

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE102414\
 Data File : BE088221.D
 Acq On : 24 Oct 2014 20:03
 Operator : TP/JJ
 Sample : F4372-19
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 YS19-EB02-101714-SO

Quant Time: Oct 27 13:13:01 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 13:04:40 2014
 Response via : Initial Calibration

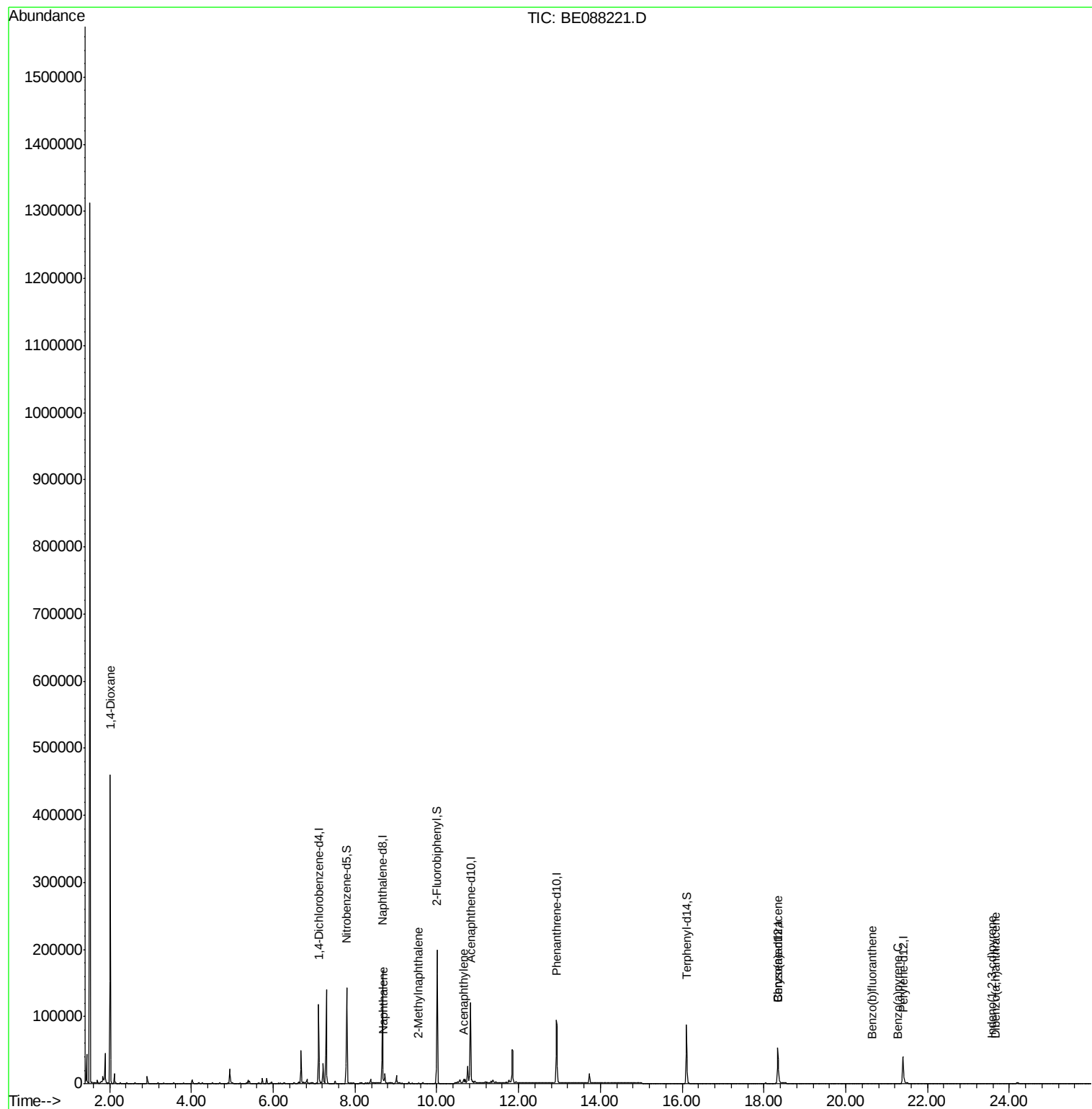
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.11	152	40613	5.00	ng	0.00
3) Naphthalene-d8	8.68	136	154028	5.00	ng	0.00
7) Acenaphthene-d10	10.83	164	74857	5.00	ng	0.00
12) Phenanthrene-d10	12.94	188	129848	5.00	ng	0.00
16) Chrysene-d12	18.34	240	67616	5.00	ng	0.00
22) Perylene-d12	21.40	264	58306	5.00	ng	0.00
System Monitoring Compounds						
4) Nitrobenzene-d5	7.80	82	81386	7.10	ng	0.00
8) 2-Fluorobiphenyl	10.01	172	137230	6.57	ng	0.00
18) Terphenyl-d14	16.11	244	115415	10.42	ng	0.00
Target Compounds						
2) 1,4-Dioxane	2.02	88	14530	2.57	ng	# 1
5) Naphthalene	8.70	128	6271	0.20	ng	# 98
6) 2-Methylnaphthalene	9.55	142	606	0.03	ng	# 90
9) Acenaphthylene	10.66	152	6344	0.06	ng	# 86
19) Benzo(a)anthracene	18.34	228	1287	0.02	ng	# 67
21) Indeno(1,2,3-cd)pyrene	23.57	276	207	0.25	ng	# 82
23) Benzo(b)fluoranthene	20.64	252	135	0.17	ng	# 14
25) Benzo(a)pyrene	21.28	252	67	0.17	ng	# 1
26) Dibenzo(a,h)anthracene	23.66	278	28	0.21	ng	# 1

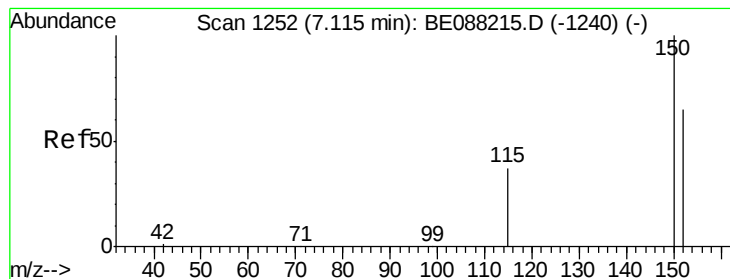
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: BE088221.D

Acq: 24 Oct 2014 20:03

Instrument :

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ClientSampleId :

