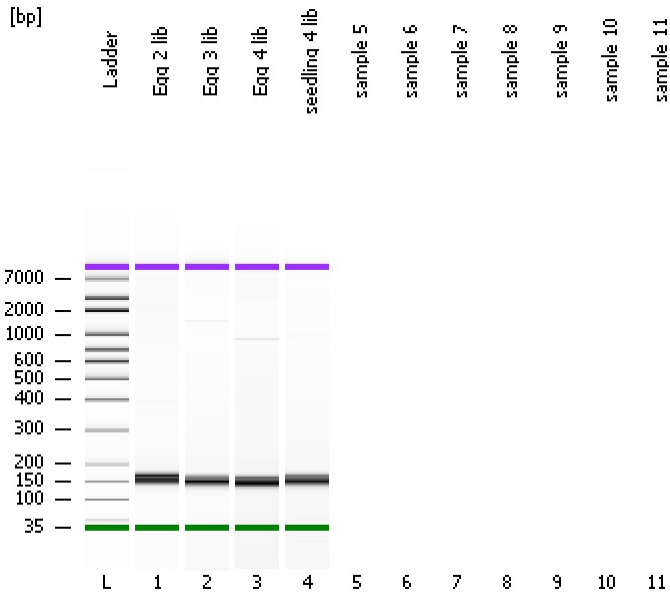


Assay Class: High Sensitivity DNA Assay  
Data Path: C:\... bioanalyzer\2100 expert\data\2017-01-26\2017-01-26\_002.xad

Created: 1/26/2017 1:13:41 PM  
Modified: 1/26/2017 1:35:01 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

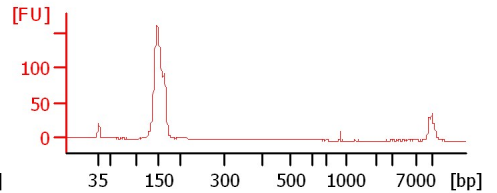
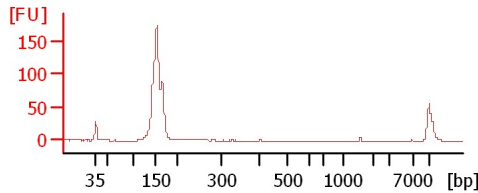
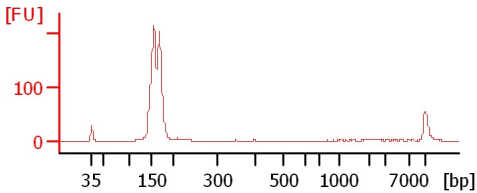
Chip Information:

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

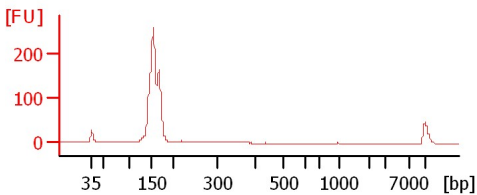
**Egg 2 lib**

**Egg 3 lib**

**Egg 4 lib**



**seedling 4 lib**



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-01-26\2017-01-26\_002.xad

Created: 1/26/2017 1:13:41 PM  
 Modified: 1/26/2017 1:35:01 PM

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

| Sample Name    | Sample Comment | Rest. Digest             | Status | Observation | Result Label | Result Color |
|----------------|----------------|--------------------------|--------|-------------|--------------|--------------|
| Egg 2 lib      |                | <input type="checkbox"/> | ✓      |             |              |              |
| Egg 3 lib      |                | <input type="checkbox"/> | ✓      |             |              |              |
| Egg 4 lib      |                | <input type="checkbox"/> | ✓      |             |              |              |
| seedling 4 lib |                | <input type="checkbox"/> | ✓      |             |              |              |
| sample 5       |                | <input type="checkbox"/> |        |             |              |              |
| sample 6       |                | <input type="checkbox"/> |        |             |              |              |
| sample 7       |                | <input type="checkbox"/> |        |             |              |              |
| sample 8       |                | <input type="checkbox"/> |        |             |              |              |
| sample 9       |                | <input type="checkbox"/> |        |             |              |              |
| sample 10      |                | <input type="checkbox"/> |        |             |              |              |
| sample 11      |                | <input type="checkbox"/> |        |             |              |              |
| Ladder         |                | <input type="checkbox"/> | ✓      |             |              |              |

