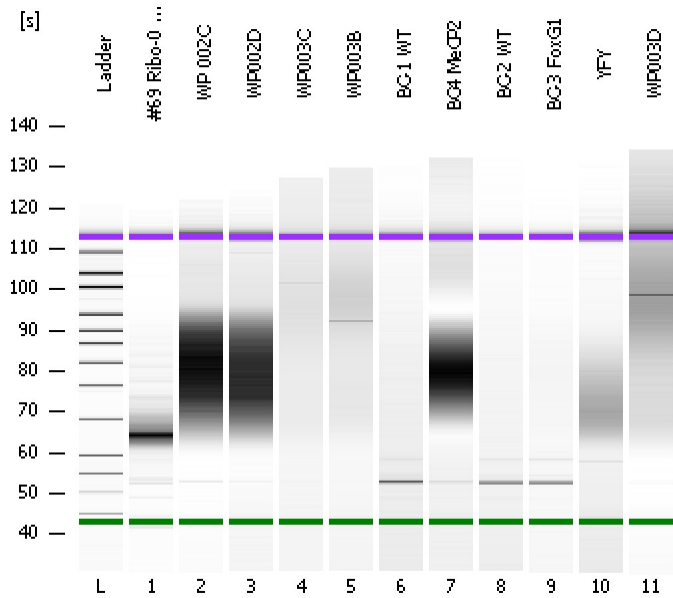


Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-06-14\2012-06-14_006.xad

Created: 6/14/2012 2:19:13 PM
Modified: 6/14/2012 3:00:36 PM

Electrophoresis File Run Summary



Instrument Information:

Instrument Name: DE13701086 Firmware: C.01.069
Serial#: DE13701086 Type: G2938B

Assay Information:

Assay Origin Path: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\assays\dsDNA\High Sensitivity DNA.xsy
Assay Class: High Sensitivity DNA Assay
Version: 1.03
Assay Comments: Copyright © 2003-2010 Agilent Technologies

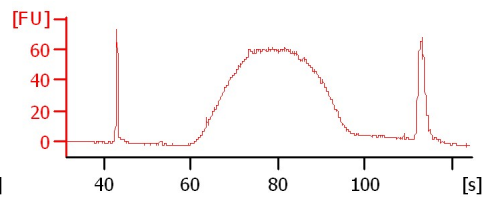
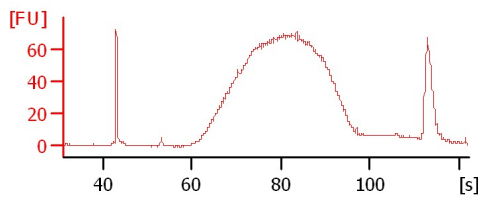
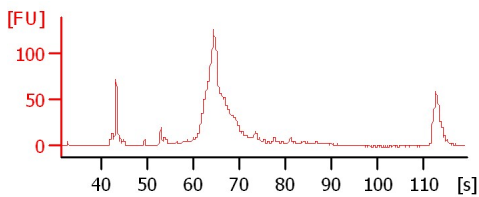
Chip Information:

Chip Lot #:
Reagent Kit Lot #:
Chip Comments:

#69 Ribo-0 Lib 6/14/12 (Kim, H.)

WP 002C

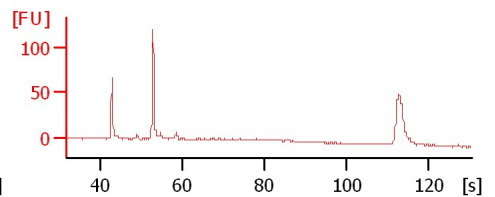
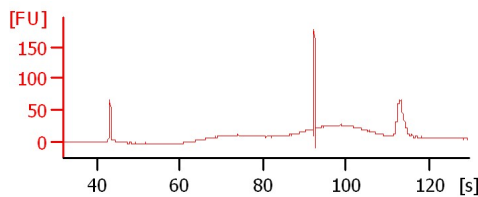
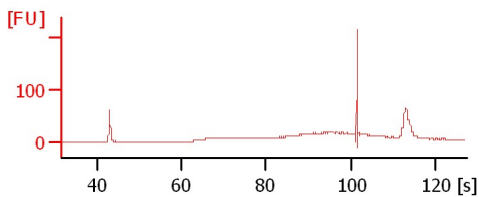
WP002D



WP003C

WP003B

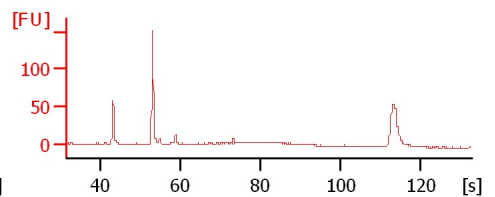
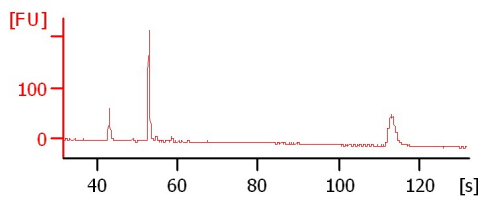
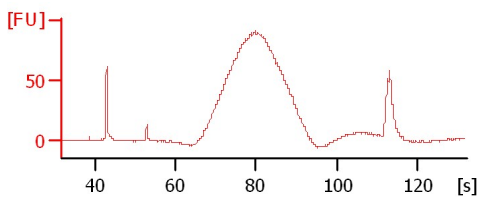
BC-1 WT



BC4 MeCP2

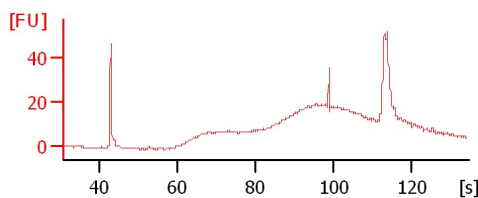
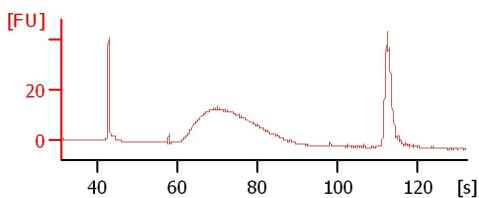
BC-2 WT

BC-3 FoxG1



YFY

WP003D



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-06-14\2012-06-14_006.xad

Created: 6/14/2012 2:19:13 PM
 Modified: 6/14/2012 3:00:36 PM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
#69 Ribo-0 Lib 6/14/12 (Kim, H.)		<input type="checkbox"/>	✓			
WP 002C		<input type="checkbox"/>	✓			
WP002D		<input type="checkbox"/>	✓			
WP003C		<input type="checkbox"/>	✓			
WP003B		<input type="checkbox"/>	✓			
BC-1 WT		<input type="checkbox"/>	✓			
BC4 MeCP2		<input type="checkbox"/>	✓			
BC-2 WT		<input type="checkbox"/>	✓			
BC-3 FoxG1		<input type="checkbox"/>	✓			
YFY		<input type="checkbox"/>	✓			
WP003D		<input type="checkbox"/>	✓			
Ladder		<input type="checkbox"/>	✓			