YS19-EB02-101714-SO

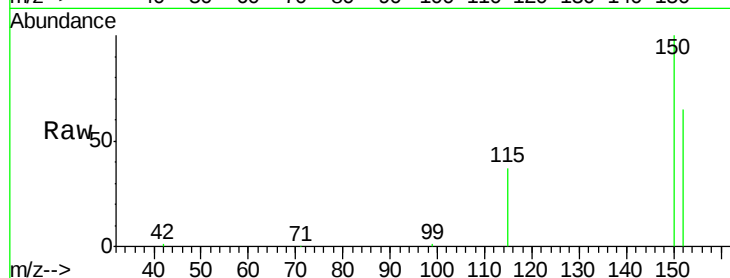
Tgt Ion:152 Resp: 40613

Ion Ratio Lower Upper

152 100

150 154.0 123.2 184.8

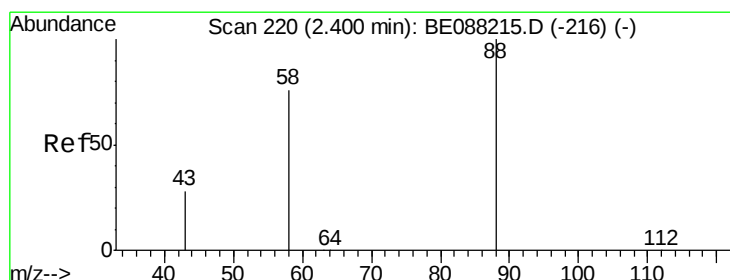
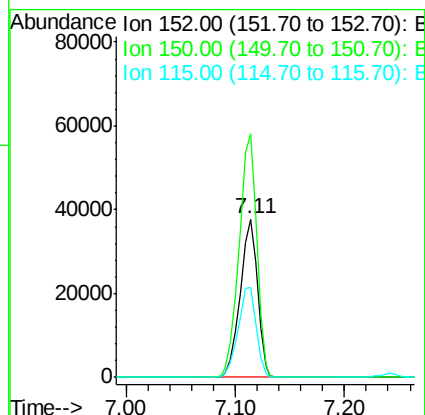
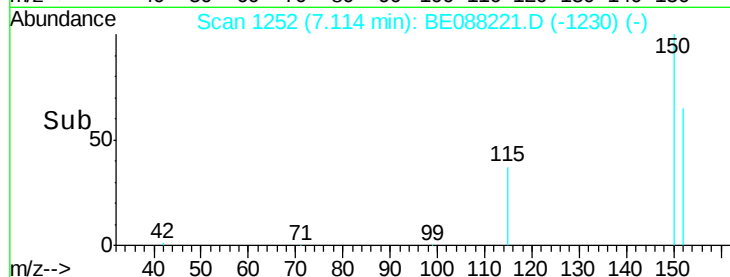
115 56.9 45.3 67.9



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: 2.57 ng

RT: 2.02 min Scan# 137

Delta R.T. -0.38 min

Lab File: BE088221.D

Acq: 24 Oct 2014 20:03

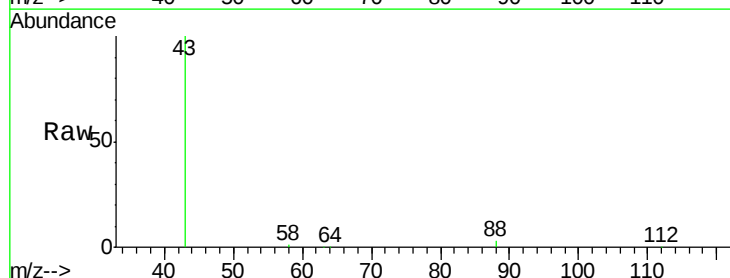
Tgt Ion: 88 Resp: 14530

Ion Ratio Lower Upper

88 100

58 29.2 59.0 88.4#

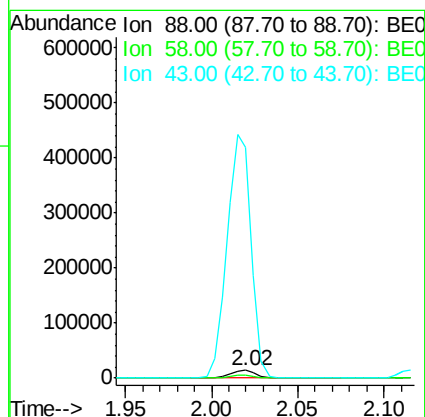
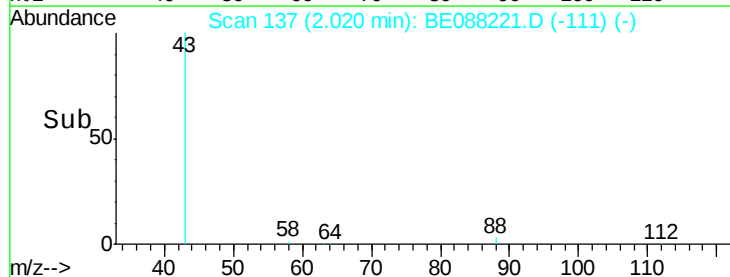
43 2993.9 21.9 32.9#

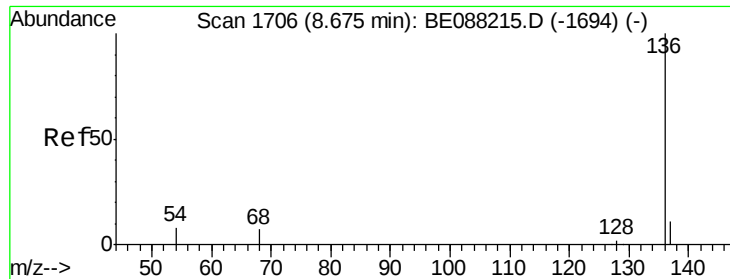


Abundance Ion 88.00 (87.70 to 88.70): BE0

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: BE088221.D

Acq: 24 Oct 2014 20:03

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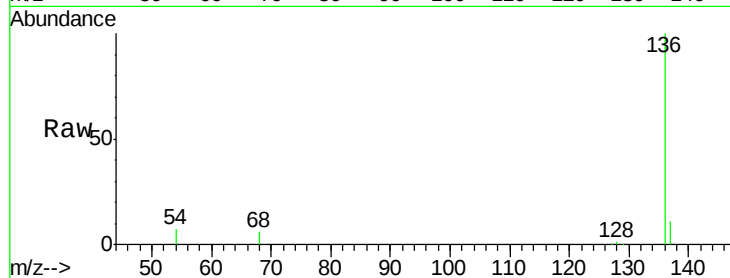
Tgt Ion: 136 Resp: 154028

Ion Ratio Lower Upper

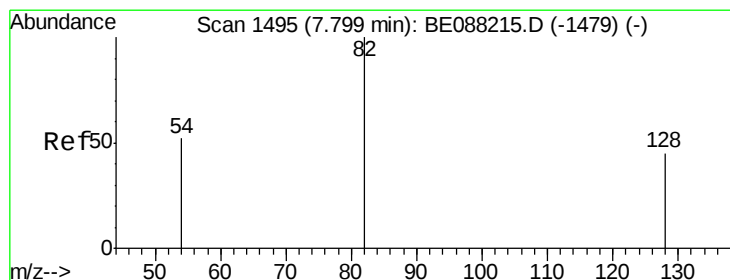
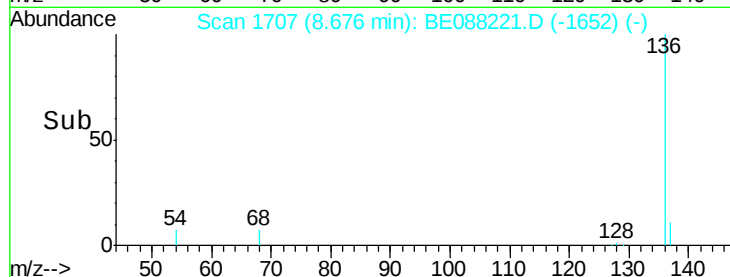
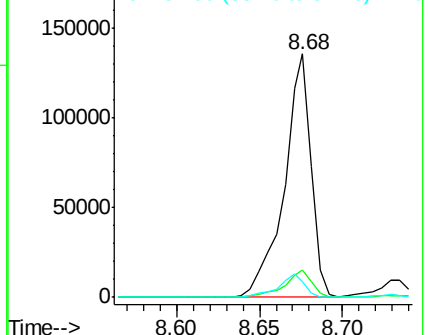
136 100