**Chip Lot #**

**Reagent Kit Lot #**

**Chip Comments :**

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\... bioanalyzer\2100 expert\data\2017-01-26\2017-01-26\_002.xad

Created: 1/26/2017 1:13:41 PM  
Modified: 1/26/2017 1:35:01 PM

**Electrophoresis Assay Details**

**General Analysis Settings**

Number of Available Sample and Ladder Wells (Max.) : 12  
Minimum Visible Range [s] : 32  
Maximum Visible Range [s] : 138  
Start Analysis Time Range [s] : 33  
End Analysis Time Range [s] : 137.5  
Ladder Concentration [pg/μl] : 1950  
Uses Standard Area for Ladder Fragments  
Lower Marker Concentration [pg/μl] : 125  
Upper Marker Concentration [pg/μl] : 75  
Used Upper Marker for Quantitation  
Standard Curve Fit is Point to Point  
Show Data Aligned to Lower and Upper Marker

**Integrator Settings**

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

**Filter Settings**

Filter Width [s] : 0.5  
Polynomial Order : 4

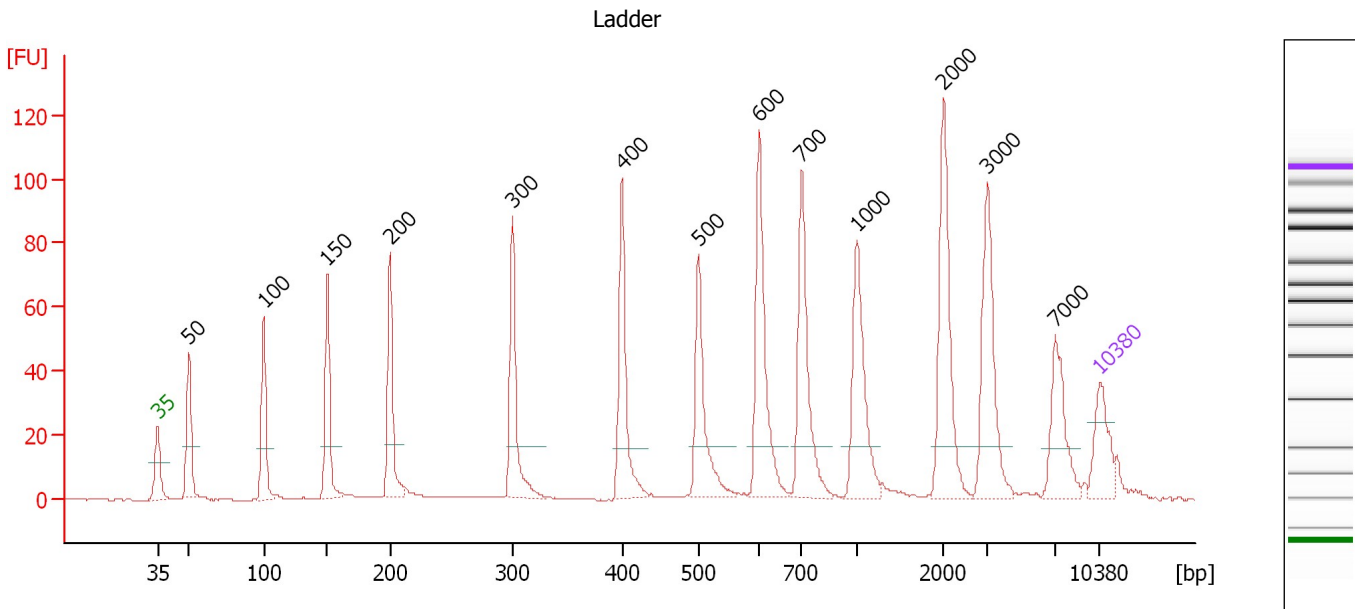
**Ladder**

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

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-01-26\2017-01-26\_002.xad

Created: 1/26/2017 1:13:41 PM  
 Modified: 1/26/2017 1:35:01 PM

**Electropherogram Summary**



**Overall Results for Ladder**

Noise: 0.2

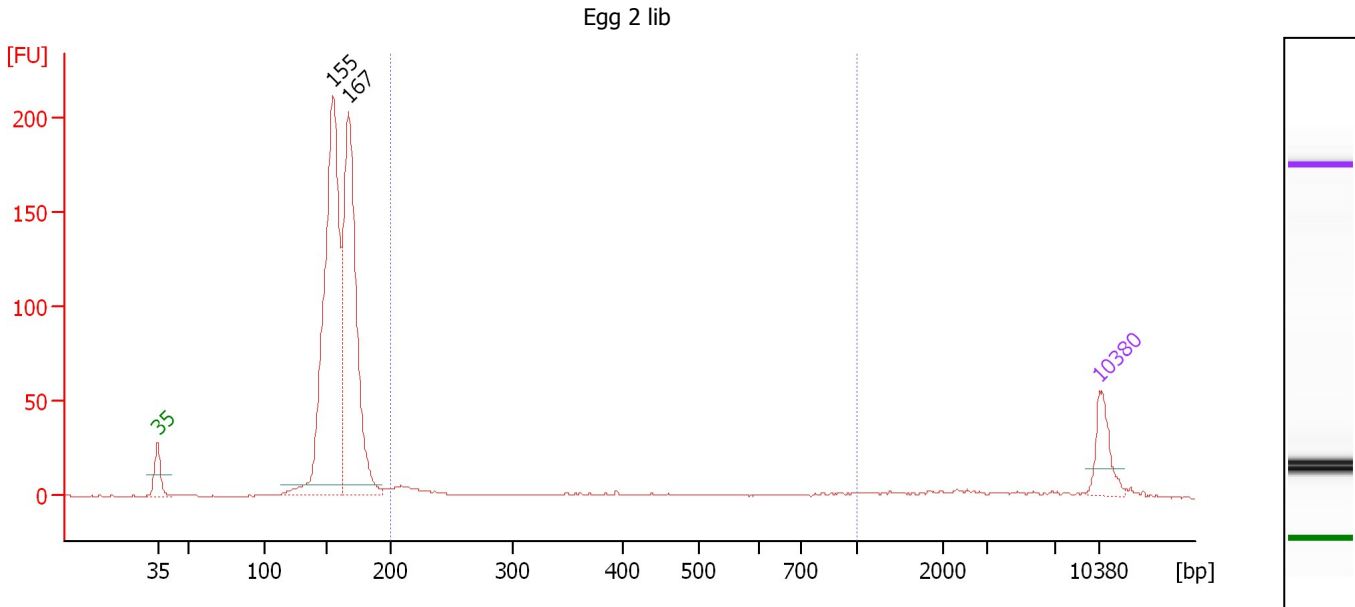
**Peak table for Ladder**

| Peak | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations | Aligned Migration Time [s] |
|------|-----------|---------------|-------------------|--------------|----------------------------|
| 1    | 35        | 125.00        | 5,411.3           | Lower Marker | 43.00                      |
