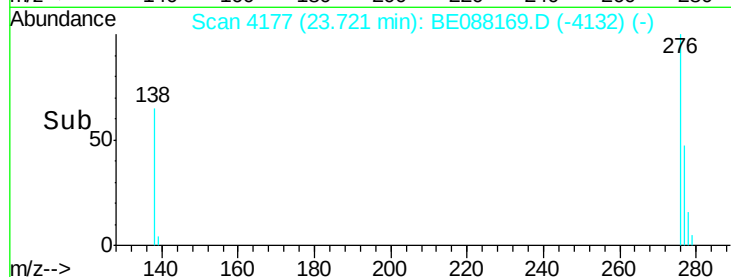
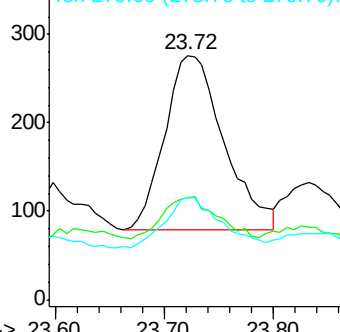
279 41.7 19.8 29.8#



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: 0.39 ng

RT: 24.26 min Scan# 4260

Delta R.T. -0.00 min

Lab File: BE088169.D

Acq: 22 Oct 2014 7:28

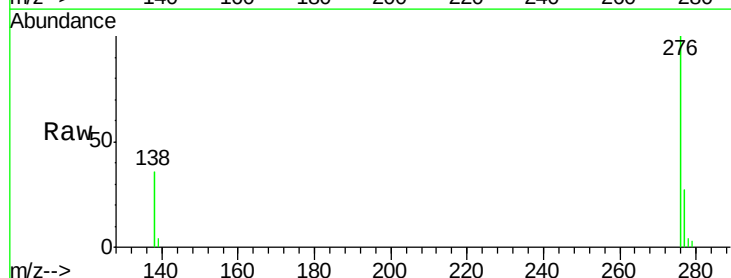
Tgt Ion: 276 Resp: 15089

Ion Ratio Lower Upper

276 100

277 27.1 19.2 28.8

138 35.6 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