137 11.2 8.7 13.1

54 6.7 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): E



#4

Nitrobenzene-d5

Concen: 7.10 ng

RT: 7.80 min Scan# 1496

Delta R.T. 0.00 min

Lab File: BE088221.D

Acq: 24 Oct 2014 20:03

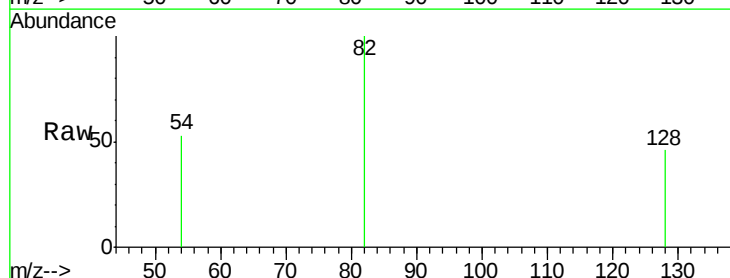
Tgt Ion: 82 Resp: 81386

Ion Ratio Lower Upper

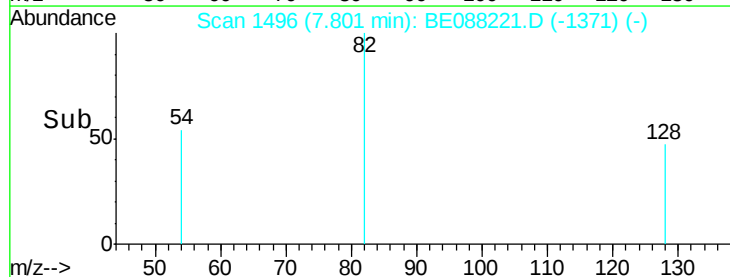
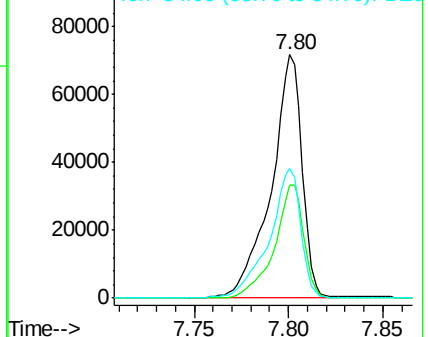
82 100

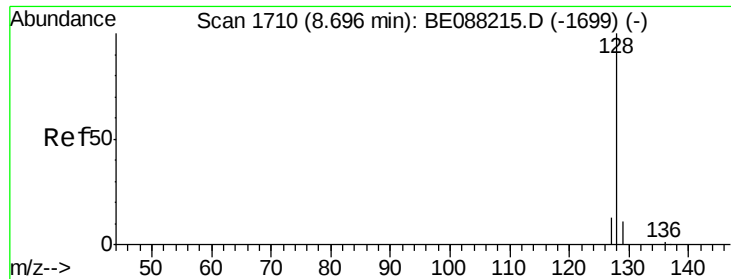
128 46.3 36.2 54.2

54 53.3 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: 0.20 ng

RT: 8.70 min Scan# 1711

Delta R.T. 0.00 min

Lab File: BE088221.D

Acq: 24 Oct 2014 20:03

Instrument :

BNA_E

ClientSampleId :

YS19-EB02-101714-SO

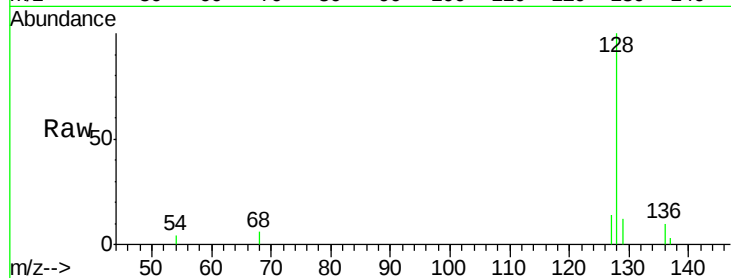
Tgt Ion:128 Resp: 6271

Ion Ratio Lower Upper

128 100

129 11.7 8.6 12.8

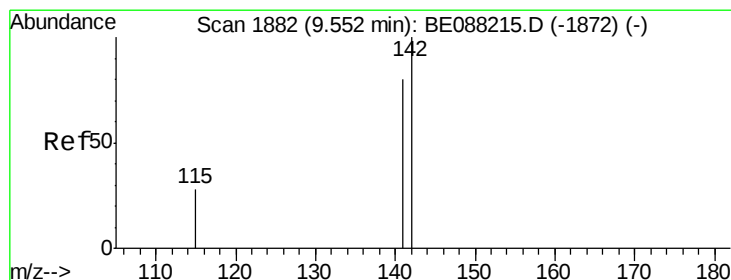
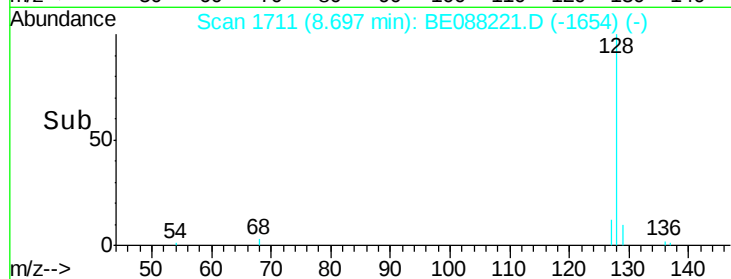
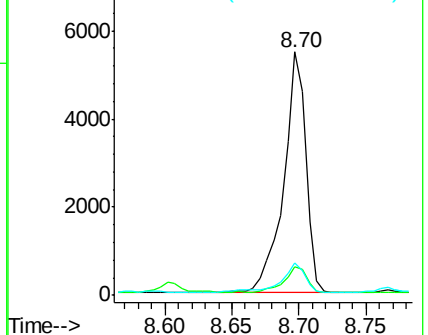
127 13.6 10.4 15.6