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-06-14\2012-06-14_006.xad

Created: 6/14/2012 2:19:13 PM
Modified: 6/14/2012 3:00:36 PM

Electrophoresis Assay Details

General Analysis Settings

Number of Available Sample and Ladder Wells (Max.) : 12
Minimum Visible Range [s] : 32
Maximum Visible Range [s] : 138
Start Analysis Time Range [s] : 33
End Analysis Time Range [s] : 137.5
Ladder Concentration [pg/ μ l] : 1950
Uses Standard Area for Ladder Fragments
Lower Marker Concentration [pg/ μ l] : 125
Upper Marker Concentration [pg/ μ l] : 75
Used Upper Marker for Quantitation
Standard Curve Fit is Point to Point
Show Data Aligned to Lower and Upper Marker

Integrator Settings

Integration Start Time [s] : 33.05
Integration End Time [s] : 137
Slope Threshold : 0.8
Height Threshold [FU] : 5
Area Threshold : 0.1
Width Threshold [s] : 0.6
Baseline Plateau [s] : 0.5

Filter Settings

Filter Width [s] : 0.5
Polynomial Order : 4

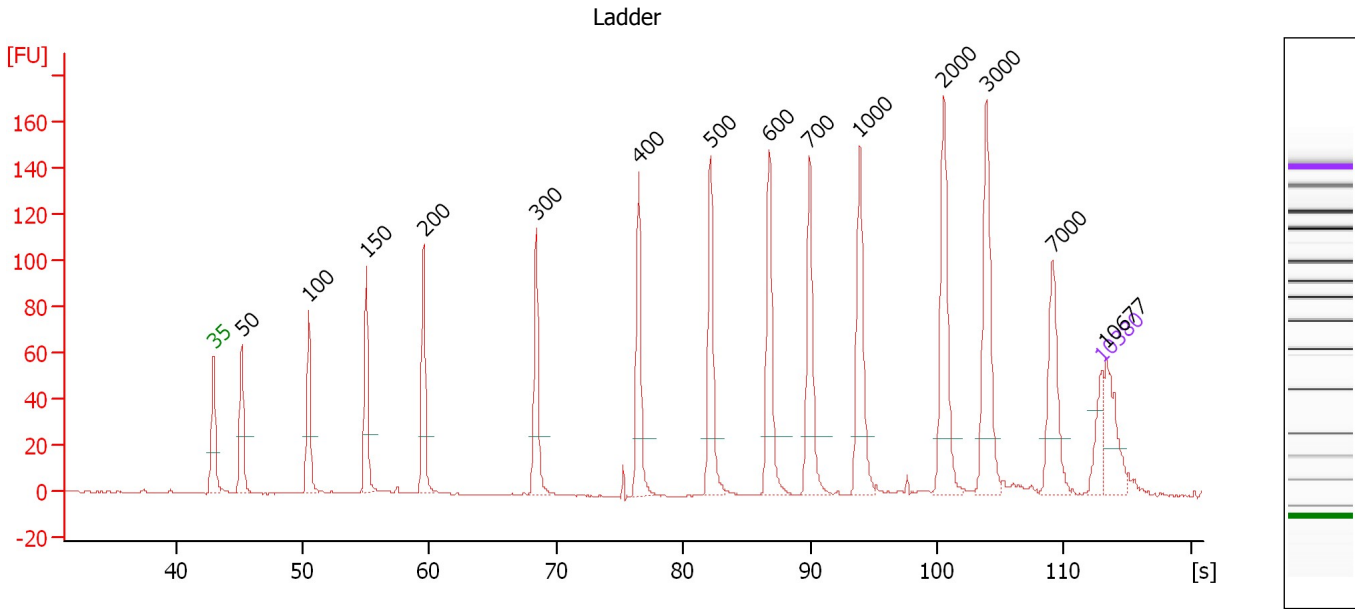
Ladder

Ladder Peak	Size	Area
1	35	160
2	50	210
3	100	208
4	150	221
5	200	242
6	300	270
7	400	305
8	500	306
9	600	336
10	700	321
11	1000	366
12	2000	413
13	3000	411
14	7000	400
15	10380	214

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-06-14\2012-06-14_006.xad

Created: 6/14/2012 2:19:13 PM
 Modified: 6/14/2012 3:00:36 PM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.2

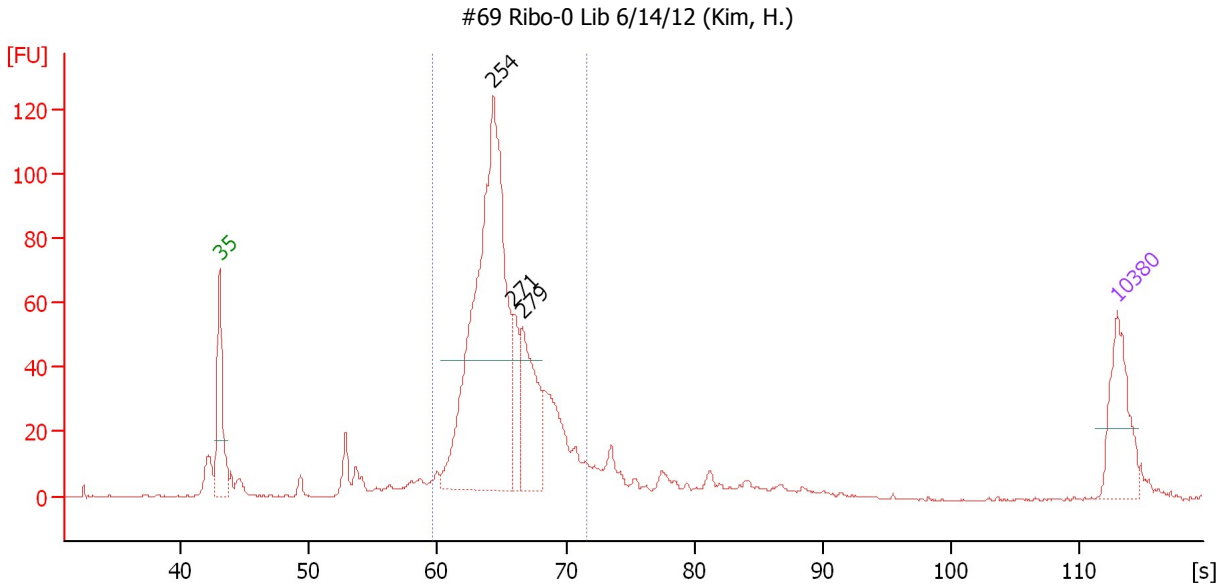
Peak table for Ladder

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	50	150.00	4,545.5	Ladder Peak
3	100	150.00	2,272.7	Ladder Peak
4	150	150.00	1,515.2	Ladder Peak
5	200	150.00	1,136.4	Ladder Peak
6	300	150.00	757.6	Ladder Peak
7	400	150.00	568.2	Ladder Peak
8	500	150.00	454.5	Ladder Peak
9	600	150.00	378.8	Ladder Peak
10	700	150.00	324.7	Ladder Peak
11	1,000	150.00	227.3	Ladder Peak
12	2,000	150.00	113.6	Ladder Peak
13	3,000	150.00	75.8	Ladder Peak
14	7,000	150.00	32.5	Ladder Peak
15	10,380	75.00	10.9	Upper Marker
16	10,677	0.00	0.0	

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-06-14\2012-06-14_006.xad

Created: 6/14/2012 2:19:13 PM
 Modified: 6/14/2012 3:00:36 PM

Electropherogram Summary Continued ...



Setpoint Deviations for sample 1 : #69 Ribo-0 Lib 6/14/12 (Kim, H.)

Height Threshold [FU] : 40

Overall Results for sample 1 : #69 Ribo-0 Lib 6/14/12 (Kim, H.)

Number of peaks found: 3 Corr. Area 1: 844.4
 Noise: 0.2

Peak table for sample 1 : #69 Ribo-0 Lib 6/14/12 (Kim, H.)

Peak	Size [bp]	Conc. [pg/µl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	254	758.56	4,524.0	
3	271	64.62	360.6	
4	279	160.73	871.3	
5	10,380	75.00	10.9	Upper Marker

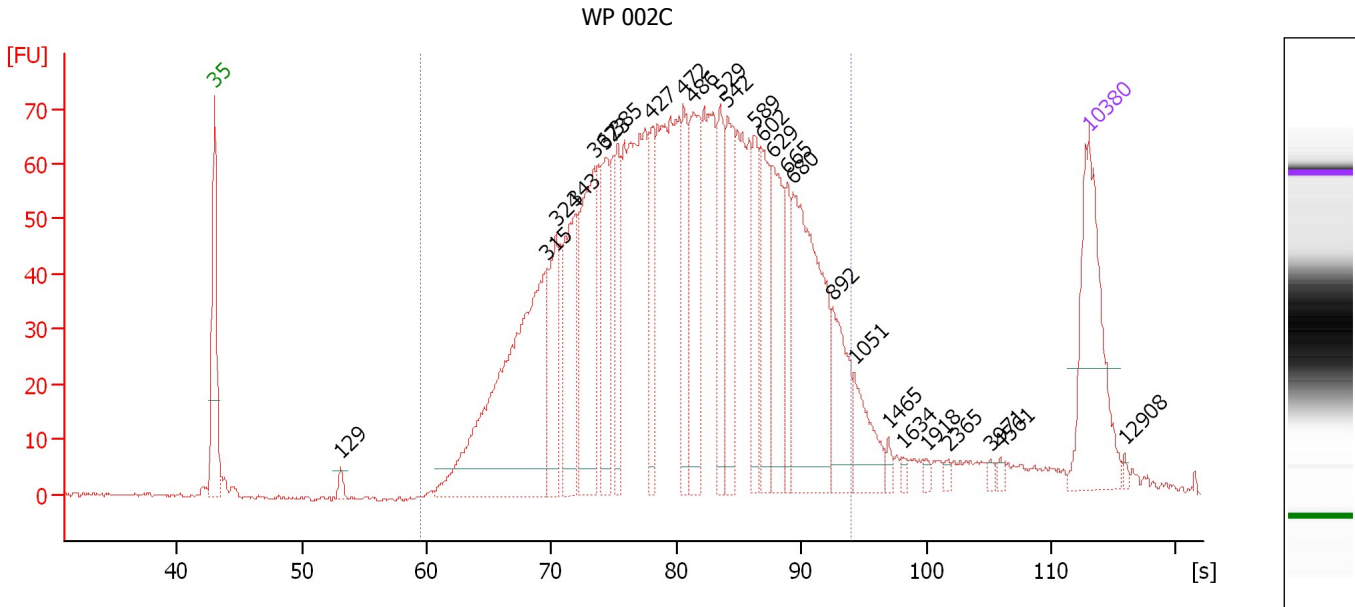
Region table for sample 1 : #69 Ribo-0 Lib 6/14/12 (Kim, H.)

From [s]	To [s]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/µl]	Corr. Area % of Total	Size distribution in CV [%]	Color
59.55	71.57	264	6,909.0	1,193.27	844.4 / 78	10.4	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-06-14\2012-06-14_006.xad

Created: 6/14/2012 2:19:13 PM
 Modified: 6/14/2012 3:00:36 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : WP 002C

Number of peaks found: 26 Corr. Area 1: 1,965.8
 Noise: 0.2

Peak table for sample 2 : WP 002C

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	129	6.73	79.2	
3	315	274.61	1,320.0	
4	324	63.59	297.6	
5	343	85.47	377.5	
6	362	112.47	470.4	
7	373	56.79	230.7	
8	385	46.09	181.3	
9	427	46.31	164.4	
10	472	60.52	194.4	
11	486	77.69	242.2	
12	529	46.65	133.6	
13	542	60.60	169.4	
14	589	36.90	94.9	
15	602	47.81	120.4	
16	629	58.09	140.0	
17	665	31.44	71.6	
18	680	146.25	325.7	
19	892	44.25	75.2	
20	1,051	29.74	42.9	
21	1,465	3.57	3.7	
22	1,634	2.83	2.6	
23	1,918	2.64	2.1	
24	2,365	2.64	1.7	
25	3,971	2.05	0.8	
26	4,561	2.25	0.7	

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-06-14\2012-06-14_006.xad

Created: 6/14/2012 2:19:13 PM
Modified: 6/14/2012 3:00:36 PM

Electropherogram Summary Continued ...**... Peak table for sample 2 : WP 002C**

Peak	Size [bp]	Conc. [pg/ μ l]	Molarity [pmol/l]	Observations
27	10,380	75.00	10.9	Upper Marker
28	12,908	0.00	0.0	

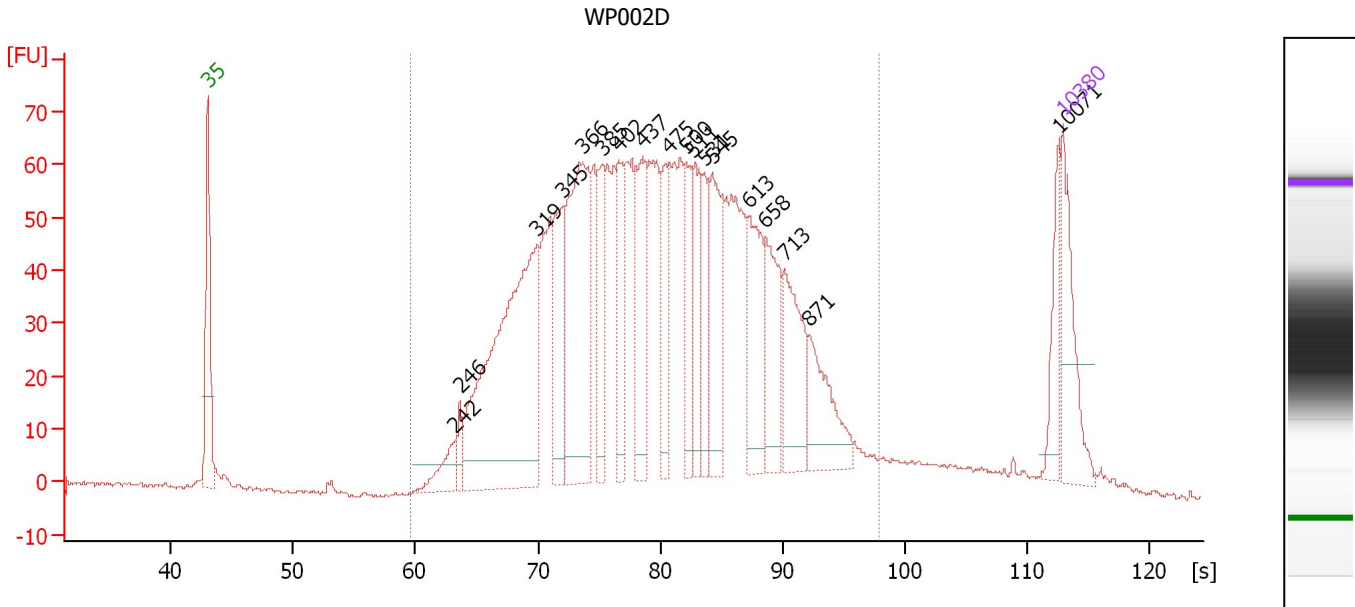
Region table for sample 2 : WP 002C

From [s]	To [s]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/ μ l]	Corr. Area % of Total	Size distribution in CV [%]	Color	
59.55	93.91	489	6,551.2	1,843.23	1,965.8	96	31.9	

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-06-14\2012-06-14_006.xad

Created: 6/14/2012 2:19:13 PM
 Modified: 6/14/2012 3:00:36 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : WP002D

Number of peaks found: 18 Corr. Area 1: 1,993.8
 Noise: 0.5

Peak table for sample 3 : WP002D

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	242	43.03	269.7	
3	246	22.54	138.7	
4	319	470.06	2,231.1	
5	345	121.66	533.6	
6	366	269.68	1,117.4	
7	385	77.94	306.9	
8	402	86.44	325.4	
9	437	110.18	381.7	
10	475	80.46	256.9	
11	500	73.65	223.1	
12	511	85.54	253.4	
13	531	58.54	166.9	
14	545	119.08	330.8	
15	613	106.64	263.7	
16	658	97.78	225.0	
17	713	109.03	231.6	
18	871	82.16	143.0	
19	10,071	43.50	6.5	
20	10,380	75.00	10.9	Upper Marker

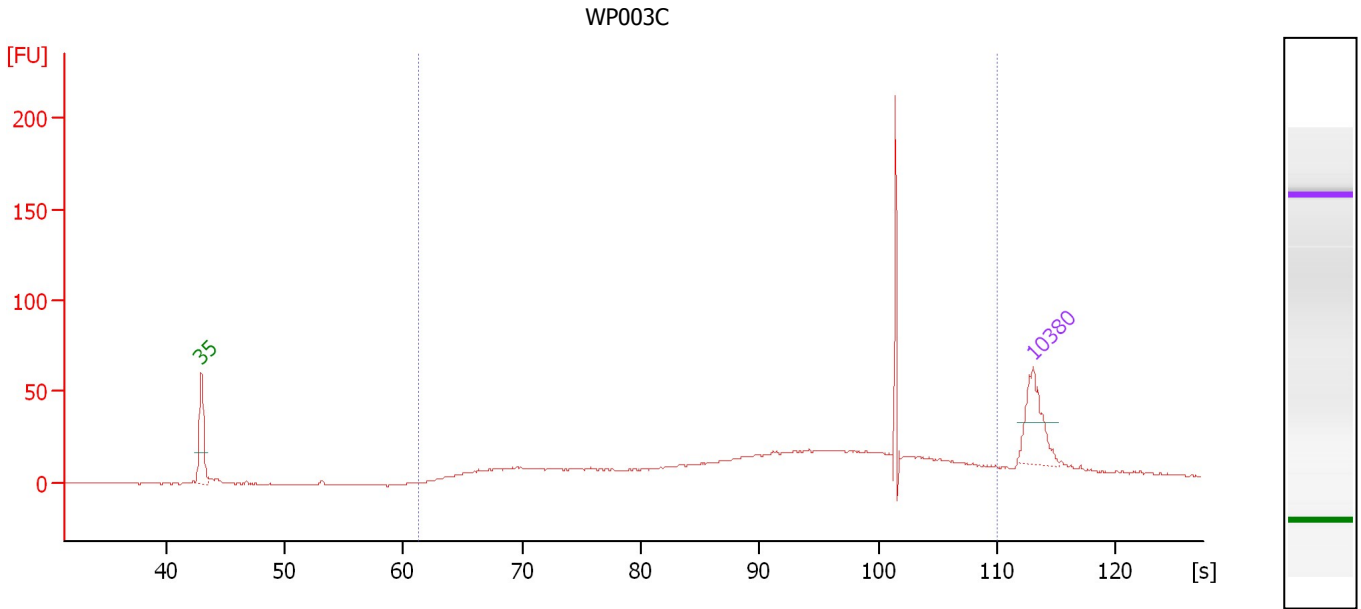
Region table for sample 3 : WP002D

From [s]	To [s]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area % of Total	Size distribution in CV [%]	Color
59.55	97.92	497	10,971.2	3,025.12	1,993.8	94	40.6

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-06-14\2012-06-14_006.xad

Created: 6/14/2012 2:19:13 PM
 Modified: 6/14/2012 3:00:36 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : WP003C

Number of peaks found: 0 Corr. Area 1: 509.5
 Noise: 0.4

Peak table for sample 4 : WP003C

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	10,380	75.00	10.9	Upper Marker

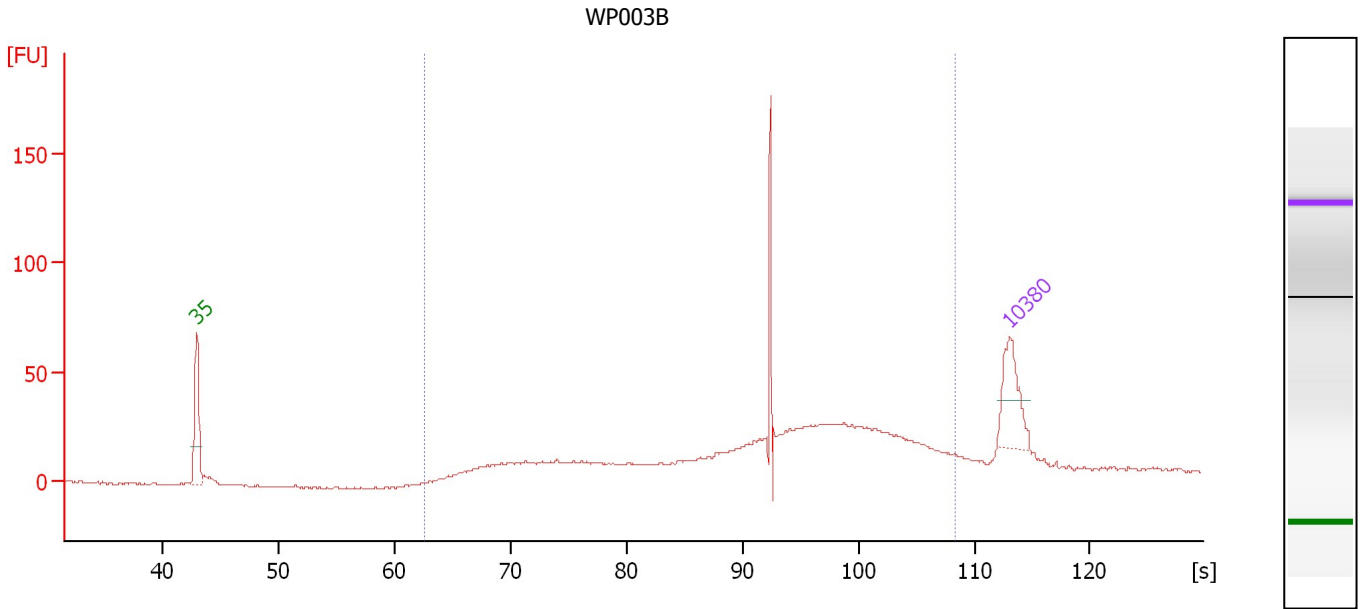
Region table for sample 4 : WP003C

From [s]	To [s]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
61.35	109.99	1,535	1,544.8	639.25	509.5	93	95.9	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-06-14\2012-06-14_006.xad

Created: 6/14/2012 2:19:13 PM
 Modified: 6/14/2012 3:00:36 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : WP003B

Number of peaks found: 0 Corr. Area 1: 582.2
 Noise: 0.4

Peak table for sample 5 : WP003B

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	10,380	75.00	10.9	Upper Marker

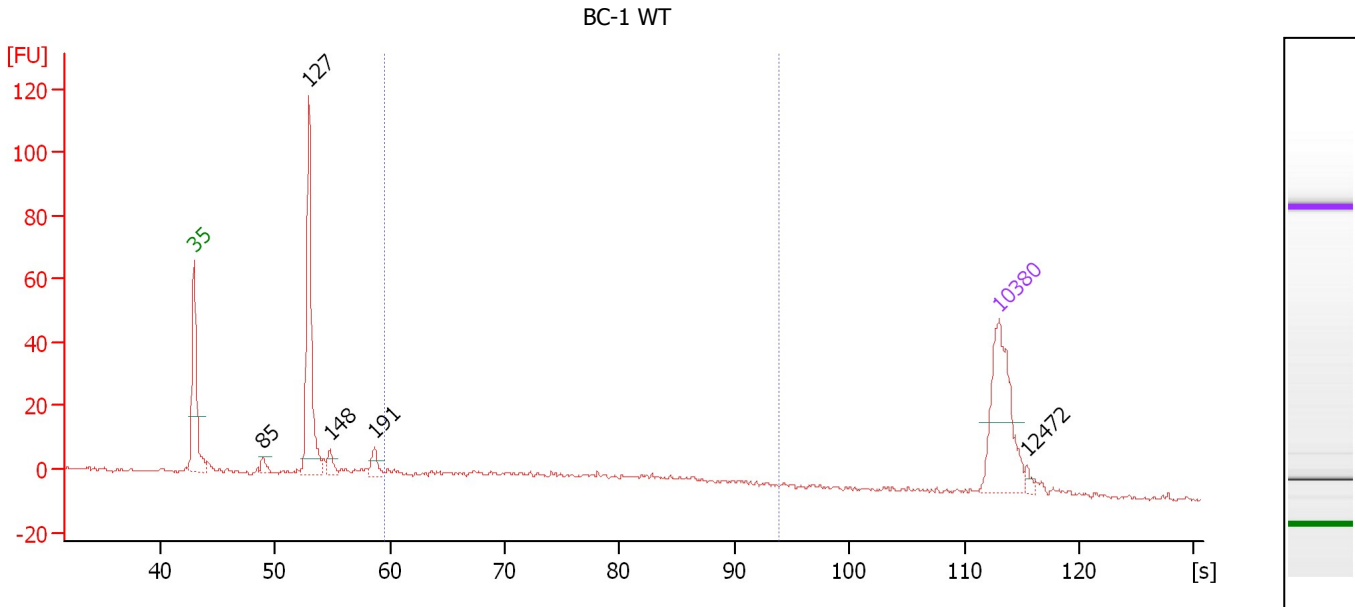
Region table for sample 5 : WP003B

From [s]	To [s]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
62.68	108.27	1,490	1,581.9	728.58	582.2	92	83.8	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-06-14\2012-06-14_006.xad

Created: 6/14/2012 2:19:13 PM
 Modified: 6/14/2012 3:00:36 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : BC-1 WT

Number of peaks found: 5 Corr. Area 1: 97.2
 Noise: 0.6

Peak table for sample 6 : BC-1 WT

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	85	9.50	168.8	
3	127	180.73	2,153.0	
4	148	13.16	134.9	
5	191	14.58	115.9	
6	10,380	75.00	10.9	Upper Marker
7	12,472	0.00	0.0	

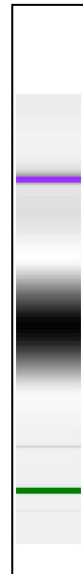
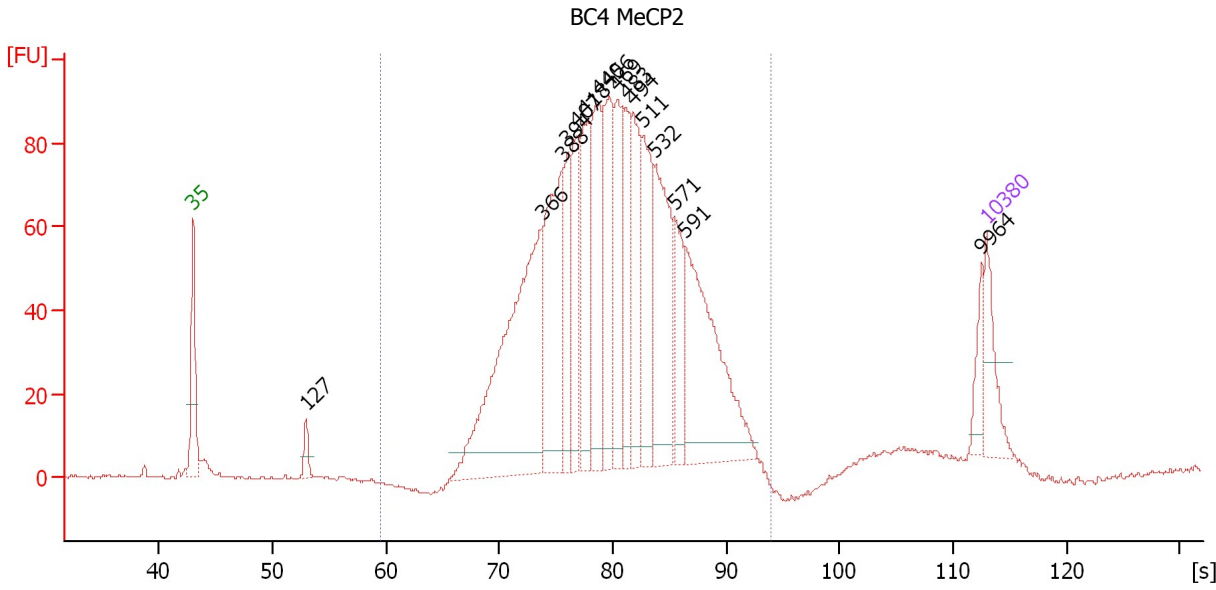
Region table for sample 6 : BC-1 WT

From [s]	To [s]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area % of Total	Size distribution in CV [%]	Color	
59.55	93.91	441	470.8	111.75	97.2	32	38.6	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-06-14\2012-06-14_006.xad

Created: 6/14/2012 2:19:13 PM
 Modified: 6/14/2012 3:00:36 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : BC4 MeCP2

Number of peaks found: 16 Corr. Area 1: 1,742.4
 Noise: 0.3

Peak table for sample 7 : BC4 MeCP2

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	127	34.22	407.9	
3	366	688.85	2,852.1	
4	388	346.29	1,351.2	
5	394	142.21	546.6	
6	407	167.66	624.4	
7	418	206.72	749.9	
8	440	234.08	805.6	
9	456	236.09	784.3	
10	469	187.75	605.9	
11	483	139.42	437.5	
12	494	194.90	598.2	
13	511	213.30	632.9	
14	532	288.21	820.9	
15	571	118.29	314.1	
16	591	388.10	995.0	
17	9,964	39.03	5.9	
18	10,380	75.00	10.9	Upper Marker

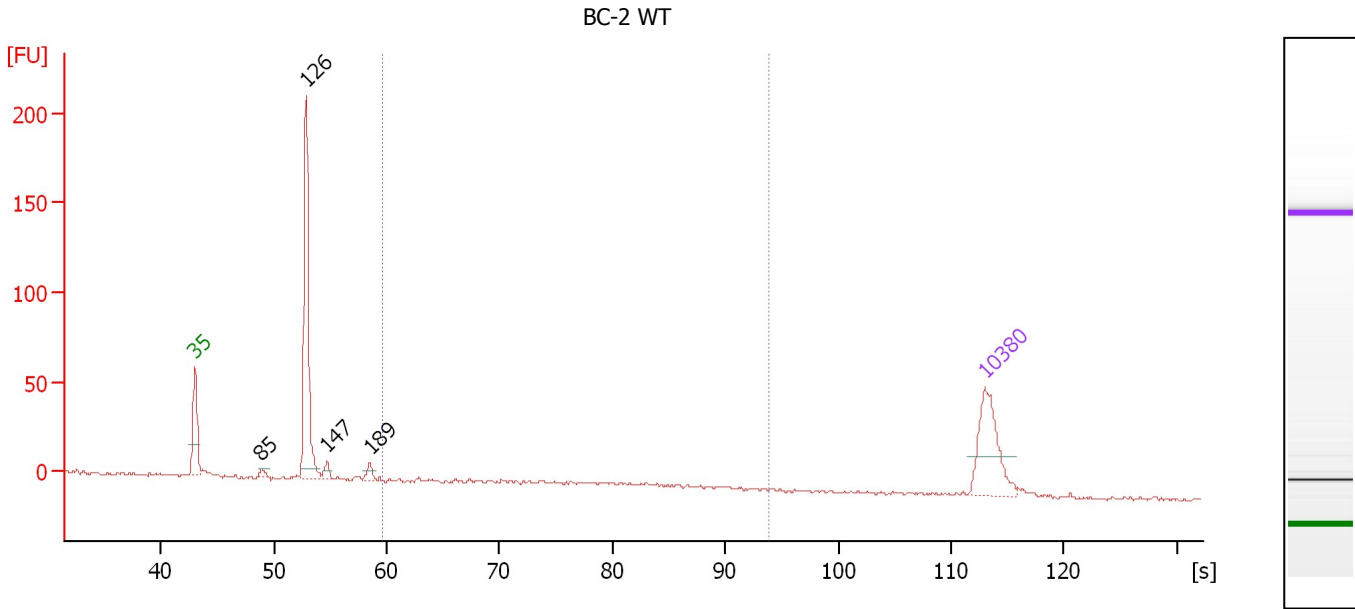
Region table for sample 7 : BC4 MeCP2

From [s]	To [s]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area % of Total	Size distribution in CV [%]	Color
59.55	93.91	472	12,646.2	3,682.63	1,742.4 95	22.8	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-06-14\2012-06-14_006.xad

Created: 6/14/2012 2:19:13 PM
 Modified: 6/14/2012 3:00:36 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : BC-2 WT

Number of peaks found: 4 Corr. Area 1: 16.5
 Noise: 0.7

Peak table for sample 8 : BC-2 WT

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	85	7.85	139.9	
3	126	272.37	3,273.9	
4	147	11.77	121.2	
5	189	11.93	95.8	
6	10,380	75.00	10.9	Upper Marker

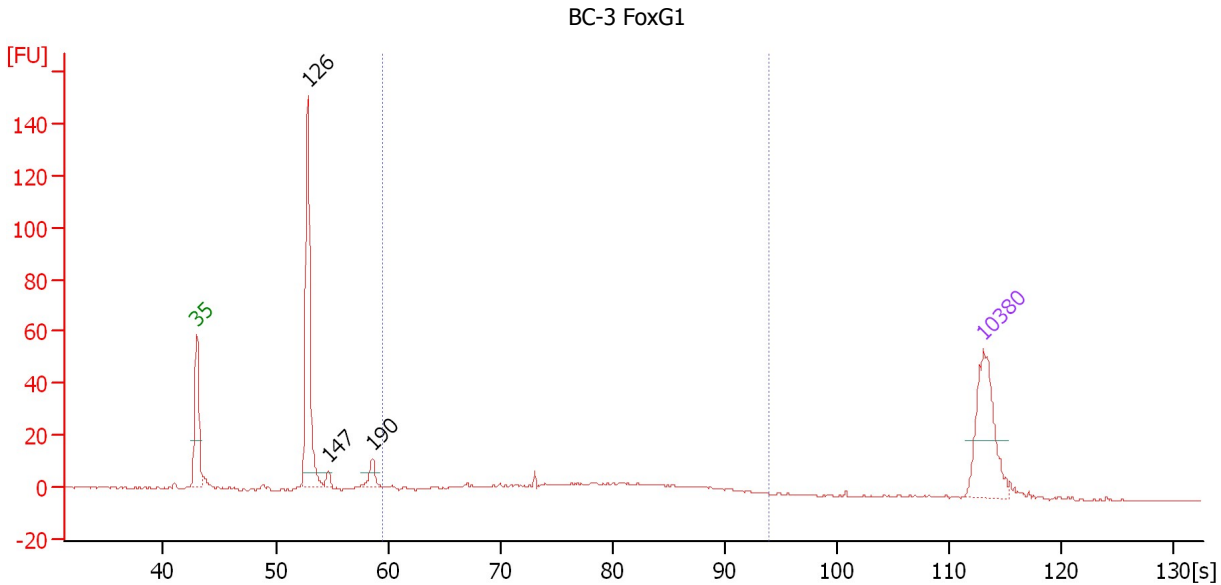
Region table for sample 8 : BC-2 WT

From [s]	To [s]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area % of Total	Size distribution in CV [%]	Color	
59.55	93.91	448	63.3	16.81	16.5	7	26.0	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-06-14\2012-06-14_006.xad

Created: 6/14/2012 2:19:13 PM
 Modified: 6/14/2012 3:00:36 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : BC-3 FoxG1

Number of peaks found: 3 Corr. Area 1: 124.7
 Noise: 0.2

Peak table for sample 9 : BC-3 FoxG1

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	126	215.30	2,588.1	
3	147	7.16	74.0	
4	190	15.18	121.1	
5	10,380	75.00	10.9	Upper Marker

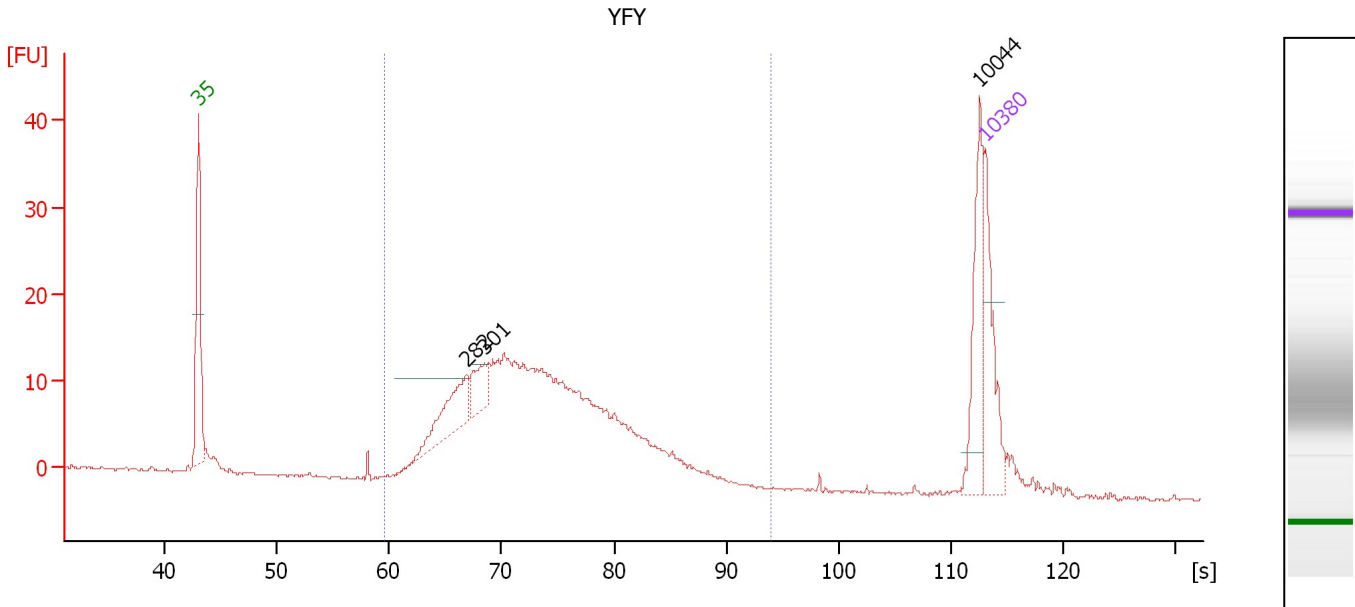
Region table for sample 9 : BC-3 FoxG1

From [s]	To [s]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
59.55	93.91	454	581.9	146.90	124.7	37	34.7	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-06-14\2012-06-14_006.xad

Created: 6/14/2012 2:19:13 PM
 Modified: 6/14/2012 3:00:36 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : YFY

Number of peaks found: 3 Corr. Area 1: 314.8
 Noise: 0.1

Peak table for sample 10 : YFY

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	282	88.13	472.8	
3	301	45.29	228.1	
4	10,044	83.38	12.6	
5	10,380	75.00	10.9	Upper Marker

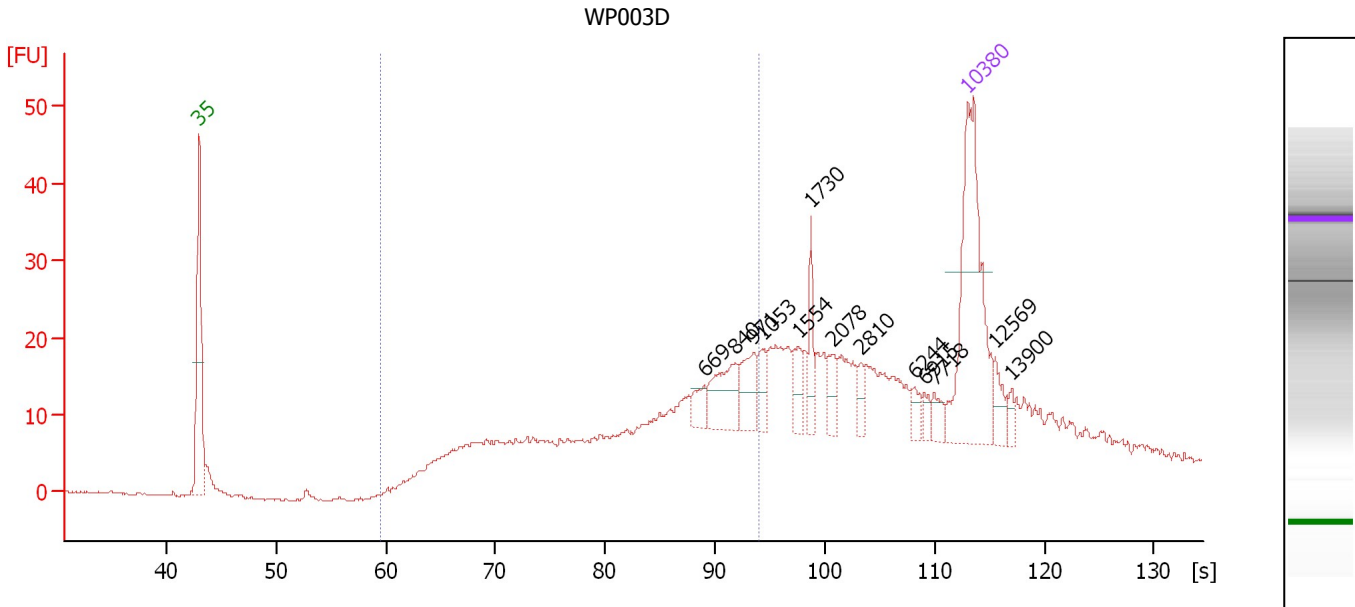
Region table for sample 10 : YFY

From [s]	To [s]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area % of Total	Size distribution in CV [%]	Color
59.55	93.91	373	4,741.3	1,073.43	314.8 85	25.8	Blue

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-06-14\2012-06-14_006.xad

Created: 6/14/2012 2:19:13 PM
 Modified: 6/14/2012 3:00:36 PM

Electropherogram Summary Continued ...



Overall Results for sample 11 : WP003D

Number of peaks found: 13 Corr. Area 1: 257.7
 Noise: 0.1

Peak table for sample 11 : WP003D

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations
1	35	125.00	5,411.3	Lower Marker
2	669	8.85	20.1	
3	840	25.33	45.7	
4	971	17.19	26.8	
5	1,053	10.06	14.5	
6	1,554	9.64	9.4	
7	1,730	11.84	10.4	
8	2,078	7.96	5.8	
9	2,810	5.41	2.9	
10	6,244	5.59	1.4	
11	6,915	4.00	0.9	
12	7,718	5.58	1.1	
13	10,380	75.00	10.9	Upper Marker
14	12,569	0.00	0.0	
15	13,900	0.00	0.0	

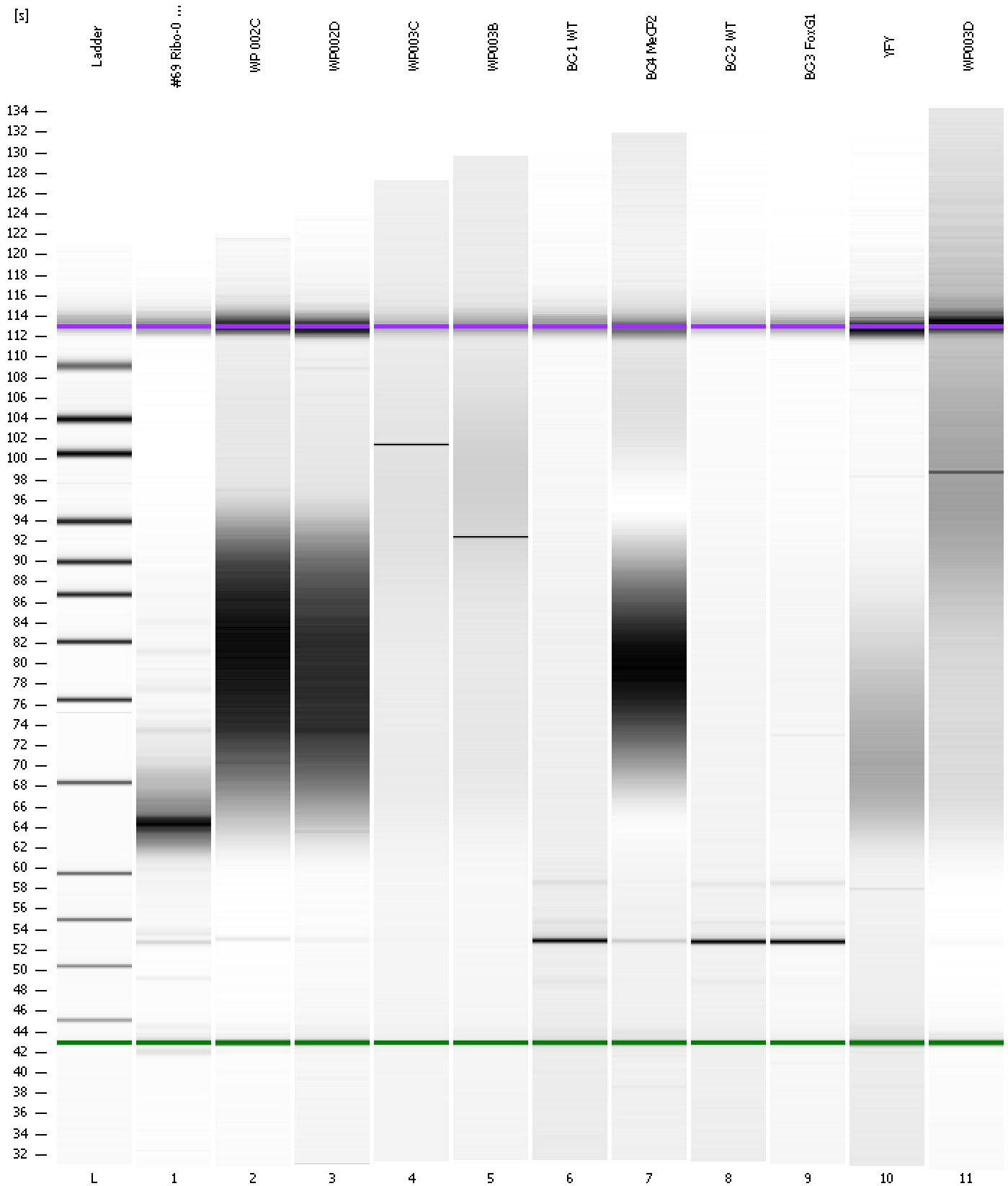
Region table for sample 11 : WP003D

From [s]	To [s]	Average Size [bp]	Molarity [pmol/l]	Conc. [pg/μl]	Corr. Area	% of Total	Size distribution in CV [%]	Color
59.55	93.91	570	1,063.8	321.46	257.7	46	36.8	Blue

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-06-14\2012-06-14_006.xad

Created: 6/14/2012 2:19:13 PM
Modified: 6/14/2012 3:00:36 PM

Gel Image



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2012-06-14\2012-06-14_006.xad

Created: 6/14/2012 2:19:13 PM
 Modified: 6/14/2012 3:00:36 PM

Run Logbook

Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host
Run ended on port 1 (Number of wells acquired: 12)		Instrument	Run		6/14/2012 3:00:31 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2012-06-14\2012-06-14_006.xad)		Instrument	Run		6/14/2012 2:19:18 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		6/14/2012 2:19:18 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		6/14/2012 2:19:18 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		6/14/2012 2:19:18 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		6/14/2012 2:19:18 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		6/14/2012 2:19:18 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		6/14/2012 2:19:18 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1