

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE102414\
 Data File : BE088235.D
 Acq On : 25 Oct 2014 6:41
 Operator : TP/JJ
 Sample : F4368-11
 Misc :
 ALS Vial : 27 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 YS19-SS39-1014

Quant Time: Oct 27 13:47:50 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	26642	5.00	ng	0.00
3) Naphthalene-d8	8.68	136	102241	5.00	ng	0.00
7) Acenaphthene-d10	10.82	164	56763	5.00	ng	0.00
12) Phenanthrene-d10	12.94	188	117037	5.00	ng	0.00
16) Chrysene-d12	18.34	240	59724	5.00	ng	0.00
22) Perylene-d12	21.40	264	46698	5.00	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
4) Nitrobenzene-d5	7.81	82	422994	54.73	ng	0.01
8) 2-Fluorobiphenyl	10.02	172	533466	33.70	ng	0.00
18) Terphenyl-d14	16.13	244	485512	49.64	ng	0.02

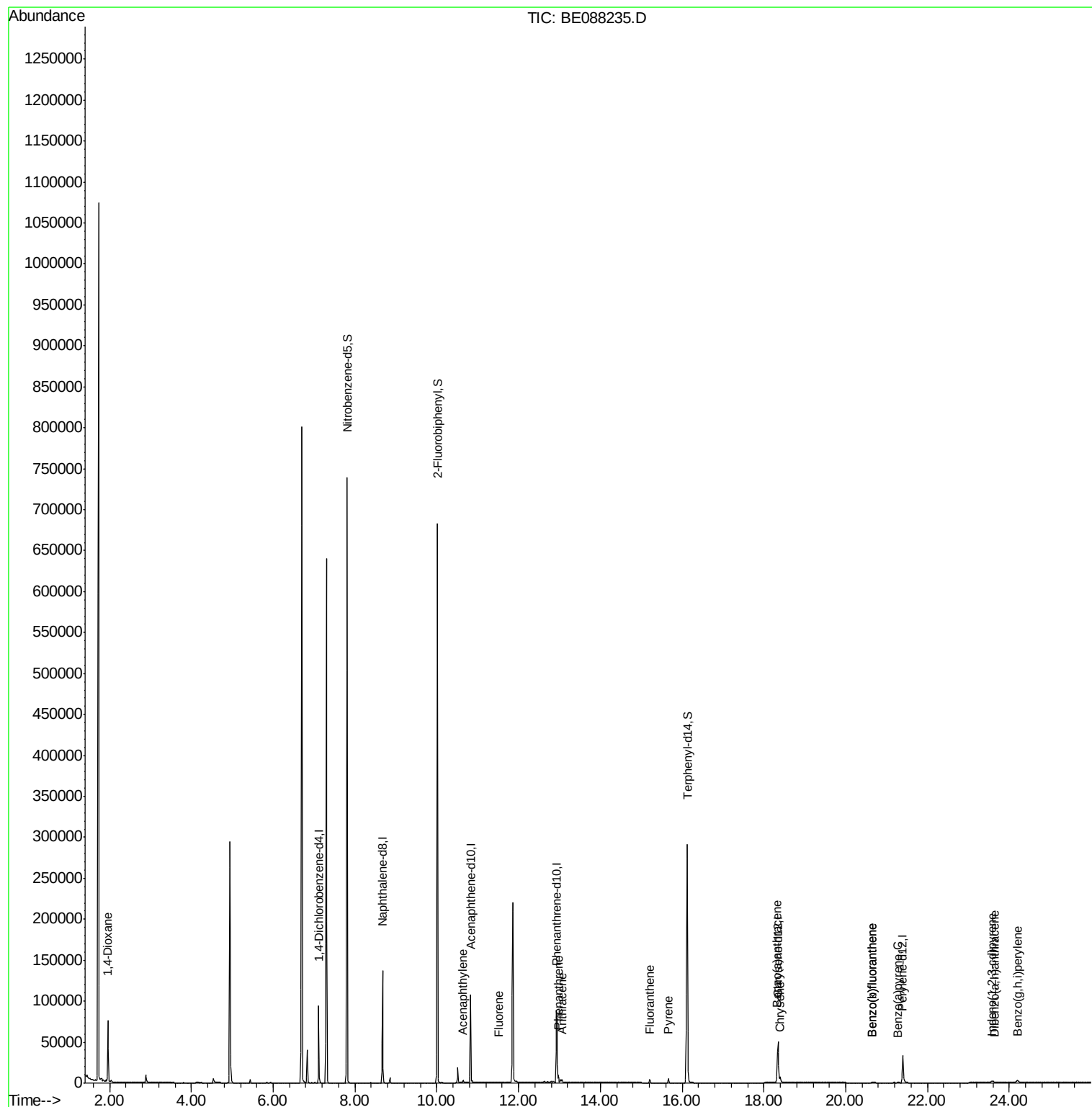
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 1,4-Dioxane	1.96	88	2531	0.68	ng	# 1
9) Acenaphthylene	10.64	152	3483	0.04	ng	# 98
11) Fluorene	11.52	166	368	0.03	ng	# 92
13) Phenanthrene	12.97	178	13209	0.12	ng	# 75
14) Anthracene	13.06	178	4064	0.05	ng	# 81
15) Fluoranthene	15.21	202	4706	0.27	ng	100
17) Pyrene	15.66	202	4604	0.28	ng	97
19) Benzo(a)anthracene	18.32	228	9991	0.21	ng	95
20) Chrysene	18.40	228	10912	0.20	ng	# 94
21) Indeno(1,2,3-cd)pyrene	23.57	276	6918	0.36	ng	# 75
23) Benzo(b)fluoranthene	20.64	252	2858	0.44	ng	# 89
24) Benzo(k)fluoranthene	20.64	252	2858	0.24	ng	# 88
25) Benzo(a)pyrene	21.28	252	1694	0.34	ng	# 85
26) Dibenzo(a,h)anthracene	23.66	278	523	0.26	ng	# 49
27) Benzo(g,h,i)perylene	24.20	276	7257	0.19	ng	# 84

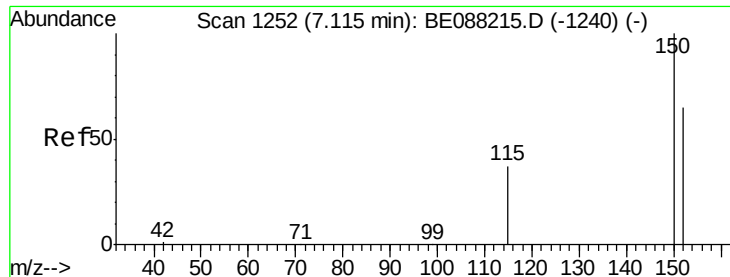
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: BE088235.D

Acq: 25 Oct 2014 6:41

Instrument :

BNA_E

ClientSampleId :

YS19-SS39-1014

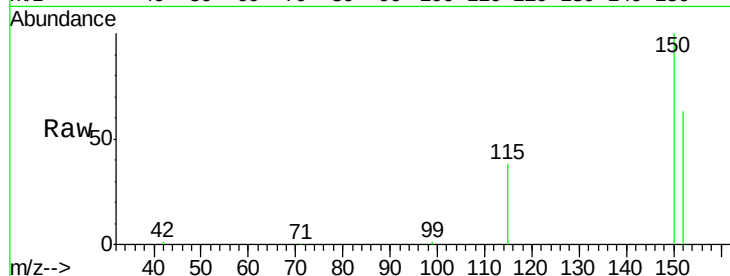
Tgt Ion:152 Resp: 26642

Ion Ratio Lower Upper

152 100

150 159.3 123.2 184.8

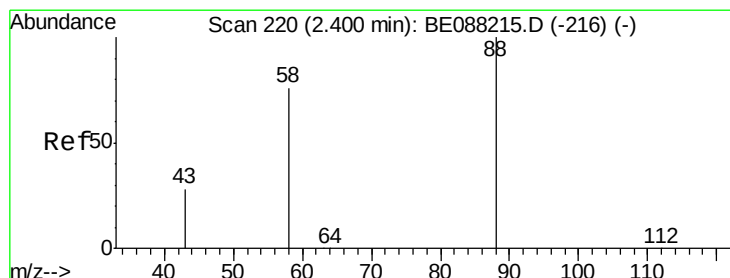
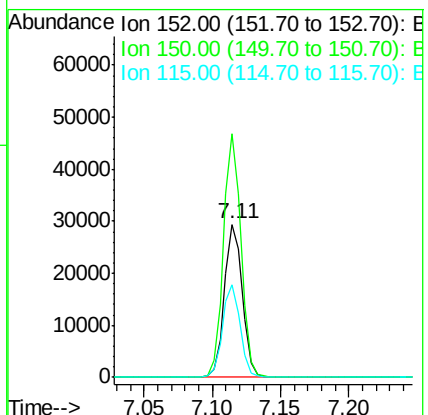
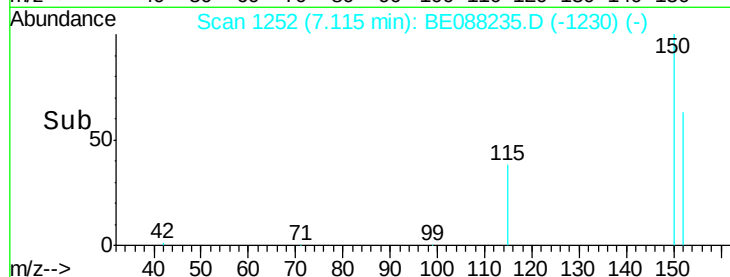
115 60.6 45.3 67.9