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: 0.03 ng

RT: 9.55 min Scan# 1883

Delta R.T. -0.00 min

Lab File: BE088221.D

Acq: 24 Oct 2014 20:03

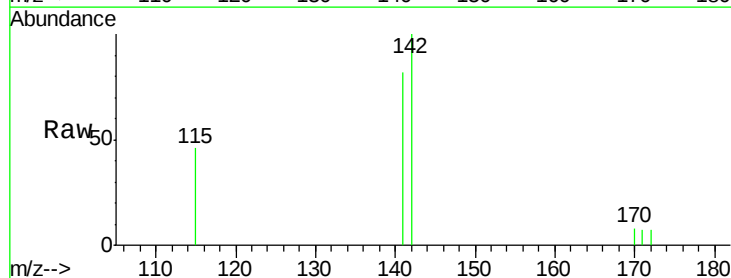
Tgt Ion:142 Resp: 606

Ion Ratio Lower Upper

142 100

141 81.6 63.7 95.5

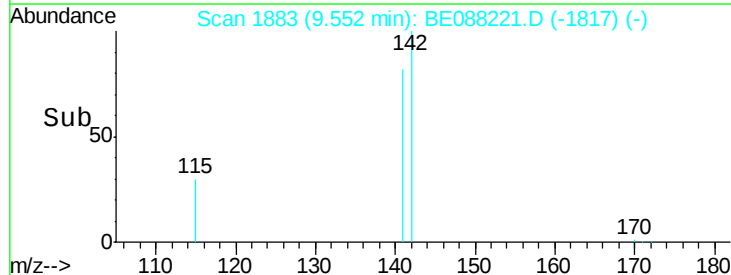
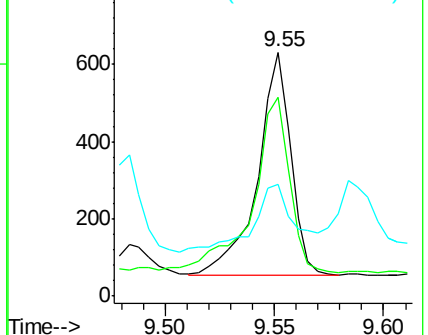
115 45.8 22.6 34.0#

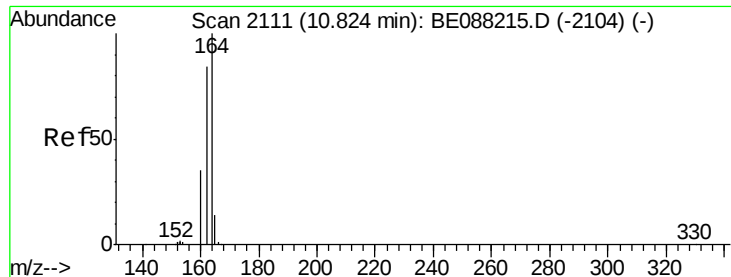


Abundance Ion 142.00 (141.70 to 142.70): E

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: BE088221.D

Acq: 24 Oct 2014 20:03

Instrument :

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ClientSampleId :

YS19-EB02-101714-SO

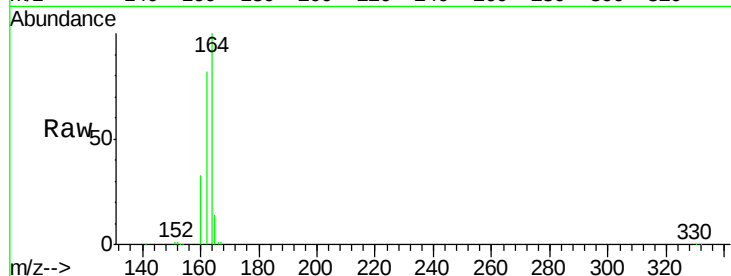
Tgt Ion:164 Resp: 74857

Ion Ratio Lower Upper

164 100

162 81.9 67.4 101.0

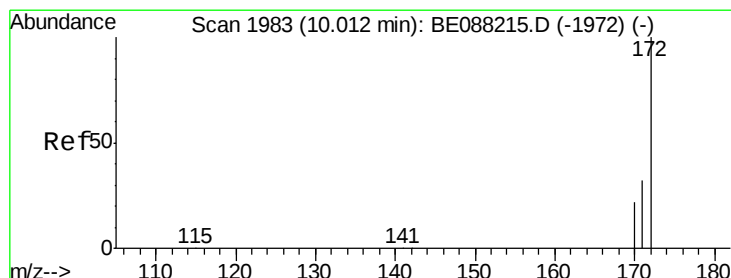
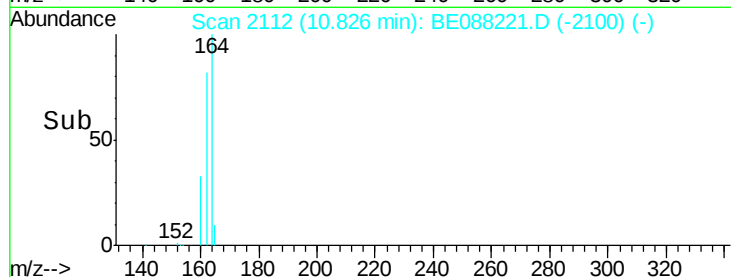
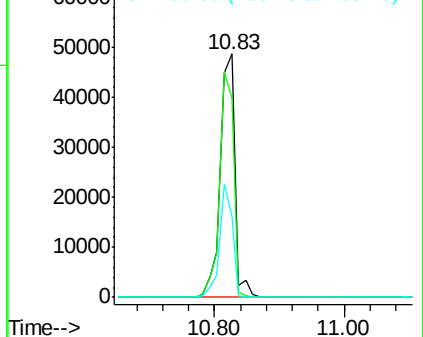
160 33.0 27.7 41.5



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: 6.57 ng

RT: 10.01 min Scan# 1984

Delta R.T. -0.00 min

Lab File: BE088221.D

Acq: 24 Oct 2014 20:03

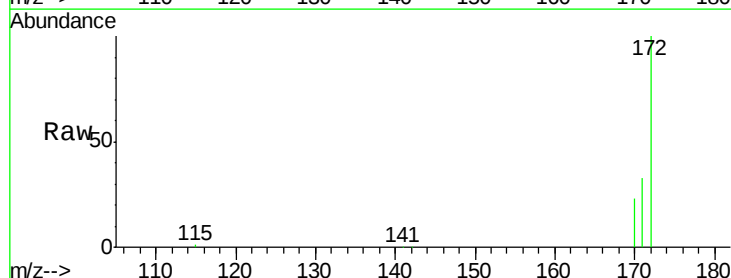
Tgt Ion:172 Resp: 137230

Ion Ratio Lower Upper

172 100

171 32.8 25.8 38.6

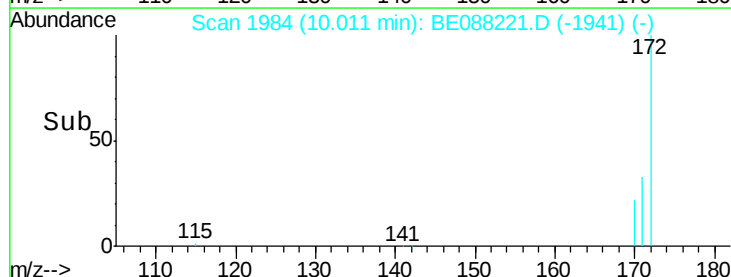
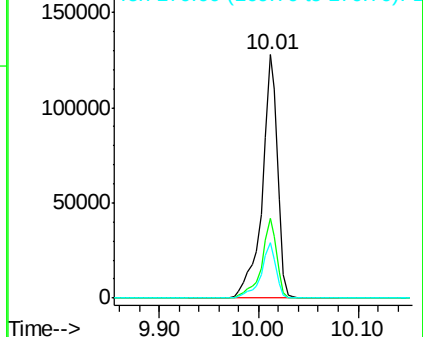
170 22.5 17.4 26.0