| 2    | 50        | 150.00        | 4,545.5           | Ladder Peak  | 45.34                      |
| 3    | 100       | 150.00        | 2,272.7           | Ladder Peak  | 50.90                      |
| 4    | 150       | 150.00        | 1,515.2           | Ladder Peak  | 55.58                      |
| 5    | 200       | 150.00        | 1,136.4           | Ladder Peak  | 60.27                      |
| 6    | 300       | 150.00        | 757.6             | Ladder Peak  | 69.39                      |
| 7    | 400       | 150.00        | 568.2             | Ladder Peak  | 77.49                      |
| 8    | 500       | 150.00        | 454.5             | Ladder Peak  | 83.20                      |
| 9    | 600       | 150.00        | 378.8             | Ladder Peak  | 87.73                      |
| 10   | 700       | 150.00        | 324.7             | Ladder Peak  | 90.84                      |
| 11   | 1,000     | 150.00        | 227.3             | Ladder Peak  | 94.97                      |
| 12   | 2,000     | 150.00        | 113.6             | Ladder Peak  | 101.38                     |
| 13   | 3,000     | 150.00        | 75.8              | Ladder Peak  | 104.64                     |
| 14   | 7,000     | 150.00        | 32.5              | Ladder Peak  | 109.69                     |
| 15   | 10,380    | 75.00         | 10.9              | Upper Marker | 113.00                     |

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-01-26\2017-01-26\_002.xad

Created: 1/26/2017 1:13:41 PM  
 Modified: 1/26/2017 1:35:01 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 1 : Egg 2 lib**

Number of peaks found: 2                      Corr. Area 1: 93.3  
 Noise: 0.3

**Peak table for sample 1 : Egg 2 lib**

| 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    | 155       | 1,236.76      | 12,074.8          |              | 56.07                      |
| 3    | 167       | 961.64        | 8,708.4           |              | 57.21                      |
| 4    | 10,380    | 75.00         | 10.9              | Upper Marker | 113.00                     |

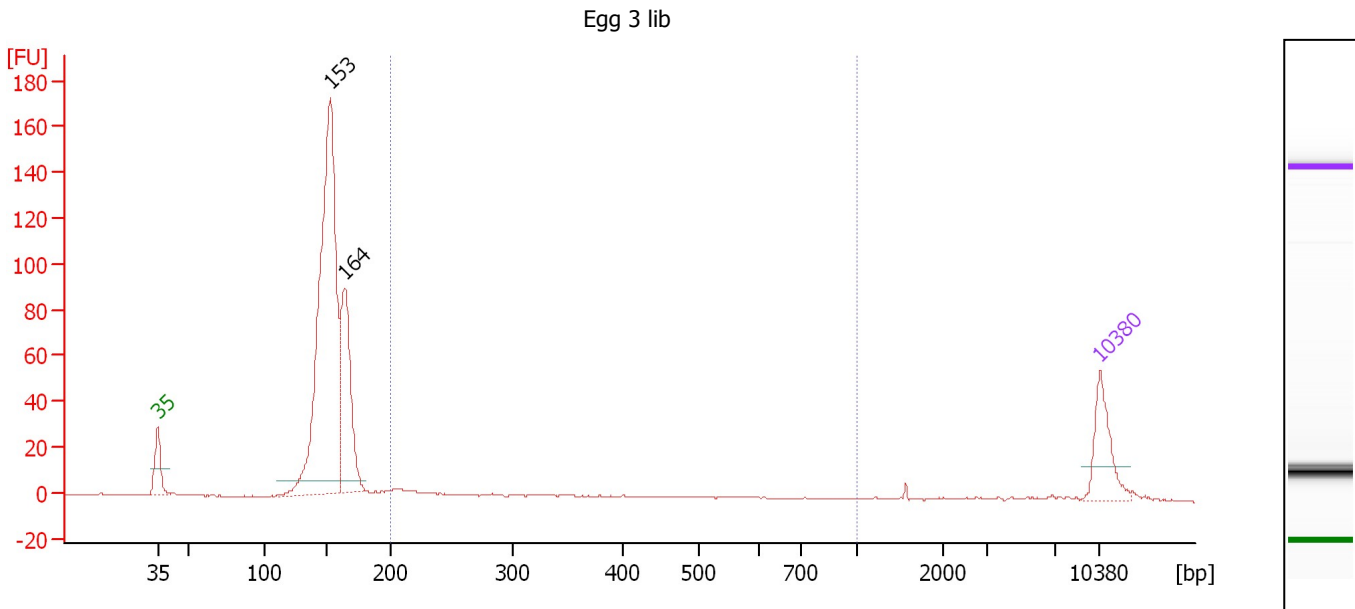
**Region table for sample 1 : Egg 2 lib**

| 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   | 444               | 93.3       | 866.7             | 186.67               | 9          | 48.9                        |

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-01-26\2017-01-26\_002.xad

Created: 1/26/2017 1:13:41 PM  
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**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : Egg 3 lib**

Number of peaks found: 2                      Corr. Area 1: 28.7  
 Noise: 0.2

**Peak table for sample 2 : Egg 3 lib**

| 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    | 153       | 970.99        | 9,638.6           |              | 55.83                      |
| 3    | 164       | 290.25        | 2,677.9           |              | 56.92                      |
| 4    | 10,380    | 75.00         | 10.9              | Upper Marker | 113.00                     |

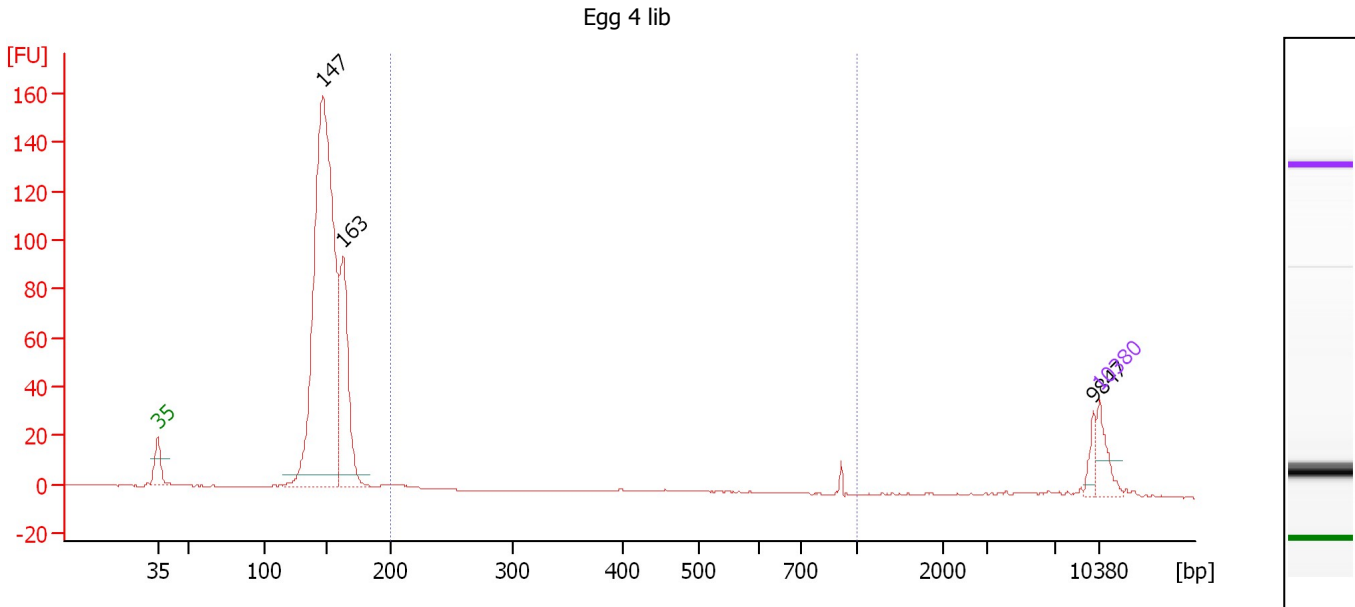
**Region table for sample 2 : Egg 3 lib**

| 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   | 314               | 28.7       | 299.9             | 53.46                | 5          | 38.8                        |

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-01-26\2017-01-26\_002.xad

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 Modified: 1/26/2017 1:35:01 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : Egg 4 lib**

Number of peaks found: 3                      Corr. Area 1: 11.0  
 Noise: 0.2

**Peak table for sample 3 : Egg 4 lib**

| 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    | 147       | 2,290.15      | 23,665.9          |              | 55.27                      |
| 3    | 163       | 582.36        | 5,420.9           |              | 56.78                      |
| 4    | 9,847     | 39.34         | 6.1               |              | 112.48                     |
| 5    | 10,380    | 75.00         | 10.9              | Upper Marker | 113.00                     |

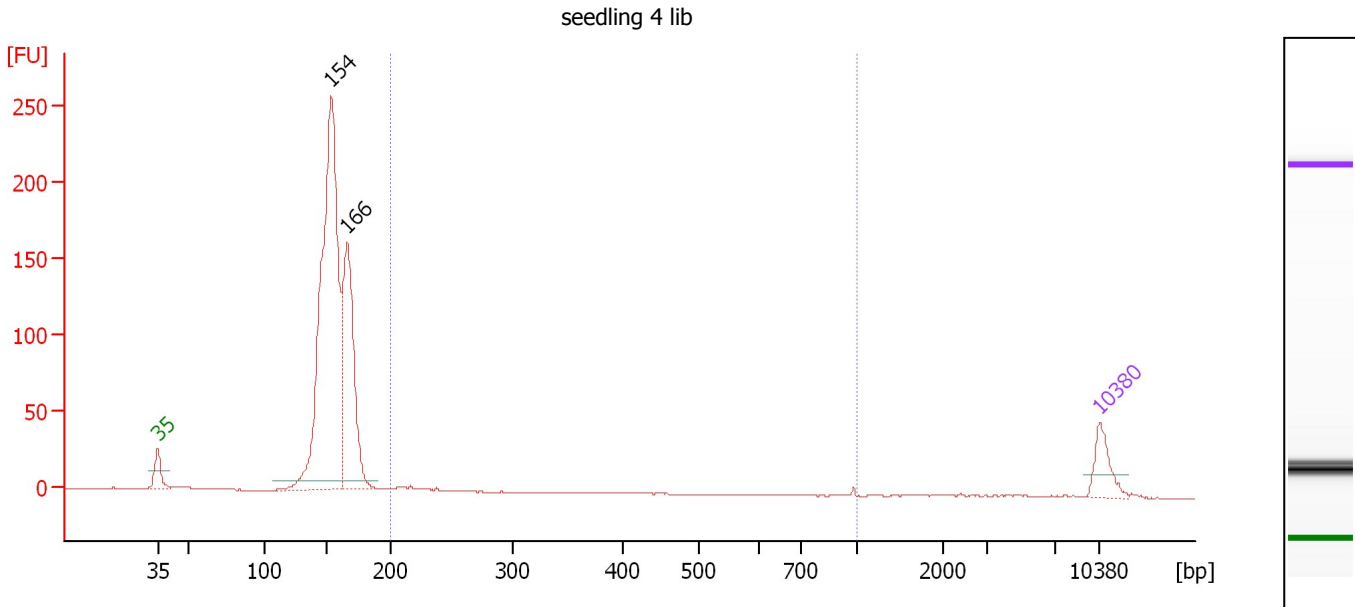
**Region table for sample 3 : Egg 4 lib**

| 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   | 521               | 11.0       | 198.9             | 39.90                | 2          | 57.4                        |

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-01-26\2017-01-26\_002.xad

Created: 1/26/2017 1:13:41 PM  
 Modified: 1/26/2017 1:35:01 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : seedling 4 lib**

Number of peaks found: 2                      Corr. Area 1: 17.0  
 Noise: 0.1

**Peak table for sample 4 : seedling 4 lib**

| 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    | 154       | 1,684.95      | 16,620.5          |              | 55.92                      |
| 3    | 166       | 685.06        | 6,247.8           |              | 57.10                      |
| 4    | 10,380    | 75.00         | 10.9              | Upper Marker | 113.00                     |

**Region table for sample 4 : seedling 4 lib**

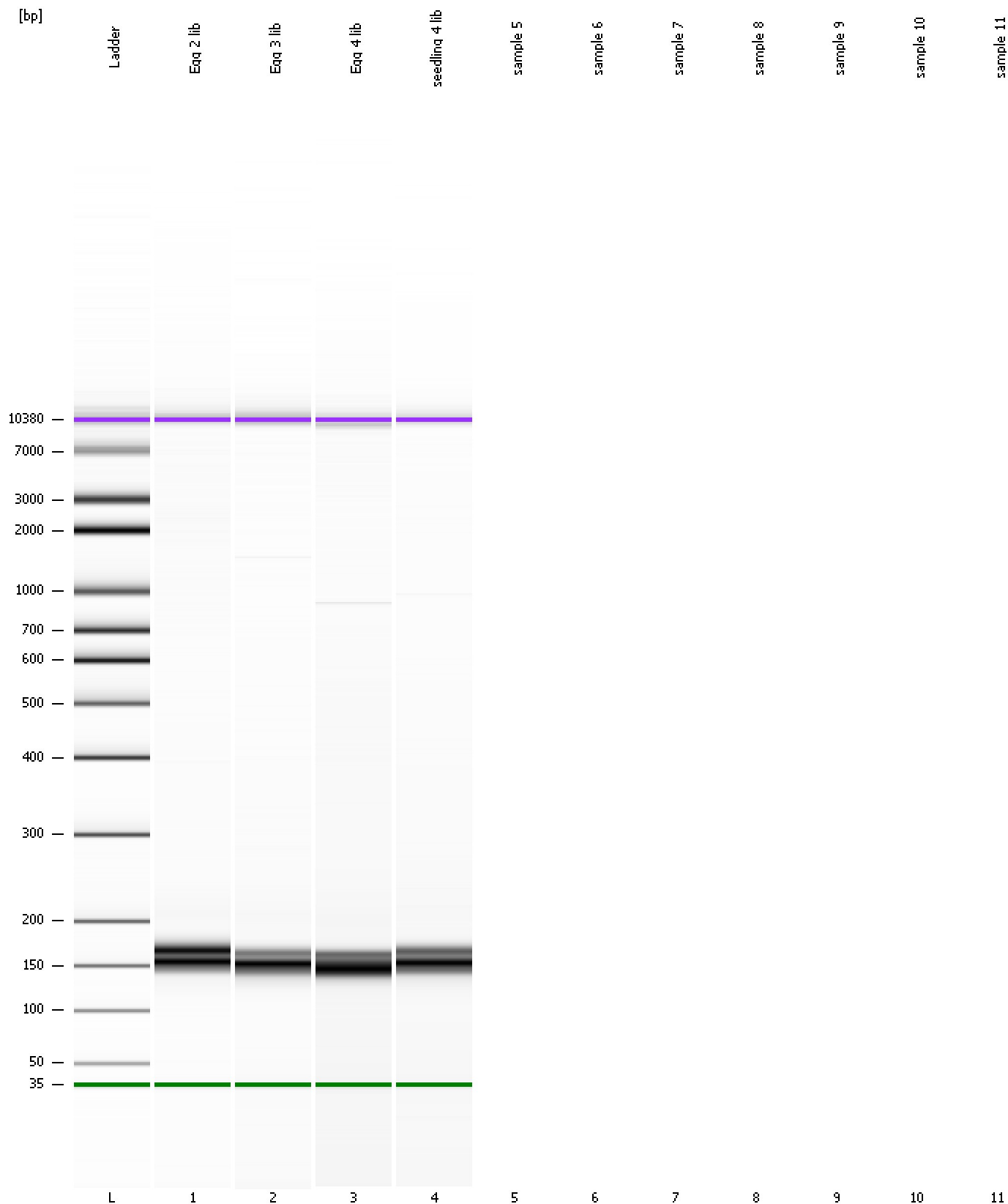
| From [bp] | To [bp] | Average Size [bp] | Corr. Area | Molarity [pmol/l] | Co Conc. lor [pg/μl] | % of Total | Size distribution in CV [%] |
|-----------|---------|-------------------|------------|-------------------|----------------------|------------|-----------------------------|
| 200       | 1,000   | 317               | 17.0       | 243.6             | 38.63                | 2          | 74.4                        |



