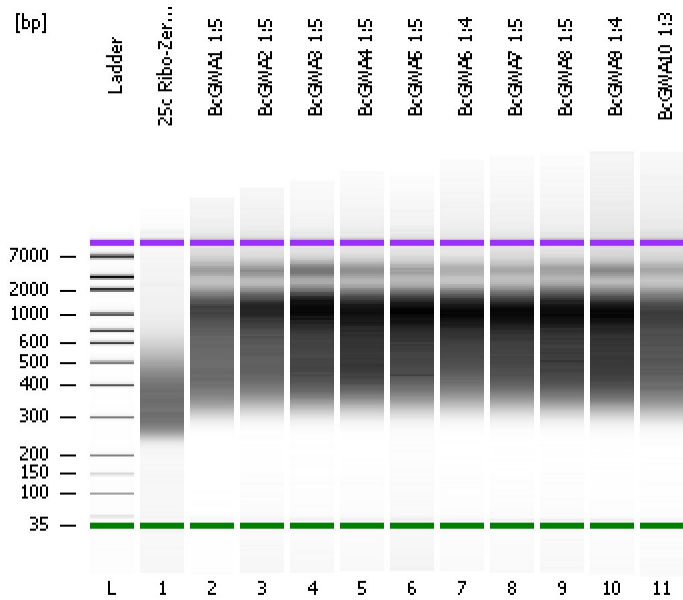


Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2014-01-15\2014-01-15\_002.xad

Created: 1/15/2014 4:17:30 PM  
Modified: 1/15/2014 4:59:50 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

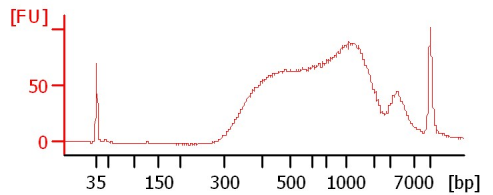
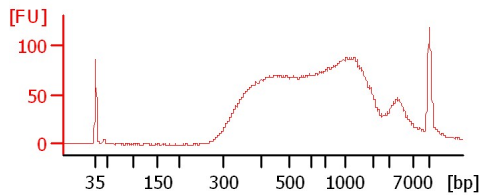
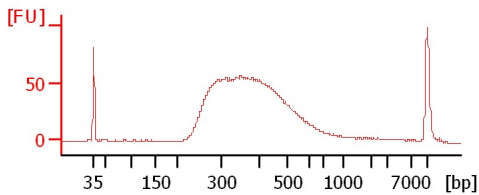
Chip Information:

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

**25c Ribo-Zero Lib 1:16**

**BcGWA1 1:5**

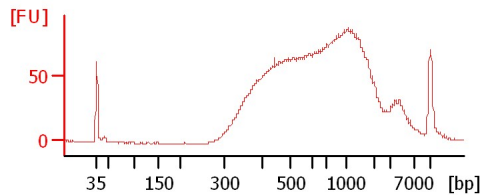
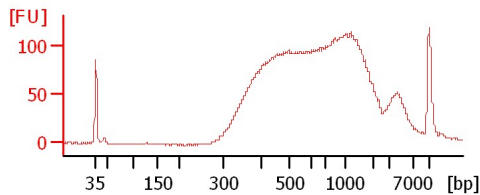
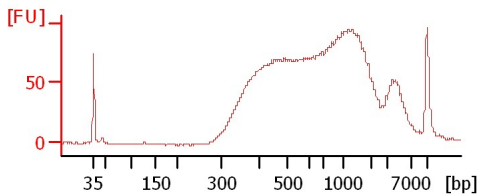
**BcGWA2 1:5**



**BcGWA3 1:5**

**BcGWA4 1:5**

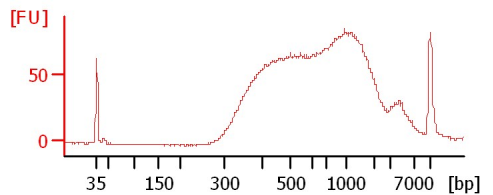
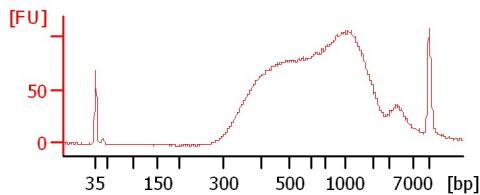
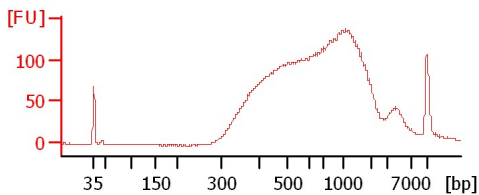
**BcGWA5 1:5**



**BcGWA6 1:4**

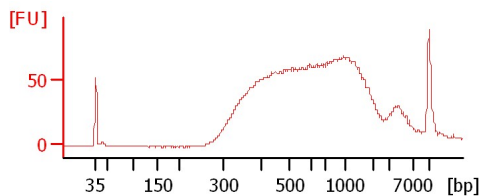
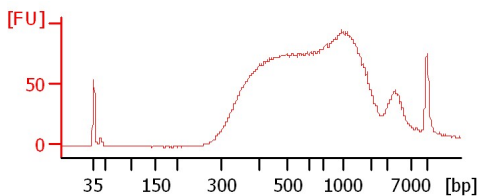
**BcGWA7 1:5**

**BcGWA8 1:5**



**BcGWA9 1:4**

**BcGWA10 1:3**



Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2014-01-15\2014-01-15\_002.xad

Created: 1/15/2014 4:17:30 PM  
Modified: 1/15/2014 4:59:50 PM

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

| Sample Name            | Sample Comment | Rest. Digest             | Status | Observation | Result Label | Result Color |
|------------------------|----------------|--------------------------|--------|-------------|--------------|--------------|
| 25c Ribo-Zero Lib 1:16 |                | <input type="checkbox"/> | ✓      |             |              |              |
| BcGWA1 1:5             |                | <input type="checkbox"/> | ✓      |             |              |              |
| BcGWA2 1:5             |                | <input type="checkbox"/> | ✓      |             |              |              |
| BcGWA3 1:5             |                | <input type="checkbox"/> | ✓      |             |              |              |
| BcGWA4 1:5             |                | <input type="checkbox"/> | ✓      |             |              |              |
| BcGWA5 1:5             |                | <input type="checkbox"/> | ✓      |             |              |              |
| BcGWA6 1:4             |                | <input type="checkbox"/> | ✓      |             |              |              |
| BcGWA7 1:5             |                | <input type="checkbox"/> | ✓      |             |              |              |
| BcGWA8 1:5             |                | <input type="checkbox"/> | ✓      |             |              |              |
| BcGWA9 1:4             |                | <input type="checkbox"/> | ✓      |             |              |              |
| BcGWA10 1:3            |                | <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\2014-01-15\2014-01-15\_002.xad

Created: 1/15/2014 4:17:30 PM  
Modified: 1/15/2014 4:59:50 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/ $\mu$ l] : 1950  
Uses Standard Area for Ladder Fragments  
Lower Marker Concentration [pg/ $\mu$ l] : 125  
Upper Marker Concentration [pg/ $\mu$ l] : 75  
Used Upper Marker for Quantitation  
Standard Curve Fit is Point to Point  
Show Data Aligned to Lower and Upper Marker

**Integrator Settings**

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

**Filter Settings**

Filter Width [s] : 0.5  
Polynomial Order : 4

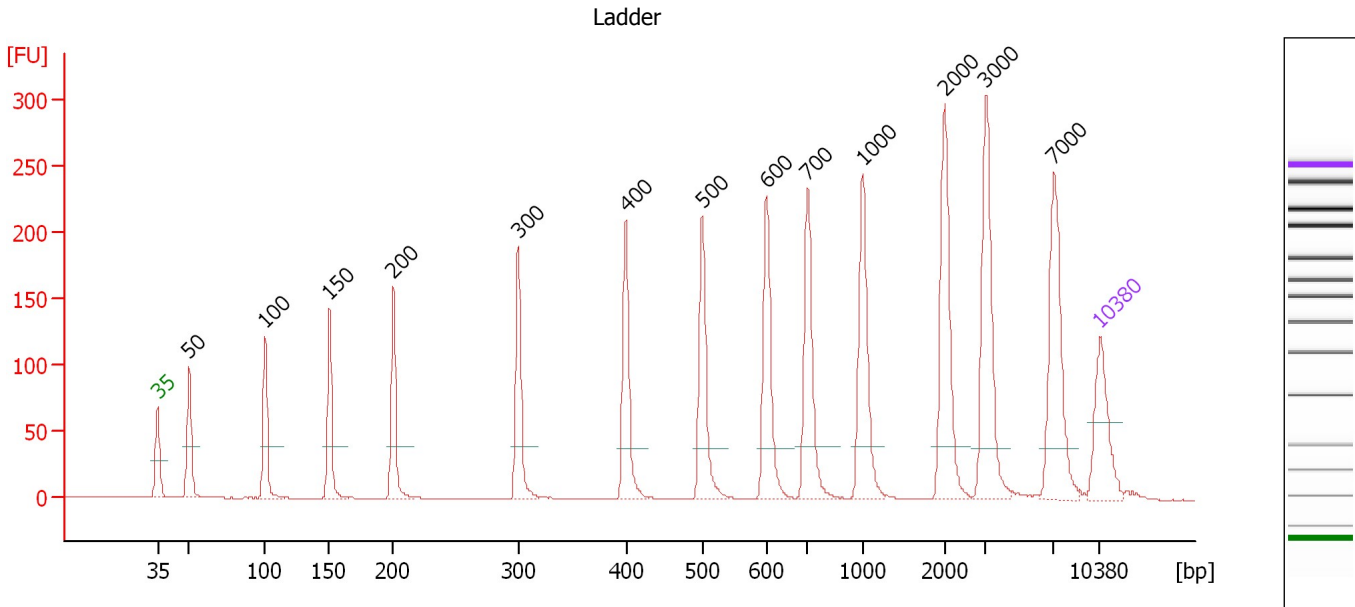
**Ladder**

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

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-01-15\2014-01-15\_002.xad

Created: 1/15/2014 4:17:30 PM  
 Modified: 1/15/2014 4:59:50 PM

**Electropherogram Summary**



**Overall Results for Ladder**

Noise: 0.2

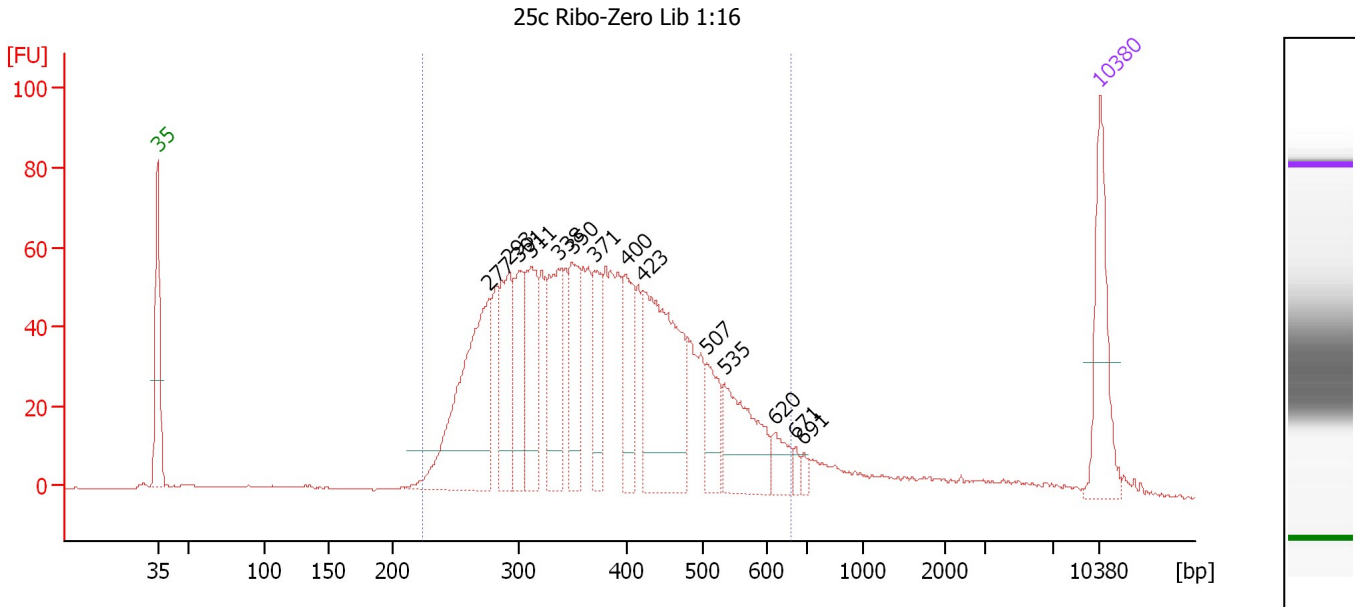
**Peak table for Ladder**

| 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    | 45.36                      | 50        | 150.00        | 4,545.5           | Ladder Peak  |
| 3    | 51.00                      | 100       | 150.00        | 2,272.7           | Ladder Peak  |
| 4    | 55.76                      | 150       | 150.00        | 1,515.2           | Ladder Peak  |
| 5    | 60.52                      | 200       | 150.00        | 1,136.4           | Ladder Peak  |
| 6    | 69.79                      | 300       | 150.00        | 757.6             | Ladder Peak  |
| 7    | 77.78                      | 400       | 150.00        | 568.2             | Ladder Peak  |
| 8    | 83.46                      | 500       | 150.00        | 454.5             | Ladder Peak  |
| 9    | 88.22                      | 600       | 150.00        | 378.8             | Ladder Peak  |
| 10   | 91.28                      | 700       | 150.00        | 324.7             | Ladder Peak  |
| 11   | 95.39                      | 1,000     | 150.00        | 227.3             | Ladder Peak  |
| 12   | 101.46                     | 2,000     | 150.00        | 113.6             | Ladder Peak  |
| 13   | 104.52                     | 3,000     | 150.00        | 75.8              | Ladder Peak  |
| 14   | 109.59                     | 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\2014-01-15\2014-01-15\_002.xad

Created: 1/15/2014 4:17:30 PM  
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**Electropherogram Summary Continued ...**



**Setpoint Deviations for sample 1 : 25c Ribo-Zero Lib 1:16**

Height Threshold [FU] : 10

**Overall Results for sample 1 : 25c Ribo-Zero Lib 1:16**

Number of peaks found: 14                      Corr. Area 1: 1,515.8  
 Noise: 0.2

**Peak table for sample 1 : 25c Ribo-Zero Lib 1:16**

| Pea<br>k | 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        | 67.63                      | 277       | 253.67        | 1,388.7           |              |
| 3        | 69.12                      | 293       | 111.09        | 574.7             |              |
| 4        | 69.87                      | 301       | 80.63         | 405.8             |              |
| 5        | 70.70                      | 311       | 106.59        | 518.5             |              |
| 6        | 72.81                      | 338       | 106.72        | 478.7             |              |
| 7        | 73.77                      | 350       | 91.14         | 394.7             |              |
| 8        | 75.44                      | 371       | 61.54         | 251.6             |              |
| 9        | 77.80                      | 400       | 72.96         | 276.1             |              |
| 10       | 79.07                      | 423       | 218.97        | 784.8             |              |
| 11       | 83.81                      | 507       | 48.34         | 144.4             |              |
| 12       | 85.12                      | 535       | 97.78         | 277.0             |              |
| 13       | 88.85                      | 620       | 26.41         | 64.5              |              |
| 14       | 90.38                      | 671       | 7.35          | 16.6              |              |
| 15       | 91.00                      | 691       | 7.03          | 15.4              |              |
| 16       | 113.00                     | 10,380    | 75.00         | 10.9              | Upper Marker |

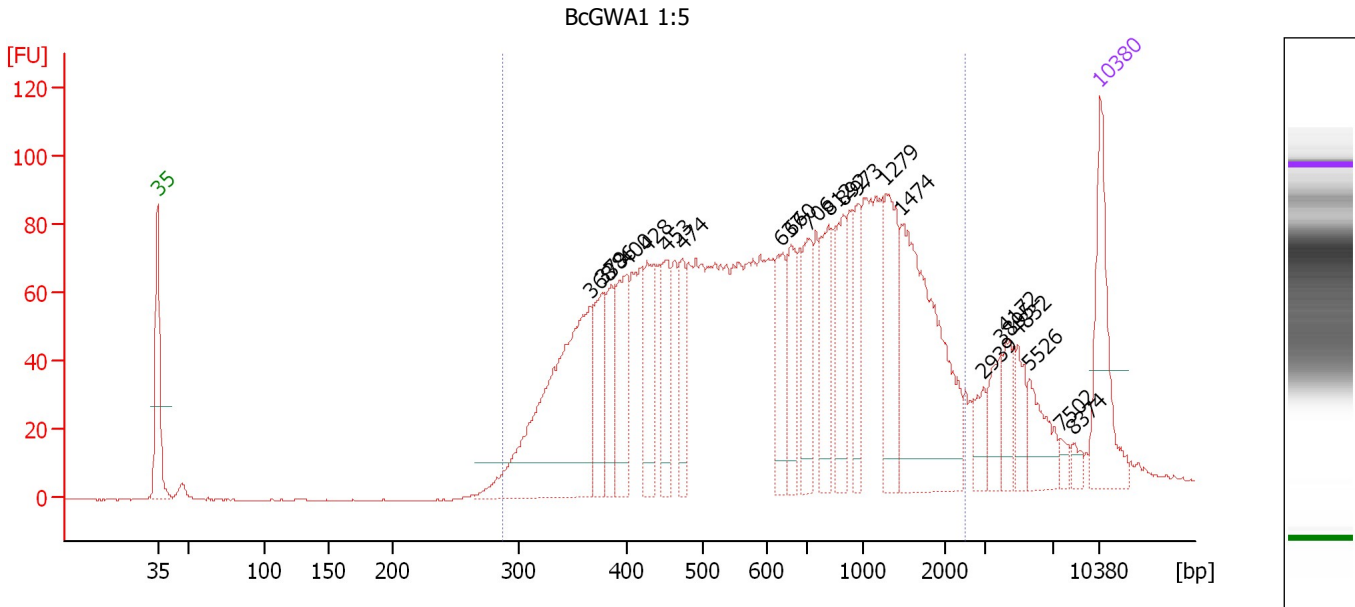
**Region table for sample 1 : 25c Ribo-Zero Lib 1:16**

| From [bp] | To [bp] | Average Size [bp] | Molarity [pmol/l] | Conc. [pg/μl] | Corr. Area | % of Total | Size distribution in CV [%] | Co<br>lor |
|-----------|---------|-------------------|-------------------|---------------|------------|------------|-----------------------------|-----------|
| 224       | 657     | 384               | 7,629.1           | 1,775.38      | 1,515.8    | 90         | 24.7                        | Blue      |

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-01-15\2014-01-15\_002.xad

Created: 1/15/2014 4:17:30 PM  
 Modified: 1/15/2014 4:59:50 PM

**Electropherogram Summary Continued ...**



**Setpoint Deviations for sample 2 : BcGWA1 1:5**

Height Threshold [FU] : 10

**Overall Results for sample 2 : BcGWA1 1:5**

Number of peaks found: 22                      Corr. Area 1: 2,473.4  
 Noise: 0.2

**Peak table for sample 2 : BcGWA1 1:5**

| Pea<br>k | 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        | 75.19                      | 368       | 305.47        | 1,259.3           |              |
| 3        | 76.07                      | 379       | 70.59         | 282.5             |              |
| 4        | 76.68                      | 386       | 55.49         | 217.7             |              |
| 5        | 77.78                      | 400       | 83.96         | 318.1             |              |
| 6        | 79.36                      | 428       | 65.71         | 232.7             |              |
| 7        | 80.81                      | 453       | 64.79         | 216.5             |              |
| 8        | 81.96                      | 474       | 46.18         | 147.8             |              |
| 9        | 89.34                      | 637       | 58.26         | 138.7             |              |
| 10       | 90.05                      | 660       | 50.34         | 115.6             |              |
| 11       | 91.37                      | 706       | 67.95         | 145.8             |              |
| 12       | 92.82                      | 812       | 66.41         | 123.9             |              |
| 13       | 93.92                      | 892       | 59.64         | 101.3             |              |
| 14       | 95.02                      | 973       | 44.28         | 69.0              |              |
| 15       | 97.08                      | 1,279     | 85.70         | 101.6             |              |
| 16       | 98.27                      | 1,474     | 195.89        | 201.4             |              |
| 17       | 104.34                     | 2,939     | 19.45         | 10.0              |              |
| 18       | 105.66                     | 3,895     | 26.86         | 10.5              |              |
| 19       | 106.01                     | 4,172     | 25.20         | 9.1               |              |
| 20       | 106.84                     | 4,832     | 24.80         | 7.8               |              |
| 21       | 107.72                     | 5,526     | 36.01         | 9.9               |              |
| 22       | 110.10                     | 7,502     | 7.34          | 1.5               |              |

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2014-01-15\2014-01-15\_002.xad

Created: 1/15/2014 4:17:30 PM  
Modified: 1/15/2014 4:59:50 PM

**Electropherogram Summary Continued ...****... Peak table for sample 2 : BcGWA1 1:5**

| Peak | Aligned Migration Time [s] | Size [bp] | Conc. [pg/ $\mu$ l] | Molarity [pmol/l] | Observations |
|------|----------------------------|-----------|---------------------|-------------------|--------------|
| 23   | 110.98                     | 8,374     | 7.12                | 1.3               |              |
| 24   | 113.00                     | 10,380    | 75.00               | 10.9              | Upper Marker |

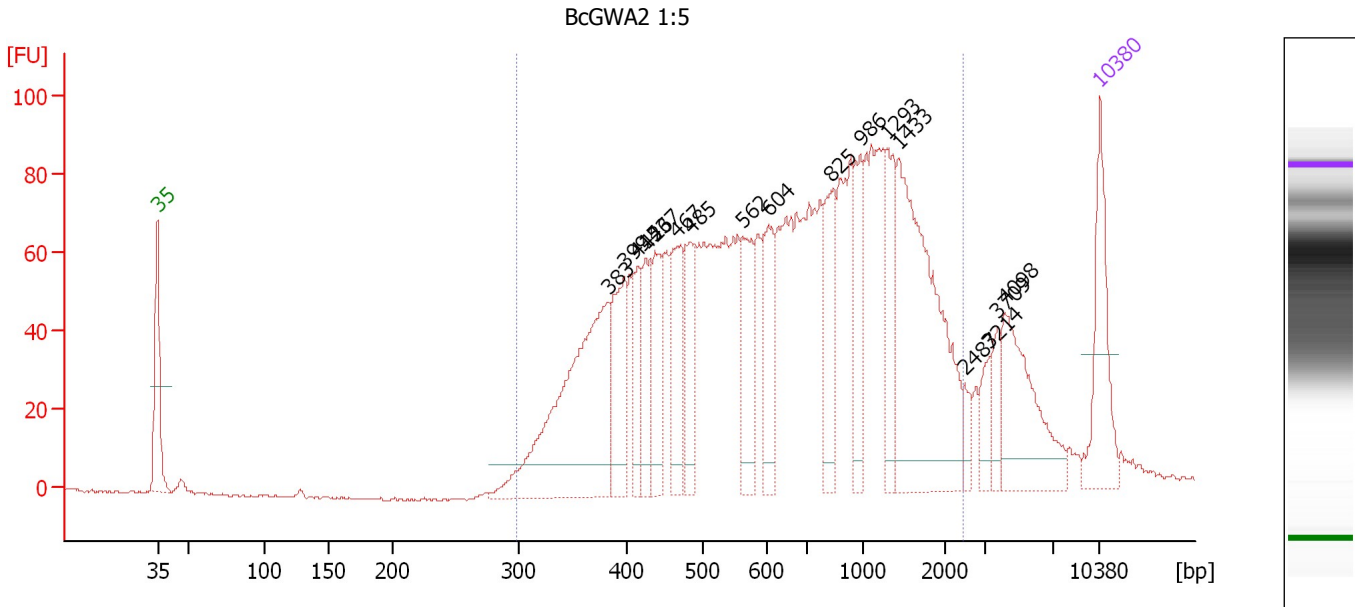
**Region table for sample 2 : BcGWA1 1:5**

| From [bp] | To [bp] | Average Size [bp] | Molarity [pmol/l] | Conc. [pg/ $\mu$ l] | Corr. Area | % of Total | Size distribution in CV [%] | Color   |
|-----------|---------|-------------------|-------------------|---------------------|------------|------------|-----------------------------|---|
| 288       | 2,482   | 786               | 5,924.8           | 2,159.95            | 2,473.4    | 90         | 60.0                        |  |

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-01-15\2014-01-15\_002.xad

Created: 1/15/2014 4:17:30 PM  
 Modified: 1/15/2014 4:59:50 PM

**Electropherogram Summary Continued ...**



**Setpoint Deviations for sample 3 : BcGWA2 1:5**

Height Threshold [FU] : 8

**Overall Results for sample 3 : BcGWA2 1:5**

Number of peaks found: 17                      Corr. Area 1: 2,199.4  
 Noise: 0.4

**Peak table for sample 3 : BcGWA2 1:5**


| 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    | 76.45                      | 383       | 319.97        | 1,264.5           |              |
| 3    | 77.66                      | 399       | 99.42         | 378.0             |              |
| 4    | 78.65                      | 415       | 49.90         | 182.0             |              |
| 5    | 79.28                      | 426       | 54.85         | 194.9             |              |
| 6    | 79.91                      | 437       | 75.86         | 262.8             |              |
| 7    | 81.57                      | 467       | 84.52         | 274.5             |              |
| 8    | 82.60                      | 485       | 76.52         | 239.2             |              |
| 9    | 86.41                      | 562       | 81.04         | 218.5             |              |
| 10   | 88.34                      | 604       | 75.46         | 189.4             |              |
| 11   | 93.00                      | 825       | 76.30         | 140.1             |              |
| 12   | 95.20                      | 986       | 62.02         | 95.3              |              |
| 13   | 97.17                      | 1,293     | 66.43         | 77.8              |              |
| 14   | 98.02                      | 1,433     | 262.63        | 277.6             |              |
| 15   | 102.96                     | 2,487     | 14.36         | 8.7               |              |
| 16   | 104.79                     | 3,214     | 21.56         | 10.2              |              |
| 17   | 105.42                     | 3,709     | 25.52         | 10.4              |              |
| 18   | 105.91                     | 4,098     | 103.56        | 38.3              |              |
| 19   | 113.00                     | 10,380    | 75.00         | 10.9              | Upper Marker |



Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2014-01-15\2014-01-15\_002.xad

Created: 1/15/2014 4:17:30 PM  
Modified: 1/15/2014 4:59:50 PM

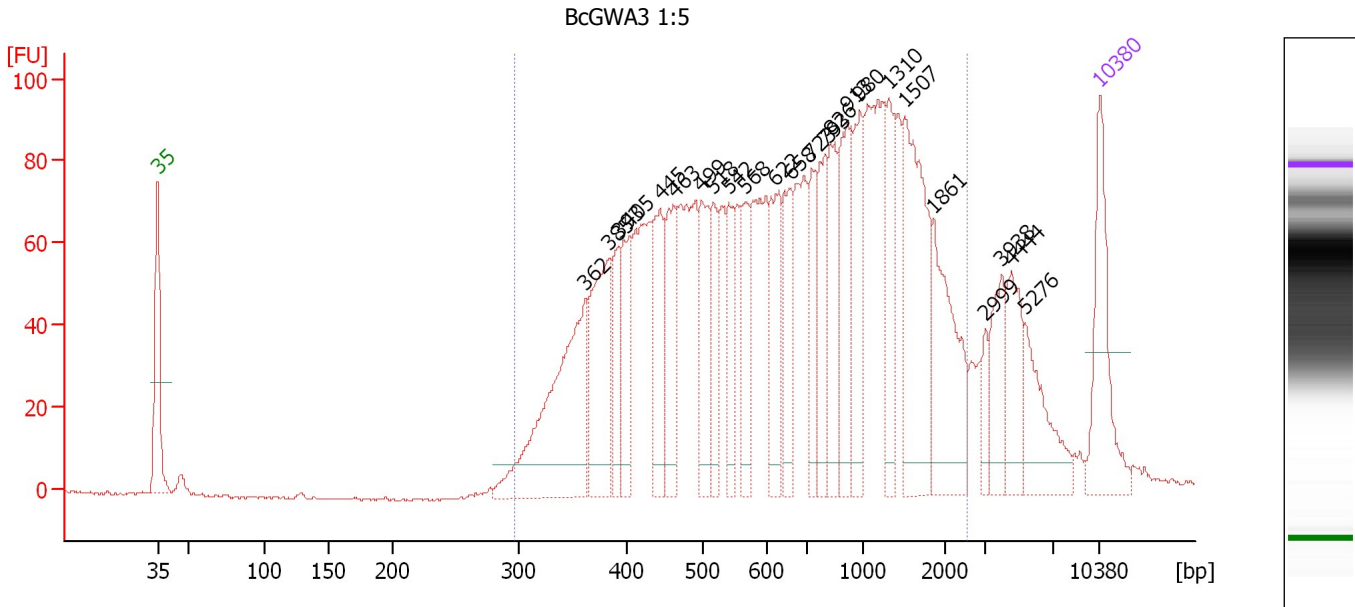
**Electropherogram Summary Continued ...****... Region table for sample 3 : BcGWA2 1:5**

| <b>From<br/>[bp]</b> | <b>To [bp]</b> | <b>Average Size<br/>[bp]</b> | <b>Molarity<br/>[pmol/l]</b> | <b>Conc.<br/>[pg/μl]</b> | <b>Corr.<br/>Area</b> | <b>% of<br/>Total</b> | <b>Size distribution in<br/>CV [%]</b> | <b>Co<br/>lor</b>   |
|----------------------|----------------|------------------------------|------------------------------|--------------------------|-----------------------|-----------------------|--|---|
| 298                  | 2,456          | 822                          | 5,881.3                      | 2,277.53                 | 2,199.4               | 90                    | 57.6                                   |  |

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-01-15\2014-01-15\_002.xad

Created: 1/15/2014 4:17:30 PM  
 Modified: 1/15/2014 4:59:50 PM

**Electropherogram Summary Continued ...**



**Setpoint Deviations for sample 4 : BcGWA3 1:5**

Height Threshold [FU] : 8

**Overall Results for sample 4 : BcGWA3 1:5**

Number of peaks found: 24      Corr. Area 1: 2,520.6  
 Noise: 0.4

**Peak table for sample 4 : BcGWA3 1:5**

| Pea<br>k | 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        | 74.77                      | 362       | 231.19        | 966.8             |              |
| 3        | 76.56                      | 385       | 126.83        | 499.5             |              |
| 4        | 77.20                      | 393       | 53.90         | 208.0             |              |
| 5        | 78.07                      | 405       | 66.83         | 250.0             |              |
| 6        | 80.31                      | 445       | 87.79         | 299.2             |              |
| 7        | 81.37                      | 463       | 79.67         | 260.6             |              |
| 8        | 83.39                      | 499       | 78.99         | 240.0             |              |
| 9        | 84.30                      | 518       | 60.15         | 176.1             |              |
| 10       | 85.45                      | 542       | 50.36         | 140.9             |              |
| 11       | 86.69                      | 568       | 52.68         | 140.6             |              |
| 12       | 88.89                      | 622       | 77.08         | 187.9             |              |
| 13       | 89.99                      | 658       | 60.05         | 138.4             |              |
| 14       | 91.59                      | 723       | 51.09         | 107.1             |              |
| 15       | 92.55                      | 793       | 70.37         | 134.5             |              |
| 16       | 93.01                      | 826       | 71.72         | 131.5             |              |
| 17       | 94.20                      | 913       | 87.06         | 144.4             |              |
| 18       | 95.12                      | 980       | 74.84         | 115.7             |              |
| 19       | 97.28                      | 1,310     | 53.39         | 61.7              |              |
| 20       | 98.47                      | 1,507     | 147.36        | 148.2             |              |
| 21       | 100.62                     | 1,861     | 102.22        | 83.2              |              |
| 22       | 104.52                     | 2,999     | 16.68         | 8.4               |              |

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-01-15\2014-01-15\_002.xad


Created: 1/15/2014 4:17:30 PM  
 Modified: 1/15/2014 4:59:50 PM

### Electropherogram Summary Continued ...

#### ... Peak table for sample 4 : BcGWA3 1:5

| Peak | Aligned Migration Time [s] | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations |
|------|----------------------------|-----------|---------------|-------------------|--------------|
| 23   | 105.71                     | 3,938     | 45.98         | 17.7              |              |
| 24   | 106.35                     | 4,444     | 49.74         | 17.0              |              |
| 25   | 107.41                     | 5,276     | 59.41         | 17.1              |              |
| 26   | ▶ 113.00                   | 10,380    | 75.00         | 10.9              | Upper Marker |

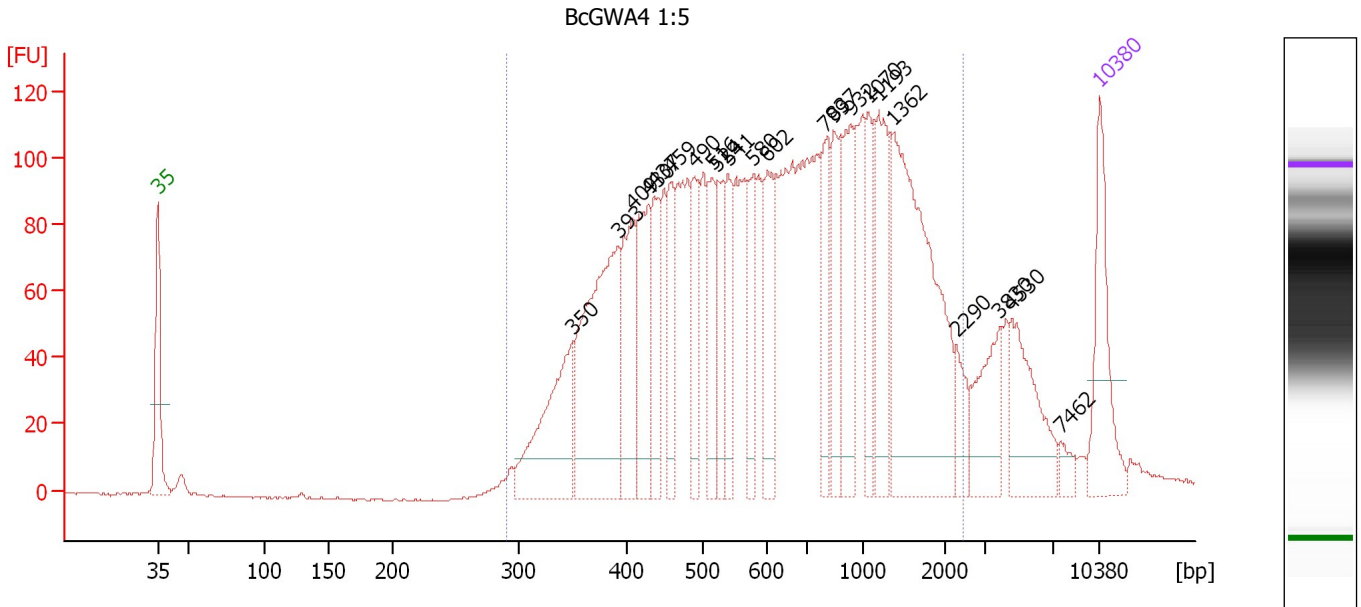
#### Region table for sample 4 : BcGWA3 1:5

| From [bp] | To [bp] | Average Size [bp] | Molarity [pmol/l] | Conc. [pg/μl] | Corr. Area | % of Total | Size distribution in CV [%] | Color   |
|-----------|---------|-------------------|-------------------|---------------|------------|------------|-----------------------------|---|
| 298       | 2,563   | 835               | 6,286.9           | 2,417.21      | 2,520.6    | 90         | 59.8                        |  |

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-01-15\2014-01-15\_002.xad

Created: 1/15/2014 4:17:30 PM  
 Modified: 1/15/2014 4:59:50 PM

**Electropherogram Summary Continued ...**



**Setpoint Deviations for sample 5 : BcGWA4 1:5**

Height Threshold [FU] : 12

**Overall Results for sample 5 : BcGWA4 1:5**

Number of peaks found: 22                      Corr. Area 1: 3,141.0  
 Noise: 0.3

**Peak table for sample 5 : BcGWA4 1:5**

| 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    | 73.82                      | 350       | 153.95        | 665.6             |              |
| 3    | 77.18                      | 393       | 269.14        | 1,038.9           |              |
| 4    | 78.30                      | 409       | 105.82        | 391.8             |              |
| 5    | 79.47                      | 430       | 106.10        | 374.1             |              |
| 6    | 79.89                      | 437       | 72.17         | 250.1             |              |
| 7    | 81.15                      | 459       | 64.26         | 212.0             |              |
| 8    | 82.88                      | 490       | 69.15         | 213.9             |              |
| 9    | 84.23                      | 516       | 66.45         | 195.0             |              |
| 10   | 84.61                      | 524       | 60.90         | 176.1             |              |
| 11   | 85.40                      | 541       | 59.58         | 167.0             |              |
| 12   | 87.27                      | 580       | 56.57         | 147.8             |              |
| 13   | 88.30                      | 602       | 76.68         | 192.9             |              |
| 14   | 92.64                      | 799       | 66.71         | 126.5             |              |
| 15   | 93.15                      | 837       | 75.51         | 136.8             |              |
| 16   | 94.46                      | 932       | 89.61         | 145.7             |              |
| 17   | 95.82                      | 1,070     | 54.64         | 77.4              |              |
| 18   | 96.56                      | 1,193     | 93.01         | 118.1             |              |
| 19   | 97.59                      | 1,362     | 283.29        | 315.1             |              |
| 20   | 102.35                     | 2,290     | 28.95         | 19.1              |              |
| 21   | 105.58                     | 3,830     | 62.72         | 24.8              |              |
| 22   | 106.46                     | 4,530     | 80.38         | 26.9              |              |

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-01-15\2014-01-15\_002.xad


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### Electropherogram Summary Continued ...

#### ... Peak table for sample 5 : BcGWA4 1:5

| Peak | Aligned Migration Time [s] | Size [bp] | Conc. [pg/ $\mu$ l] | Molarity [pmol/l] | Observations |
|------|----------------------------|-----------|---------------------|-------------------|--------------|
| 23   | 110.06                     | 7,462     | 10.95               | 2.2               |              |
| 24   | 113.00                     | 10,380    | 75.00               | 10.9              | Upper Marker |

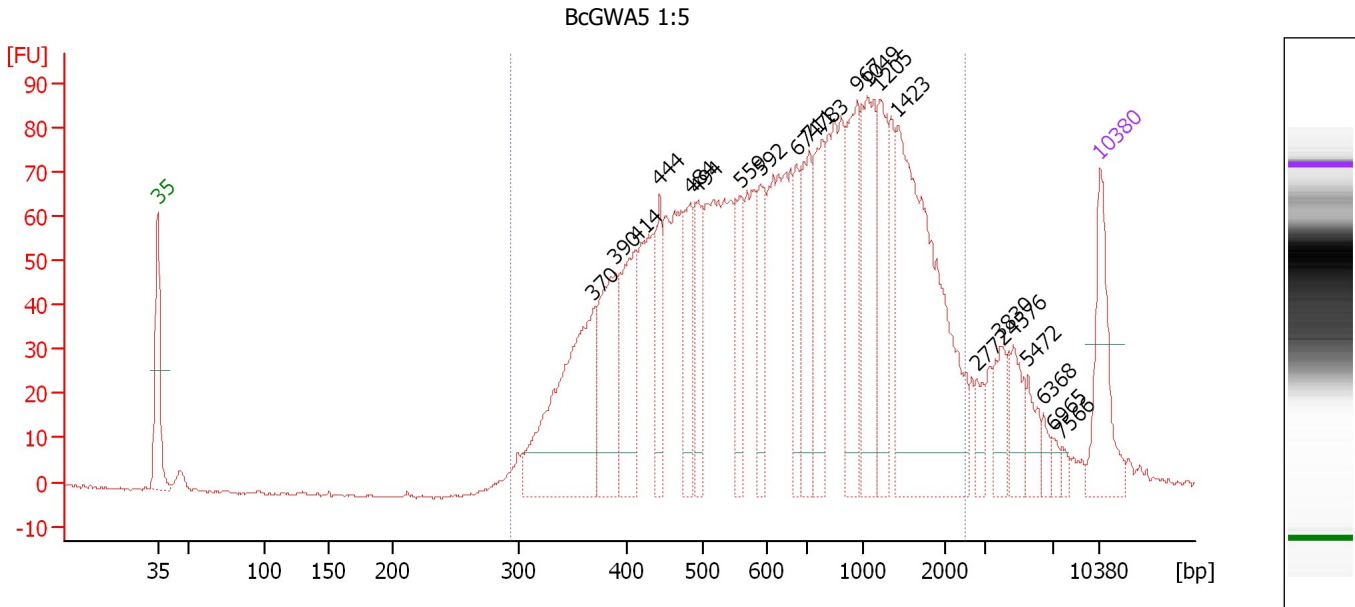
#### Region table for sample 5 : BcGWA4 1:5

| From [bp] | To [bp] | Average Size [bp] | Molarity [pmol/l] | Conc. [pg/ $\mu$ l] | Corr. Area | % of Total | Size distribution in CV [%] | Color   |
|-----------|---------|-------------------|-------------------|---------------------|------------|------------|-----------------------------|---|
| 291       | 2,452   | 797               | 6,899.2           | 2,610.11            | 3,140.9    | 90         | 58.3                        |  |

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-01-15\2014-01-15\_002.xad

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**Electropherogram Summary Continued ...**



**Setpoint Deviations for sample 6 : BcGWA5 1:5**

Height Threshold [FU] : 10

**Overall Results for sample 6 : BcGWA5 1:5**

Number of peaks found: 22                      Corr. Area 1: 2,263.5  
 Noise: 0.4

**Peak table for sample 6 : BcGWA5 1:5**

| 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    | 75.35                      | 370       | 272.30        | 1,116.2           |              |
| 3    | 77.01                      | 390       | 143.48        | 557.0             |              |
| 4    | 78.57                      | 414       | 128.13        | 469.1             |              |
| 5    | 80.27                      | 444       | 66.59         | 227.3             |              |
| 6    | 82.54                      | 484       | 92.86         | 290.8             |              |
| 7    | 83.11                      | 494       | 67.54         | 207.3             |              |
| 8    | 86.28                      | 559       | 67.31         | 182.4             |              |
| 9    | 87.84                      | 592       | 71.44         | 182.9             |              |
| 10   | 90.49                      | 674       | 65.28         | 146.8             |              |
| 11   | 91.43                      | 711       | 97.53         | 207.9             |              |
| 12   | 92.43                      | 783       | 96.98         | 187.6             |              |
| 13   | 94.93                      | 967       | 110.66        | 173.5             |              |
| 14   | 95.69                      | 1,049     | 125.75        | 181.6             |              |
| 15   | 96.64                      | 1,205     | 91.40         | 114.9             |              |
| 16   | 97.96                      | 1,423     | 335.58        | 357.3             |              |
| 17   | 103.82                     | 2,772     | 18.07         | 9.9               |              |
| 18   | 105.57                     | 3,830     | 34.10         | 13.5              |              |
| 19   | 106.52                     | 4,576     | 36.84         | 12.2              |              |
| 20   | 107.66                     | 5,472     | 24.74         | 6.9               |              |
| 21   | 108.79                     | 6,368     | 11.49         | 2.7               |              |
| 22   | 109.55                     | 6,965     | 8.47          | 1.8               |              |

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-01-15\2014-01-15\_002.xad

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### Electropherogram Summary Continued ...

#### ... Peak table for sample 6 : BcGWA5 1:5

| Peak | Aligned Migration Time [s] | Size [bp] | Conc. [pg/ $\mu$ l] | Molarity [pmol/l] | Observations |
|------|----------------------------|-----------|---------------------|-------------------|--------------|
| 23   | 110.16                     | 7,566     | 6.46                | 1.3               |              |
| 24   | 113.00                     | 10,380    | 75.00               | 10.9              | Upper Marker |

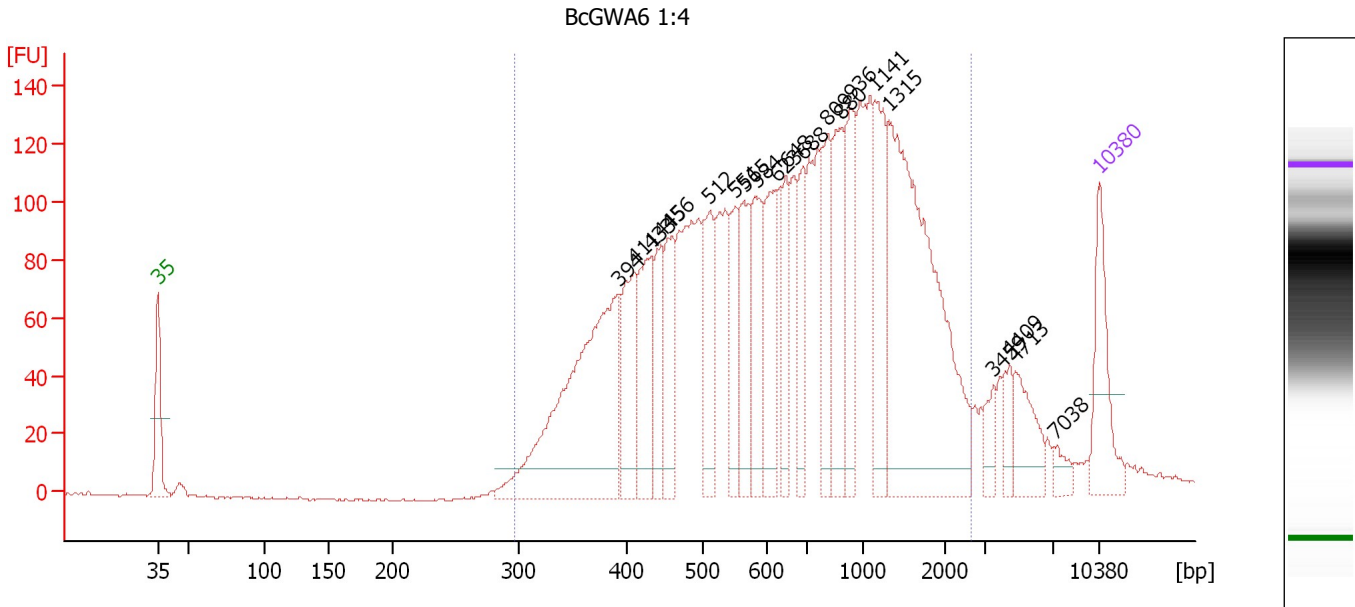
#### Region table for sample 6 : BcGWA5 1:5

| From [bp] | To [bp] | Average Size [bp] | Molarity [pmol/l] | Conc. [pg/ $\mu$ l] | Corr. Area | % of Total | Size distribution in CV [%] | Color   |
|-----------|---------|-------------------|-------------------|---------------------|------------|------------|-----------------------------|---|
| 294       | 2,513   | 824               | 7,341.4           | 2,847.39            | 2,263.5    | 91         | 57.9                        |  |

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-01-15\2014-01-15\_002.xad

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**Electropherogram Summary Continued ...**



**Setpoint Deviations for sample 7 : BcGWA6 1:4**

Height Threshold [FU] : 10

**Overall Results for sample 7 : BcGWA6 1:4**

Number of peaks found: 21      Corr. Area 1: 3,284.0  
 Noise: 0.3

**Peak table for sample 7 : BcGWA6 1:4**

| 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    | 77.28                      | 394       | 418.88        | 1,612.1           |              |
| 3    | 78.39                      | 411       | 116.06        | 428.2             |              |
| 4    | 79.64                      | 433       | 123.19        | 431.4             |              |
| 5    | 80.31                      | 445       | 82.47         | 281.1             |              |
| 6    | 80.94                      | 456       | 90.63         | 301.4             |              |
| 7    | 84.02                      | 512       | 105.05        | 311.1             |              |
| 8    | 85.90                      | 551       | 79.82         | 219.5             |              |
| 9    | 86.57                      | 565       | 95.59         | 256.2             |              |
| 10   | 87.48                      | 584       | 94.37         | 244.6             |              |
| 11   | 88.93                      | 623       | 114.93        | 279.5             |              |
| 12   | 89.70                      | 648       | 70.72         | 165.3             |              |
| 13   | 90.90                      | 688       | 73.51         | 162.0             |              |
| 14   | 92.78                      | 809       | 92.88         | 173.9             |              |
| 15   | 93.74                      | 880       | 108.66        | 187.2             |              |
| 16   | 94.51                      | 936       | 103.84        | 168.1             |              |
| 17   | 96.25                      | 1,141     | 115.50        | 153.4             |              |
| 18   | 97.31                      | 1,315     | 429.51        | 494.8             |              |
| 19   | 105.10                     | 3,459     | 22.32         | 9.8               |              |
| 20   | 106.31                     | 4,409     | 26.35         | 9.1               |              |
| 21   | 106.69                     | 4,713     | 52.48         | 16.9              |              |
| 22   | 109.63                     | 7,038     | 14.09         | 3.0               |              |




Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2014-01-15\2014-01-15\_002.xad

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**Electropherogram Summary Continued ...****... Peak table for sample 7 : BcGWA6 1:4**

| Peak | Aligned Migration Time [s] | Size [bp] | Conc. [pg/ $\mu$ l] | Molarity [pmol/l] | Observations |
|------|----------------------------|-----------|---------------------|-------------------|--------------|
| 23   | 113.00                     | 10,380    | 75.00               | 10.9              | Upper Marker |

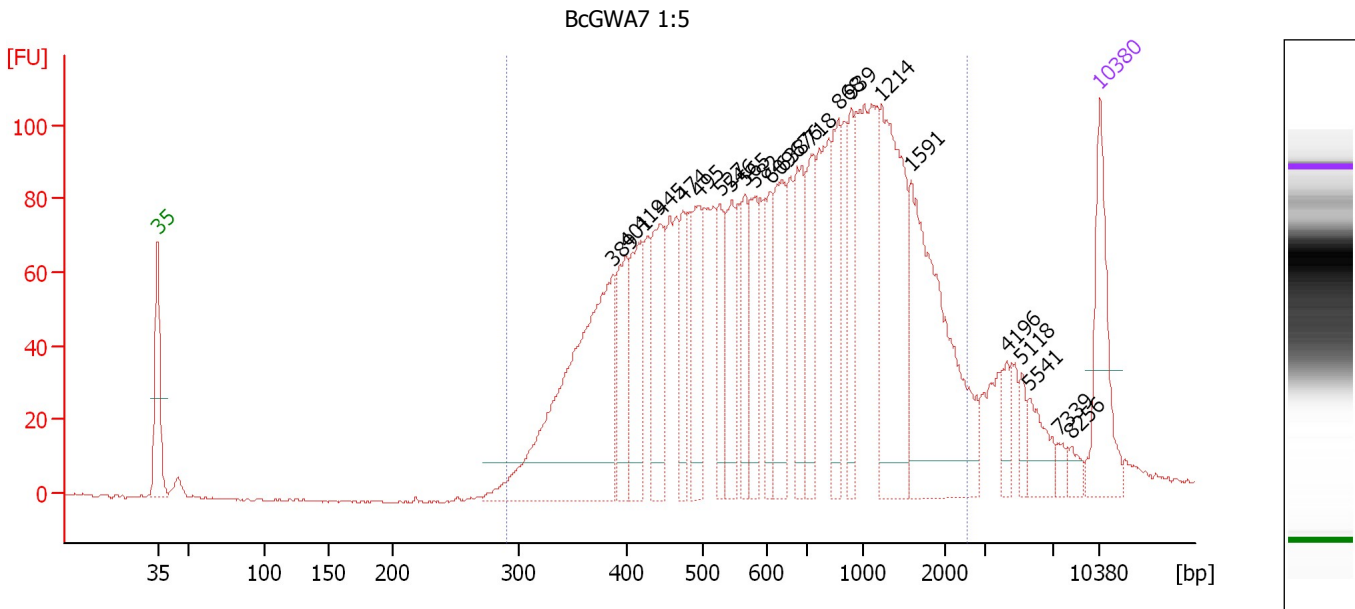
**Region table for sample 7 : BcGWA6 1:4**

| From [bp] | To [bp] | Average Size [bp] | Molarity [pmol/l] | Conc. [pg/ $\mu$ l] | Corr. Area | % of Total | Size distribution in CV [%] | Color   |
|-----------|---------|-------------------|-------------------|---------------------|------------|------------|-----------------------------|---|
| 297       | 2,624   | 836               | 7,628.6           | 3,010.98            | 3,284.0    | 92         | 57.7                        |  |

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-01-15\2014-01-15\_002.xad

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**Electropherogram Summary Continued ...**



**Setpoint Deviations for sample 8 : BcGWA7 1:5**

Height Threshold [FU] : 10

**Overall Results for sample 8 : BcGWA7 1:5**

Number of peaks found: 23      Corr. Area 1: 2,678.9  
 Noise: 0.4

**Peak table for sample 8 : BcGWA7 1:5**

| 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    | 76.88                      | 389       | 358.34        | 1,396.7           |              |
| 3    | 77.85                      | 401       | 77.99         | 294.5             |              |
| 4    | 78.88                      | 419       | 94.61         | 341.9             |              |
| 5    | 80.34                      | 445       | 95.44         | 325.0             |              |
| 6    | 81.99                      | 474       | 60.80         | 194.3             |              |
| 7    | 83.16                      | 495       | 89.39         | 273.8             |              |
| 8    | 84.77                      | 527       | 62.95         | 180.9             |              |
| 9    | 85.64                      | 546       | 70.25         | 195.0             |              |
| 10   | 86.57                      | 565       | 56.78         | 152.2             |              |
| 11   | 87.35                      | 582       | 64.09         | 167.0             |              |
| 12   | 88.51                      | 609       | 59.01         | 146.7             |              |
| 13   | 89.39                      | 638       | 83.13         | 197.4             |              |
| 14   | 90.56                      | 676       | 82.47         | 184.8             |              |
| 15   | 91.53                      | 718       | 70.43         | 148.6             |              |
| 16   | 93.58                      | 868       | 79.72         | 139.2             |              |
| 17   | 94.55                      | 939       | 60.78         | 98.1              |              |
| 18   | 96.69                      | 1,214     | 186.04        | 232.1             |              |
| 19   | 98.98                      | 1,591     | 216.90        | 206.6             |              |
| 20   | 106.04                     | 4,196     | 16.16         | 5.8               |              |
| 21   | 107.21                     | 5,118     | 14.82         | 4.4               |              |
| 22   | 107.74                     | 5,541     | 30.25         | 8.3               |              |

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-01-15\2014-01-15\_002.xad


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### Electropherogram Summary Continued ...

#### ... Peak table for sample 8 : BcGWA7 1:5

| Peak | Aligned Migration Time [s] | Size [bp] | Conc. [pg/ $\mu$ l] | Molarity [pmol/l] | Observations |
|------|----------------------------|-----------|---------------------|-------------------|--------------|
| 23   | 109.93                     | 7,339     | 8.67                | 1.8               |              |
| 24   | 110.86                     | 8,256     | 9.37                | 1.7               |              |
| 25   | 113.00                     | 10,380    | 75.00               | 10.9              | Upper Marker |

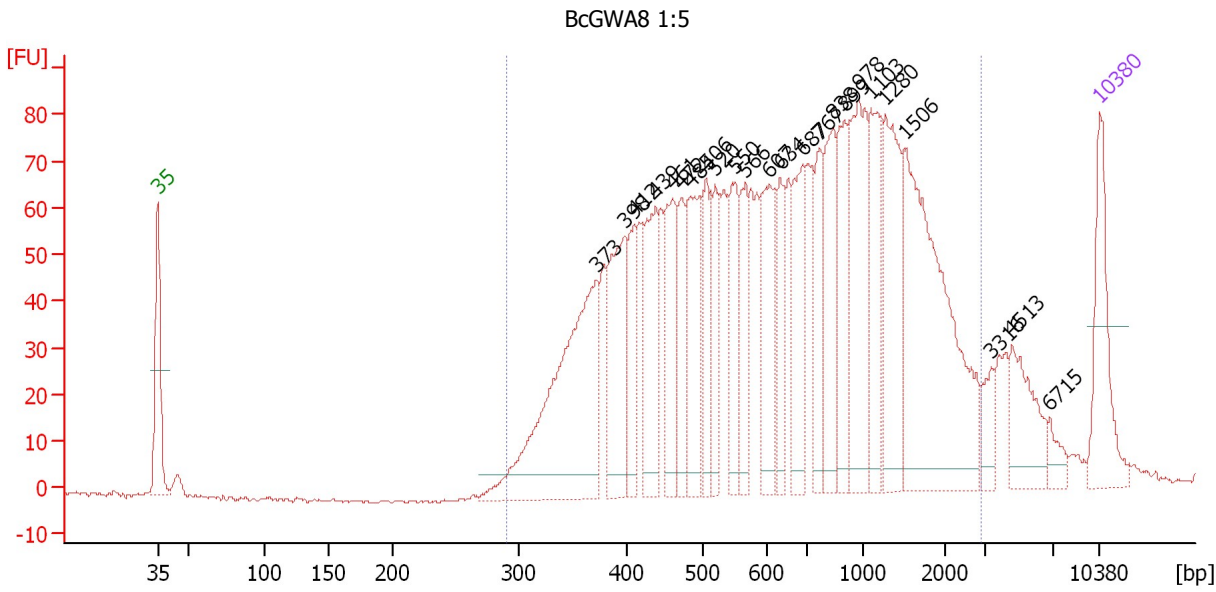
#### Region table for sample 8 : BcGWA7 1:5

| From [bp] | To [bp] | Average Size [bp] | Molarity [pmol/l] | Conc. [pg/ $\mu$ l] | Corr. Area | % of Total | Size distribution in CV [%] | Color   |
|-----------|---------|-------------------|-------------------|---------------------|------------|------------|-----------------------------|---|
| 291       | 2,552   | 817               | 6,494.1           | 2,506.79            | 2,678.9    | 91         | 58.2                        |  |

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-01-15\2014-01-15\_002.xad

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**Electropherogram Summary Continued ...**



**Overall Results for sample 9 : BcGWA8 1:5**

Number of peaks found: 24      Corr. Area 1: 2,234.8  
 Noise: 0.4

**Peak table for sample 9 : BcGWA8 1:5**

| 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    | 75.60                      | 373       | 323.80        | 1,316.2           |              |
| 3    | 77.66                      | 398       | 138.54        | 526.8             |              |
| 4    | 78.44                      | 412       | 71.26         | 262.3             |              |
| 5    | 80.01                      | 439       | 122.18        | 421.5             |              |
| 6    | 81.23                      | 461       | 95.10         | 312.7             |              |
| 7    | 81.87                      | 472       | 65.05         | 208.8             |              |
| 8    | 82.55                      | 484       | 115.23        | 360.7             |              |
| 9    | 83.73                      | 506       | 70.81         | 212.2             |              |
| 10   | 84.41                      | 520       | 63.57         | 185.2             |              |
| 11   | 85.83                      | 550       | 80.21         | 221.1             |              |
| 12   | 86.62                      | 566       | 64.24         | 171.9             |              |
| 13   | 88.43                      | 607       | 96.42         | 240.8             |              |
| 14   | 89.26                      | 634       | 57.96         | 138.5             |              |
| 15   | 90.87                      | 687       | 97.32         | 214.8             |              |
| 16   | 92.20                      | 767       | 70.40         | 139.1             |              |
| 17   | 93.17                      | 838       | 94.66         | 171.1             |              |
| 18   | 94.01                      | 899       | 80.56         | 135.8             |              |
| 19   | 95.08                      | 978       | 140.46        | 217.7             |              |
| 20   | 96.01                      | 1,103     | 94.99         | 130.5             |              |
| 21   | 97.09                      | 1,280     | 120.32        | 142.4             |              |
| 22   | 98.46                      | 1,506     | 280.03        | 281.8             |              |
| 23   | 104.92                     | 3,316     | 21.32         | 9.7               |              |
| 24   | 106.44                     | 4,513     | 60.57         | 20.3              |              |
| 25   | 109.23                     | 6,715     | 14.57         | 3.3               |              |

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-01-15\2014-01-15\_002.xad


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### Electropherogram Summary Continued ...

#### ... Peak table for sample 9 : BcGWA8 1:5

| Peak | Aligned Migration Time [s] | Size [bp] | Conc. [pg/ $\mu$ l] | Molarity [pmol/l] | Observations |
|------|----------------------------|-----------|---------------------|-------------------|--------------|
| 26   | 113.00                     | 10,380    | 75.00               | 10.9              | Upper Marker |

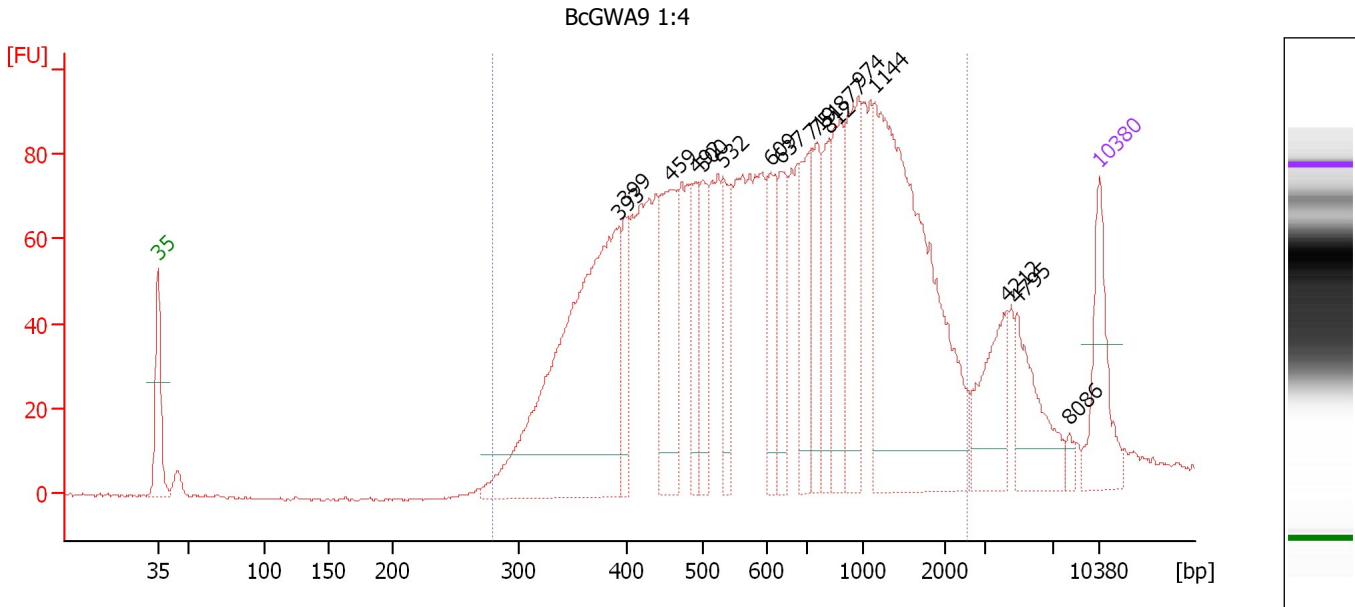
#### Region table for sample 9 : BcGWA8 1:5

| From [bp] | To [bp] | Average Size [bp] | Molarity [pmol/l] | Conc. [pg/ $\mu$ l] | Corr. Area | % of Total | Size distribution in CV [%] | Color   |
|-----------|---------|-------------------|-------------------|---------------------|------------|------------|-----------------------------|---|
| 290       | 2,875   | 842               | 7,148.0           | 2,739.09            | 2,234.8    | 92         | 63.0                        |  |

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-01-15\2014-01-15\_002.xad

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**Electropherogram Summary Continued ...**



**Setpoint Deviations for sample 10 : BcGWA9 1:4**

Height Threshold [FU] : 10

**Overall Results for sample 10 : BcGWA9 1:4**

Number of peaks found: 17                      Corr. Area 1: 2,462.2  
 Noise: 0.3

**Peak table for sample 10 : BcGWA9 1:4**

| 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    | 77.21                      | 393       | 565.59        | 2,181.2           |              |
| 3    | 77.70                      | 399       | 70.97         | 269.5             |              |
| 4    | 81.15                      | 459       | 161.02        | 531.2             |              |
| 5    | 83.02                      | 492       | 74.87         | 230.5             |              |
| 6    | 83.46                      | 500       | 74.56         | 225.9             |              |
| 7    | 84.99                      | 532       | 76.36         | 217.5             |              |
| 8    | 88.49                      | 609       | 85.61         | 213.2             |              |
| 9    | 89.37                      | 637       | 76.32         | 181.4             |              |
| 10   | 91.54                      | 719       | 95.96         | 202.4             |              |
| 11   | 91.98                      | 751       | 80.42         | 162.3             |              |
| 12   | 92.82                      | 812       | 67.80         | 126.5             |              |
| 13   | 93.70                      | 877       | 110.64        | 191.2             |              |
| 14   | 95.03                      | 974       | 136.10        | 211.8             |              |
| 15   | 96.26                      | 1,144     | 487.01        | 645.2             |              |
| 16   | 106.06                     | 4,212     | 80.43         | 28.9              |              |
| 17   | 106.80                     | 4,795     | 78.77         | 24.9              |              |
| 18   | 110.69                     | 8,086     | 7.46          | 1.4               |              |
| 19   | 113.00                     | 10,380    | 75.00         | 10.9              | Upper Marker |

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2014-01-15\2014-01-15\_002.xad

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**Electropherogram Summary Continued ...**

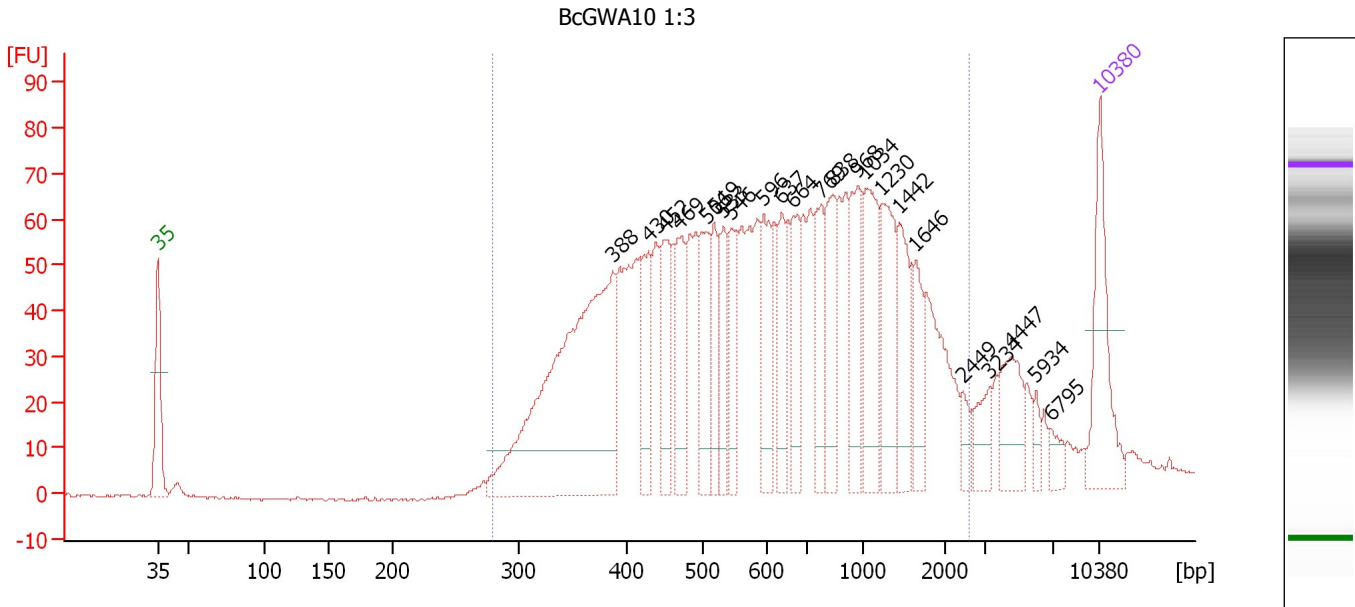
... Region table for sample 10 : BcGWA9 1:4

| From [bp] | To [bp] | Average Size [bp] | Molarity [pmol/l] | Conc. [pg/μl] | Corr. Area | % of Total | Size distribution in CV [%] | Color |
|-----------|---------|-------------------|-------------------|---------------|------------|------------|-----------------------------|-------|
| 280       | 2,542   | 784               | 8,258.2           | 3,051.64      | 2,462.2    | 90         | 59.2                        | ■     |

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-01-15\2014-01-15\_002.xad

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**Electropherogram Summary Continued ...**



**Setpoint Deviations for sample 11 : BcGWA10 1:3**

Height Threshold [FU] : 10

**Overall Results for sample 11 : BcGWA10 1:3**

Number of peaks found: 23      Corr. Area 1: 1,894.2  
 Noise: 0.4

**Peak table for sample 11 : BcGWA10 1:3**

| 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    | 76.81                      | 388       | 432.65        | 1,690.2           |              |
| 3    | 79.49                      | 430       | 70.43         | 248.1             |              |
| 4    | 80.73                      | 452       | 73.08         | 245.1             |              |
| 5    | 81.72                      | 469       | 76.93         | 248.4             |              |
| 6    | 83.75                      | 506       | 68.10         | 203.9             |              |
| 7    | 84.35                      | 519       | 54.62         | 159.6             |              |
| 8    | 85.04                      | 533       | 53.17         | 151.1             |              |
| 9    | 85.63                      | 546       | 52.53         | 145.9             |              |
| 10   | 88.01                      | 596       | 69.70         | 177.3             |              |
| 11   | 89.35                      | 637       | 58.41         | 139.0             |              |
| 12   | 90.20                      | 664       | 58.97         | 134.5             |              |
| 13   | 92.23                      | 769       | 62.36         | 122.9             |              |
| 14   | 93.17                      | 838       | 65.84         | 119.1             |              |
| 15   | 94.95                      | 968       | 70.09         | 109.7             |              |
| 16   | 95.60                      | 1,034     | 88.91         | 130.2             |              |
| 17   | 96.79                      | 1,230     | 80.90         | 99.6              |              |
| 18   | 98.08                      | 1,442     | 58.22         | 61.2              |              |
| 19   | 99.32                      | 1,646     | 41.55         | 38.2              |              |
| 20   | 102.84                     | 2,449     | 15.24         | 9.4               |              |
| 21   | 104.82                     | 3,234     | 24.99         | 11.7              |              |
| 22   | 106.36                     | 4,447     | 46.97         | 16.0              |              |



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2014-01-15\2014-01-15\_002.xad


Created: 1/15/2014 4:17:30 PM  
 Modified: 1/15/2014 4:59:50 PM

### Electropherogram Summary Continued ...

#### ... Peak table for sample 11 : BcGWA10 1:3

| Peak | Aligned Migration Time [s] | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations |
|------|----------------------------|-----------|---------------|-------------------|--------------|
| 23   | 108.24                     | 5,934     | 10.87         | 2.8               |              |
| 24   | 109.33                     | 6,795     | 12.16         | 2.7               |              |
| 25   | ▶ 113.00                   | 10,380    | 75.00         | 10.9              | Upper Marker |

#### Region table for sample 11 : BcGWA10 1:3

| From [bp] | To [bp] | Average Size [bp] | Molarity [pmol/l] | Conc. [pg/μl] | Corr. Area | % of Total | Size distribution in CV [%] | Color   |
|-----------|---------|-------------------|-------------------|---------------|------------|------------|-----------------------------|---|
| 279       | 2,601   | 773               | 6,271.3           | 2,275.18      | 1,894.2    | 91         | 60.6                        |  |

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2014-01-15\2014-01-15\_002.xad

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**Gel Image**