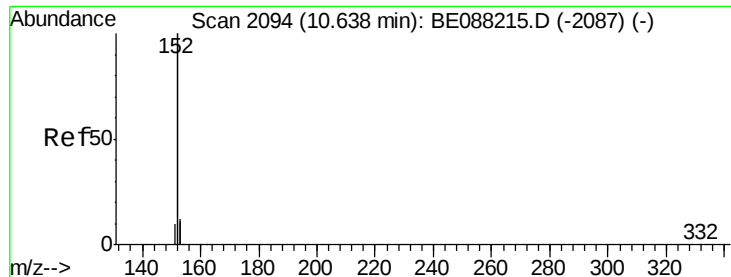


Abundance Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E





#9

Acenaphthylene

Concen: 0.06 ng

RT: 10.66 min Scan# 2097

Delta R.T. 0.02 min

Lab File: BE088221.D

Acq: 24 Oct 2014 20:03

Instrument :

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ClientSampleId :

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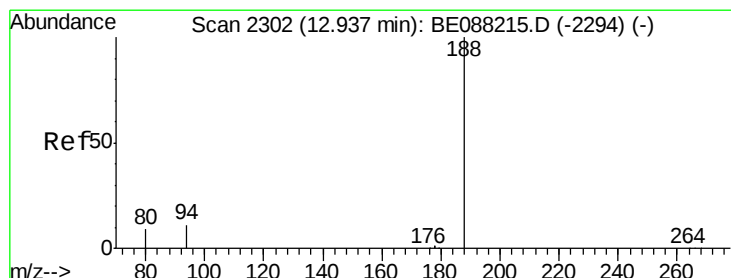
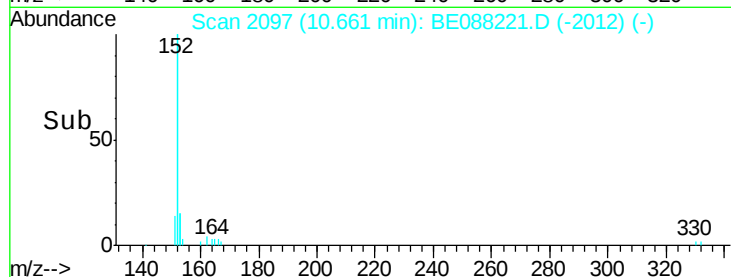
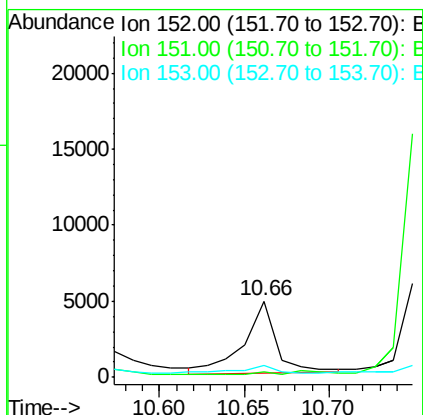
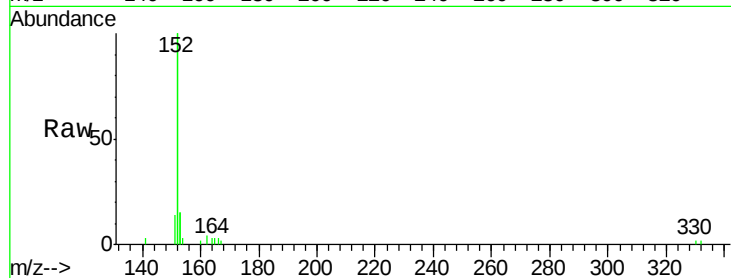
Tgt Ion:152 Resp: 6344

Ion Ratio Lower Upper

152 100

151 0.0 3.7 5.5#

153 18.6 10.3 15.5#



#12

Phenanthrene-d10

Concen: 5.00 ng

RT: 12.94 min Scan# 2303

Delta R.T. -0.00 min

Lab File: BE088221.D

Acq: 24 Oct 2014 20:03

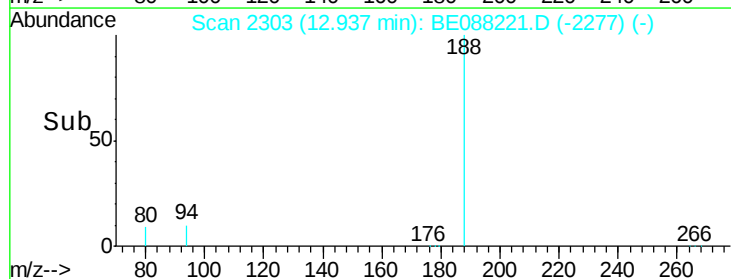
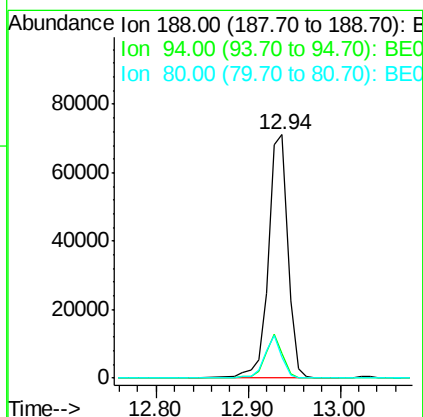
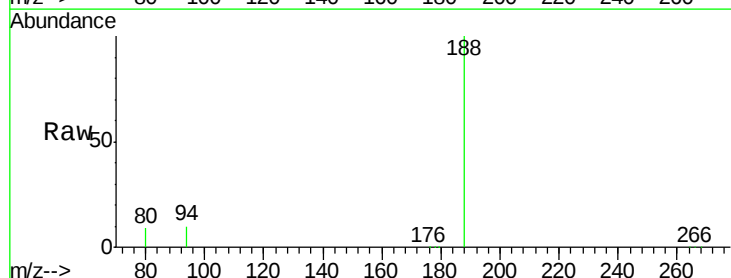
Tgt Ion:188 Resp: 129848

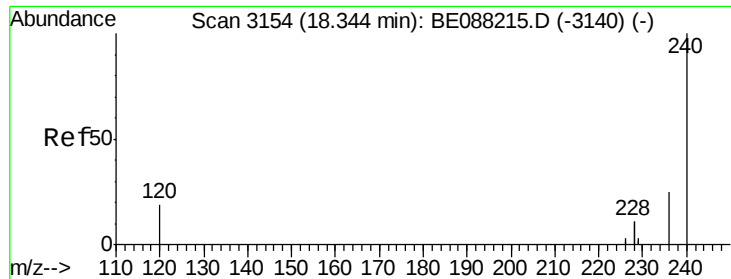
Ion Ratio Lower Upper

188 100

94 10.3 8.5 12.7

80 8.8 7.4 11.0





#16

Chrysene-d12

Concen: 5.00 ng

RT: 18.34 min Scan# 3154

Delta R.T. -0.01 min

Lab File: BE088221.D

Acq: 24 Oct 2014 20:03

Instrument :

