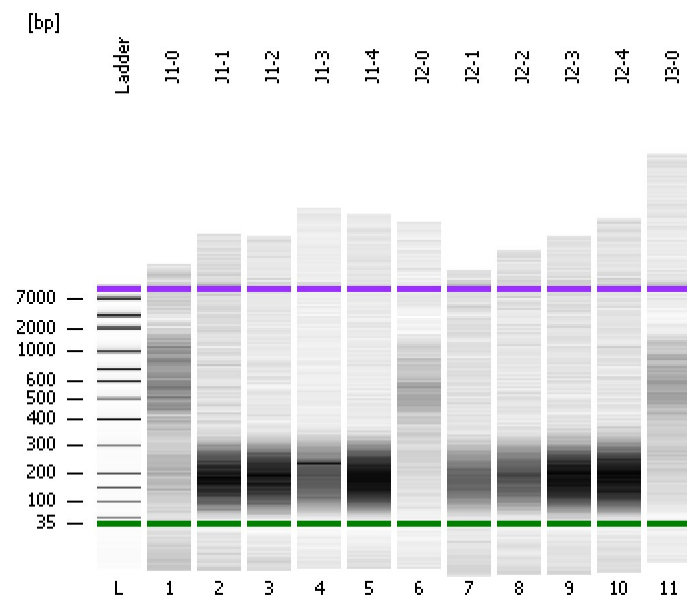


Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...gh Sensitivity DNA Assay\_DE20901668\_2014-08-07\_16-08-13.xad

Created: 8/7/2014 4:08:12 PM  
Modified: 8/8/2014 9:11:40 AM

### Electrophoresis File Run Summary



#### Instrument Information:

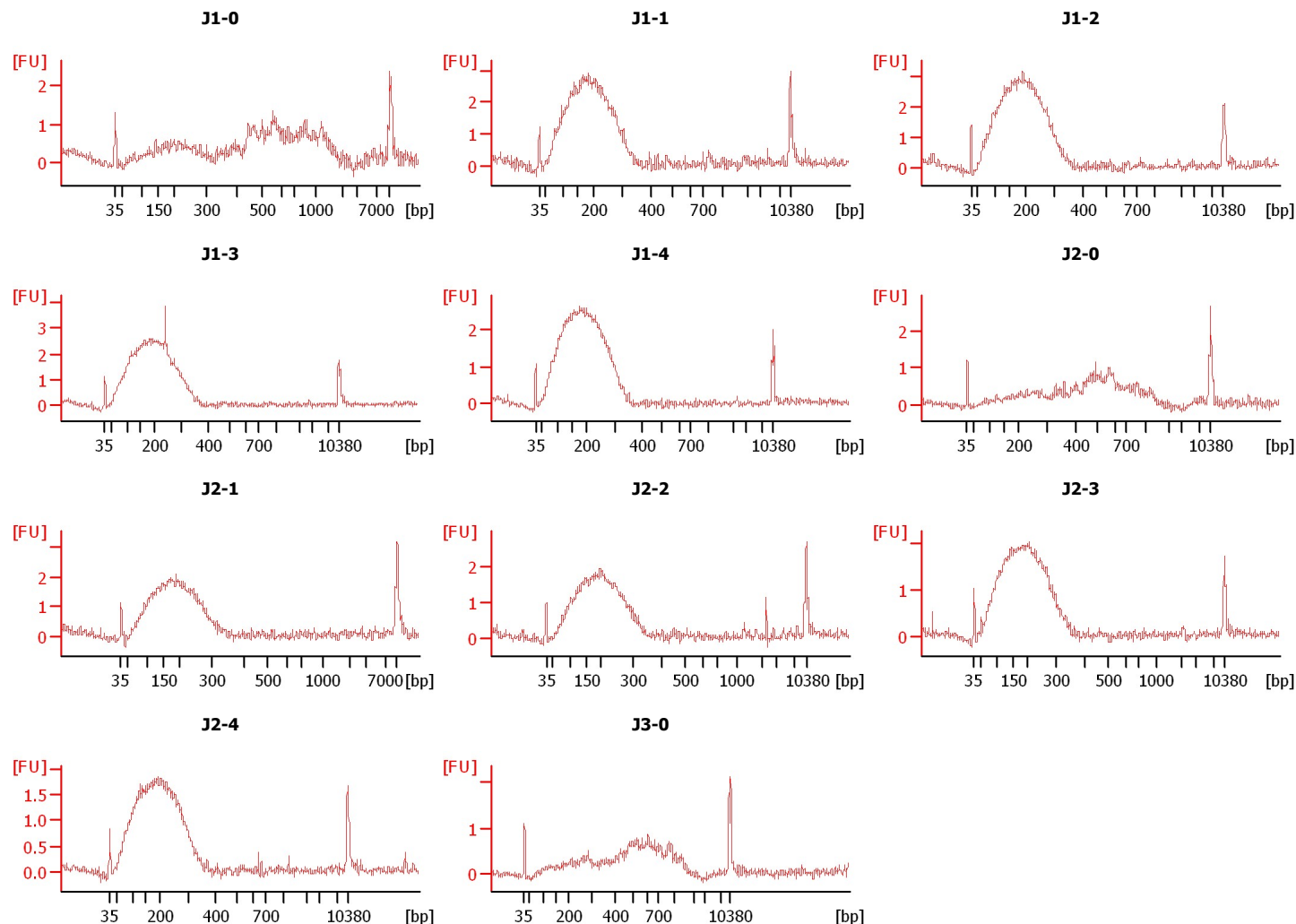
Instrument Name: Bioanalyzer  
Serial#: DE20901668  
Firmware: C.01.069  
Type: G2938B

#### 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  
Data Path: C:\...gh Sensitivity DNA Assay\_DE20901668\_2014-08-07\_16-08-13.xad

Created: 8/7/2014 4:08:12 PM  
Modified: 8/8/2014 9:11:40 AM

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

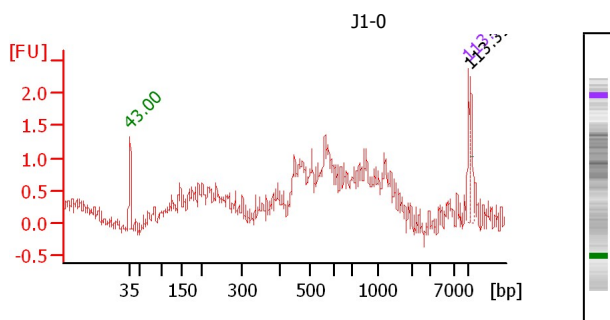
| Sample Name | Sample Comment | Rest. Digest             | Status | Observation | Result Label | Result Color |
|-------------|----------------|--------------------------|--------|-------------|--------------|--------------|
| J1-0        |                | <input type="checkbox"/> | ✓      |             |              |              |
| J1-1        |                | <input type="checkbox"/> | ✓      |             |              |              |
| J1-2        |                | <input type="checkbox"/> | ✓      |             |              |              |
| J1-3        |                | <input type="checkbox"/> | ✓      |             |              |              |
| J1-4        |                | <input type="checkbox"/> | ✓      |             |              |              |
| J2-0        |                | <input type="checkbox"/> | ✓      |             |              |              |
| J2-1        |                | <input type="checkbox"/> | ✓      |             |              |              |
| J2-2        |                | <input type="checkbox"/> | ✓      |             |              |              |
| J2-3        |                | <input type="checkbox"/> | ✓      |             |              |              |
| J2-4        |                | <input type="checkbox"/> | ✓      |             |              |              |
| J3-0        |                | <input type="checkbox"/> | ✓      |             |              |              |
| Ladder      |                | <input type="checkbox"/> | ✓      |             |              |              |

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

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...gh Sensitivity DNA Assay\_DE20901668\_2014-08-07\_16-08-13.xad

Created: 8/7/2014 4:08:12 PM  
 Modified: 8/8/2014 9:11:40 AM

### Electropherogram Summary



#### Peak table for sample 1 :

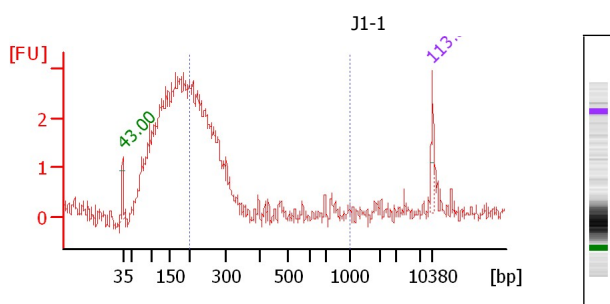
**J1-0**

| Peak | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations |
|------|-----------|---------------|-------------------|--------------|
| 1    | 35        | 125.00        | 5,411.3           | Lower Marker |
| 2    | 10,380    | 75.00         | 10.9              | Upper Marker |
| 3    | 10,815    | 0.00          | 0.0               |              |

#### Overall Results for sample 1 :

**J1-0**

Number of peaks found: 1  
 Noise: 0.1



#### Peak table for sample 2 :

**J1-1**

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

#### Overall Results for sample 2 :

**J1-1**

Number of peaks found: 0  
 Noise: 0.2  
 Corr. Area 1: 26.1

#### Region table for sample 2 :

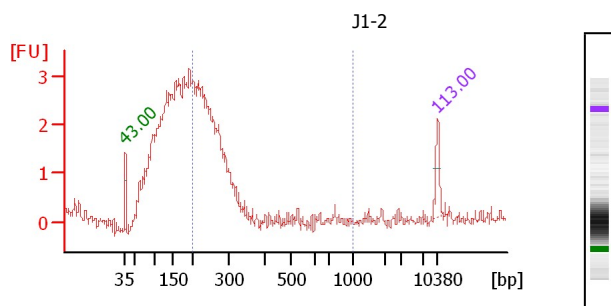
**J1-1**

| From [bp] | To [bp] | Corr. Area | % of Total | Average Size [bp] | Size distribution in CV [%] | Conc. [pg/μl] | Molarity [pmol/l] | Color |
|-----------|---------|------------|------------|-------------------|-----------------------------|---------------|-------------------|-------|
| 200       | 1,000   | 26.1       | 38         | 258               | 29.7                        | 2,721.54      | 16,637.7          | Blue  |

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...gh Sensitivity DNA Assay\_DE20901668\_2014-08-07\_16-08-13.xad

Created: 8/7/2014 4:08:12 PM  
 Modified: 8/8/2014 9:11:40 AM

### Electropherogram Summary Continued ...



#### Peak table for sample 3 :

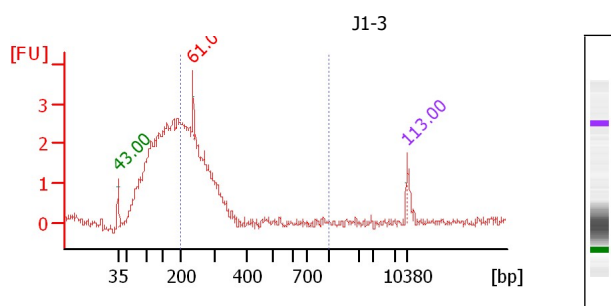
| Peak | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations |
|------|-----------|---------------|-------------------|--------------|
| 1    | 35        | 125.00        | 5,411.3           | Lower Marker |
| 2    | 10,380    | 75.00         | 10.9              | Upper Marker |

