

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE103114\
 Data File : BE088468.D
 Acq On : 2 Nov 2014 00:50
 Operator : TP/JJ
 Sample : F4368-03RE
 Misc :
 ALS Vial : 43 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 YS19-SS33-1014RE

Quant Time: Nov 02 04:23:24 2014
 Quant Method : Z:\HPCHEM1\BNA_E\METHODS\SIM-PAH-BE103114.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Sat Nov 01 00:42:07 2014
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.09	152	22930	5.00	ng	0.00
3) Naphthalene-d8	8.65	136	80016	5.00	ng	0.00
7) Acenaphthene-d10	10.80	164	36775	5.00	ng	0.01
12) Phenanthrene-d10	12.91	188	74811	5.00	ng	0.00
16) Chrysene-d12	18.33	240	47604	5.00	ng	0.02
22) Perylene-d12	21.41	264	44936	5.00	ng	0.03

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
4) Nitrobenzene-d5	7.79	82	523387	89.19	ng	0.02
8) 2-Fluorobiphenyl	9.99	172	470744	45.41	ng	0.00
18) Terphenyl-d14	16.10	244	316785	36.22	ng	0.03

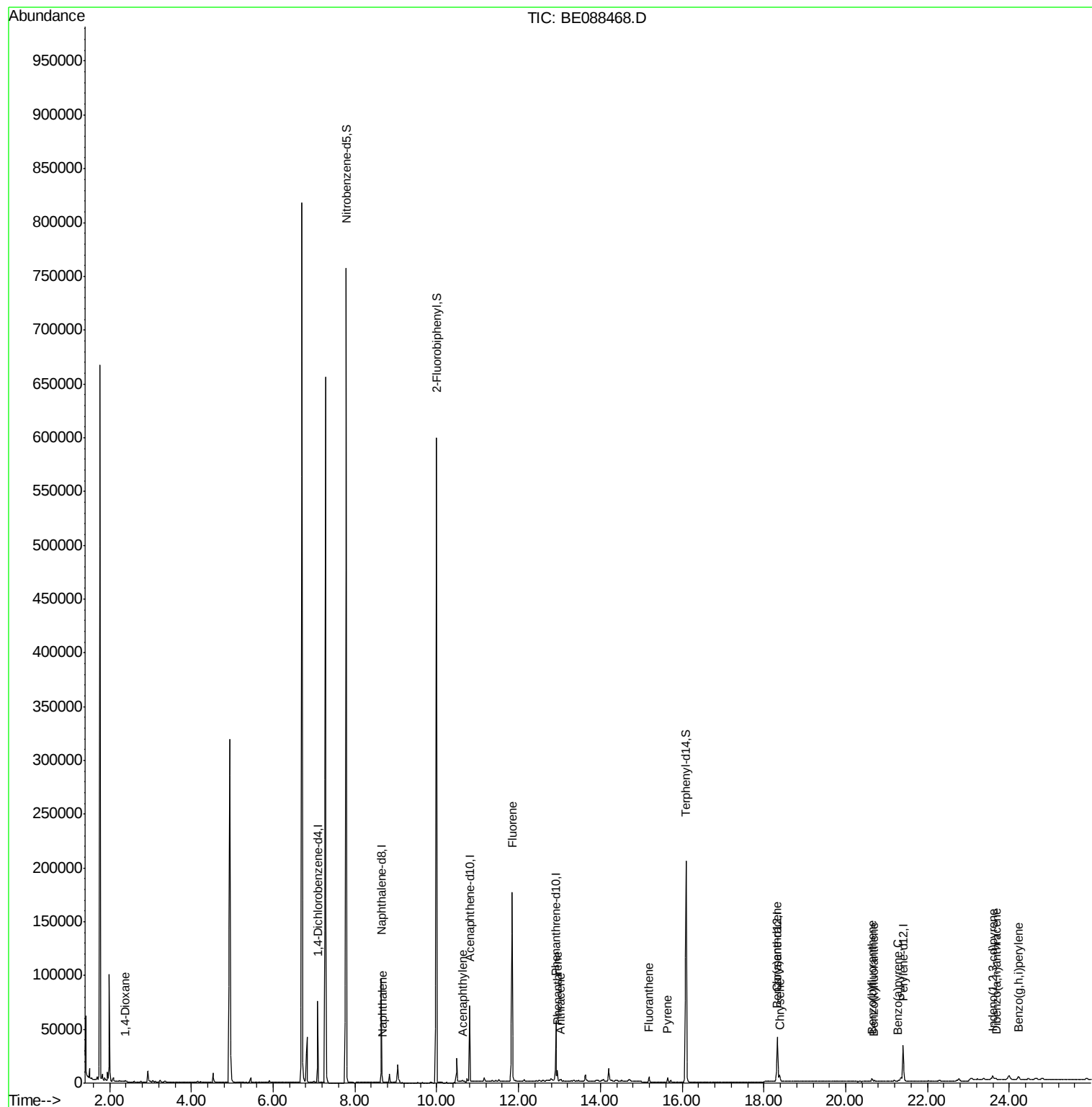
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 1,4-Dioxane	2.39	88	168	0.06	ng	# 22
5) Naphthalene	8.68	128	413	0.02	ng	# 66
9) Acenaphthylene	10.63	152	1873	0.03	ng	# 43
11) Fluorene	11.85	166	6740	0.72	ng	# 78
13) Phenanthrene	12.95	178	15779	0.23	ng	# 76
14) Anthracene	13.03	178	2284	0.04	ng	# 66
15) Fluoranthene	15.19	202	5023	0.46	ng	98
17) Pyrene	15.65	202	4152	0.27	ng	97
19) Benzo(a)anthracene	18.31	228	7538	0.17	ng	# 83
20) Chrysene	18.38	228	9371	0.21	ng	# 86
21) Indeno(1,2,3-cd)pyrene	23.59	276	5175	0.13	ng	# 52
23) Benzo(b)fluoranthene	20.65	252	3073	0.31	ng	# 1
24) Benzo(k)fluoranthene	20.70	252	1192	0.11	ng	# 1
25) Benzo(a)pyrene	21.28	252	1593	0.17	ng	# 9
26) Dibenzo(a,h)anthracene	23.68	278	303	0.03	ng	# 1
27) Benzo(g,h,i)perylene	24.22	276	5075	0.13	ng	# 29

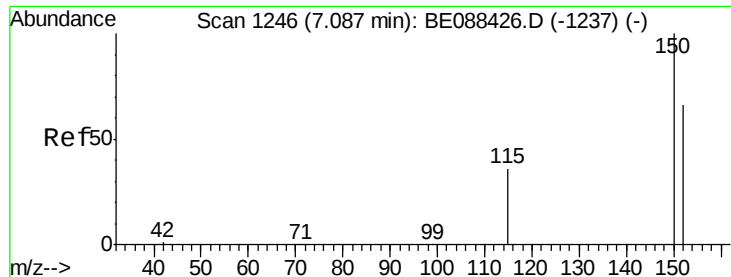
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 7.09 min Scan# 1247

Delta R.T. 0.00 min

Lab File: BE088468.D

Acq: 2 Nov 2014 00:50

Instrument :

BNA_E

ClientSampleId :

YS19-SS33-1014RE

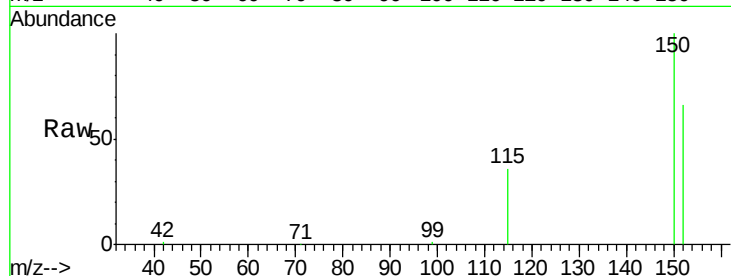
Tgt Ion:152 Resp: 22930

Ion Ratio Lower Upper

152 100

150 151.7 121.8 182.8

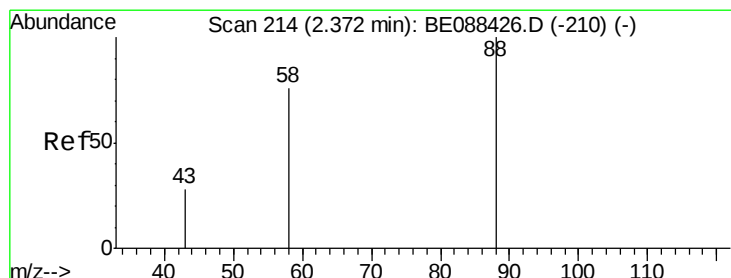
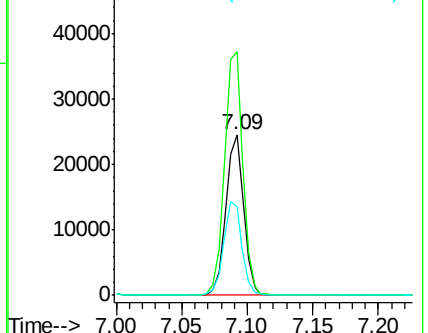
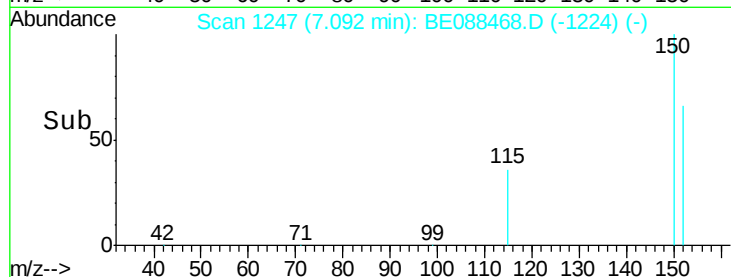
115 55.3 43.9 65.9