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ClientSampleId :

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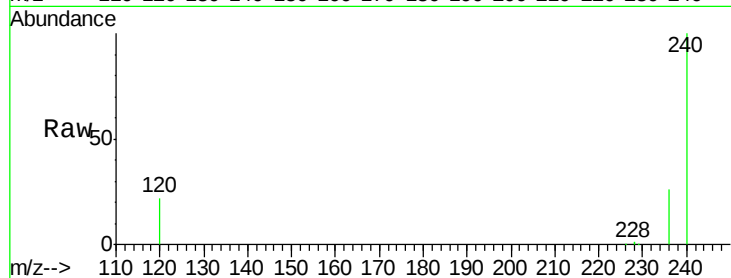
Tgt Ion:240 Resp: 67616

Ion Ratio Lower Upper

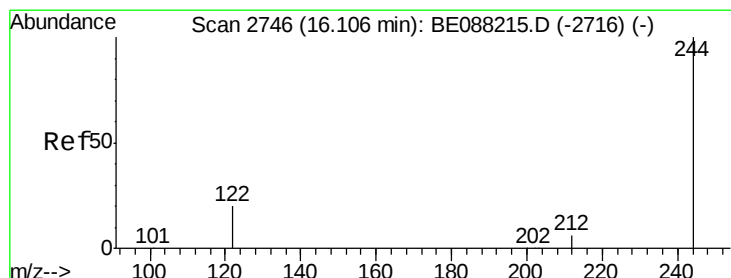
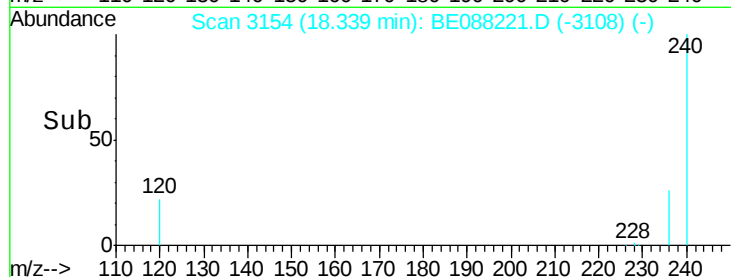
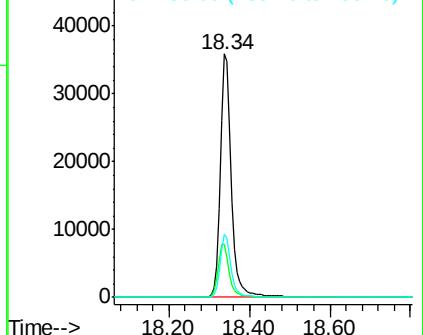
240 100

120 21.9 15.1 22.7

236 25.9 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



#18

Terphenyl-d14

Concen: 10.42 ng

RT: 16.11 min Scan# 2748

Delta R.T. 0.01 min

Lab File: BE088221.D

Acq: 24 Oct 2014 20:03

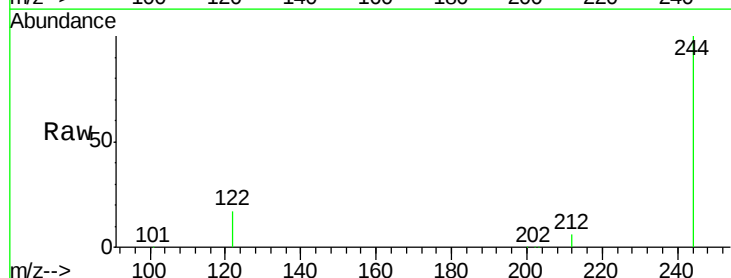
Tgt Ion:244 Resp: 115415

Ion Ratio Lower Upper

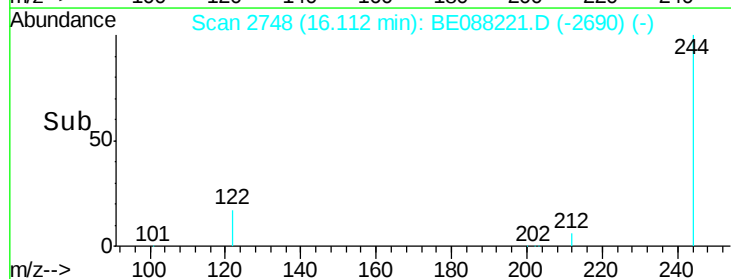
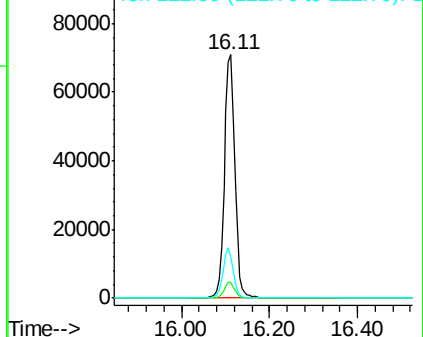
244 100

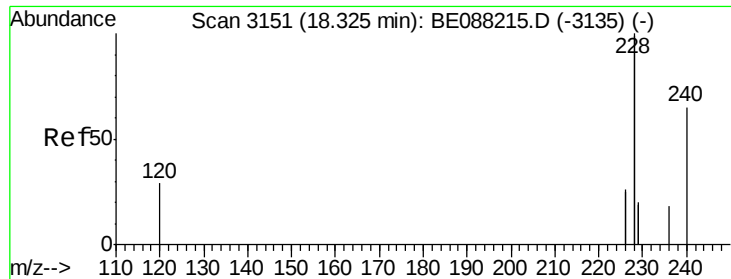
212 6.4 5.4 8.2

122 17.0 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: 0.02 ng

RT: 18.34 min Scan# 3154

Delta R.T. 0.01 min

Lab File: BE088221.D

Acq: 24 Oct 2014 20:03

Instrument :

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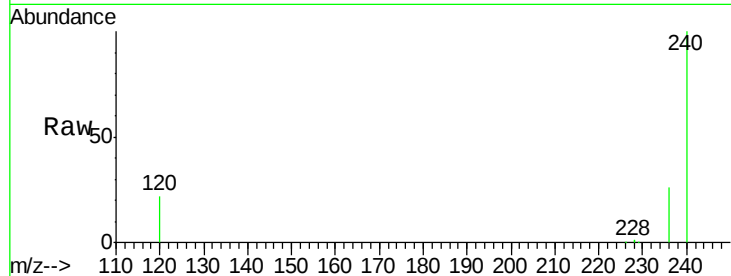
Tgt Ion:228 Resp: 1287

Ion Ratio Lower Upper

228 100

226 34.4 20.5 30.7#

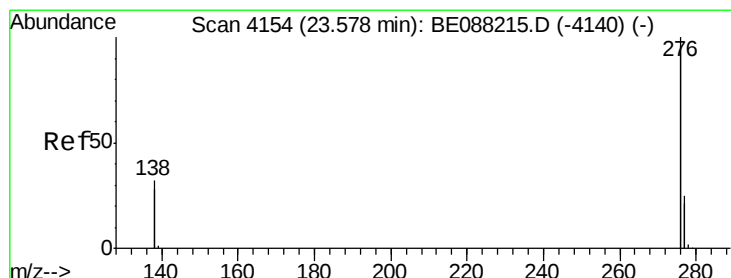
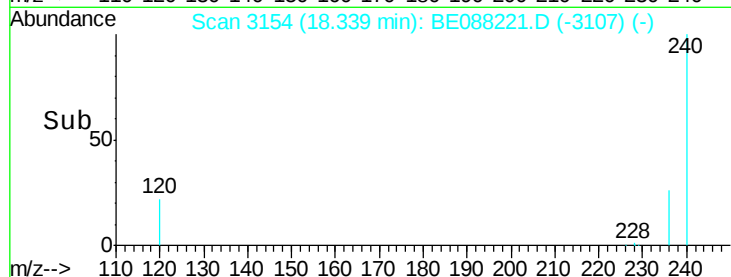
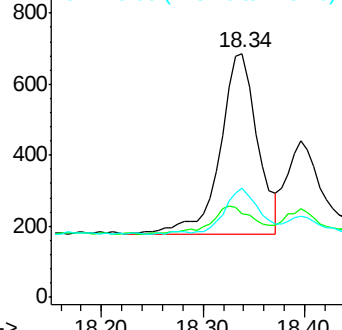
229 44.9 16.1 24.1#



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: 0.25 ng

RT: 23.57 min Scan# 4153

Delta R.T. -0.01 min

Lab File: BE088221.D

Acq: 24 Oct 2014 20:03

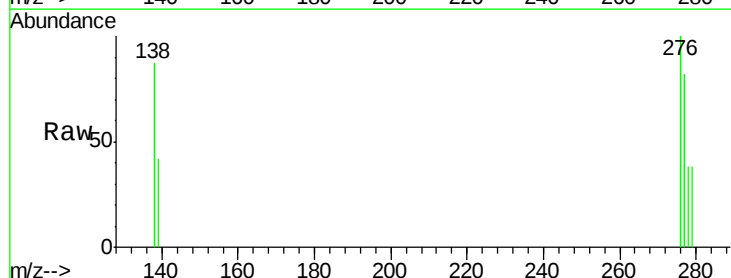
Tgt Ion:276 Resp: 207

Ion Ratio Lower Upper

276 100

138 30.4 13.9 20.9#

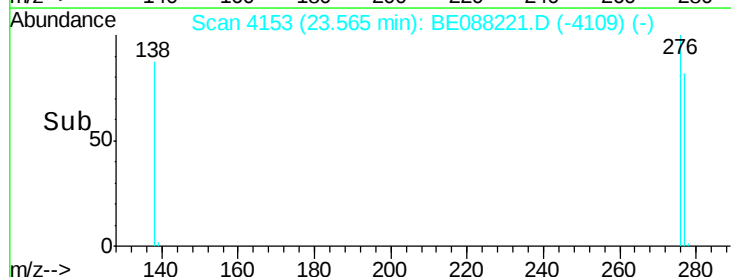
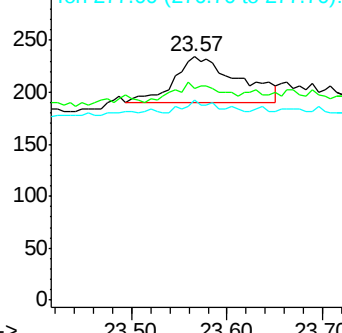
277 12.6 10.7 16.1

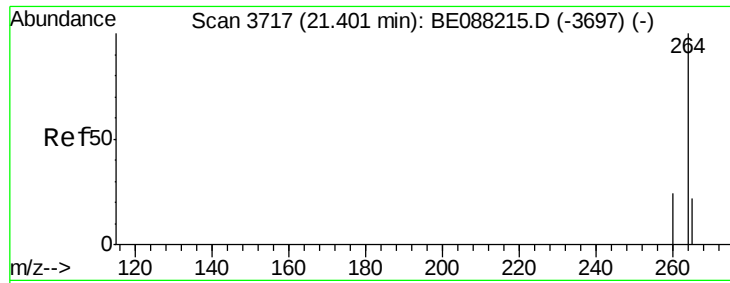


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

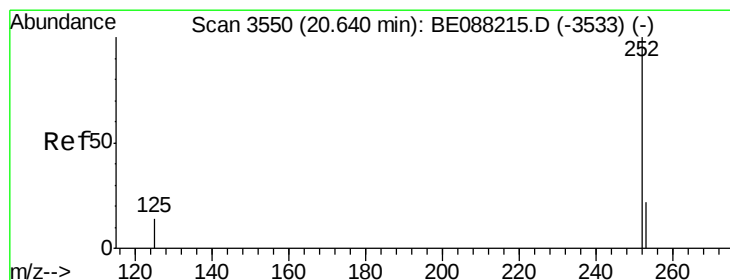
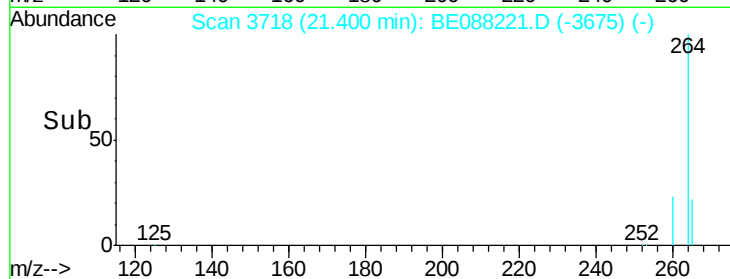
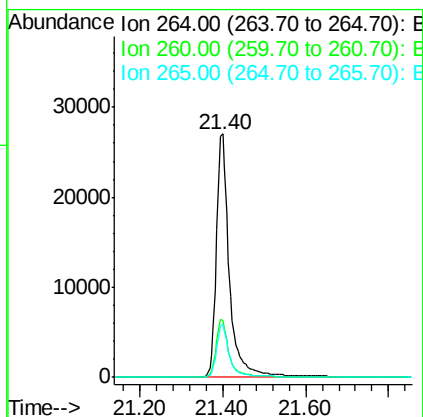
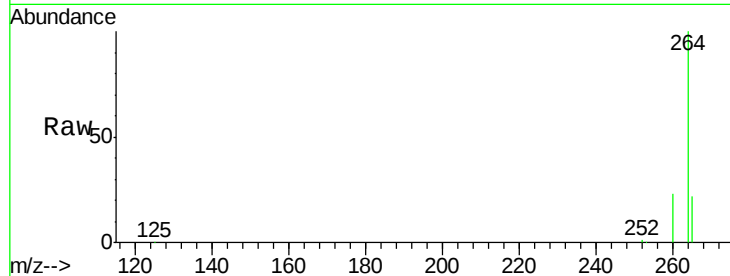




#22
 Perylene-d12
 Concen: 5.00 ng
 RT: 21.40 min Scan# 3718
 Delta R.T. -0.00 min
 Lab File: BE088221.D
 Acq: 24 Oct 2014 20:03

