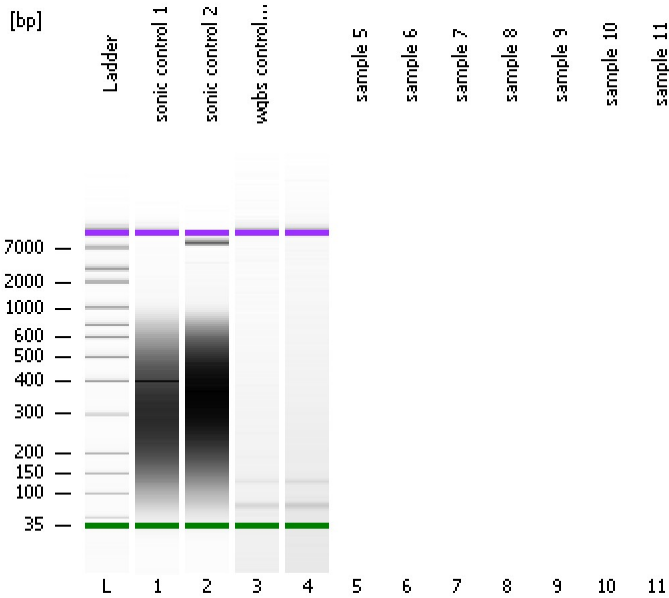


Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-07-12\2013-07-12\_003.xad

Created: 7/12/2013 3:23:45 PM  
Modified: 7/12/2013 3:45:05 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

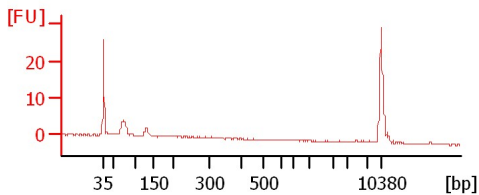
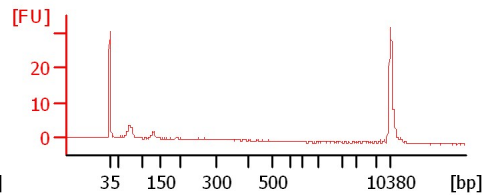
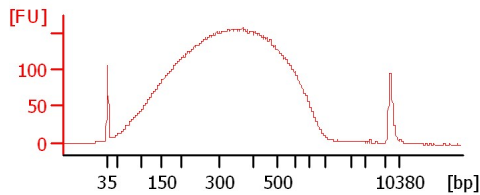
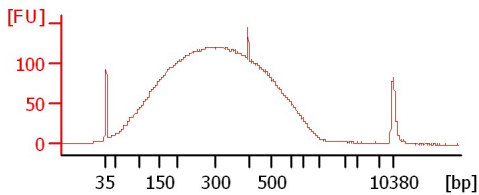
Chip Information:

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

sonic control 1

sonic control 2

wgbs control 15c



Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-07-12\2013-07-12\_003.xad

Created: 7/12/2013 3:23:45 PM  
Modified: 7/12/2013 3:45:05 PM

**Electrophoresis File Run Summary (Chip Summary)**

| Sample Name      | Sample Comment | Rest. Digest             | Status | Observation | Result Label | Result Color |
|------------------|----------------|--------------------------|--------|-------------|--------------|--------------|
| sonic control 1  |                | <input type="checkbox"/> | ✓      |             |              |              |
| sonic control 2  |                | <input type="checkbox"/> | ✓      |             |              |              |
| wgbs control 15c |                | <input type="checkbox"/> | ✓      |             |              |              |
|                  |                | <input type="checkbox"/> | ✓      |             |              |              |
| sample 5         |                | <input type="checkbox"/> |        |             |              |              |
| sample 6         |                | <input type="checkbox"/> |        |             |              |              |
| sample 7         |                | <input type="checkbox"/> |        |             |              |              |
| sample 8         |                | <input type="checkbox"/> |        |             |              |              |
| sample 9         |                | <input type="checkbox"/> |        |             |              |              |
| sample 10        |                | <input type="checkbox"/> |        |             |              |              |
| sample 11        |                | <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\2013-07-12\2013-07-12\_003.xad

Created: 7/12/2013 3:23:45 PM  
Modified: 7/12/2013 3:45:05 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/μl] : 1950  
Uses Standard Area for Ladder Fragments  
Lower Marker Concentration [pg/μl] : 125  
Upper Marker Concentration [pg/μl] : 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

