

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE103114\
 Data File : BE088470.D
 Acq On : 2 Nov 2014 1:59
 Operator : TP/JJ
 Sample : F4379-07DL 2X
 Misc :
 ALS Vial : 45 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 YS19-SS29-1014DL

Quant Time: Nov 02 04:24:15 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	24231	5.00	ng	0.00
3) Naphthalene-d8	8.65	136	88733	5.00	ng	0.00
7) Acenaphthene-d10	10.80	164	41976	5.00	ng	0.01
12) Phenanthrene-d10	12.91	188	86170	5.00	ng	0.00
16) Chrysene-d12	18.34	240	55009	5.00	ng	0.03
22) Perylene-d12	21.40	264	53857	5.00	ng	0.03

System Monitoring Compounds						
4) Nitrobenzene-d5	7.79	82	282787	43.46	ng	0.01
8) 2-Fluorobiphenyl	9.99	172	361660	30.57	ng	0.00
18) Terphenyl-d14	16.10	244	281605	27.87	ng	0.02

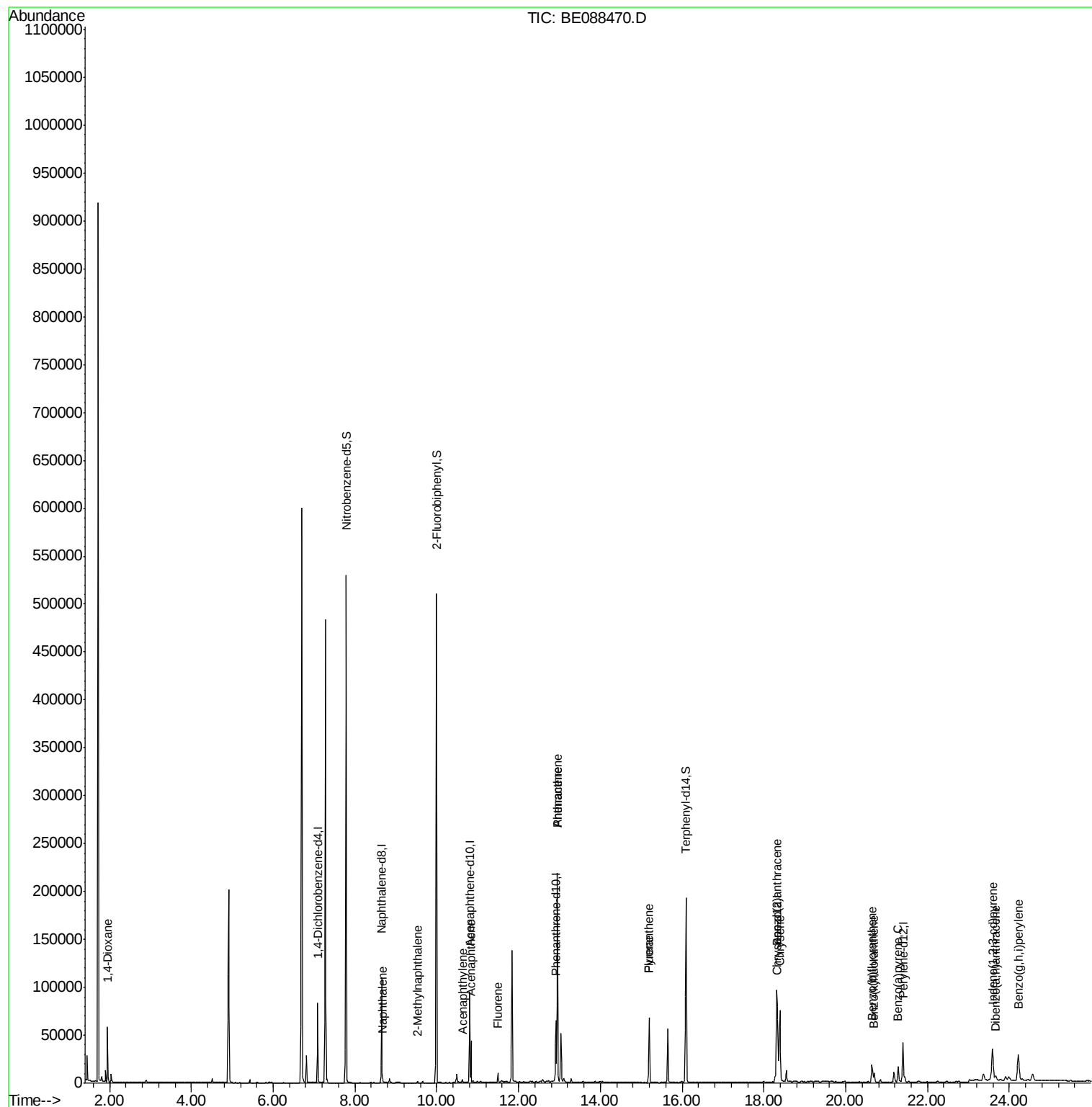
Target Compounds						Qvalue
2) 1,4-Dioxane	1.96	88	1727	0.54	ng	# 1
5) Naphthalene	8.68	128	3247	0.18	ng	97
6) 2-Methylnaphthalene	9.53	142	845	0.07	ng	98
9) Acenaphthylene	10.63	152	4617	0.07	ng	# 75
10) Acenaphthene	10.84	154	5719	0.57	ng	98
11) Fluorene	11.49	166	5005	0.47	ng	99
13) Phenanthrene	12.95	178	300537	3.84	ng	100
14) Anthracene	12.95	178	300537	4.75	ng	99
15) Fluoranthene	15.19	202	65851	5.18	ng	100
17) Pyrene	15.19	202	65308	3.64	ng	100
19) Benzo(a)anthracene	18.31	228	108176	2.09	ng	98
20) Chrysene	18.39	228	100443	1.98	ng	96
21) Indeno(1,2,3-cd)pyrene	23.59	276	61930	1.31	ng	# 88
23) Benzo(b)fluoranthene	20.64	252	31619	2.68	ng	# 95
24) Benzo(k)fluoranthene	20.70	252	11603	0.89	ng	# 93
25) Benzo(a)pyrene	21.28	252	22442	1.98	ng	97
26) Dibenzo(a,h)anthracene	23.67	278	3152	0.30	ng	# 67
27) Benzo(g,h,i)perylene	24.22	276	55899	1.16	ng	97

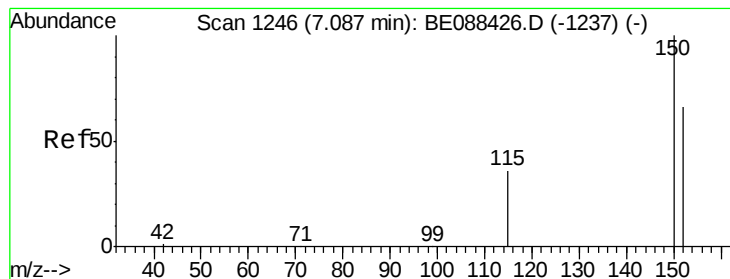
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: BE088470.D

Acq: 2 Nov 2014 1:59

Instrument :

BNA_E

ClientSampleId :

YS19-SS29-1014DL

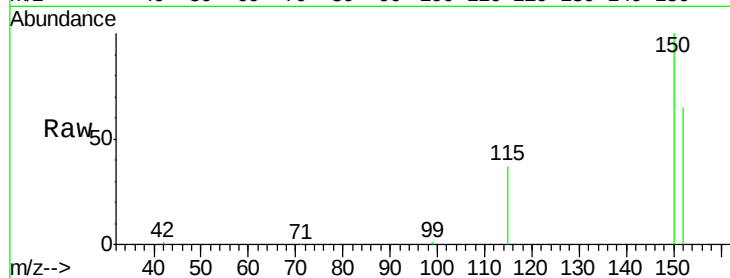
Tgt Ion:152 Resp: 24231

Ion Ratio Lower Upper

152 100

150 153.2 121.8 182.8

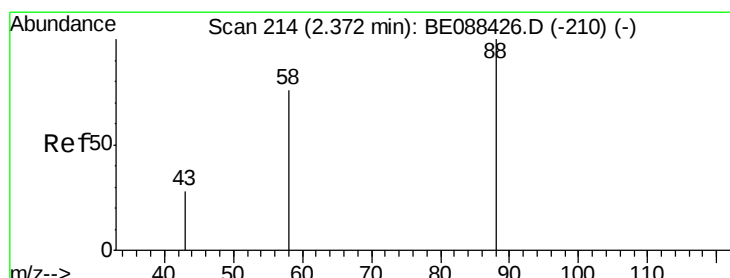
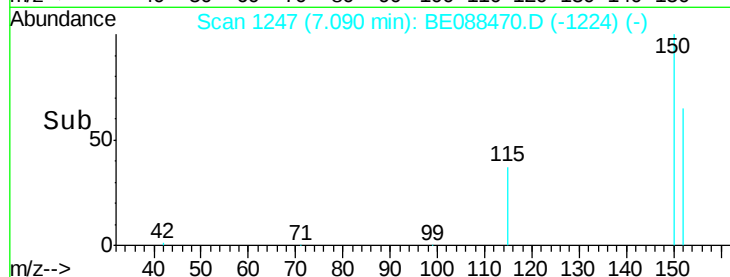
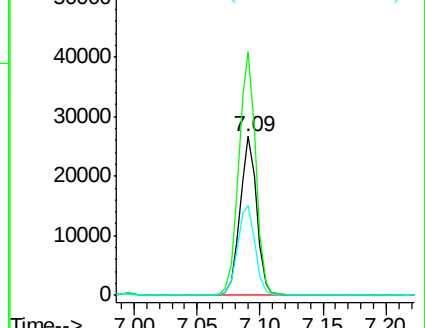
115 57.0 43.9 65.9



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: 0.54 ng

RT: 1.96 min Scan# 123

Delta R.T. -0.42 min

Lab File: BE088470.D

Acq: 2 Nov 2014 1:59

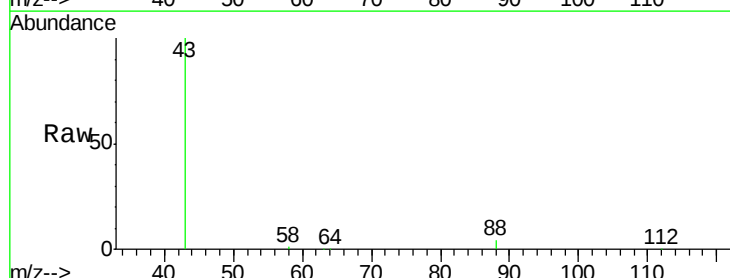
Tgt Ion: 88 Resp: 1727

Ion Ratio Lower Upper

88 100

58 25.7 59.1 88.7#

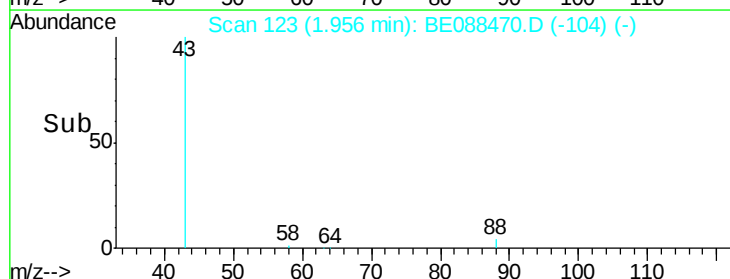
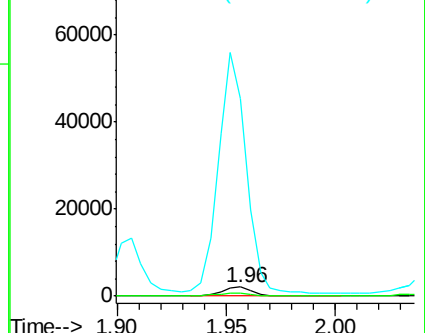
43 2802.7 21.9 32.9#

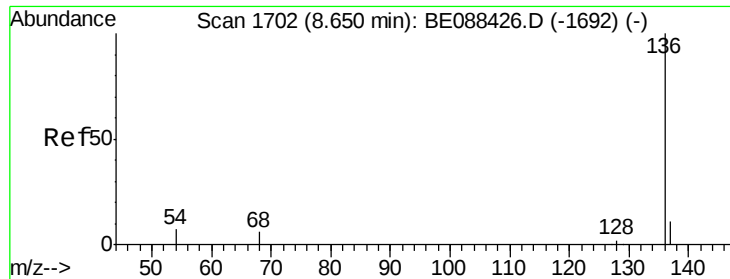


Abundance Ion 88.00 (87.70 to 88.70): BE0

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: BE088470.D

Acq: 2 Nov 2014 1:59

Instrument :

BNA_E

ClientSampleId :

YS19-SS29-1014DL

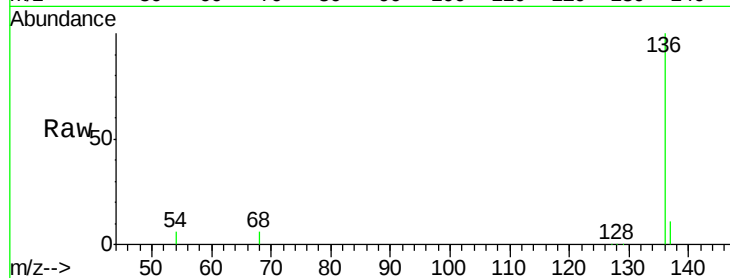
Tgt Ion:136 Resp: 88733

Ion Ratio Lower Upper

136 100

137 11.3 8.8 13.2

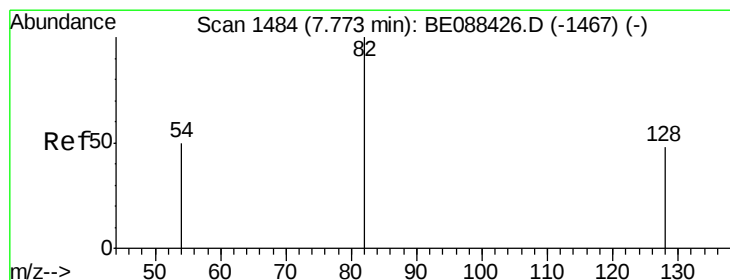
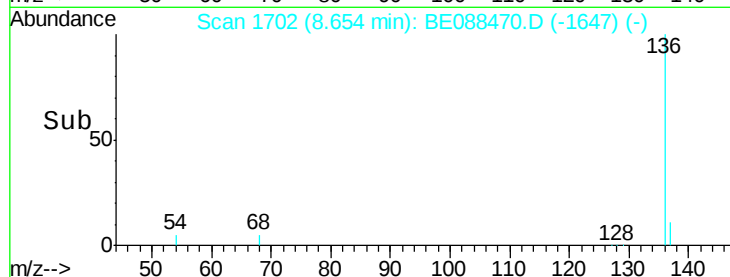
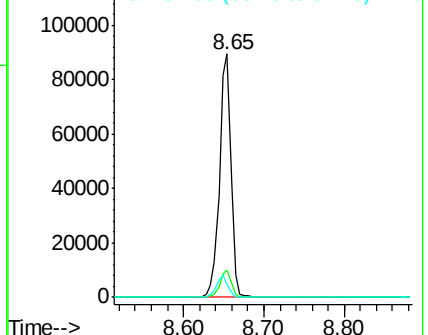
54 5.5 5.3 7.9



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: 43.46 ng

RT: 7.79 min Scan# 1489

Delta R.T. 0.01 min

Lab File: BE088470.D

Acq: 2 Nov 2014 1:59

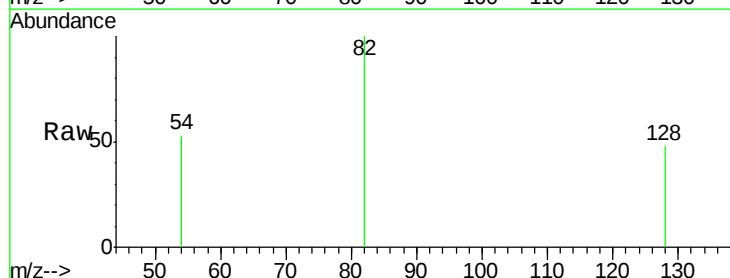
Tgt Ion: 82 Resp: 282787

Ion Ratio Lower Upper

82 100

128 48.0 38.4 57.6

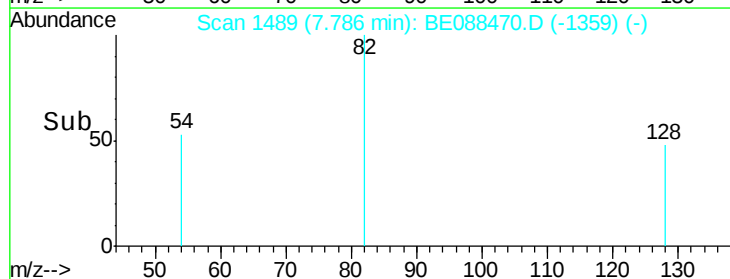
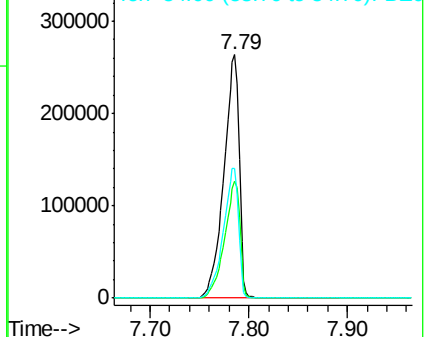
54 53.1 40.2 60.2



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: 0.18 ng

RT: 8.68 min Scan# 1706

Delta R.T. 0.00 min

Lab File: BE088470.D

Acq: 2 Nov 2014 1:59

Instrument :

BNA_E

ClientSampleId :

YS19-SS29-1014DL

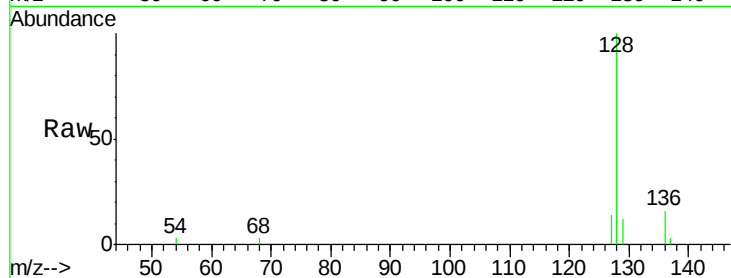
Tgt Ion:128 Resp: 3247

Ion Ratio Lower Upper

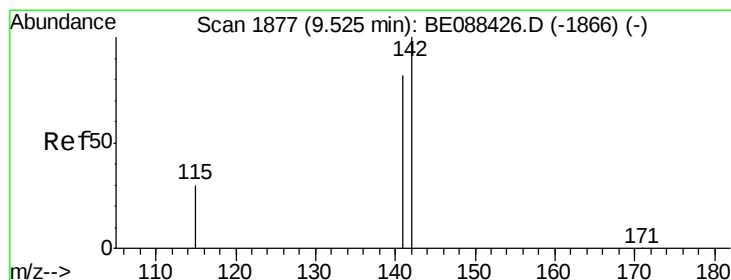
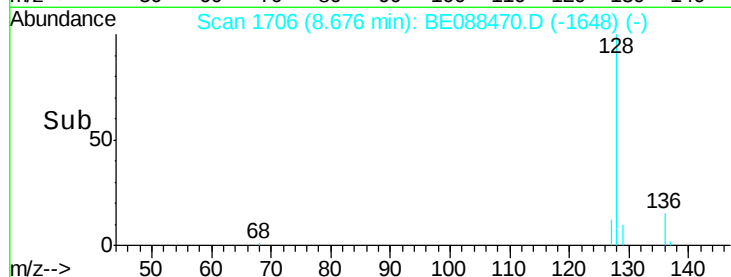
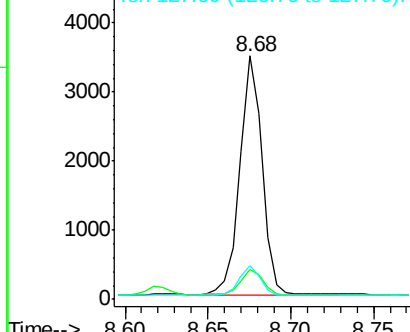
128 100