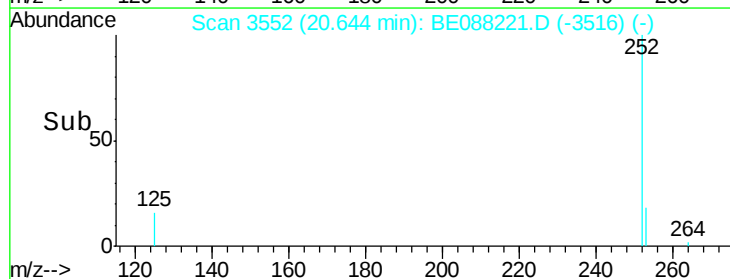
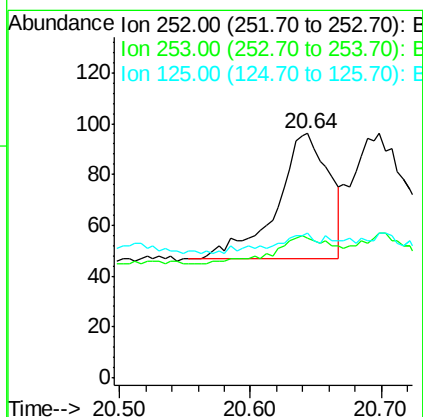
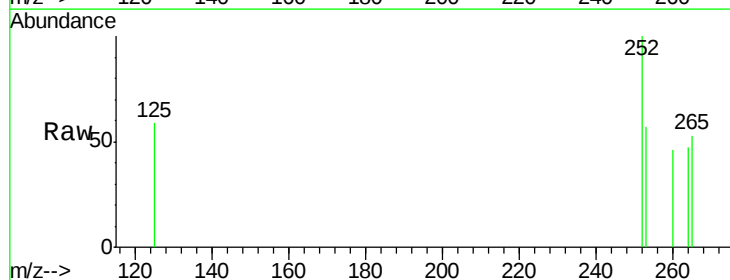
Instrument :
 BNA_E
 ClientSampleId :
 YS19-EB02-101714-SO

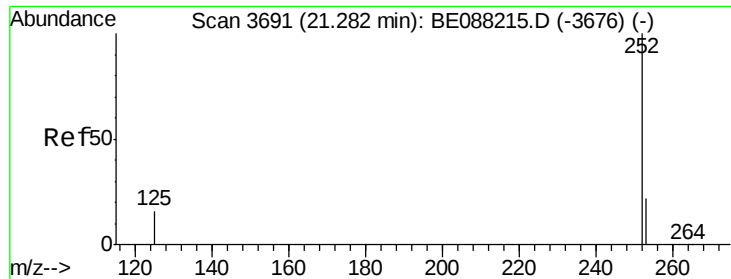
Tgt Ion: 264 Resp: 58306
 Ion Ratio Lower Upper
 264 100
 260 23.4 19.0 28.4
 265 21.7 17.4 26.2



#23
 Benzo(b)fluoranthene
 Concen: 0.17 ng
 RT: 20.64 min Scan# 3552
 Delta R.T. 0.00 min
 Lab File: BE088221.D
 Acq: 24 Oct 2014 20:03

Tgt Ion: 252 Resp: 135
 Ion Ratio Lower Upper
 252 100
 253 57.3 17.9 26.9#
 125 59.4 12.2 18.2#





#25

Benzo(a)pyrene

Concen: 0.17 ng

RT: 21.28 min Scan# 3691

Delta R.T. -0.00 min

Lab File: BE088221.D

Acq: 24 Oct 2014 20:03

Instrument :

BNA_E

ClientSampleId :

YS19-EB02-101714-SO

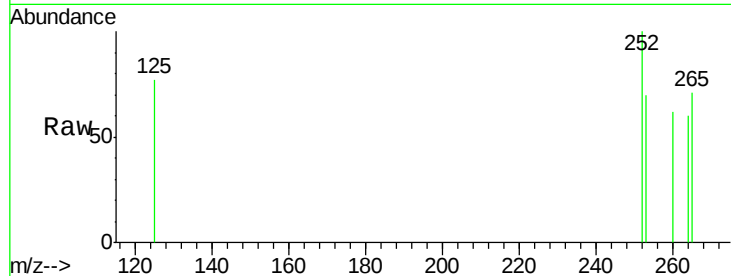
Tgt Ion: 252 Resp: 67

Ion Ratio Lower Upper

252 100

253 69.9 17.8 26.8#

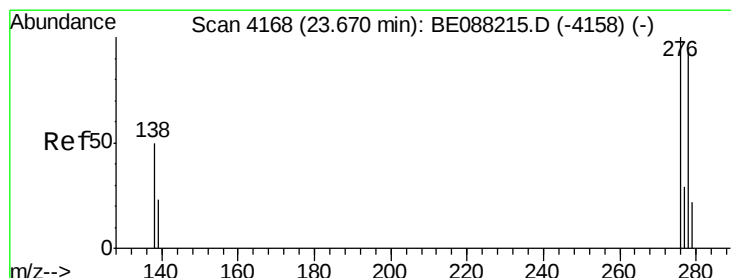
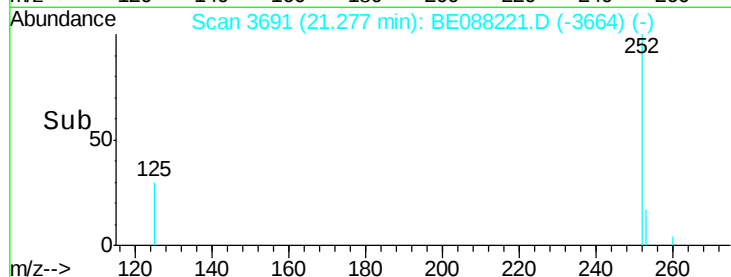
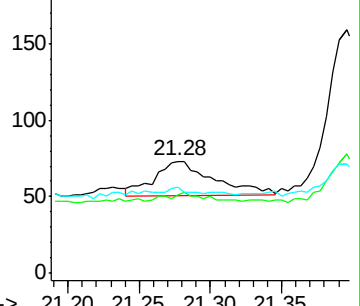
125 76.7 13.5 20.3#



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: 0.21 ng

RT: 23.66 min Scan# 4168

Delta R.T. -0.01 min

Lab File: BE088221.D

Acq: 24 Oct 2014 20:03

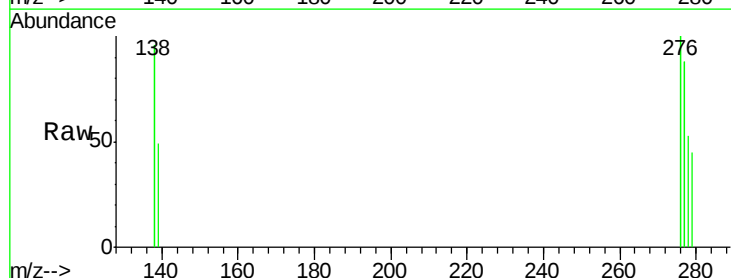
Tgt Ion: 278 Resp: 28

Ion Ratio Lower Upper

278 100

139 91.1 22.1 33.1#

279 83.9 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