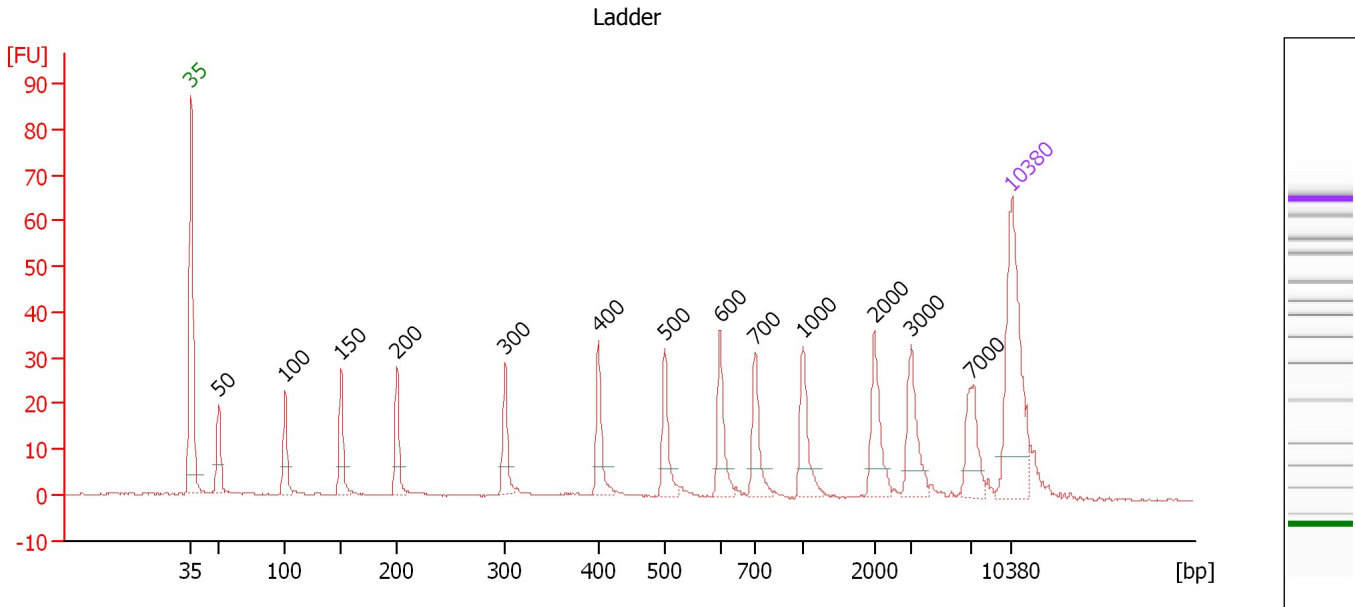
**Ladder**

| 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\2013-07-12\2013-07-12\_003.xad

Created: 7/12/2013 3:23:45 PM  
 Modified: 7/12/2013 3:45:05 PM

**Electropherogram Summary**



**Overall Results for Ladder**

Noise: 0.1

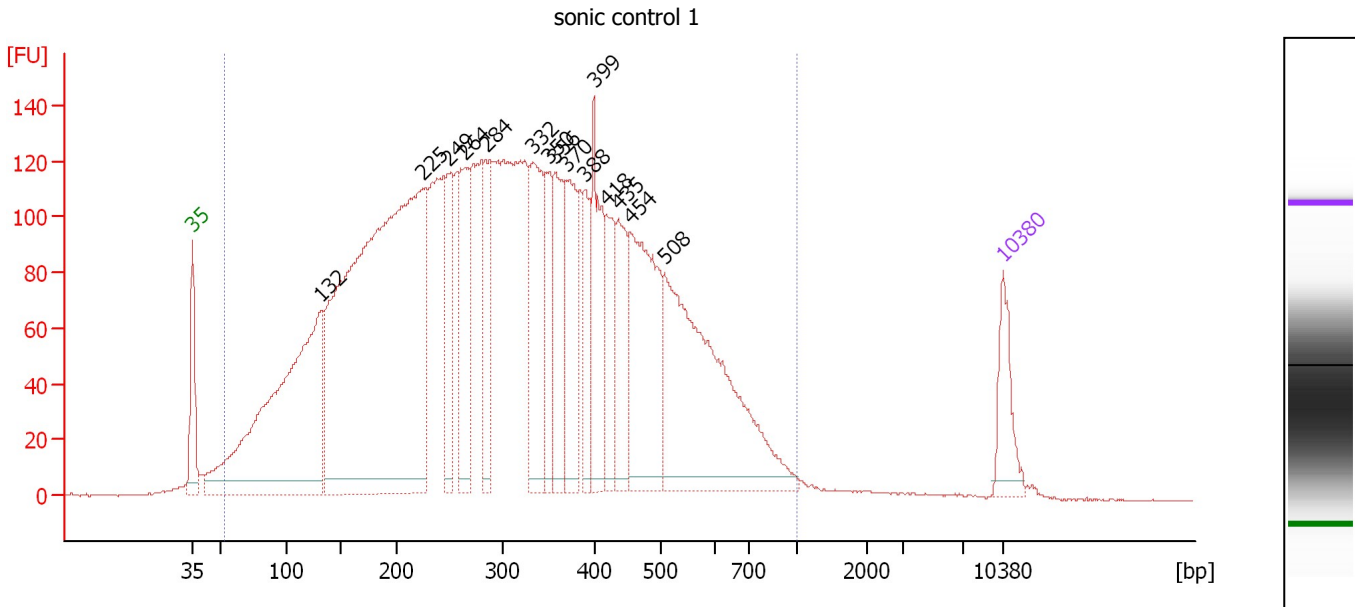
**Peak table for Ladder**

| 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 |

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-07-12\2013-07-12\_003.xad

Created: 7/12/2013 3:23:45 PM  
 Modified: 7/12/2013 3:45:05 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 1 : sonic control 1**

Number of peaks found: 15      Corr. Area 1: 5,889.1  
 Noise: 0.3

**Peak table for sample 1 : sonic control 1**

| Peak | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations |
|------|-----------|---------------|-------------------|--------------|
| 1    | 35        | 125.00        | 5,411.3           | Lower Marker |
| 2    | 132       | 1,066.86      | 12,254.7          |              |
| 3    | 225       | 1,956.33      | 13,184.4          |              |
| 4    | 249       | 189.85        | 1,156.3           |              |
| 5    | 264       | 255.55        | 1,468.2           |              |
| 6    | 284       | 158.02        | 842.5             |              |
| 7    | 332       | 276.01        | 1,259.7           |              |
| 8    | 350       | 120.65        | 522.4             |              |
| 9    | 356       | 207.46        | 882.3             |              |
| 10   | 370       | 196.48        | 804.2             |              |
| 11   | 388       | 118.99        | 464.6             |              |
| 12   | 399       | 219.92        | 836.2             |              |
| 13   | 418       | 126.43        | 457.9             |              |
| 14   | 435       | 154.39        | 537.2             |              |
| 15   | 454       | 387.33        | 1,291.9           |              |
| 16   | 508       | 651.16        | 1,943.1           |              |
| 17   | 10,380    | 75.00         | 10.9              | Upper Marker |

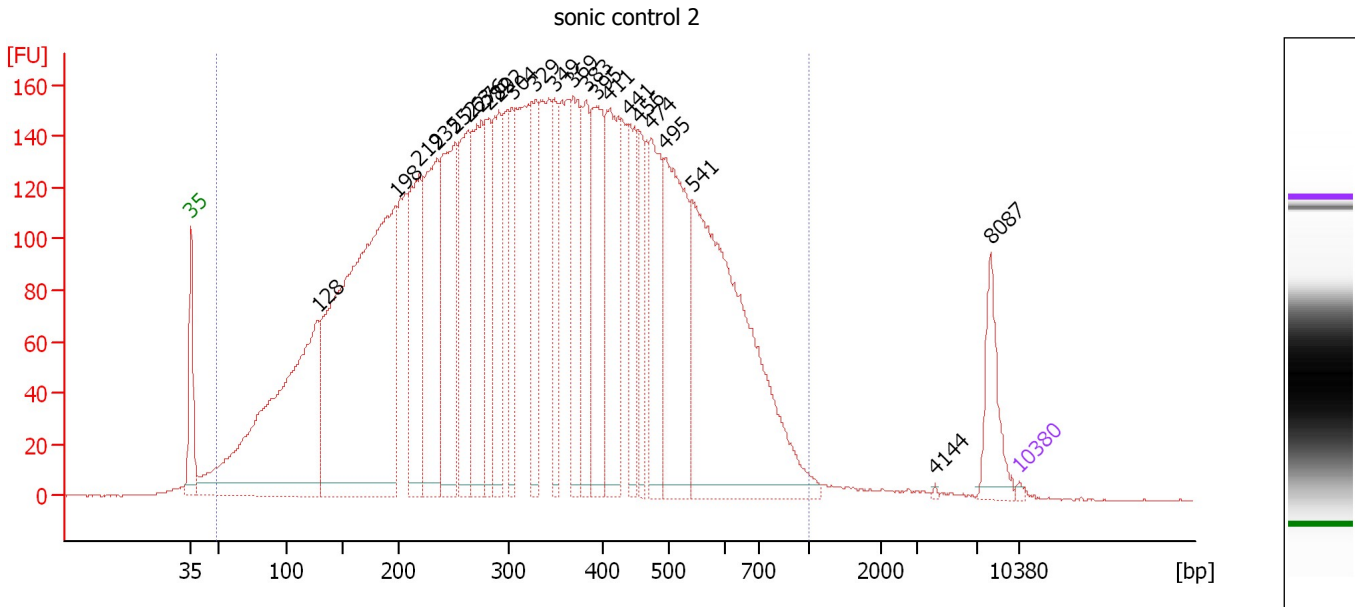
**Region table for sample 1 : sonic control 1**

| From [bp] | To [bp] | Average Size [bp] | Molarity [pmol/l] | Conc. [pg/μl] | Corr. Area | % of Total | Size distribution in CV [%] | Color |
|-----------|---------|-------------------|-------------------|---------------|------------|------------|-----------------------------|-------|
| 53        | 1,000   | 324               | 56,958.5          | 8,119.22      | 5,889.1    | 98         | 47.3                        | Blue  |

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-07-12\2013-07-12\_003.xad

Created: 7/12/2013 3:23:45 PM  
 Modified: 7/12/2013 3:45:05 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : sonic control 2**

Number of peaks found: 23                      Corr. Area 1: 7,648.1  
 Noise: 0.2

**Peak table for sample 2 : sonic control 2**


| Peak | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations |
|------|-----------|---------------|-------------------|--------------|
| 1    | 35        | 125.00        | 5,411.3           | Lower Marker |
| 2    | 128       | 25,666.16     | 303,570.5         |              |
| 3    | 198       | 36,214.95     | 277,805.8         |              |
| 4    | 219       | 8,567.03      | 59,291.6          |              |
| 5    | 235       | 9,898.66      | 63,809.3          |              |
| 6    | 252       | 10,276.41     | 61,872.3          |              |
| 7    | 263       | 7,169.51      | 41,244.8          |              |
| 8    | 276       | 7,770.19      | 42,719.6          |              |
| 9    | 282       | 4,872.42      | 26,184.7          |              |
| 10   | 292       | 6,085.80      | 31,610.0          |              |
| 11   | 304       | 4,110.42      | 20,487.8          |              |
| 12   | 329       | 4,255.20      | 19,601.8          |              |
| 13   | 349       | 4,062.31      | 17,649.0          |              |
| 14   | 369       | 5,814.68      | 23,866.3          |              |
| 15   | 383       | 4,246.61      | 16,810.9          |              |
| 16   | 395       | 7,170.63      | 27,530.1          |              |
| 17   | 411       | 7,177.11      | 26,469.1          |              |
| 18   | 441       | 4,204.60      | 14,438.5          |              |
| 19   | 456       | 2,940.21      | 9,777.7           |              |
| 20   | 474       | 6,013.12      | 19,220.7          |              |
| 21   | 495       | 9,696.79      | 29,692.9          |              |
| 22   | 541       | 21,077.70     | 58,979.3          |              |
| 23   | 4,144     | 48.02         | 17.6              |              |
| 24   | 8,087     | 2,206.21      | 413.4             |              |
| 25   | 10,380    | 75.00         | 10.9              | Upper Marker |

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-07-12\2013-07-12\_003.xad

Created: 7/12/2013 3:23:45 PM  
Modified: 7/12/2013 3:45:05 PM

**Electropherogram Summary Continued ...**

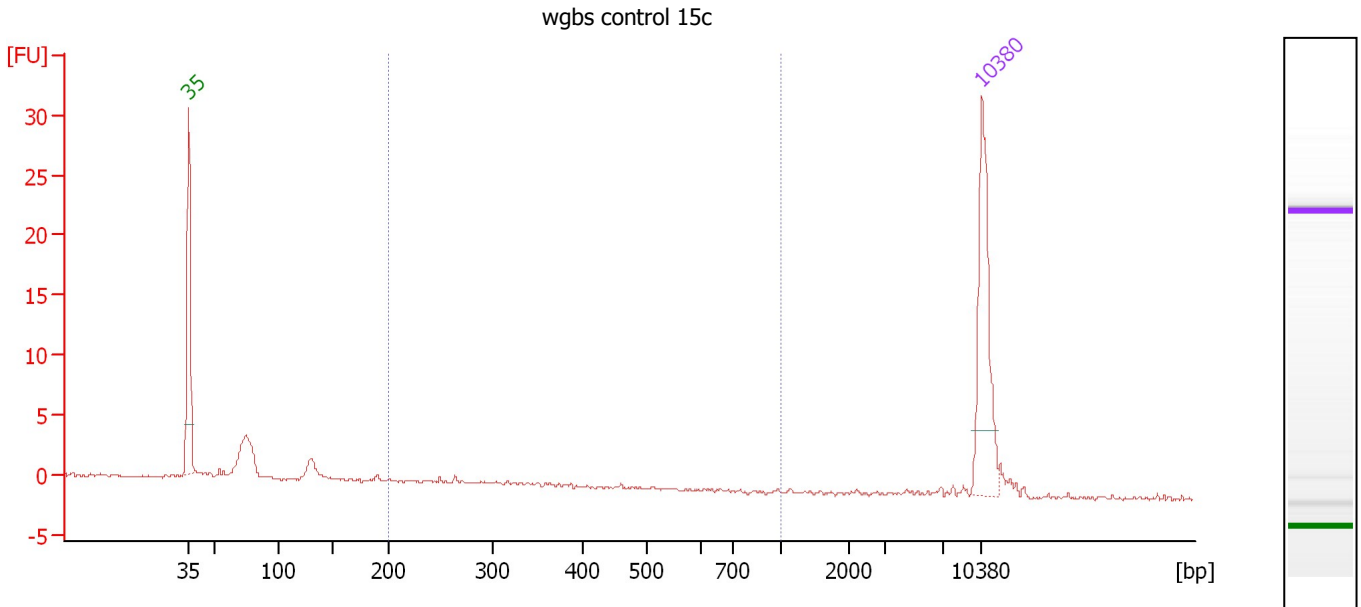
... Region table for sample 2 : sonic control 2

| From [bp] | To [bp] | Average Size [bp] | Molarity [pmol/l] | Conc. [pg/μl] | Corr. Area | % of Total | Size distribution in CV [%] | Color                                                                               |
|-----------|---------|-------------------|-------------------|---------------|------------|------------|-----------------------------|-------------------------------------------------------------------------------------|
| 49        | 1,000   | 348               | 1,605,424.4       | 242,003.52    | 7,648.1    | 97         | 46.1                        |  |

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-07-12\2013-07-12\_003.xad

Created: 7/12/2013 3:23:45 PM  
 Modified: 7/12/2013 3:45:05 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : wgbs control 15c**

Number of peaks found: 0                      Corr. Area 1: 2.2  
 Noise: 0.1

**Peak table for sample 3 : wgbs control 15c**

| 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 3 : wgbs control 15c**

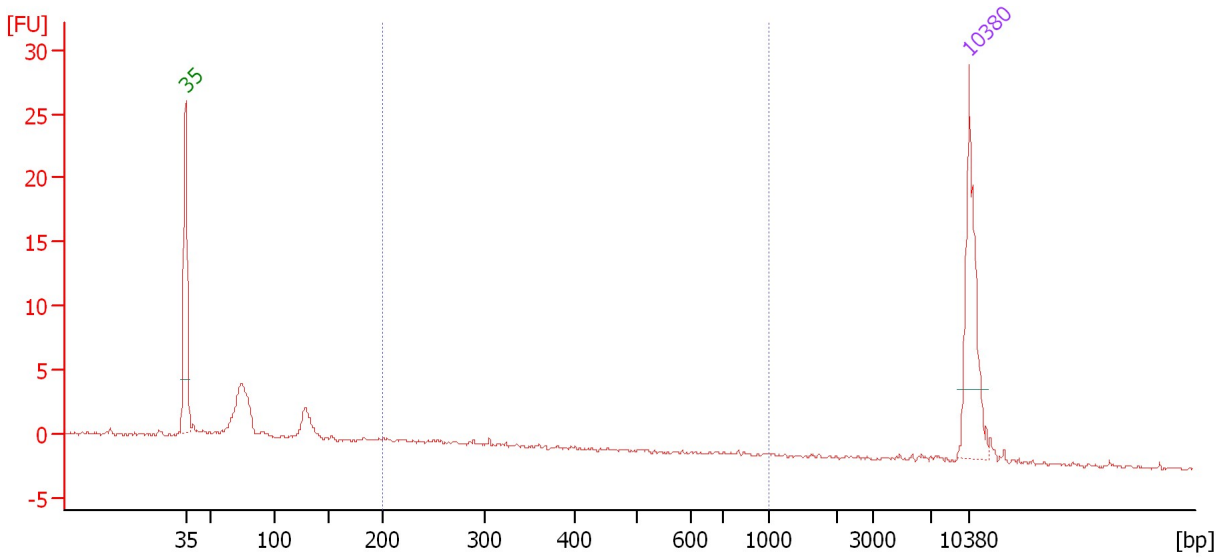
| From [bp] | To [bp] | Average Size [bp] | Molarity [pmol/l] | Conc. [pg/μl] | Corr. Area | % of Total | Size distribution in CV [%] | Color |
|-----------|---------|-------------------|-------------------|---------------|------------|------------|-----------------------------|-------|
| 200       | 1,000   | 299               | 45.0              | 8.24          | 2.2        | 9          | 33.8                        | Blue  |



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-07-12\2013-07-12\_003.xad

Created: 7/12/2013 3:23:45 PM  
 Modified: 7/12/2013 3:45:05 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 4 :**