Assay Class: High Sensitivity DNA Assay  
Data Path: C:\... bioanalyzer\2100 expert\data\2017-01-26\2017-01-26\_002.xad

Created: 1/26/2017 1:13:41 PM  
Modified: 1/26/2017 1:35:01 PM

**Gel Image**



Assay Class: High Sensitivity DNA Assay  
Data Path: C:\... bioanalyzer\2100 expert\data\2017-01-26\2017-01-26\_002.xad

Created: 1/26/2017 1:13:41 PM  
Modified: 1/26/2017 1:35:01 PM

**Invalid Samples**

Sample 5 has not been run, no results available.

Sample 6 has not been run, no results available.

Sample 7 has not been run, no results available.

Sample 8 has not been run, no results available.

Sample 9 has not been run, no results available.

Sample 10 has not been run, no results available.

Sample 11 has not been run, no results available.

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-01-26\2017-01-26\_002.xad

Created: 1/26/2017 1:13:41 PM  
 Modified: 1/26/2017 1:35:01 PM

**Run Logbook**

| Description  | Number | Source     | Category | Sub Category | Time                 | Time Zone                           | User     | Host     |
|--|--------|------------|----------|--------------|----------------------|-------------------------------------|----------|----------|
| Run ended on port 1 (Number of wells acquired: 5)  |        | Instrument | Run      |              | 1/26/2017 1:34:59 PM | (GMT --08:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Run started on port 1 (File: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\data\2017-01-26\2017-01-26_002.xad) |        | Instrument | Run      |              | 1/26/2017 1:13:46 PM | (GMT --08:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Product Number : G2938B  |        | Instrument | Run      |              | 1/26/2017 1:13:46 PM | (GMT --08:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Name :   |        | Instrument | Run      |              | 1/26/2017 1:13:46 PM | (GMT --08:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Vendor : Agilent Technologies  |        | Instrument | Run      |              | 1/26/2017 1:13:46 PM | (GMT --08:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Serial# : DE13701086   |        | Instrument | Run      |              | 1/26/2017 1:13:46 PM | (GMT --08:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Firmware : C.01.069  |        | Instrument | Run      |              | 1/26/2017 1:13:46 PM | (GMT --08:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Cartridge : Electrode  |        | Instrument | Run      |              | 1/26/2017 1:13:46 PM | (GMT --08:00) Pacific Standard Time | UC Davis | D8XSMGH1 |