129 12.3 8.6 12.8

127 13.6 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



#6

2-Methylnaphthalene

Concen: 0.07 ng

RT: 9.53 min Scan# 1877

Delta R.T. 0.00 min

Lab File: BE088470.D

Acq: 2 Nov 2014 1:59

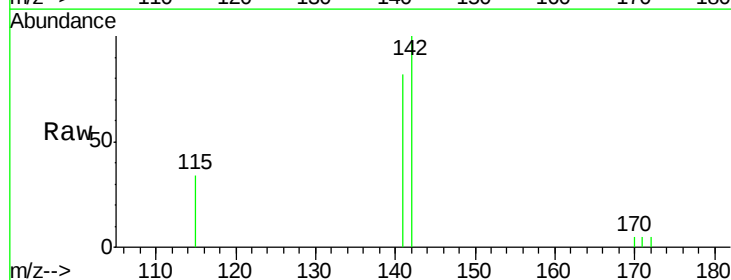
Tgt Ion:142 Resp: 845

Ion Ratio Lower Upper

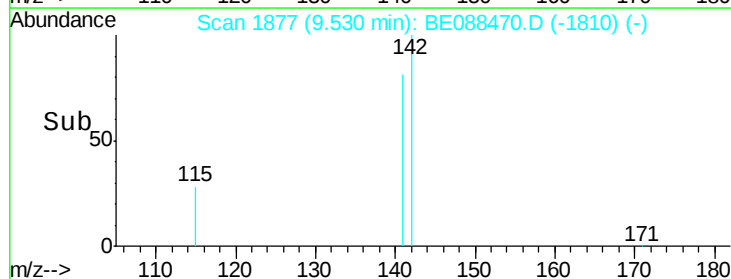
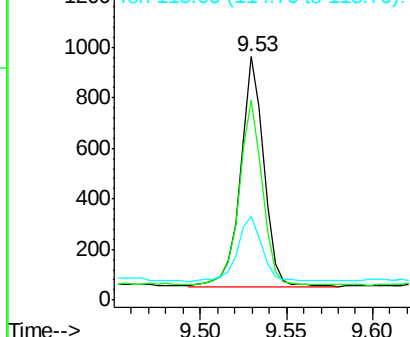
142 100

141 82.0 65.8 98.8

115 34.3 24.2 36.4



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: 10.80 min Scan# 2109

Delta R.T. 0.01 min

Lab File: BE088470.D

Acq: 2 Nov 2014 1:59

Instrument :

BNA_E

ClientSampleId :

YS19-SS29-1014DL

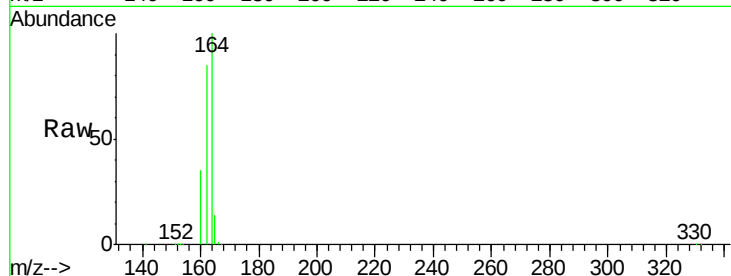
Tgt Ion:164 Resp: 41976

Ion Ratio Lower Upper

164 100

162 84.6 77.0 115.4

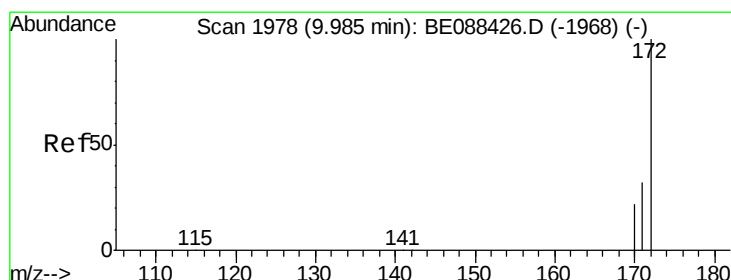
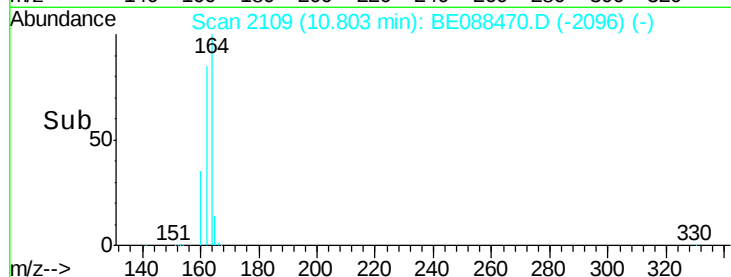
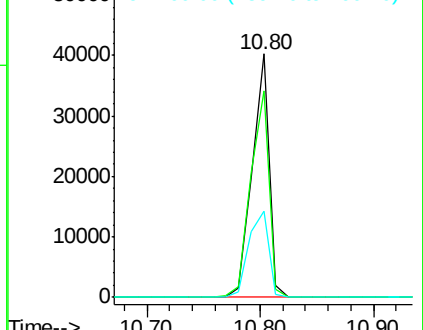
160 35.3 36.8 55.2#



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



#8

2-Fluorobiphenyl

Concen: 30.57 ng

RT: 9.99 min Scan# 1979

Delta R.T. 0.01 min

Lab File: BE088470.D

Acq: 2 Nov 2014 1:59

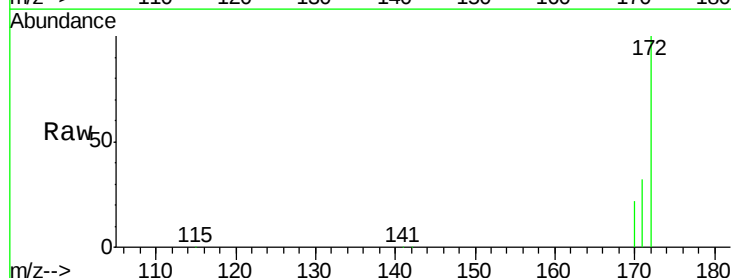
Tgt Ion:172 Resp: 361660

Ion Ratio Lower Upper

172 100

171 32.4 26.0 39.0

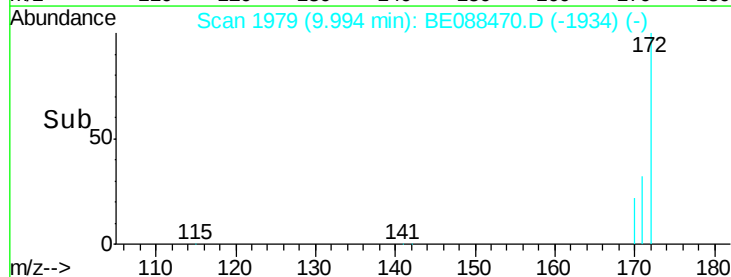
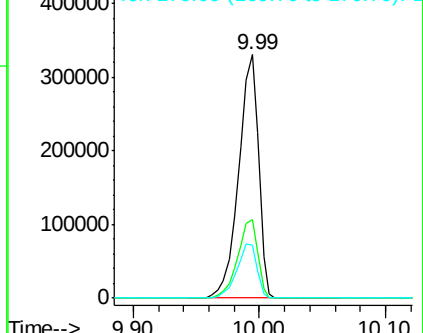
170 21.7 17.6 26.4



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: 0.07 ng

RT: 10.63 min Scan# 2093

Delta R.T. 0.01 min

Lab File: BE088470.D

Acq: 2 Nov 2014 1:59

Instrument :

BNA_E

ClientSampleId :

YS19-SS29-1014DL

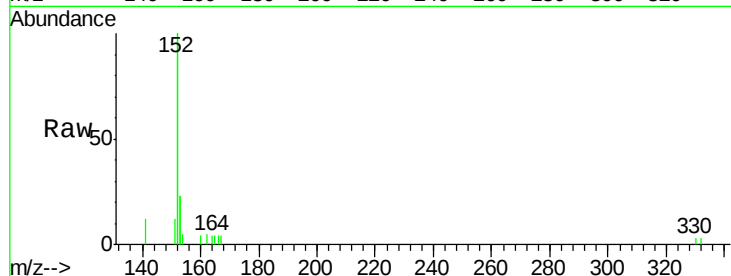
Tgt Ion:152 Resp: 4617

Ion Ratio Lower Upper

152 100

151 3.4 4.4 6.6#

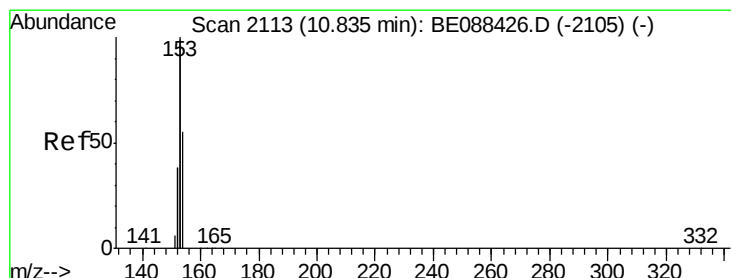
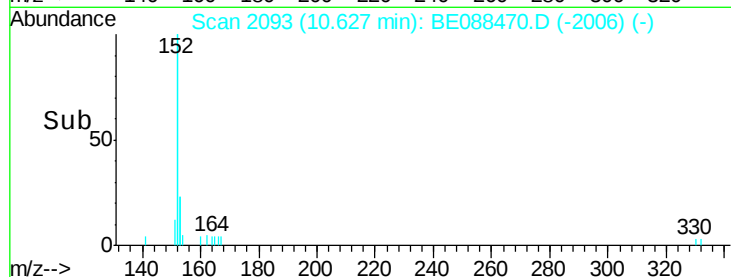
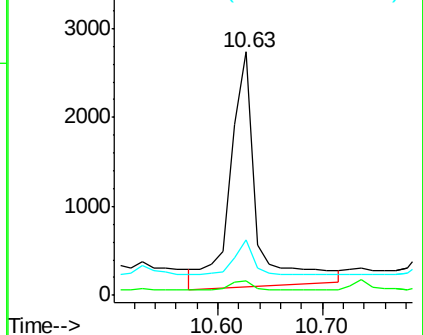
153 0.0 10.5 15.7#



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



#10

Acenaphthene

Concen: 0.57 ng

RT: 10.84 min Scan# 2112

Delta R.T. 0.00 min

Lab File: BE088470.D

Acq: 2 Nov 2014 1:59

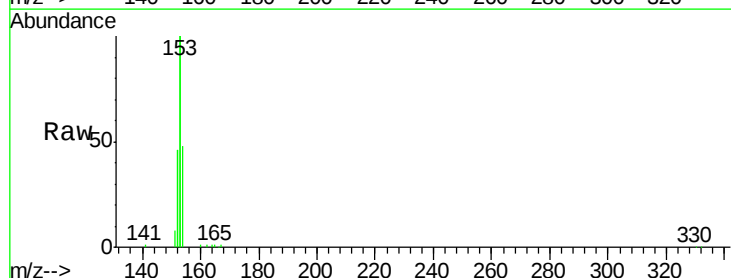
Tgt Ion:154 Resp: 5719

Ion Ratio Lower Upper

154 100

153 403.4 324.3 486.5

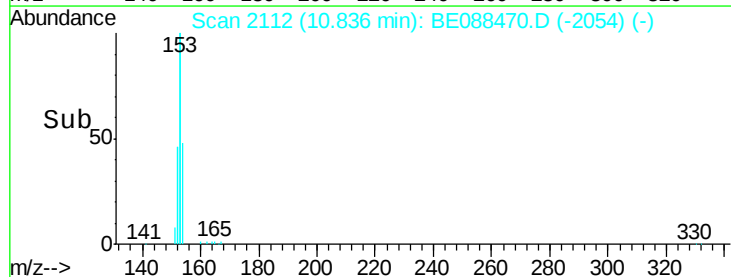
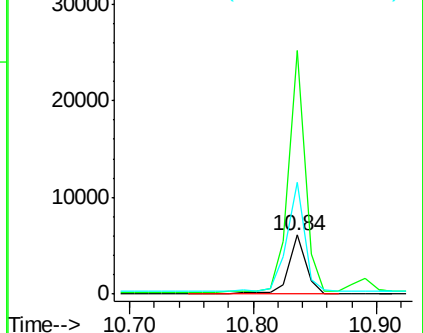
152 201.8 154.9 232.3

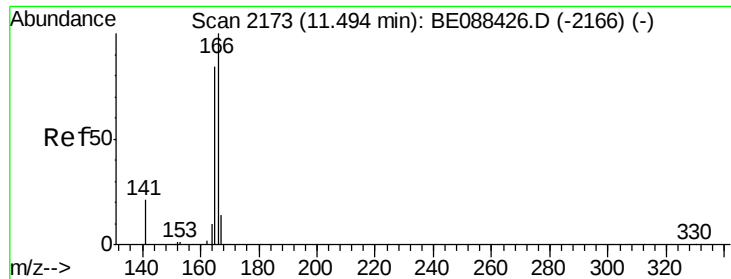


Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E





#11

Fluorene

Concen: 0.47 ng

RT: 11.49 min Scan# 2172

Delta R.T. 0.00 min

Lab File: BE088470.D

Acq: 2 Nov 2014 1:59

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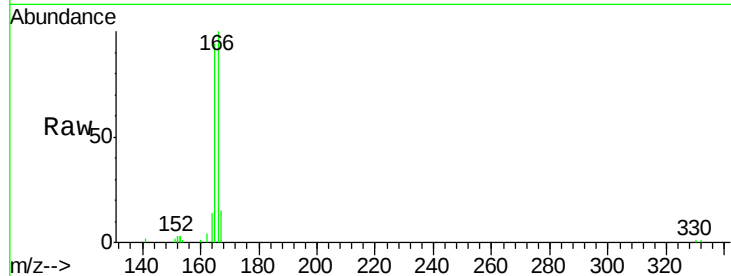
Tgt Ion:166 Resp: 5005

Ion Ratio Lower Upper

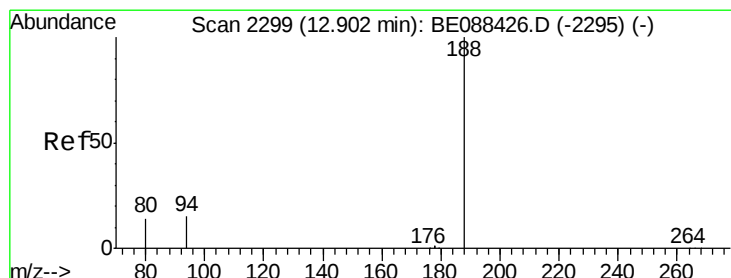
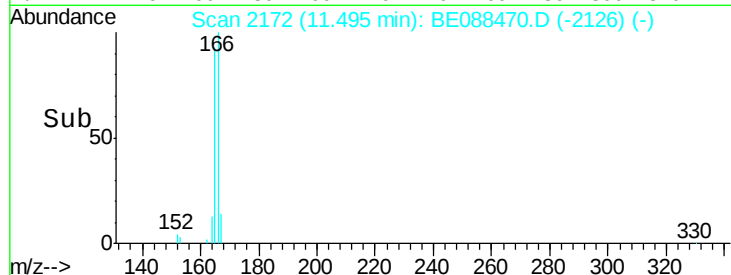
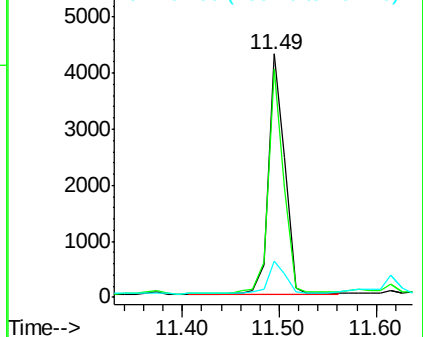
166 100

165 89.5 71.3 106.9

167 14.3 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# 2299

Delta R.T. 0.01 min

Lab File: BE088470.D

Acq: 2 Nov 2014 1:59

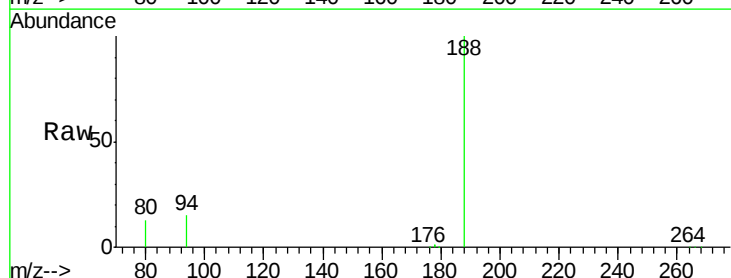
Tgt Ion:188 Resp: 86170

Ion Ratio Lower Upper

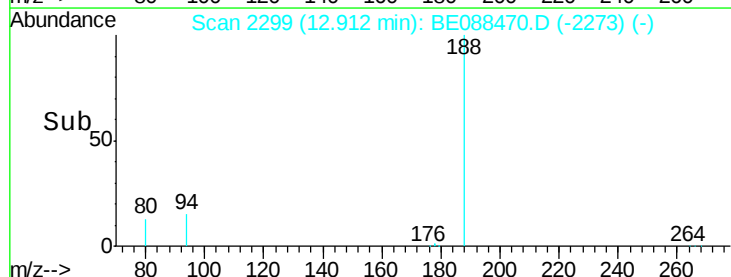
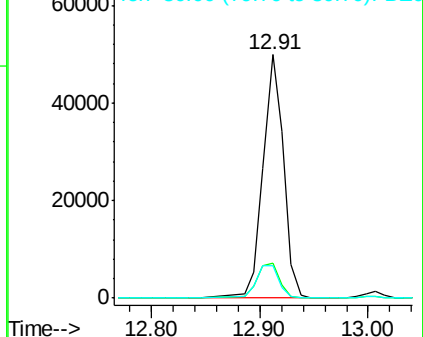
188 100

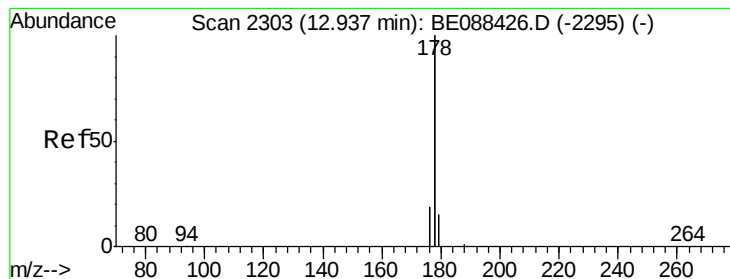
94 14.5 11.8 17.8

80 13.4 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: 3.84 ng

RT: 12.95 min Scan# 2304

Delta R.T. 0.02 min

Lab File: BE088470.D

Acq: 2 Nov 2014 1:59

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YS19-SS29-1014DL

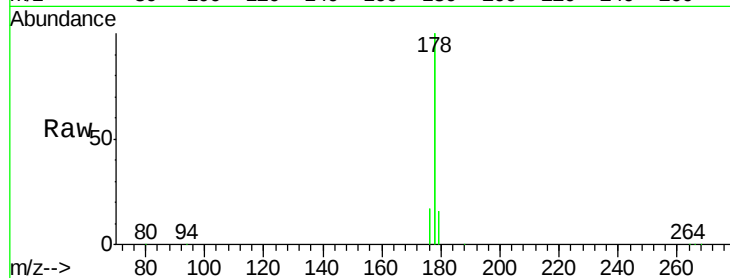
Tgt Ion:178 Resp: 300537

Ion Ratio Lower Upper

178 100

176 19.0 15.4 23.2

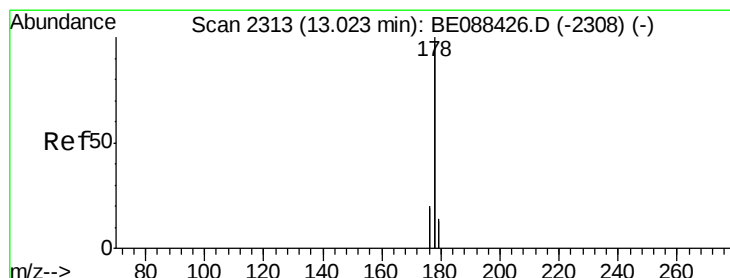
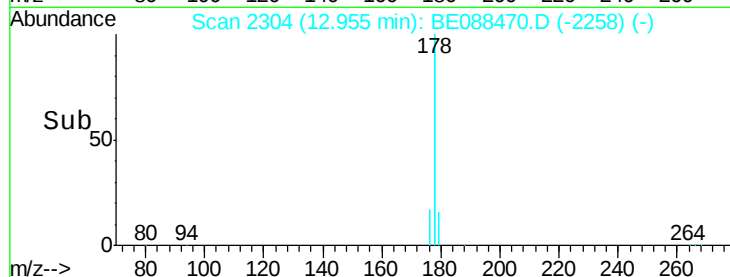
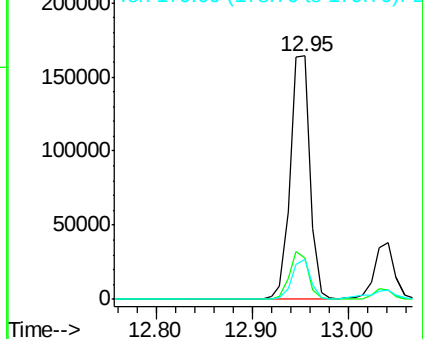
179 16.1 12.8 19.2



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#14

Anthracene

Concen: 4.75 ng

RT: 12.95 min Scan# 2304

Delta R.T. -0.07 min

Lab File: BE088470.D

Acq: 2 Nov 2014 1:59

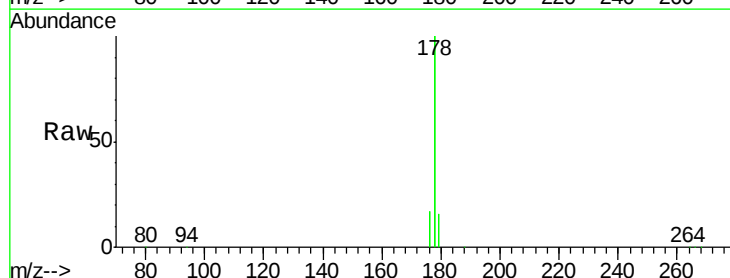
Tgt Ion:178 Resp: 300537

Ion Ratio Lower Upper

178 100

176 19.0 15.0 22.4

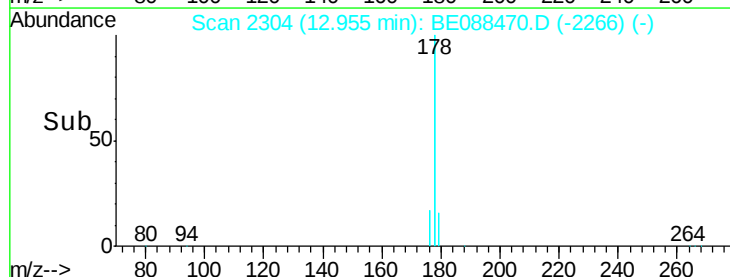
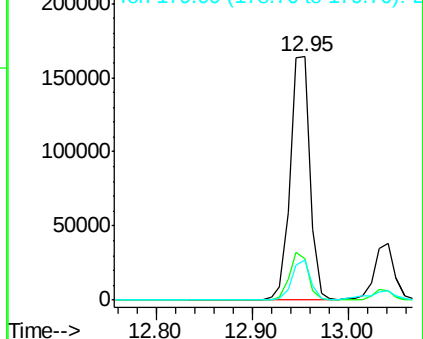
179 16.1 12.5 18.7

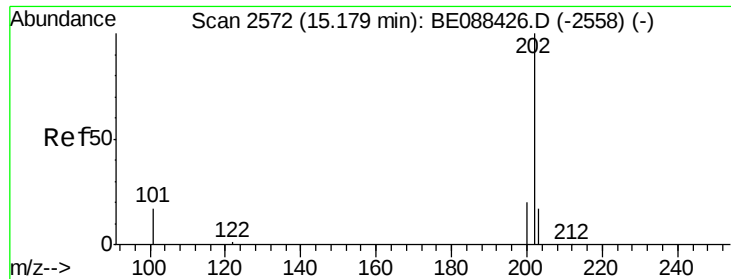


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E

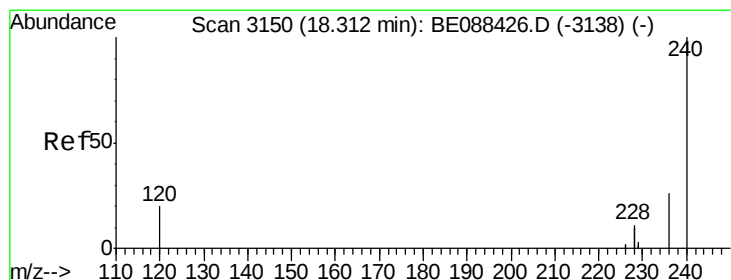
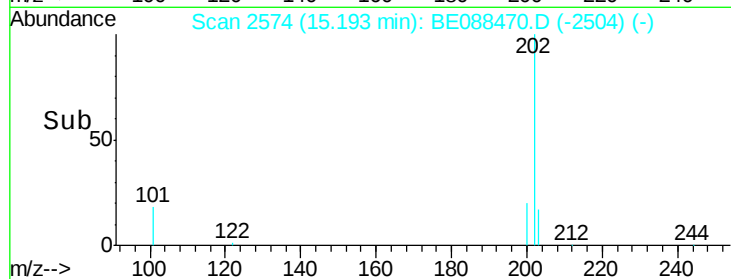
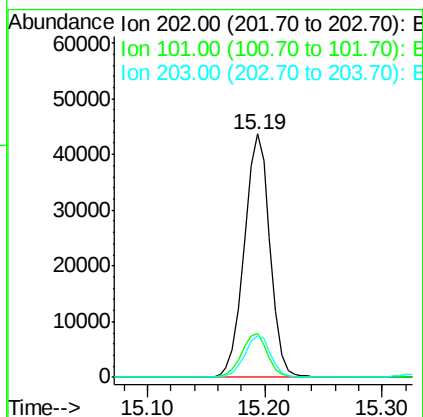
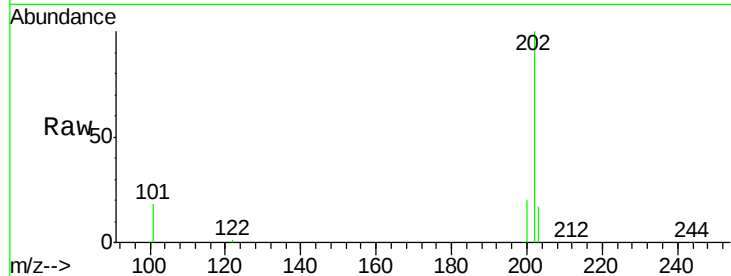




#15
 Fluoranthene
 Concen: 5.18 ng
 RT: 15.19 min Scan# 2574
 Delta R.T. 0.01 min
 Lab File: BE088470.D
 Acq: 2 Nov 2014 1:59