Number of peaks found: 0                      Corr. Area 1: 5.0  
 Noise: 0.1

**Peak table for sample 4 :**

| 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 |

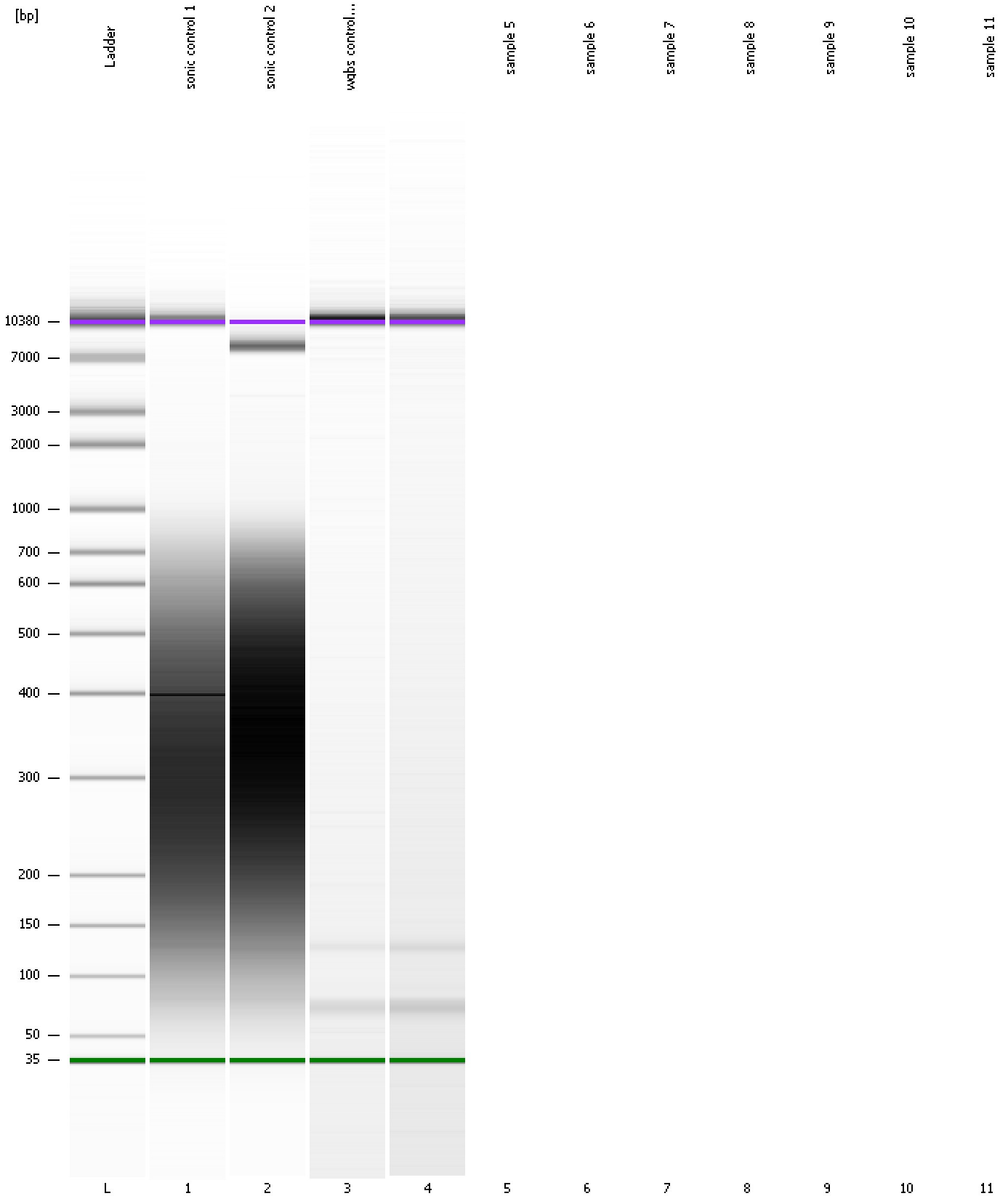
**Region table for sample 4 :**

| From [bp] | To [bp] | Average Size [bp] | Molarity [pmol/l] | Conc. [pg/μl] | Corr. Area | % of Total | Size distribution in CV [%] | Color |
|-----------|---------|-------------------|-------------------|---------------|------------|------------|-----------------------------|-------|
| 200       | 1,000   | 368               | 116.0             | 22.65         | 5.0        | 14         | 49.1                        | Blue  |

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-07-12\2013-07-12\_003.xad

Created: 7/12/2013 3:23:45 PM  
Modified: 7/12/2013 3:45:05 PM

**Gel Image**



Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-07-12\2013-07-12\_003.xad

Created: 7/12/2013 3:23:45 PM  
Modified: 7/12/2013 3:45:05 PM

**Invalid Samples**

- Sample 5 has not been run, no results available.
- Sample 6 has not been run, no results available.
- Sample 7 has not been run, no results available.
- Sample 8 has not been run, no results available.
- Sample 9 has not been run, no results available.
- Sample 10 has not been run, no results available.
- Sample 11 has not been run, no results available.

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-07-12\2013-07-12\_003.xad

Created: 7/12/2013 3:23:45 PM  
 Modified: 7/12/2013 3:45:05 PM

**Run Logbook**

| Description                                                                                       | Number | Source     | Category | Sub Category | Time                 | Time Zone                           | User     | Host     |
|---------------------------------------------------------------------------------------------------|--------|------------|----------|--------------|----------------------|-------------------------------------|----------|----------|
| Run ended on port 1 (Number of wells acquired: 5)                                                 |        | Instrument | Run      |              | 7/12/2013 3:45:02 PM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2013-07-12\2013-07-12_003.xad) |        | Instrument | Run      |              | 7/12/2013 3:23:51 PM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Product Number : G2938B                                                                           |        | Instrument | Run      |              | 7/12/2013 3:23:51 PM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Name :                                                                                            |        | Instrument | Run      |              | 7/12/2013 3:23:51 PM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Vendor : Agilent Technologies                                                                     |        | Instrument | Run      |              | 7/12/2013 3:23:51 PM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Serial# : DE13701086                                                                              |        | Instrument | Run      |              | 7/12/2013 3:23:51 PM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Firmware : C.01.069                                                                               |        | Instrument | Run      |              | 7/12/2013 3:23:51 PM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Cartridge : Electrode                                                                             |        | Instrument | Run      |              | 7/12/2013 3:23:51 PM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |