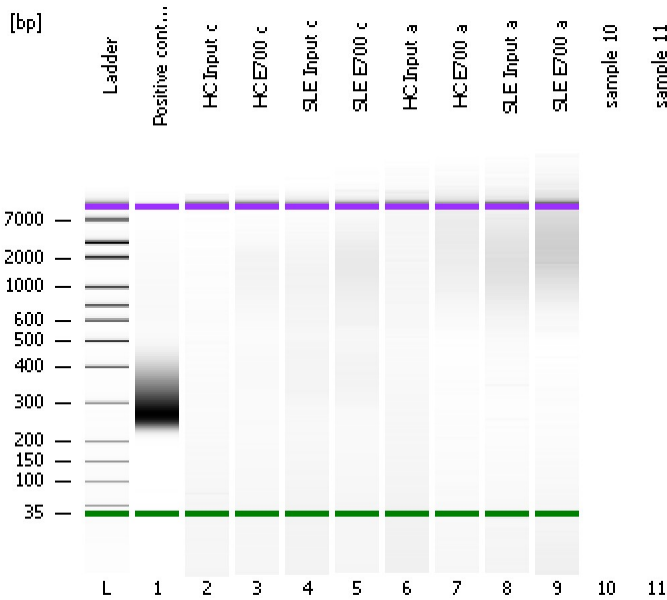


Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-12-10\2013-12-10\_003.xad

Created: 12/10/2013 11:22:58 AM  
Modified: 12/10/2013 12:01:03 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

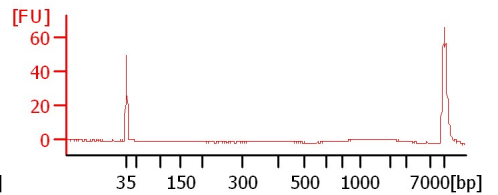
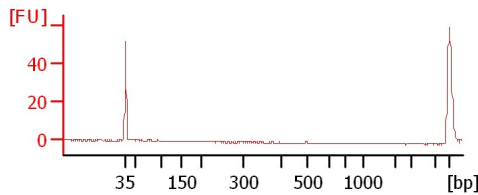
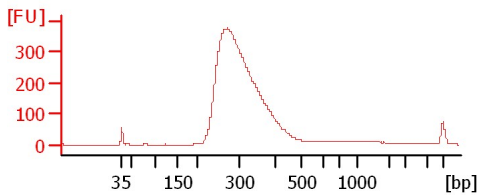
Chip Information:

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

Positive control RNA

HC Input c

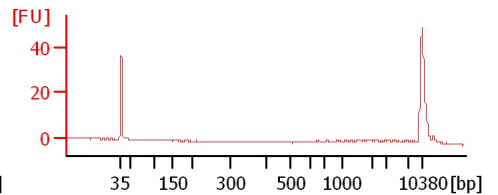
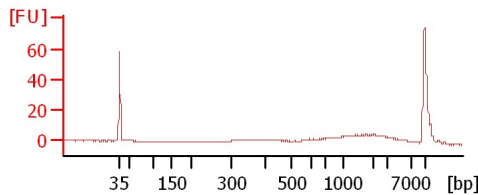
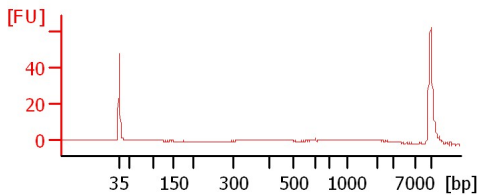
HC E700 c



SLE Input c

SLE E700 c

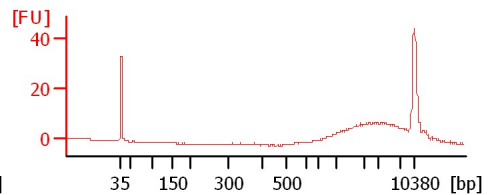
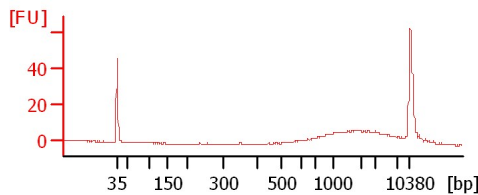
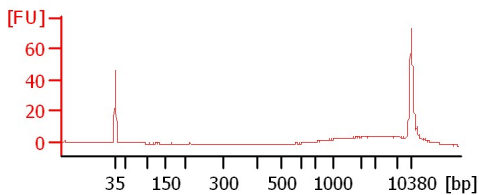
HC Input a



HC E700 a

SLE Input a

SLE E700 a



Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-12-10\2013-12-10\_003.xad

Created: 12/10/2013 11:22:58 AM  
Modified: 12/10/2013 12:01:03 PM

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

| Sample Name          | Sample Comment | Rest. Digest             | Status | Observation | Result Label | Result Color |
|----------------------|----------------|--------------------------|--------|-------------|--------------|--------------|
| Positive control RNA |                | <input type="checkbox"/> | ✓      |             |              |              |
| HC Input c           |                | <input type="checkbox"/> | ✓      |             |              |              |
| HC E700 c            |                | <input type="checkbox"/> | ✓      |             |              |              |
| SLE Input c          |                | <input type="checkbox"/> | ✓      |             |              |              |
| SLE E700 c           |                | <input type="checkbox"/> | ✓      |             |              |              |
| HC Input a           |                | <input type="checkbox"/> | ✓      |             |              |              |
| HC E700 a            |                | <input type="checkbox"/> | ✓      |             |              |              |
| SLE Input a          |                | <input type="checkbox"/> | ✓      |             |              |              |
| SLE E700 a           |                | <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\2013-12-10\2013-12-10\_003.xad

Created: 12/10/2013 11:22:58 AM  
Modified: 12/10/2013 12:01:03 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

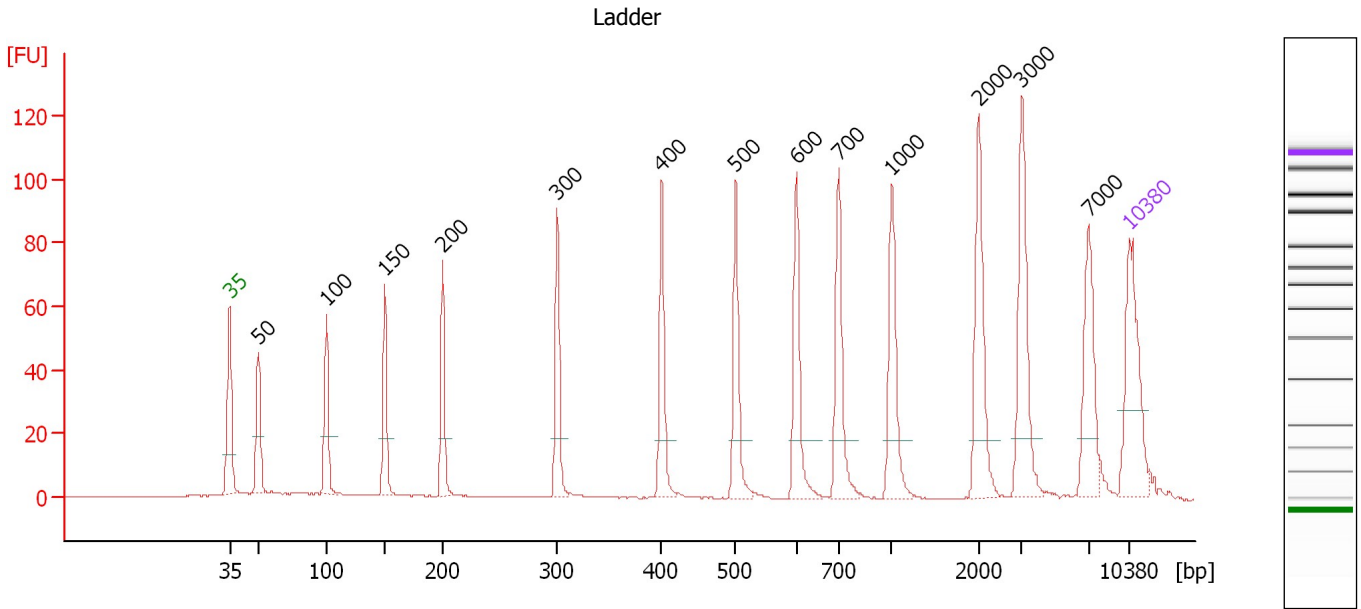
**Ladder**

| 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\2013-12-10\2013-12-10\_003.xad

Created: 12/10/2013 11:22:58 AM  
 Modified: 12/10/2013 12:01:03 PM

**Electropherogram Summary**



**Overall Results for Ladder**

Noise: 0.2

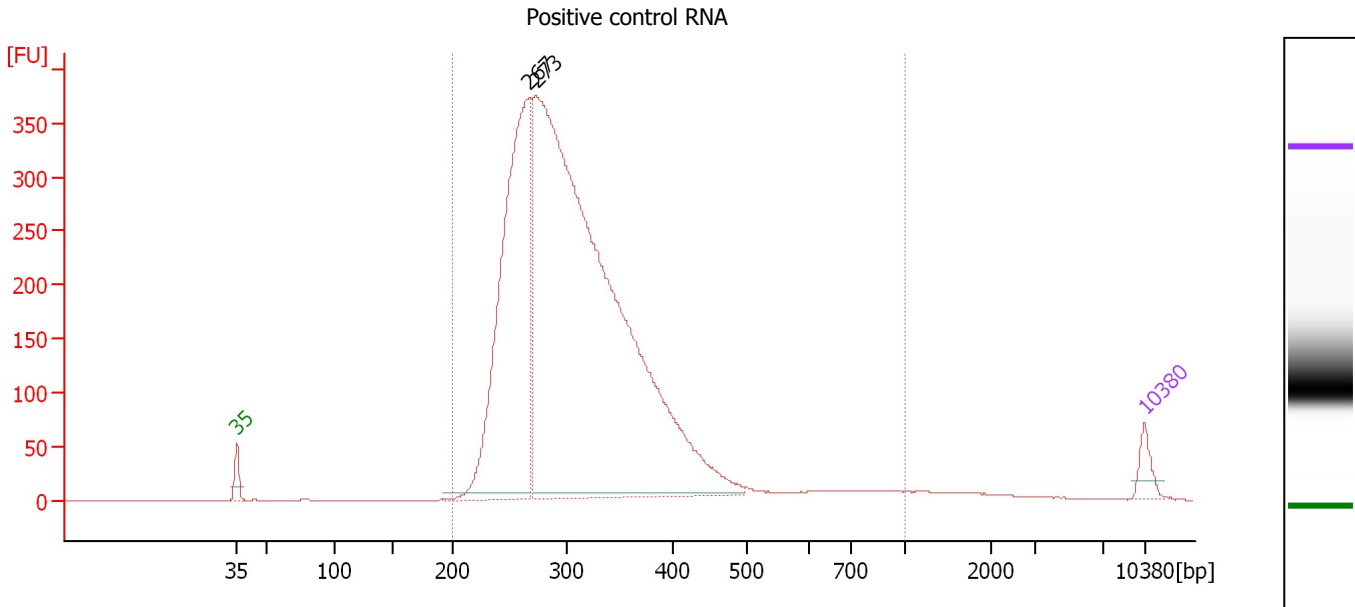
**Peak table for Ladder**

| Peak | Aligned Migration Time [s] | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations |
|------|----------------------------|-----------|---------------|-------------------|--------------|
| 1    | 43.00                      | 35        | 125.00        | 5,411.3           | Lower Marker |
| 2    | 45.24                      | 50        | 150.00        | 4,545.5           | Ladder Peak  |
| 3    | 50.55                      | 100       | 150.00        | 2,272.7           | Ladder Peak  |
| 4    | 55.07                      | 150       | 150.00        | 1,515.2           | Ladder Peak  |
| 5    | 59.59                      | 200       | 150.00        | 1,136.4           | Ladder Peak  |
| 6    | 68.46                      | 300       | 150.00        | 757.6             | Ladder Peak  |
| 7    | 76.59                      | 400       | 150.00        | 568.2             | Ladder Peak  |
| 8    | 82.35                      | 500       | 150.00        | 454.5             | Ladder Peak  |
| 9    | 87.08                      | 600       | 150.00        | 378.8             | Ladder Peak  |
| 10   | 90.36                      | 700       | 150.00        | 324.7             | Ladder Peak  |
| 11   | 94.50                      | 1,000     | 150.00        | 227.3             | Ladder Peak  |
| 12   | 101.22                     | 2,000     | 150.00        | 113.6             | Ladder Peak  |
| 13   | 104.62                     | 3,000     | 150.00        | 75.8              | Ladder Peak  |
| 14   | 109.81                     | 7,000     | 150.00        | 32.5              | Ladder Peak  |
| 15   | 113.00                     | 10,380    | 75.00         | 10.9              | Upper Marker |

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-12-10\2013-12-10\_003.xad

Created: 12/10/2013 11:22:58 AM  
 Modified: 12/10/2013 12:01:03 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 1 : Positive control RNA**

Number of peaks found: 2                                      Corr. Area 1: 5,709.4  
 Noise: 0.2

**Peak table for sample 1 : Positive control RNA**

| Peak | Aligned Migration Time [s] | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations |
|------|----------------------------|-----------|---------------|-------------------|--------------|
| 1    | 43.00                      | 35        | 125.00        | 5,411.3           | Lower Marker |
| 2    | 65.57                      | 267       | 3,061.35      | 17,348.5          |              |
| 3    | 66.06                      | 273       | 8,034.27      | 44,602.5          |              |
| 4    | 113.00                     | 10,380    | 75.00         | 10.9              | Upper Marker |

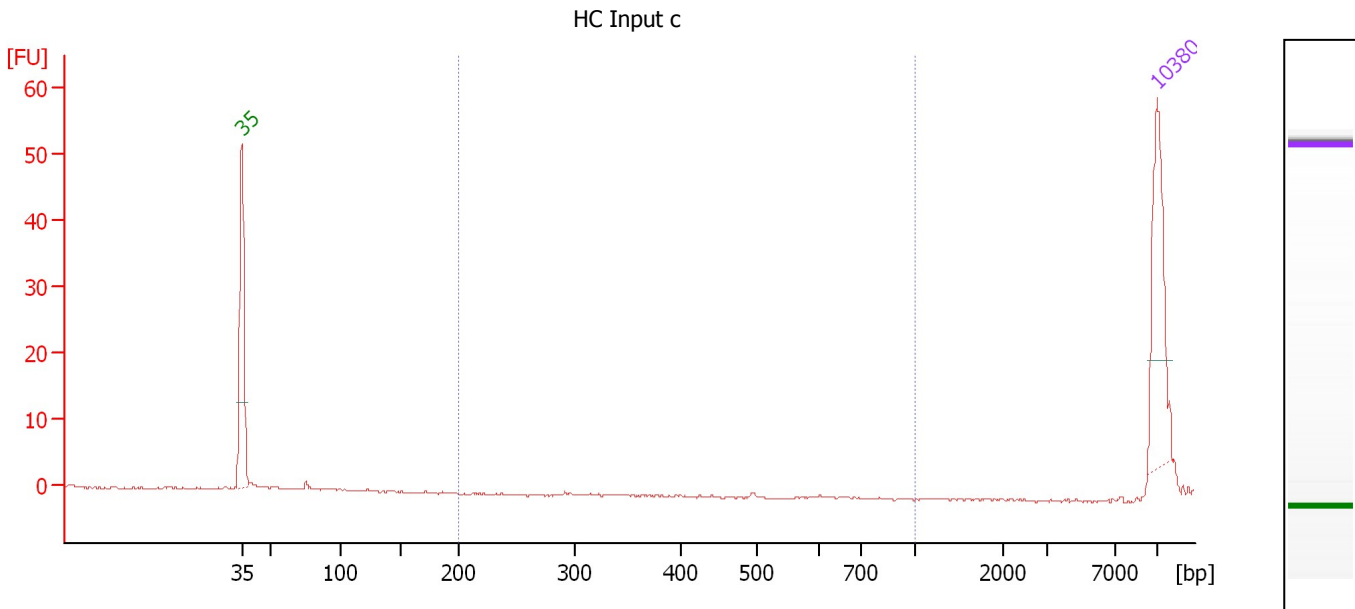
**Region table for sample 1 : Positive control RNA**

| 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   | 318               | 54,015.5          | 10,671.10     | 5,709.4    | 98         | 26.5                        | Blue  |

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-12-10\2013-12-10\_003.xad

Created: 12/10/2013 11:22:58 AM  
 Modified: 12/10/2013 12:01:03 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : HC Input c**

Number of peaks found: 0                      Corr. Area 1: 0.0  
 Noise: 0.2

**Peak table for sample 2 : HC Input c**

| Peak | Aligned Migration Time [s] | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations |
|------|----------------------------|-----------|---------------|-------------------|--------------|
| 1    | 43.00                      | 35        | 125.00        | 5,411.3           | Lower Marker |
| 2    | 113.00                     | 10,380    | 75.00         | 10.9              | Upper Marker |

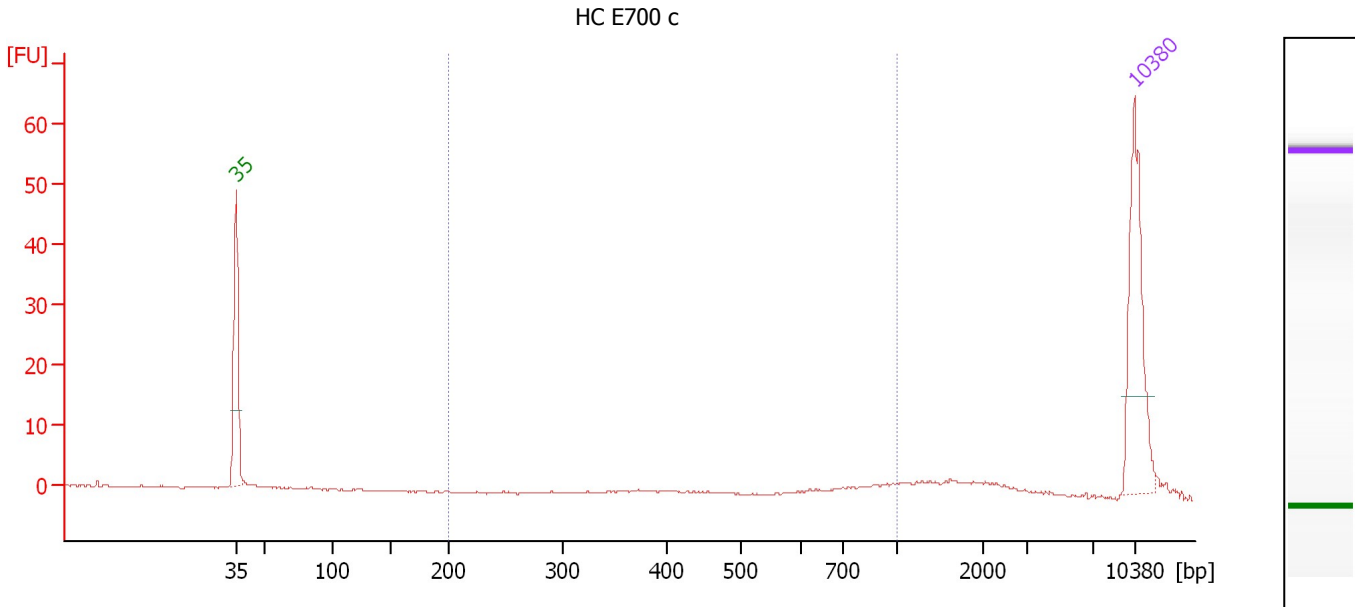
**Region table for sample 2 : HC Input c**

| 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   | 0                 | 0.0               | 0.00          | 0.0        | 0          | 0.0                         | Blue  |

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-12-10\2013-12-10\_003.xad

Created: 12/10/2013 11:22:58 AM  
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**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : HC E700 c**

Number of peaks found: 0                      Corr. Area 1: 14.9  
 Noise: 0.2

**Peak table for sample 3 : HC E700 c**

| Peak | Aligned Migration Time [s] | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations |
|------|----------------------------|-----------|---------------|-------------------|--------------|
| 1    | 43.00                      | 35        | 125.00        | 5,411.3           | Lower Marker |
| 2    | 113.00                     | 10,380    | 75.00         | 10.9              | Upper Marker |

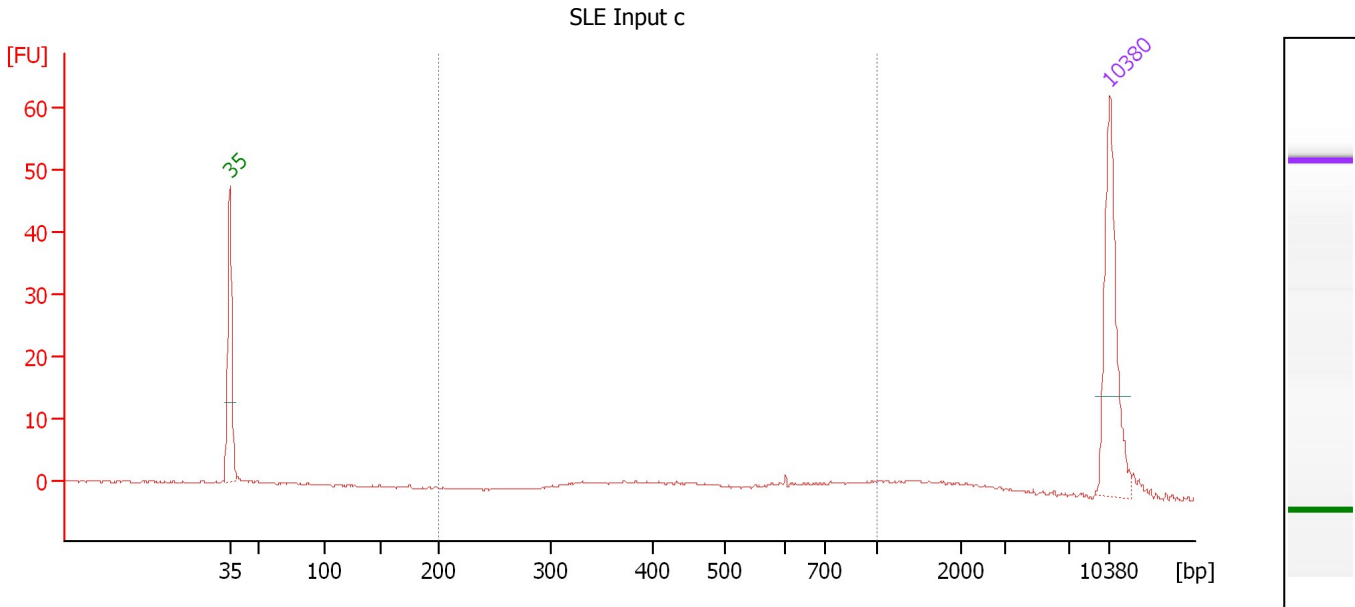
**Region table for sample 3 : HC E700 c**

| 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   | 712               | 51.9              | 21.40         | 14.9       | 31         | 26.8                        | Blue  |

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-12-10\2013-12-10\_003.xad

Created: 12/10/2013 11:22:58 AM  
 Modified: 12/10/2013 12:01:03 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : SLE Input c**

Number of peaks found: 0                      Corr. Area 1: 29.5  
 Noise: 0.2

**Peak table for sample 4 : SLE Input c**

| Peak | Aligned Migration Time [s] | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations |
|------|----------------------------|-----------|---------------|-------------------|--------------|
| 1    | 43.00                      | 35        | 125.00        | 5,411.3           | Lower Marker |
| 2    | 113.00                     | 10,380    | 75.00         | 10.9              | Upper Marker |

**Region table for sample 4 : SLE Input c**

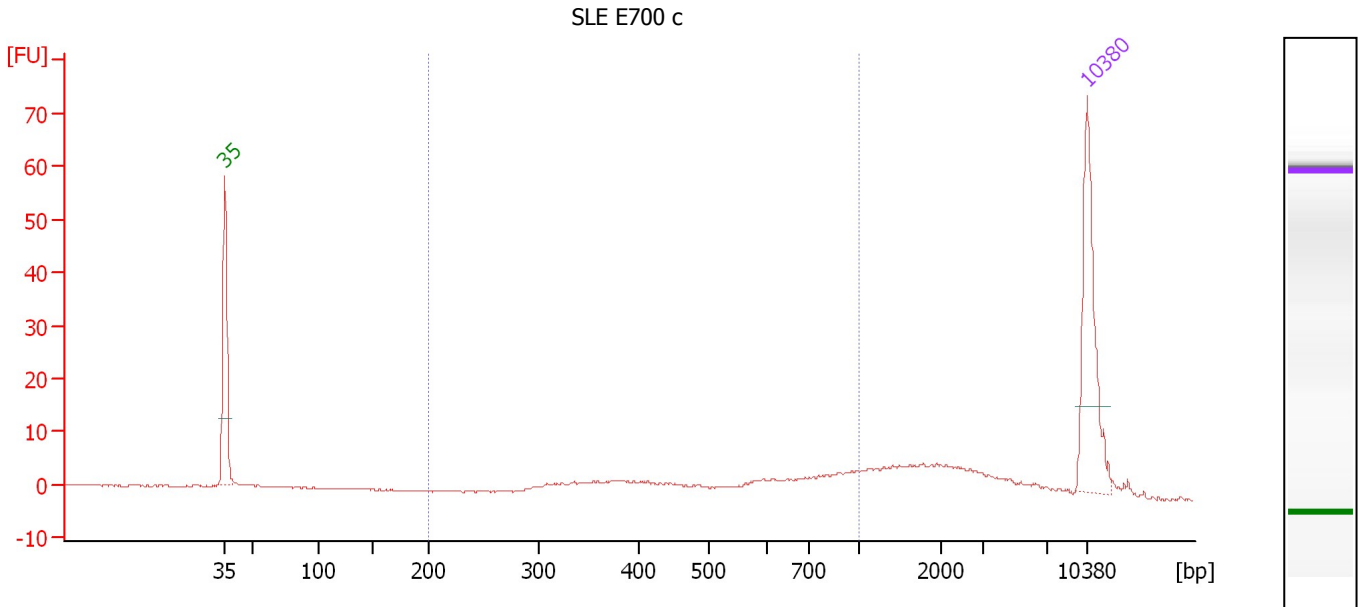
| From [bp] | To [bp] | Average Size [bp] | Molarity [pmol/l] | Conc. [pg/μl] | Corr. Area | % of Total | Size distribution in CV [%] | Color |
|-----------|---------|-------------------|-------------------|---------------|------------|------------|-----------------------------|-------|
| 200       | 1,000   | 571               | 151.1             | 48.71         | 29.5       | 57         | 34.2                        | Blue  |



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-12-10\2013-12-10\_003.xad

Created: 12/10/2013 11:22:58 AM  
 Modified: 12/10/2013 12:01:03 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 5 : SLE E700 c**

Number of peaks found: 0                      Corr. Area 1: 71.1  
 Noise: 0.1

**Peak table for sample 5 : SLE E700 c**

| Peak | Aligned Migration Time [s] | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations |
|------|----------------------------|-----------|---------------|-------------------|--------------|
| 1    | 43.00                      | 35        | 125.00        | 5,411.3           | Lower Marker |
| 2    | 113.00                     | 10,380    | 75.00         | 10.9              | Upper Marker |

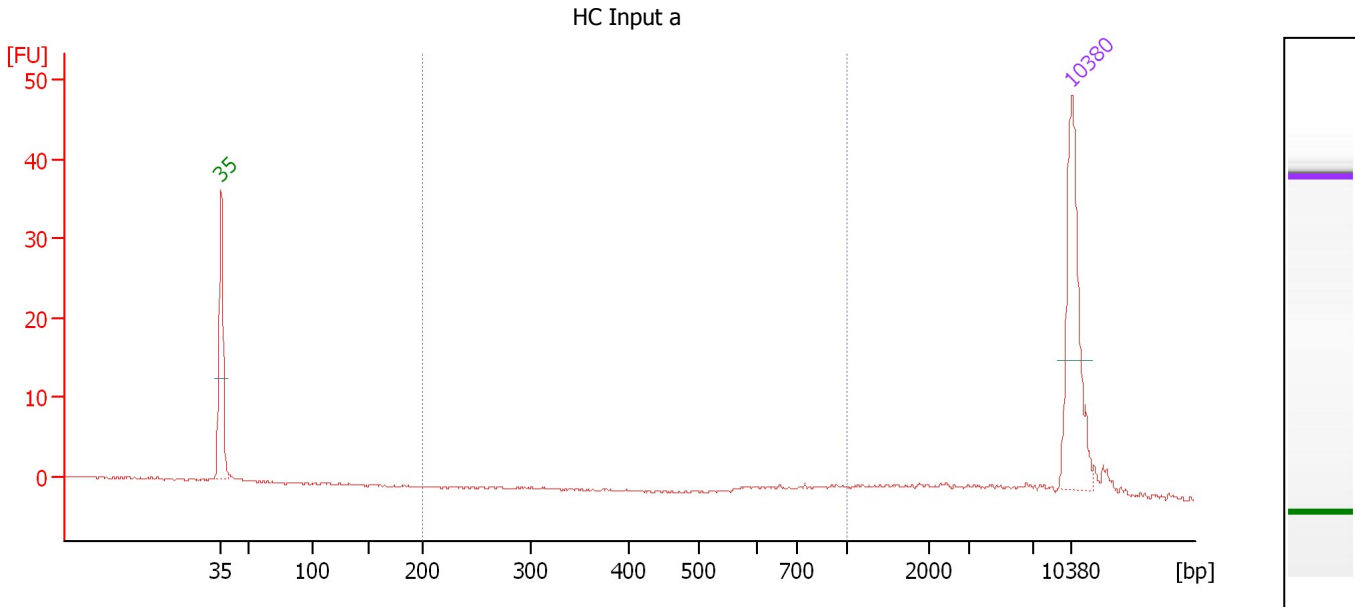
**Region table for sample 5 : SLE E700 c**

| 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   | 588               | 306.6             | 99.99         | 71.1       | 46         | 34.6                        | Blue  |

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-12-10\2013-12-10\_003.xad

Created: 12/10/2013 11:22:58 AM  
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**Electropherogram Summary Continued ...**



**Overall Results for sample 6 : HC Input a**

Number of peaks found: 0                      Corr. Area 1: 6.8  
 Noise: 0.1

**Peak table for sample 6 : HC Input a**

| Peak | Aligned Migration Time [s] | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations |
|------|----------------------------|-----------|---------------|-------------------|--------------|
| 1    | 43.00                      | 35        | 125.00        | 5,411.3           | Lower Marker |
| 2    | 113.00                     | 10,380    | 75.00         | 10.9              | Upper Marker |

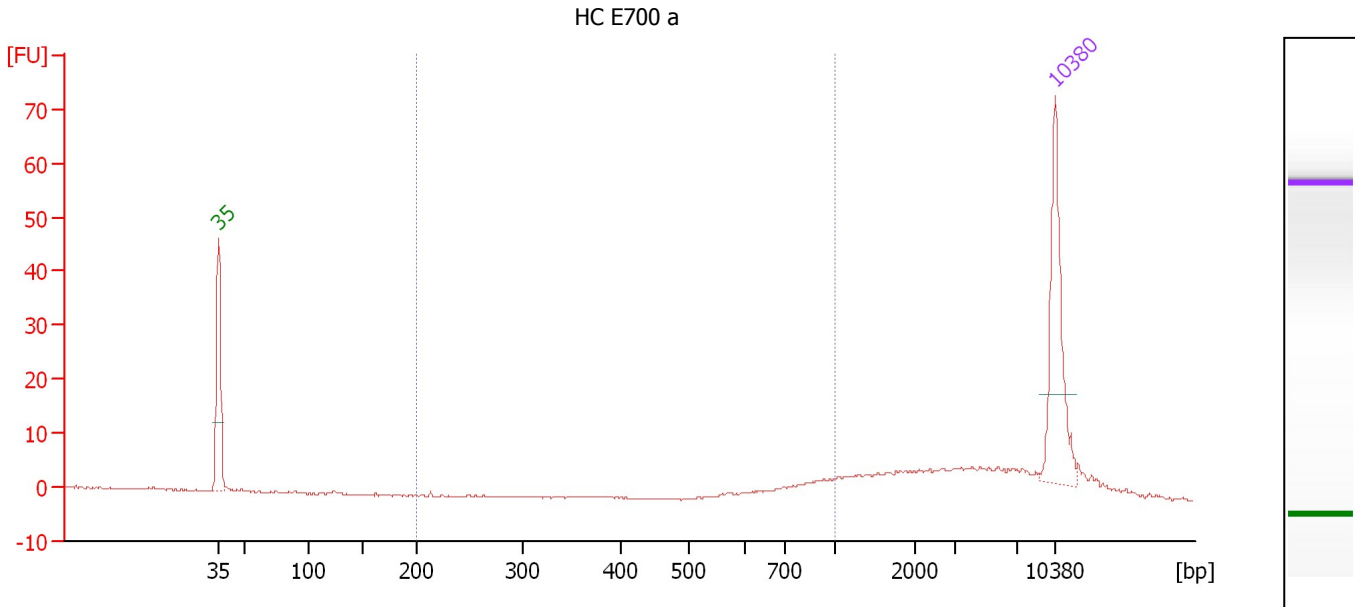
**Region table for sample 6 : HC Input a**

| 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   | 751               | 25.9              | 12.39         | 6.8        | 18         | 17.9                        | Blue  |

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-12-10\2013-12-10\_003.xad

Created: 12/10/2013 11:22:58 AM  
 Modified: 12/10/2013 12:01:03 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 7 : HC E700 a**

Number of peaks found: 0                      Corr. Area 1: 14.9  
 Noise: 0.1

**Peak table for sample 7 : HC E700 a**

| Peak | Aligned Migration Time [s] | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations |
|------|----------------------------|-----------|---------------|-------------------|--------------|
| 1    | 43.00                      | 35        | 125.00        | 5,411.3           | Lower Marker |
| 2    | 113.00                     | 10,380    | 75.00         | 10.9              | Upper Marker |

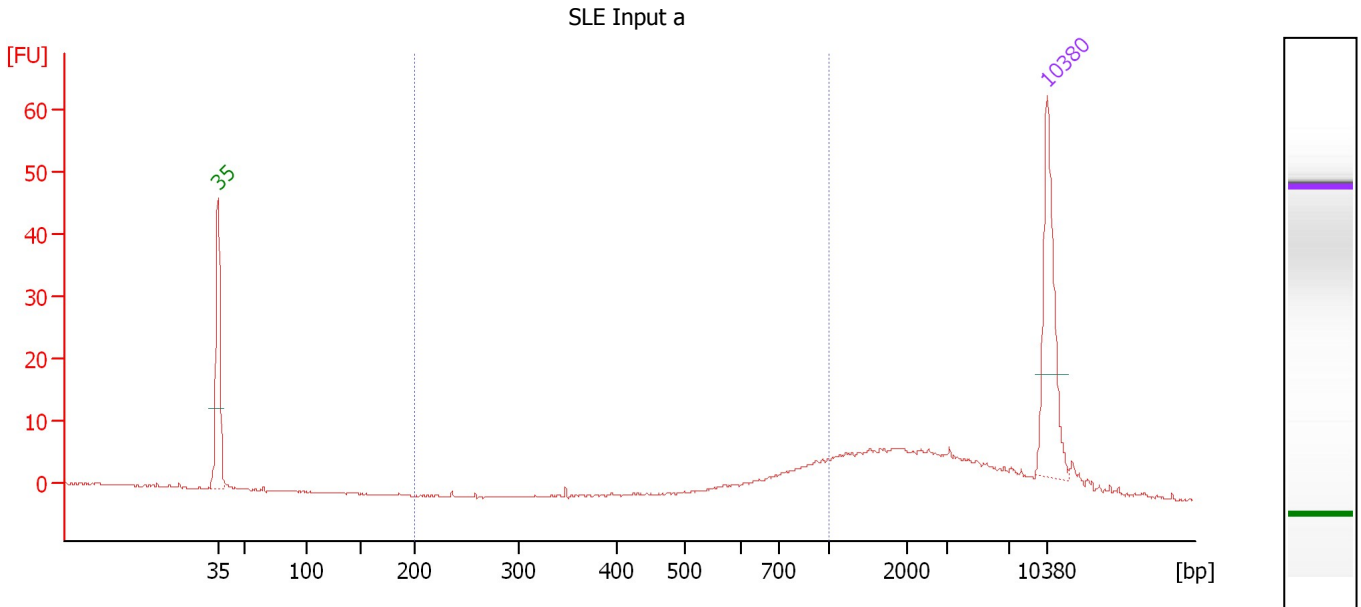
**Region table for sample 7 : HC E700 a**

| 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   | 806               | 41.0              | 21.29         | 14.9       | 13         | 15.3                        | Blue  |

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-12-10\2013-12-10\_003.xad

Created: 12/10/2013 11:22:58 AM  
 Modified: 12/10/2013 12:01:03 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 8 : SLE Input a**

Number of peaks found: 0                      Corr. Area 1: 34.1  
 Noise: 0.1

**Peak table for sample 8 : SLE Input a**

| Peak | Aligned Migration Time [s] | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations |
|------|----------------------------|-----------|---------------|-------------------|--------------|
| 1    | 43.00                      | 35        | 125.00        | 5,411.3           | Lower Marker |
| 2    | 113.00                     | 10,380    | 75.00         | 10.9              | Upper Marker |

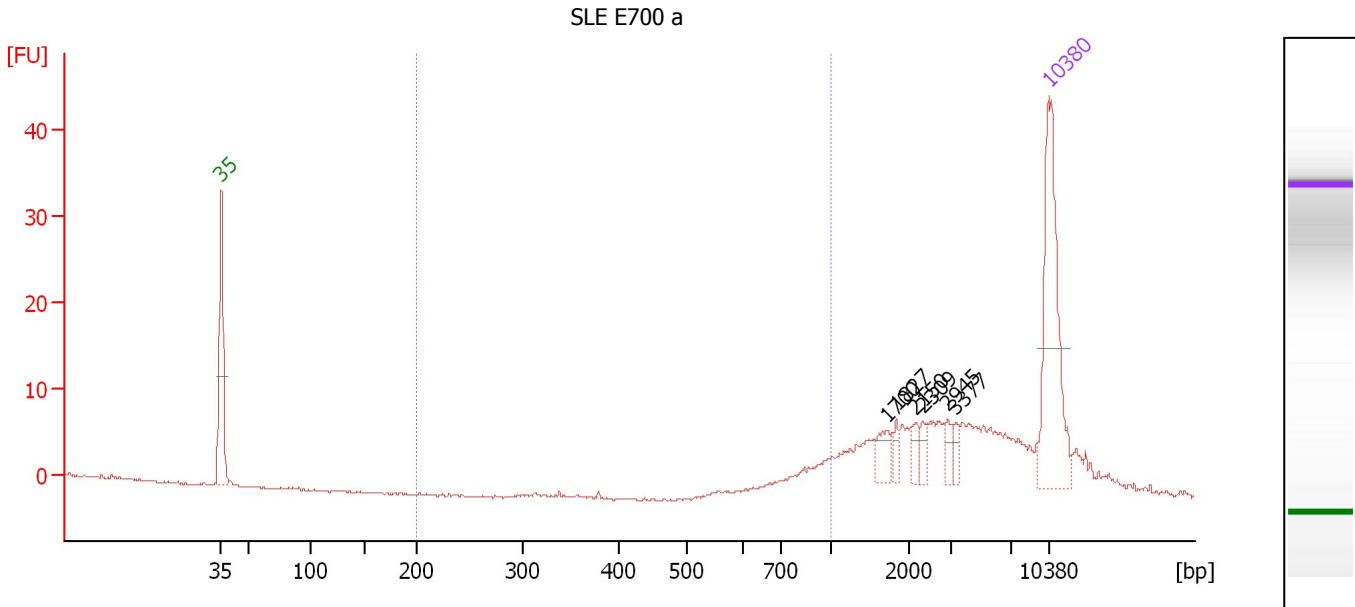
**Region table for sample 8 : SLE Input a**

| 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   | 769               | 118.0             | 57.57         | 34.1       | 22         | 18.1                        | Blue  |

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-12-10\2013-12-10\_003.xad

Created: 12/10/2013 11:22:58 AM  
 Modified: 12/10/2013 12:01:03 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 9 : SLE E700 a**

Number of peaks found: 6                      Corr. Area 1: 10.4  
 Noise: 0.1

**Peak table for sample 9 : SLE E700 a**

| Peak | Aligned Migration Time [s] | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations |
|------|----------------------------|-----------|---------------|-------------------|--------------|
| 1    | 43.00                      | 35        | 125.00        | 5,411.3           | Lower Marker |
| 2    | 99.21                      | 1,700     | 11.61         | 10.3              |              |
| 3    | 100.06                     | 1,827     | 5.57          | 4.6               |              |
| 4    | 101.73                     | 2,150     | 7.33          | 5.2               |              |
| 5    | 102.27                     | 2,309     | 6.22          | 4.1               |              |
| 6    | 104.44                     | 2,945     | 6.75          | 3.5               |              |
| 7    | 105.11                     | 3,377     | 5.72          | 2.6               |              |
| 8    | 113.00                     | 10,380    | 75.00         | 10.9              | Upper Marker |

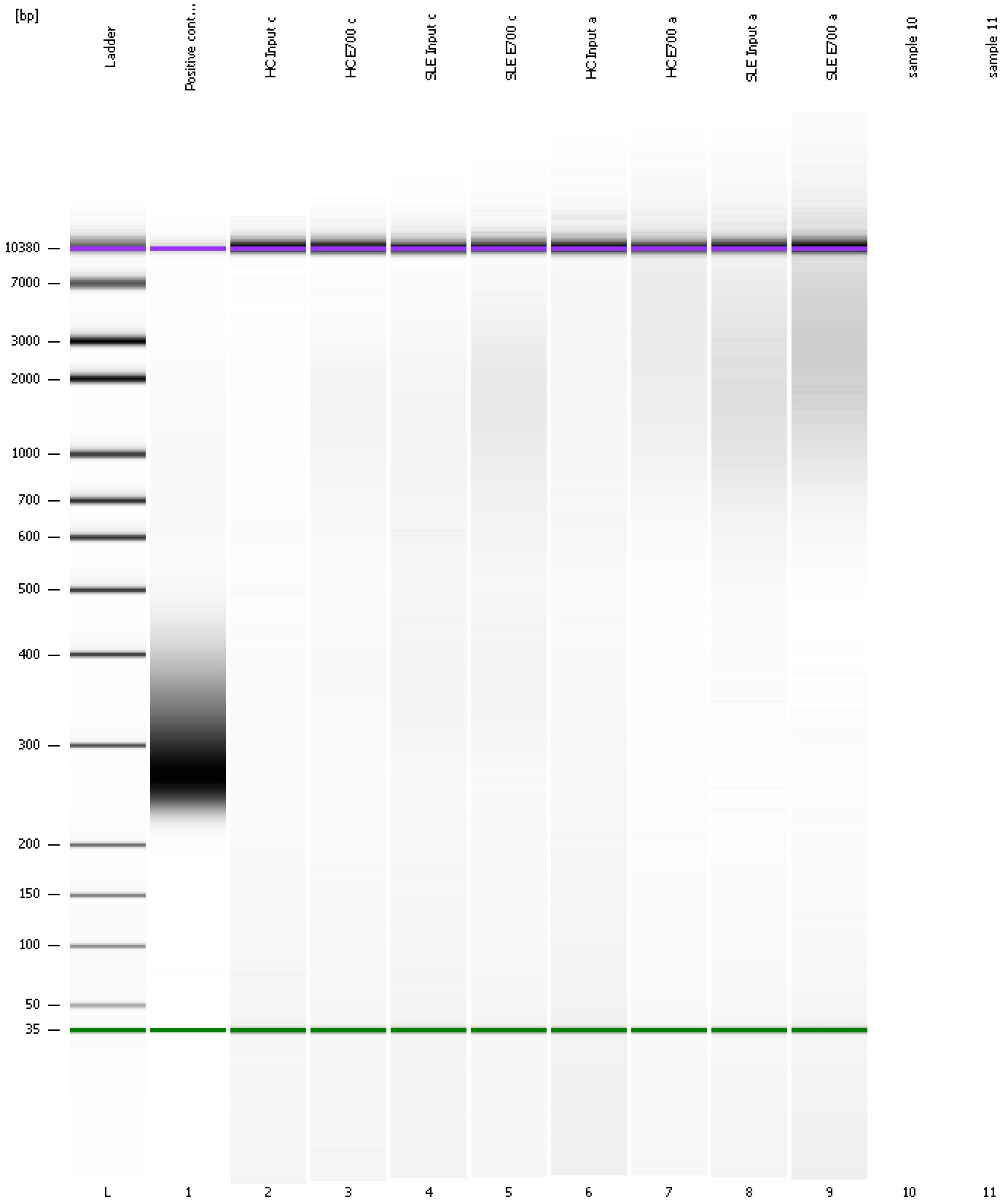
**Region table for sample 9 : SLE E700 a**

| 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   | 863               | 31.4              | 17.75         | 10.4       | 8          | 11.2                        | Blue  |

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-12-10\2013-12-10\_003.xad

Created: 12/10/2013 11:22:58 AM  
Modified: 12/10/2013 12:01:03 PM

**Gel Image**



Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2013-12-10\2013-12-10\_003.xad

Created: 12/10/2013 11:22:58 AM  
Modified: 12/10/2013 12:01:03 PM

**Invalid Samples**

Sample 10 has not been run, no results available.

Sample 11 has not been run, no results available.