

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE102414\
 Data File : BE088211.D
 Acq On : 24 Oct 2014 14:18
 Operator : TP/JJ
 Sample : SSTDICC0.8
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 SSTDICC0.8

Quant Time: Oct 27 12:42:14 2014
 Quant Method : Z:\HPCHEM1\BNA_E\METHODS\SIM-PAH-BE102414.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Oct 27 12:38:23 2014
 Response via : Initial Calibration

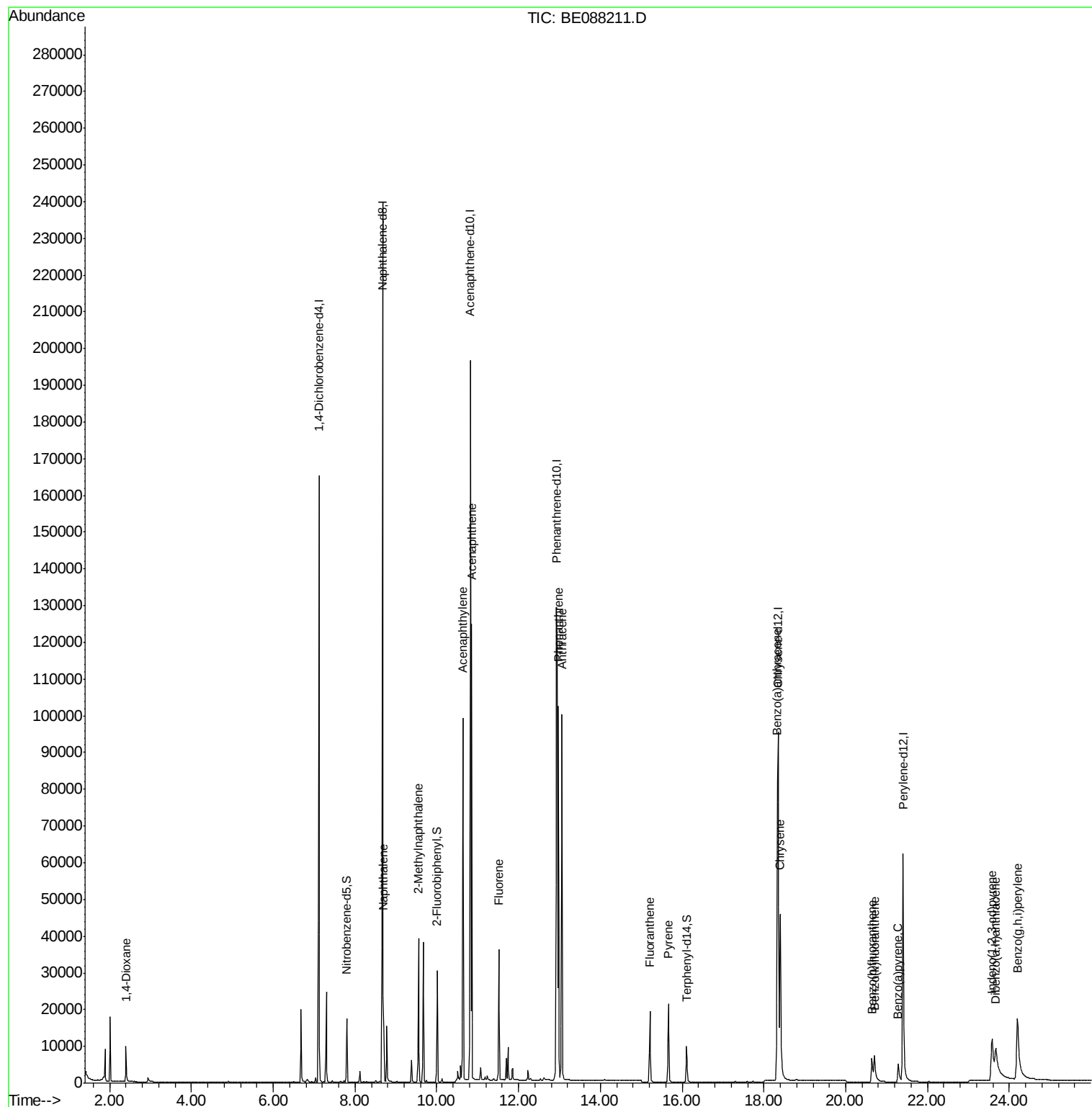
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.11	152	53910	5.00	ng	0.00
3) Naphthalene-d8	8.68	136	208484	5.00	ng	0.00
7) Acenaphthene-d10	10.82	164	96529	5.00	ng	0.00
12) Phenanthrene-d10	12.94	188	176868	5.00	ng	0.00
16) Chrysene-d12	18.34	240	100858	5.00	ng	0.00
22) Perylene-d12	21.40	264	87371	5.00	ng	0.00
System Monitoring Compounds						
4) Nitrobenzene-d5	7.80	82	8960	0.70	ng	0.00
8) 2-Fluorobiphenyl	10.01	172	19879	0.74	ng	0.00
18) Terphenyl-d14	16.11	244	12405	0.75	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.40	88	5524	0.73	ng	99
5) Naphthalene	8.70	128	31323	0.74	ng	100
6) 2-Methylnaphthalene	9.55	142	19349	0.76	ng	100
9) Acenaphthylene	10.64	152	106893	0.74	ng	100
10) Acenaphthene	10.86	154	16904	0.74	ng	99
11) Fluorene	11.52	166	17865	0.77	ng	100
13) Phenanthrene	12.97	178	125584	0.86	ng	95
14) Anthracene	13.06	178	94740	0.75	ng	100
15) Fluoranthene	15.21	202	19360	0.75	ng	99
17) Pyrene	15.66	202	21072	0.76	ng	100
19) Benzo(a)anthracene	18.32	228	55551	0.70	ng	99
20) Chrysene	18.40	228	65495	0.73	ng	98
21) Indeno(1,2,3-cd)pyrene	23.58	276	28629	0.36	ng	# 74
23) Benzo(b)fluoranthene	20.64	252	10259	0.72	ng	98
24) Benzo(k)fluoranthene	20.70	252	16927	0.75	ng	99
25) Benzo(a)pyrene	21.28	252	10067	0.71	ng	99
26) Dibenzo(a,h)anthracene	23.67	278	9172	0.69	ng	99
27) Benzo(g,h,i)perylene	24.20	276	48991	0.70	ng	99

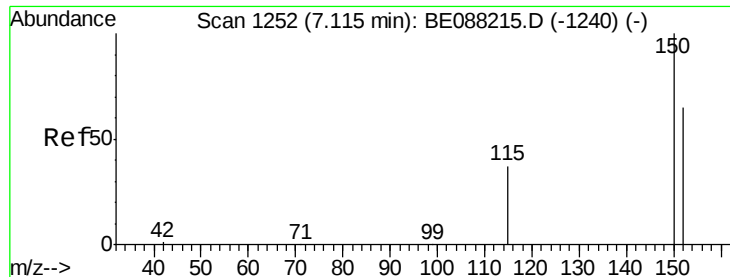
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\HPCHEM1\BNA_E\METHODS\SIM-PAH-BE102414.M
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QLast Update : Mon Oct 27 12:38:23 2014
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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 7.11 min Scan# 1253

Delta R.T. -0.00 min

Lab File: BE088211.D

Acq: 24 Oct 2014 14:18

Instrument :

BNA_E

ClientSampleId :

SSTDIC0.8

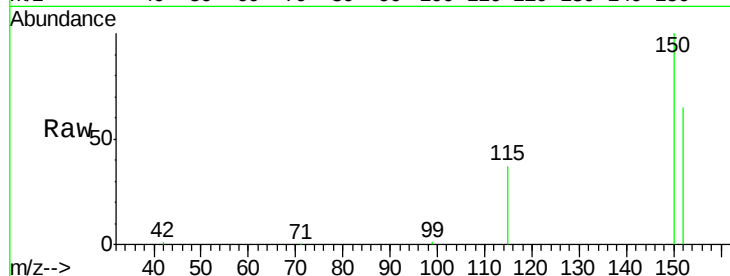
Tgt Ion:152 Resp: 53910

Ion Ratio Lower Upper

152 100

150 154.8 123.2 184.8

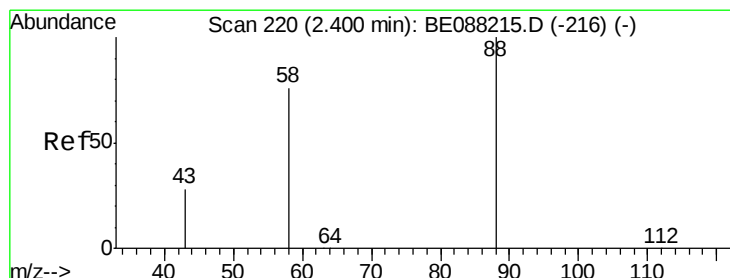
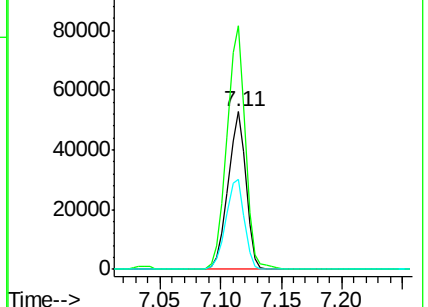
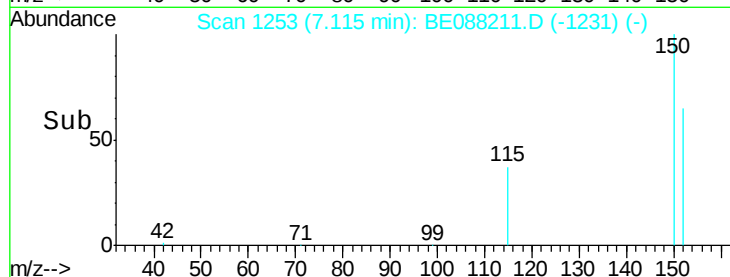
115 57.1 45.3 67.9