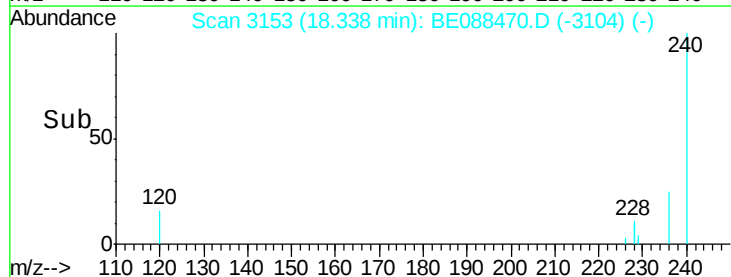
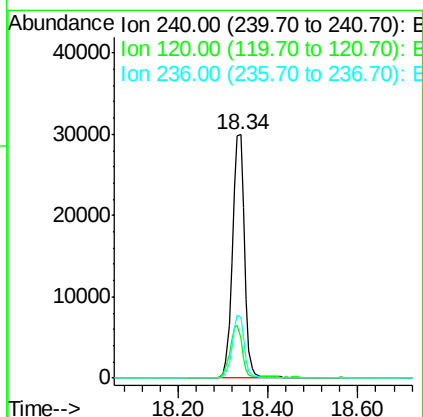
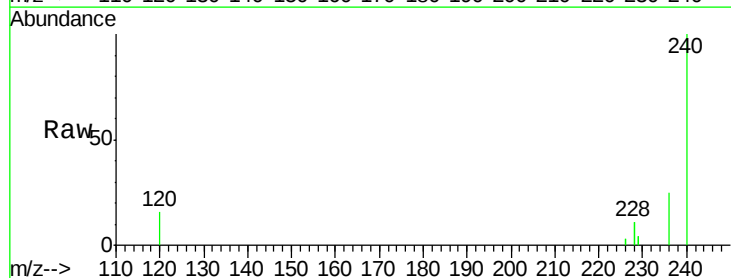
Instrument :
 BNA_E
 ClientSampleId :
 YS19-SS29-1014DL

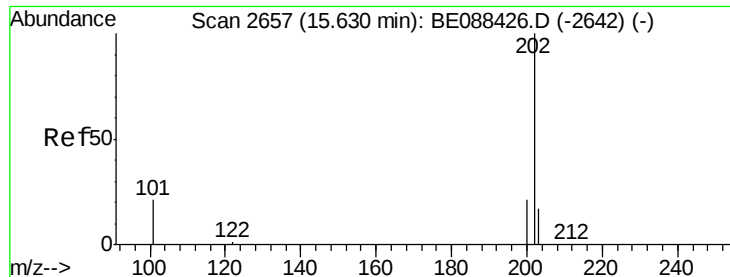
Tgt Ion: 202 Resp: 65851
 Ion Ratio Lower Upper
 202 100
 101 17.7 14.3 21.5
 203 17.2 13.6 20.4



#16
 Chrysene-d12
 Concen: 5.00 ng
 RT: 18.34 min Scan# 3153
 Delta R.T. 0.03 min
 Lab File: BE088470.D
 Acq: 2 Nov 2014 1:59

Tgt Ion: 240 Resp: 55009
 Ion Ratio Lower Upper
 240 100
 120 16.3 16.4 24.6#
 236 25.1 20.5 30.7

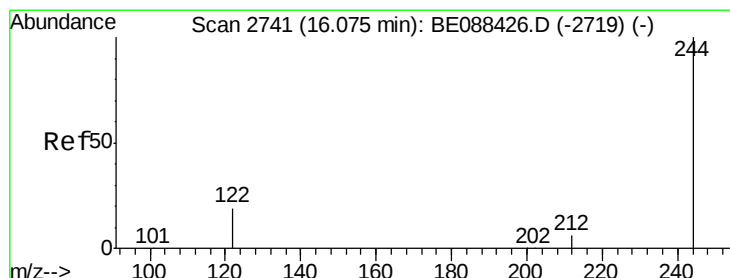
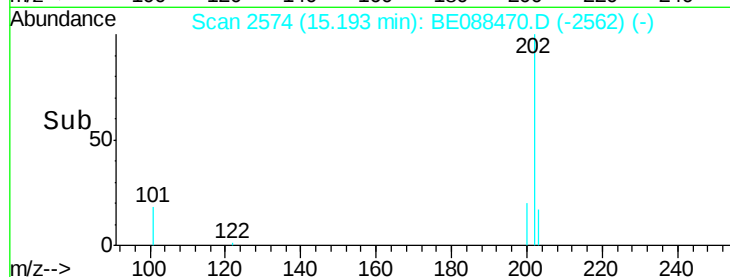
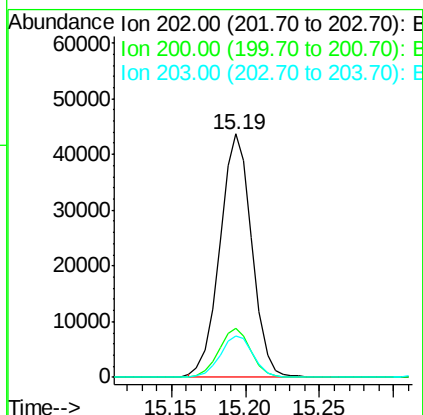
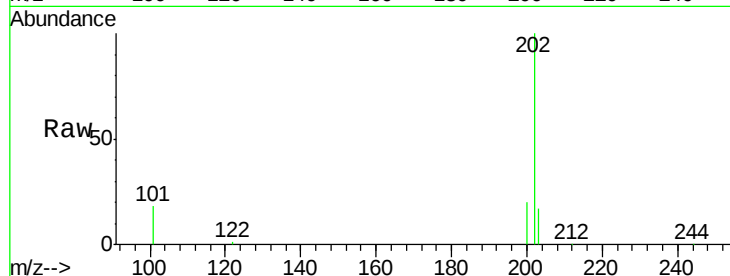




#17
 Pyrene
 Concen: 3.64 ng
 RT: 15.19 min Scan# 2574
 Delta R.T. -0.44 min
 Lab File: BE088470.D
 Acq: 2 Nov 2014 1:59

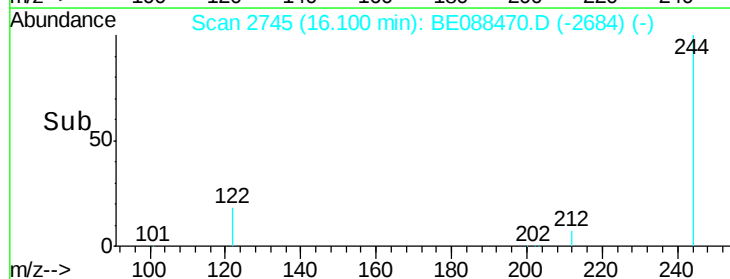
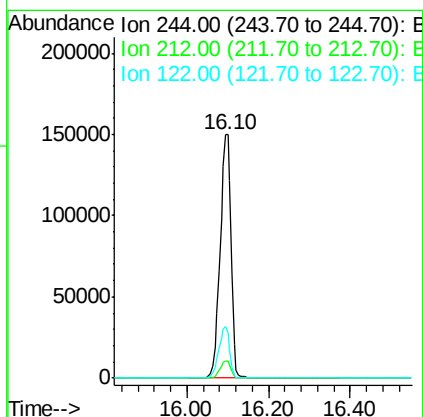
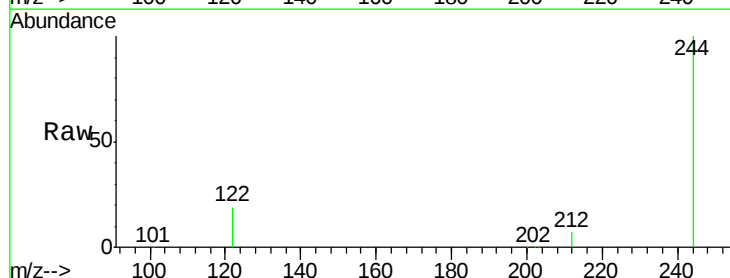
Instrument :
 BNA_E
 ClientSampleId :
 YS19-SS29-1014DL

Tgt Ion: 202 Resp: 65308
 Ion Ratio Lower Upper
 202 100
 200 20.0 16.1 24.1
 203 17.3 13.8 20.8



#18
 Terphenyl-d14
 Concen: 27.87 ng
 RT: 16.10 min Scan# 2745
 Delta R.T. 0.02 min
 Lab File: BE088470.D
 Acq: 2 Nov 2014 1:59

Tgt Ion: 244 Resp: 281605
 Ion Ratio Lower Upper
 244 100
 212 7.0 5.5 8.3
 122 18.5 15.6 23.4





#19

Benzo(a)anthracene

Concen: 2.09 ng

RT: 18.31 min Scan# 3149

Delta R.T. 0.02 min

Lab File: BE088470.D

Acq: 2 Nov 2014 1:59

Instrument :

BNA_E

ClientSampleId :

YS19-SS29-1014DL

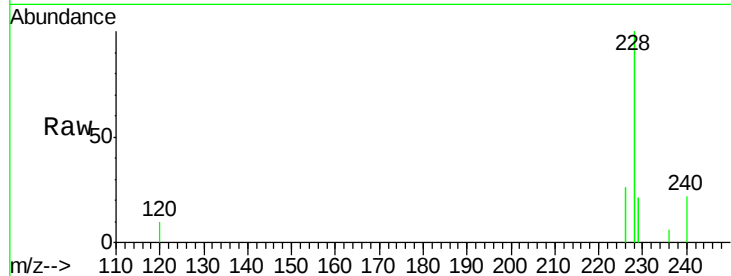
Tgt Ion:228 Resp: 108176

Ion Ratio Lower Upper

228 100

226 25.5 19.8 29.6

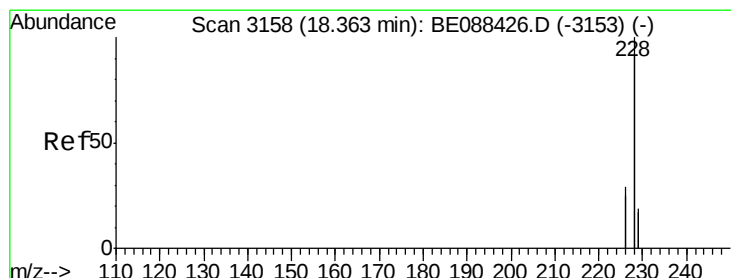
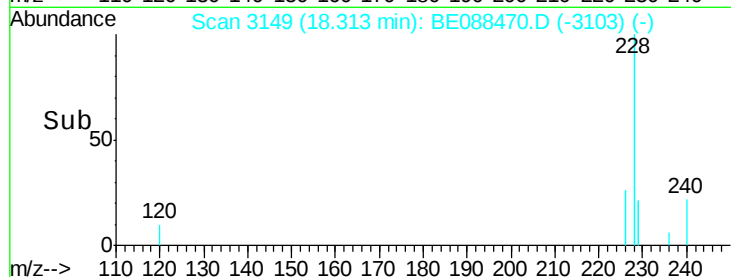
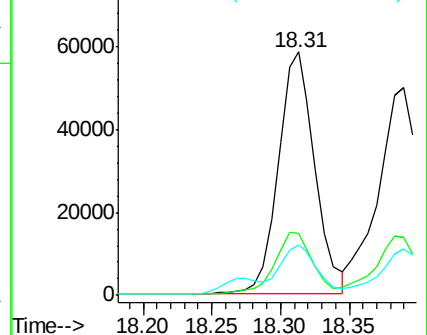
229 20.9 16.0 24.0



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: 1.98 ng

RT: 18.39 min Scan# 3161

Delta R.T. 0.03 min

Lab File: BE088470.D

Acq: 2 Nov 2014 1:59

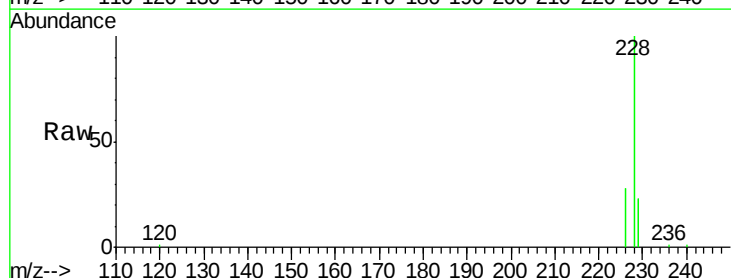
Tgt Ion:228 Resp: 100443

Ion Ratio Lower Upper

228 100

226 28.3 23.6 35.4

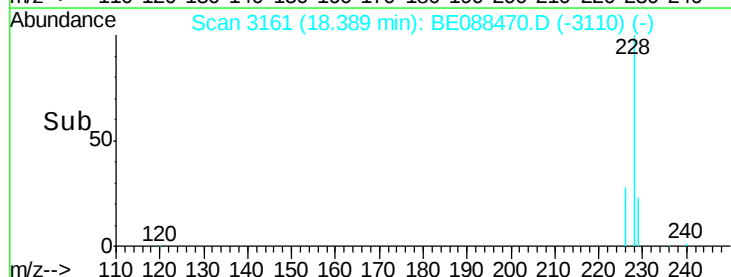
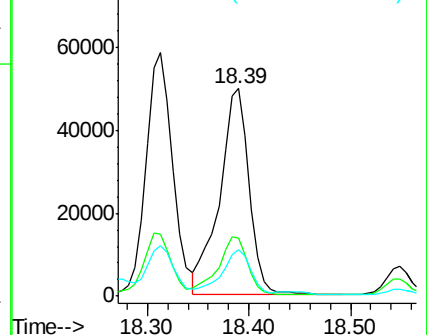
229 22.5 15.4 23.2



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: 1.31 ng

RT: 23.59 min Scan# 4156

Delta R.T. 0.05 min

Lab File: BE088470.D

Acq: 2 Nov 2014 1:59

Instrument :

BNA_E

ClientSampleId :

YS19-SS29-1014DL

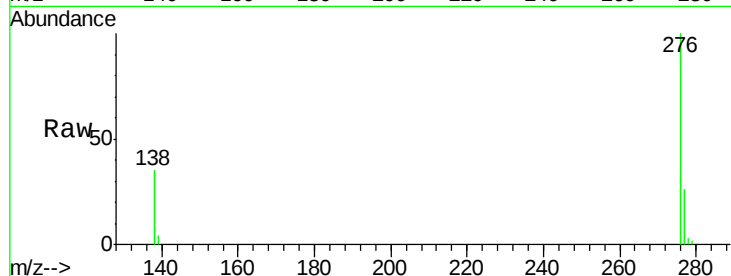
Tgt Ion: 276 Resp: 61930

Ion Ratio Lower Upper

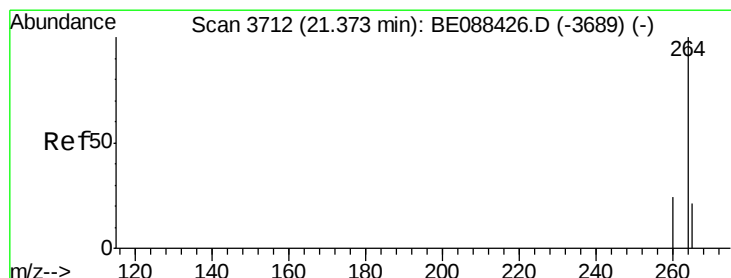
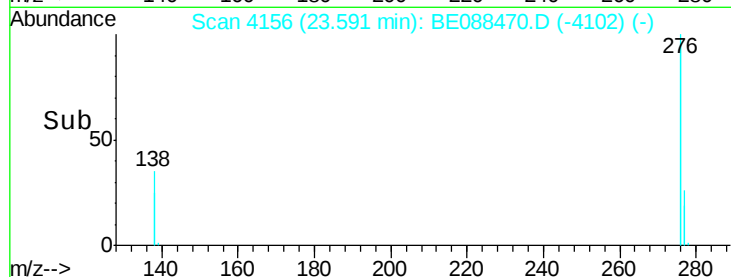
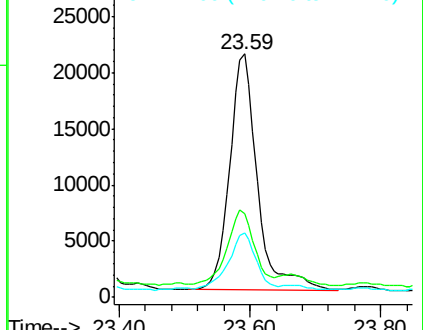
276 100

138 32.2 20.2 30.2#

277 22.8 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: 21.40 min Scan# 3717

Delta R.T. 0.03 min

Lab File: BE088470.D

Acq: 2 Nov 2014 1:59

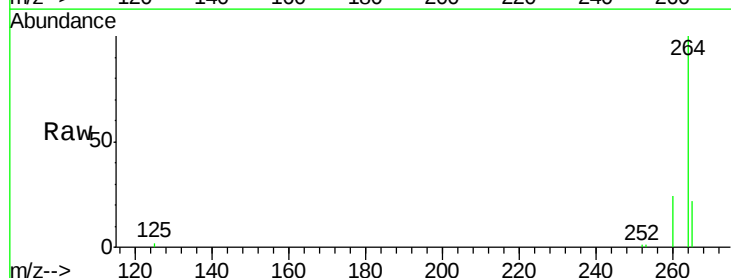
Tgt Ion: 264 Resp: 53857

Ion Ratio Lower Upper

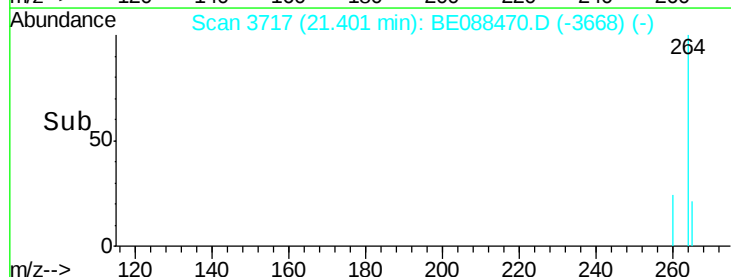
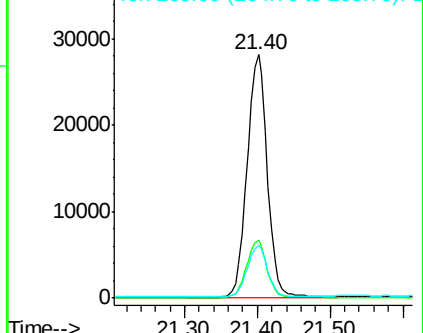
264 100

260 23.9 18.9 28.3

265 21.7 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: 2.68 ng

RT: 20.64 min Scan# 3550

Delta R.T. 0.03 min

Lab File: BE088470.D

Acq: 2 Nov 2014 1:59

Instrument :

BNA_E

ClientSampleId :

YS19-SS29-1014DL

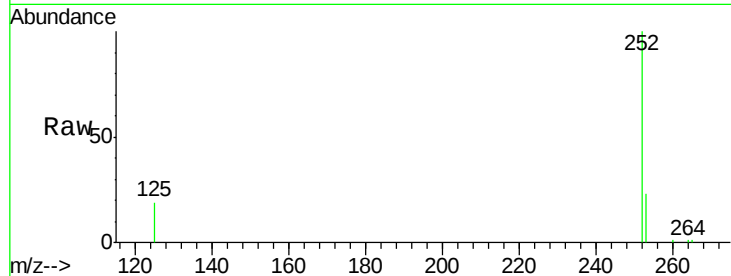
Tgt Ion:252 Resp: 31619

Ion Ratio Lower Upper

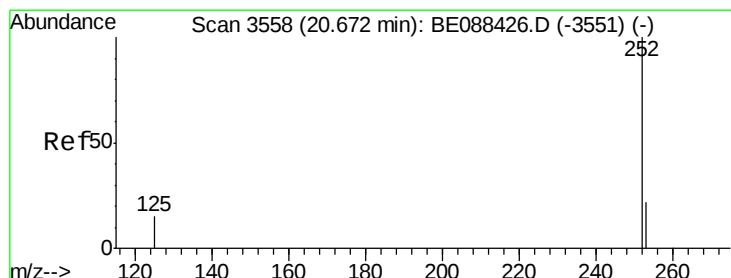
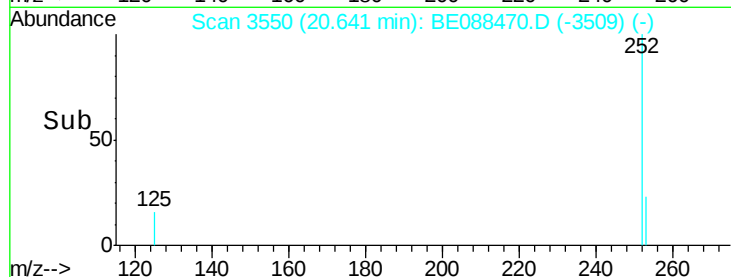
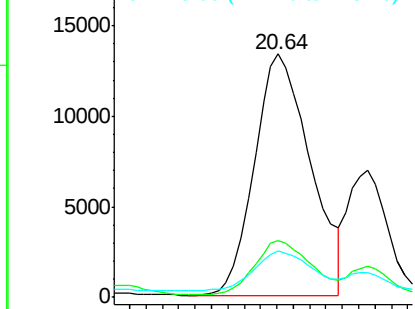
252 100

253 23.4 17.8 26.8

125 18.9 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: 0.89 ng

RT: 20.70 min Scan# 3562

Delta R.T. 0.02 min

Lab File: BE088470.D

Acq: 2 Nov 2014 1:59

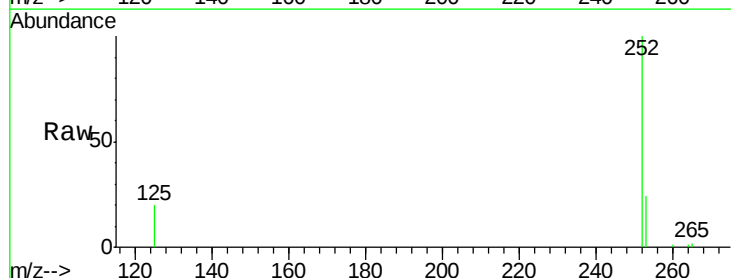
Tgt Ion:252 Resp: 11603

Ion Ratio Lower Upper

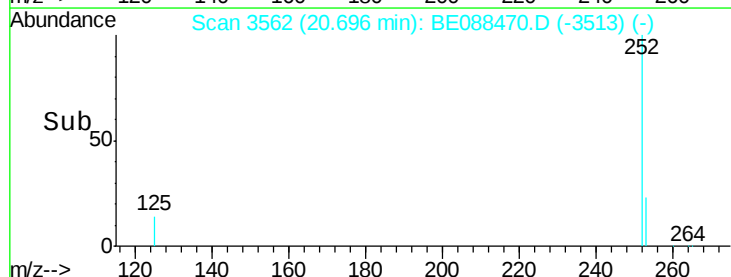
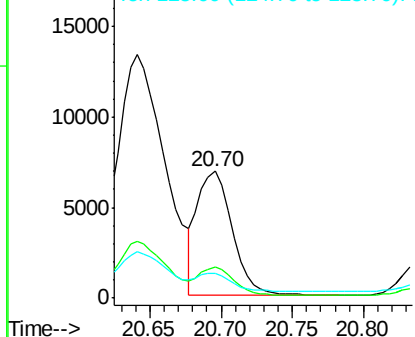
252 100

253 24.2 17.8 26.8

125 19.6 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: 1.98 ng

RT: 21.28 min Scan# 3691

Delta R.T. 0.03 min

Lab File: BE088470.D

Acq: 2 Nov 2014 1:59

Instrument :

BNA_E

ClientSampleId :

YS19-SS29-1014DL

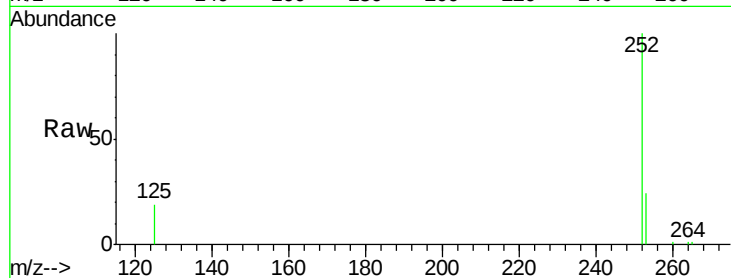
Tgt Ion: 252 Resp: 22442

Ion Ratio Lower Upper

252 100

253 24.1 18.2 27.4

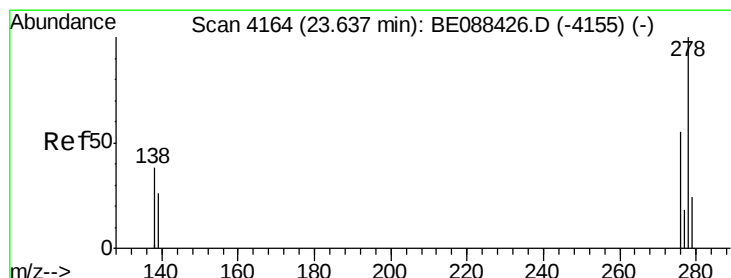
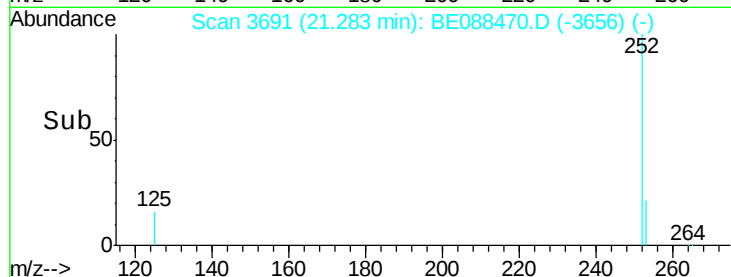
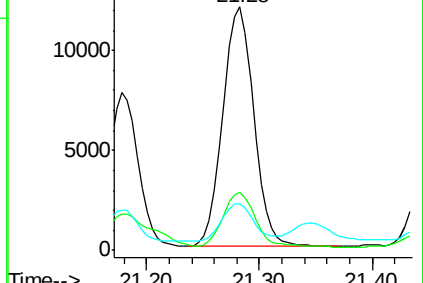
125 19.1 13.7 20.5



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: 0.30 ng

RT: 23.67 min Scan# 4168

Delta R.T. 0.03 min

Lab File: BE088470.D

Acq: 2 Nov 2014 1:59

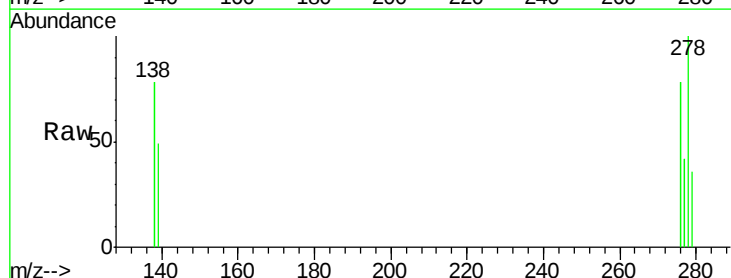
Tgt Ion: 278 Resp: 3152

Ion Ratio Lower Upper

278 100

139 49.2 22.1 33.1#

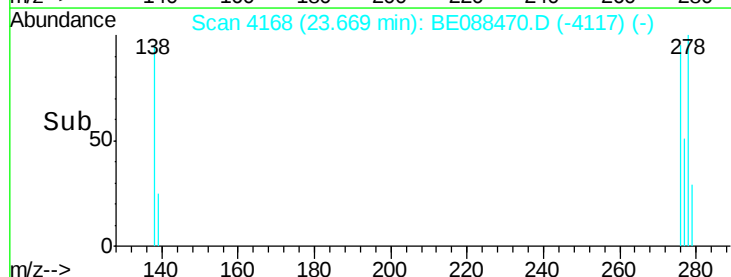
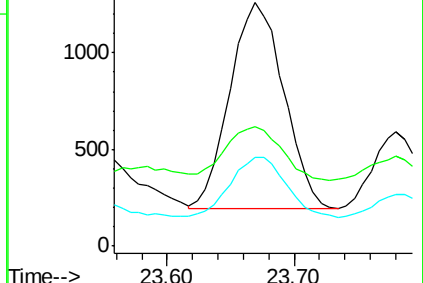
279 36.3 19.7 29.5#



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: 1.16 ng

RT: 24.22 min Scan# 4253

Delta R.T. 0.06 min

Lab File: BE088470.D

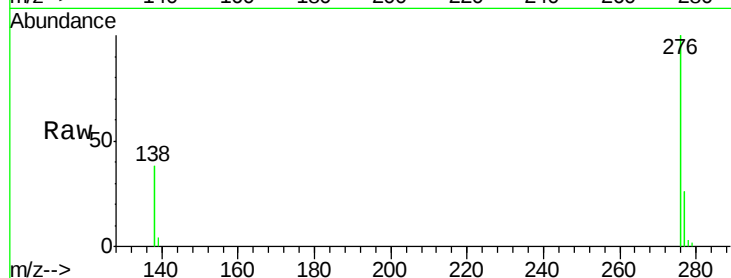
Acq: 2 Nov 2014 1:59

Instrument :

BNA_E

ClientSampleId :

YS19-SS29-1014DL



Tgt Ion: 276 Resp: 55899

Ion Ratio Lower Upper

276 100

277 26.2 19.8 29.6

138 38.4 29.3 43.9