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: 0.06 ng

RT: 2.39 min Scan# 218

Delta R.T. 0.02 min

Lab File: BE088468.D

Acq: 2 Nov 2014 00:50

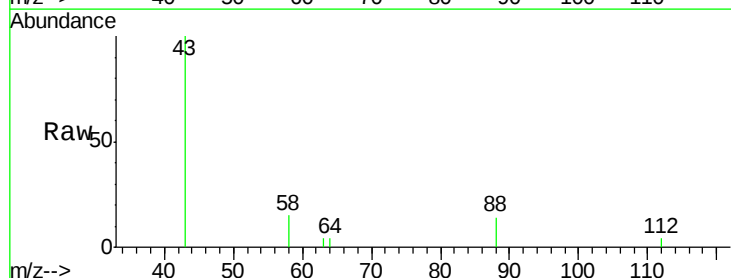
Tgt Ion: 88 Resp: 168

Ion Ratio Lower Upper

88 100

58 0.0 59.1 88.7#

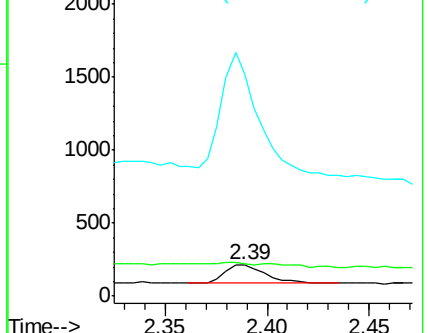
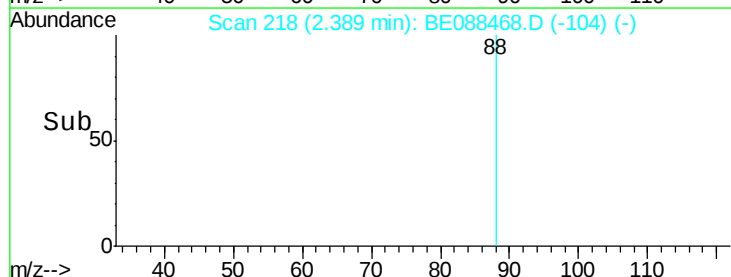
43 0.0 21.9 32.9#

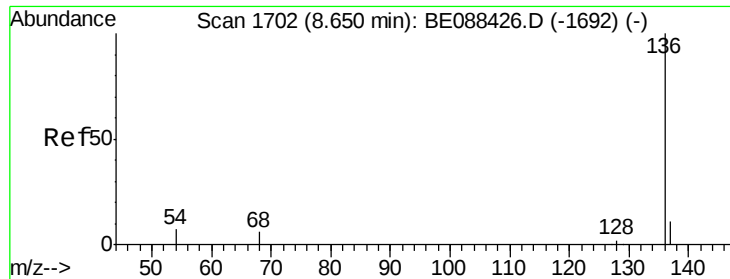


Abundance Ion 88.00 (87.70 to 88.70): BE0

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: 8.65 min Scan# 1702

Delta R.T. -0.00 min

Lab File: BE088468.D

Acq: 2 Nov 2014 00:50

Instrument :

BNA_E

ClientSampleId :

YS19-SS33-1014RE

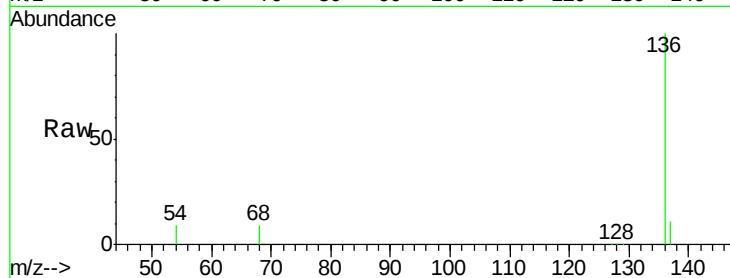
Tgt Ion: 136 Resp: 80016

Ion Ratio Lower Upper

136 100

137 10.7 8.8 13.2

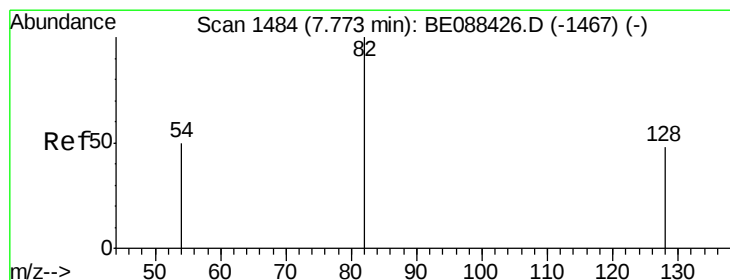
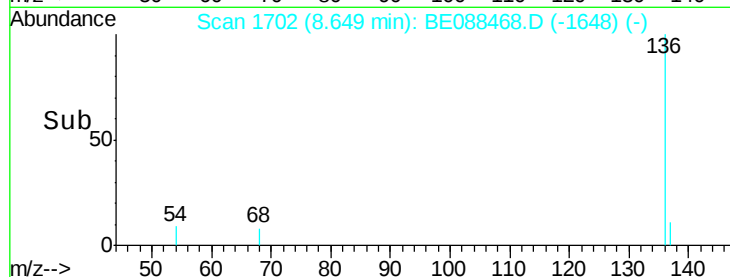
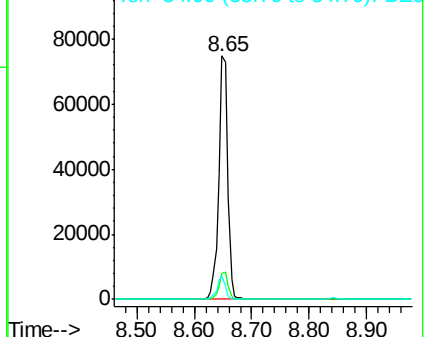
54 9.4 5.3 7.9#



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: 89.19 ng

RT: 7.79 min Scan# 1492

Delta R.T. 0.02 min

Lab File: BE088468.D

Acq: 2 Nov 2014 00:50

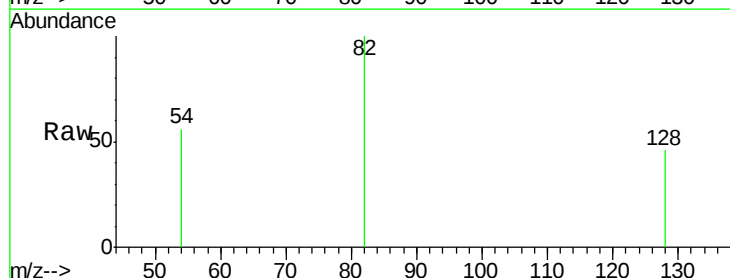
Tgt Ion: 82 Resp: 523387

Ion Ratio Lower Upper

82 100

128 46.4 38.4 57.6

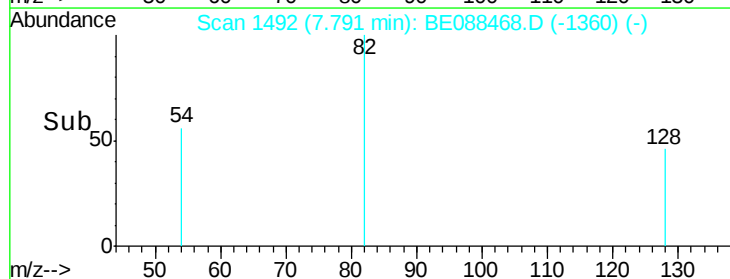
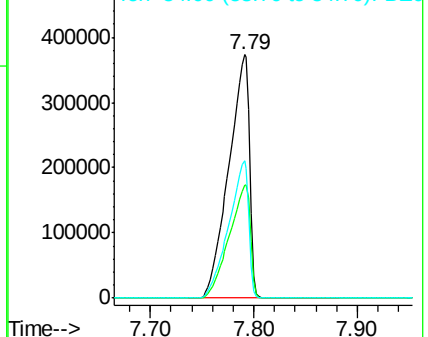
54 56.5 40.2 60.2



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: 0.02 ng

RT: 8.68 min Scan# 1708

Delta R.T. 0.01 min

Lab File: BE088468.D

Acq: 2 Nov 2014 00:50

Instrument :

BNA_E

ClientSampleId :

YS19-SS33-1014RE

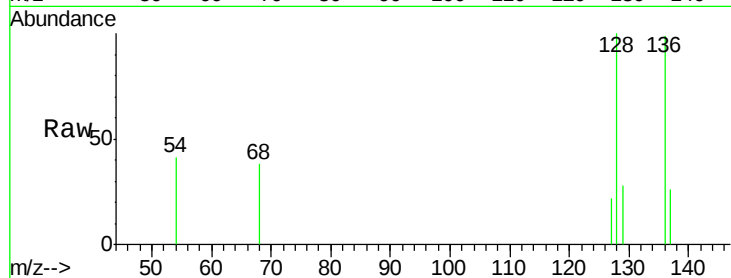
Tgt Ion:128 Resp: 413

Ion Ratio Lower Upper

128 100

129 27.5 8.6 12.8#

127 22.5 10.1 15.1#



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

8.68

400

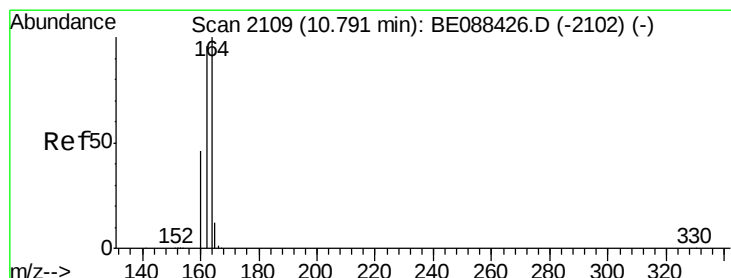
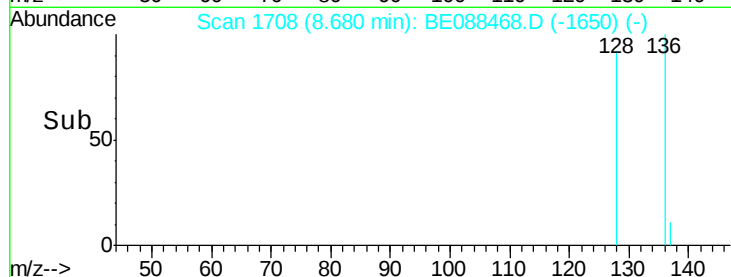
300