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: 0.73 ng

RT: 2.40 min Scan# 220

Delta R.T. -0.00 min

Lab File: BE088211.D

Acq: 24 Oct 2014 14:18

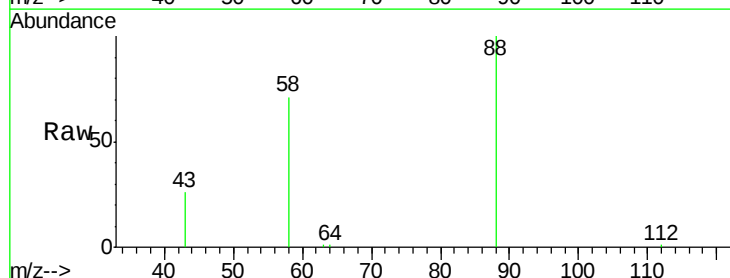
Tgt Ion: 88 Resp: 5524

Ion Ratio Lower Upper

88 100

58 74.5 59.0 88.4

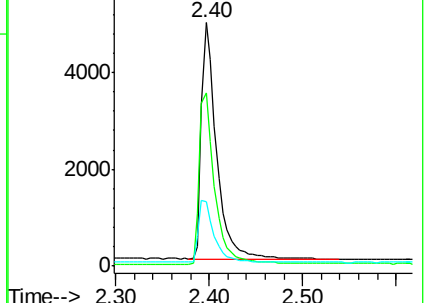
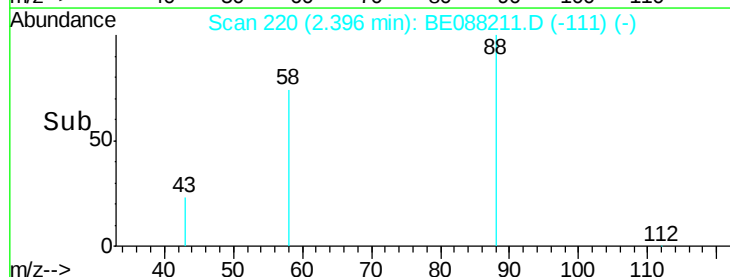
43 27.1 21.9 32.9

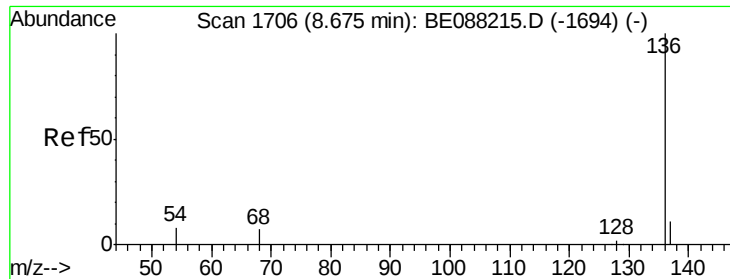


Abundance Ion 88.00 (87.70 to 88.70): BE0

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: 8.68 min Scan# 1708

Delta R.T. 0.00 min

Lab File: BE088211.D

Acq: 24 Oct 2014 14:18

Instrument :

BNA_E

ClientSampleId :

SSTDIC0.8

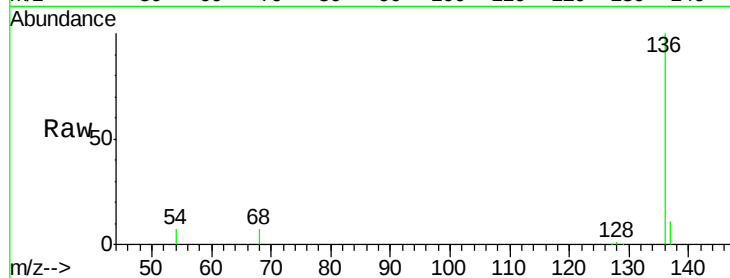
Tgt Ion:136 Resp: 208484

Ion Ratio Lower Upper

136 100

137 11.0 8.7 13.1

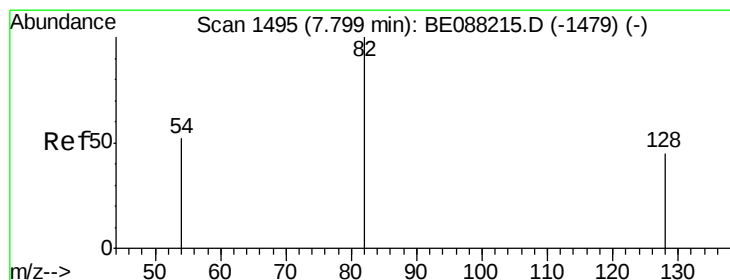
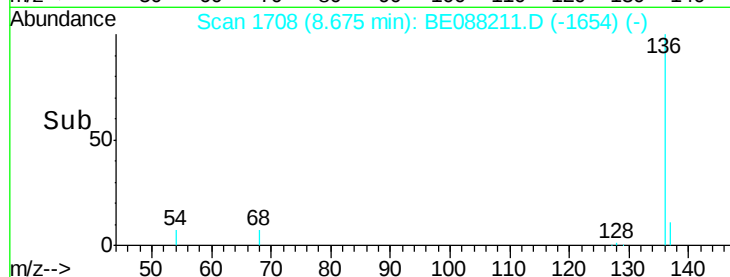
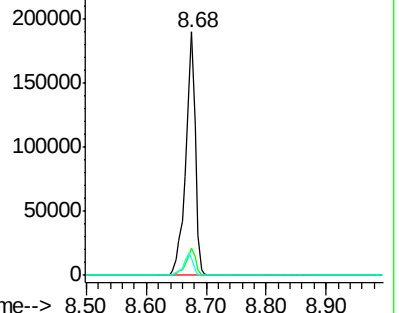
54 7.0 6.1 9.1



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: 0.70 ng

RT: 7.80 min Scan# 1497

Delta R.T. 0.00 min

Lab File: BE088211.D

Acq: 24 Oct 2014 14:18

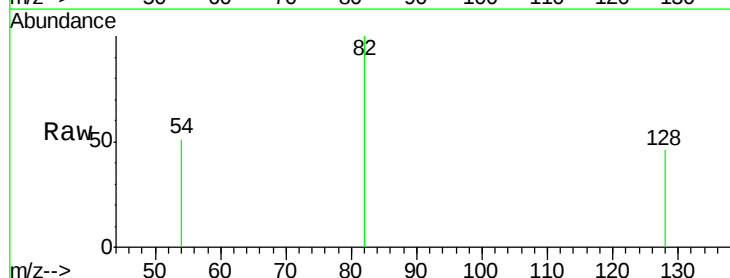
Tgt Ion: 82 Resp: 8960

Ion Ratio Lower Upper

82 100

128 45.7 36.2 54.2

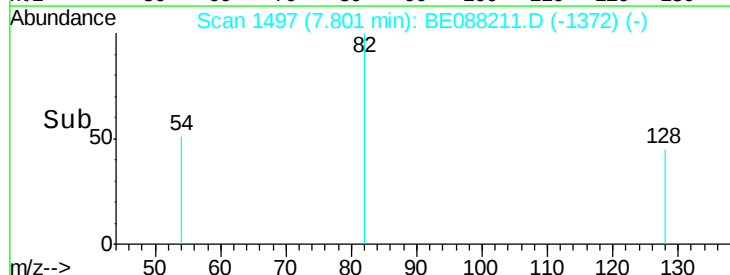
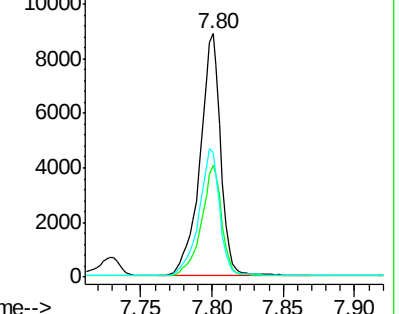
54 51.3 41.8 62.8

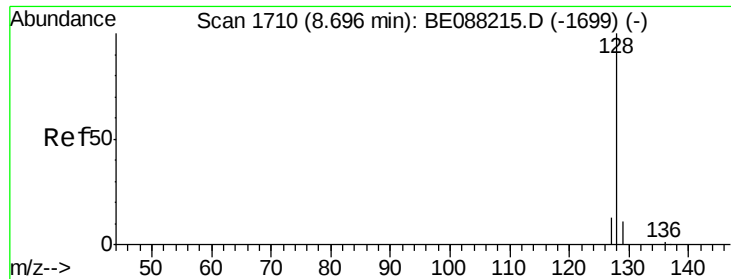


Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BE0





#5

Naphthalene

Concen: 0.74 ng

RT: 8.70 min Scan# 1712

Delta R.T. 0.00 min

Lab File: BE088211.D

Acq: 24 Oct 2014 14:18

Instrument :

BNA_E

ClientSampleId :

SSTDIC0.8

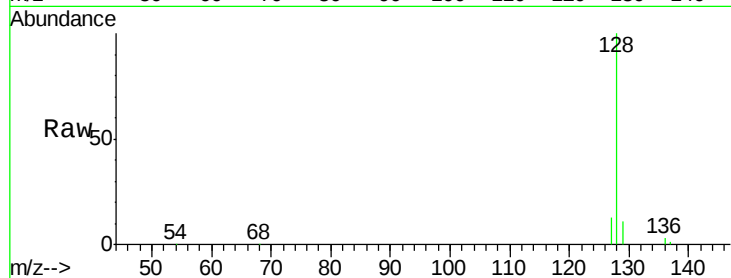
Tgt Ion:128 Resp: 31323

Ion Ratio Lower Upper

128 100

129 10.8 8.6 12.8

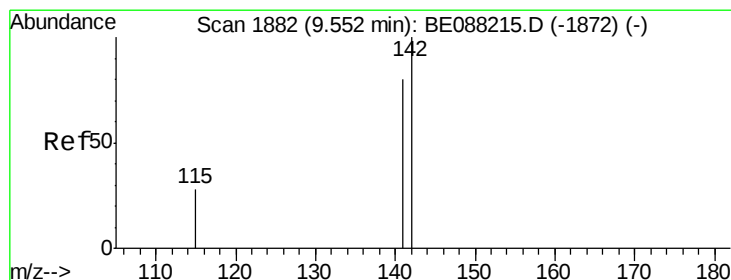
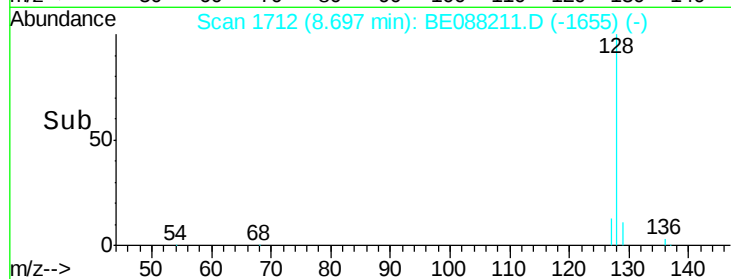
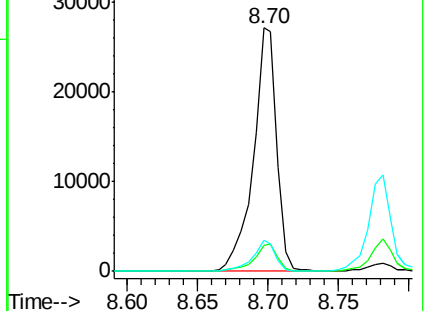
127 12.8 10.4 15.6



