

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\... bioanalyzer\2100 expert\data\2017-11-17\2017-11-17\_003.xad

Created: 11/17/2017 1:37:36 PM  
Modified: 11/17/2017 2:20:10 PM

**Electrophoresis File Run Summary**

Instrument Information:

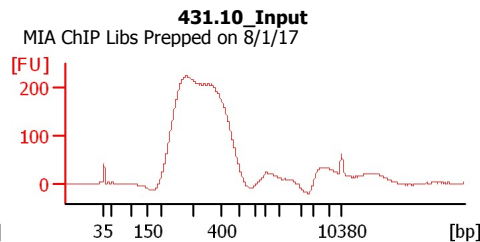
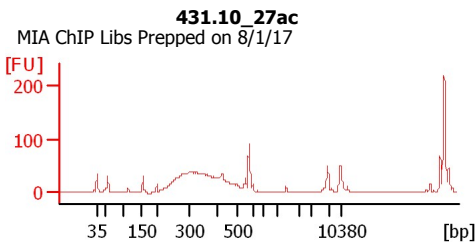
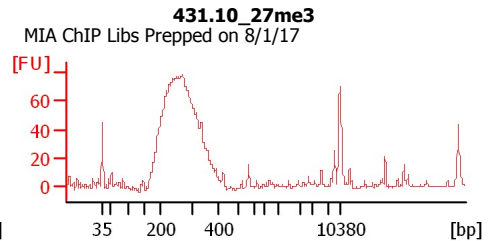
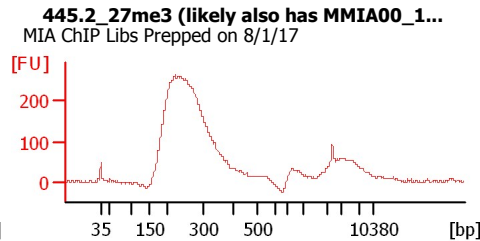
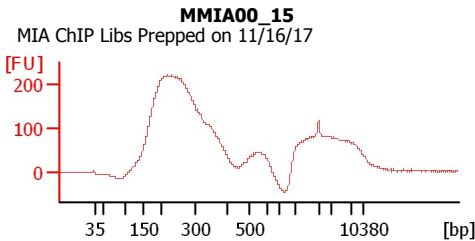
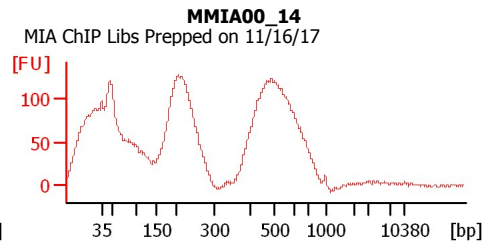
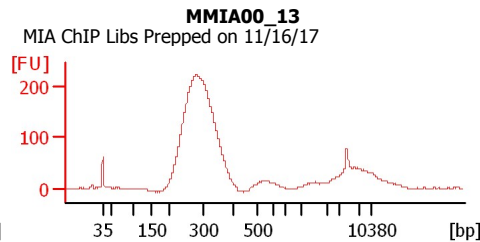
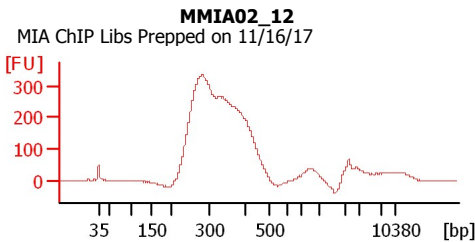
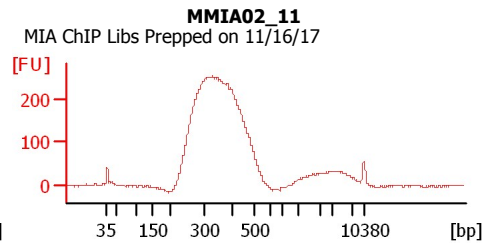
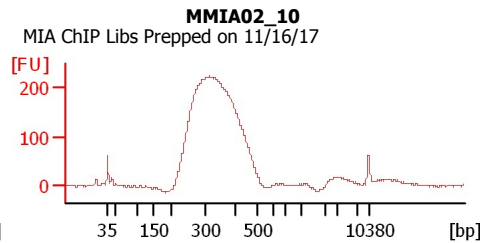
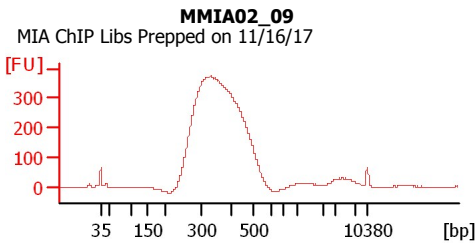
Instrument Name: DE13701086      Firmware: C.01.069  
Serial#: DE13701086      Type: G2938B

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:



Assay Class: High Sensitivity DNA Assay  
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**Electrophoresis File Run Summary (Chip Summary)**

| Sample Name   | Sample Comment                       | Rest. Digest             | Status | Observation | Result Label | Result Color |
|---|--------------------------------------|--------------------------|--------|-------------|--------------|--------------|
| MMIA02_09   | MIA ChIP Libs<br>Prepped on 11/16/17 | <input type="checkbox"/> | ✓      |             |              |              |
| MMIA02_10   | MIA ChIP Libs<br>Prepped on 11/16/17 | <input type="checkbox"/> | ✓      |             |              |              |
| MMIA02_11   | MIA ChIP Libs<br>Prepped on 11/16/17 | <input type="checkbox"/> | ✓      |             |              |              |
| MMIA02_12   | MIA ChIP Libs<br>Prepped on 11/16/17 | <input type="checkbox"/> | ✓      |             |              |              |
| MMIA00_13   | MIA ChIP Libs<br>Prepped on 11/16/17 | <input type="checkbox"/> | ✓      |             |              |              |
| MMIA00_14   | MIA ChIP Libs<br>Prepped on 11/16/17 | <input type="checkbox"/> | ✓      |             |              |              |
| MMIA00_15   | MIA ChIP Libs<br>Prepped on 11/16/17 | <input type="checkbox"/> | ✓      |             |              |              |
| 445.2_27me3 (likely also has<br>MMIA00_16 = two samples in 1<br>well) | MIA ChIP Libs<br>Prepped on 8/1/17   | <input type="checkbox"/> | ✓      |             |              |              |
| 431.10_27me3  | MIA ChIP Libs<br>Prepped on 8/1/17   | <input type="checkbox"/> | ✓      |             |              |              |
| 431.10_27ac   | MIA ChIP Libs<br>Prepped on 8/1/17   | <input type="checkbox"/> | ✓      |             |              |              |
| 431.10_Input  | MIA ChIP Libs<br>Prepped on 8/1/17   | <input type="checkbox"/> | ✓      |             |              |              |
| Ladder  |                                      | <input type="checkbox"/> | ✓      |             |              |              |

Chip Lot #

Reagent Kit Lot #

Chip Comments :

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**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

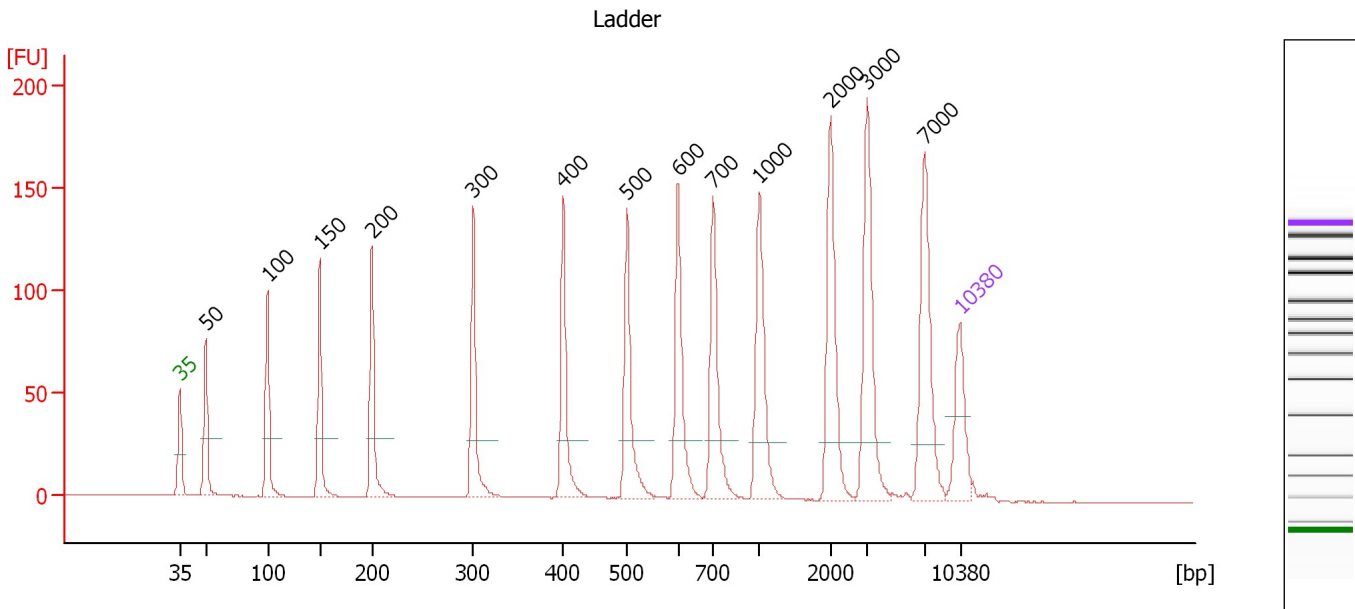
**Ladder**

| 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  |

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**Electropherogram Summary**



**Overall Results for Ladder**

Noise: 0.1

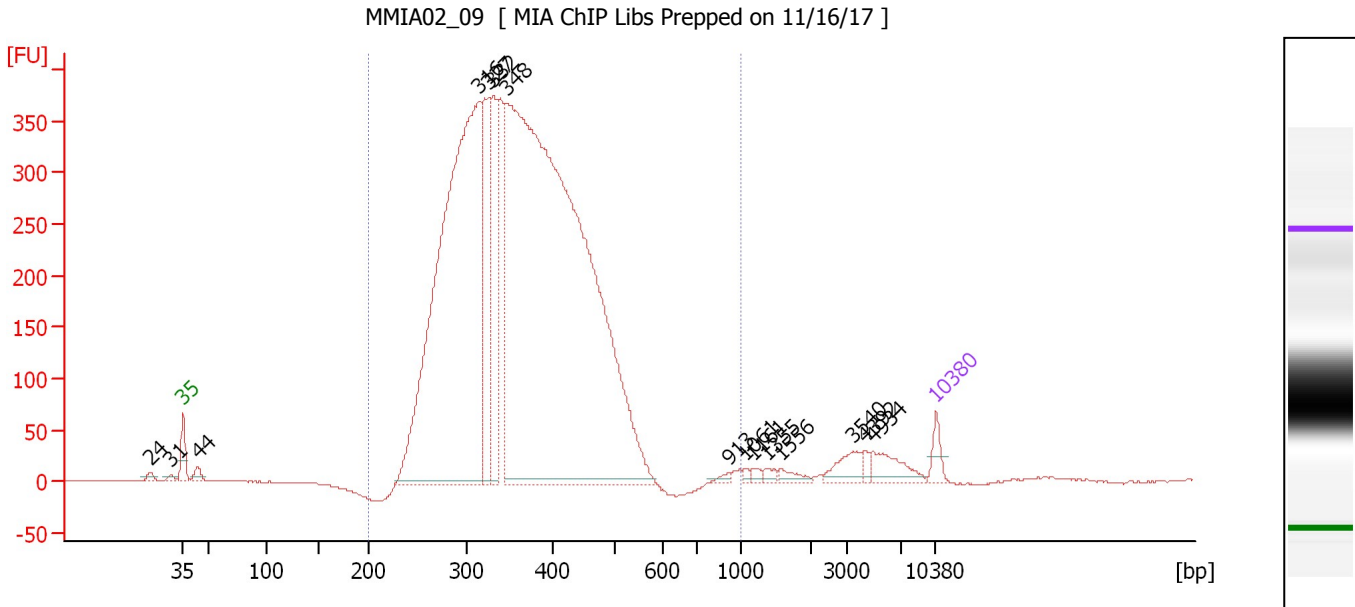
**Peak table for Ladder**

| 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  | 45.30                      |
| 3    | 100       | 150.00        | 2,272.7           | Ladder Peak  | 50.85                      |
| 4    | 150       | 150.00        | 1,515.2           | Ladder Peak  | 55.54                      |
| 5    | 200       | 150.00        | 1,136.4           | Ladder Peak  | 60.22                      |
| 6    | 300       | 150.00        | 757.6             | Ladder Peak  | 69.32                      |
| 7    | 400       | 150.00        | 568.2             | Ladder Peak  | 77.35                      |
| 8    | 500       | 150.00        | 454.5             | Ladder Peak  | 83.10                      |
| 9    | 600       | 150.00        | 378.8             | Ladder Peak  | 87.69                      |
| 10   | 700       | 150.00        | 324.7             | Ladder Peak  | 90.85                      |
| 11   | 1,000     | 150.00        | 227.3             | Ladder Peak  | 94.96                      |
| 12   | 2,000     | 150.00        | 113.6             | Ladder Peak  | 101.37                     |
| 13   | 3,000     | 150.00        | 75.8              | Ladder Peak  | 104.67                     |
| 14   | 7,000     | 150.00        | 32.5              | Ladder Peak  | 109.79                     |
| 15   | 10,380    | 75.00         | 10.9              | Upper Marker | 113.00                     |

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**Electropherogram Summary Continued ...**



**Overall Results for sample 1 : MMIA02\_09**

Number of peaks found: 15                      Corr. Area 1: 7,454.4  
 Noise: 0.2

**Peak table for sample 1 : MMIA02\_09**

| Peak | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations | Aligned Migration Time [s] |
|------|-----------|---------------|-------------------|--------------|----------------------------|
| 1    | 24        | 0.00          | 0.0               |              | 39.93                      |
| 2    | 31        | 0.00          | 0.0               |              | 41.86                      |
| 3    | 35        | 125.00        | 5,411.3           | Lower Marker | 43.00                      |
| 4    | 44        | 78.33         | 2,693.3           |              | 44.39                      |
| 5    | 316       | 5,638.62      | 27,076.6          |              | 70.56                      |
| 6    | 327       | 975.01        | 4,522.9           |              | 71.46                      |
| 7    | 332       | 784.54        | 3,578.5           |              | 71.90                      |
| 8    | 348       | 9,683.14      | 42,208.3          |              | 73.14                      |
| 9    | 913       | 25.37         | 42.1              |              | 93.76                      |
| 10   | 1,061     | 16.28         | 23.3              |              | 95.35                      |
| 11   | 1,161     | 29.65         | 38.7              |              | 96.00                      |
| 12   | 1,355     | 30.42         | 34.0              |              | 97.24                      |
| 13   | 1,556     | 49.18         | 47.9              |              | 98.52                      |
| 14   | 3,540     | 125.07        | 53.5              |              | 105.37                     |
| 15   | 4,392     | 29.41         | 10.1              |              | 106.46                     |
| 16   | 4,934     | 150.95        | 46.4              |              | 107.15                     |
| 17   | 10,380    | 75.00         | 10.9              | Upper Marker | 113.00                     |

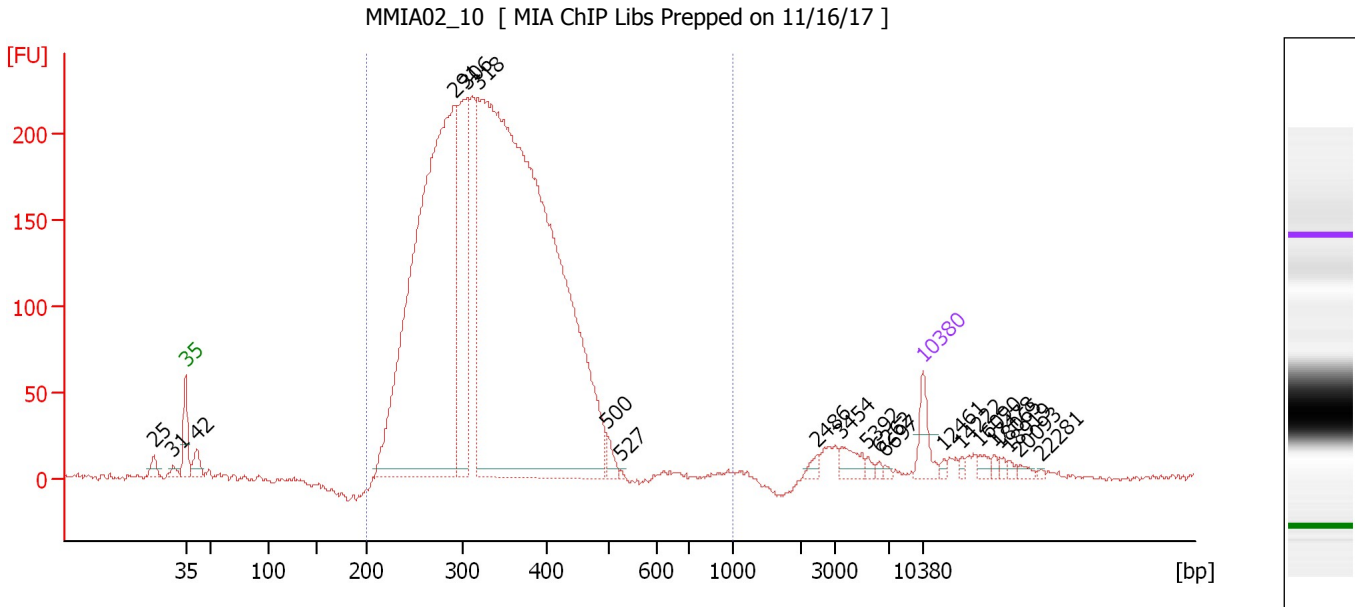
**Region table for sample 1 : MMIA02\_09**