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: 0.68 ng

RT: 1.96 min Scan# 124

Delta R.T. -0.44 min

Lab File: BE088235.D

Acq: 25 Oct 2014 6:41

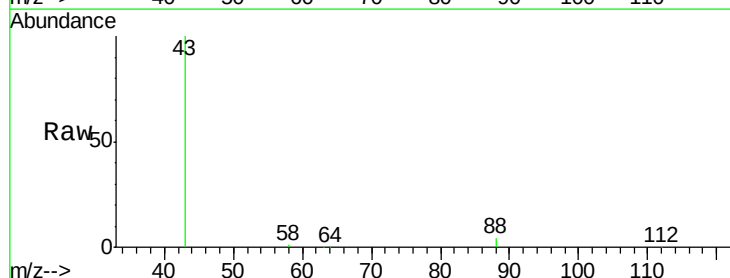
Tgt Ion: 88 Resp: 2531

Ion Ratio Lower Upper

88 100

58 26.1 59.0 88.4#

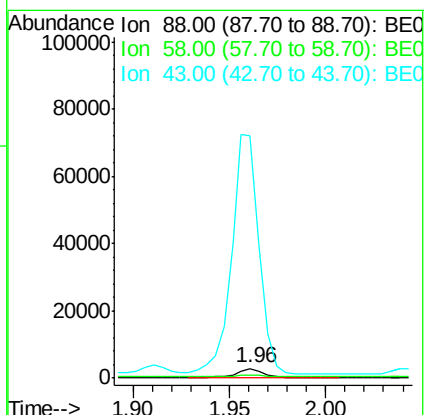
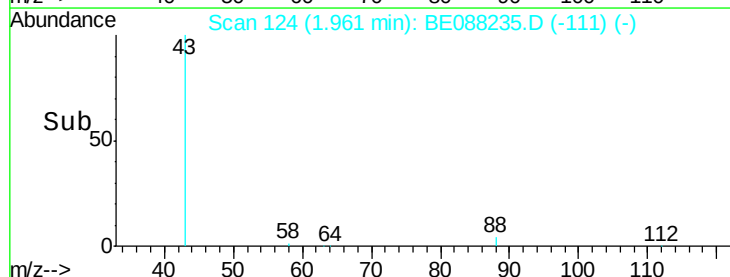
43 2823.8 21.9 32.9#

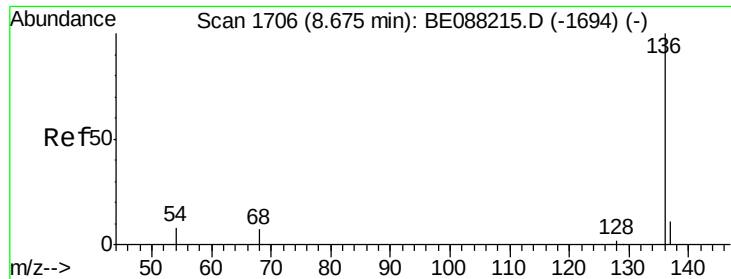


Abundance Ion 88.00 (87.70 to 88.70): BE0

Ion 58.00 (57.70 to 58.70): BE0

Ion 43.00 (42.70 to 43.70): BE0

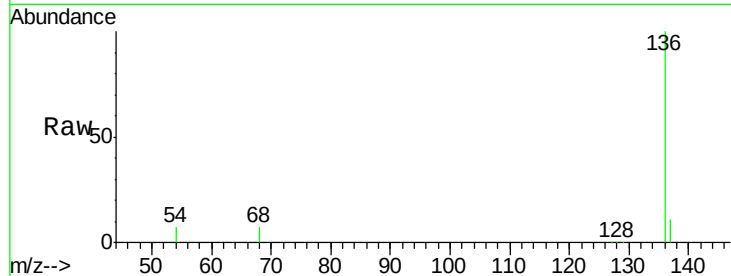




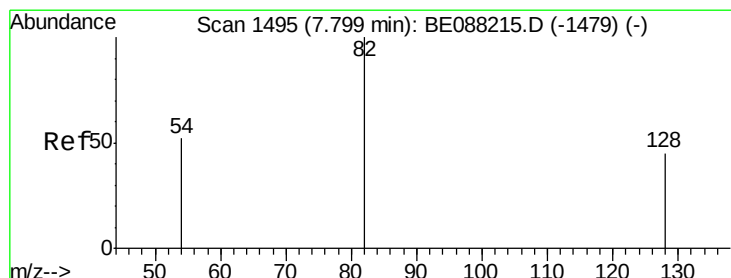
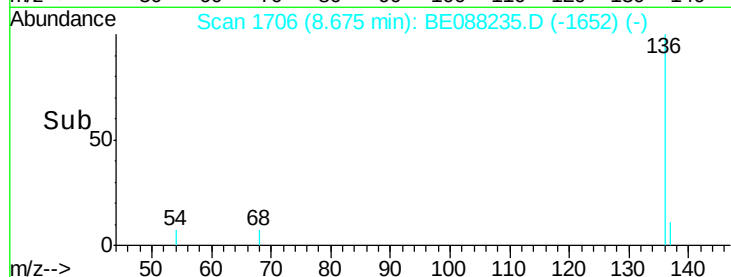
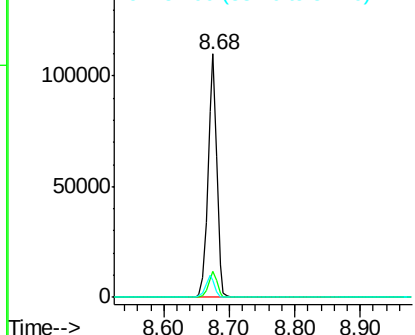
#3
Naphthalene-d8
Concen: 5.00 ng
RT: 8.68 min Scan# 1706
Delta R.T. 0.00 min
Lab File: BE088235.D
Acq: 25 Oct 2014 6:41

Instrument :
BNA_E
ClientSampleId :
YS19-SS39-1014

Tgt Ion: 136 Resp: 102241
Ion Ratio Lower Upper
136 100
137 10.9 8.7 13.1
54 7.1 6.1 9.1

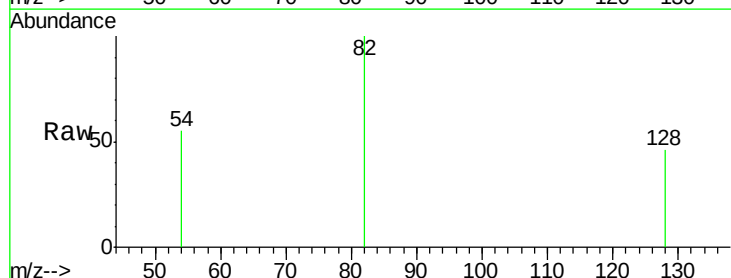


Abundance Ion 136.00 (135.70 to 136.70): E
Ion 137.00 (136.70 to 137.70): E
Ion 54.00 (53.70 to 54.70): BE0

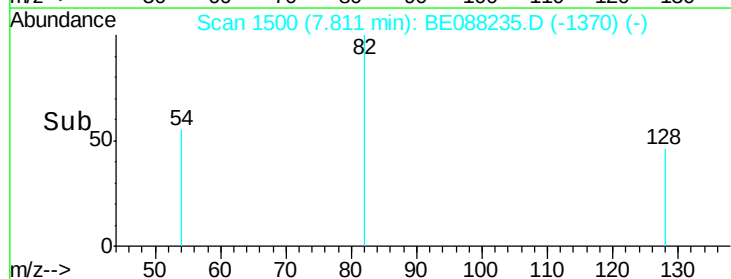
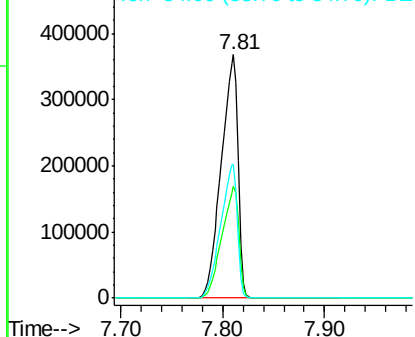


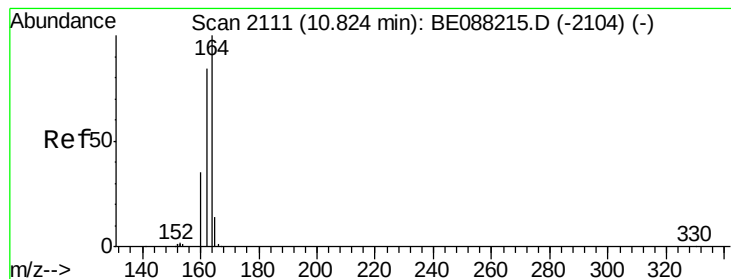
#4
Nitrobenzene-d5
Concen: 54.73 ng
RT: 7.81 min Scan# 1500
Delta R.T. 0.01 min
Lab File: BE088235.D
Acq: 25 Oct 2014 6:41

Tgt Ion: 82 Resp: 422994
Ion Ratio Lower Upper
82 100
128 45.8 36.2 54.2
54 55.1 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





