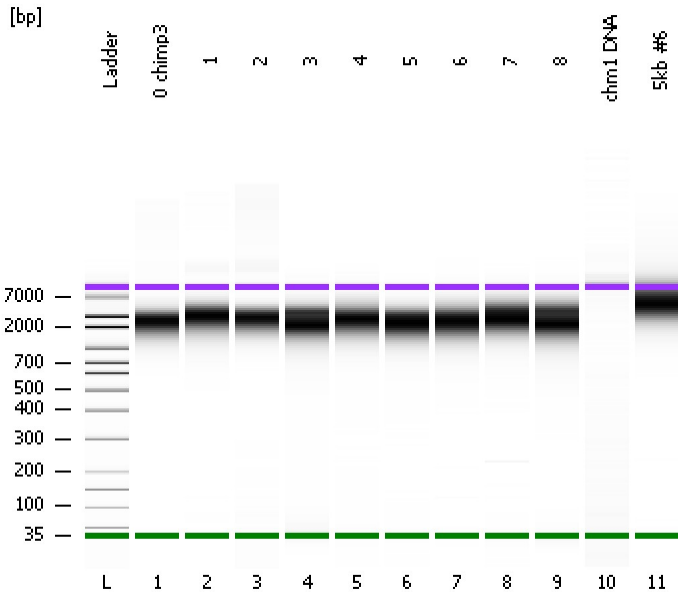


Assay Class: High Sensitivity DNA Assay  
Data Path: C:\... bioanalyzer\2100 expert\data\2019-07-02\2019-07-02\_002.xad

Created: 7/2/2019 4:52:36 PM  
Modified: 7/2/2019 5:35:27 PM

**Electrophoresis File Run Summary**



Instrument Information:

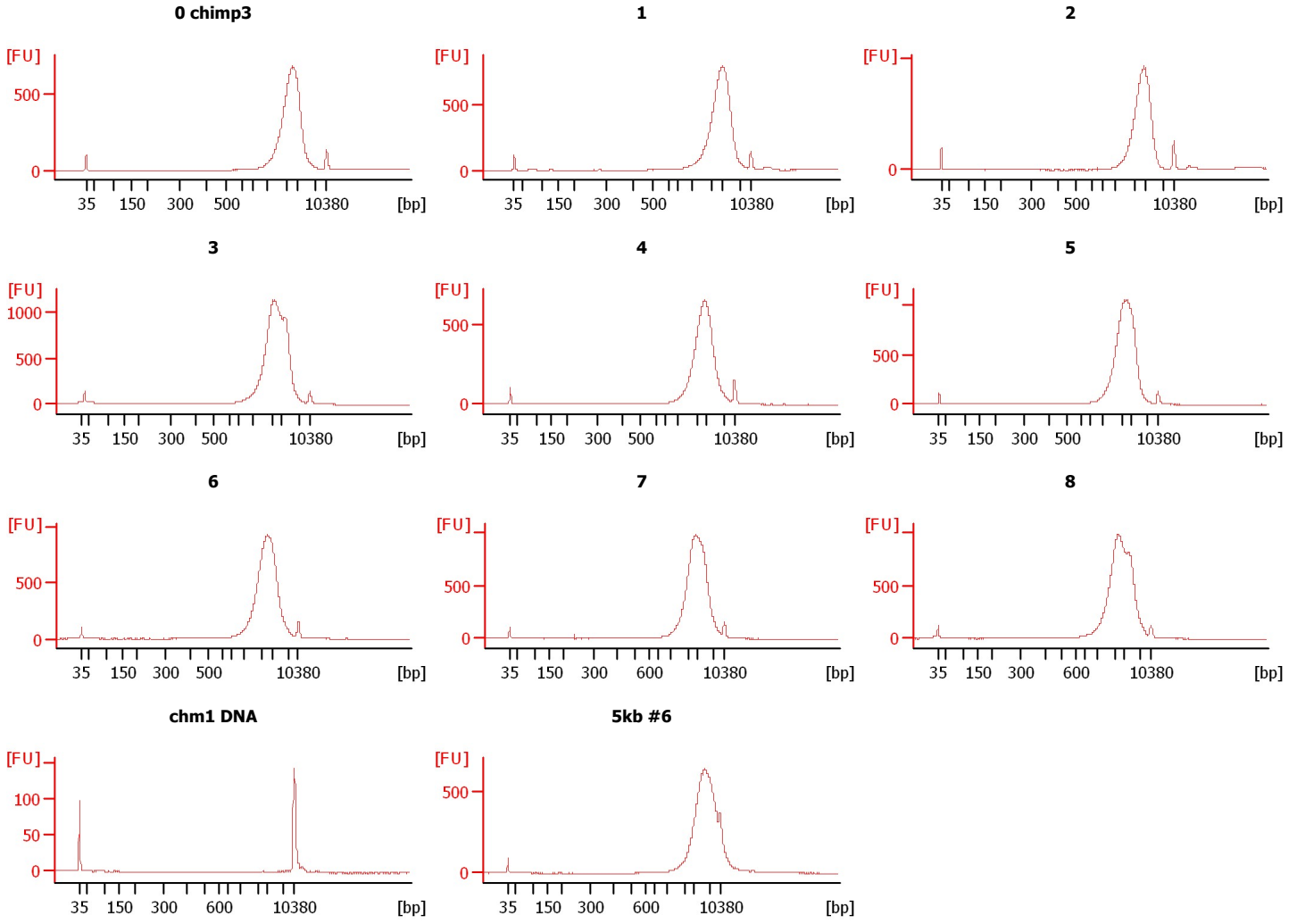
Instrument Name: DE34903152      Firmware: C.01.069  
Serial#: DE34903152      Type: G2938C

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:



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-07-02\2019-07-02\_002.xad

Created: 7/2/2019 4:52:36 PM  
 Modified: 7/2/2019 5:35:27 PM

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

| Sample Name | Sample Comment | Rest. Digest             | Status | Observation | Result Label | Result Color |
|-------------|----------------|--------------------------|--------|-------------|--------------|--------------|
| 0 chimp3    |                | <input type="checkbox"/> | ✓      |             |              |              |
| 1           |                | <input type="checkbox"/> | ✓      |             |              |              |
| 2           |                | <input type="checkbox"/> | ✓      |             |              |              |
| 3           |                | <input type="checkbox"/> | ✓      |             |              |              |
| 4           |                | <input type="checkbox"/> | ✓      |             |              |              |
| 5           |                | <input type="checkbox"/> | ✓      |             |              |              |
| 6           |                | <input type="checkbox"/> | ✓      |             |              |              |
| 7           |                | <input type="checkbox"/> | ✓      |             |              |              |
| 8           |                | <input type="checkbox"/> | ✓      |             |              |              |
| chm1 DNA    |                | <input type="checkbox"/> | ✓      |             |              |              |
| 5kb #6      |                | <input type="checkbox"/> | ✓      |             |              |              |
| Ladder      |                | <input type="checkbox"/> | ✓      |             |              |              |

**Chip Lot #**

**Reagent Kit Lot #**

**Chip Comments :**

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\... bioanalyzer\2100 expert\data\2019-07-02\2019-07-02\_002.xad

Created: 7/2/2019 4:52:36 PM  
Modified: 7/2/2019 5:35:27 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

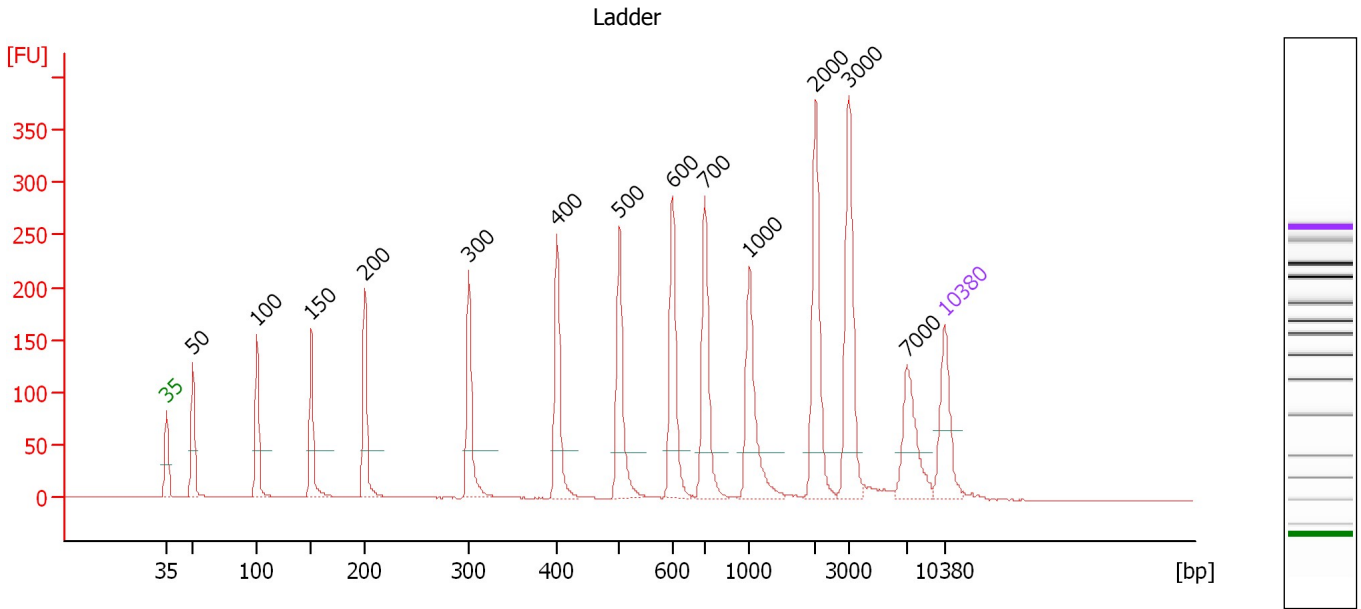
**Ladder**

| 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:\... bioanalyzer\2100 expert\data\2019-07-02\2019-07-02\_002.xad

Created: 7/2/2019 4:52:36 PM  
 Modified: 7/2/2019 5:35:27 PM

**Electropherogram Summary**



**Overall Results for Ladder**

Noise: 0.2

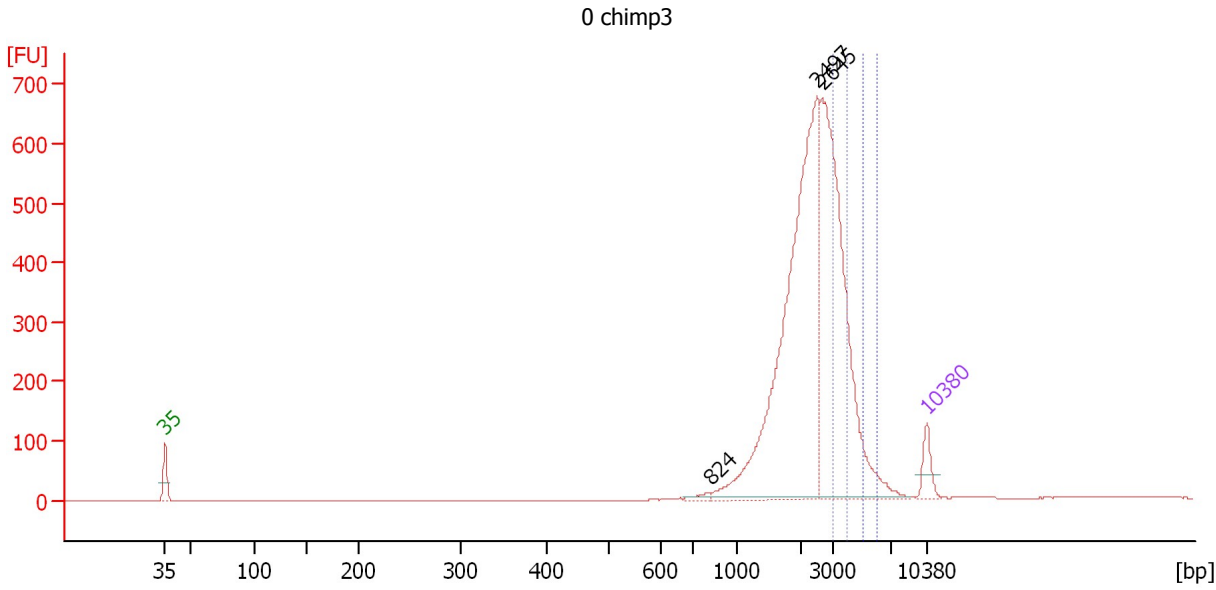
**Peak table for Ladder**

| Peak | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations | Aligned Migration Time [s] |
|------|-----------|---------------|-------------------|--------------|----------------------------|
| 1    | 35        | 125.00        | 5,411.3           | Lower Marker | 43.00                      |
| 2    | 50        | 150.00        | 4,545.5           | Ladder Peak  | 45.35                      |
| 3    | 100       | 150.00        | 2,272.7           | Ladder Peak  | 51.11                      |
| 4    | 150       | 150.00        | 1,515.2           | Ladder Peak  | 56.01                      |
| 5    | 200       | 150.00        | 1,136.4           | Ladder Peak  | 60.81                      |
| 6    | 300       | 150.00        | 757.6             | Ladder Peak  | 70.22                      |
| 7    | 400       | 150.00        | 568.2             | Ladder Peak  | 78.14                      |
| 8    | 500       | 150.00        | 454.5             | Ladder Peak  | 83.76                      |
| 9    | 600       | 150.00        | 378.8             | Ladder Peak  | 88.51                      |
| 10   | 700       | 150.00        | 324.7             | Ladder Peak  | 91.44                      |
| 11   | 1,000     | 150.00        | 227.3             | Ladder Peak  | 95.48                      |
| 12   | 2,000     | 150.00        | 113.6             | Ladder Peak  | 101.43                     |
| 13   | 3,000     | 150.00        | 75.8              | Ladder Peak  | 104.41                     |
| 14   | 7,000     | 150.00        | 32.5              | Ladder Peak  | 109.69                     |
| 15   | 10,380    | 75.00         | 10.9              | Upper Marker | 113.00                     |

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-07-02\2019-07-02\_002.xad

Created: 7/2/2019 4:52:36 PM  
 Modified: 7/2/2019 5:35:27 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 1 : 0 chimp3**

Number of peaks found: 3                      Corr. Area 1: 584.2  
 Noise: 0.3                                      Corr. Area 2: 79.5

**Peak table for sample 1 : 0 chimp3**

| Peak | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations | Aligned Migration Time [s] |
|------|-----------|---------------|-------------------|--------------|----------------------------|
| 1    | 35        | 125.00        | 5,411.3           | Lower Marker | 43.00                      |
| 2    | 824       | 21.67         | 39.8              |              | 93.11                      |
| 3    | 2,497     | 1,872.43      | 1,136.1           |              | 102.91                     |
| 4    | 2,645     | 1,408.49      | 806.8             |              | 103.35                     |
| 5    | 10,380    | 75.00         | 10.9              | Upper Marker | 113.00                     |

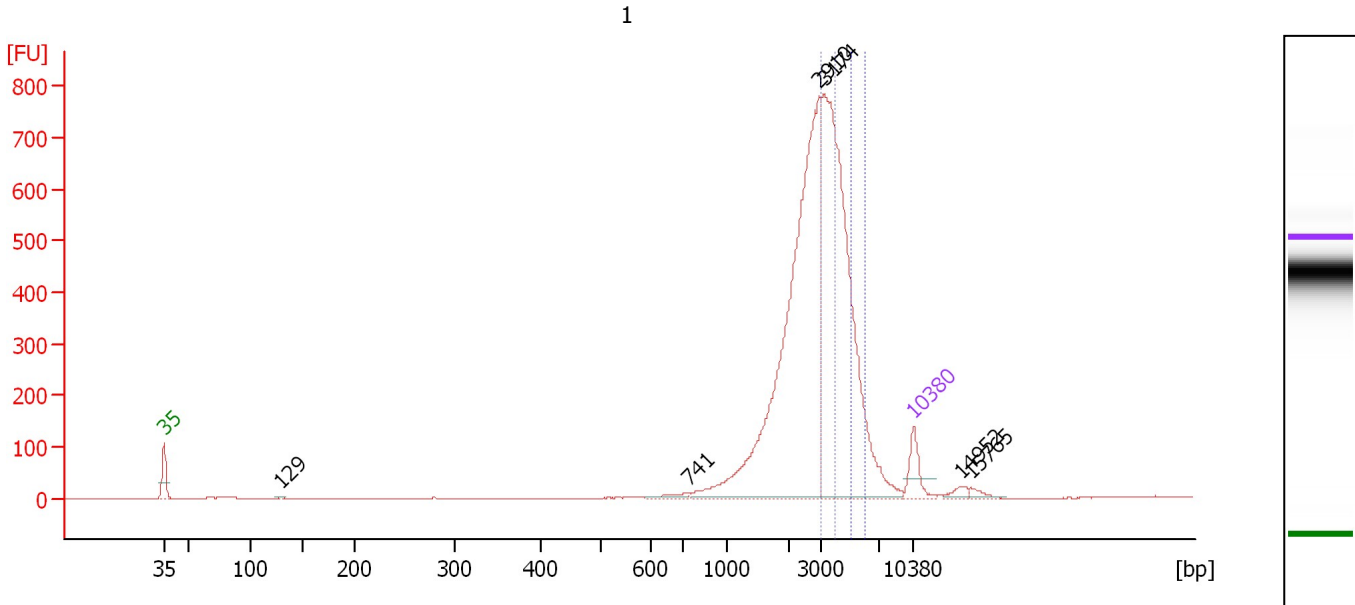
**Region table for sample 1 : 0 chimp3**

| From [bp] | To [bp] | Average Size [bp] | Conc. [pg/μl] | Corr. Area | Molarity [pmol/l] | Co % of lor Total | Size distribution in CV [%] |
|-----------|---------|-------------------|---------------|------------|-------------------|-------------------|-----------------------------|
| 3,000     | 4,000   | 3,424             | 472.32        | 584.2      | 209.0             | 14                | 8.5                         |
| 5,000     | 6,000   | 5,367             | 65.20         | 79.5       | 18.4              | 2                 | 5.5                         |

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-07-02\2019-07-02\_002.xad

Created: 7/2/2019 4:52:36 PM  
 Modified: 7/2/2019 5:35:27 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : 1**

Number of peaks found: 6                      Corr. Area 1: 990.3  
 Noise: 0.3                                      Corr. Area 2: 378.5

**Peak table for sample 2 : 1**

| Peak | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations | Aligned Migration Time [s] |
|------|-----------|---------------|-------------------|--------------|----------------------------|
| 1    | 35        | 125.00        | 5,411.3           | Lower Marker | 43.00                      |
| 2    | 129       | 5.65          | 66.4              |              | 53.95                      |
| 3    | 741       | 22.40         | 45.8              |              | 91.99                      |
| 4    | 2,910     | 1,631.25      | 849.4             |              | 104.14                     |
| 5    | 3,174     | 1,391.83      | 664.4             |              | 104.64                     |
| 6    | 10,380    | 75.00         | 10.9              | Upper Marker | 113.00                     |
| 7    | 14,952    | 0.00          | 0.0               |              | 117.48                     |
| 8    | 15,765    | 0.00          | 0.0               |              | 118.28                     |

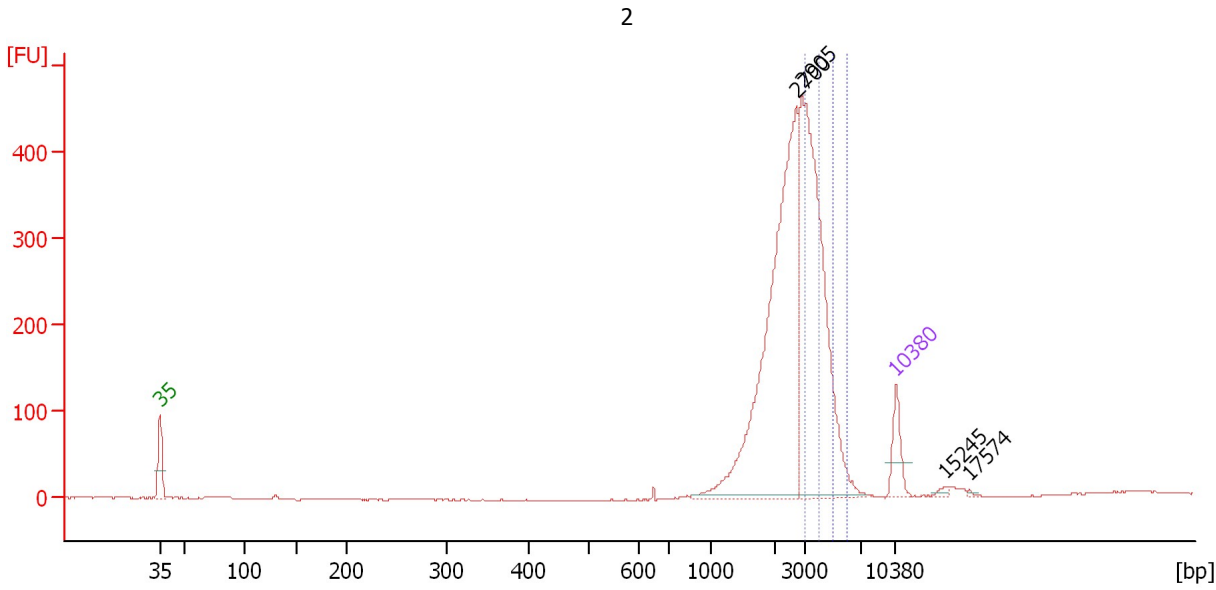
**Region table for sample 2 : 1**

| From [bp] | To [bp] | Average Size [bp] | Conc. [pg/μl] | Corr. Area | Molarity [pmol/l] | Co % of lor Total | Size distribution in CV [%] |
|-----------|---------|-------------------|---------------|------------|-------------------|-------------------|-----------------------------|
| 3,000     | 4,000   | 3,450             | 599.43        | 990.3      | 263.2             | 20                | 8.7                         |
| 5,000     | 6,000   | 5,374             | 232.34        | 378.5      | 65.5              | 7                 | 5.5                         |

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-07-02\2019-07-02\_002.xad

Created: 7/2/2019 4:52:36 PM  
 Modified: 7/2/2019 5:35:27 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : 2**

Number of peaks found: 4                      Corr. Area 1: 510.0  
 Noise: 0.3                                      Corr. Area 2: 87.4

**Peak table for sample 3 : 2**

| Peak | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations | Aligned Migration Time [s] |
|------|-----------|---------------|-------------------|--------------|----------------------------|
| 1    | 35        | 125.00        | 5,411.3           | Lower Marker | 43.00                      |
| 2    | 2,700     | 1,083.85      | 608.1             |              | 103.51                     |
| 3    | 2,905     | 914.44        | 476.9             |              | 104.12                     |
| 4    | 10,380    | 75.00         | 10.9              | Upper Marker | 113.00                     |
| 5    | 15,245    | 0.00          | 0.0               |              | 117.77                     |
| 6    | 17,574    | 0.00          | 0.0               |              | 120.05                     |

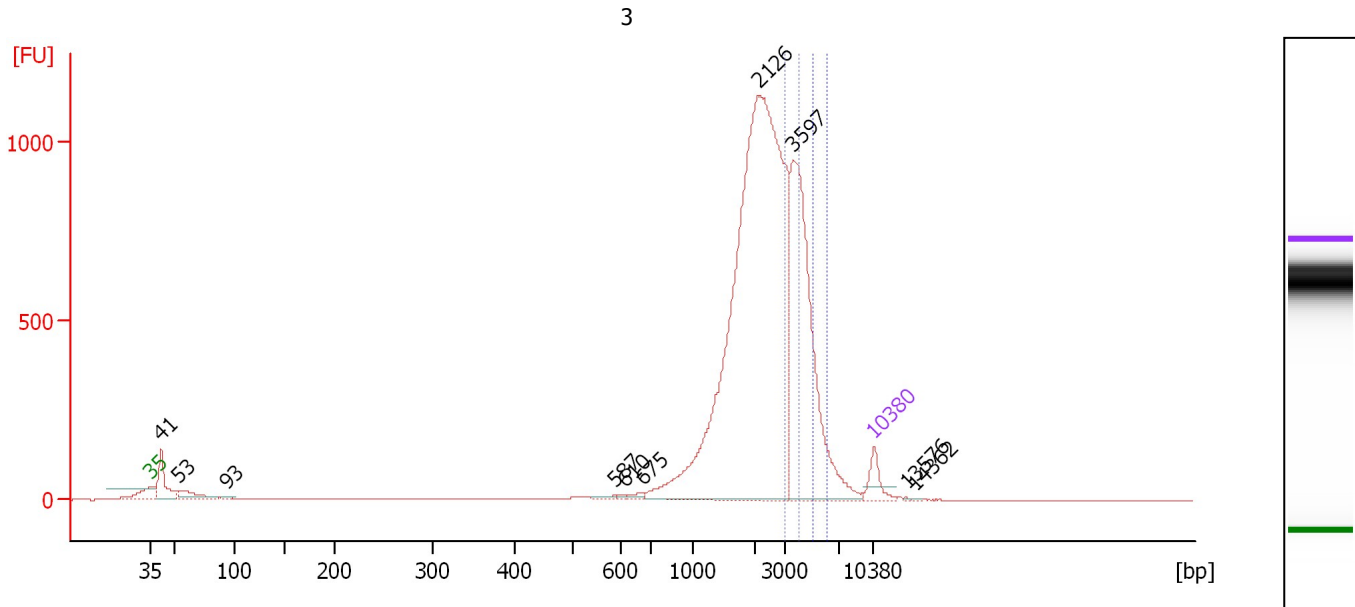
**Region table for sample 3 : 2**

| From [bp] | To [bp] | Average Size [bp] | Conc. [pg/μl] | Corr. Area | Molarity [pmol/l] | Co % of lor Total | Size distribution in CV [%] |
|-----------|---------|-------------------|---------------|------------|-------------------|-------------------|-----------------------------|
| 3,000     | 4,000   | 3,451             | 394.25        | 510.0      | 173.1             | 20                | 8.6                         |
| 5,000     | 6,000   | 5,345             | 68.52         | 87.4       | 19.4              | 3                 | 5.2                         |

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-07-02\2019-07-02\_002.xad

Created: 7/2/2019 4:52:36 PM  
 Modified: 7/2/2019 5:35:27 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : 3**

Number of peaks found: 10                      Corr. Area 1: 1,170.0  
 Noise: 0.3    Corr. Area 2: 372.1

**Peak table for sample 4 : 3**

| Peak | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations | Aligned Migration Time [s] |
|------|-----------|---------------|-------------------|--------------|----------------------------|
| 1    | 35        | 125.00        | 5,411.3           | Lower Marker | 43.00                      |
| 2    | 41        | 277.75        | 10,209.0          |              | 43.98                      |
| 3    | 53        | 129.86        | 3,698.0           |              | 45.72                      |
| 4    | 93        | 20.39         | 332.6             |              | 50.29                      |
| 5    | 587       | 14.81         | 38.2              |              | 87.89                      |
| 6    | 610       | 7.05          | 17.5              |              | 88.81                      |
| 7    | 675       | 19.80         | 44.4              |              | 90.71                      |
| 8    | 2,126     | 3,398.84      | 2,422.4           |              | 101.80                     |
| 9    | 3,597     | 1,210.19      | 509.8             |              | 105.19                     |
| 10   | 10,380    | 75.00         | 10.9              | Upper Marker | 113.00                     |
| 11   | 13,576    | 0.00          | 0.0               |              | 116.13                     |
| 12   | 14,362    | 0.00          | 0.0               |              | 116.90                     |

**Region table for sample 4 : 3**

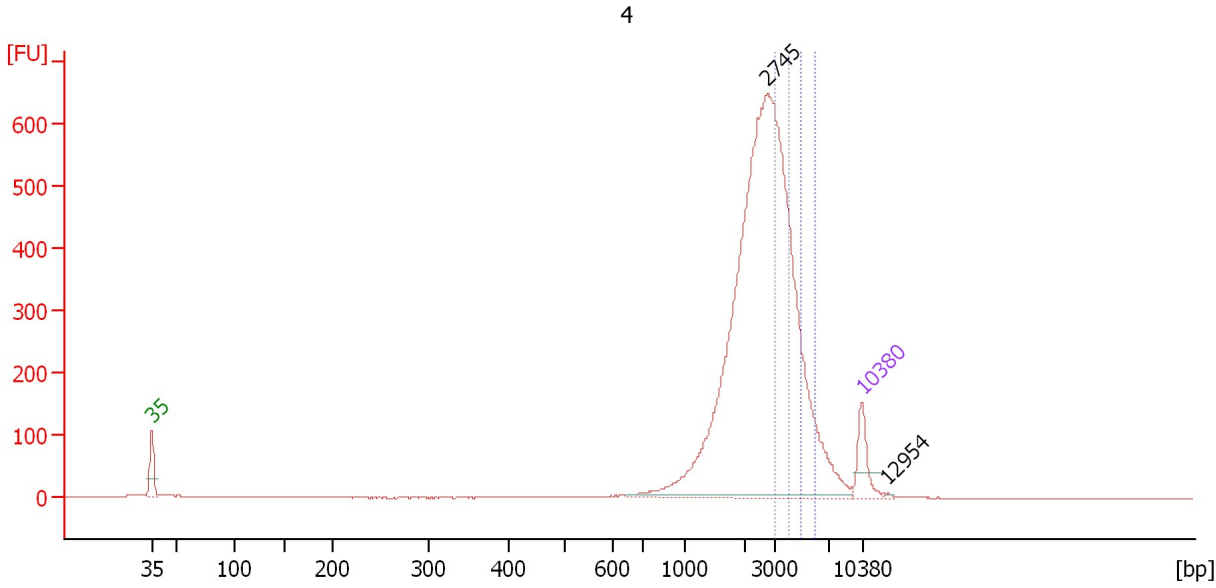
| From [bp] | To [bp] | Average Size [bp] | Conc. [pg/μl] | Corr. Area | Molarity [pmol/l] | Co % of lor Total | Size distribution in CV [%] |
|-----------|---------|-------------------|---------------|------------|-------------------|-------------------|-----------------------------|
| 3,000     | 4,000   | 3,463             | 603.81        | 1,170.0    | 264.2             | 12                | 8.4                         |
| 5,000     | 6,000   | 5,364             | 194.73        | 372.1      | 55.0              | 4                 | 5.4                         |



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-07-02\2019-07-02\_002.xad

Created: 7/2/2019 4:52:36 PM  
 Modified: 7/2/2019 5:35:27 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 5 : 4**

Number of peaks found: 2                      Corr. Area 1: 727.5  
 Noise: 0.3                                      Corr. Area 2: 218.4

**Peak table for sample 5 : 4**

| Peak | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations | Aligned Migration Time [s] |
|------|-----------|---------------|-------------------|--------------|----------------------------|
| 1    | 35        | 125.00        | 5,411.3           | Lower Marker | 43.00                      |
| 2    | 2,745     | 2,289.62      | 1,264.0           |              | 103.65                     |
| 3    | 10,380    | 75.00         | 10.9              | Upper Marker | 113.00                     |
| 4    | 12,954    | 0.00          | 0.0               |              | 115.52                     |

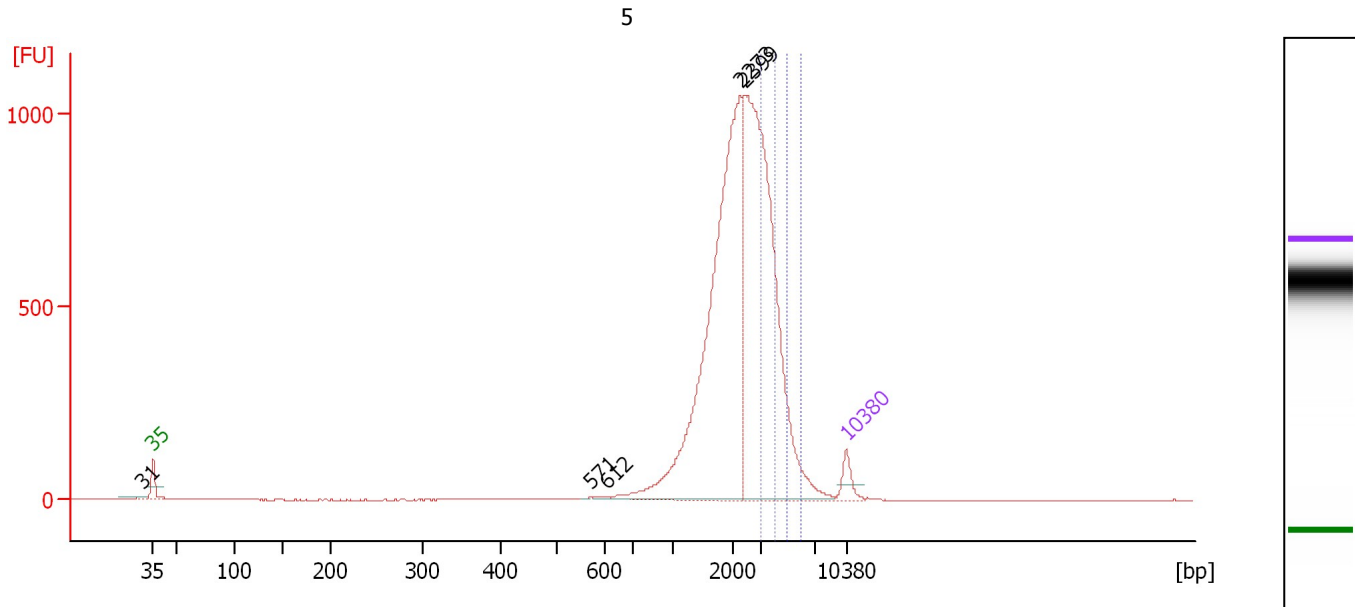
**Region table for sample 5 : 4**

| From [bp] | To [bp] | Average Size [bp] | Conc. [pg/μl] | Corr. Area | Molarity [pmol/l] | Co % of lor Total | Size distribution in CV [%] |
|-----------|---------|-------------------|---------------|------------|-------------------|-------------------|-----------------------------|
| 3,000     | 4,000   | 3,433             | 384.65        | 727.5      | 169.8             | 16                | 8.9                         |
| 5,000     | 6,000   | 5,410             | 117.14        | 218.4      | 32.8              | 5                 | 5.4                         |

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-07-02\2019-07-02\_002.xad

Created: 7/2/2019 4:52:36 PM  
 Modified: 7/2/2019 5:35:27 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 6 : 5**

Number of peaks found: 5                      Corr. Area 1: 1,053.0  
 Noise: 0.3                                      Corr. Area 2: 182.9

**Peak table for sample 6 : 5**

| Peak | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations | Aligned Migration Time [s] |
|------|-----------|---------------|-------------------|--------------|----------------------------|
| 1    | 31        | 0.00          | 0.0               |              | 41.82                      |
| 2    | 35        | 125.00        | 5,411.3           | Lower Marker | 43.00                      |
| 3    | 571       | 4.71          | 12.5              |              | 87.15                      |
| 4    | 612       | 10.66         | 26.4              |              | 88.86                      |
| 5    | 2,273     | 2,393.20      | 1,595.0           |              | 102.24                     |
| 6    | 2,399     | 2,419.90      | 1,528.2           |              | 102.62                     |
| 7    | 10,380    | 75.00         | 10.9              | Upper Marker | 113.00                     |

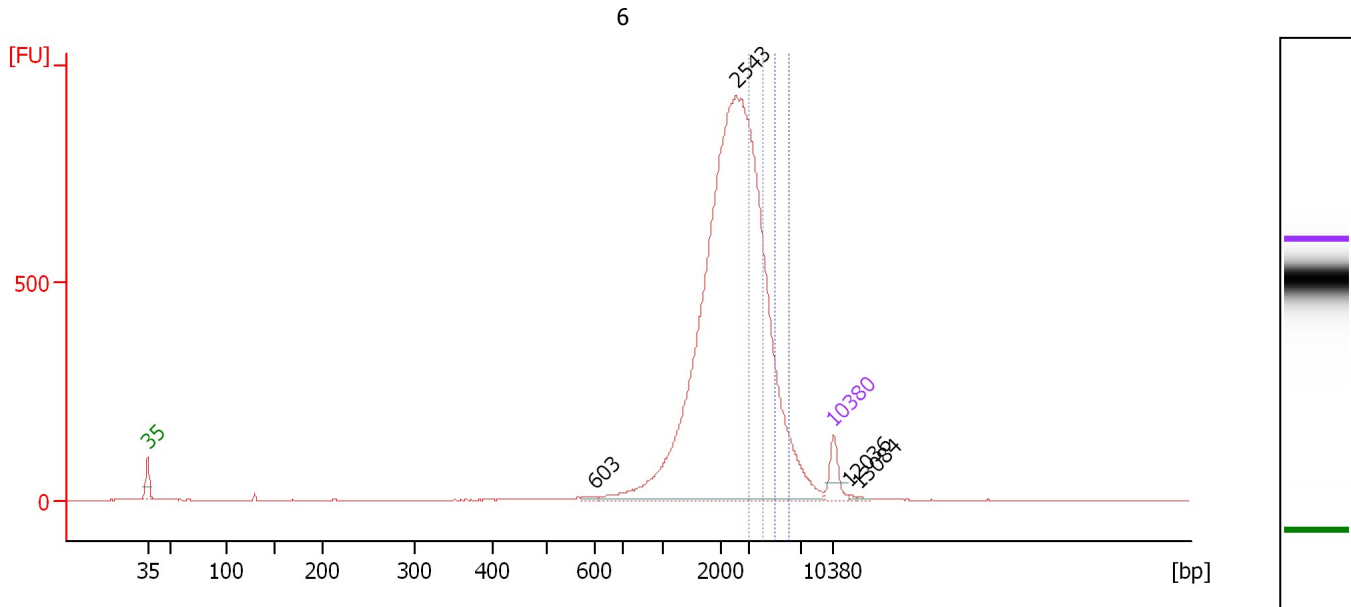
**Region table for sample 6 : 5**

| From [bp] | To [bp] | Average Size [bp] | Conc. [pg/μl] | Corr. Area | Molarity [pmol/l] | Co % of lor Total | Size distribution in CV [%] |
|-----------|---------|-------------------|---------------|------------|-------------------|-------------------|-----------------------------|
| 3,000     | 4,000   | 3,416             | 673.94        | 1,053.0    | 298.9             | 14                | 8.7                         |
| 5,000     | 6,000   | 5,366             | 118.76        | 182.9      | 33.5              | 2                 | 5.3                         |

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-07-02\2019-07-02\_002.xad

Created: 7/2/2019 4:52:36 PM  
 Modified: 7/2/2019 5:35:27 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 7 : 6**

Number of peaks found: 4                      Corr. Area 1: 970.1  
 Noise: 0.3                                      Corr. Area 2: 273.2

**Peak table for sample 7 : 6**

| Peak | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations | Aligned Migration Time [s] |
|------|-----------|---------------|-------------------|--------------|----------------------------|
| 1    | 35        | 125.00        | 5,411.3           | Lower Marker | 43.00                      |
| 2    | 603       | 8.96          | 22.5              |              | 88.60                      |
| 3    | 2,543     | 3,810.84      | 2,270.3           |              | 103.05                     |
| 4    | 10,380    | 75.00         | 10.9              | Upper Marker | 113.00                     |
| 5    | 12,036    | 0.00          | 0.0               |              | 114.62                     |
| 6    | 13,084    | 0.00          | 0.0               |              | 115.65                     |

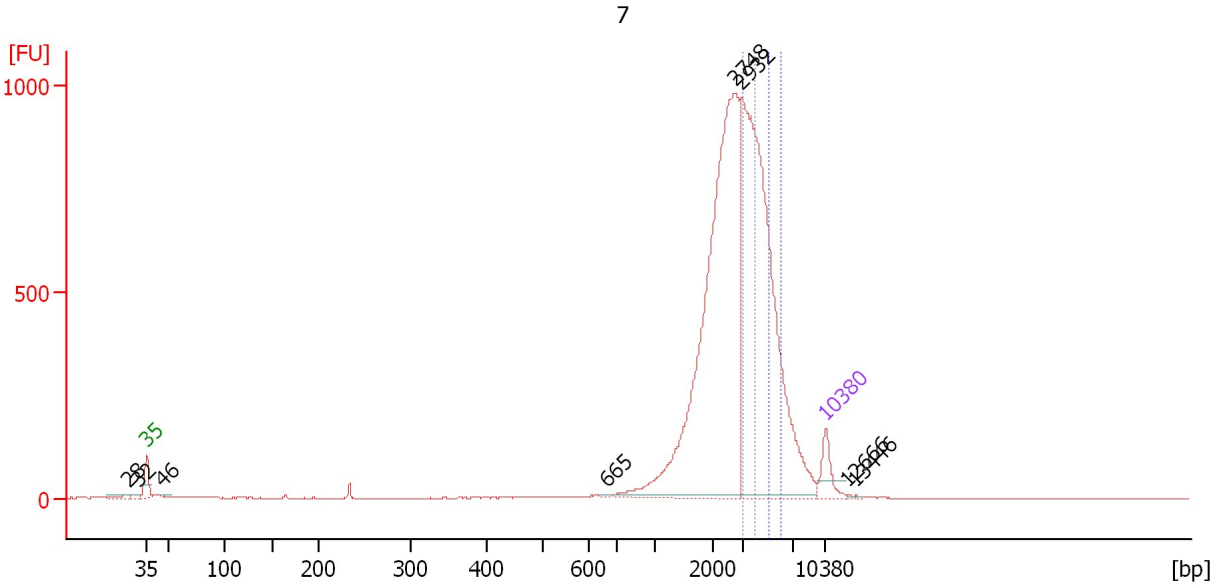
**Region table for sample 7 : 6**

| From [bp] | To [bp] | Average Size [bp] | Conc. [pg/μl] | Corr. Area | Molarity [pmol/l] | Co % of Ior Total | Size distribution in CV [%] |
|-----------|---------|-------------------|---------------|------------|-------------------|-------------------|-----------------------------|
| 3,000     | 4,000   | 3,436             | 547.26        | 970.1      | 241.3             | 14                | 8.8                         |
| 5,000     | 6,000   | 5,393             | 156.33        | 273.2      | 43.9              | 4                 | 5.4                         |

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-07-02\2019-07-02\_002.xad

Created: 7/2/2019 4:52:36 PM  
 Modified: 7/2/2019 5:35:27 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 8 : 7**

Number of peaks found: 8                      Corr. Area 1: 1,156.7  
 Noise: 0.3                                      Corr. Area 2: 606.1

**Peak table for sample 8 : 7**

| Peak | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations | Aligned Migration Time [s] |
|------|-----------|---------------|-------------------|--------------|----------------------------|
| 1    | 28        | 0.00          | 0.0               |              | 41.14                      |
| 2    | 32        | 0.00          | 0.0               |              | 42.23                      |
| 3    | 35        | 125.00        | 5,411.3           | Lower Marker | 43.00                      |
| 4    | 46        | 11.50         | 380.4             |              | 44.69                      |
| 5    | 665       | 5.34          | 12.1              |              | 90.43                      |
| 6    | 2,748     | 1,833.08      | 1,010.7           |              | 103.66                     |
| 7    | 2,932     | 1,693.75      | 875.4             |              | 104.20                     |
| 8    | 10,380    | 75.00         | 10.9              | Upper Marker | 113.00                     |
| 9    | 12,666    | 0.00          | 0.0               |              | 115.24                     |
| 10   | 13,446    | 0.00          | 0.0               |              | 116.01                     |

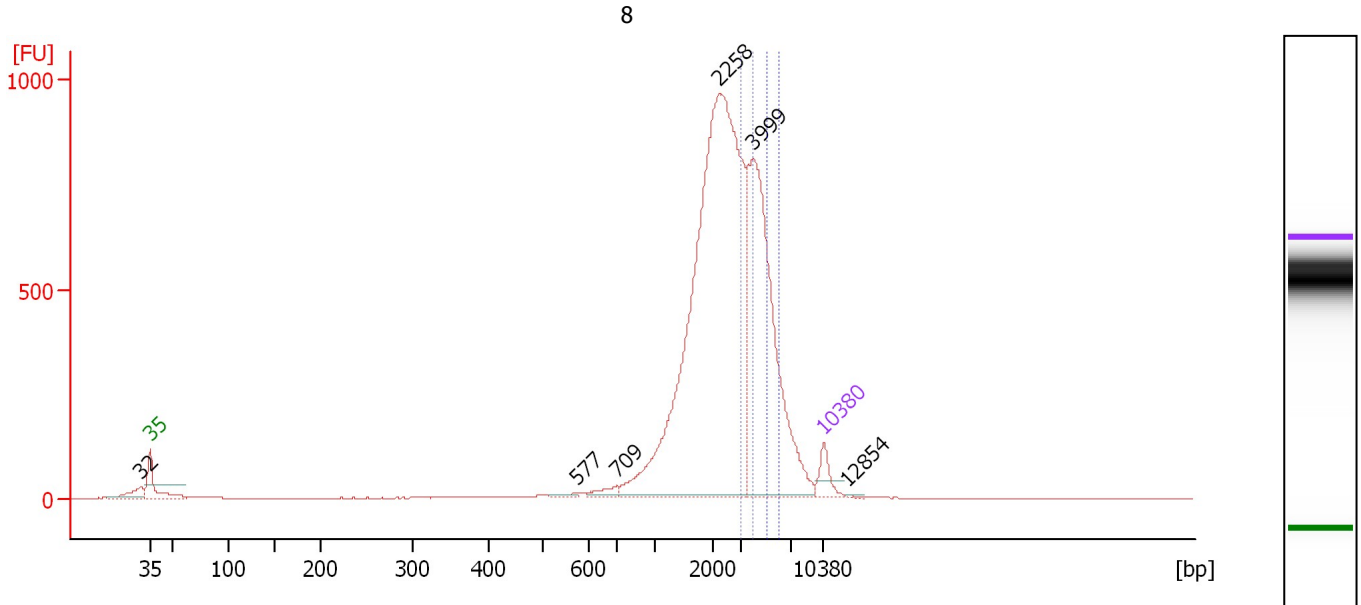
**Region table for sample 8 : 7**

| From [bp] | To [bp] | Average Size [bp] | Conc. [pg/μl] | Corr. Area | Molarity [pmol/l] | Co % of lor Total | Size distribution in CV [%] |
|-----------|---------|-------------------|---------------|------------|-------------------|-------------------|-----------------------------|
| 3,000     | 4,000   | 3,460             | 561.05        | 1,156.7    | 245.7             | 15                | 8.6                         |
| 5,000     | 6,000   | 5,396             | 298.19        | 606.1      | 83.7              | 8                 | 5.5                         |

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-07-02\2019-07-02\_002.xad

Created: 7/2/2019 4:52:36 PM  
 Modified: 7/2/2019 5:35:27 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 9 : 8**

Number of peaks found: 6                      Corr. Area 1: 1,006.2  
 Noise: 0.5                                      Corr. Area 2: 568.2

**Peak table for sample 9 : 8**

| Peak | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations | Aligned Migration Time [s] |
|------|-----------|---------------|-------------------|--------------|----------------------------|
| 1    | 32        | 0.00          | 0.0               |              | 42.01                      |
| 2    | 35        | 125.00        | 5,411.3           | Lower Marker | 43.00                      |
| 3    | 577       | 14.84         | 39.0              |              | 87.43                      |
| 4    | 709       | 45.22         | 96.7              |              | 91.56                      |
| 5    | 2,258     | 3,138.19      | 2,105.9           |              | 102.20                     |
| 6    | 3,999     | 1,412.66      | 535.3             |              | 105.72                     |
| 7    | 10,380    | 75.00         | 10.9              | Upper Marker | 113.00                     |
| 8    | 12,854    | 0.00          | 0.0               |              | 115.43                     |

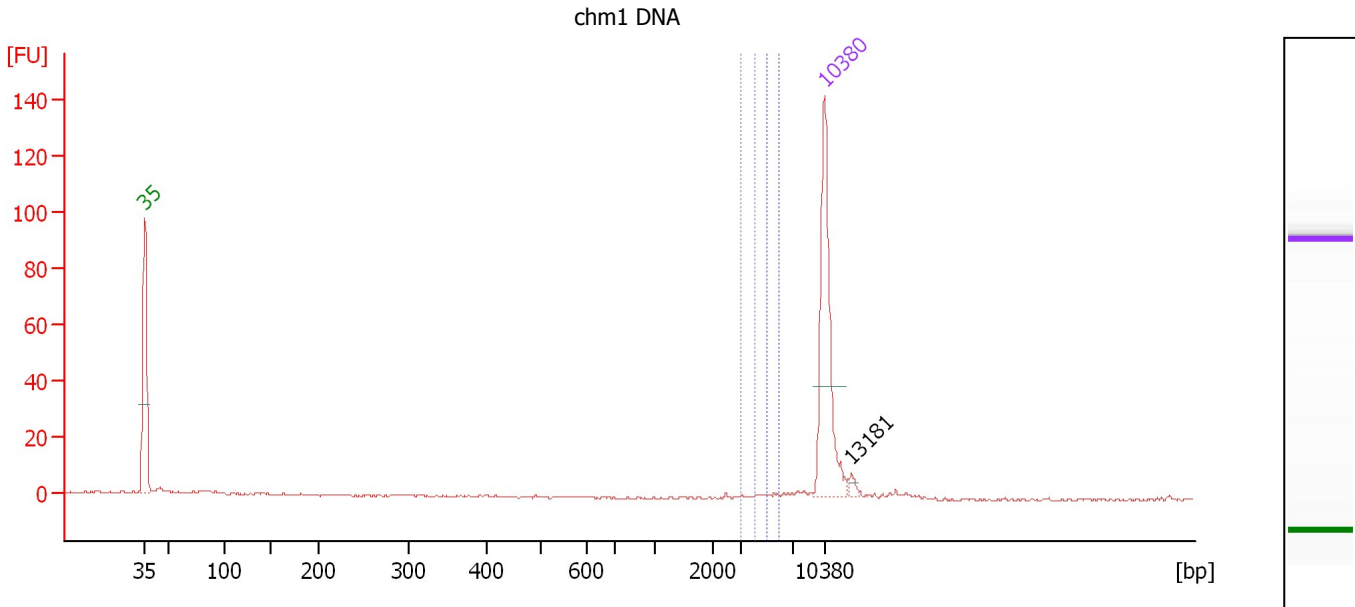
**Region table for sample 9 : 8**

| From [bp] | To [bp] | Average Size [bp] | Conc. [pg/μl] | Corr. Area | Molarity [pmol/l] | Co % of lor Total | Size distribution in CV [%] |
|-----------|---------|-------------------|---------------|------------|-------------------|-------------------|-----------------------------|
| 3,000     | 4,000   | 3,456             | 563.17        | 1,006.2    | 246.9             | 12                | 8.7                         |
| 5,000     | 6,000   | 5,398             | 322.60        | 568.2      | 90.6              | 7                 | 5.5                         |

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-07-02\2019-07-02\_002.xad

Created: 7/2/2019 4:52:36 PM  
 Modified: 7/2/2019 5:35:27 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 10 : chm1 DNA**

Number of peaks found: 1                      Corr. Area 1: 0.1  
 Noise: 0.4                                      Corr. Area 2: 0.8

**Peak table for sample 10 : chm1 DNA**

| Peak | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations | Aligned Migration Time [s] |
|------|-----------|---------------|-------------------|--------------|----------------------------|
| 1    | 35        | 125.00        | 5,411.3           | Lower Marker | 43.00                      |
| 2    | 10,380    | 75.00         | 10.9              | Upper Marker | 113.00                     |
| 3    | 13,181    | 0.00          | 0.0               |              | 115.75                     |

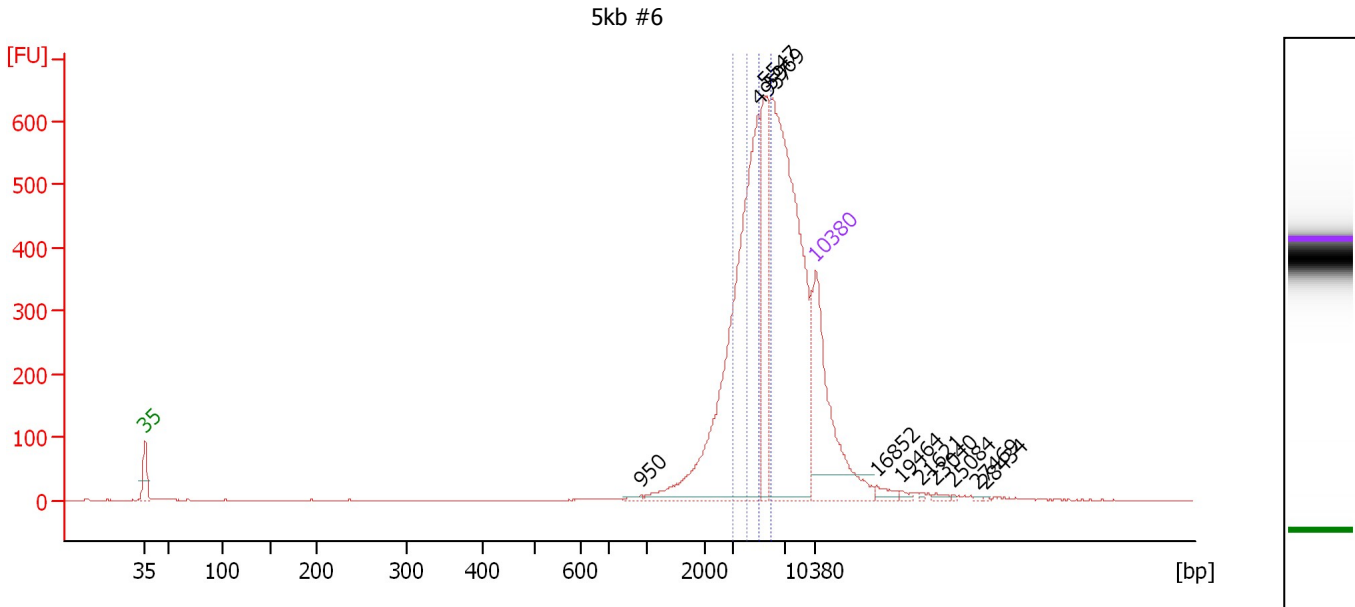
**Region table for sample 10 : chm1 DNA**

| From [bp] | To [bp] | Average Size [bp] | Conc. [pg/μl] | Corr. Area | Molarity [pmol/l] | Co % of lor Total | Size distribution in CV [%] |
|-----------|---------|-------------------|---------------|------------|-------------------|-------------------|-----------------------------|
| 3,000     | 4,000   | 3,063             | 0.06          | 0.1        | 0.0               | 0                 | 3.3                         |
| 5,000     | 6,000   | 5,531             | 0.48          | 0.8        | 0.1               | 3                 | 5.2                         |

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-07-02\2019-07-02\_002.xad

Created: 7/2/2019 4:52:36 PM  
 Modified: 7/2/2019 5:35:27 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 11 : 5kb #6**

Number of peaks found: 11                      Corr. Area 1: 470.4  
 Noise: 0.2    Corr. Area 2: 772.5

**Peak table for sample 11 : 5kb #6**

| Peak | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations | Aligned Migration Time [s] |
|------|-----------|---------------|-------------------|--------------|----------------------------|
| 1    | 35        | 125.00        | 5,411.3           | Lower Marker | 43.00                      |
| 2    | 950       | 1.54          | 2.4               |              | 94.80                      |
| 3    | 4,957     | 212.06        | 64.8              |              | 106.99                     |
| 4    | 5,547     | 64.45         | 17.6              |              | 107.77                     |
| 5    | 5,969     | 219.77        | 55.8              |              | 108.33                     |
| 6    | 10,380    | 75.00         | 10.9              | Upper Marker | 113.00                     |
| 7    | 16,852    | 0.00          | 0.0               |              | 119.34                     |
| 8    | 19,464    | 0.00          | 0.0               |              | 121.90                     |
| 9    | 21,621    | 0.00          | 0.0               |              | 124.02                     |
| 10   | 23,040    | 0.00          | 0.0               |              | 125.41                     |
| 11   | 25,084    | 0.00          | 0.0               |              | 127.41                     |
| 12   | 27,469    | 0.00          | 0.0               |              | 129.75                     |
| 13   | 28,434    | 0.00          | 0.0               |              | 130.69                     |

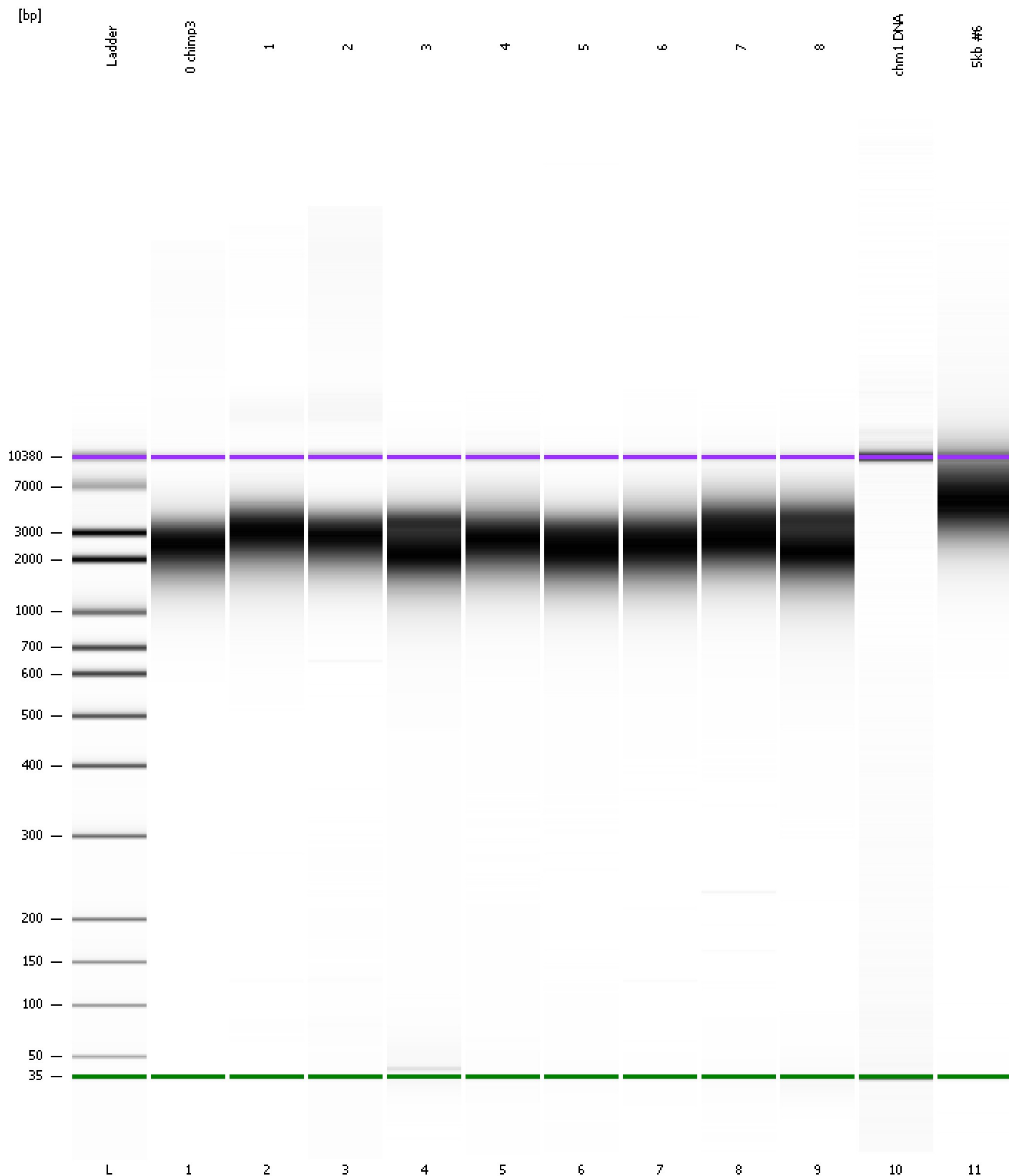
**Region table for sample 11 : 5kb #6**

| From [bp] | To [bp] | Average Size [bp] | Conc. [pg/μl] | Corr. Area | Molarity [pmol/l] | Co % of lor Total | Size distribution in CV [%] |
|-----------|---------|-------------------|---------------|------------|-------------------|-------------------|-----------------------------|
| 3,000     | 4,000   | 3,499             | 51.33         | 470.4      | 22.2              | 10                | 8.2                         |
| 5,000     | 6,000   | 5,468             | 85.52         | 772.5      | 23.7              | 17                | 5.5                         |

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\... bioanalyzer\2100 expert\data\2019-07-02\2019-07-02\_002.xad

Created: 7/2/2019 4:52:36 PM  
Modified: 7/2/2019 5:35:27 PM

**Gel Image**



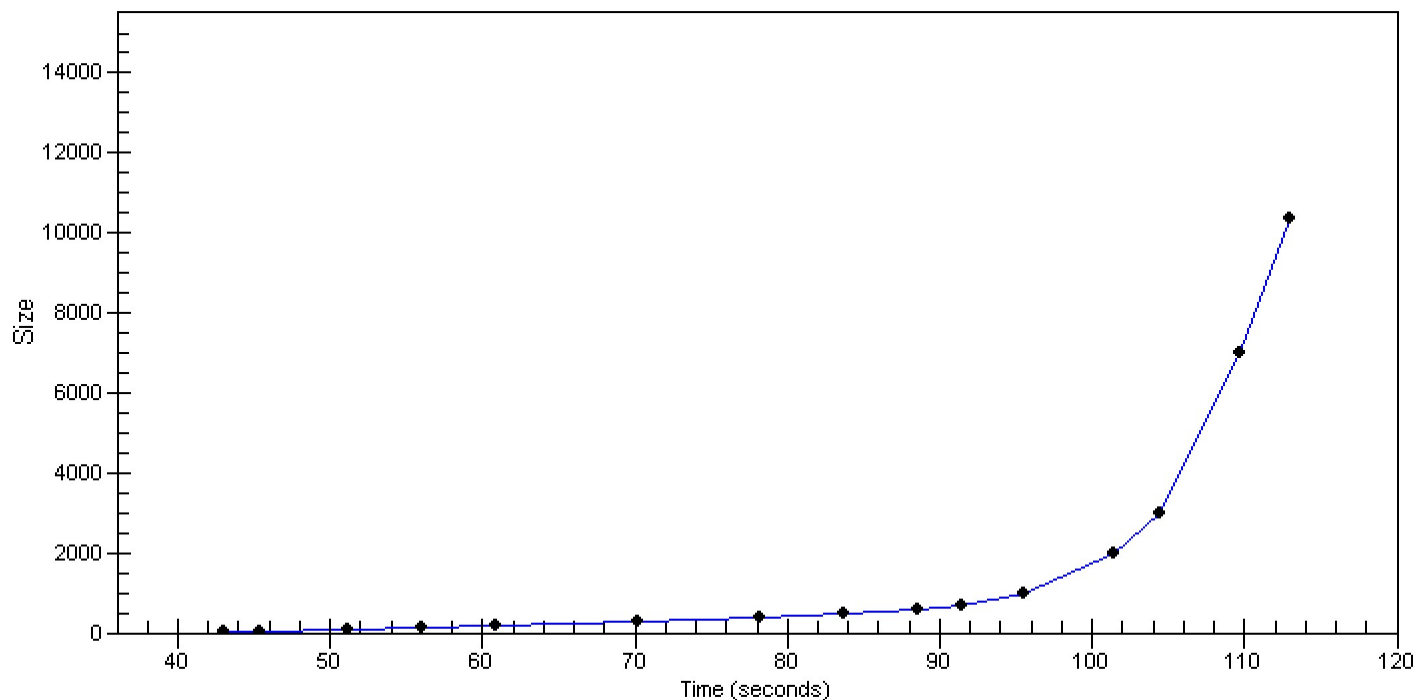


Assay Class: High Sensitivity DNA Assay  
Data Path: C:\... bioanalyzer\2100 expert\data\2019-07-02\2019-07-02\_002.xad

Created: 7/2/2019 4:52:36 PM  
Modified: 7/2/2019 5:35:27 PM

**Curves**

**Standard Curve**



Assay Class: High Sensitivity DNA Assay Created: 7/2/2019 4:52:36 PM  
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-07-02\2019-07-02\_002.xad Modified: 7/2/2019 5:35:27 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      |              | 7/2/2019 5:33:54 PM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Run started on port 1 (File: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\data\2019-07-02\2019-07-02_002.xad) |        | Instrument | Run      |              | 7/2/2019 4:52:41 PM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Product Number : G2938C  |        | Instrument | Run      |              | 7/2/2019 4:52:41 PM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Name :   |        | Instrument | Run      |              | 7/2/2019 4:52:41 PM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Vendor : Agilent Technologies  |        | Instrument | Run      |              | 7/2/2019 4:52:41 PM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Serial# : DE34903152   |        | Instrument | Run      |              | 7/2/2019 4:52:41 PM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Firmware : C.01.069  |        | Instrument | Run      |              | 7/2/2019 4:52:41 PM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Cartridge : Electrode  |        | Instrument | Run      |              | 7/2/2019 4:52:41 PM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |