

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE102414\
 Data File : BE088212.D
 Acq On : 24 Oct 2014 14:54
 Operator : TP/JJ
 Sample : SSTDICC002
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 SSTDICC002

Quant Time: Oct 27 12:42:27 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	56013	5.00	ng	0.00
3) Naphthalene-d8	8.68	136	216263	5.00	ng	0.00
7) Acenaphthene-d10	10.83	164	98675	5.00	ng	0.00
12) Phenanthrene-d10	12.94	188	175743	5.00	ng	0.00
16) Chrysene-d12	18.35	240	98346	5.00	ng	0.00
22) Perylene-d12	21.40	264	87841	5.00	ng	0.00

System Monitoring Compounds						
4) Nitrobenzene-d5	7.80	82	29926	2.25	ng	0.00
8) 2-Fluorobiphenyl	10.01	172	56931	2.07	ng	0.00
18) Terphenyl-d14	16.11	244	34954	2.17	ng	0.00

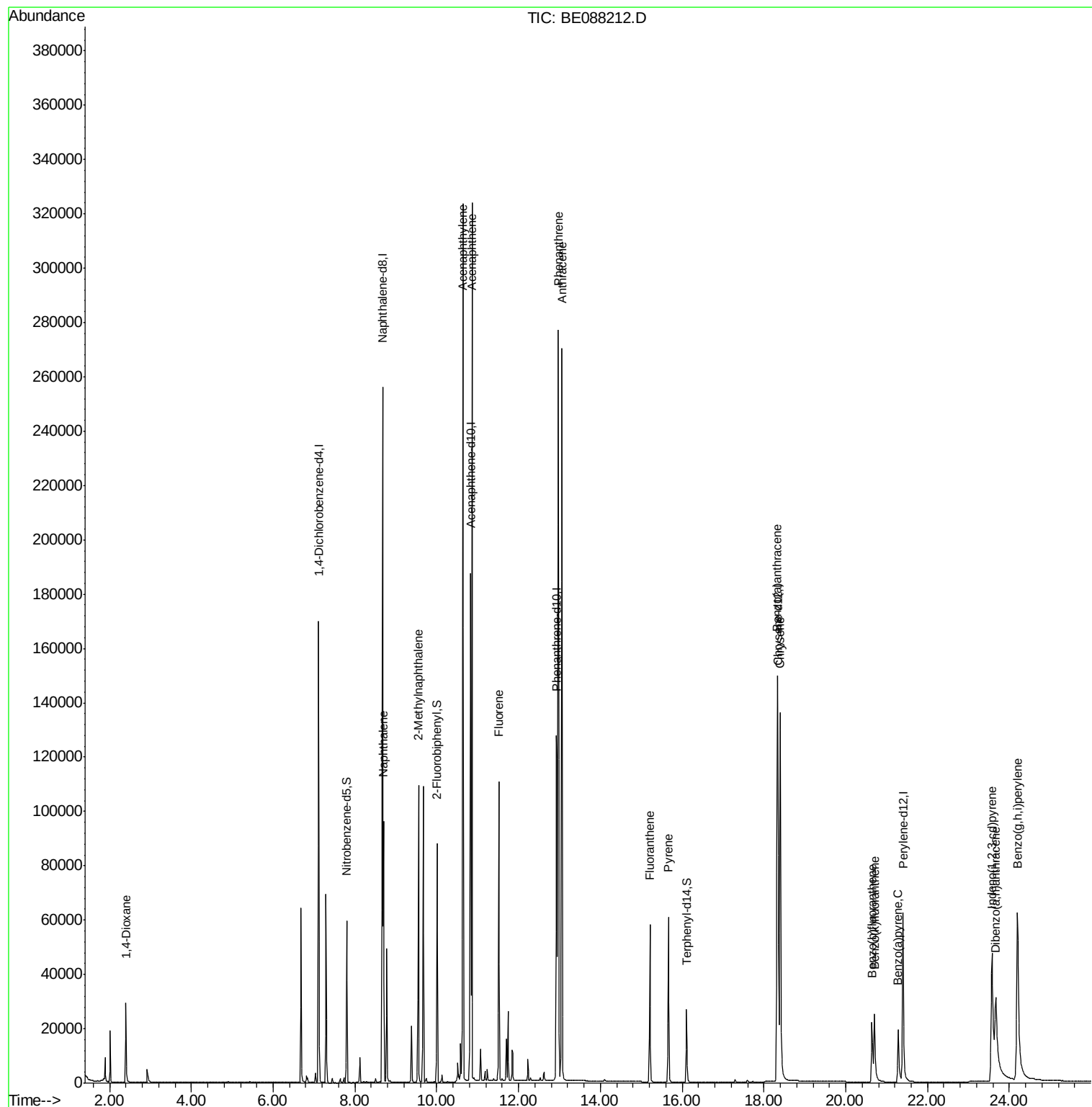
Target Compounds				Qvalue		
2) 1,4-Dioxane	2.40	88	16131	2.05	ng	100
5) Naphthalene	8.70	128	90554	2.06	ng	99
6) 2-Methylnaphthalene	9.55	142	56417	2.13	ng	99
9) Acenaphthylene	10.64	152	317980	2.16	ng	100
10) Acenaphthene	10.86	154	46655	2.00	ng	98
11) Fluorene	11.52	166	50854	2.14	ng	100
13) Phenanthrene	12.97	178	334724	2.31	ng	97
14) Anthracene	13.06	178	264596	2.11	ng	100
15) Fluoranthene	15.21	202	55055	2.14	ng	100
17) Pyrene	15.67	202	59336	2.20	ng	100
19) Benzo(a)anthracene	18.33	228	161265	2.08	ng	100
20) Chrysene	18.40	228	178587	2.03	ng	100
21) Indeno(1,2,3-cd)pyrene	23.58	276	99569	1.28	ng	# 71
23) Benzo(b)fluoranthene	20.64	252	34063	2.37	ng	99
24) Benzo(k)fluoranthene	20.70	252	47473	2.09	ng	99
25) Benzo(a)pyrene	21.28	252	33359	2.35	ng	99
26) Dibenzo(a,h)anthracene	23.68	278	30326	2.26	ng	97
27) Benzo(g,h,i)perylene	24.20	276	152272	2.16	ng	99

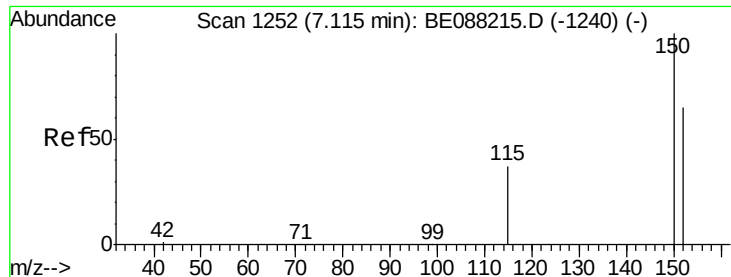
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 7.11 min Scan# 1252

Delta R.T. -0.00 min

Lab File: BE088212.D

Acq: 24 Oct 2014 14:54

Instrument :

BNA_E

ClientSampleId :

SSTDICC002

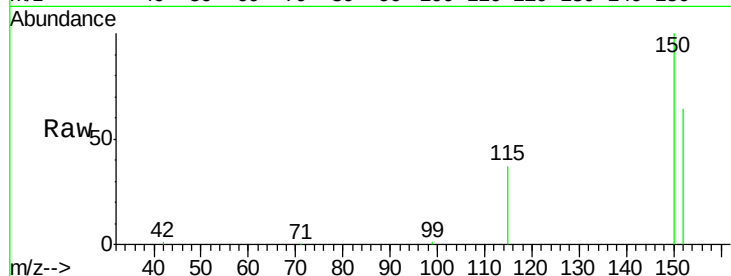
Tgt Ion:152 Resp: 56013

Ion Ratio Lower Upper

152 100

150 156.3 123.2 184.8

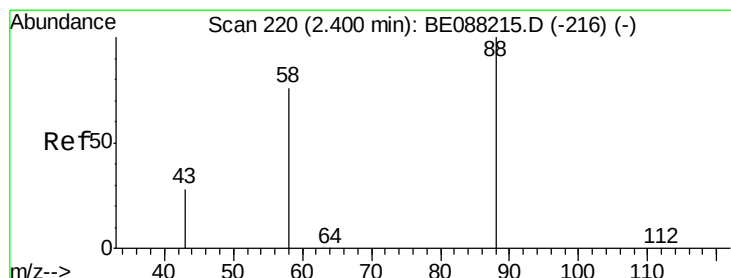
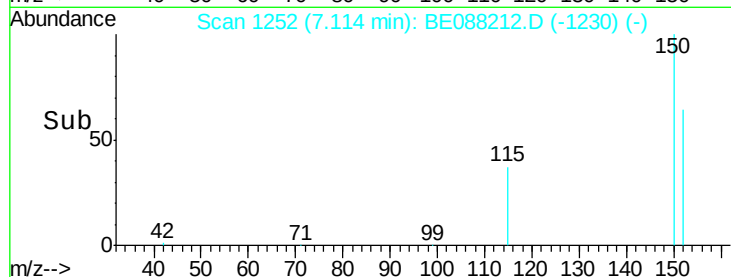
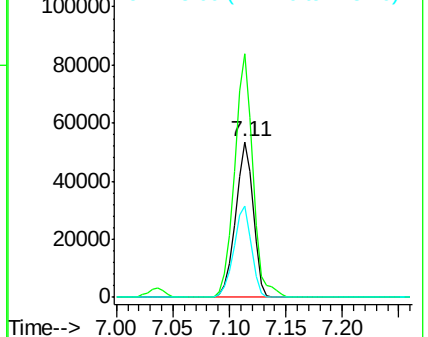
115 58.6 45.3 67.9



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: 2.05 ng

RT: 2.40 min Scan# 220

Delta R.T. -0.00 min

Lab File: BE088212.D

Acq: 24 Oct 2014 14:54

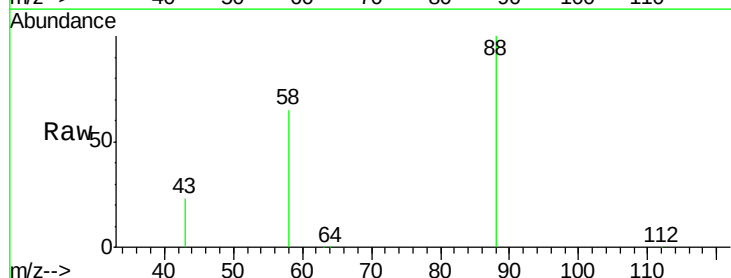
Tgt Ion: 88 Resp: 16131

Ion Ratio Lower Upper

88 100

58 74.3 59.0 88.4

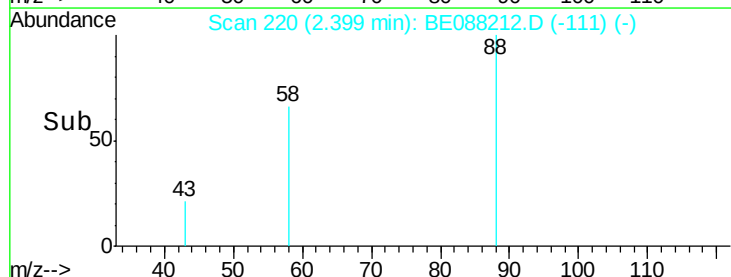
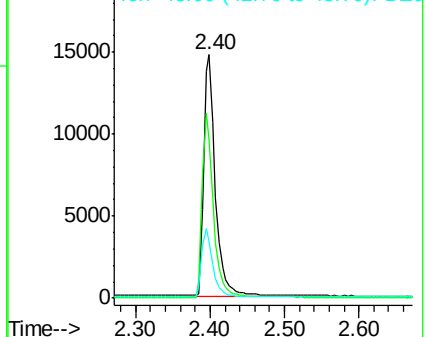
43 27.4 21.9 32.9

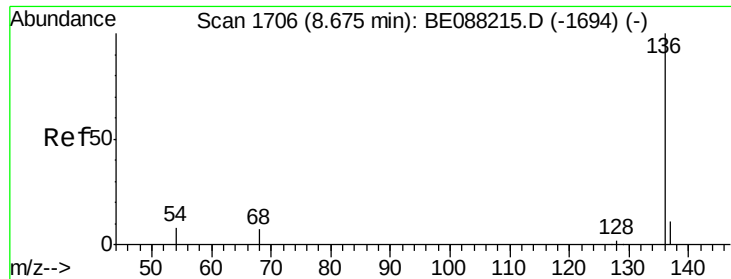


Abundance Ion 88.00 (87.70 to 88.70): BE0

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# 1707

Delta R.T. 0.00 min

Lab File: BE088212.D

Acq: 24 Oct 2014 14:54

Instrument :

BNA_E

ClientSampleId :

SSTDICC002

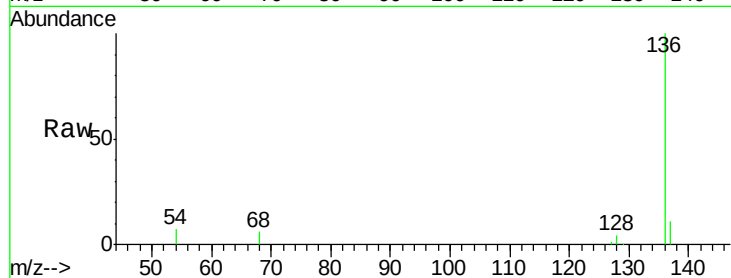
Tgt Ion:136 Resp: 216263

Ion Ratio Lower Upper

136 100

137 11.1 8.7 13.1

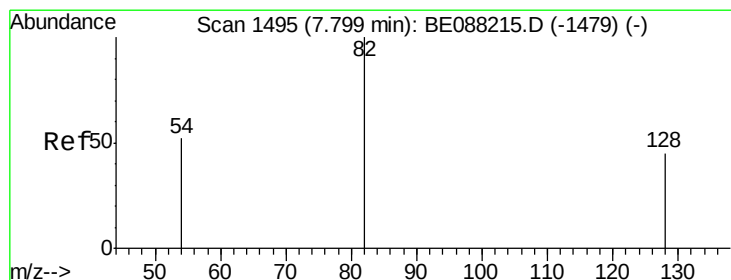
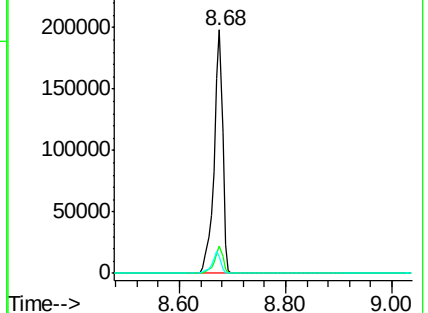
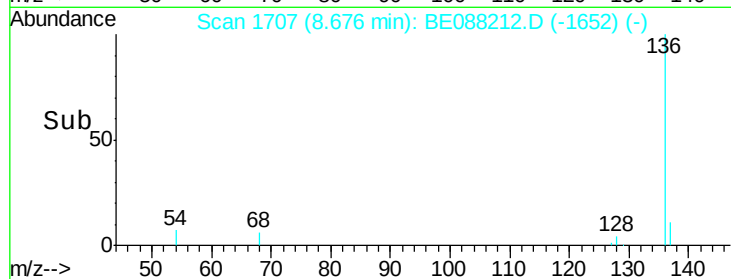
54 6.9 6.1 9.1



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: 2.25 ng

RT: 7.80 min Scan# 1496

Delta R.T. 0.00 min

Lab File: BE088212.D

Acq: 24 Oct 2014 14:54

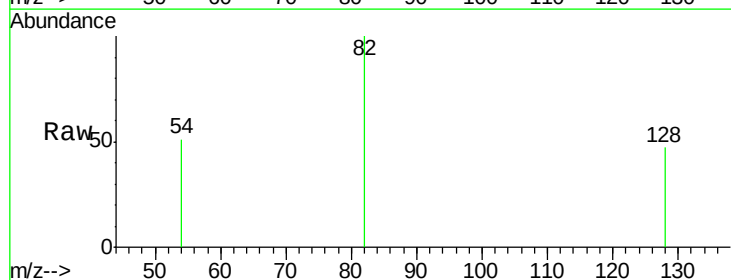
Tgt Ion: 82 Resp: 29926

Ion Ratio Lower Upper

82 100

128 47.0 36.2 54.2

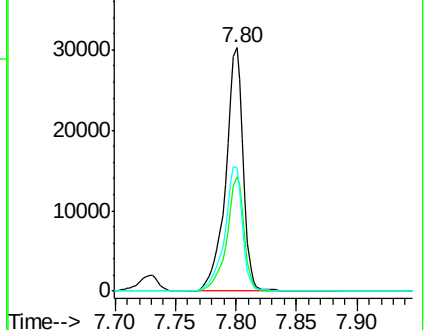
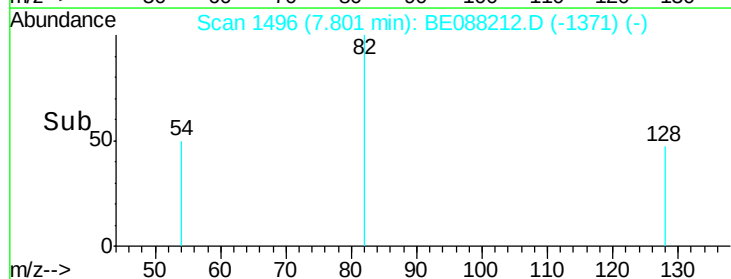
54 50.5 41.8 62.8

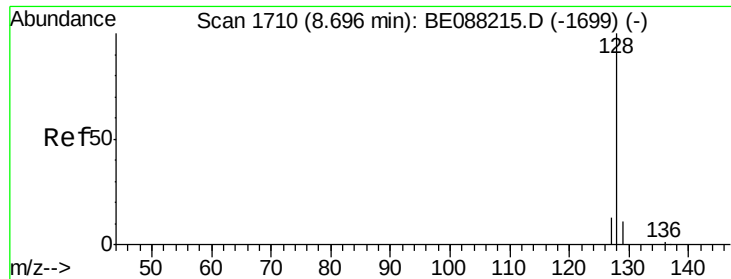


Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BE0





#5

Naphthalene

Concen: 2.06 ng

RT: 8.70 min Scan# 1711

Delta R.T. 0.00 min

Lab File: BE088212.D

Acq: 24 Oct 2014 14:54

Instrument :

BNA_E

ClientSampleId :

SSTDICC002

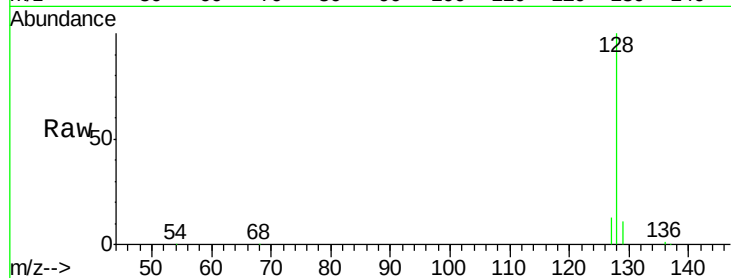
Tgt Ion:128 Resp: 90554

Ion Ratio Lower Upper

128 100

129 10.8 8.6 12.8

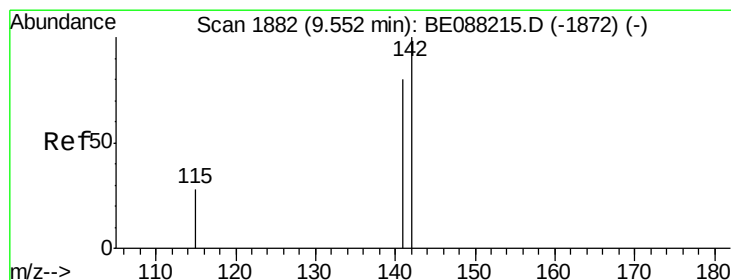
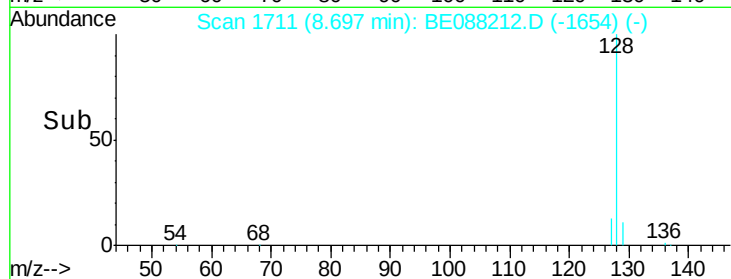
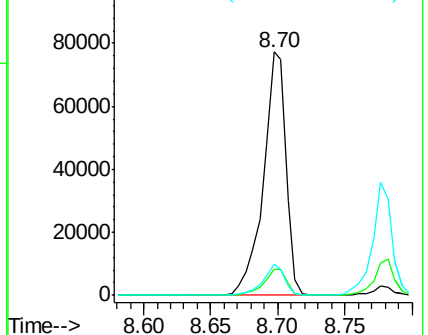
127 12.7 10.4 15.6



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: 2.13 ng

RT: 9.55 min Scan# 1883

Delta R.T. 0.00 min

Lab File: BE088212.D

Acq: 24 Oct 2014 14:54

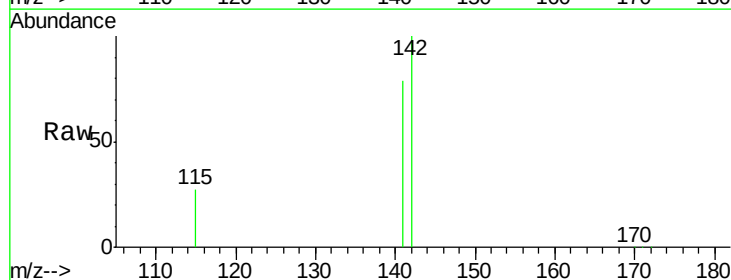
Tgt Ion:142 Resp: 56417

Ion Ratio Lower Upper

142 100

141 78.7 63.7 95.5

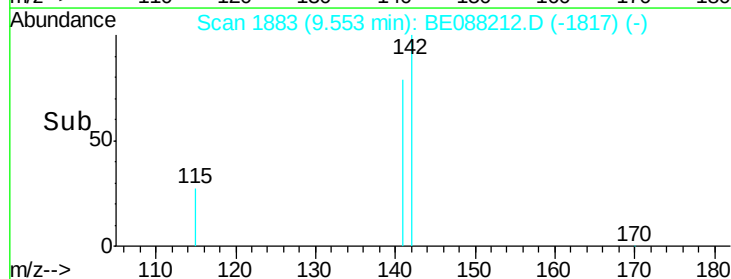
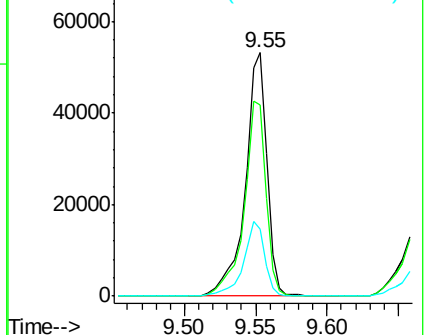
115 27.4 22.6 34.0

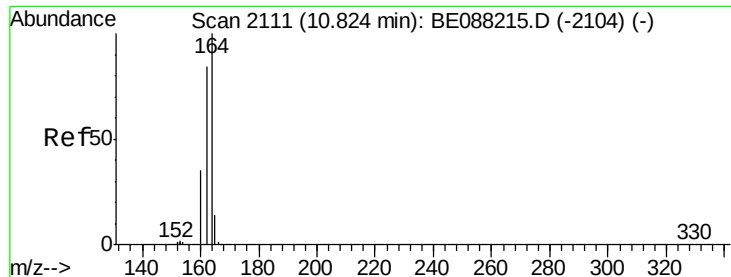


Abundance Ion 142.00 (141.70 to 142.70): E

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: 10.83 min Scan# 2112

Delta R.T. 0.00 min

Lab File: BE088212.D

Acq: 24 Oct 2014 14:54

Instrument :

BNA_E

ClientSampleId :

SSTDICC002

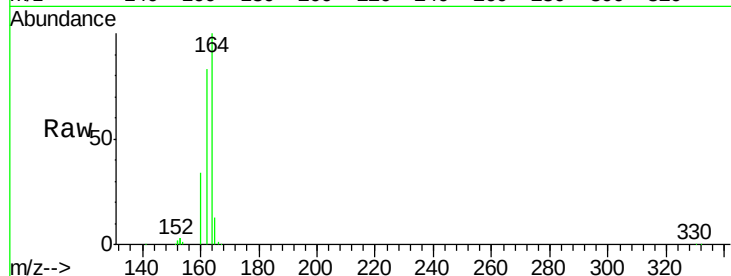
Tgt Ion:164 Resp: 98675

Ion Ratio Lower Upper

164 100

162 83.1 67.4 101.0

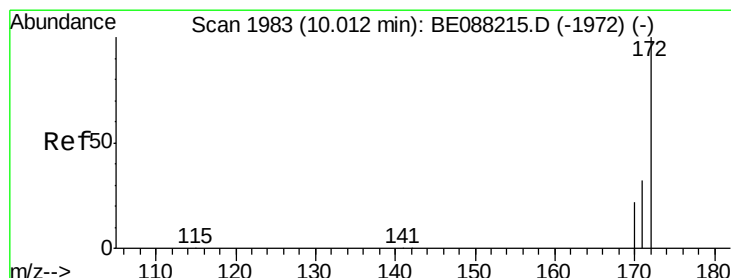
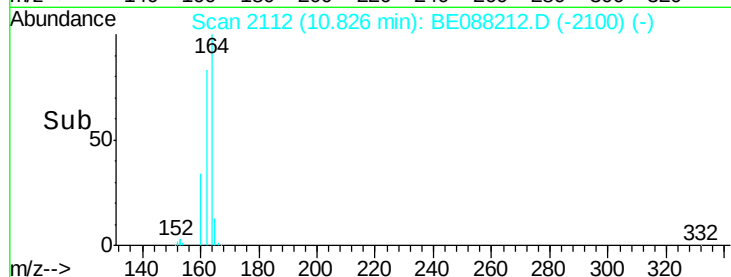
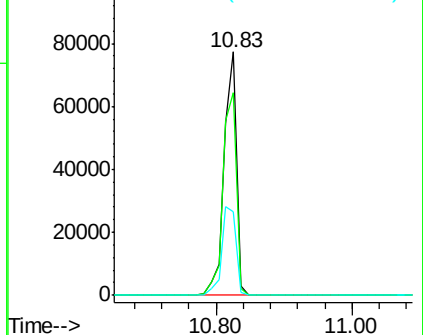
160 34.3 27.7 41.5



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: 2.07 ng

RT: 10.01 min Scan# 1984

Delta R.T. 0.00 min

Lab File: BE088212.D

Acq: 24 Oct 2014 14:54

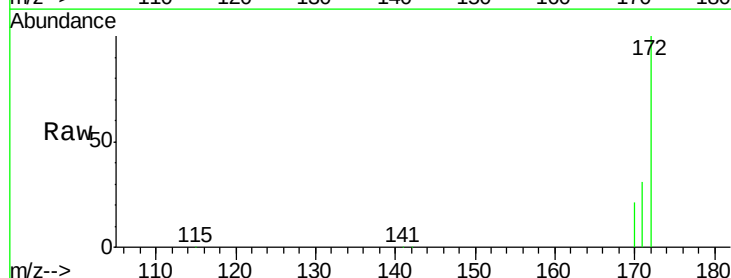
Tgt Ion:172 Resp: 56931

Ion Ratio Lower Upper

172 100

171 31.1 25.8 38.6

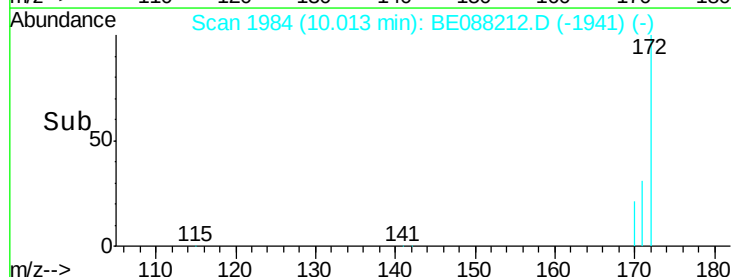
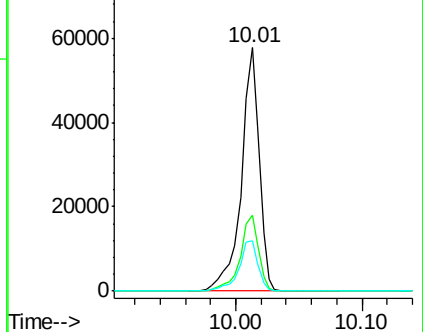
170 20.9 17.4 26.0

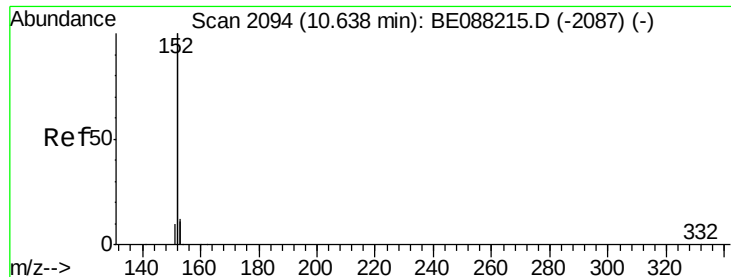


Abundance Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E





#9

Acenaphthylene

Concen: 2.16 ng

RT: 10.64 min Scan# 2095

Delta R.T. 0.00 min

Lab File: BE088212.D

Acq: 24 Oct 2014 14:54

Instrument :

BNA_E

ClientSampleId :

SSTDIC002

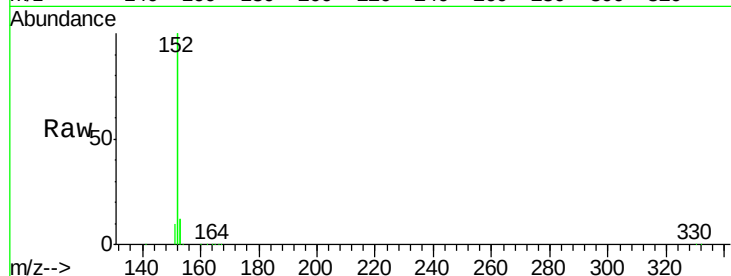
Tgt Ion:152 Resp: 317980

Ion Ratio Lower Upper

152 100

151 4.6 3.7 5.5

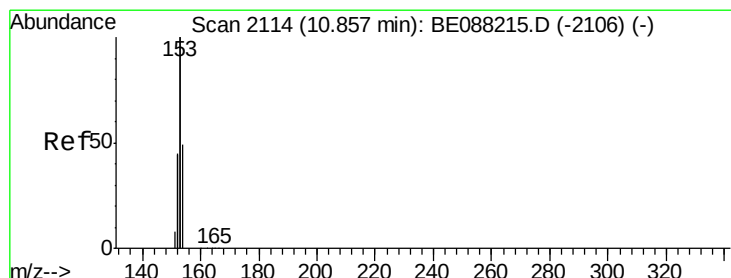
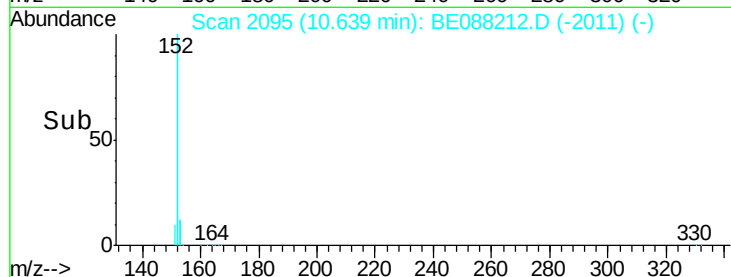
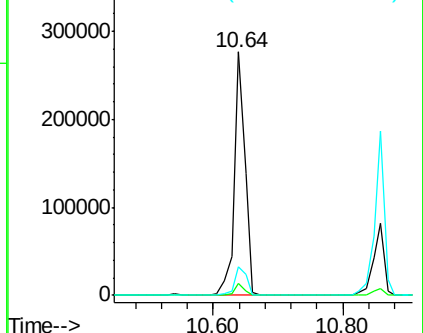
153 13.0 10.3 15.5



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: 2.00 ng

RT: 10.86 min Scan# 2115

Delta R.T. 0.00 min

Lab File: BE088212.D

Acq: 24 Oct 2014 14:54

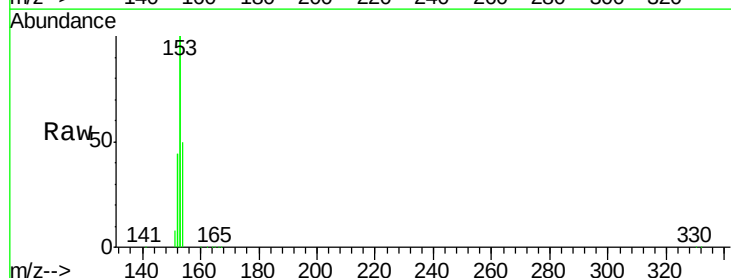
Tgt Ion:154 Resp: 46655

Ion Ratio Lower Upper

154 100

153 411.0 326.0 489.0

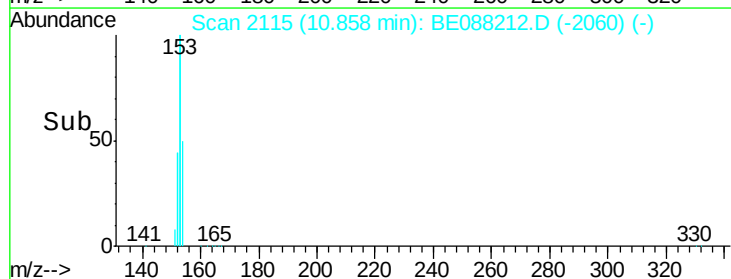
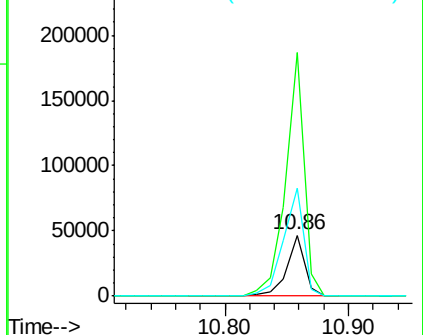
152 198.1 155.6 233.4

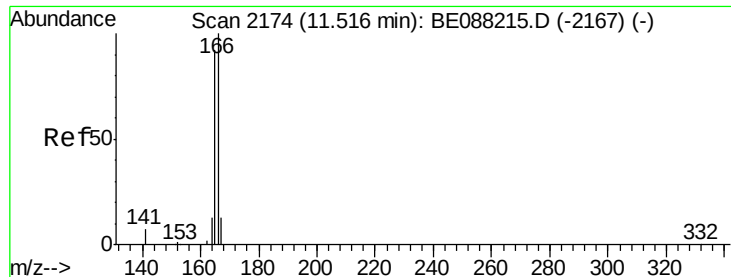


Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E

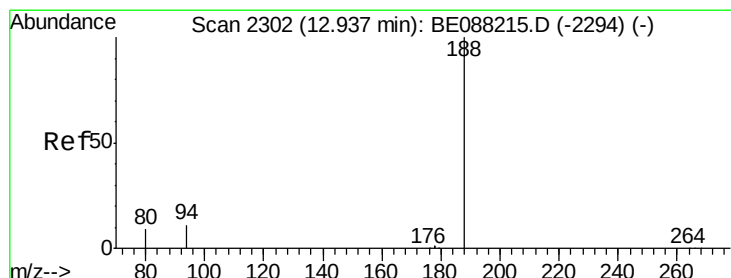
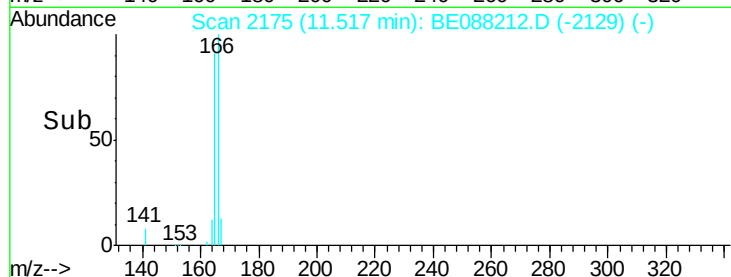
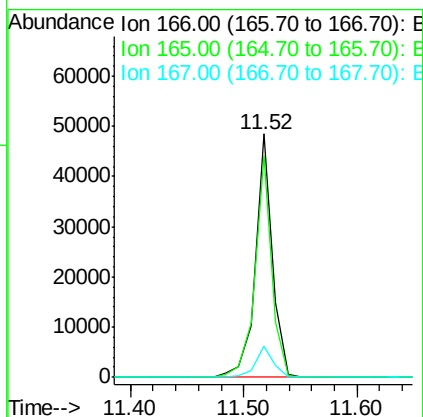
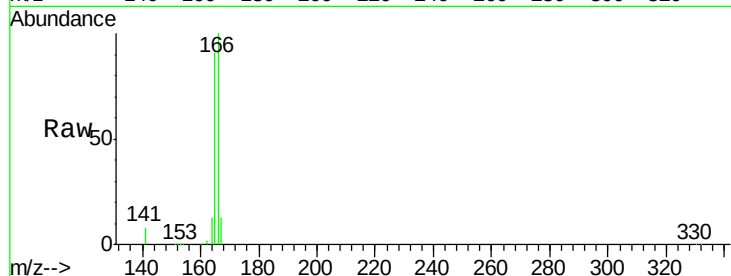




#11
 Fluorene
 Concen: 2.14 ng
 RT: 11.52 min Scan# 2175
 Delta R.T. 0.00 min
 Lab File: BE088212.D
 Acq: 24 Oct 2014 14:54

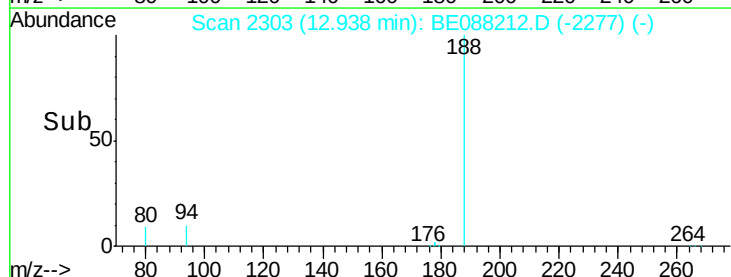
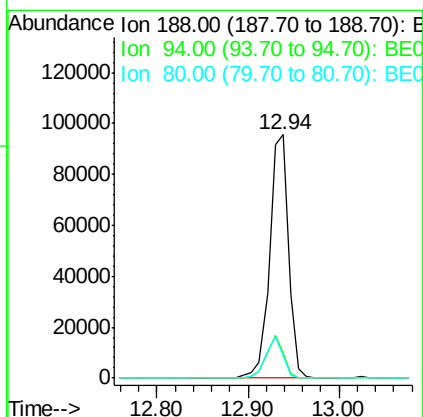
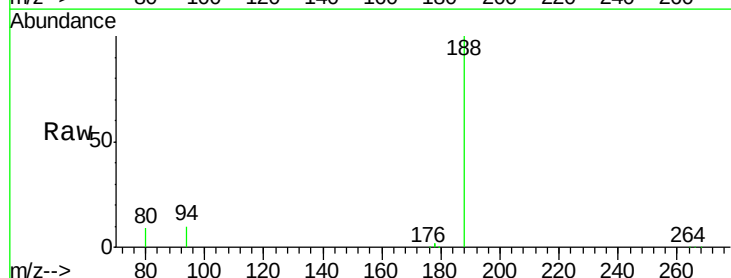
Instrument :
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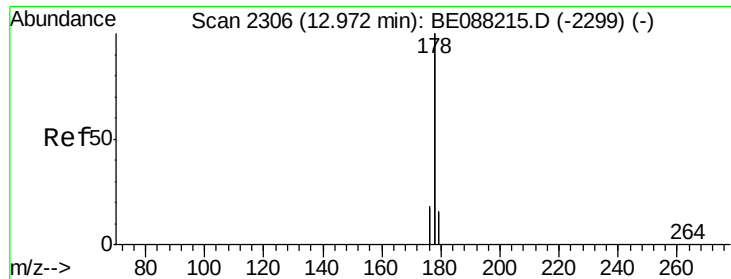
Tgt Ion:166 Resp: 50854
 Ion Ratio Lower Upper
 166 100
 165 89.9 71.8 107.6
 167 13.3 10.7 16.1



#12
 Phenanthrene-d10
 Concen: 5.00 ng
 RT: 12.94 min Scan# 2303
 Delta R.T. 0.00 min
 Lab File: BE088212.D
 Acq: 24 Oct 2014 14:54

Tgt Ion:188 Resp: 175743
 Ion Ratio Lower Upper
 188 100
 94 10.4 8.5 12.7
 80 9.1 7.4 11.0

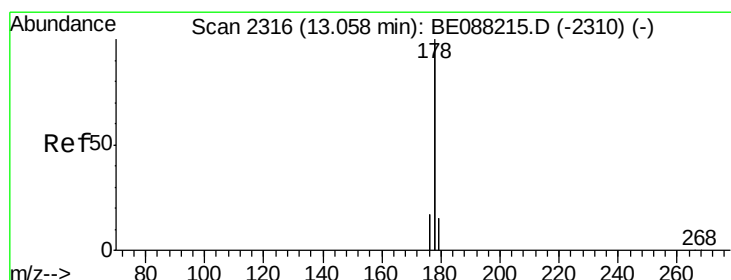
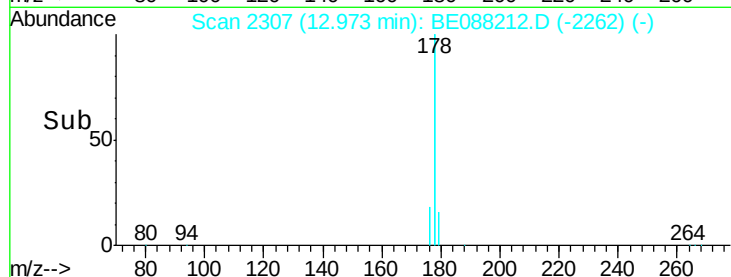
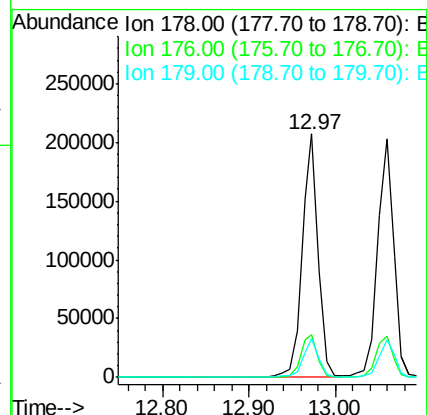
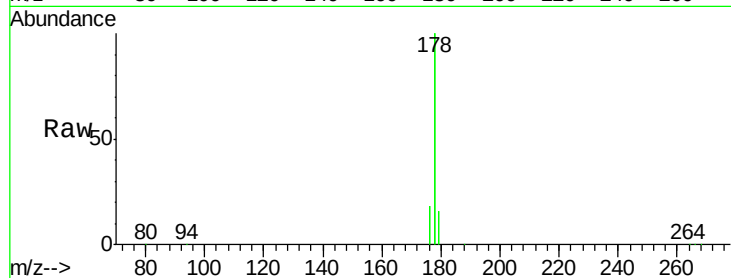




#13
Phenanthrene
Concen: 2.31 ng
RT: 12.97 min Scan# 2307
Delta R.T. 0.00 min
Lab File: BE088212.D
Acq: 24 Oct 2014 14:54

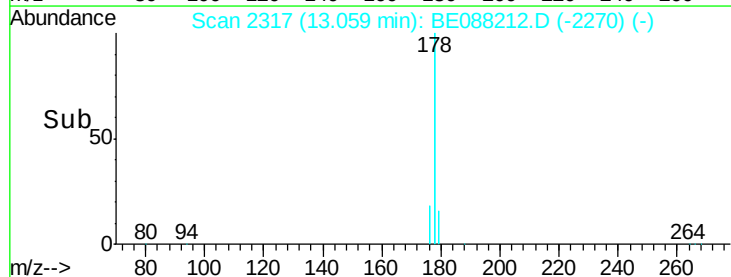
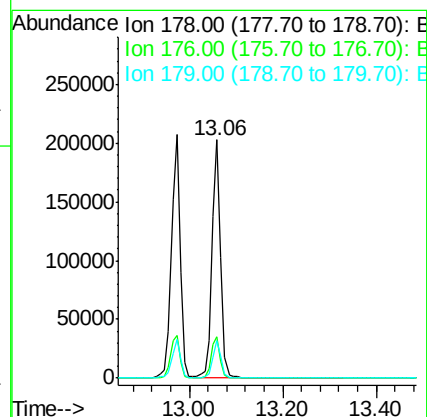
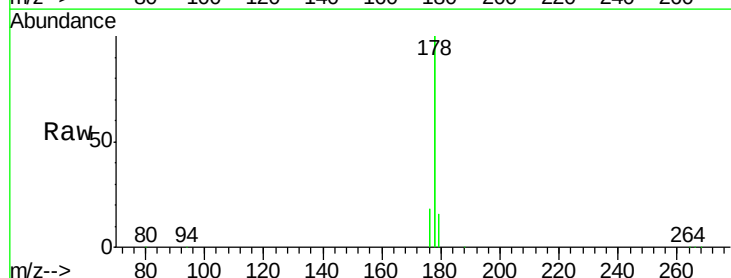
Instrument :
BNA_E
ClientSampleId :
SSTDICC002

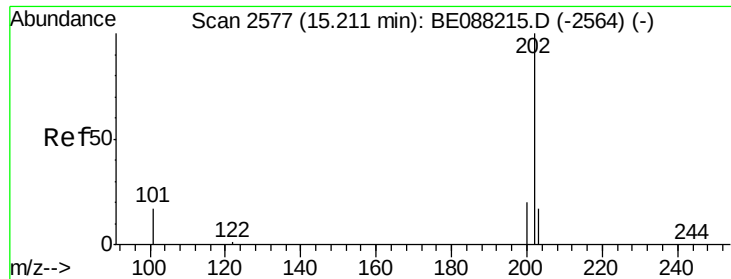
Tgt Ion:178 Resp: 334724
Ion Ratio Lower Upper
178 100
176 18.9 14.0 21.0
179 15.8 11.8 17.6



#14
Anthracene
Concen: 2.11 ng
RT: 13.06 min Scan# 2317
Delta R.T. 0.00 min
Lab File: BE088212.D
Acq: 24 Oct 2014 14:54

Tgt Ion:178 Resp: 264596
Ion Ratio Lower Upper
178 100
176 18.3 14.7 22.1
179 15.6 12.3 18.5

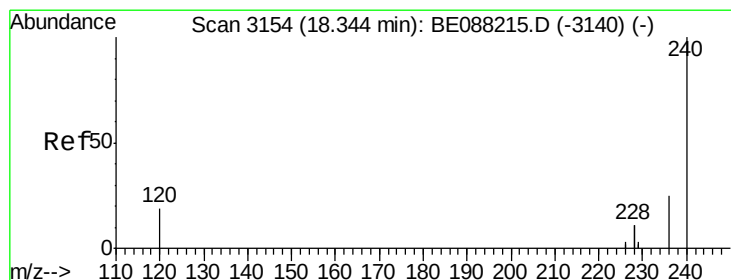
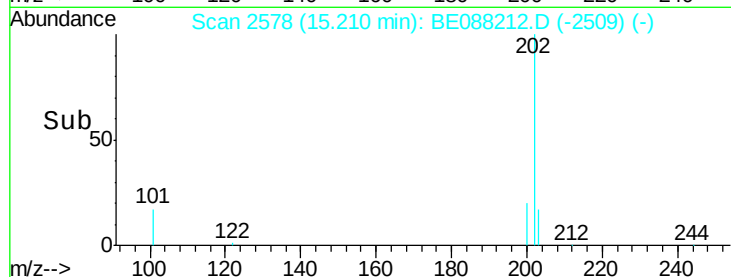
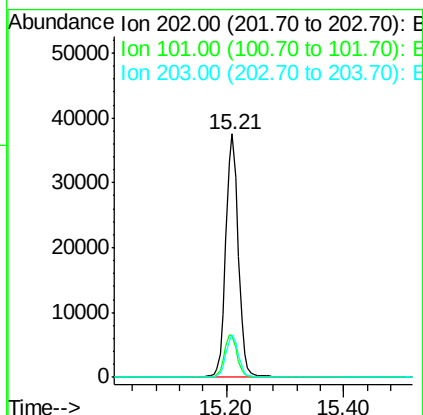
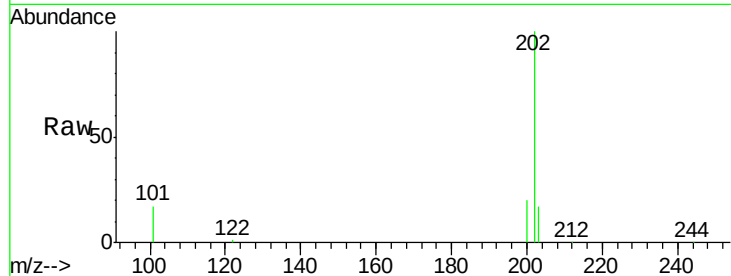




#15
 Fluoranthene
 Concen: 2.14 ng
 RT: 15.21 min Scan# 2578
 Delta R.T. -0.00 min
 Lab File: BE088212.D
 Acq: 24 Oct 2014 14:54

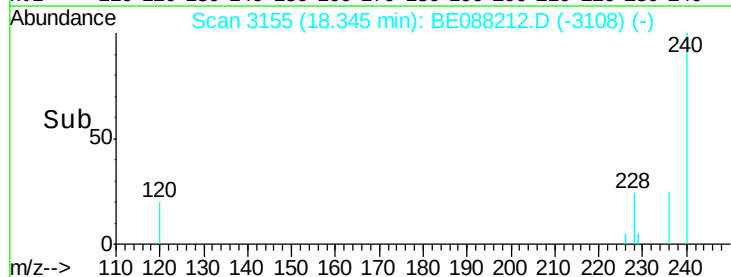
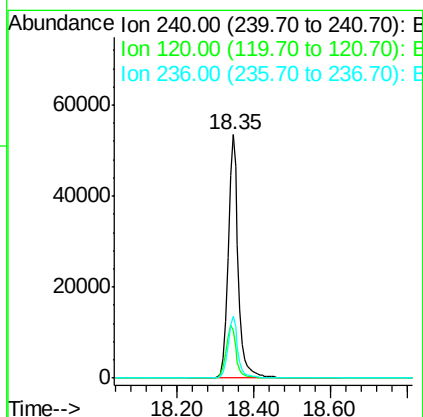
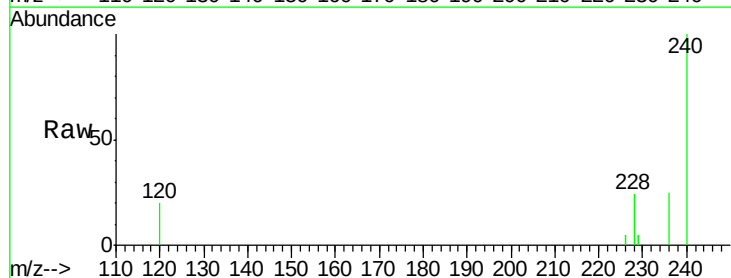
Instrument :
 BNA_E
 ClientSampleId :
 SSTDICC002

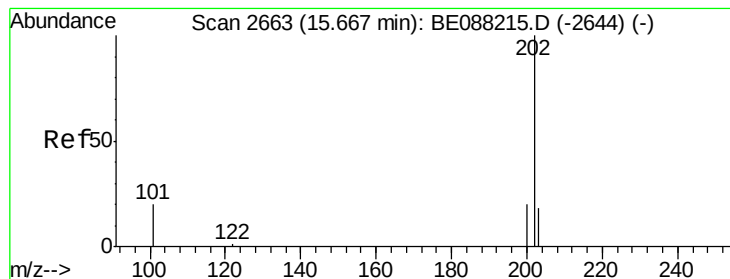
Tgt Ion: 202 Resp: 55055
 Ion Ratio Lower Upper
 202 100
 101 17.9 14.4 21.6
 203 17.1 13.4 20.2



#16
 Chrysene-d12
 Concen: 5.00 ng
 RT: 18.35 min Scan# 3155
 Delta R.T. 0.00 min
 Lab File: BE088212.D
 Acq: 24 Oct 2014 14:54

Tgt Ion: 240 Resp: 98346
 Ion Ratio Lower Upper
 240 100
 120 19.7 15.1 22.7
 236 25.3 20.1 30.1





#17

Pyrene

Concen: 2.20 ng

RT: 15.67 min Scan# 2664

Delta R.T. -0.00 min

Lab File: BE088212.D

Acq: 24 Oct 2014 14:54

Instrument :

BNA_E

ClientSampleId :

SSTDICC002

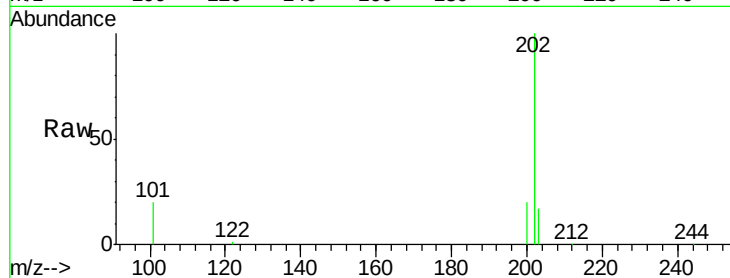
Tgt Ion: 202 Resp: 59336

Ion Ratio Lower Upper

202 100

200 20.3 16.2 24.2

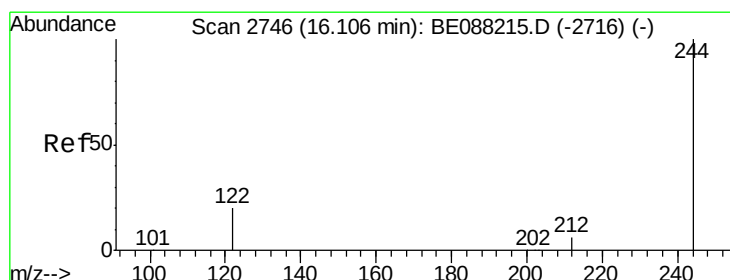
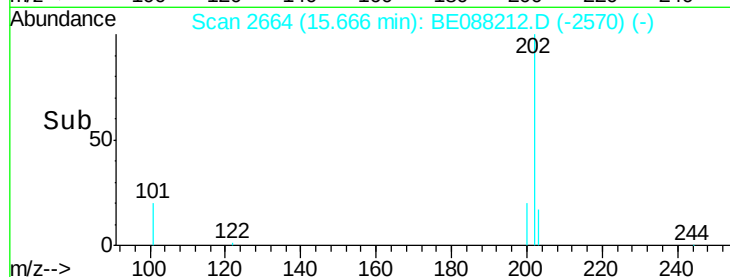
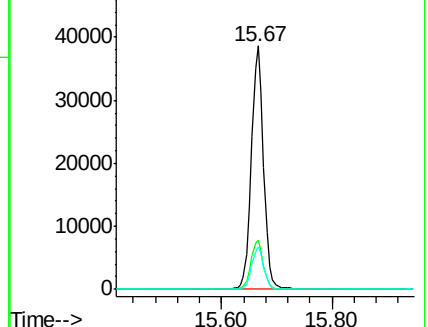
203 17.4 13.8 20.8



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: 2.17 ng

RT: 16.11 min Scan# 2747

Delta R.T. -0.00 min

Lab File: BE088212.D

Acq: 24 Oct 2014 14:54

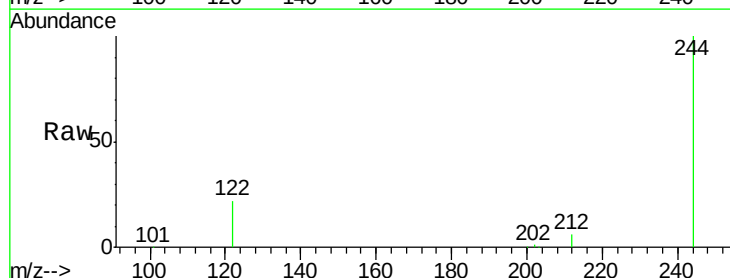
Tgt Ion: 244 Resp: 34954

Ion Ratio Lower Upper

244 100

212 6.5 5.4 8.2

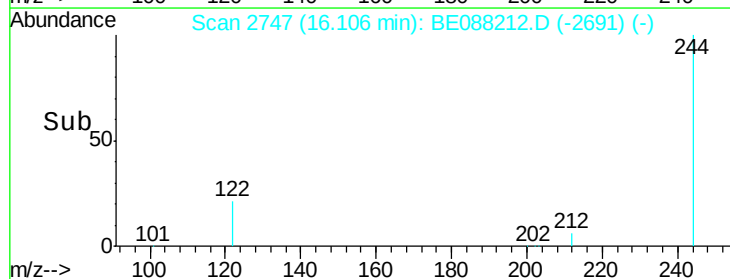
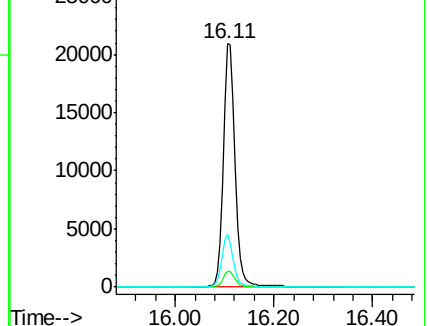
122 21.5 16.7 25.1

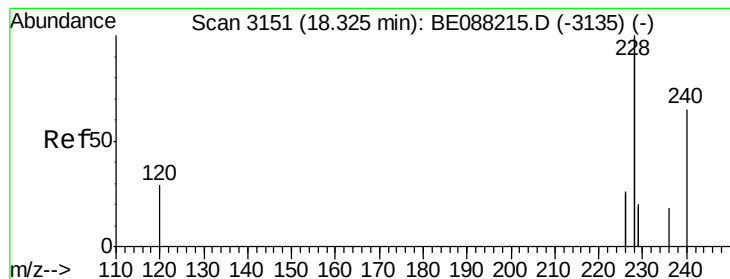


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#19

Benzo(a)anthracene

Concen: 2.08 ng

RT: 18.33 min Scan# 3152

Delta R.T. 0.00 min

Lab File: BE088212.D

Acq: 24 Oct 2014 14:54

Instrument :

BNA_E

ClientSampleId :

SSTDICC002

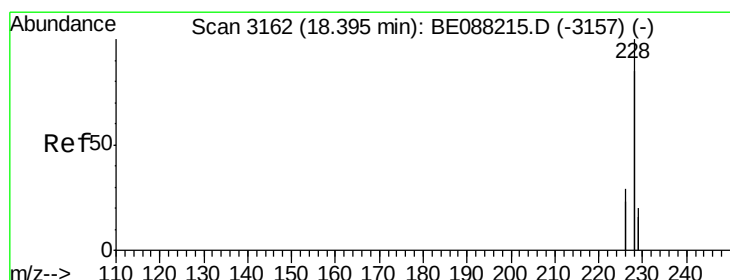
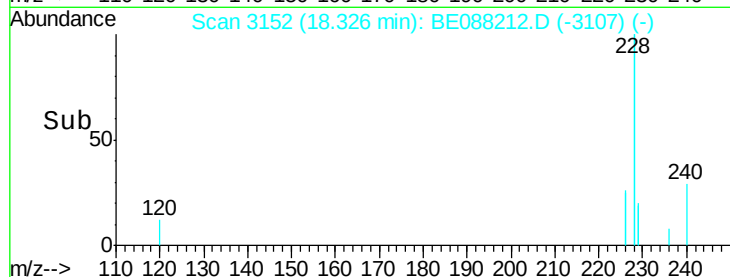
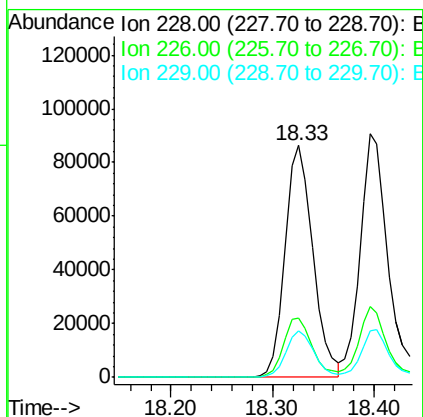
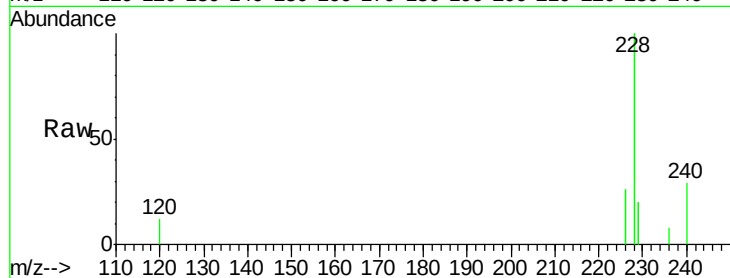
Tgt Ion:228 Resp: 161265

Ion Ratio Lower Upper

228 100

226 25.7 20.5 30.7

229 19.8 16.1 24.1



#20

Chrysene

Concen: 2.03 ng

RT: 18.40 min Scan# 3163

Delta R.T. 0.00 min

Lab File: BE088212.D

Acq: 24 Oct 2014 14:54

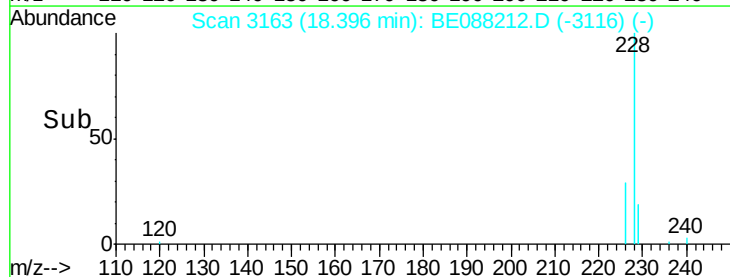
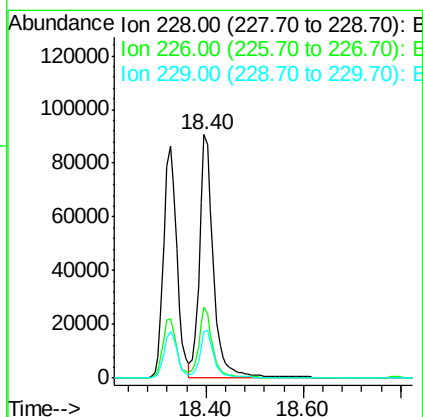
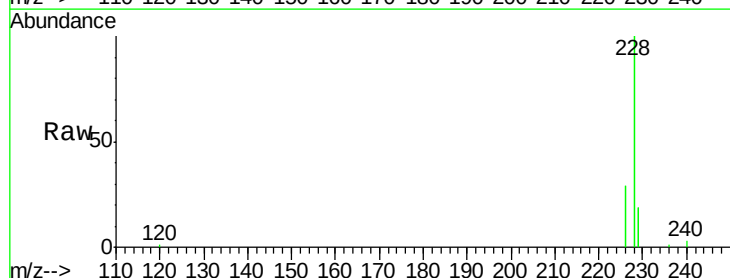
Tgt Ion:228 Resp: 178587

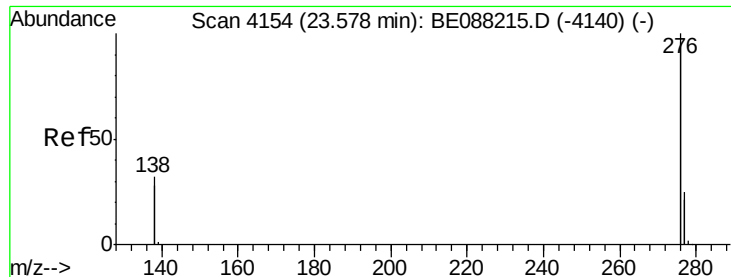
Ion Ratio Lower Upper

228 100

226 29.1 23.3 34.9

229 19.0 15.6 23.4





#21

Indeno(1,2,3-cd)pyrene

Concen: 1.28 ng

RT: 23.58 min Scan# 4155

Delta R.T. -0.00 min

Lab File: BE088212.D

Acq: 24 Oct 2014 14:54

Instrument :

BNA_E

ClientSampleId :

SSTDICC002

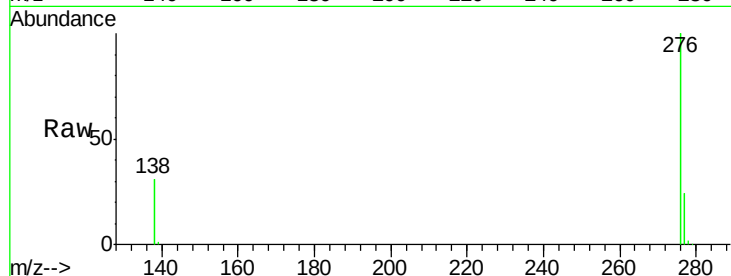
Tgt Ion: 276 Resp: 99569

Ion Ratio Lower Upper

276 100

138 30.2 13.9 20.9#

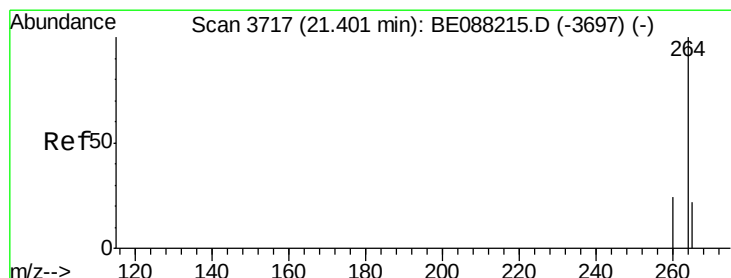
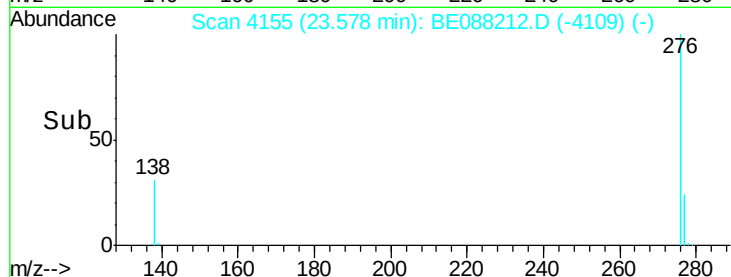
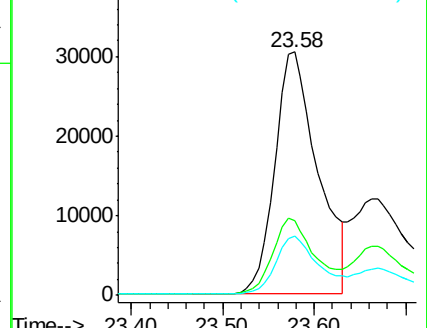
277 24.5 10.7 16.1#



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



#22

Perylene-d12

Concen: 5.00 ng

RT: 21.40 min Scan# 3718

Delta R.T. 0.00 min

Lab File: BE088212.D

Acq: 24 Oct 2014 14:54

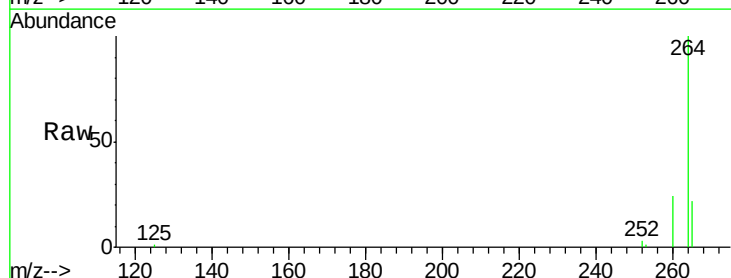
Tgt Ion: 264 Resp: 87841

Ion Ratio Lower Upper

264 100

260 23.7 19.0 28.4

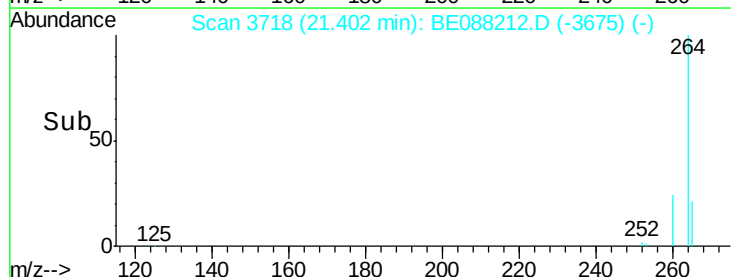
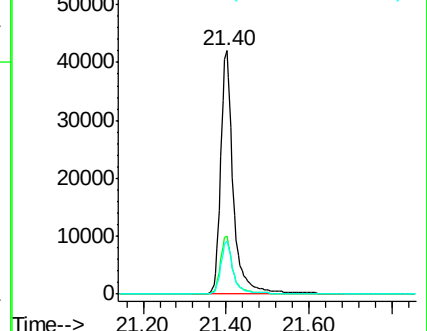
265 21.6 17.4 26.2

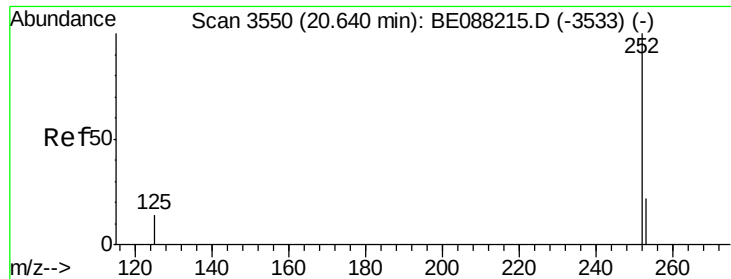


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





#23

Benzo(b)fluoranthene

Concen: 2.37 ng

RT: 20.64 min Scan# 3551

Delta R.T. 0.00 min

Lab File: BE088212.D

Acq: 24 Oct 2014 14:54

Instrument :

BNA_E

ClientSampleId :

SSTDICC002

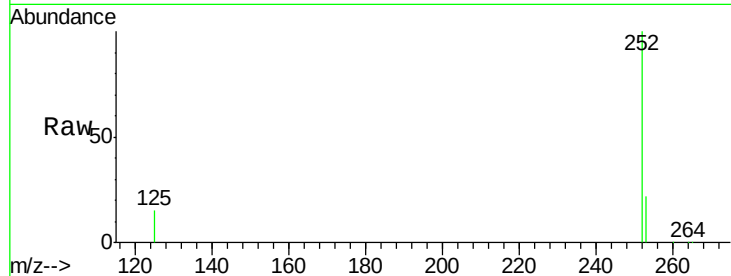
Tgt Ion:252 Resp: 34063

Ion Ratio Lower Upper

252 100

253 21.7 17.9 26.9

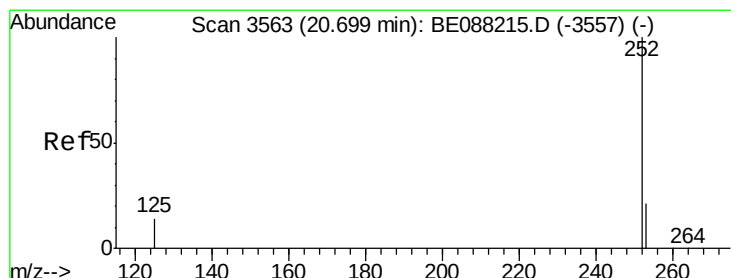
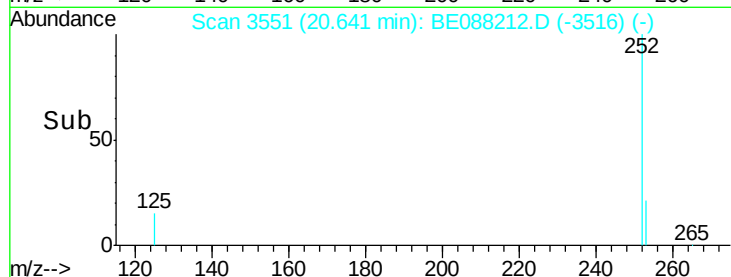
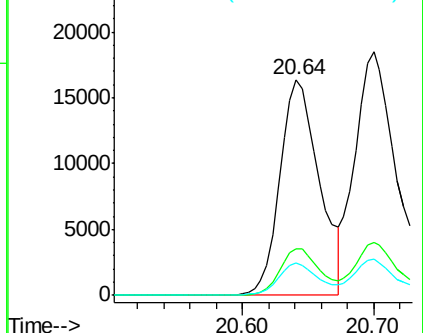
125 15.0 12.2 18.2



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: 2.09 ng

RT: 20.70 min Scan# 3564

Delta R.T. 0.00 min

Lab File: BE088212.D

Acq: 24 Oct 2014 14:54

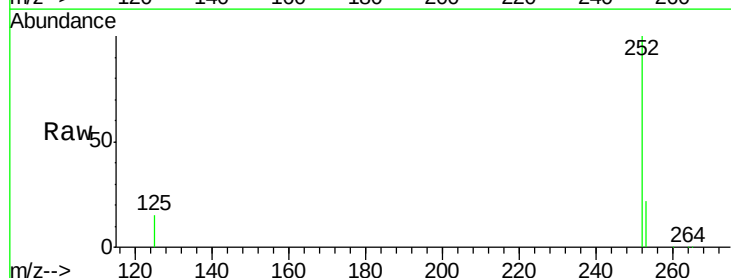
Tgt Ion:252 Resp: 47473

Ion Ratio Lower Upper

252 100

253 21.8 17.6 26.4

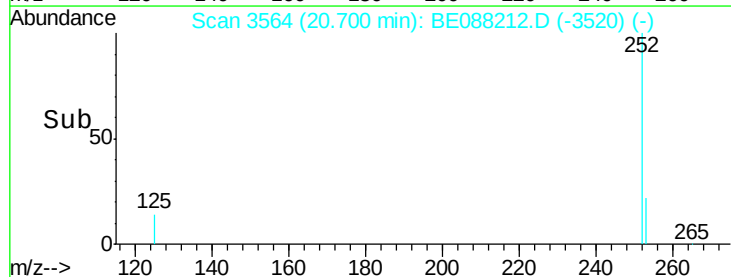
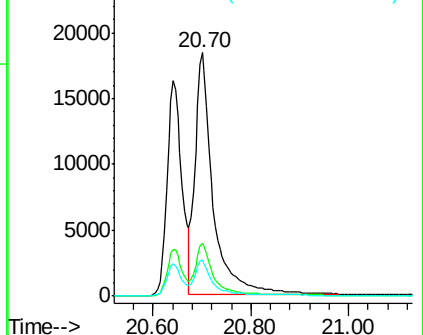
125 14.7 12.1 18.1

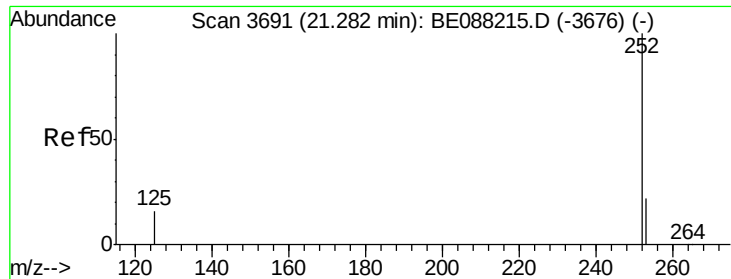


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#25

Benzo(a)pyrene

Concen: 2.35 ng

RT: 21.28 min Scan# 3692

Delta R.T. 0.00 min

Lab File: BE088212.D

Acq: 24 Oct 2014 14:54

Instrument :

BNA_E

ClientSampleId :

SSTDICC002

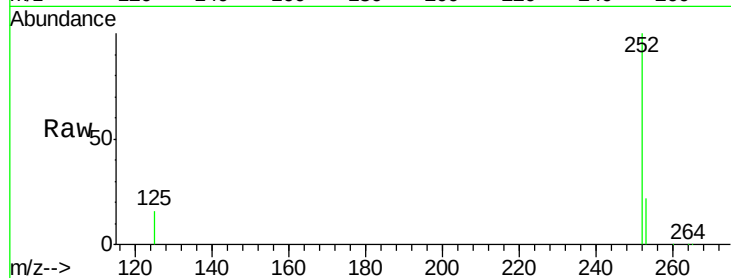
Tgt Ion:252 Resp: 33359

Ion Ratio Lower Upper

252 100

253 21.8 17.8 26.8

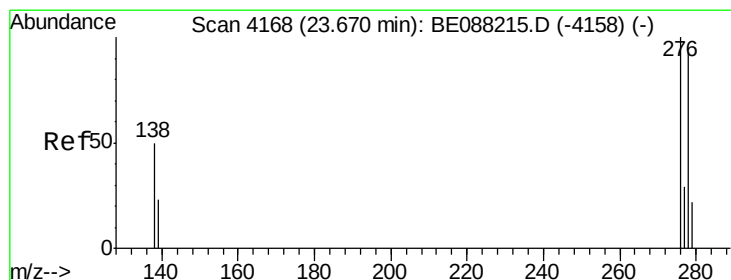
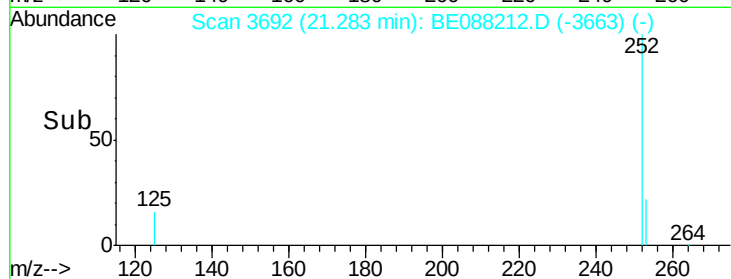
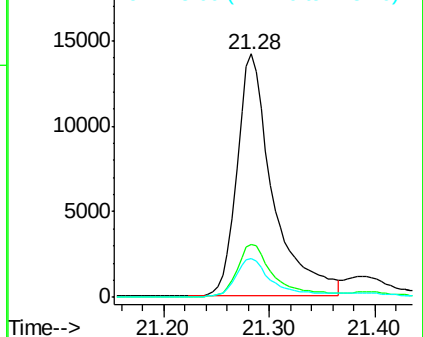
125 16.1 13.5 20.3



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



#26

Dibenzo(a,h)anthracene

Concen: 2.26 ng

RT: 23.68 min Scan# 4170

Delta R.T. 0.01 min

Lab File: BE088212.D

Acq: 24 Oct 2014 14:54

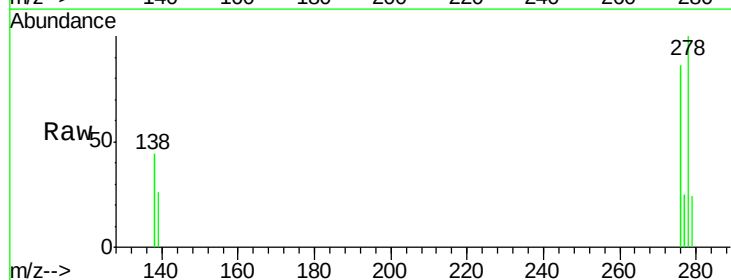
Tgt Ion:278 Resp: 30326

Ion Ratio Lower Upper

278 100

139 25.6 22.1 33.1

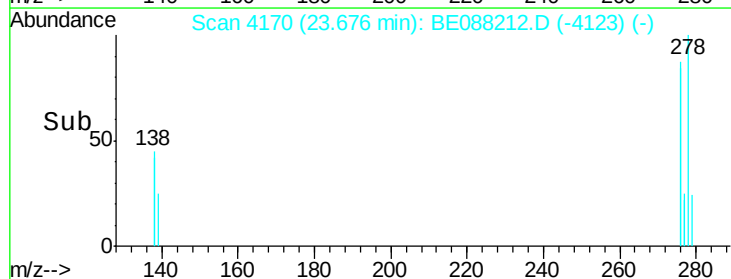
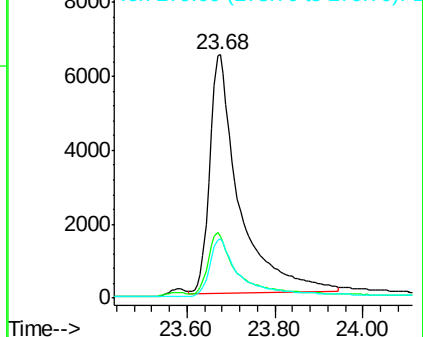
279 24.4 20.2 30.2

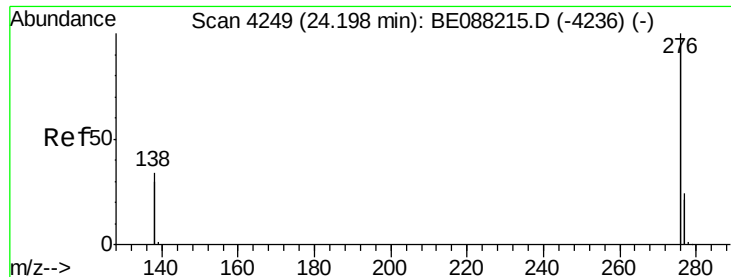


Abundance Ion 278.00 (277.70 to 278.70): E

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: 2.16 ng
 RT: 24.20 min Scan# 4250
 Delta R.T. -0.00 min
 Lab File: BE088212.D
 Acq: 24 Oct 2014 14:54

Instrument :
 BNA_E
 ClientSampleId :
 SSTDICC002

Tgt Ion: 276 Resp: 152272
 Ion Ratio Lower Upper
 276 100
 277 23.8 19.4 29.2
 138 33.8 27.3 40.9