#7

Acenaphthene-d10

Concen: 5.00 ng

RT: 10.82 min Scan# 2111

Delta R.T. 0.00 min

Lab File: BE088235.D

Acq: 25 Oct 2014 6:41

Instrument :

BNA_E

ClientSampleId :

YS19-SS39-1014

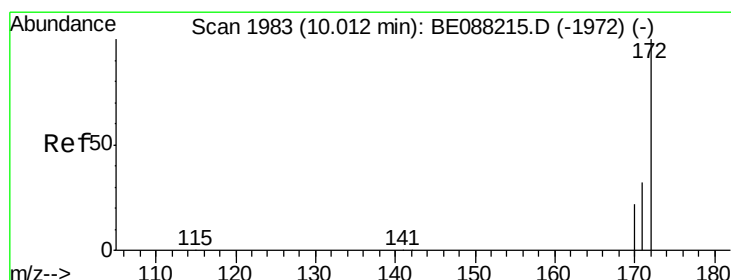
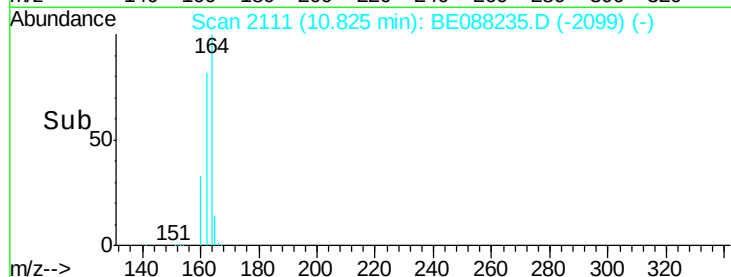
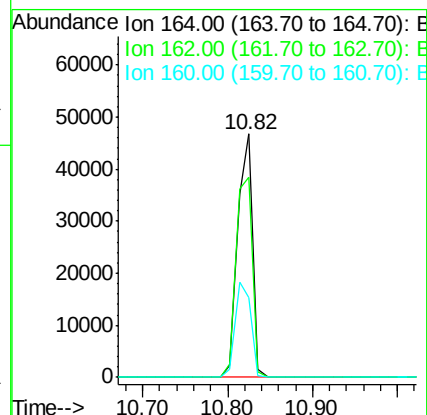
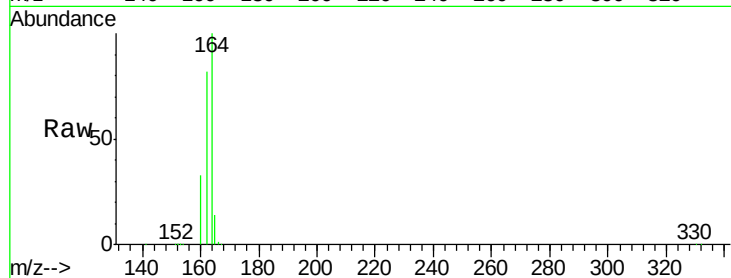
Tgt Ion:164 Resp: 56763

Ion Ratio Lower Upper

164 100

162 82.4 67.4 101.0

160 32.7 27.7 41.5



#8

2-Fluorobiphenyl

Concen: 33.70 ng

RT: 10.02 min Scan# 1985

Delta R.T. 0.01 min

Lab File: BE088235.D

Acq: 25 Oct 2014 6:41

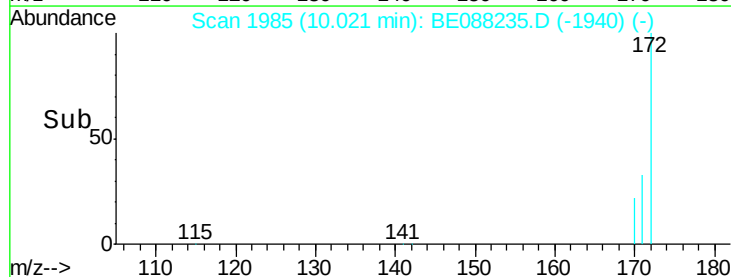
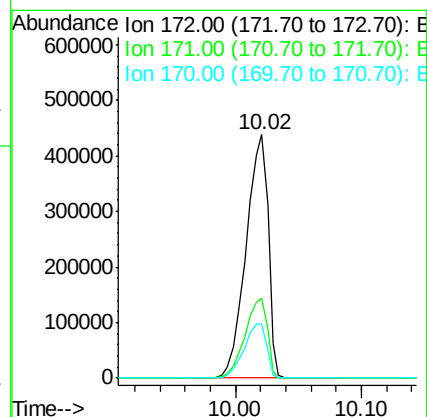
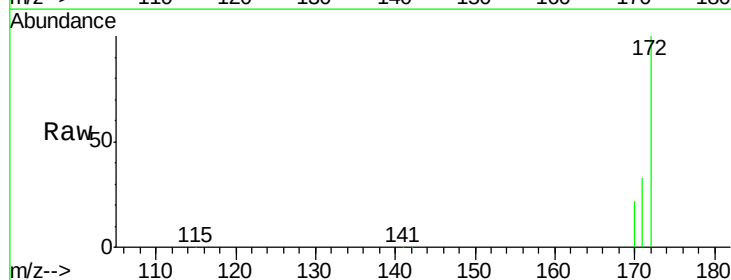
Tgt Ion:172 Resp: 533466

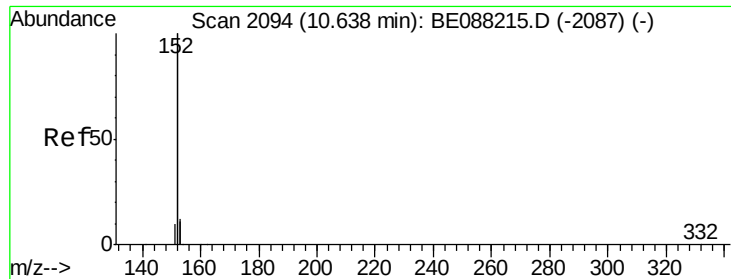
Ion Ratio Lower Upper

172 100

171 33.0 25.8 38.6

170 22.3 17.4 26.0





#9

Acenaphthylene

Concen: 0.04 ng

RT: 10.64 min Scan# 2094

Delta R.T. 0.00 min

Lab File: BE088235.D

Acq: 25 Oct 2014 6:41

Instrument :

BNA_E

ClientSampleId :

YS19-SS39-1014

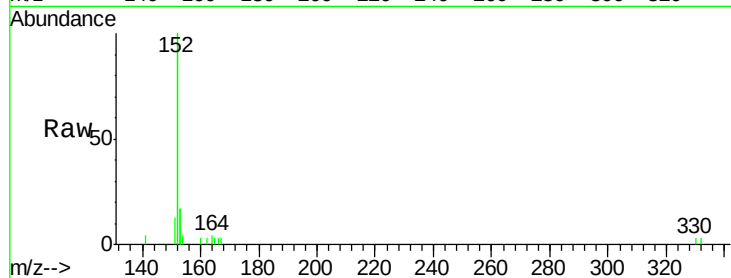
Tgt Ion:152 Resp: 3483

Ion Ratio Lower Upper

152 100

151 4.2 3.7 5.5

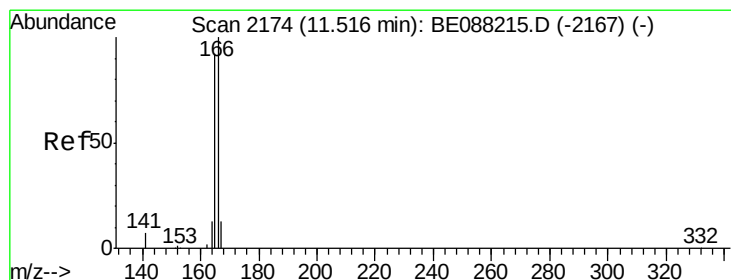
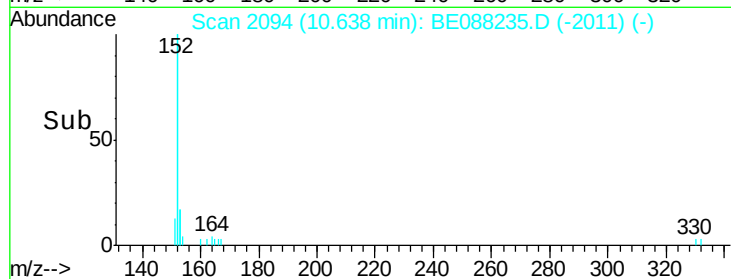
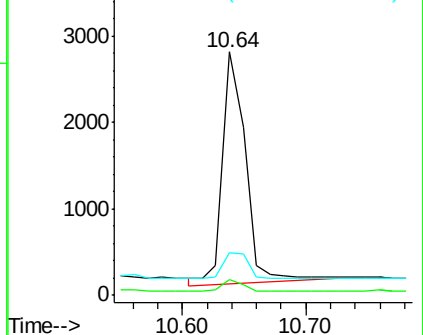
153 11.7 10.3 15.5