| From [bp] | To [bp] | Average Size [bp] | Corr. Area | Molarity [pmol/l] | Co Conc. lor [pg/μl] | % of Total | Size distribution in CV [%] |
|-----------|---------|-------------------|------------|-------------------|----------------------|------------|-----------------------------|
| 200       | 1,000   | 366               | 7,454.4    | 74,306.2          | 17,024.89            | 96         | 20.6                        |

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**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : MMIA02\_10**

Number of peaks found: 21                      Corr. Area 1: 4,419.4  
 Noise: 1.7

**Peak table for sample 2 : MMIA02\_10**

| Peak | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations | Aligned Migration Time [s] |
|------|-----------|---------------|-------------------|--------------|----------------------------|
| 1    | 25        | 0.00          | 0.0               |              | 40.01                      |
| 2    | 31        | 0.00          | 0.0               |              | 41.84                      |
| 3    | 35        | 125.00        | 5,411.3           | Lower Marker | 43.00                      |
| 4    | 42        | 85.50         | 3,088.6           |              | 44.06                      |
| 5    | 291       | 3,195.23      | 16,629.0          |              | 68.51                      |
| 6    | 306       | 721.64        | 3,576.5           |              | 69.78                      |
| 7    | 318       | 5,464.19      | 26,009.6          |              | 70.79                      |
| 8    | 500       | 37.54         | 113.8             |              | 83.09                      |
| 9    | 527       | 4.33          | 12.4              |              | 84.35                      |
| 10   | 2,486     | 18.56         | 11.3              |              | 102.98                     |
| 11   | 3,454     | 52.04         | 22.8              |              | 105.26                     |
| 12   | 5,392     | 12.72         | 3.6               |              | 107.74                     |
| 13   | 6,262     | 7.79          | 1.9               |              | 108.85                     |
| 14   | 6,697     | 6.94          | 1.6               |              | 109.41                     |
| 15   | 10,380    | 75.00         | 10.9              | Upper Marker | 113.00                     |
| 16   | 12,461    | 0.00          | 0.0               |              | 114.97                     |
| 17   | 14,222    | 0.00          | 0.0               |              | 116.64                     |
| 18   | 16,090    | 0.00          | 0.0               |              | 118.42                     |
| 19   | 17,478    | 0.00          | 0.0               |              | 119.73                     |
| 20   | 18,065    | 0.00          | 0.0               |              | 120.29                     |
| 21   | 18,919    | 0.00          | 0.0               |              | 121.10                     |
| 22   | 20,093    | 0.00          | 0.0               |              | 122.21                     |
| 23   | 22,281    | 0.00          | 0.0               |              | 124.29                     |

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**Electropherogram Summary Continued ...**

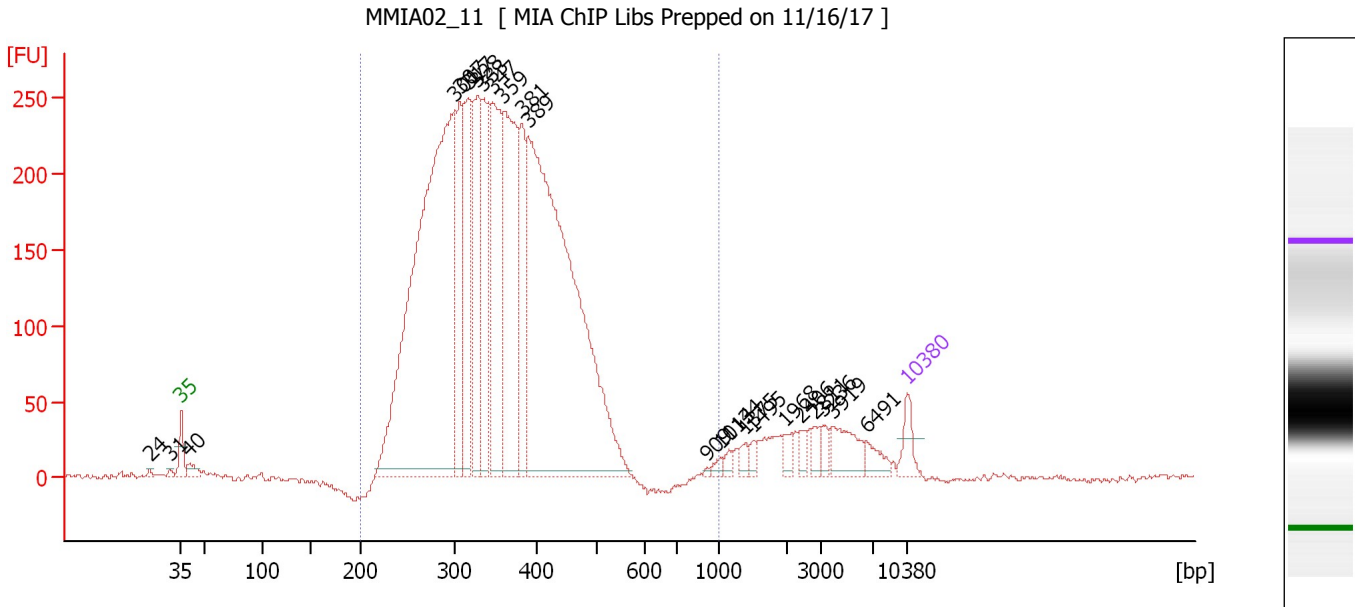
... Region table for sample 2 : MMIA02\_10

| From [bp] | To [bp] | Average Size [bp] | Corr. Area | Molarity [pmol/l] | Co Conc. lor [pg/μl] | % of Total | Size distribution in CV [%] |
|-----------|---------|-------------------|------------|-------------------|----------------------|------------|-----------------------------|
| 200       | 1,000   | 337               | 4,419.4    | 45,019.7          | 9,498.76             | 95         | 20.4                        |

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**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : MMIA02\_11**

Number of peaks found: 23                      Corr. Area 1: 5,198.3  
 Noise: 1.2

**Peak table for sample 3 : MMIA02\_11**

| Peak | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations | Aligned Migration Time [s] |
|------|-----------|---------------|-------------------|--------------|----------------------------|
| 1    | 24        | 0.00          | 0.0               |              | 39.97                      |
| 2    | 31        | 0.00          | 0.0               |              | 41.92                      |
| 3    | 35        | 125.00        | 5,411.3           | Lower Marker | 43.00                      |
| 4    | 40        | 66.53         | 2,517.8           |              | 43.77                      |
| 5    | 301       | 3,484.22      | 17,546.7          |              | 69.39                      |
| 6    | 307       | 576.50        | 2,842.8           |              | 69.90                      |
| 7    | 317       | 654.06        | 3,127.6           |              | 70.67                      |
| 8    | 328       | 719.87        | 3,321.6           |              | 71.60                      |
| 9    | 333       | 511.84        | 2,325.4           |              | 72.01                      |
| 10   | 347       | 748.77        | 3,270.1           |              | 73.09                      |
| 11   | 359       | 1,060.46      | 4,474.6           |              | 74.07                      |
| 12   | 381       | 488.63        | 1,940.7           |              | 75.87                      |
| 13   | 389       | 3,175.77      | 12,364.5          |              | 76.48                      |
| 14   | 909       | 7.20          | 12.0              |              | 93.71                      |
| 15   | 1,014     | 23.20         | 34.7              |              | 95.05                      |
| 16   | 1,134     | 23.50         | 31.4              |              | 95.82                      |
| 17   | 1,375     | 34.68         | 38.2              |              | 97.36                      |
| 18   | 1,495     | 29.78         | 30.2              |              | 98.14                      |
| 19   | 1,968     | 42.28         | 32.5              |              | 101.17                     |
| 20   | 2,406     | 37.63         | 23.7              |              | 102.71                     |
| 21   | 2,811     | 42.57         | 22.9              |              | 104.05                     |
| 22   | 3,236     | 39.86         | 18.7              |              | 104.98                     |
| 23   | 3,919     | 139.88        | 54.1              |              | 105.85                     |
| 24   | 6,491     | 64.20         | 15.0              |              | 109.14                     |
| 25   | 10,380    | 75.00         | 10.9              | Upper Marker | 113.00                     |