200

100

0

Time-->



#7

Acenaphthene-d10

Concen: 5.00 ng

RT: 10.80 min Scan# 2110

Delta R.T. 0.01 min

Lab File: BE088468.D

Acq: 2 Nov 2014 00:50

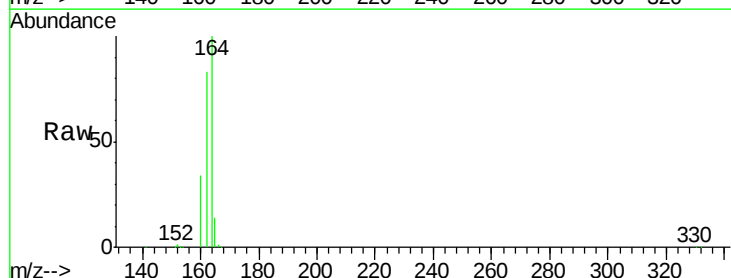
Tgt Ion:164 Resp: 36775

Ion Ratio Lower Upper

164 100

162 83.5 77.0 115.4

160 33.7 36.8 55.2#



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

10.80

40000

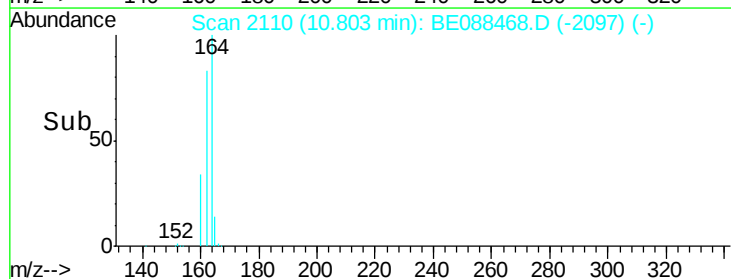
30000

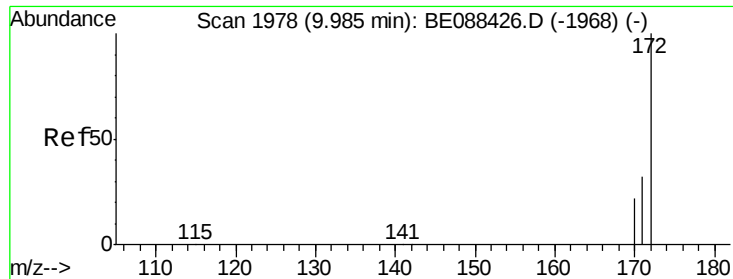
20000

10000

0

Time-->





#8

2-Fluorobiphenyl

Concen: 45.41 ng

RT: 9.99 min Scan# 1980

Delta R.T. 0.01 min

Lab File: BE088468.D

Acq: 2 Nov 2014 00:50

Instrument :

BNA_E

ClientSampleId :

YS19-SS33-1014RE

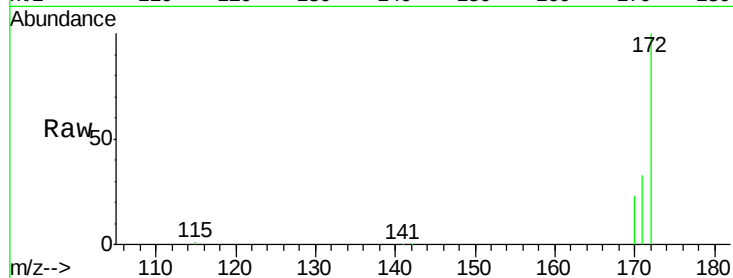
Tgt Ion:172 Resp: 470744

Ion Ratio Lower Upper

172 100

171 33.3 26.0 39.0

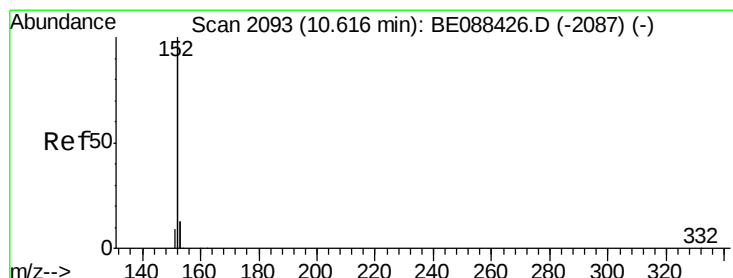
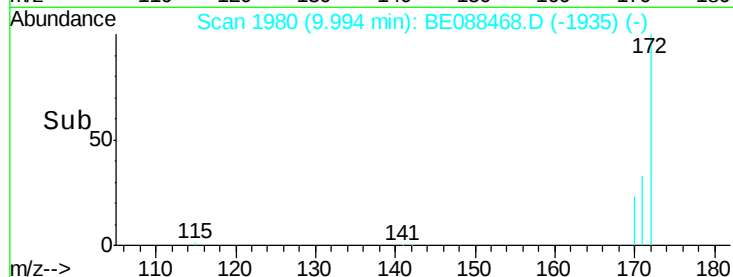
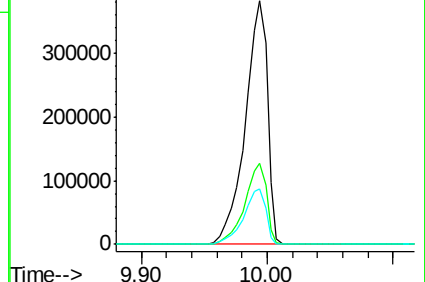
170 23.0 17.6 26.4



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: 0.03 ng

RT: 10.63 min Scan# 2094

Delta R.T. 0.01 min

Lab File: BE088468.D

Acq: 2 Nov 2014 00:50

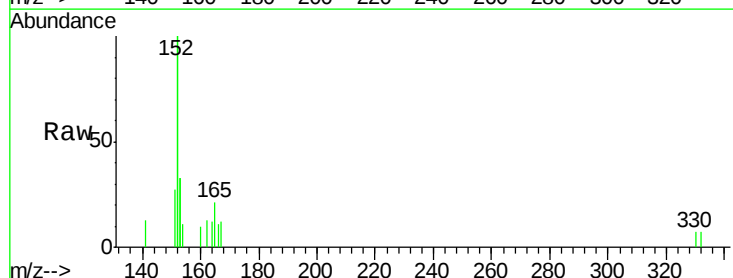
Tgt Ion:152 Resp: 1873

Ion Ratio Lower Upper

152 100

151 14.1 4.4 6.6#

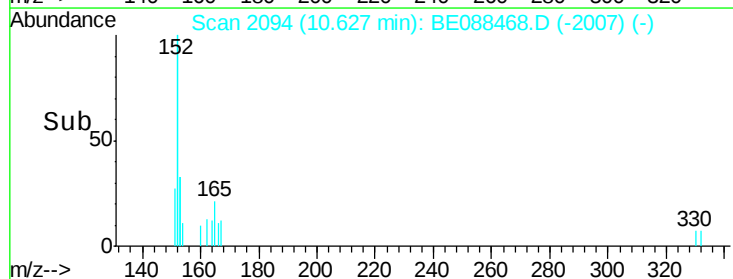
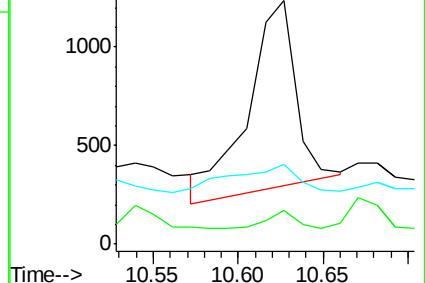
153 41.2 10.5 15.7#

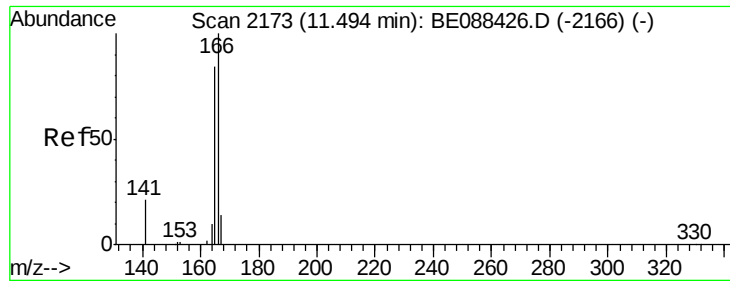


Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E





#11

Fluorene

Concen: 0.72 ng

RT: 11.85 min Scan# 2205

Delta R.T. 0.35 min

Lab File: BE088468.D

Acq: 2 Nov 2014 00:50

Instrument :

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ClientSampleId :

YS19-SS33-1014RE

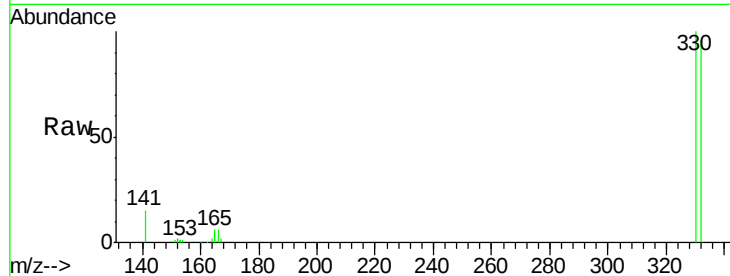
Tgt Ion:166 Resp: 6740

Ion Ratio Lower Upper

166 100

165 105.7 71.3 106.9

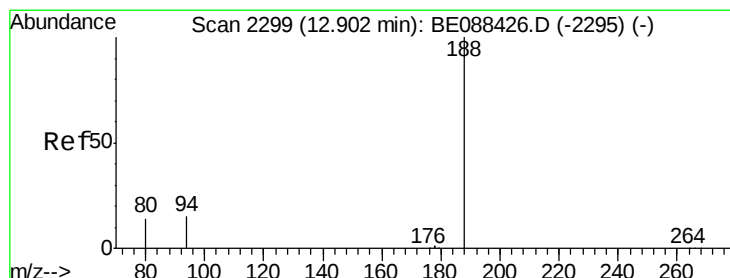
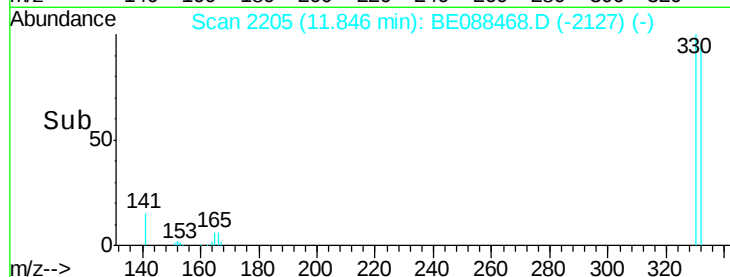
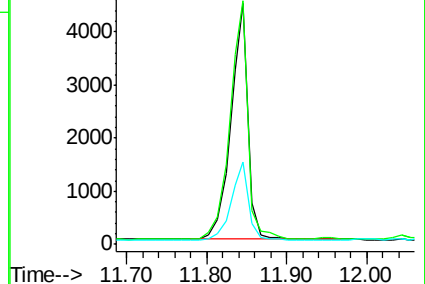
167 33.9 10.7 16.1#



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: 12.91 min Scan# 2300

Delta R.T. 0.01 min

Lab File: BE088468.D

Acq: 2 Nov 2014 00:50

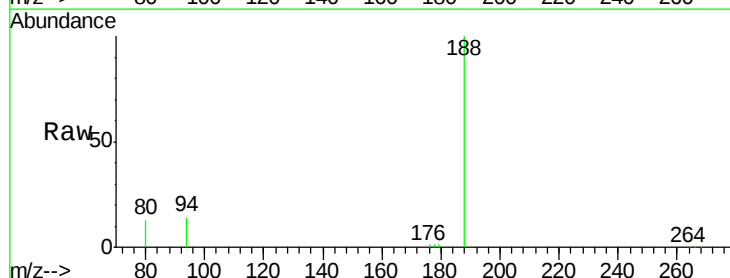
Tgt Ion:188 Resp: 74811

Ion Ratio Lower Upper

188 100

94 13.9 11.8 17.8

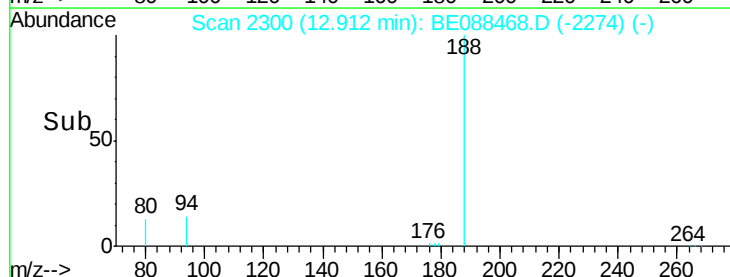
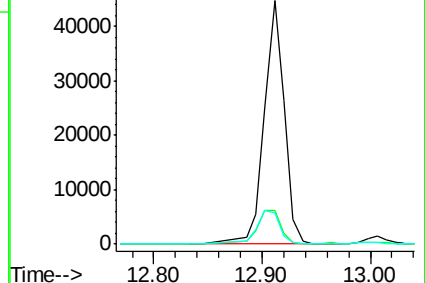
80 12.8 10.9 16.3

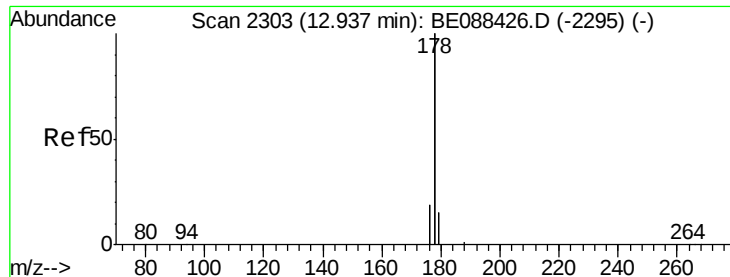


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BE0

Ion 80.00 (79.70 to 80.70): BE0





#13

Phenanthrene

Concen: 0.23 ng

RT: 12.95 min Scan# 2304

Delta R.T. 0.01 min

Lab File: BE088468.D

Acq: 2 Nov 2014 00:50

Instrument :

BNA_E

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YS19-SS33-1014RE

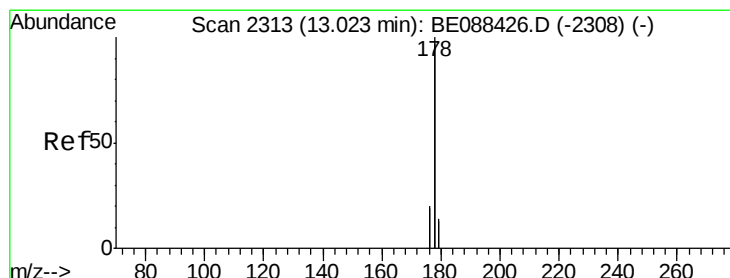
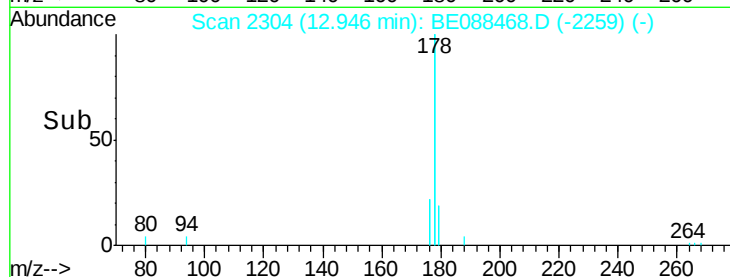
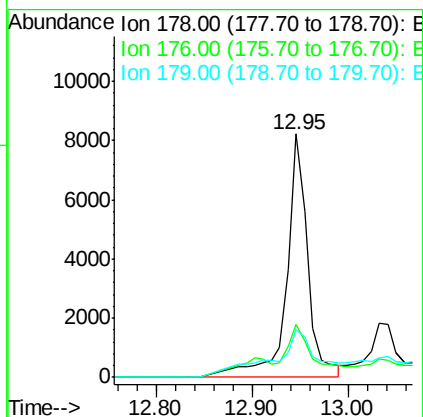
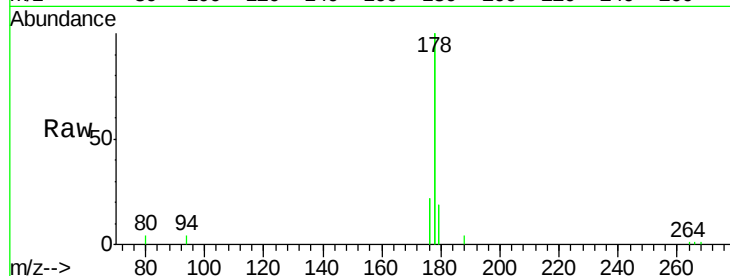
Tgt Ion:178 Resp: 15779

Ion Ratio Lower Upper

178 100

176 18.7 15.4 23.2

179 38.3 12.8 19.2#



#14

Anthracene

Concen: 0.04 ng

RT: 13.03 min Scan# 2314

Delta R.T. 0.01 min

Lab File: BE088468.D

Acq: 2 Nov 2014 00:50

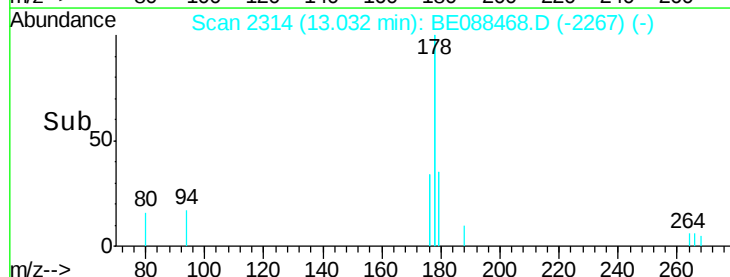
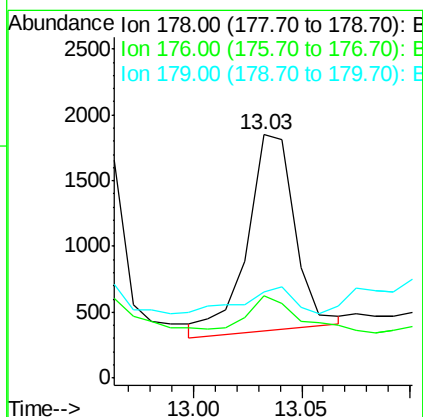
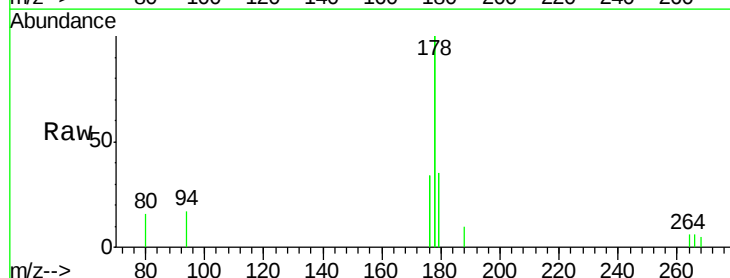
Tgt Ion:178 Resp: 2284

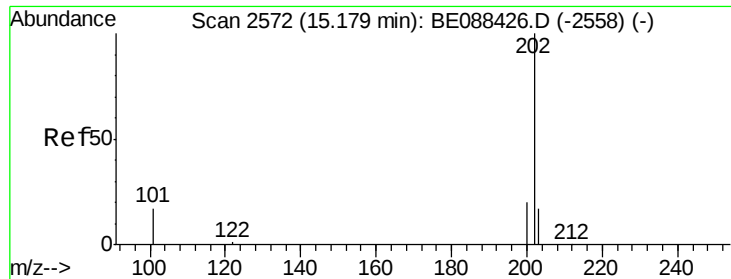
Ion Ratio Lower Upper

178 100

176 33.2 15.0 22.4#

179 0.0 12.5 18.7#

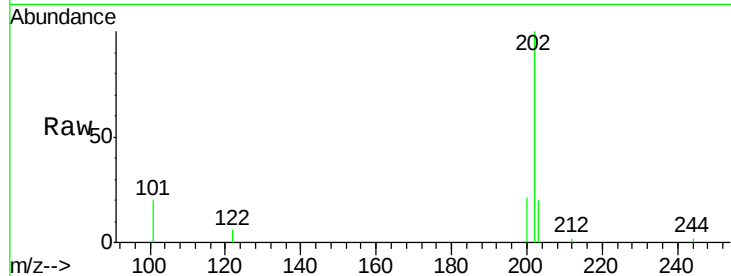




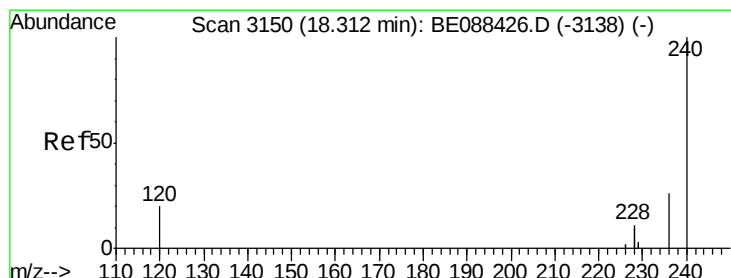
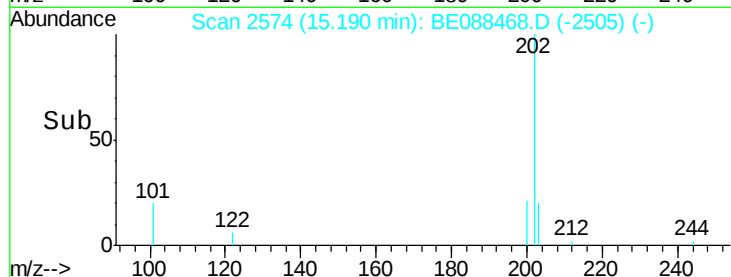
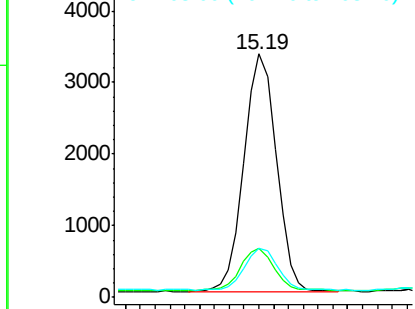
#15
 Fluoranthene
 Concen: 0.46 ng
 RT: 15.19 min Scan# 2574
 Delta R.T. 0.01 min
 Lab File: BE088468.D
 Acq: 2 Nov 2014 00:50

Instrument :
 BNA_E
 ClientSampleId :
 YS19-SS33-1014RE

Tgt Ion: 202 Resp: 5023
 Ion Ratio Lower Upper
 202 100
 101 17.7 14.3 21.5
 203 18.1 13.6 20.4

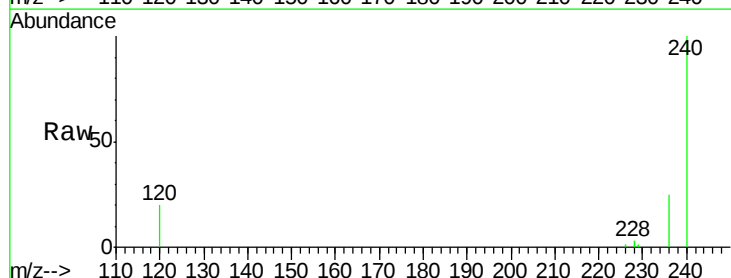


Abundance Ion 202.00 (201.70 to 202.70): E
 Ion 101.00 (100.70 to 101.70): E
 Ion 203.00 (202.70 to 203.70): E

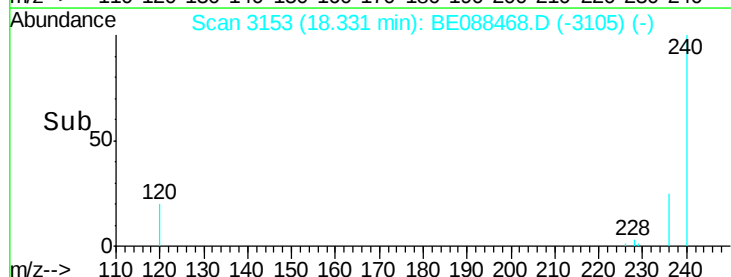
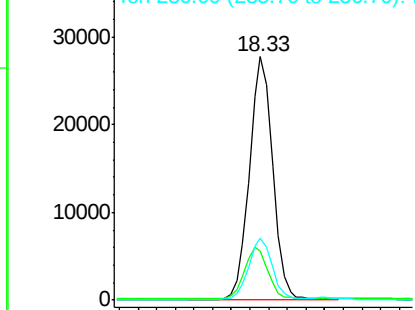


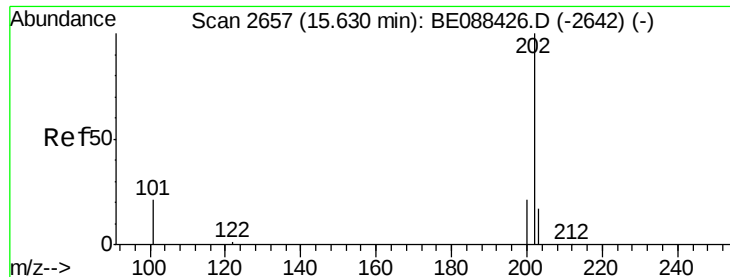
#16
 Chrysene-d12
 Concen: 5.00 ng
 RT: 18.33 min Scan# 3153
 Delta R.T. 0.02 min
 Lab File: BE088468.D
 Acq: 2 Nov 2014 00:50

Tgt Ion: 240 Resp: 47604
 Ion Ratio Lower Upper
 240 100
 120 20.1 16.4 24.6
 236 25.4 20.5 30.7



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

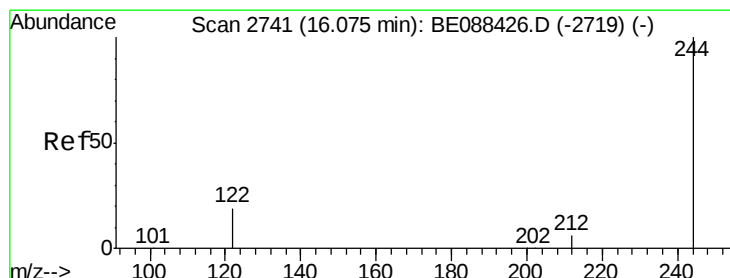
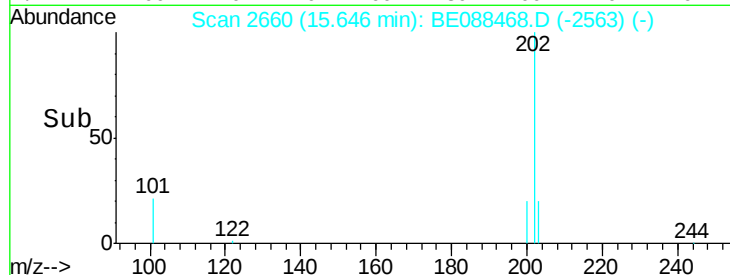
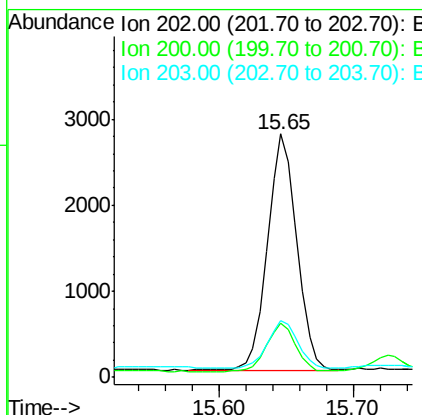
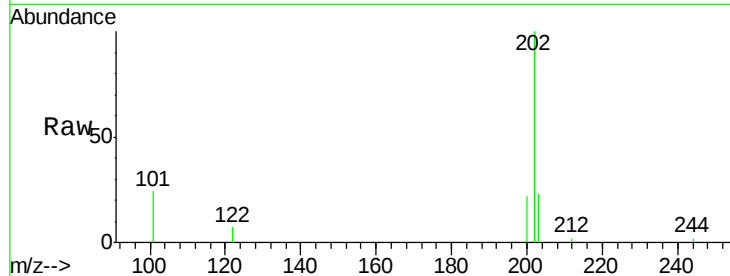




#17
 Pyrene
 Concen: 0.27 ng
 RT: 15.65 min Scan# 2660
 Delta R.T. 0.02 min
 Lab File: BE088468.D
 Acq: 2 Nov 2014 00:50

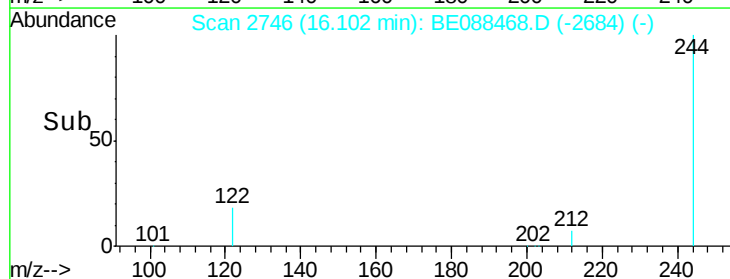
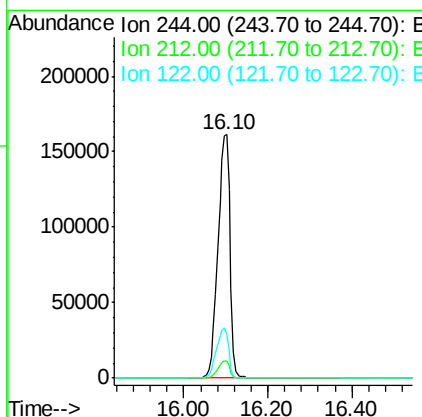
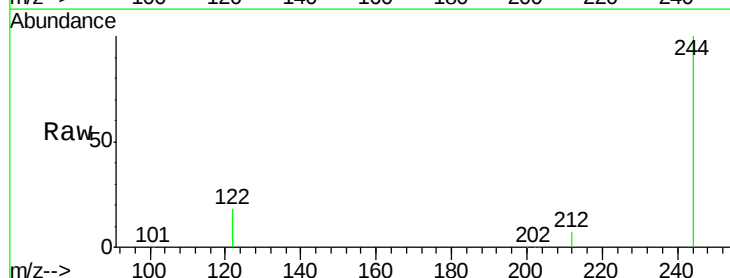
Instrument :
 BNA_E
 ClientSampleId :
 YS19-SS33-1014RE

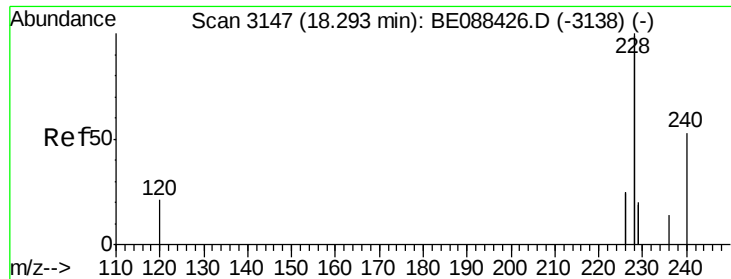
Tgt Ion: 202 Resp: 4152
 Ion Ratio Lower Upper
 202 100
 200 20.2 16.1 24.1
 203 20.2 13.8 20.8



#18
 Terphenyl-d14
 Concen: 36.22 ng
 RT: 16.10 min Scan# 2746
 Delta R.T. 0.03 min
 Lab File: BE088468.D
 Acq: 2 Nov 2014 00:50

Tgt Ion: 244 Resp: 316785
 Ion Ratio Lower Upper
 244 100
 212 6.9 5.5 8.3
 122 18.2 15.6 23.4





#19

Benzo(a)anthracene

Concen: 0.17 ng

RT: 18.31 min Scan# 3150

Delta R.T. 0.02 min

Lab File: BE088468.D

Acq: 2 Nov 2014 00:50

Instrument :

BNA_E

ClientSampleId :

YS19-SS33-1014RE

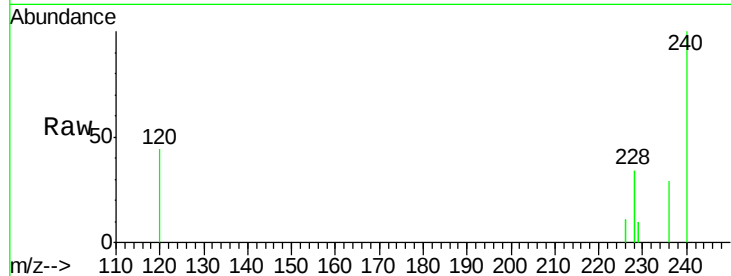
Tgt Ion:228 Resp: 7538

Ion Ratio Lower Upper

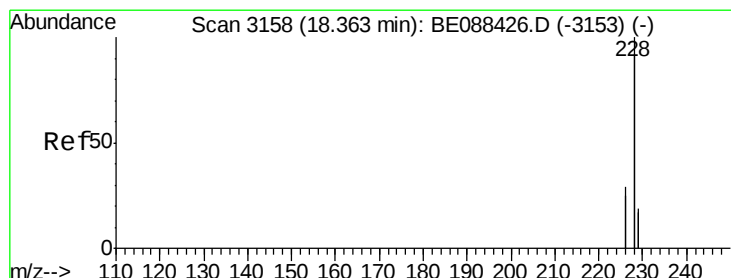
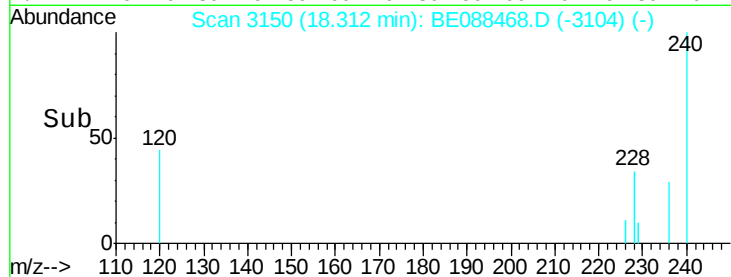
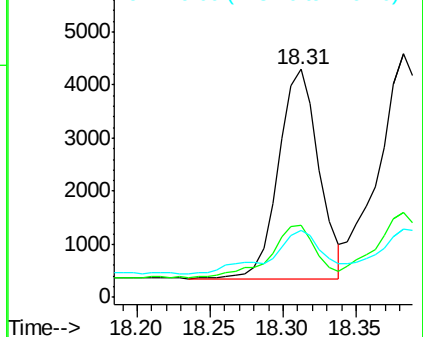
228 100

226 31.5 19.8 29.6#

229 29.5 16.0 24.0#



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: 0.21 ng

RT: 18.38 min Scan# 3161

Delta R.T. 0.02 min

Lab File: BE088468.D

Acq: 2 Nov 2014 00:50

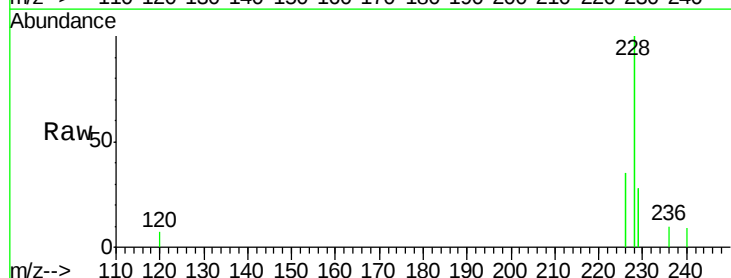
Tgt Ion:228 Resp: 9371

Ion Ratio Lower Upper

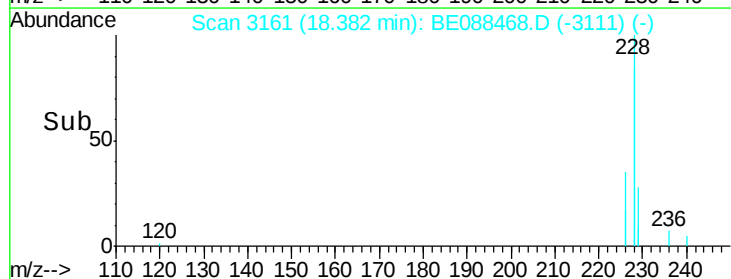
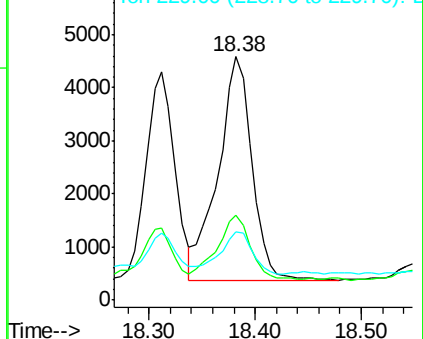
228 100

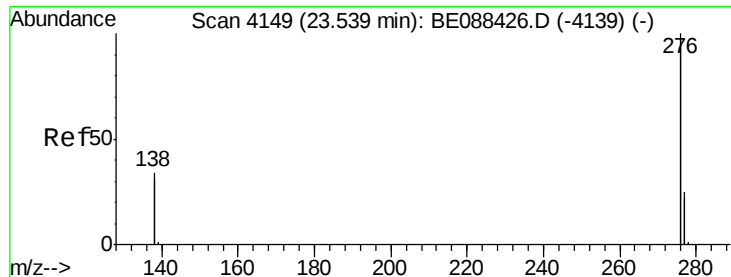
226 35.0 23.6 35.4

229 27.9 15.4 23.2#



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: 0.13 ng

RT: 23.59 min Scan# 4157

Delta R.T. 0.05 min

Lab File: BE088468.D

Acq: 2 Nov 2014 00:50

Instrument :

BNA_E

ClientSampleId :

YS19-SS33-1014RE

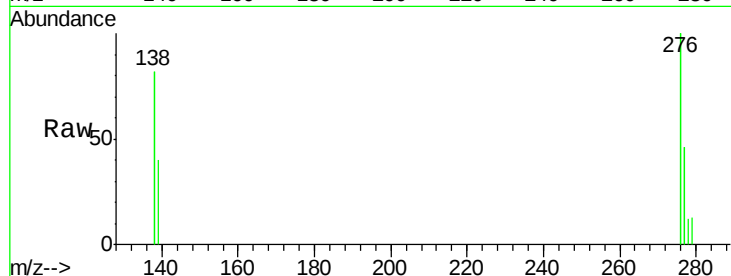
Tgt Ion:276 Resp: 5175

Ion Ratio Lower Upper

276 100

138 62.6 20.2 30.2#

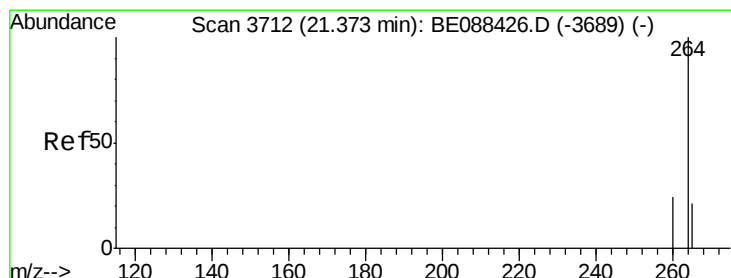
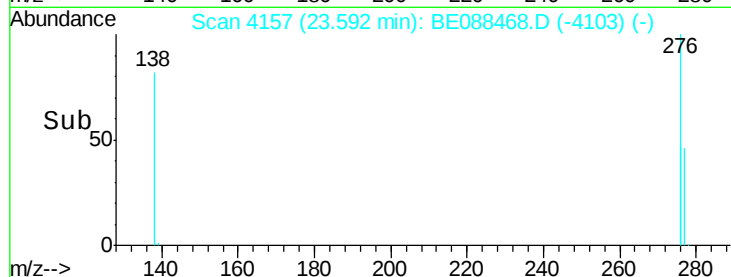
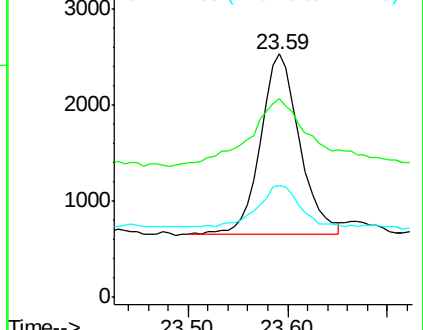
277 24.2 14.8 22.2#



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: 21.41 min Scan# 3719

Delta R.T. 0.03 min

Lab File: BE088468.D

Acq: 2 Nov 2014 00:50

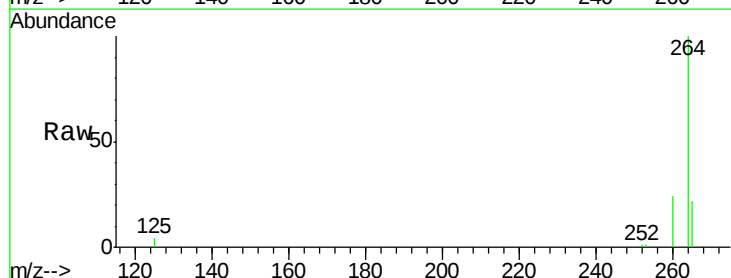
Tgt Ion:264 Resp: 44936

Ion Ratio Lower Upper

264 100

260 23.8 18.9 28.3

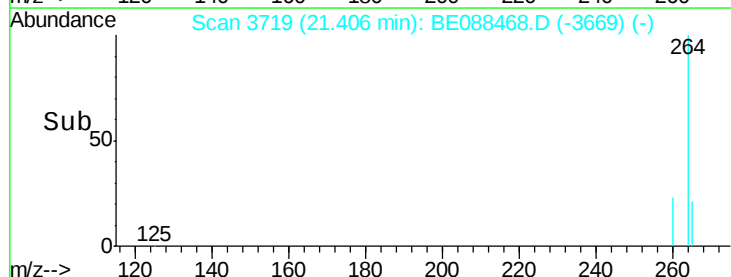
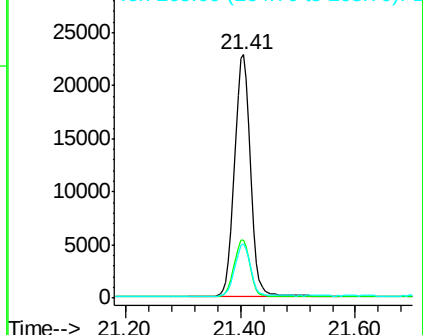
265 22.0 17.2 25.8

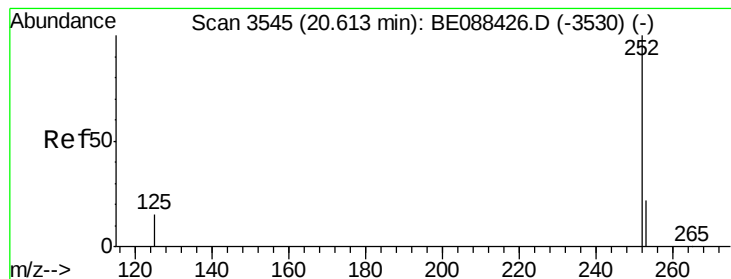


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





#23

Benzo(b)fluoranthene

Concen: 0.31 ng

RT: 20.65 min Scan# 3552

Delta R.T. 0.03 min

Lab File: BE088468.D

Acq: 2 Nov 2014 00:50

Instrument :

BNA_E

ClientSampleId :

YS19-SS33-1014RE

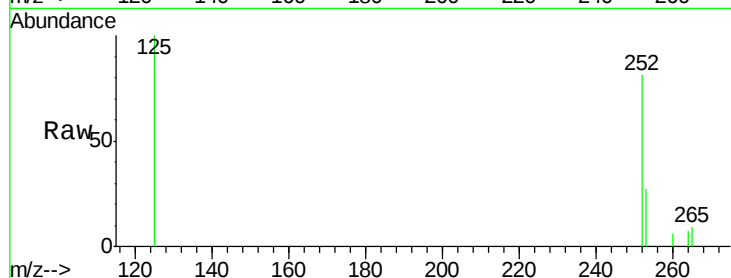
Tgt Ion: 252 Resp: 3073

Ion Ratio Lower Upper

252 100

253 33.6 17.8 26.8#

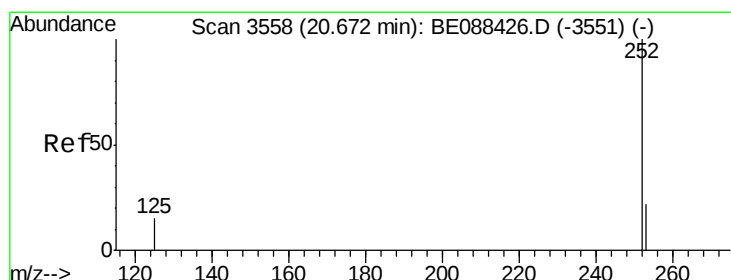
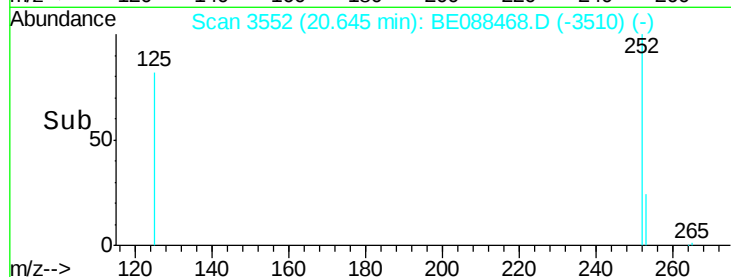
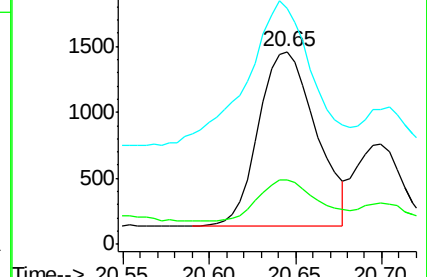
125 122.9 12.3 18.5#



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: 0.11 ng

RT: 20.70 min Scan# 3564

Delta R.T. 0.03 min

Lab File: BE088468.D

Acq: 2 Nov 2014 00:50

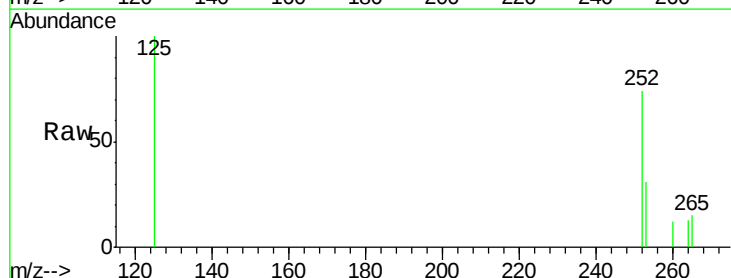
Tgt Ion: 252 Resp: 1192

Ion Ratio Lower Upper

252 100

253 42.0 17.8 26.8#

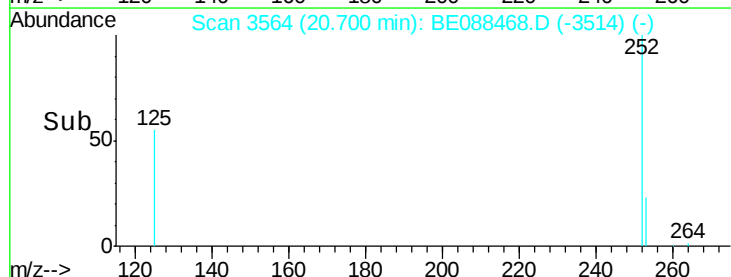
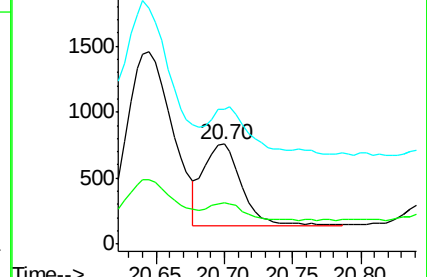
125 134.8 12.2 18.4#

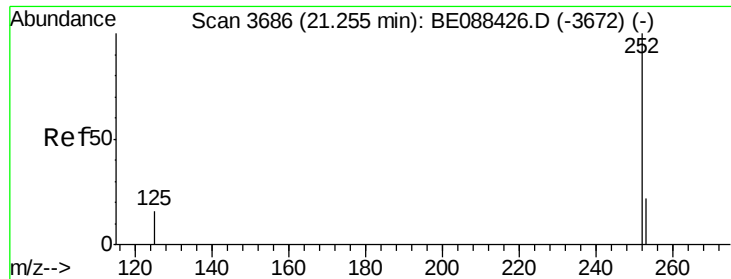


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#25

Benzo(a)pyrene

Concen: 0.17 ng

RT: 21.28 min Scan# 3692

Delta R.T. 0.03 min

Lab File: BE088468.D

Acq: 2 Nov 2014 00:50

Instrument :

BNA_E

ClientSampleId :

YS19-SS33-1014RE

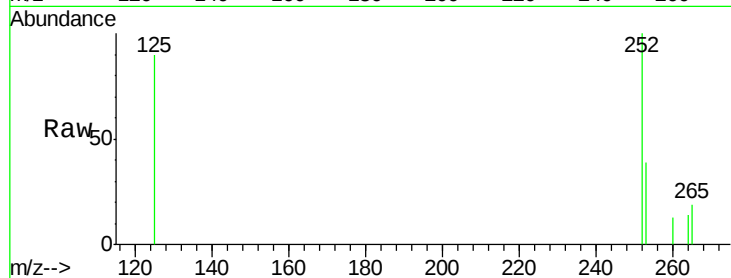
Tgt Ion:252 Resp: 1593

Ion Ratio Lower Upper

252 100

253 38.8 18.2 27.4#

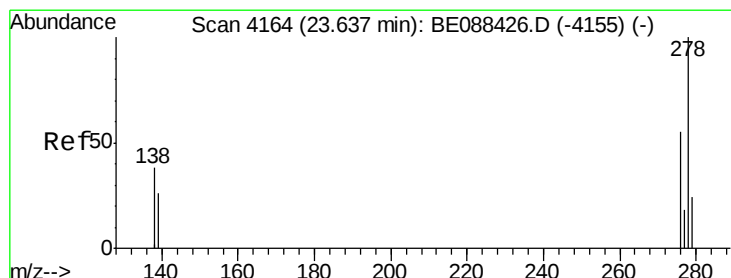
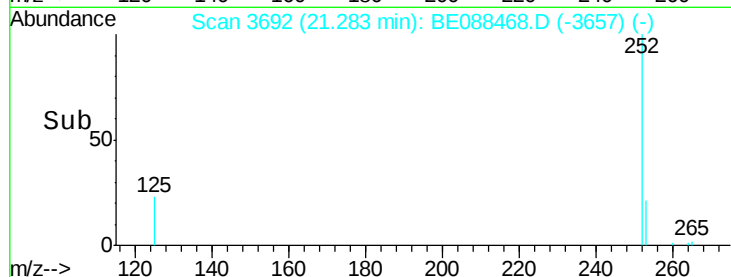
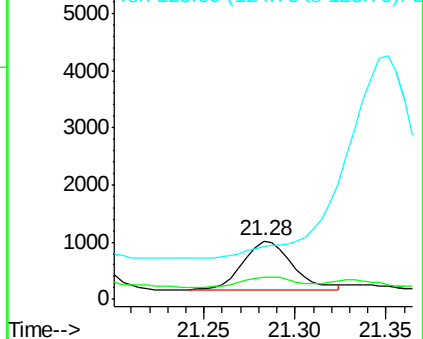
125 90.3 13.7 20.5#



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: 0.03 ng

RT: 23.68 min Scan# 4171

Delta R.T. 0.05 min

Lab File: BE088468.D

Acq: 2 Nov 2014 00:50

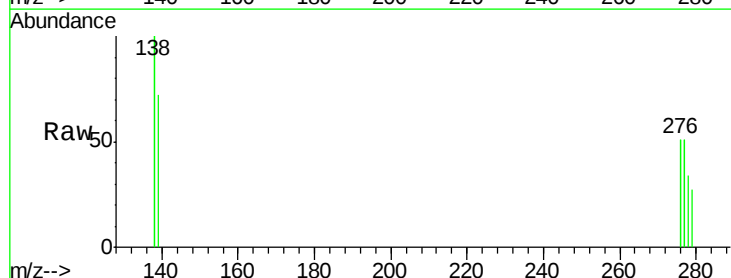
Tgt Ion:278 Resp: 303

Ion Ratio Lower Upper

278 100

139 209.6 22.1 33.1#

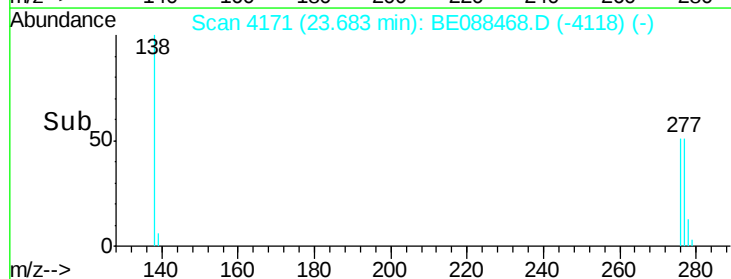
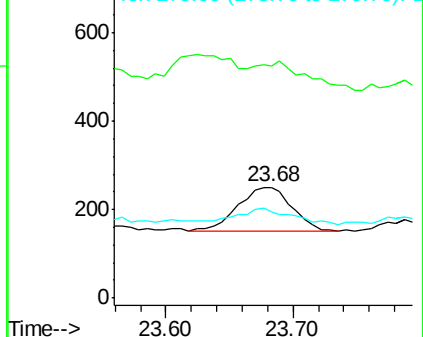
279 78.1 19.7 29.5#

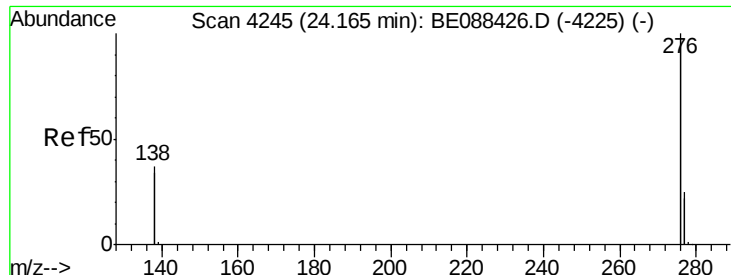


Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E





#27

Benzo(g,h,i)perylene

Concen: 0.13 ng

RT: 24.22 min Scan# 4254

Delta R.T. 0.06 min

Lab File: BE088468.D

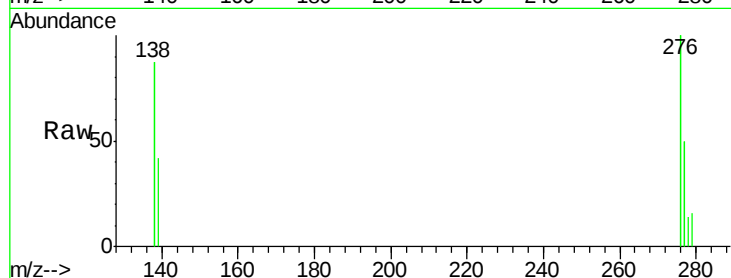
Acq: 2 Nov 2014 00:50

Instrument :

BNA_E

ClientSampleId :

YS19-SS33-1014RE



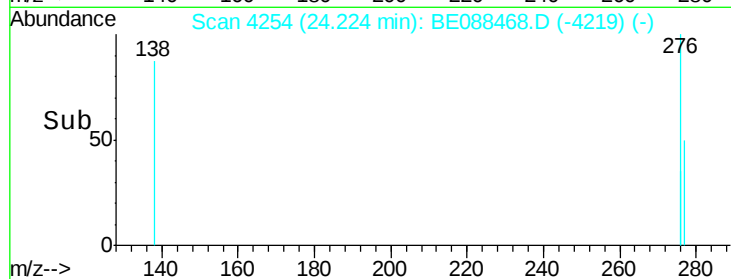
Tgt Ion: 276 Resp: 5075

Ion Ratio Lower Upper

276 100

277 49.5 19.8 29.6#

138 87.2 29.3 43.9#



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