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



#11

Fluorene

Concen: 0.03 ng

RT: 11.52 min Scan# 2174

Delta R.T. 0.00 min

Lab File: BE088235.D

Acq: 25 Oct 2014 6:41

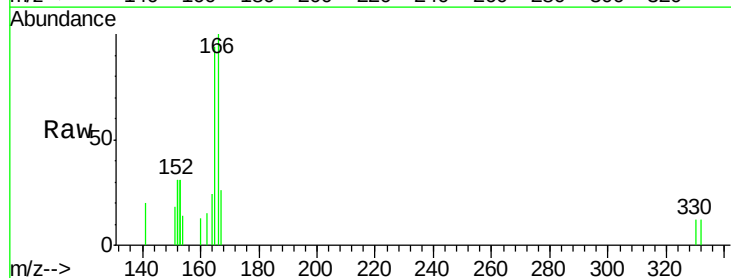
Tgt Ion:166 Resp: 368

Ion Ratio Lower Upper

166 100

165 93.8 71.8 107.6

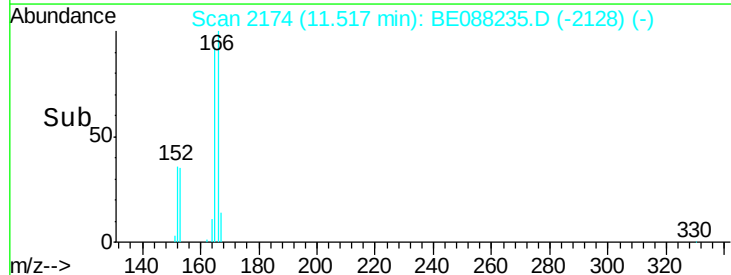
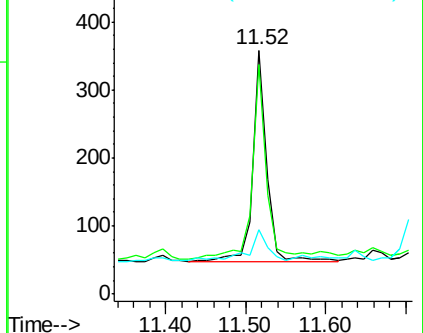
167 0.0 10.7 16.1#

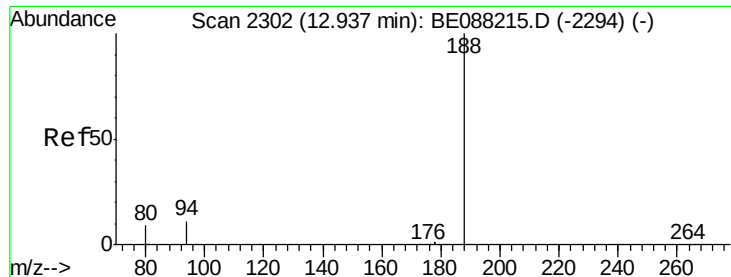


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E

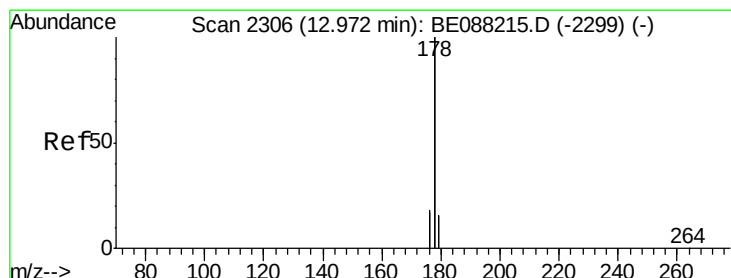
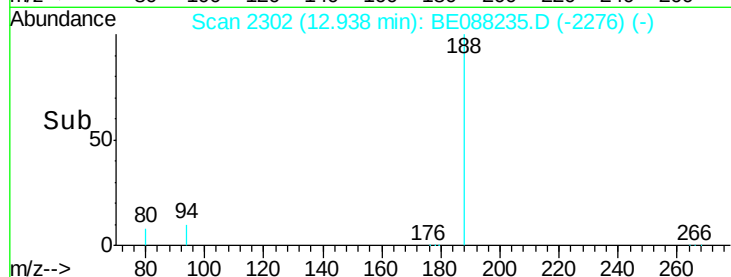
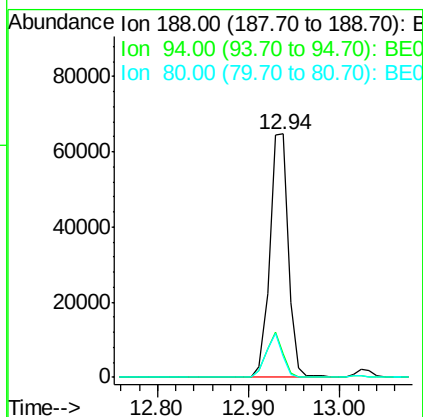
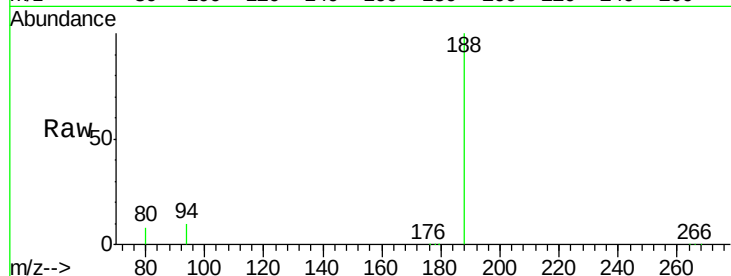




#12
Phenanthrene-d10
Concen: 5.00 ng
RT: 12.94 min Scan# 2302
Delta R.T. 0.00 min
Lab File: BE088235.D
Acq: 25 Oct 2014 6:41

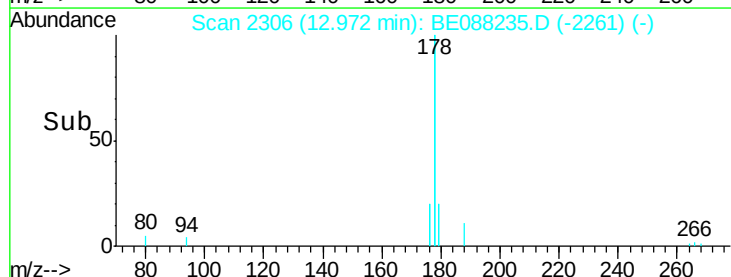
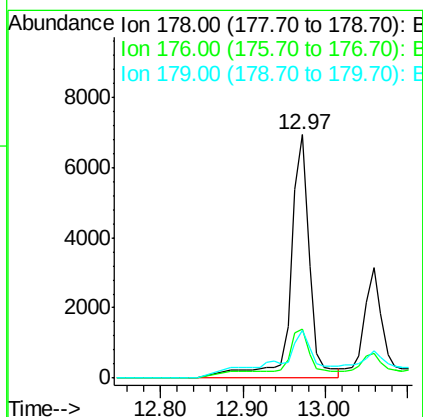
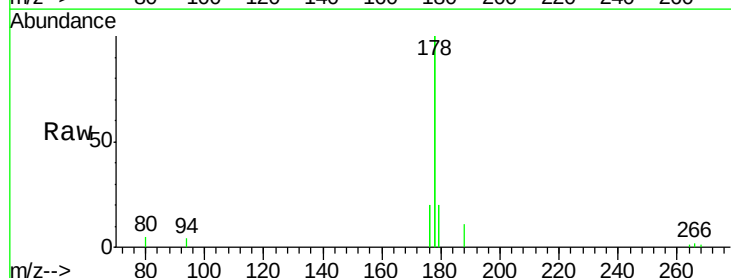
Instrument :
BNA_E
ClientSampleId :
YS19-SS39-1014

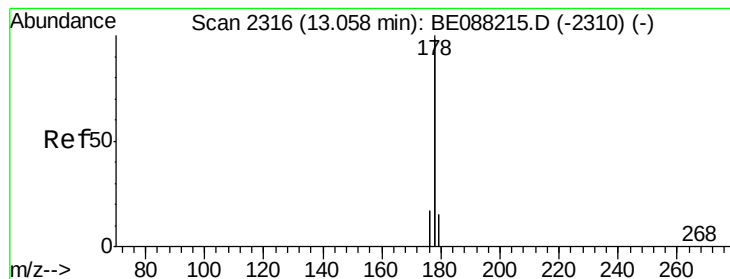
Tgt Ion:188 Resp: 117037
Ion Ratio Lower Upper
188 100
94 9.7 8.5 12.7
80 8.4 7.4 11.0



#13
Phenanthrene
Concen: 0.12 ng
RT: 12.97 min Scan# 2306
Delta R.T. 0.00 min
Lab File: BE088235.D
Acq: 25 Oct 2014 6:41

Tgt Ion:178 Resp: 13209
Ion Ratio Lower Upper
178 100
176 17.1 14.0 21.0
179 37.0 11.8 17.6#





#14

Anthracene

Concen: 0.05 ng

RT: 13.06 min Scan# 2316

Delta R.T. 0.00 min

Lab File: BE088235.D

Acq: 25 Oct 2014 6:41

Instrument :

BNA_E

ClientSampleId :

YS19-SS39-1014

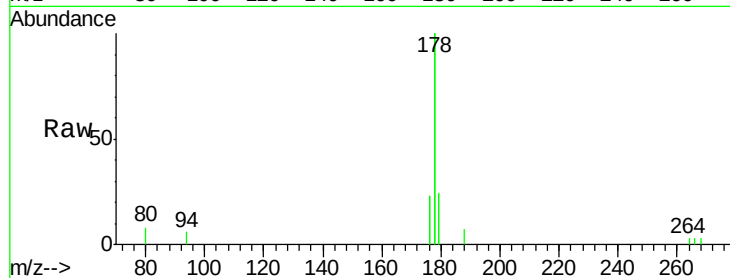
Tgt Ion:178 Resp: 4064

Ion Ratio Lower Upper

178 100

176 24.8 14.7 22.1#

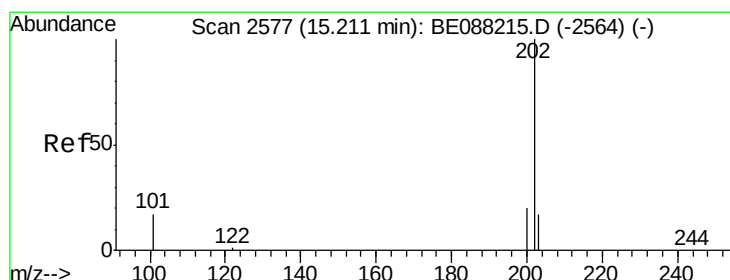
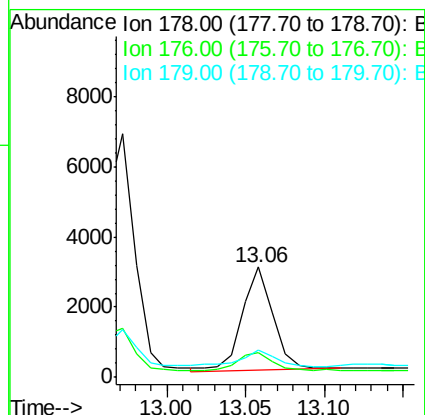
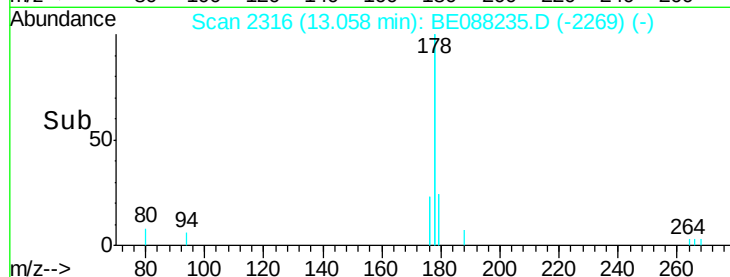
179 25.7 12.3 18.5#



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: 0.27 ng

RT: 15.21 min Scan# 2576

Delta R.T. -0.01 min

Lab File: BE088235.D

Acq: 25 Oct 2014 6:41

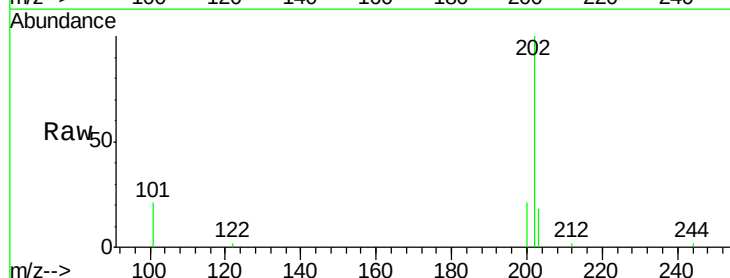
Tgt Ion:202 Resp: 4706

Ion Ratio Lower Upper

202 100

101 18.1 14.4 21.6

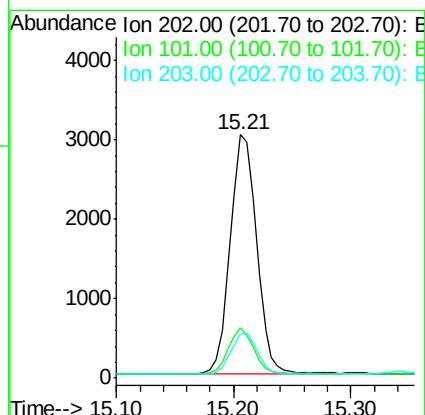
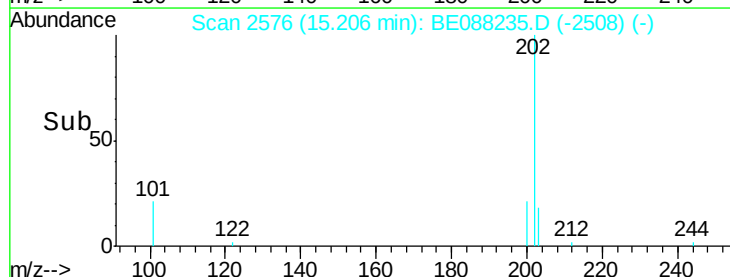
203 17.0 13.4 20.2

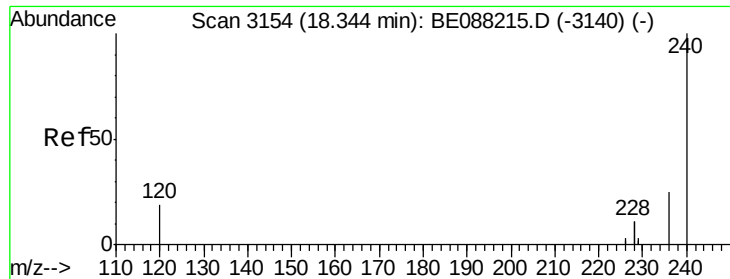


Abundance Ion 202.00 (201.70 to 202.70): E

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# 3154

Delta R.T. -0.00 min

Lab File: BE088235.D

Acq: 25 Oct 2014 6:41

Instrument :

BNA_E

ClientSampleId :

YS19-SS39-1014

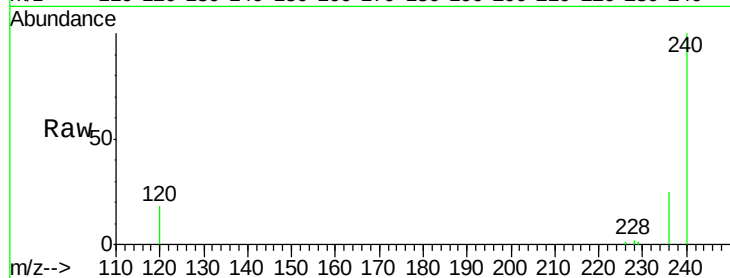
Tgt Ion:240 Resp: 59724

Ion Ratio Lower Upper

240 100

120 17.7 15.1 22.7

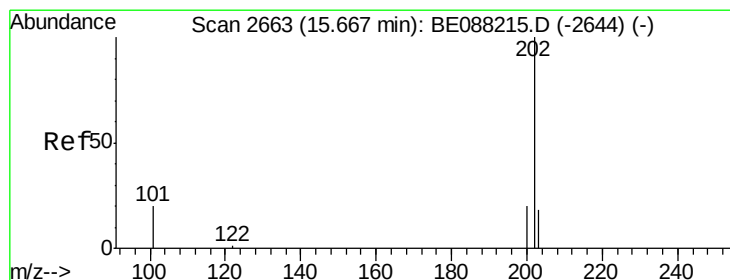
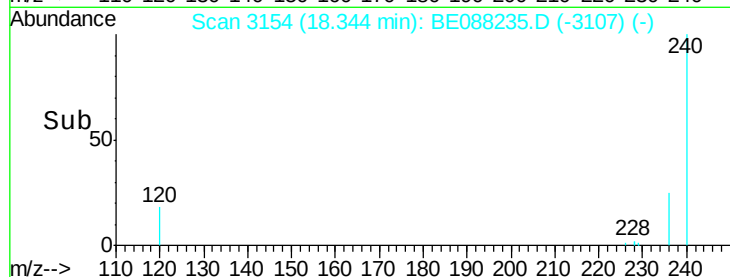
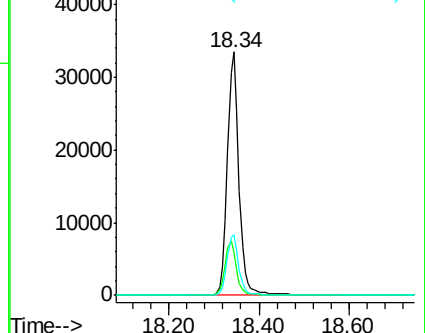
236 25.1 20.1 30.1



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: 0.28 ng

RT: 15.66 min Scan# 2662

Delta R.T. -0.01 min

Lab File: BE088235.D

Acq: 25 Oct 2014 6:41

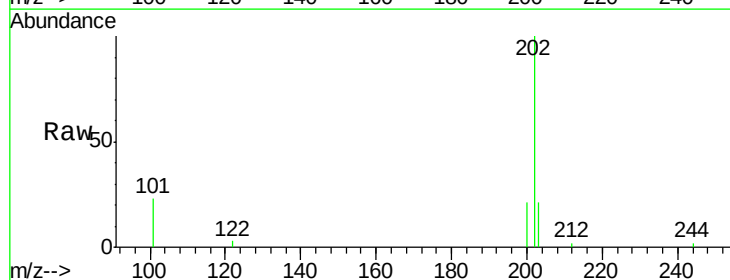
Tgt Ion:202 Resp: 4604

Ion Ratio Lower Upper

202 100

200 20.2 16.2 24.2

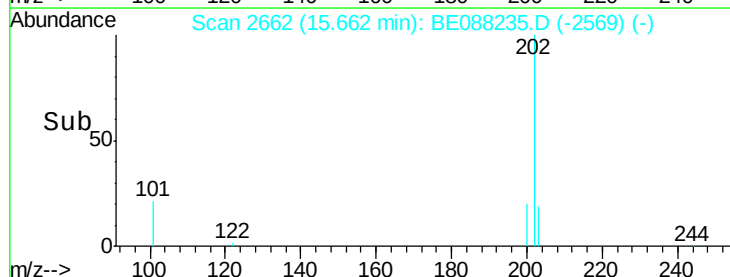
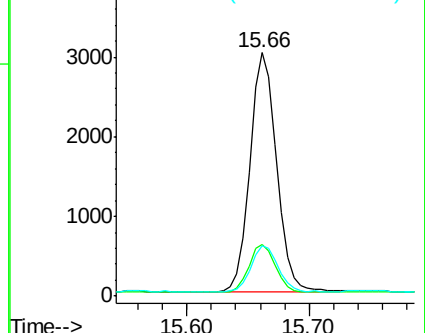
203 19.7 13.8 20.8

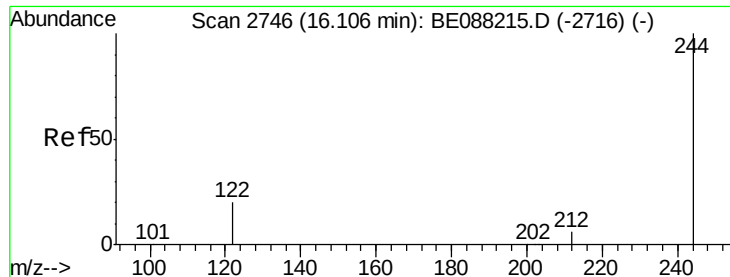


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#18

Terphenyl-d14

Concen: 49.64 ng

RT: 16.13 min Scan# 2750

Delta R.T. 0.02 min

Lab File: BE088235.D

Acq: 25 Oct 2014 6:41

Instrument :

BNA_E

ClientSampleId :

YS19-SS39-1014

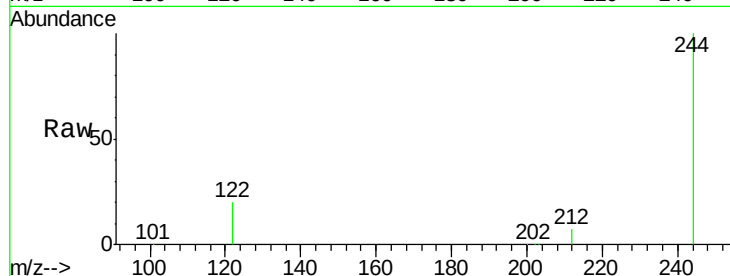
Tgt Ion:244 Resp: 485512

Ion Ratio Lower Upper

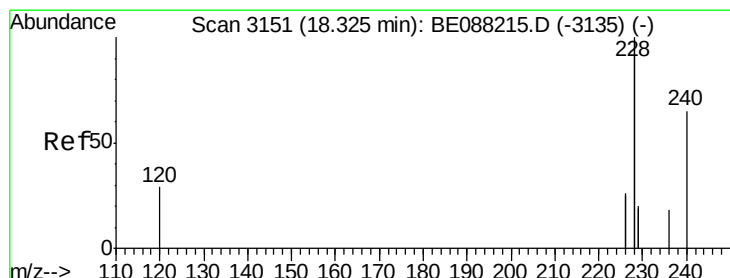
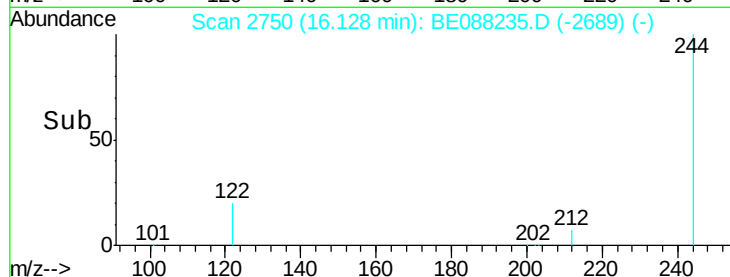
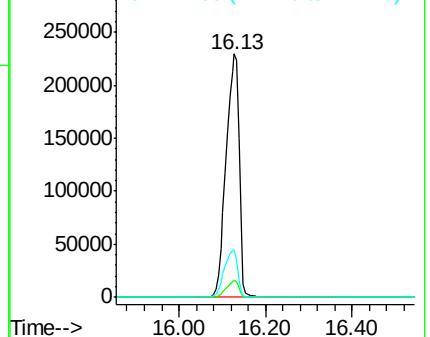
244 100

212 6.8 5.4 8.2

122 19.7 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: 0.21 ng

RT: 18.32 min Scan# 3151

Delta R.T. -0.00 min

Lab File: BE088235.D

Acq: 25 Oct 2014 6:41

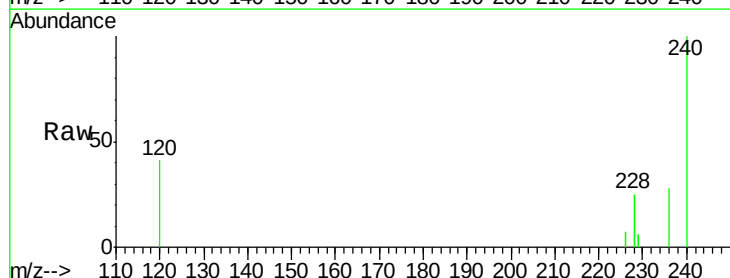
Tgt Ion:228 Resp: 9991

Ion Ratio Lower Upper

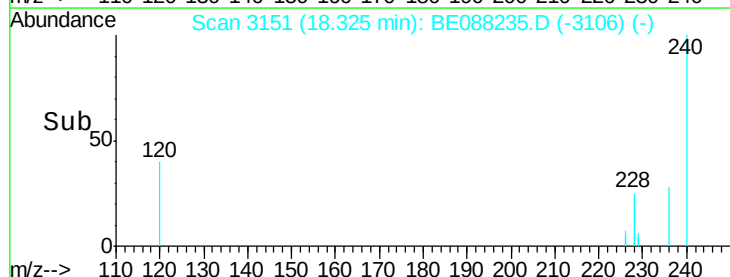
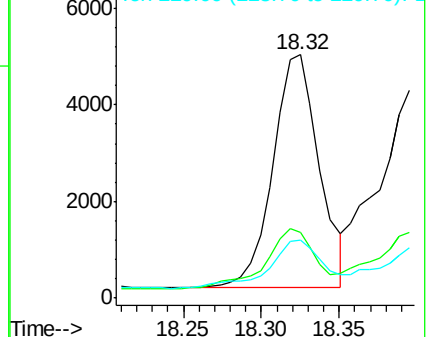
228 100

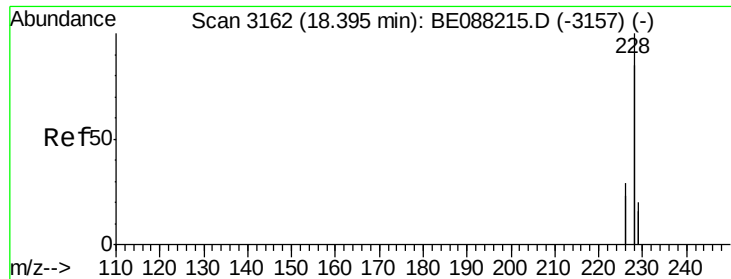
226 27.2 20.5 30.7

229 23.9 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





#20

Chrysene

Concen: 0.20 ng

RT: 18.40 min Scan# 3162

Delta R.T. -0.00 min

Lab File: BE088235.D

Acq: 25 Oct 2014 6:41

Instrument :

BNA_E

ClientSampleId :

YS19-SS39-1014

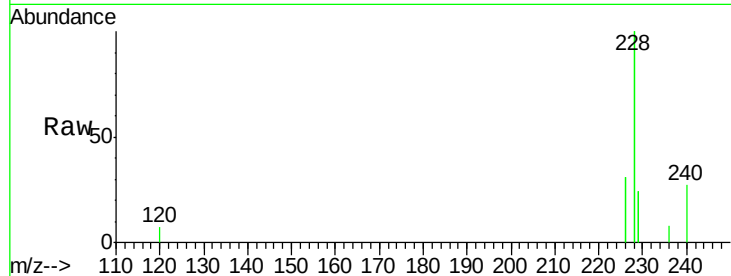
Tgt Ion:228 Resp: 10912

Ion Ratio Lower Upper

228 100

226 31.3 23.3 34.9

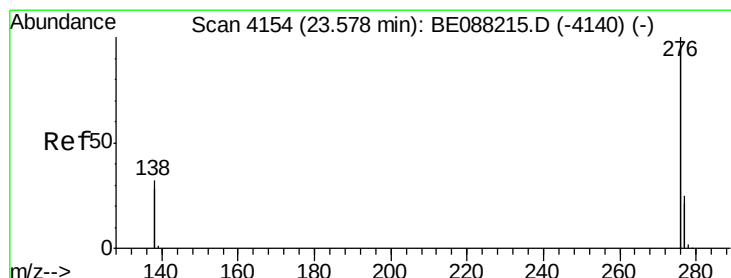
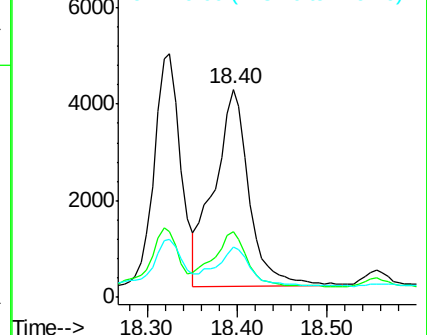
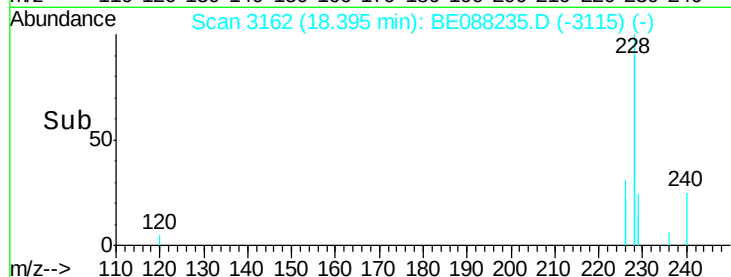
229 23.9 15.6 23.4#



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



#21

Indeno(1,2,3-cd)pyrene

Concen: 0.36 ng

RT: 23.57 min Scan# 4153

Delta R.T. -0.01 min

Lab File: BE088235.D

Acq: 25 Oct 2014 6:41

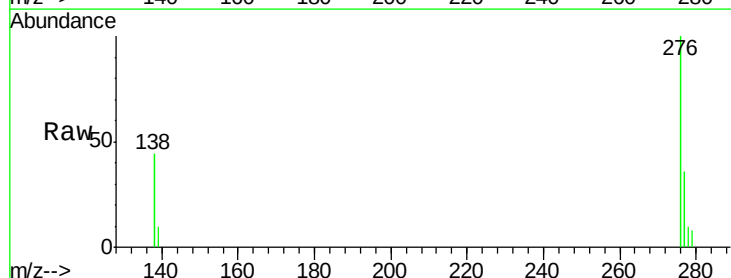
Tgt Ion:276 Resp: 6918

Ion Ratio Lower Upper

276 100

138 30.3 13.9 20.9#

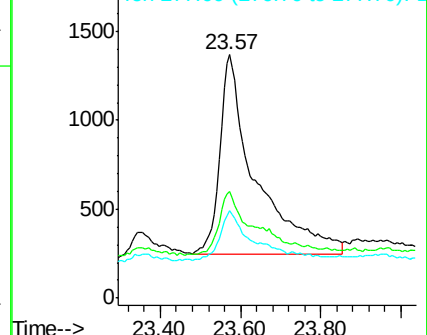
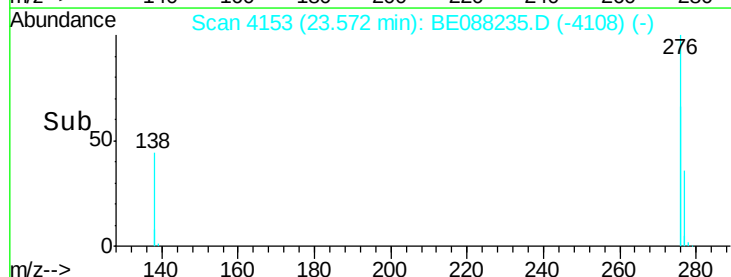
277 21.4 10.7 16.1#

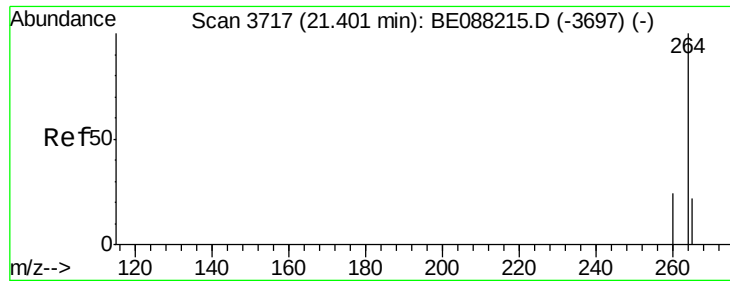


Abundance Ion 276.00 (275.70 to 276.70): E

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# 3716

Delta R.T. -0.00 min

Lab File: BE088235.D

Acq: 25 Oct 2014 6:41

Instrument :

BNA_E

ClientSampleId :

YS19-SS39-1014

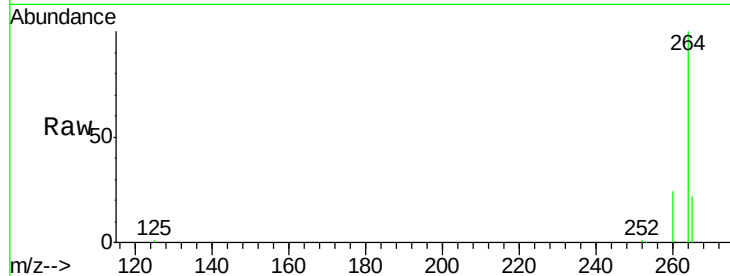
Tgt Ion:264 Resp: 46698

Ion Ratio Lower Upper

264 100

260 23.9 19.0 28.4

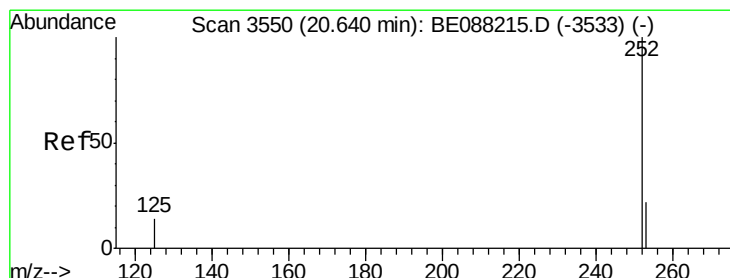
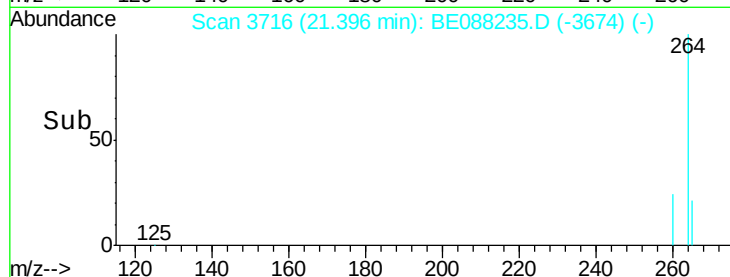
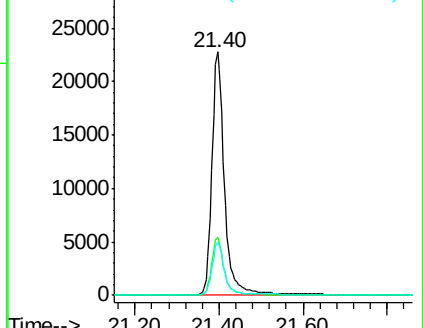
265 21.5 17.4 26.2



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



#23

Benzo(b)fluoranthene

Concen: 0.44 ng

RT: 20.64 min Scan# 3551

Delta R.T. 0.00 min

Lab File: BE088235.D

Acq: 25 Oct 2014 6:41

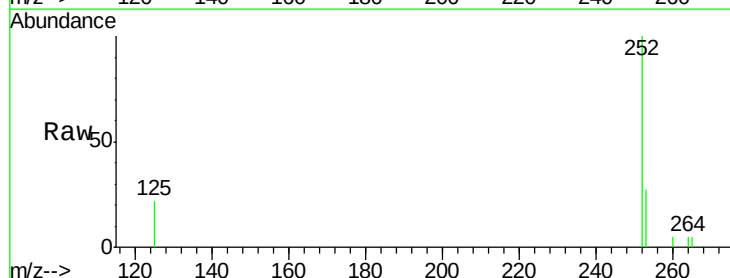
Tgt Ion:252 Resp: 2858

Ion Ratio Lower Upper

252 100

253 26.7 17.9 26.9

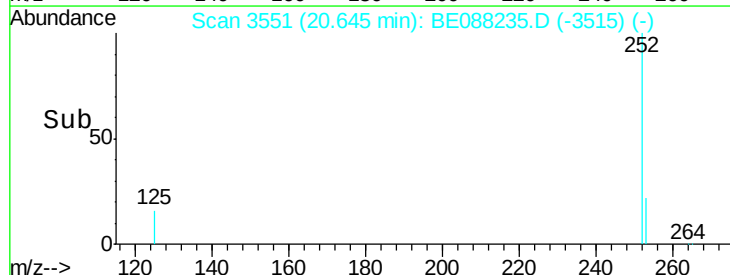
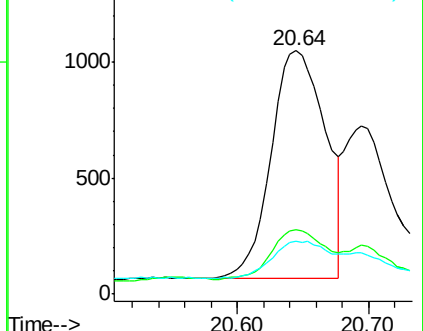
125 21.5 12.2 18.2#

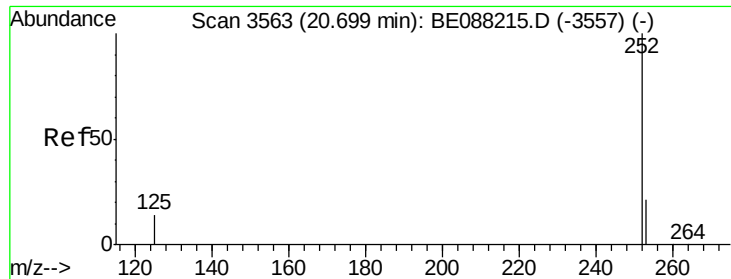


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#24

Benzo(k)fluoranthene

Concen: 0.24 ng

RT: 20.64 min Scan# 3551

Delta R.T. -0.05 min

Lab File: BE088235.D

Acq: 25 Oct 2014 6:41

Instrument :

BNA_E

ClientSampleId :

YS19-SS39-1014

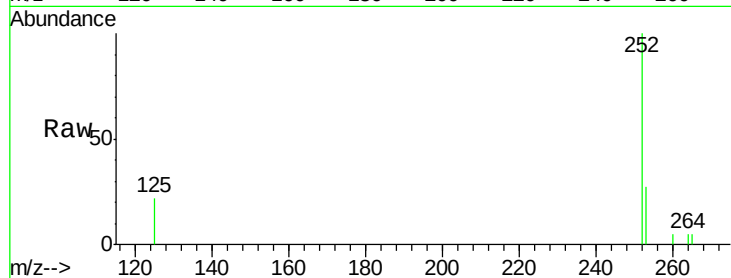
Tgt Ion:252 Resp: 2858

Ion Ratio Lower Upper

252 100

253 26.7 17.6 26.4#

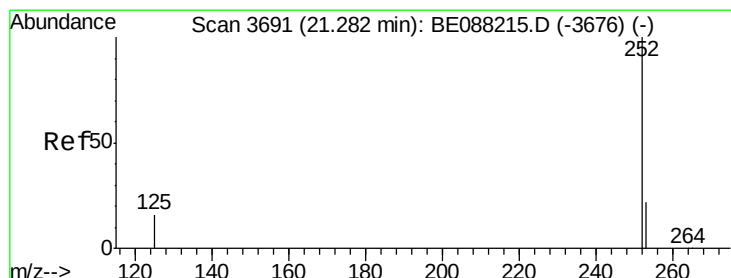
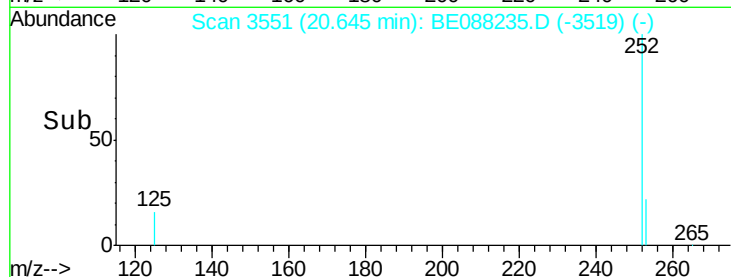
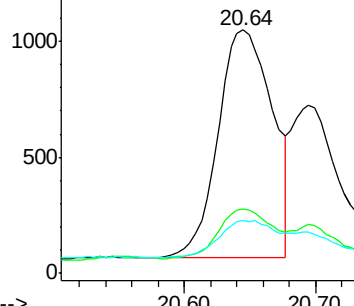
125 21.5 12.1 18.1#



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: 0.34 ng

RT: 21.28 min Scan# 3690

Delta R.T. -0.00 min

Lab File: BE088235.D

Acq: 25 Oct 2014 6:41

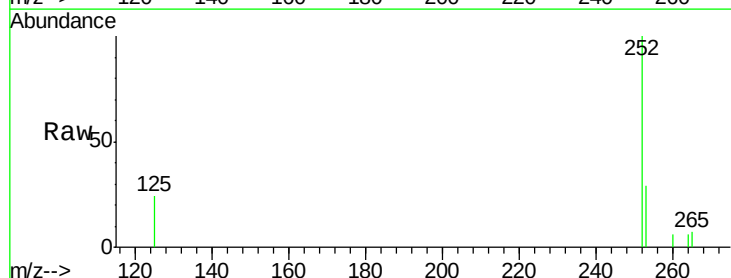
Tgt Ion:252 Resp: 1694

Ion Ratio Lower Upper

252 100

253 28.9 17.8 26.8#

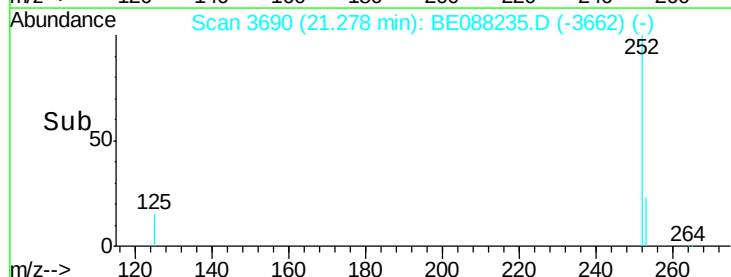
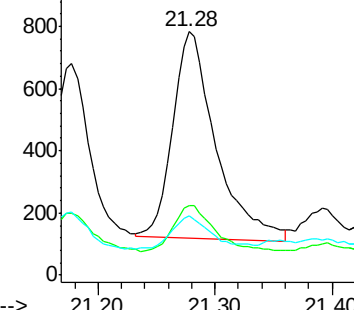
125 24.4 13.5 20.3#

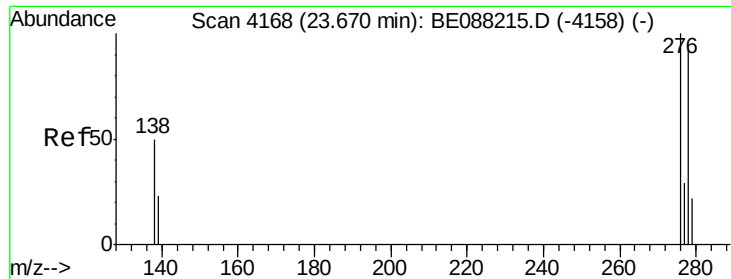


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

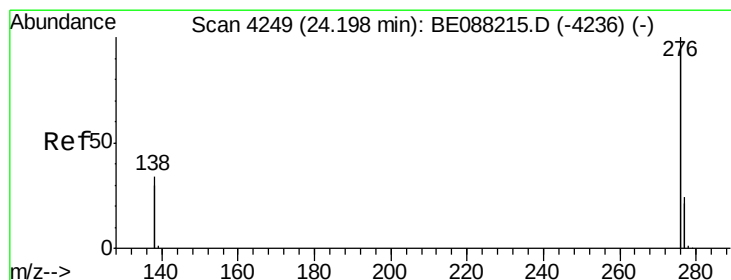
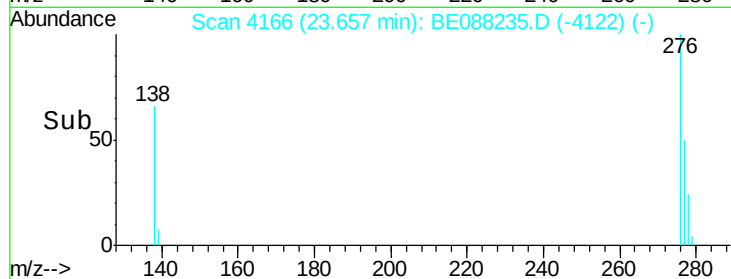
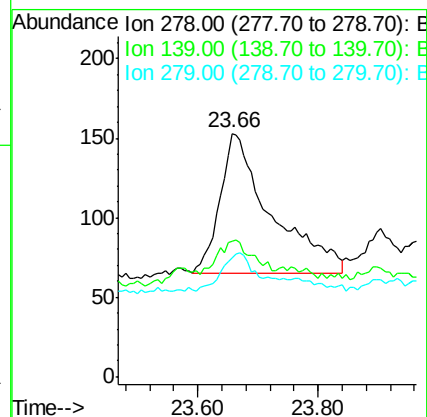
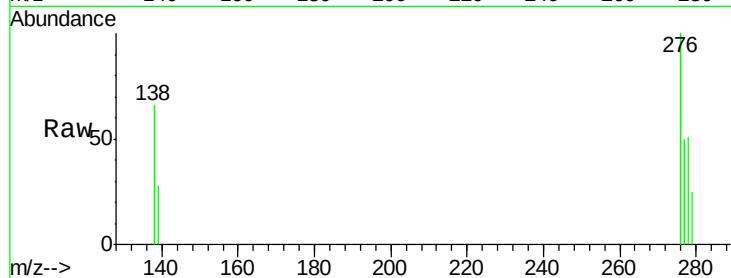




#26
Dibenzo(a,h)anthracene
Concen: 0.26 ng
RT: 23.66 min Scan# 4166
Delta R.T. -0.01 min
Lab File: BE088235.D
Acq: 25 Oct 2014 6:41

Instrument :
BNA_E
ClientSampleId :
YS19-SS39-1014

Tgt Ion: 278 Resp: 523
Ion Ratio Lower Upper
278 100
139 55.6 22.1 33.1#
279 49.0 20.2 30.2#



#27
Benzo(g,h,i)perylene
Concen: 0.19 ng
RT: 24.20 min Scan# 4249
Delta R.T. 0.00 min
Lab File: BE088235.D
Acq: 25 Oct 2014 6:41

Tgt Ion: 276 Resp: 7257
Ion Ratio Lower Upper
276 100
277 33.1 19.4 29.2#
138 42.7 27.3 40.9#