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**Electropherogram Summary Continued ...**

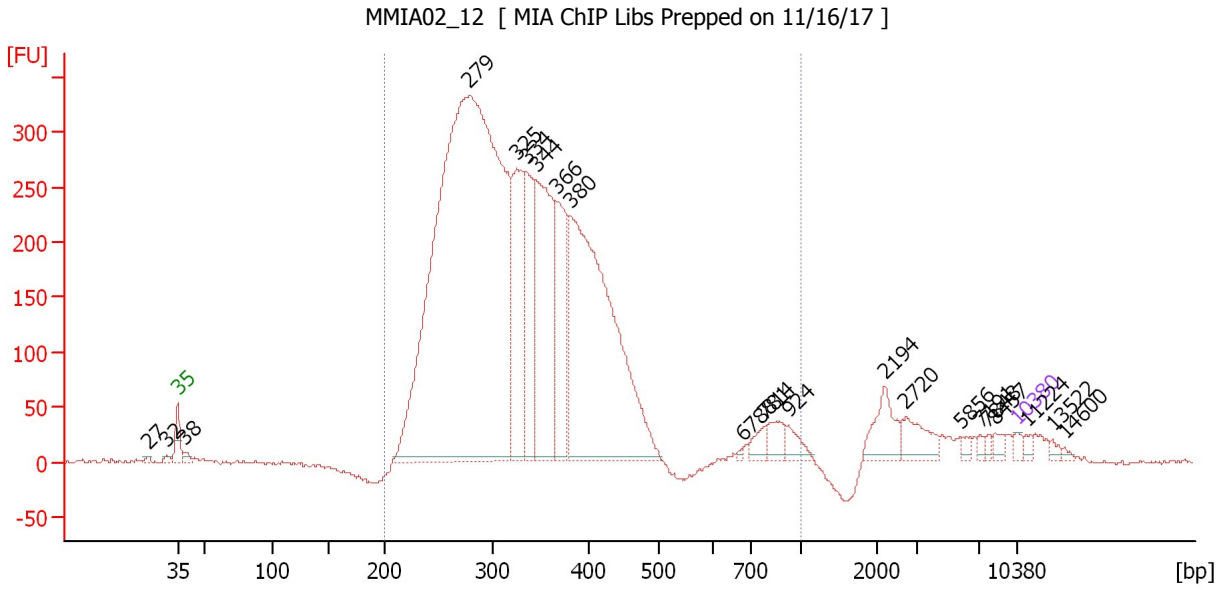
... Region table for sample 3 : MMIA02\_11

| From [bp] | To [bp] | Average Size [bp] | Corr. Area | Molarity [pmol/l] | Co Conc. lor [pg/μl] | % of Total | Size distribution in CV [%] |
|-----------|---------|-------------------|------------|-------------------|----------------------|------------|-----------------------------|
| 200       | 1,000   | 355               | 5,198.3    | 52,724.7          | 11,672.69            | 93         | 21.4                        |

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**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : MMIA02\_12**

Number of peaks found: 22                      Corr. Area 1: 6,740.9  
 Noise: 1.7

**Peak table for sample 4 : MMIA02\_12**


| Peak | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations | Aligned Migration Time [s] |
|------|-----------|---------------|-------------------|--------------|----------------------------|
| 1    | 27        | 0.00          | 0.0               |              | 40.60                      |
| 2    | 32        | 0.00          | 0.0               |              | 42.16                      |
| 3    | 35        | 125.00        | 5,411.3           | Lower Marker | 43.00                      |
| 4    | 38        | 106.71        | 4,201.2           |              | 43.53                      |
| 5    | 279       | 21,512.99     | 116,994.0         |              | 67.37                      |
| 6    | 325       | 2,484.07      | 11,579.1          |              | 71.33                      |
| 7    | 334       | 1,696.28      | 7,684.6           |              | 72.09                      |
| 8    | 344       | 3,423.81      | 15,062.2          |              | 72.89                      |
| 9    | 366       | 1,894.10      | 7,841.4           |              | 74.62                      |
| 10   | 380       | 7,419.01      | 29,552.4          |              | 75.78                      |
| 11   | 678       | 34.62         | 77.4              |              | 90.14                      |
| 12   | 781       | 209.57        | 406.3             |              | 91.96                      |
| 13   | 814       | 297.88        | 554.5             |              | 92.41                      |
| 14   | 924       | 230.28        | 377.5             |              | 93.92                      |
| 15   | 2,194     | 511.58        | 353.2             |              | 102.02                     |
| 16   | 2,720     | 406.24        | 226.3             |              | 103.75                     |
| 17   | 5,856     | 73.42         | 19.0              |              | 108.33                     |
| 18   | 7,191     | 53.31         | 11.2              |              | 109.98                     |
| 19   | 7,848     | 50.48         | 9.7               |              | 110.60                     |
| 20   | 8,457     | 102.14        | 18.3              |              | 111.18                     |
| 21   | 10,380    | 75.00         | 10.9              | Upper Marker | 113.00                     |
| 22   | 11,224    | 0.00          | 0.0               |              | 113.80                     |
| 23   | 13,522    | 0.00          | 0.0               |              | 115.98                     |
| 24   | 14,600    | 0.00          | 0.0               |              | 117.00                     |

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**Electropherogram Summary Continued ...**

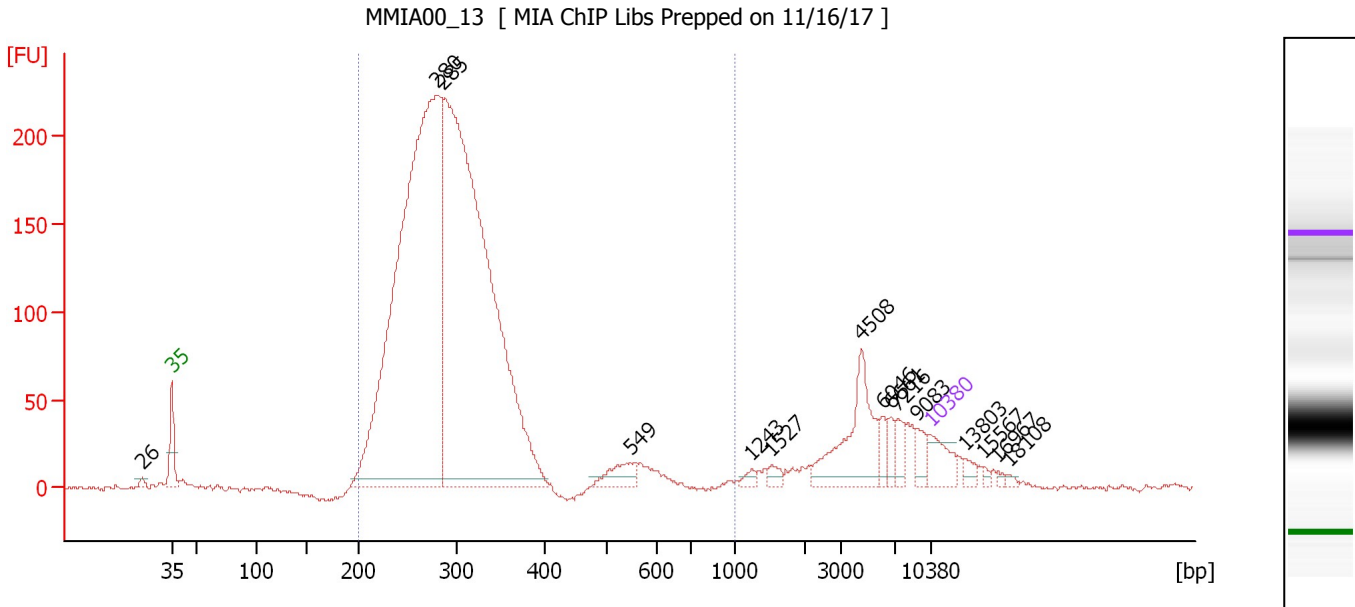
... Region table for sample 4 : MMIA02\_12

| From [bp] | To [bp] | Average Size [bp] | Corr. Area | Molarity [pmol/l] | Co Conc. lor [pg/μl]  | % of Total | Size distribution in CV [%] |
|-----------|---------|-------------------|------------|-------------------|---|------------|-----------------------------|
| 200       | 1,000   | 343               | 6,740.9    | 190,256.6         |  39,590.58 | 93         | 31.8                        |

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**Electropherogram Summary Continued ...**



**Overall Results for sample 5 : MMIA00\_13**

Number of peaks found: 15                      Corr. Area 1: 3,261.7  
 Noise: 1.3

**Peak table for sample 5 : MMIA00\_13**

| Peak | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations | Aligned Migration Time [s] |
|------|-----------|---------------|-------------------|--------------|----------------------------|
| 1    | 26        | 0.00          | 0.0               |              | 40.29                      |
| 2    | 35        | 125.00        | 5,411.3           | Lower Marker | 43.00                      |
| 3    | 280       | 3,183.03      | 17,224.2          |              | 67.50                      |
| 4    | 285       | 3,374.81      | 17,915.8          |              | 67.99                      |
| 5    | 549       | 80.20         | 221.3             |              | 85.35                      |
| 6    | 1,243     | 17.23         | 21.0              |              | 96.52                      |
| 7    | 1,527     | 21.50         | 21.3              |              | 98.34                      |
| 8    | 4,508     | 256.29        | 86.1              |              | 106.61                     |
| 9    | 6,046     | 41.55         | 10.4              |              | 108.57                     |
| 10   | 6,661     | 36.15         | 8.2               |              | 109.36                     |
| 11   | 7,216     | 41.40         | 8.7               |              | 110.00                     |
| 12   | 9,083     | 36.71         | 6.1               |              | 111.77                     |
| 13   | 10,380    | 75.00         | 10.9              | Upper Marker | 113.00                     |
| 14   | 13,803    | 0.00          | 0.0               |              | 116.25                     |
| 15   | 15,567    | 0.00          | 0.0               |              | 117.92                     |
| 16   | 16,967    | 0.00          | 0.0               |              | 119.25                     |
| 17   | 18,108    | 0.00          | 0.0               |              | 120.33                     |

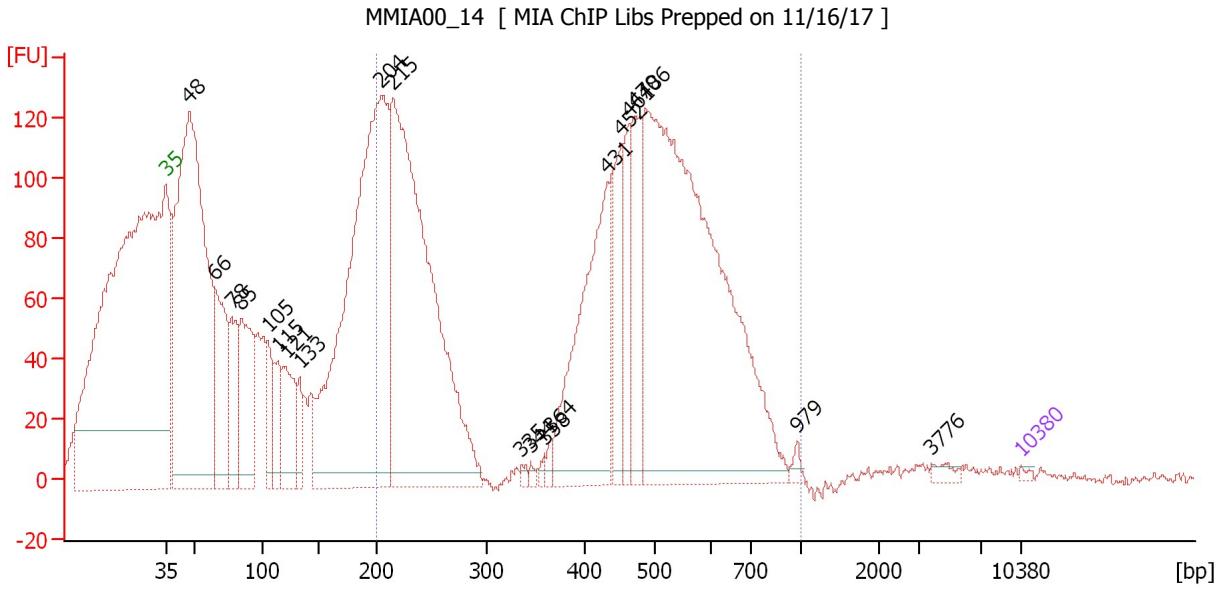
**Region table for sample 5 : MMIA00\_13**

| From [bp] | To [bp] | Average Size [bp] | Corr. Area | Molarity [pmol/l] | Co Conc. [pg/μl] | % of Total | Size distribution in CV [%] |
|-----------|---------|-------------------|------------|-------------------|------------------|------------|-----------------------------|
| 200       | 1,000   | 301               | 3,261.7    | 35,271.5          | 6,693.23         | 86         | 23.8                        |

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-11-17\2017-11-17\_003.xad

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**Electropherogram Summary Continued ...**



**Overall Results for sample 6 : MMIA00\_14**

Number of peaks found: 21                      Corr. Area 1: 2,634.4  
 Noise: 3.0

**Peak table for sample 6 : MMIA00\_14**

| 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    | 48        | 32,065.83     | 1,021,944.5       |              | 44.92                      |
| 3    | 66        | 6,050.40      | 139,166.3         |              | 47.06                      |
| 4    | 78        | 3,887.14      | 75,449.5          |              | 48.41                      |
| 5    | 85        | 5,658.35      | 100,699.7         |              | 49.20                      |
| 6    | 105       | 2,214.30      | 31,888.8          |              | 51.34                      |
| 7    | 115       | 1,937.74      | 25,638.0          |              | 52.21                      |
| 8    | 121       | 3,373.58      | 42,232.7          |              | 52.82                      |
| 9    | 133       | 1,395.47      | 15,881.8          |              | 53.95                      |
| 10   | 204       | 27,926.74     | 206,944.5         |              | 60.63                      |
| 11   | 215       | 26,673.40     | 188,369.5         |              | 61.55                      |
| 12   | 335       | 170.32        | 770.9             |              | 72.11                      |
| 13   | 344       | 172.43        | 759.5             |              | 72.85                      |
| 14   | 358       | 188.37        | 797.0             |              | 73.99                      |
| 15   | 364       | 302.90        | 1,260.6           |              | 74.47                      |
| 16   | 431       | 9,242.15      | 32,489.2          |              | 79.13                      |
| 17   | 452       | 2,990.39      | 10,034.4          |              | 80.31                      |
| 18   | 461       | 2,348.79      | 7,725.4           |              | 80.84                      |
| 19   | 470       | 3,614.49      | 11,657.7          |              | 81.36                      |
| 20   | 486       | 27,943.99     | 87,165.0          |              | 82.28                      |
| 21   | 979       | 224.90        | 348.1             |              | 94.67                      |
| 22   | 3,776     | 227.60        | 91.3              |              | 105.67                     |
| 23   | 10,380    | 75.00         | 10.9              | Upper Marker | 113.00                     |

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\... bioanalyzer\2100 expert\data\2017-11-17\2017-11-17\_003.xad

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**Electropherogram Summary Continued ...**

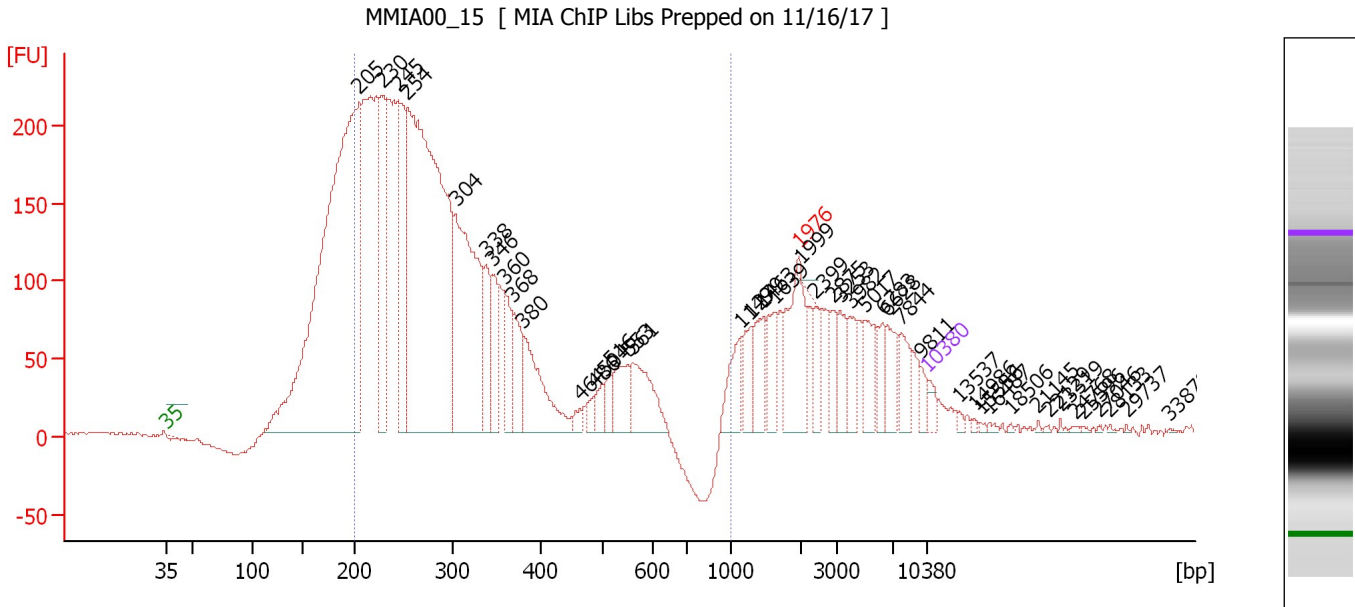
... Region table for sample 6 : MMIA00\_14

| From [bp] | To [bp] | Average Size [bp] | Corr. Area | Molarity [pmol/l] | Co Conc. lor [pg/μl] | % of Total | Size distribution in CV [%] |
|-----------|---------|-------------------|------------|-------------------|----------------------|------------|-----------------------------|
| 200       | 1,000   | 436               | 2,634.4    | 304,612.5         | 67,617.58            | 58         | 35.4                        |

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-11-17\2017-11-17\_003.xad

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**Electropherogram Summary Continued ...**



**Setpoint Deviations for sample 7 : MMIA00\_15**

Height Threshold [FU] : 0

**Overall Results for sample 7 : MMIA00\_15**

Number of peaks found: 44      Corr. Area 1: 4,327.8  
 Noise: 1.0

**Peak table for sample 7 : MMIA00\_15**

| Pea k | 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     | 205       | 7,721.05      | 56,939.4          |               | 60.72                      |
| 3     | 230       | 1,346.84      | 8,881.9           |               | 62.93                      |
| 4     | 245       | 1,267.18      | 7,840.6           |               | 64.30                      |
| 5     | 254       | 6,089.88      | 36,319.4          |               | 65.14                      |
| 6     | 304       | 2,368.71      | 11,821.0          |               | 69.61                      |
| 7     | 338       | 466.22        | 2,087.3           |               | 72.40                      |
| 8     | 346       | 405.18        | 1,775.6           |               | 72.99                      |
| 9     | 360       | 332.64        | 1,400.8           |               | 74.12                      |
| 10    | 368       | 426.95        | 1,759.2           |               | 74.76                      |
| 11    | 380       | 788.42        | 3,144.1           |               | 75.74                      |
| 12    | 464       | 68.85         | 224.7             |               | 81.04                      |
| 13    | 486       | 69.78         | 217.3             |               | 82.32                      |
| 14    | 504       | 134.14        | 402.9             |               | 83.30                      |
| 15    | 516       | 123.66        | 362.9             |               | 83.84                      |
| 16    | 553       | 325.02        | 891.2             |               | 85.51                      |
| 17    | 561       | 474.46        | 1,281.2           |               | 85.90                      |
| 18    | 1,149     | 294.61        | 388.5             |               | 95.92                      |
| 19    | 1,279     | 231.25        | 273.9             |               | 96.75                      |
| 20    | 1,463     | 282.27        | 292.3             |               | 97.93                      |
| 21    | 1,639     | 237.85        | 219.9             |               | 99.06                      |
| 22    | 1,976     | 640.16        | 490.9             | excluded peak | 101.22                     |

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-11-17\2017-11-17\_003.xad

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**Electropherogram Summary Continued ...**

**... Peak table for sample 7 : MMIA00\_15**

| Peak | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations | Aligned Migration Time [s] |
|------|-----------|---------------|-------------------|--------------|----------------------------|
| 23   | 1,999     | 12.10         | 9.2               |              | 101.37                     |
| 24   | 2,399     | 195.66        | 123.6             |              | 102.69                     |
| 25   | 2,875     | 187.49        | 98.8              |              | 104.26                     |
| 26   | 3,253     | 204.39        | 95.2              |              | 105.00                     |
| 27   | 3,982     | 208.86        | 79.5              |              | 105.93                     |
| 28   | 5,017     | 272.11        | 82.2              |              | 107.26                     |
| 29   | 6,283     | 162.50        | 39.2              |              | 108.88                     |
| 30   | 6,628     | 222.73        | 50.9              |              | 109.32                     |
| 31   | 7,844     | 198.41        | 38.3              |              | 110.59                     |
| 32   | 9,811     | 74.01         | 11.4              |              | 112.46                     |
| 33   | 10,380    | 75.00         | 10.9              | Upper Marker | 113.00                     |
| 34   | 13,537    | 0.00          | 0.0               |              | 115.99                     |
| 35   | 14,986    | 0.00          | 0.0               |              | 117.37                     |
| 36   | 15,556    | 0.00          | 0.0               |              | 117.91                     |
| 37   | 16,487    | 0.00          | 0.0               |              | 118.79                     |
| 38   | 18,506    | 0.00          | 0.0               |              | 120.71                     |
| 39   | 21,145    | 0.00          | 0.0               |              | 123.21                     |
| 40   | 22,129    | 0.00          | 0.0               |              | 124.14                     |
| 41   | 23,319    | 0.00          | 0.0               |              | 125.27                     |
| 42   | 24,768    | 0.00          | 0.0               |              | 126.65                     |
| 43   | 25,596    | 0.00          | 0.0               |              | 127.43                     |
| 44   | 27,046    | 0.00          | 0.0               |              | 128.81                     |
| 45   | 28,133    | 0.00          | 0.0               |              | 129.84                     |
| 46   | 29,737    | 0.00          | 0.0               |              | 131.36                     |
| 47   | 33,878    | 0.00          | 0.0               |              | 135.29                     |

**Region table for sample 7 : MMIA00\_15**

| From [bp] | To [bp] | Average Size [bp] | Corr. Area | Molarity [pmol/l] | Co Conc. lor [pg/μl] | % of Total | Size distribution in CV [%] |
|-----------|---------|-------------------|------------|-------------------|----------------------|------------|-----------------------------|
| 200       | 1,000   | 306               | 4,327.8    | 115,590.6         | 20,996.01            | 63         | 36.2                        |






Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-11-17\2017-11-17\_003.xad


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**Electropherogram Summary Continued ...**

**... Peak table for sample 8 : 445.2 27me3 (likely also has MMIA00 16 = two samples in 1 well)**

| Peak | Size [bp]  | Conc. [pg/μl] | Molarity [pmol/l] | Observations | Aligned Migration Time [s] |
|------|--|---------------|-------------------|--------------|----------------------------|
| 23   | 3,171  | 0.00          | 0.0               |              | 104.89                     |
| 24   | 3,626  | 0.00          | 0.0               |              | 105.48                     |
| 25   | 4,612  | 0.00          | 0.0               |              | 106.74                     |
| 26   | 5,522  | 0.00          | 0.0               |              | 107.90                     |
| 27   | 7,258  | 0.00          | 0.0               |              | 110.04                     |
| 28   | 9,254  | 0.00          | 0.0               |              | 111.93                     |
| 29   |  10,380 | 75.00         | 10.9              | Upper Marker | 113.00                     |
| 30   | 11,864   | 0.00          | 0.0               |              | 114.41                     |
| 31   | 13,297   | 0.00          | 0.0               |              | 115.77                     |
| 32   | 14,526   | 0.00          | 0.0               |              | 116.93                     |
| 33   | 15,242   | 0.00          | 0.0               |              | 117.61                     |
| 34   | 16,010   | 0.00          | 0.0               |              | 118.34                     |
| 35   | 16,675   | 0.00          | 0.0               |              | 118.97                     |
| 36   | 17,546   | 0.00          | 0.0               |              | 119.80                     |
| 37   | 19,900   | 0.00          | 0.0               |              | 122.03                     |
| 38   | 20,668   | 0.00          | 0.0               |              | 122.76                     |
| 39   | 22,254   | 0.00          | 0.0               |              | 124.26                     |
| 40   | 25,223   | 0.00          | 0.0               |              | 127.08                     |
| 41   | 27,014   | 0.00          | 0.0               |              | 128.78                     |
| 42   | 27,577   | 0.00          | 0.0               |              | 129.31                     |
| 43   | 28,652   | 0.00          | 0.0               |              | 130.33                     |
| 44   | 30,341   | 0.00          | 0.0               |              | 131.93                     |
| 45   | 32,081   | 0.00          | 0.0               |              | 133.58                     |
| 46   | 33,259   | 0.00          | 0.0               |              | 134.70                     |

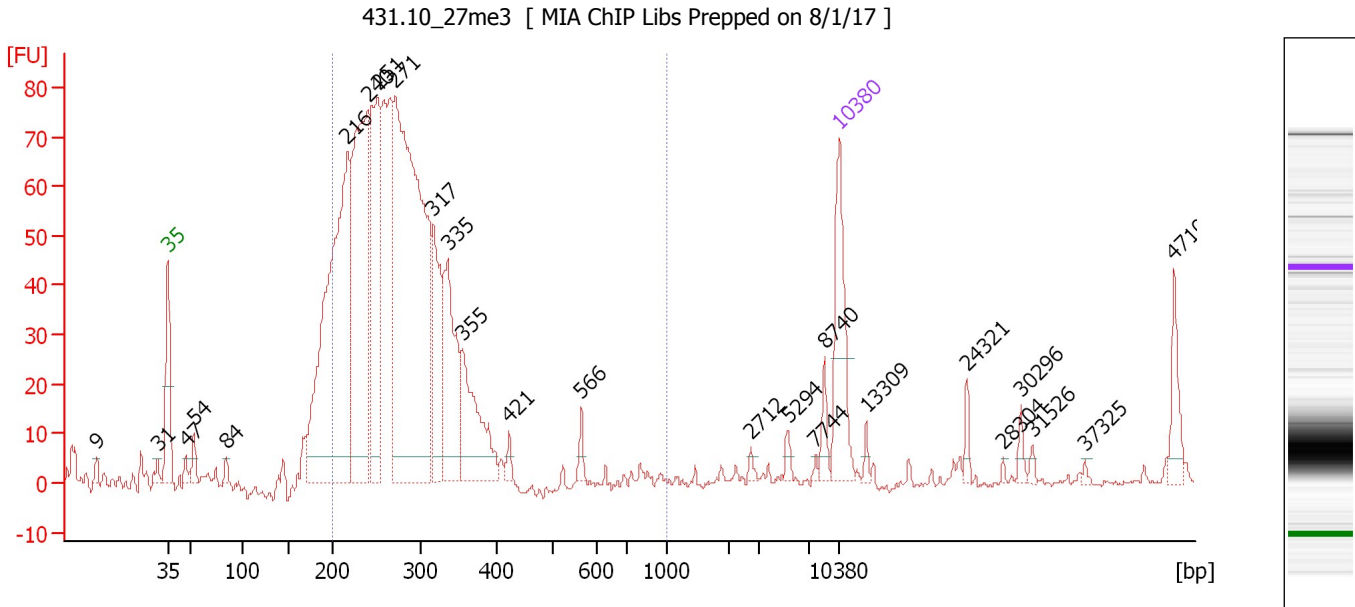
**Region table for sample 8 : 445.2 27me3 (likely also has MMIA00 16 = two samples in 1 well)**

| From [bp] | To [bp] | Average Size [bp] | Corr. Area | Molarity [pmol/l] | Co Conc. lor [pg/μl]   | % of Total | Size distribution in CV [%] |
|-----------|---------|-------------------|------------|-------------------|--|------------|-----------------------------|
| 200       | 1,000   | 297               | 4,682.9    | 0.0               |  0.00 | 76         | 40.6                        |

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-11-17\2017-11-17\_003.xad

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**Electropherogram Summary Continued ...**



**Overall Results for sample 9 : 431.10\_27me3**

Number of peaks found: 25                      Corr. Area 1: 1,113.2  
 Noise: 0.6

**Peak table for sample 9 : 431.10\_27me3**

| Peak | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations | Aligned Migration Time [s] |
|------|-----------|---------------|-------------------|--------------|----------------------------|
| 1    | 9         | 0.00          | 0.0               |              | 35.61                      |
| 2    | 31        | 0.00          | 0.0               |              | 41.94                      |
| 3    | 35        | 125.00        | 5,411.3           | Lower Marker | 43.00                      |
| 4    | 47        | 10.74         | 346.5             |              | 44.83                      |
| 5    | 54        | 18.71         | 526.5             |              | 45.72                      |
| 6    | 84        | 8.09          | 145.3             |              | 49.11                      |
| 7    | 216       | 547.44        | 3,831.7           |              | 61.72                      |
| 8    | 240       | 368.46        | 2,329.1           |              | 63.83                      |
| 9    | 251       | 231.48        | 1,395.7           |              | 64.89                      |
| 10   | 271       | 670.63        | 3,743.0           |              | 66.72                      |
| 11   | 317       | 125.52        | 600.3             |              | 70.67                      |
| 12   | 335       | 141.48        | 639.0             |              | 72.17                      |
| 13   | 355       | 121.22        | 517.6             |              | 73.72                      |
| 14   | 421       | 8.62          | 31.0              |              | 78.56                      |
| 15   | 566       | 10.87         | 29.1              |              | 86.11                      |
| 16   | 2,712     | 3.82          | 2.1               |              | 103.72                     |
| 17   | 5,294     | 6.60          | 1.9               |              | 107.61                     |
| 18   | 7,744     | 2.36          | 0.5               |              | 110.50                     |
| 19   | 8,740     | 14.65         | 2.5               |              | 111.44                     |
| 20   | 10,380    | 75.00         | 10.9              | Upper Marker | 113.00                     |
| 21   | 13,309    | 0.00          | 0.0               |              | 115.78                     |
| 22   | 24,321    | 0.00          | 0.0               |              | 126.22                     |
| 23   | 28,304    | 0.00          | 0.0               |              | 130.00                     |
| 24   | 30,296    | 0.00          | 0.0               |              | 131.89                     |
| 25   | 31,526    | 0.00          | 0.0               |              | 133.06                     |

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-11-17\2017-11-17\_003.xad


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### Electropherogram Summary Continued ...

#### ... Peak table for sample 9 : 431.10 27me3

| Peak | Size [bp] | Conc. [pg/ $\mu$ l] | Molarity [pmol/l] | Observations | Aligned Migration Time [s] |
|------|-----------|---------------------|-------------------|--------------|----------------------------|
| 26   | 37,325    | 0.00                | 0.0               |              | 138.56                     |
| 27   | 47,107    | 0.00                | 0.0               |              | 147.83                     |

#### Region table for sample 9 : 431.10 27me3

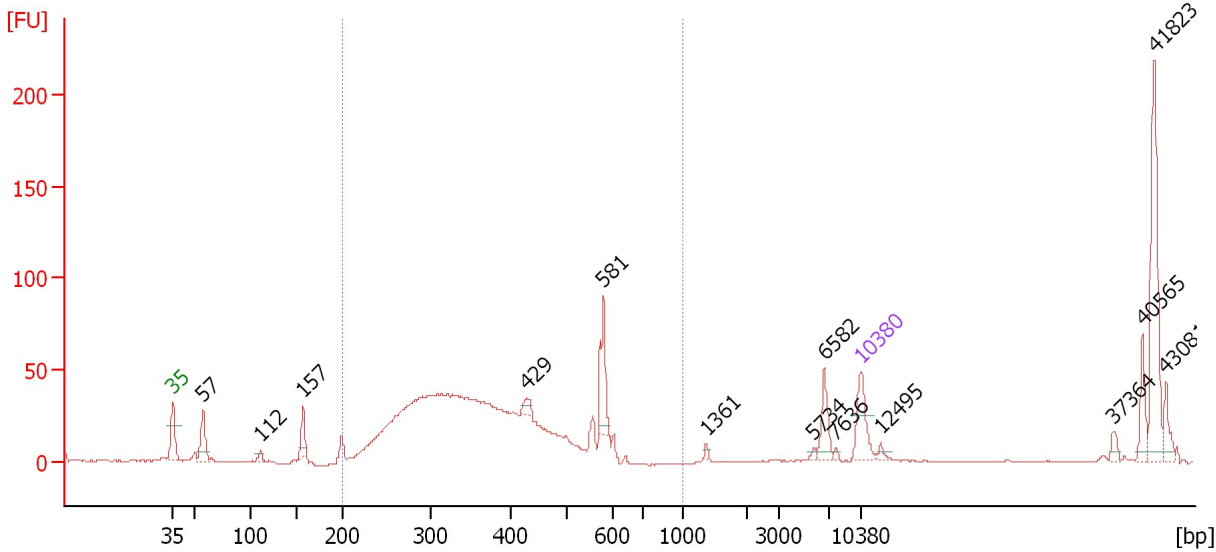
| From [bp] | To [bp] | Average Size [bp] | Corr. Area | Molarity [pmol/l] | Co Conc. lor [pg/ $\mu$ l]   | % of Total | Size distribution in CV [%] |
|-----------|---------|-------------------|------------|-------------------|--|------------|-----------------------------|
| 200       | 1,000   | 273               | 1,113.2    | 11,602.3          |  2,033.42 | 89         | 17.4                        |

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-11-17\2017-11-17\_003.xad

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**Electropherogram Summary Continued ...**

431.10\_27ac [ MIA ChIP Libs Prepped on 8/1/17 ]



**Overall Results for sample 10 : 431.10 27ac**

Number of peaks found: 14                      Corr. Area 1: 866.9  
 Noise: 0.2

**Peak table for sample 10 : 431.10 27ac**

| 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    | 57        | 104.05        | 2,758.5           |              | 46.09                      |
| 3    | 112       | 19.73         | 267.5             |              | 51.95                      |
| 4    | 157       | 65.59         | 631.4             |              | 56.23                      |
| 5    | 429       | 22.97         | 81.2              |              | 79.00                      |
| 6    | 581       | 106.49        | 277.8             |              | 86.81                      |
| 7    | 1,361     | 5.84          | 6.5               |              | 97.28                      |
| 8    | 5,734     | 6.66          | 1.8               |              | 108.17                     |
| 9    | 6,582     | 60.40         | 13.9              |              | 109.26                     |
| 10   | 7,636     | 5.23          | 1.0               |              | 110.40                     |
| 11   | 10,380    | 75.00         | 10.9              | Upper Marker | 113.00                     |
| 12   | 12,495    | 0.00          | 0.0               |              | 115.01                     |
| 13   | 37,364    | 0.00          | 0.0               |              | 138.59                     |
| 14   | 40,565    | 0.00          | 0.0               |              | 141.63                     |
| 15   | 41,823    | 0.00          | 0.0               |              | 142.82                     |
| 16   | 43,081    | 0.00          | 0.0               |              | 144.01                     |

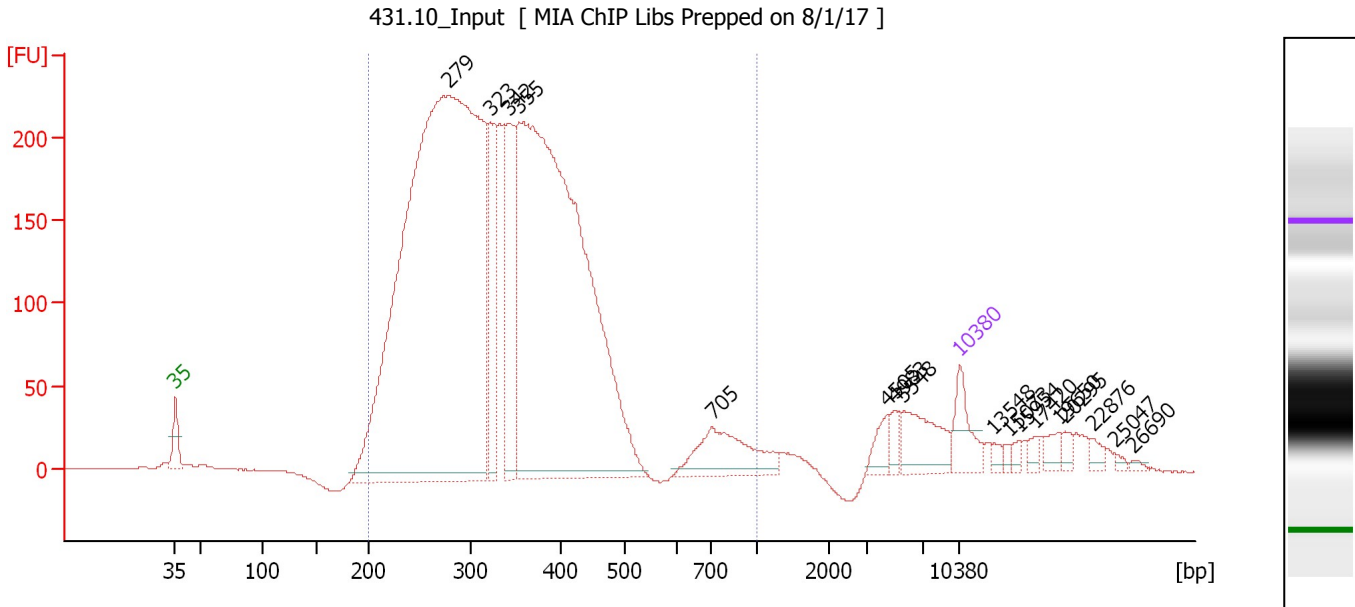
**Region table for sample 10 : 431.10 27ac**

| From [bp] | To [bp] | Average Size [bp] | Corr. Area | Molarity [pmol/l] | Co Conc. lor [pg/μl] | % of Total | Size distribution in CV [%] |
|-----------|---------|-------------------|------------|-------------------|----------------------|------------|-----------------------------|
| 200       | 1,000   | 378               | 866.9      | 9,810.9           | 2,216.92             | 73         | 27.3                        |

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-11-17\2017-11-17\_003.xad

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**Electropherogram Summary Continued ...**



**Overall Results for sample 11 : 431.10 Input**

Number of peaks found: 17                      Corr. Area 1: 5,120.1  
 Noise: 0.2

**Peak table for sample 11 : 431.10 Input**

| 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    | 279       | 3,772.63      | 20,515.8          |              | 67.37                      |
| 3    | 323       | 300.42        | 1,409.7           |              | 71.16                      |
| 4    | 342       | 389.29        | 1,723.3           |              | 72.71                      |
| 5    | 355       | 2,538.54      | 10,842.7          |              | 73.72                      |
| 6    | 705       | 207.59        | 446.4             |              | 90.91                      |
| 7    | 4,505     | 42.69         | 14.4              |              | 106.60                     |
| 8    | 4,983     | 27.89         | 8.5               |              | 107.21                     |
| 9    | 5,548     | 117.82        | 32.2              |              | 107.94                     |
| 10   | 10,380    | 75.00         | 10.9              | Upper Marker | 113.00                     |
| 11   | 13,548    | 0.00          | 0.0               |              | 116.00                     |
| 12   | 15,073    | 0.00          | 0.0               |              | 117.45                     |
| 13   | 15,954    | 0.00          | 0.0               |              | 118.29                     |
| 14   | 17,420    | 0.00          | 0.0               |              | 119.68                     |
| 15   | 19,650    | 0.00          | 0.0               |              | 121.79                     |
| 16   | 20,295    | 0.00          | 0.0               |              | 122.40                     |
| 17   | 22,876    | 0.00          | 0.0               |              | 124.85                     |
| 18   | 25,047    | 0.00          | 0.0               |              | 126.91                     |
| 19   | 26,690    | 0.00          | 0.0               |              | 128.47                     |

**Region table for sample 11 : 431.10 Input**

| From [bp] | To [bp] | Average Size [bp] | Corr. Area | Molarity [pmol/l] | Co Conc. [pg/μl] | % of Total | Size distribution in CV [%] |
|-----------|---------|-------------------|------------|-------------------|------------------|------------|-----------------------------|
| 200       | 1,000   | 343               | 5,120.1    | 33,396.7          | 6,928.33         | 92         | 29.8                        |

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\... bioanalyzer\2100 expert\data\2017-11-17\2017-11-17\_003.xad

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Modified: 11/17/2017 2:20:10 PM

**Gel Image**