#### Overall Results for sample 3 : J1-2

Number of peaks found: 0  
 Noise: 0.1  
 Corr. Area 1: 29.1

#### Region table for sample 3 : J1-2

| From [bp] | To [bp] | Corr. Area | % of Total | Average Size [bp] | Size distribution in CV [%] | Conc. [pg/μl] | Molarity [pmol/l] | Color |
|-----------|---------|------------|------------|-------------------|-----------------------------|---------------|-------------------|-------|
| 200       | 1,000   | 29.1       | 39         | 252               | 20.3                        | 2,167.03      | 13,277.7          | Blue  |



#### Peak table for sample 4 :

| Peak | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations  |
|------|-----------|---------------|-------------------|---------------|
| 1    | 35        | 125.00        | 5,411.3           | Lower Marker  |
| 2    | 238       | 152.11        | 969.2             | excluded peak |
| 3    | 10,380    | 75.00         | 10.9              | Upper Marker  |

#### Overall Results for sample 4 : J1-3

Number of peaks found: 0  
 Noise: 0.1  
 Corr. Area 1: 27.7

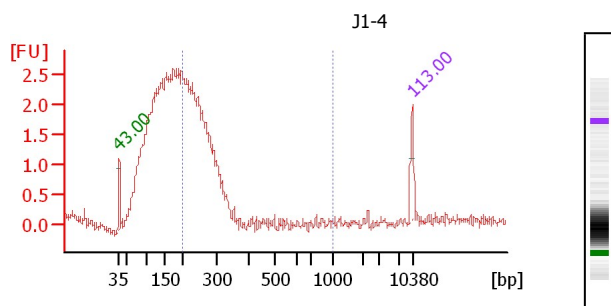
#### Region table for sample 4 : J1-3

| From [bp] | To [bp] | Corr. Area | % of Total | Average Size [bp] | Size distribution in CV [%] | Conc. [pg/μl] | Molarity [pmol/l] | Color |
|-----------|---------|------------|------------|-------------------|-----------------------------|---------------|-------------------|-------|
| 200       | 1,000   | 27.7       | 41         | 255               | 19.9                        | 5,188.64      | 31,484.4          | Blue  |

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...gh Sensitivity DNA Assay\_DE20901668\_2014-08-07\_16-08-13.xad

Created: 8/7/2014 4:08:12 PM  
 Modified: 8/8/2014 9:11:40 AM

### Electropherogram Summary Continued ...



#### Peak table for sample 5 :

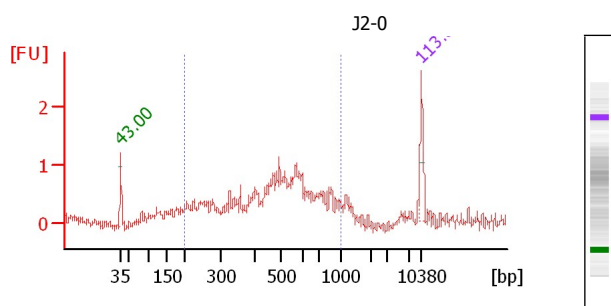
| Peak | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations |
|------|-----------|---------------|-------------------|--------------|
| 1    | 35        | 125.00        | 5,411.3           | Lower Marker |
| 2    | 10,380    | 75.00         | 10.9              | Upper Marker |

#### Overall Results for sample 5 : J1-4

Number of peaks found: 0  
 Noise: 0.1  
 Corr. Area 1: 25.7

#### Region table for sample 5 : J1-4

| From [bp] | To [bp] | Corr. Area | % of Total | Average Size [bp] | Size distribution in CV [%] | Conc. [pg/μl] | Molarity [pmol/l] | Color |
|-----------|---------|------------|------------|-------------------|-----------------------------|---------------|-------------------|-------|
| 200       | 1,000   | 25.7       | 39         | 252               | 17.1                        | 2,795.41      | 17,066.7          | Blue  |



#### Peak table for sample 6 :

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

#### Overall Results for sample 6 : J2-0

Number of peaks found: 0  
 Noise: 0.1  
 Corr. Area 1: 21.1

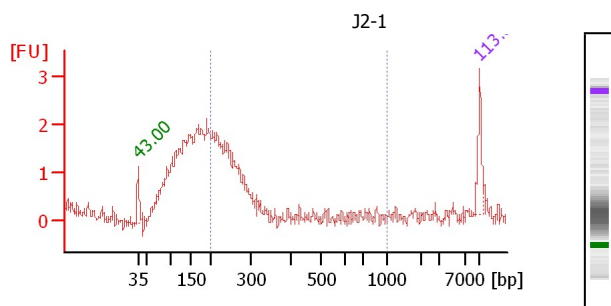
#### Region table for sample 6 : J2-0

| From [bp] | To [bp] | Corr. Area | % of Total | Average Size [bp] | Size distribution in CV [%] | Conc. [pg/μl] | Molarity [pmol/l] | Color |
|-----------|---------|------------|------------|-------------------|-----------------------------|---------------|-------------------|-------|
| 200       | 1,000   | 21.1       | 77         | 506               | 36.1                        | 1,242.01      | 4,620.8           | Blue  |

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...gh Sensitivity DNA Assay\_DE20901668\_2014-08-07\_16-08-13.xad

Created: 8/7/2014 4:08:12 PM  
 Modified: 8/8/2014 9:11:40 AM

### Electropherogram Summary Continued ...



#### Peak table for sample 7 :

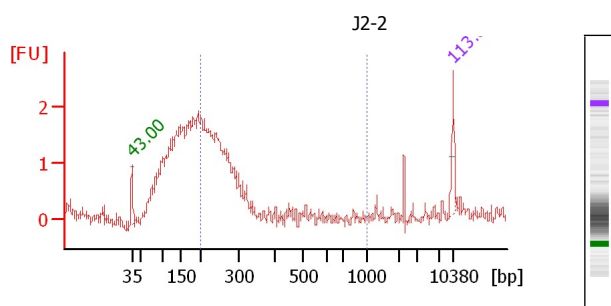
| Peak | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations |
|------|-----------|---------------|-------------------|--------------|
| 1    | 35        | 125.00        | 5,411.3           | Lower Marker |
| 2    | 10,380    | 75.00         | 10.9              | Upper Marker |

#### Overall Results for sample 7 : J2-1

Number of peaks found: 0  
 Noise: 0.2  
 Corr. Area 1: 13.1

#### Region table for sample 7 : J2-1

| From To [bp] | Corr. Area [bp] | % of Total | Average Size [bp] | Size distribution in CV [%] | Conc. [pg/μl] | Molarity [pmol/l] | Color |
|--------------|-----------------|------------|-------------------|-----------------------------|---------------|-------------------|-------|
| 200 1,000    | 13.1            | 36         | 243               | 19.6                        | 759.21        | 4,800.4           | Blue  |



#### Peak table for sample 8 :

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

#### Overall Results for sample 8 : J2-2

Number of peaks found: 0  
 Noise: 0.1  
 Corr. Area 1: 15.8

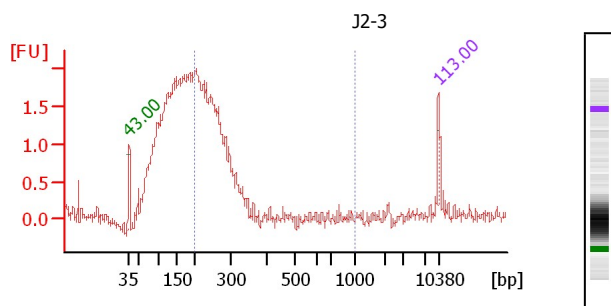
#### Region table for sample 8 : J2-2

| From To [bp] | Corr. Area [bp] | % of Total | Average Size [bp] | Size distribution in CV [%] | Conc. [pg/μl] | Molarity [pmol/l] | Color |
|--------------|-----------------|------------|-------------------|-----------------------------|---------------|-------------------|-------|
| 200 1,000    | 15.8            | 41         | 248               | 14.8                        | 1,412.73      | 8,734.3           | Blue  |

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...gh Sensitivity DNA Assay\_DE20901668\_2014-08-07\_16-08-13.xad

Created: 8/7/2014 4:08:12 PM  
 Modified: 8/8/2014 9:11:40 AM

### Electropherogram Summary Continued ...



#### Peak table for sample 9 :

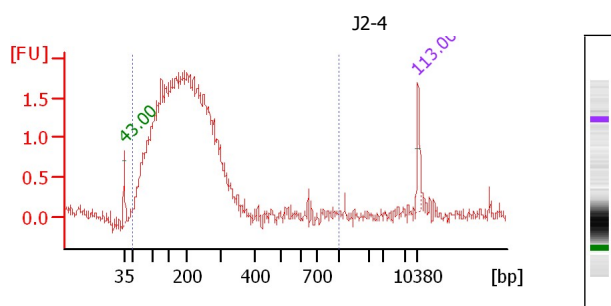
| Peak | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations |
|------|-----------|---------------|-------------------|--------------|
| 1    | 35        | 125.00        | 5,411.3           | Lower Marker |
| 2    | 10,380    | 75.00         | 10.9              | Upper Marker |

#### Overall Results for sample 9 : J2-3

Number of peaks found: 0  
 Noise: 0.1  
 Corr. Area 1: 19.2

#### Region table for sample 9 : J2-3

| From [bp] | To [bp] | Corr. Area | % of Total | Average Size [bp] | Size distribution in CV [%] | Conc. [pg/μl] | Molarity [pmol/l] | Color |
|-----------|---------|------------|------------|-------------------|-----------------------------|---------------|-------------------|-------|
| 200       | 1,000   | 19.2       | 39         | 252               | 19.9                        | 4,628.26      | 28,314.3          | Blue  |



#### Peak table for sample 10 :

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

#### Overall Results for sample 10 : J2-4

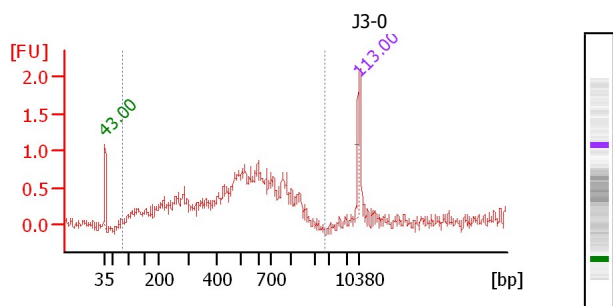
Number of peaks found: 0  
 Noise: 0.1  
 Corr. Area 1: 46.4

#### Region table for sample 10 : J2-4

| From [bp] | To [bp] | Corr. Area | % of Total | Average Size [bp] | Size distribution in CV [%] | Conc. [pg/μl] | Molarity [pmol/l] | Color |
|-----------|---------|------------|------------|-------------------|-----------------------------|---------------|-------------------|-------|
| 49        | 1,000   | 46.4       | 98         | 196               | 41.8                        | 6,046.87      | 58,466.6          | Blue  |

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...gh Sensitivity DNA Assay\_DE20901668\_2014-08-07\_16-08-13.xad

Created: 8/7/2014 4:08:12 PM  
Modified: 8/8/2014 9:11:40 AM

**Electropherogram Summary Continued ...****Peak table for sample 11 :**

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

**Overall Results for sample 11 :**

**J3-0**  
Number of peaks found: 0  
Noise: 0.1  
Corr. Area 1: 21.3

**Region table for sample 11 :**

| From [bp] | To [bp] | Corr. Area | % of Total | Average Size [bp] | Size distribution in CV [%] | Conc. [pg/μl] | Molarity [pmol/l] | Color |
|-----------|---------|------------|------------|-------------------|-----------------------------|---------------|-------------------|-------|
| 78        | 2,646   | 21.3       | 93         | 544               | 54.1                        | 3,253.57      | 15,128.7          | Blue  |