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: 0.76 ng

RT: 9.55 min Scan# 1884

Delta R.T. 0.00 min

Lab File: BE088211.D

Acq: 24 Oct 2014 14:18

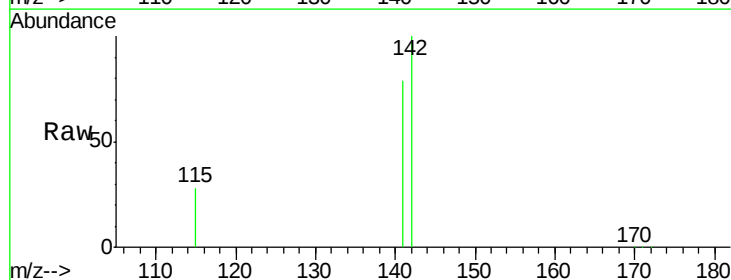
Tgt Ion:142 Resp: 19349

Ion Ratio Lower Upper

142 100

141 79.2 63.7 95.5

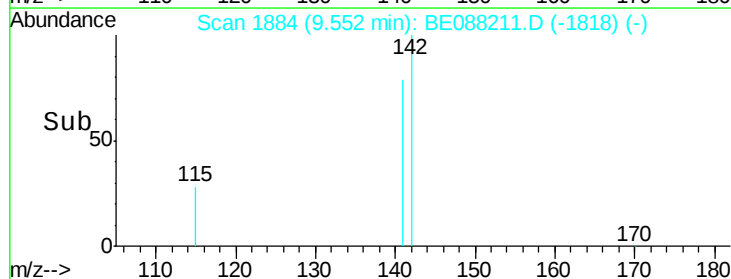
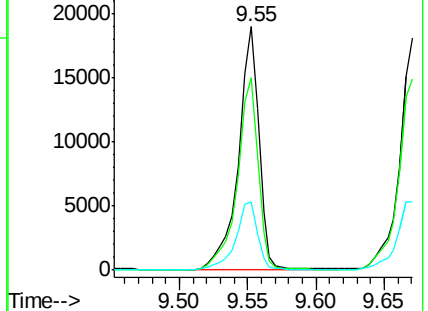
115 28.0 22.6 34.0

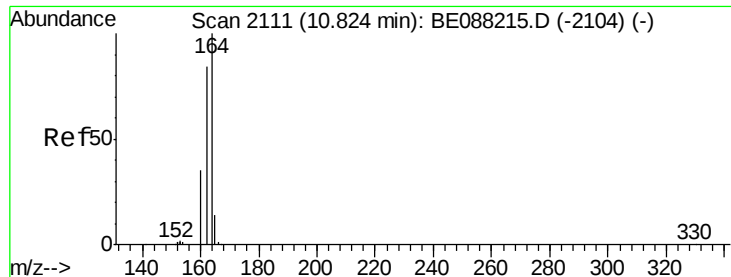


Abundance Ion 142.00 (141.70 to 142.70): E

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: 10.82 min Scan# 2113

Delta R.T. -0.00 min

Lab File: BE088211.D

Acq: 24 Oct 2014 14:18

Instrument :

BNA_E

ClientSampleId :

SSTDIC0.8

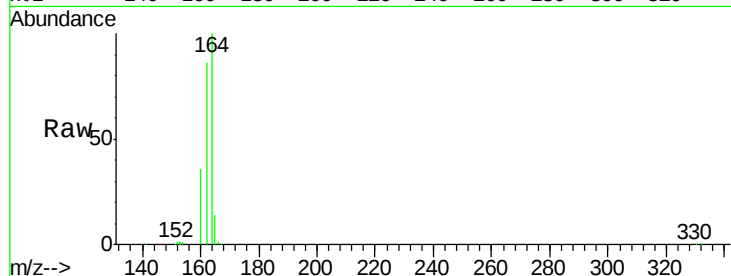
Tgt Ion:164 Resp: 96529

Ion Ratio Lower Upper

164 100

162 85.9 67.4 101.0

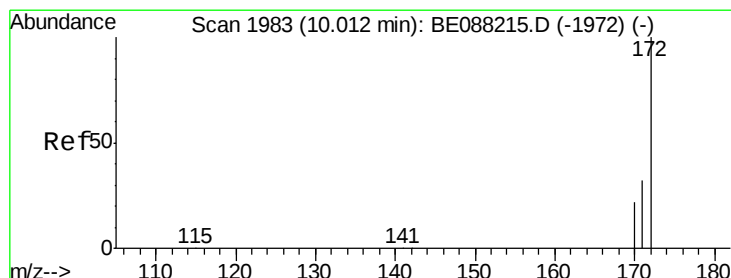
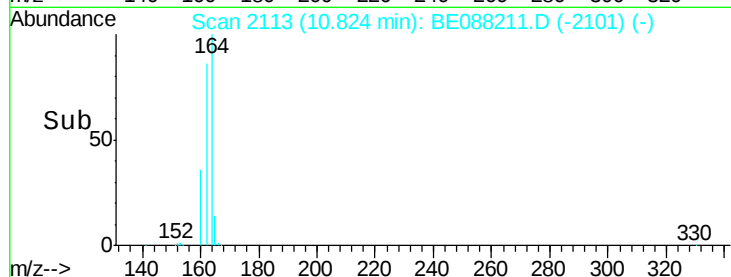
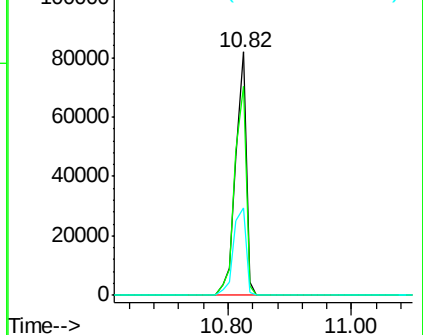
160 35.9 27.7 41.5



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: 0.74 ng

RT: 10.01 min Scan# 1985

Delta R.T. 0.00 min

Lab File: BE088211.D

Acq: 24 Oct 2014 14:18

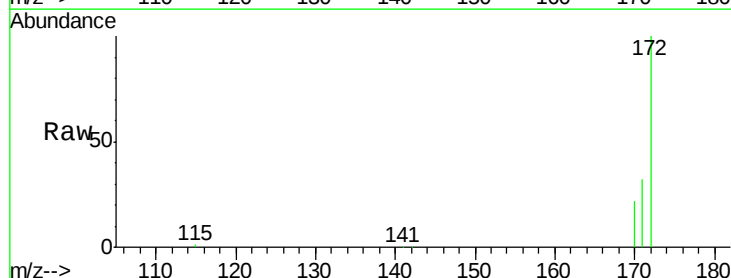
Tgt Ion:172 Resp: 19879

Ion Ratio Lower Upper

172 100

171 32.0 25.8 38.6

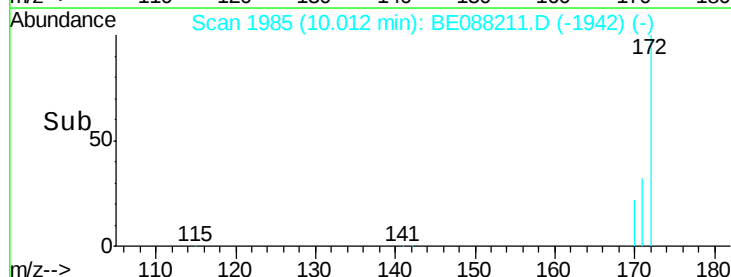
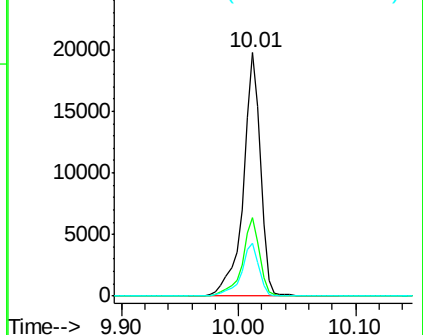
170 21.8 17.4 26.0

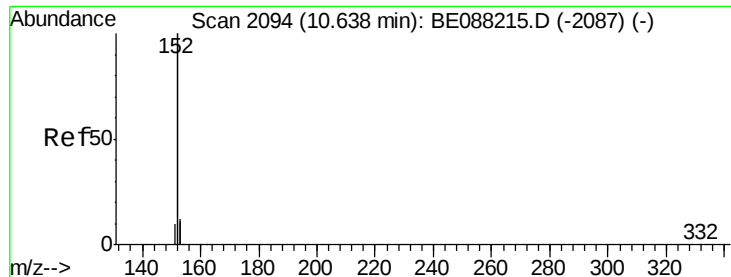


Abundance Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E





#9

Acenaphthylene

Concen: 0.74 ng

RT: 10.64 min Scan# 2096

Delta R.T. -0.00 min

Lab File: BE088211.D

Acq: 24 Oct 2014 14:18

Instrument :

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SSTDIC0.8

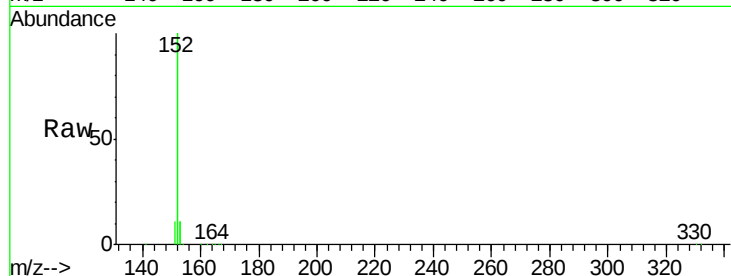
Tgt Ion:152 Resp: 106893

Ion Ratio Lower Upper

152 100

151 4.6 3.7 5.5

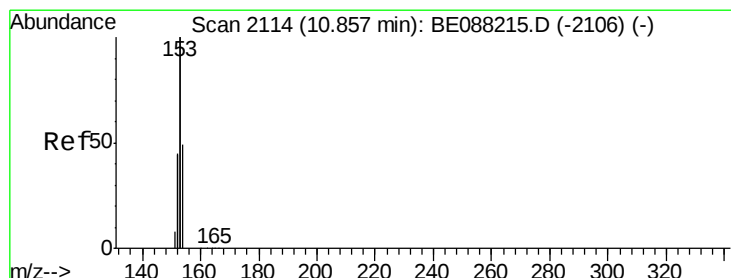
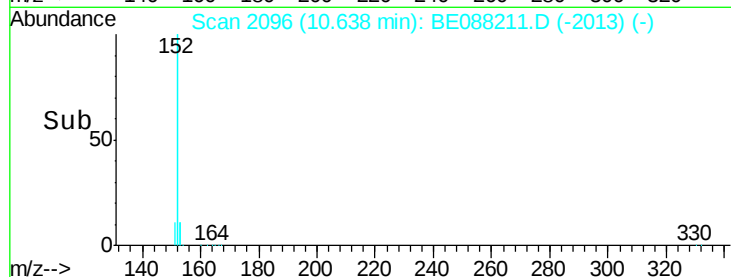
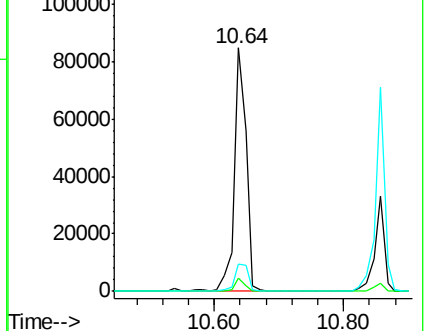
153 12.9 10.3 15.5



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E



#10

Acenaphthene

Concen: 0.74 ng

RT: 10.86 min Scan# 2116

Delta R.T. -0.00 min

Lab File: BE088211.D

Acq: 24 Oct 2014 14:18

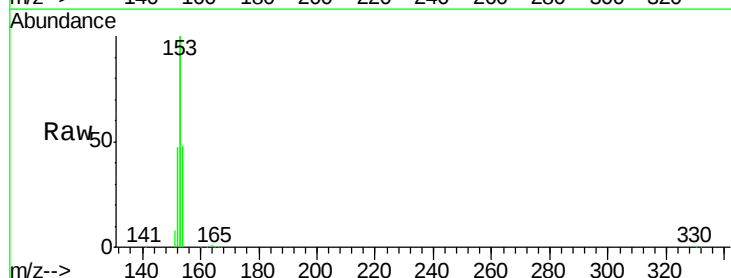
Tgt Ion:154 Resp: 16904

Ion Ratio Lower Upper

154 100

153 409.4 326.0 489.0

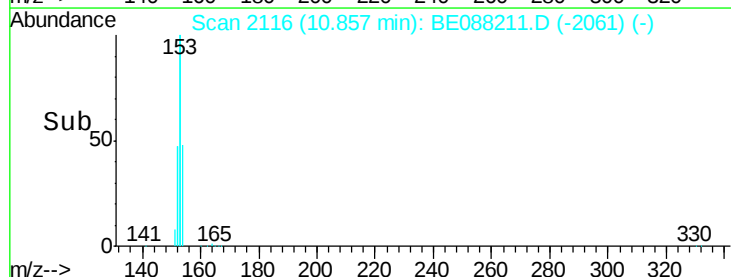
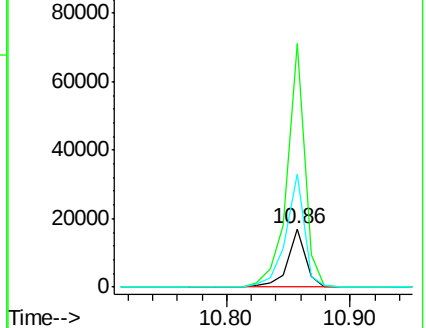
152 196.6 155.6 233.4

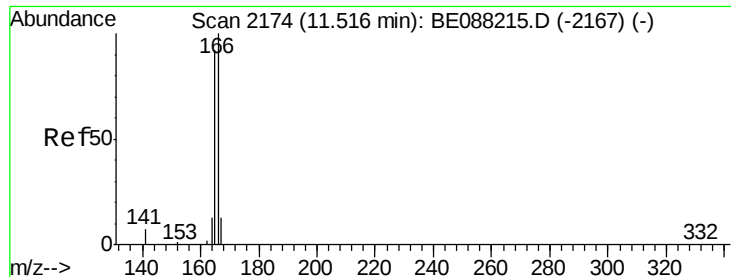


Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E





#11

Fluorene

Concen: 0.77 ng

RT: 11.52 min Scan# 2176

Delta R.T. -0.00 min

Lab File: BE088211.D

Acq: 24 Oct 2014 14:18

Instrument :

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ClientSampleId :

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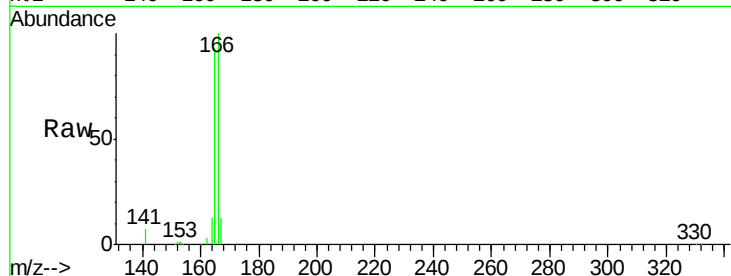
Tgt Ion:166 Resp: 17865

Ion Ratio Lower Upper

166 100

165 89.8 71.8 107.6

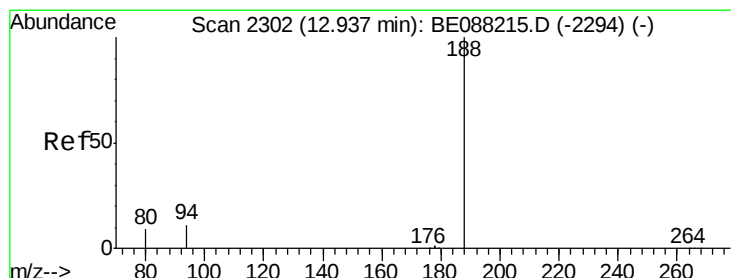
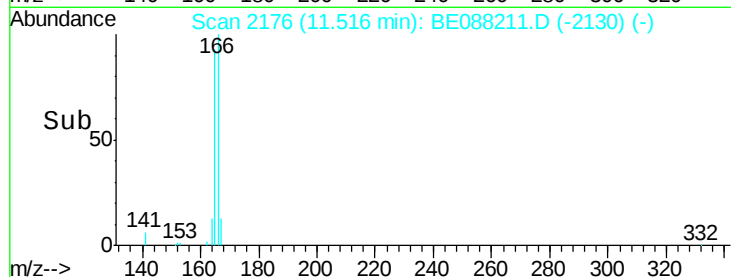
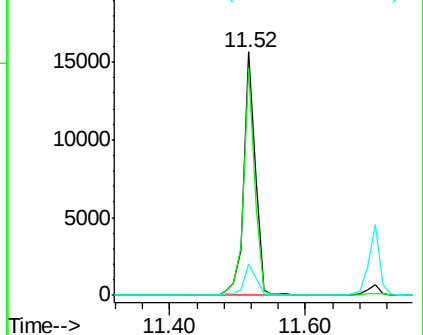
167 13.4 10.7 16.1



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: 12.94 min Scan# 2304

Delta R.T. 0.00 min

Lab File: BE088211.D

Acq: 24 Oct 2014 14:18

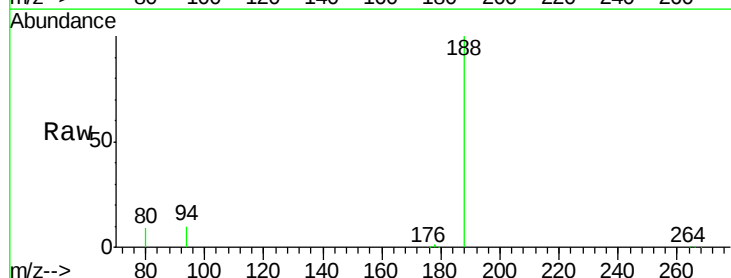
Tgt Ion:188 Resp: 176868

Ion Ratio Lower Upper

188 100

94 9.8 8.5 12.7

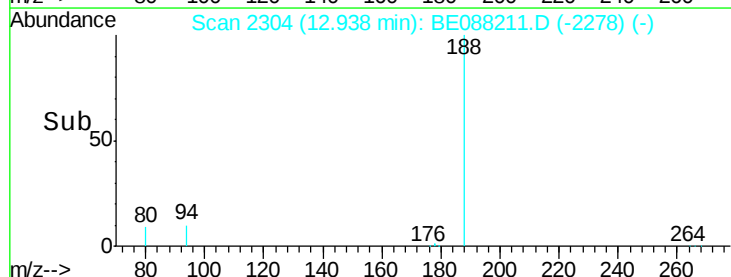
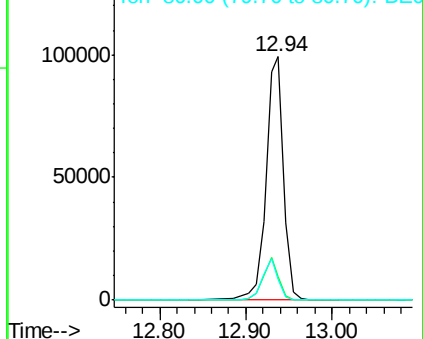
80 8.6 7.4 11.0

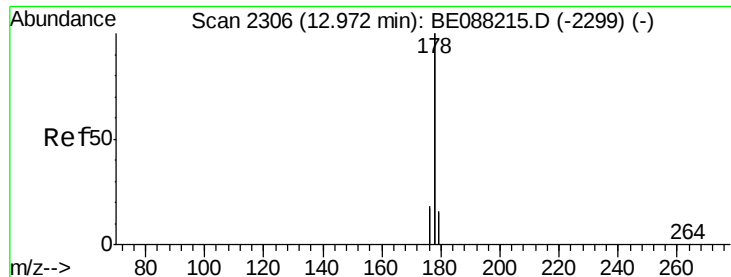


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BE0

Ion 80.00 (79.70 to 80.70): BE0





#13

Phenanthrene

Concen: 0.86 ng

RT: 12.97 min Scan# 2308

Delta R.T. 0.00 min

Lab File: BE088211.D

Acq: 24 Oct 2014 14:18

Instrument :

BNA_E

ClientSampleId :

SSTDIC0.8

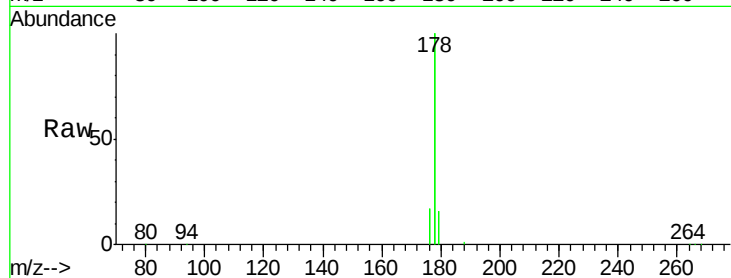
Tgt Ion:178 Resp: 125584

Ion Ratio Lower Upper

178 100

176 19.6 14.0 21.0

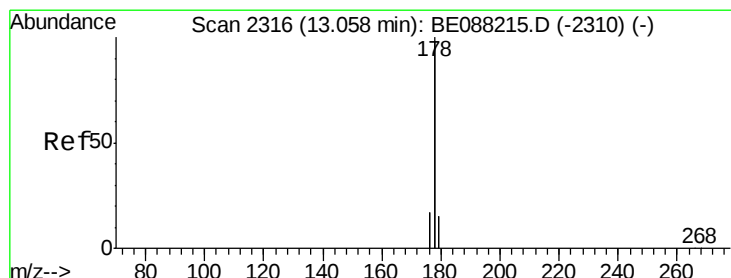
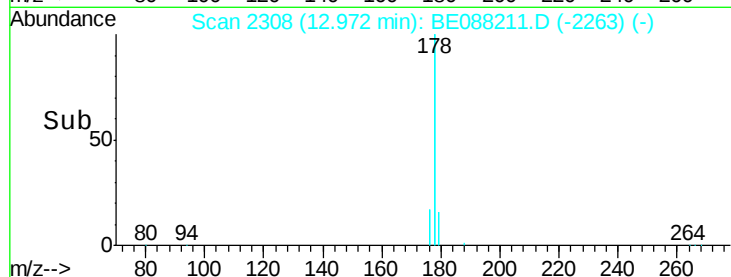
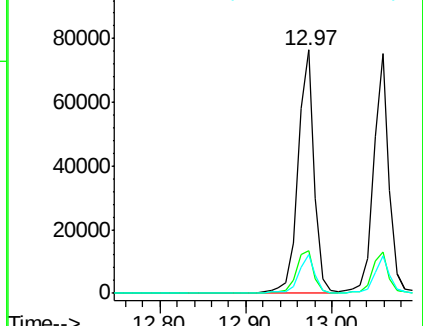
179 16.7 11.8 17.6



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: 0.75 ng

RT: 13.06 min Scan# 2318

Delta R.T. 0.00 min

Lab File: BE088211.D

Acq: 24 Oct 2014 14:18

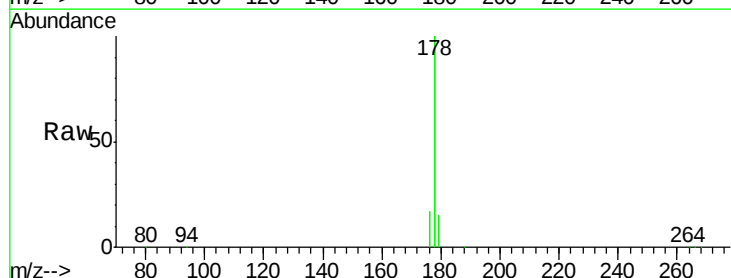
Tgt Ion:178 Resp: 94740

Ion Ratio Lower Upper

178 100

176 18.3 14.7 22.1

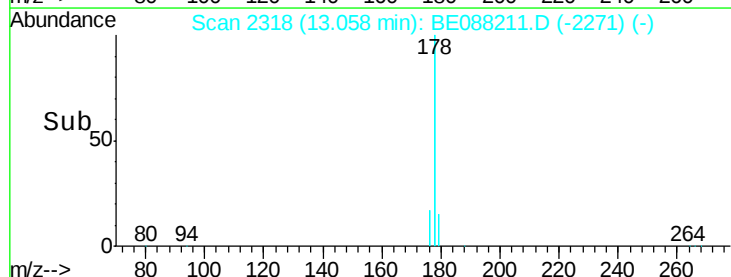
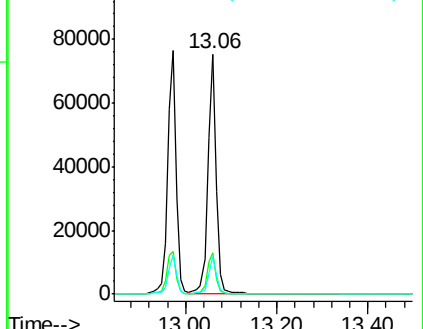
179 15.5 12.3 18.5

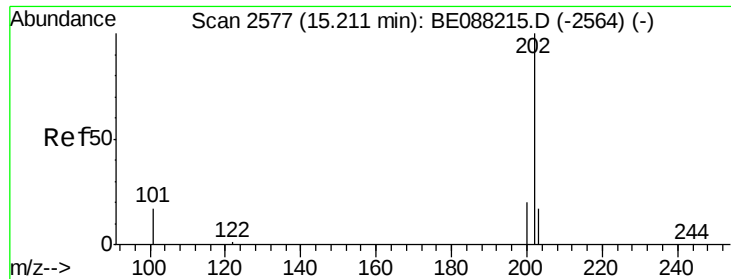


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#15

Fluoranthene

Concen: 0.75 ng

RT: 15.21 min Scan# 2579

Delta R.T. 0.00 min

Lab File: BE088211.D

Acq: 24 Oct 2014 14:18

Instrument :

BNA_E

ClientSampleId :

SSTDIC0.8

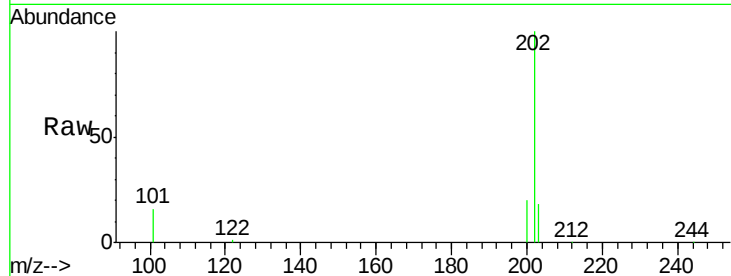
Tgt Ion:202 Resp: 19360

Ion Ratio Lower Upper

202 100

101 17.8 14.4 21.6

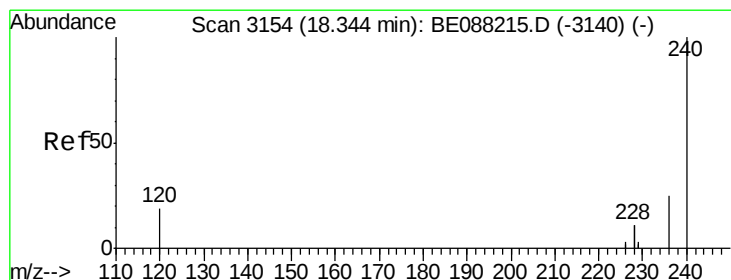
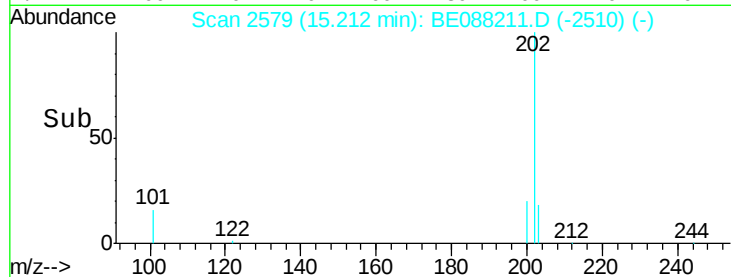
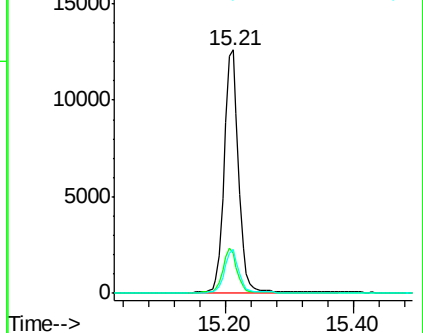
203 17.0 13.4 20.2



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: 18.34 min Scan# 3156

Delta R.T. -0.00 min

Lab File: BE088211.D

Acq: 24 Oct 2014 14:18

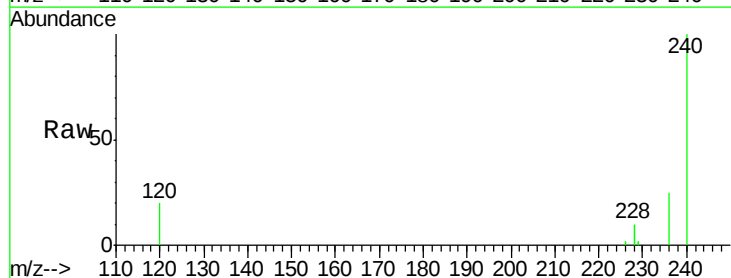
Tgt Ion:240 Resp: 100858

Ion Ratio Lower Upper

240 100

120 20.3 15.1 22.7

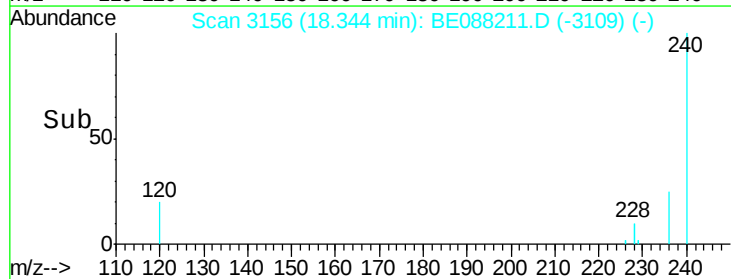
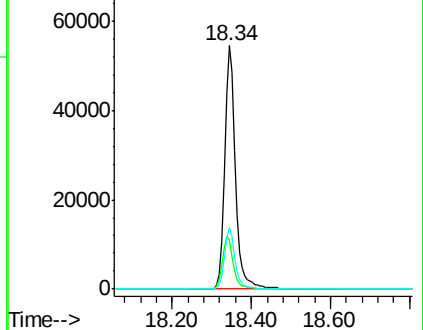
236 25.4 20.1 30.1

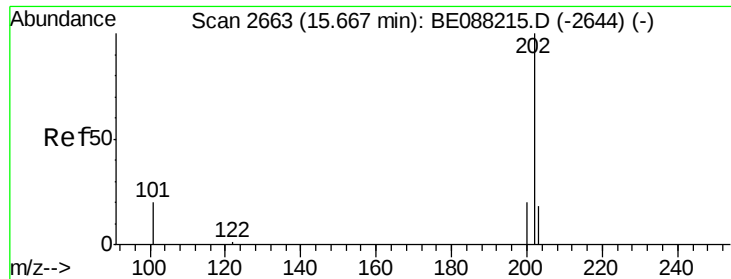


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#17

Pyrene

Concen: 0.76 ng

RT: 15.66 min Scan# 2664

Delta R.T. -0.00 min

Lab File: BE088211.D

Acq: 24 Oct 2014 14:18

Instrument :

BNA_E

ClientSampleId :

SSTDIC0.8

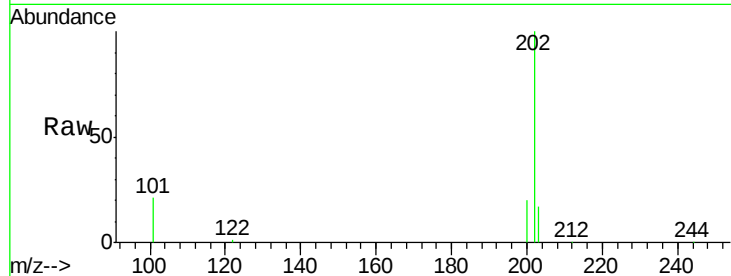
Tgt Ion: 202 Resp: 21072

Ion Ratio Lower Upper

202 100

200 20.1 16.2 24.2

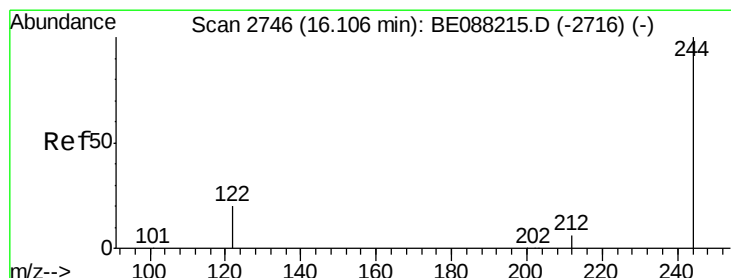
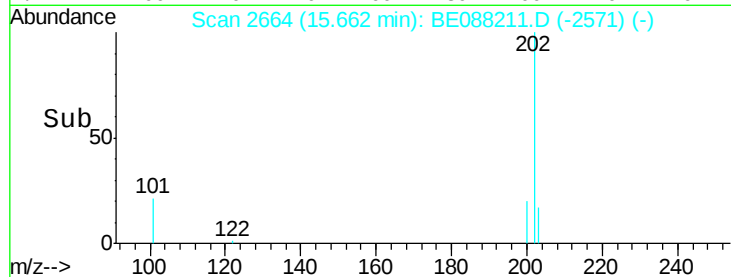
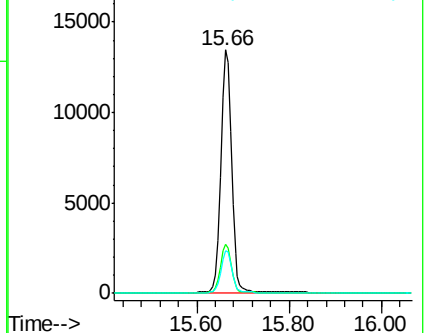
203 17.4 13.8 20.8



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: 0.75 ng

RT: 16.11 min Scan# 2748

Delta R.T. 0.00 min

Lab File: BE088211.D

Acq: 24 Oct 2014 14:18

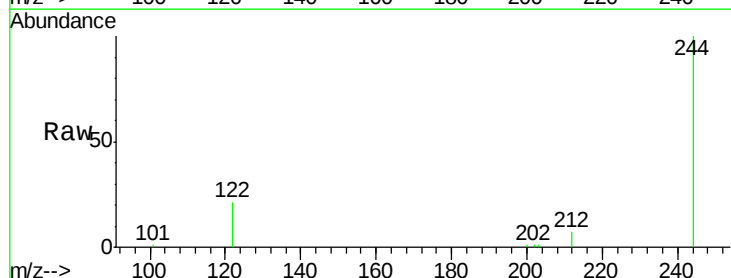
Tgt Ion: 244 Resp: 12405

Ion Ratio Lower Upper

244 100

212 6.9 5.4 8.2

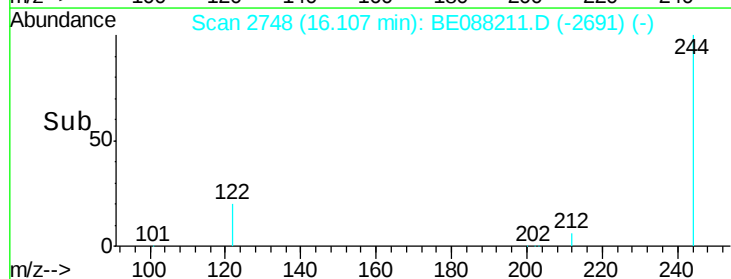
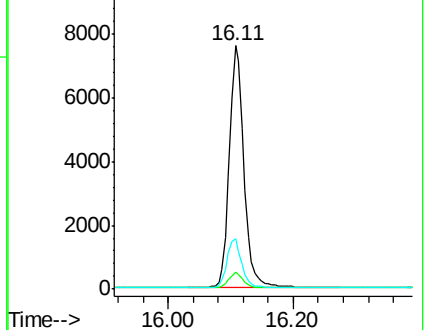
122 20.8 16.7 25.1

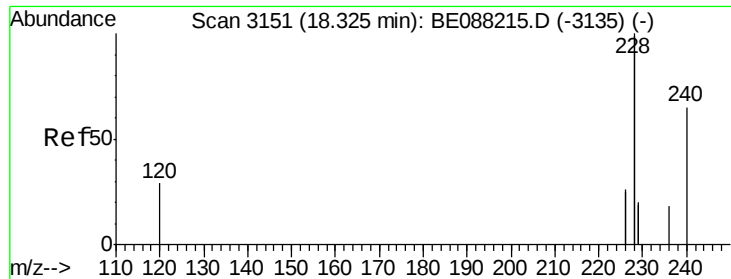


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#19

Benzo(a)anthracene

Concen: 0.70 ng

RT: 18.32 min Scan# 3153

Delta R.T. -0.00 min

Lab File: BE088211.D

Acq: 24 Oct 2014 14:18

Instrument :

BNA_E

ClientSampleId :

SSTDIC0.8

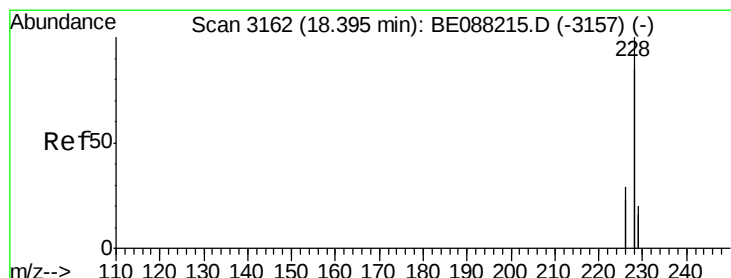
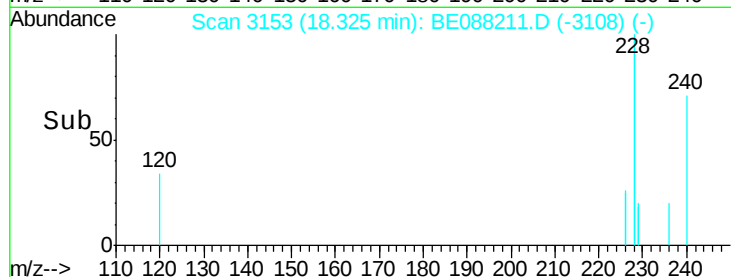
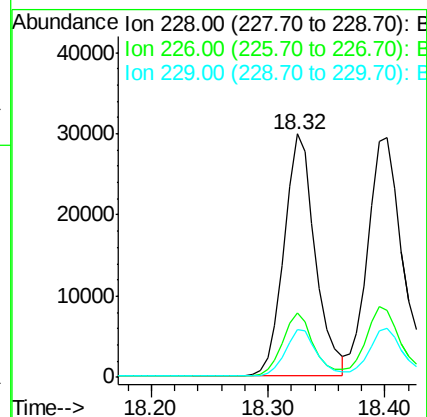
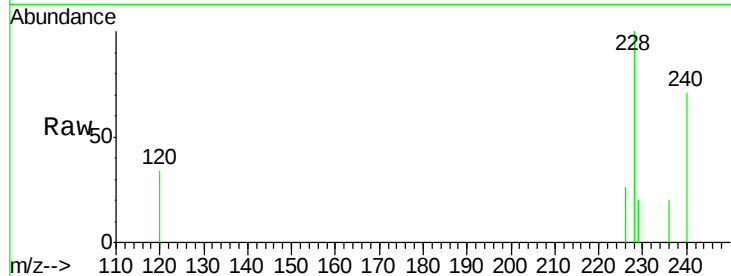
Tgt Ion:228 Resp: 55551

Ion Ratio Lower Upper

228 100

226 26.5 20.5 30.7

229 19.7 16.1 24.1



#20

Chrysene

Concen: 0.73 ng

RT: 18.40 min Scan# 3165

Delta R.T. 0.01 min

Lab File: BE088211.D

Acq: 24 Oct 2014 14:18

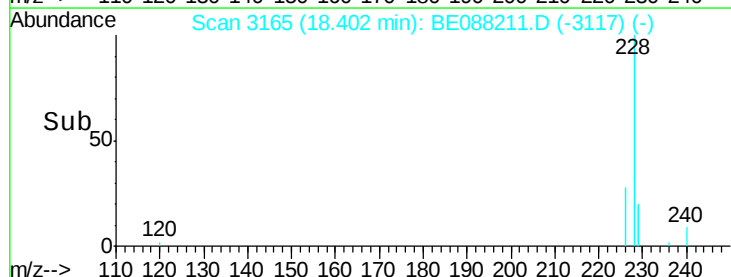
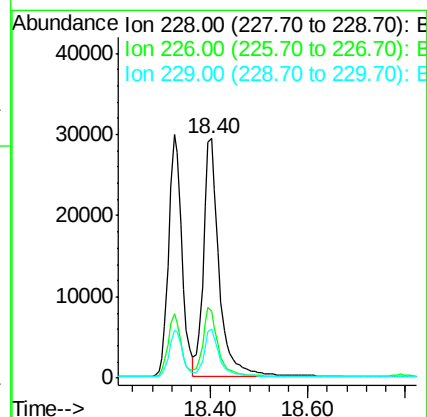
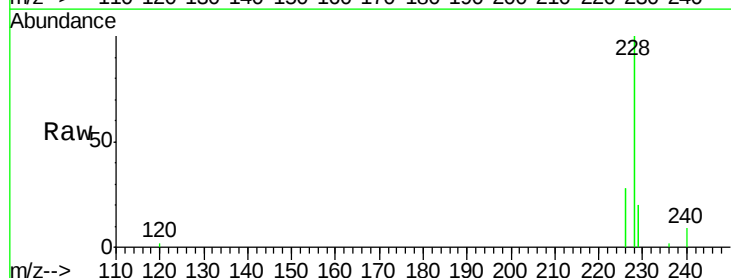
Tgt Ion:228 Resp: 65495

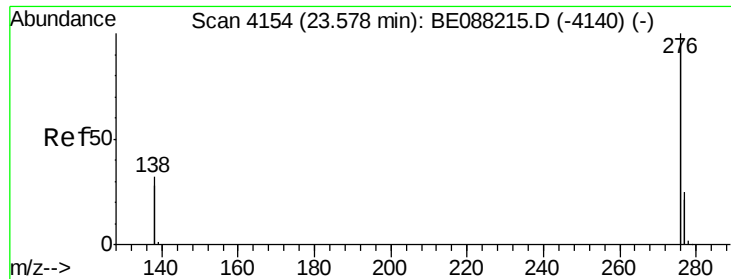
Ion Ratio Lower Upper

228 100

226 28.0 23.3 34.9

229 20.4 15.6 23.4





#21

Indeno(1,2,3-cd)pyrene

Concen: 0.36 ng

RT: 23.58 min Scan# 4156

Delta R.T. 0.00 min

Lab File: BE088211.D

Acq: 24 Oct 2014 14:18

Instrument :

BNA_E

ClientSampleId :

SSTDIC0.8

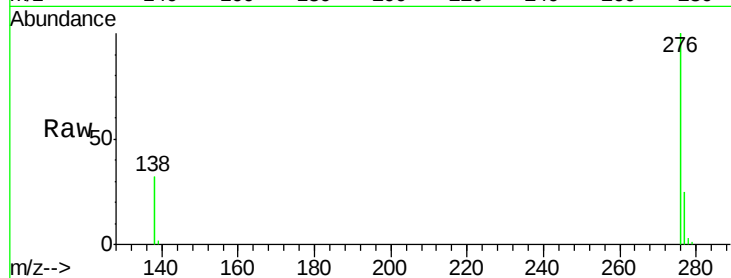
Tgt Ion: 276 Resp: 28629

Ion Ratio Lower Upper

276 100

138 29.2 13.9 20.9#

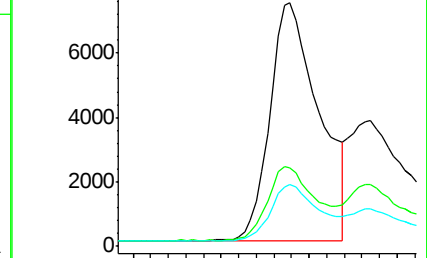
277 23.5 10.7 16.1#



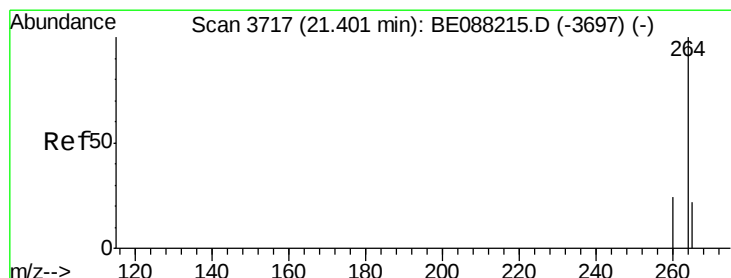
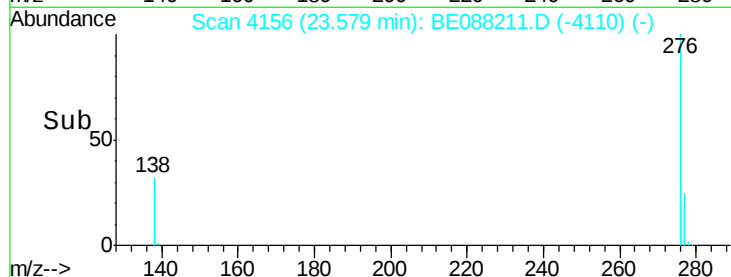
Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E



Time--> 23.40 23.50 23.60



#22

Perylene-d12

Concen: 5.00 ng

RT: 21.40 min Scan# 3719

Delta R.T. 0.00 min

Lab File: BE088211.D

Acq: 24 Oct 2014 14:18

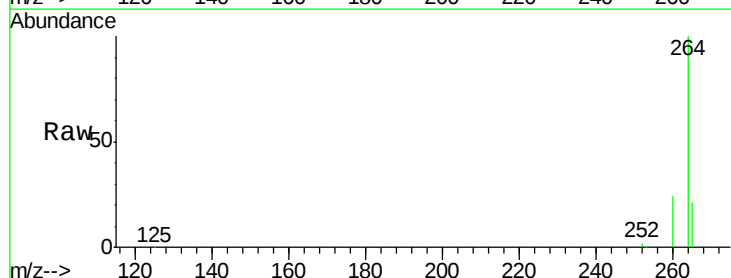
Tgt Ion: 264 Resp: 87371

Ion Ratio Lower Upper

264 100

260 23.6 19.0 28.4

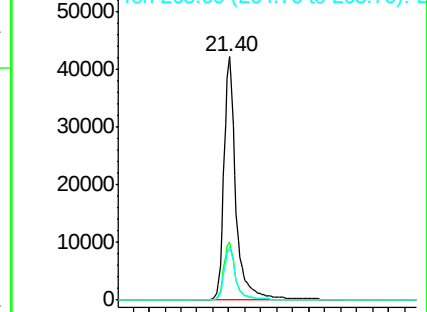
265 21.5 17.4 26.2



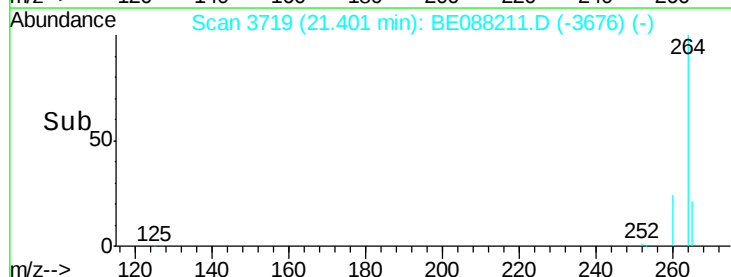
Abundance Ion 264.00 (263.70 to 264.70): E

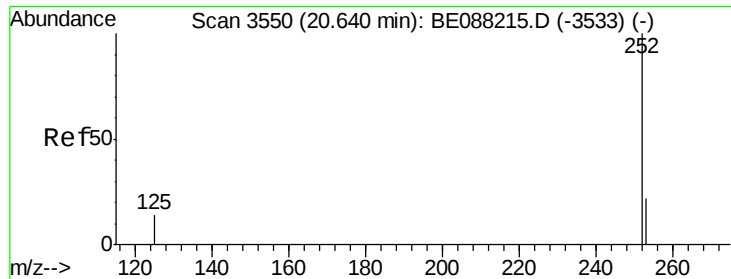
Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E



Time--> 21.20 21.40 21.60 21.80





#23

Benzo(b)fluoranthene

Concen: 0.72 ng

RT: 20.64 min Scan# 3552

Delta R.T. 0.00 min

Lab File: BE088211.D

Acq: 24 Oct 2014 14:18

Instrument :

BNA_E

ClientSampleId :

SSTDIC0.8

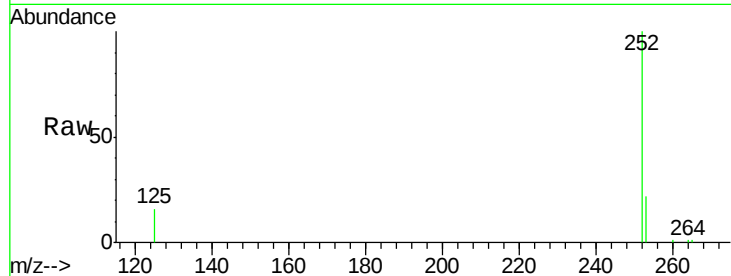
Tgt Ion:252 Resp: 10259

Ion Ratio Lower Upper

252 100

253 21.8 17.9 26.9

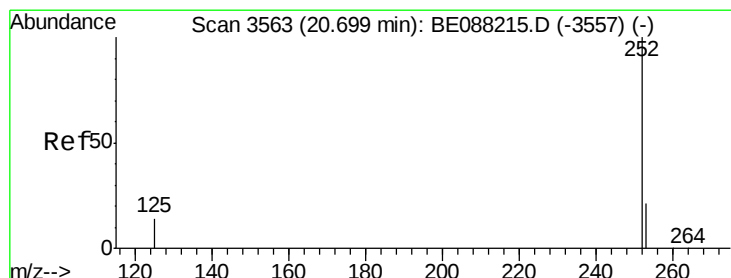
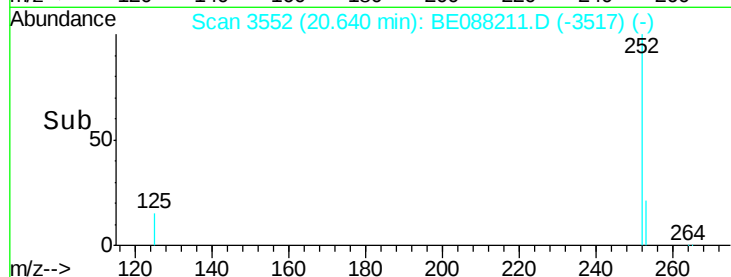
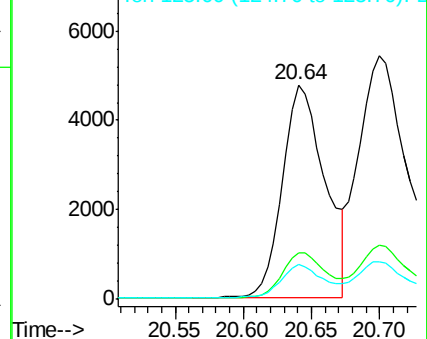
125 16.1 12.2 18.2



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#24

Benzo(k)fluoranthene

Concen: 0.75 ng

RT: 20.70 min Scan# 3565

Delta R.T. 0.00 min

Lab File: BE088211.D

Acq: 24 Oct 2014 14:18

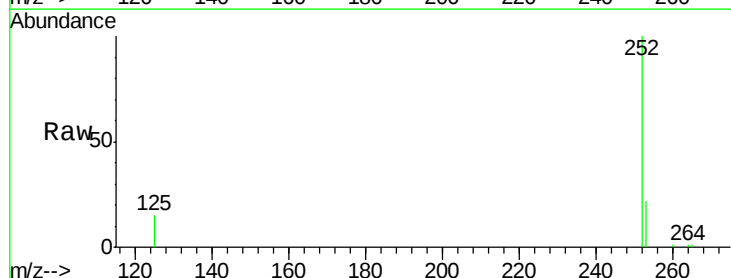
Tgt Ion:252 Resp: 16927

Ion Ratio Lower Upper

252 100

253 22.3 17.6 26.4

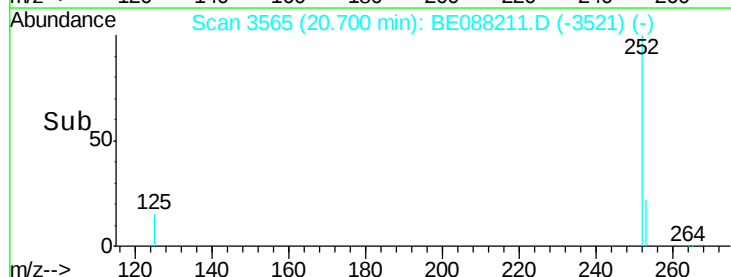
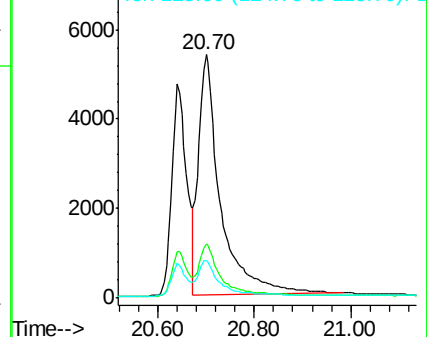
125 15.5 12.1 18.1

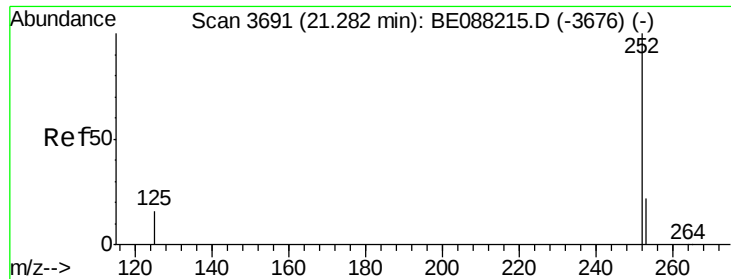


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

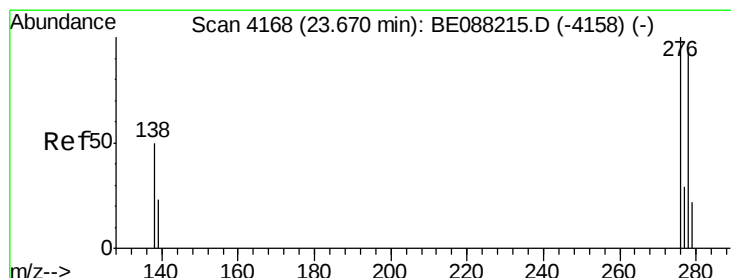
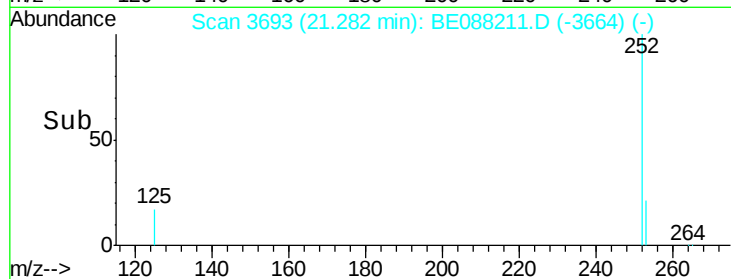
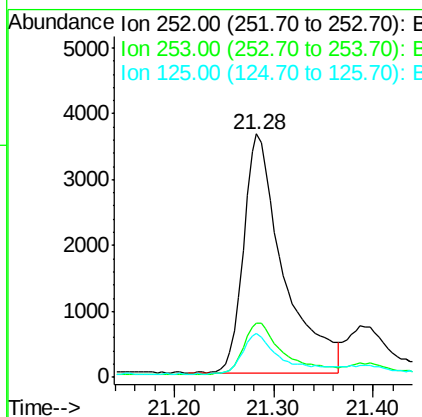
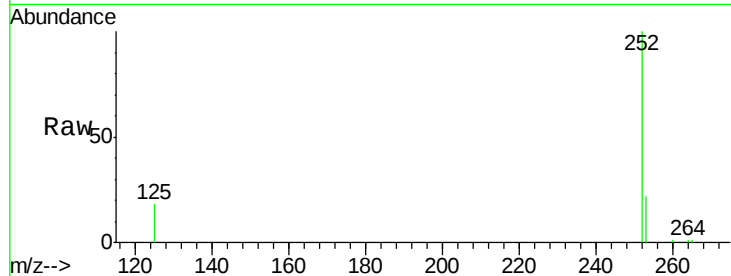




#25
Benzo(a)pyrene
Concen: 0.71 ng
RT: 21.28 min Scan# 3693
Delta R.T. 0.00 min
Lab File: BE088211.D
Acq: 24 Oct 2014 14:18

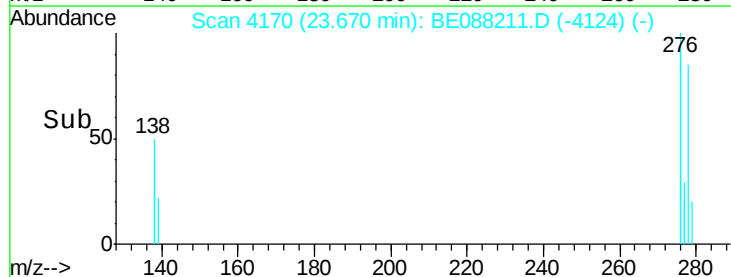
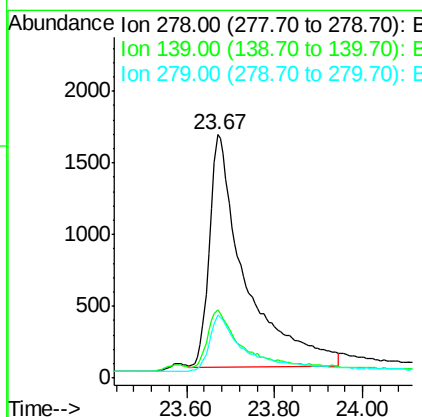
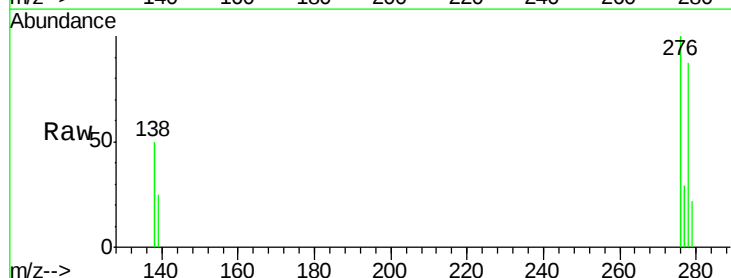
Instrument :
BNA_E
ClientSampleId :
SSTDIC0.8

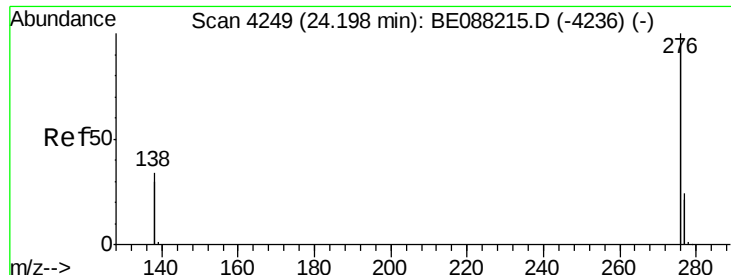
Tgt Ion: 252 Resp: 10067
Ion Ratio Lower Upper
252 100
253 22.4 17.8 26.8
125 18.2 13.5 20.3



#26
Dibenzo(a,h)anthracene
Concen: 0.69 ng
RT: 23.67 min Scan# 4170
Delta R.T. 0.00 min
Lab File: BE088211.D
Acq: 24 Oct 2014 14:18

Tgt Ion: 278 Resp: 9172
Ion Ratio Lower Upper
278 100
139 28.2 22.1 33.1
279 25.8 20.2 30.2





#27

Benzo(g,h,i)perylene

Concen: 0.70 ng

RT: 24.20 min Scan# 4251

Delta R.T. 0.00 min

Lab File: BE088211.D

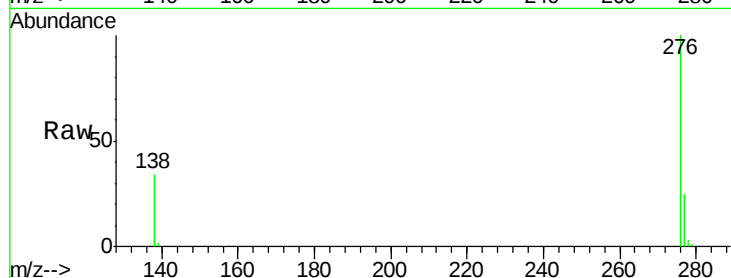
Acq: 24 Oct 2014 14:18

Instrument :

BNA_E

ClientSampleId :

SSTDIC0.8



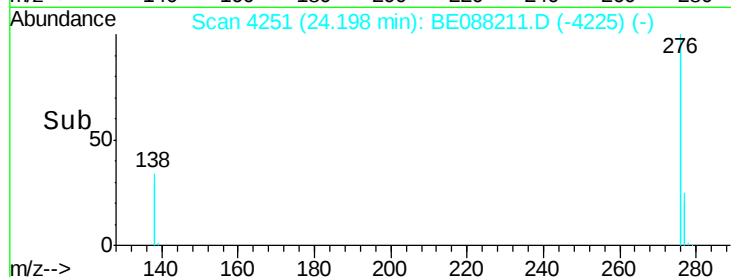
Tgt Ion: 276 Resp: 48991

Ion Ratio Lower Upper

276 100

277 24.8 19.4 29.2

138 34.4 27.3 40.9



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

