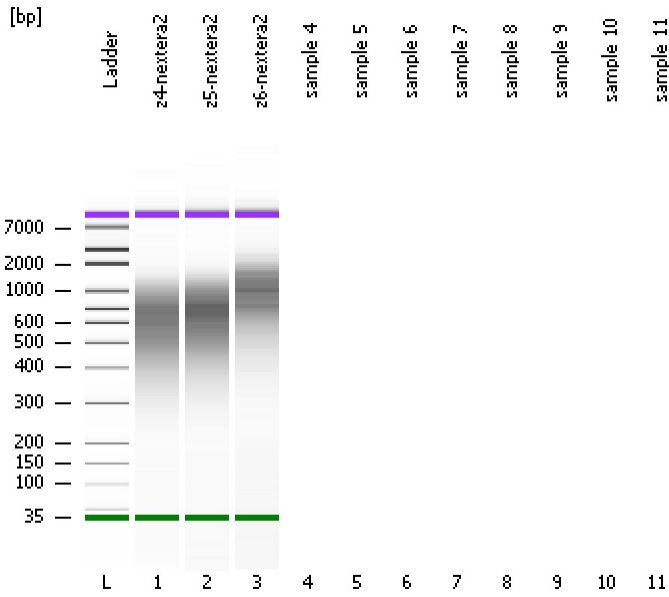


Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2017-10-12\2017-10-12_004.xad

Created: 10/12/2017 3:43:31 PM
Modified: 10/12/2017 4:05:57 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

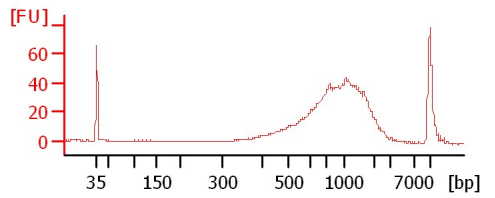
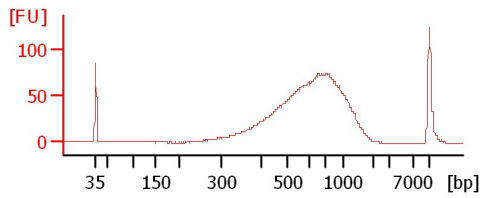
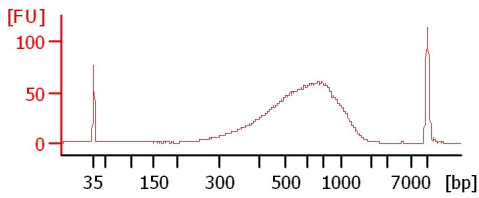
Chip Information:

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

z4-nextera2

z5-nextera2

z6-nextera2



Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2017-10-12\2017-10-12_004.xad

Created: 10/12/2017 3:43:31 PM
Modified: 10/12/2017 4:05:57 PM

Electrophoresis File Run Summary (Chip Summary)

| Sample Name | Sample Comment | Rest. Digest | Status | Observation | Result Label | Result Color |
|-------------|----------------|--------------------------|--------|-------------|--------------|--------------|
| z4-nextera2 | | <input type="checkbox"/> | ✓ | | | |
| z5-nextera2 | | <input type="checkbox"/> | ✓ | | | |
| z6-nextera2 | | <input type="checkbox"/> | ✓ | | | |
| sample 4 | | <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\2017-10-12\2017-10-12_004.xad

Created: 10/12/2017 3:43:31 PM
Modified: 10/12/2017 4:05:57 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/ μ l] : 1950
Uses Standard Area for Ladder Fragments
Lower Marker Concentration [pg/ μ l] : 125
Upper Marker Concentration [pg/ μ 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

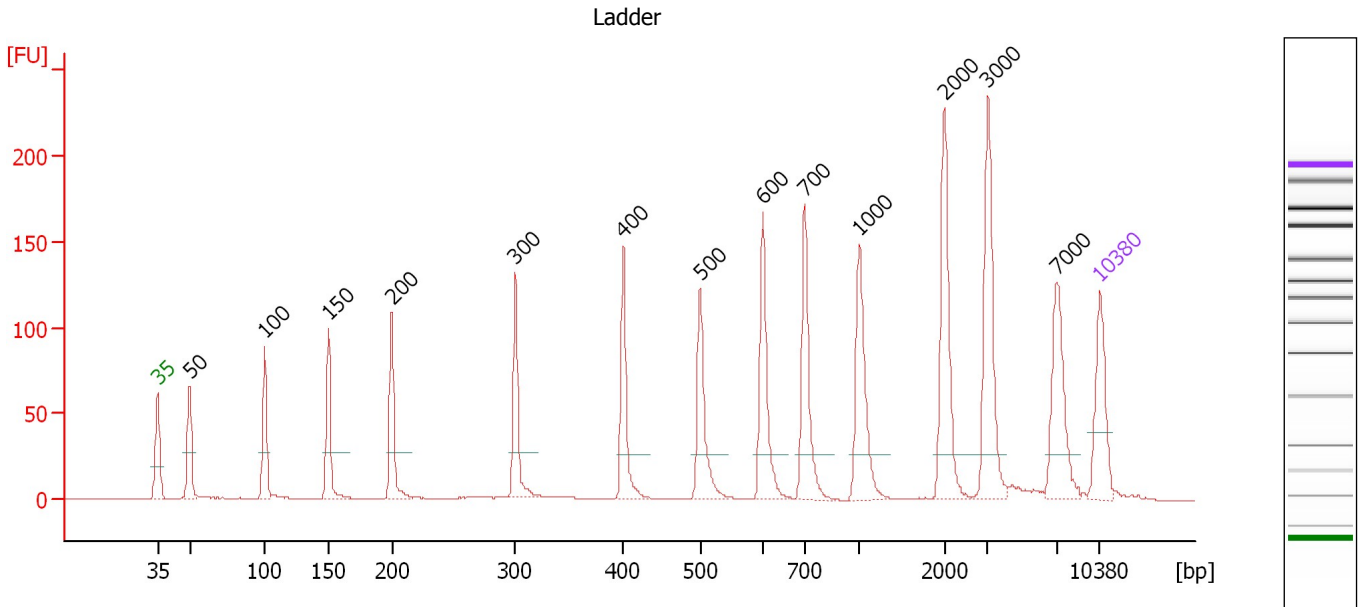
Ladder

| 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:\... bioanalyzer\2100 expert\data\2017-10-12\2017-10-12_004.xad

Created: 10/12/2017 3:43:31 PM
 Modified: 10/12/2017 4:05:57 PM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.1

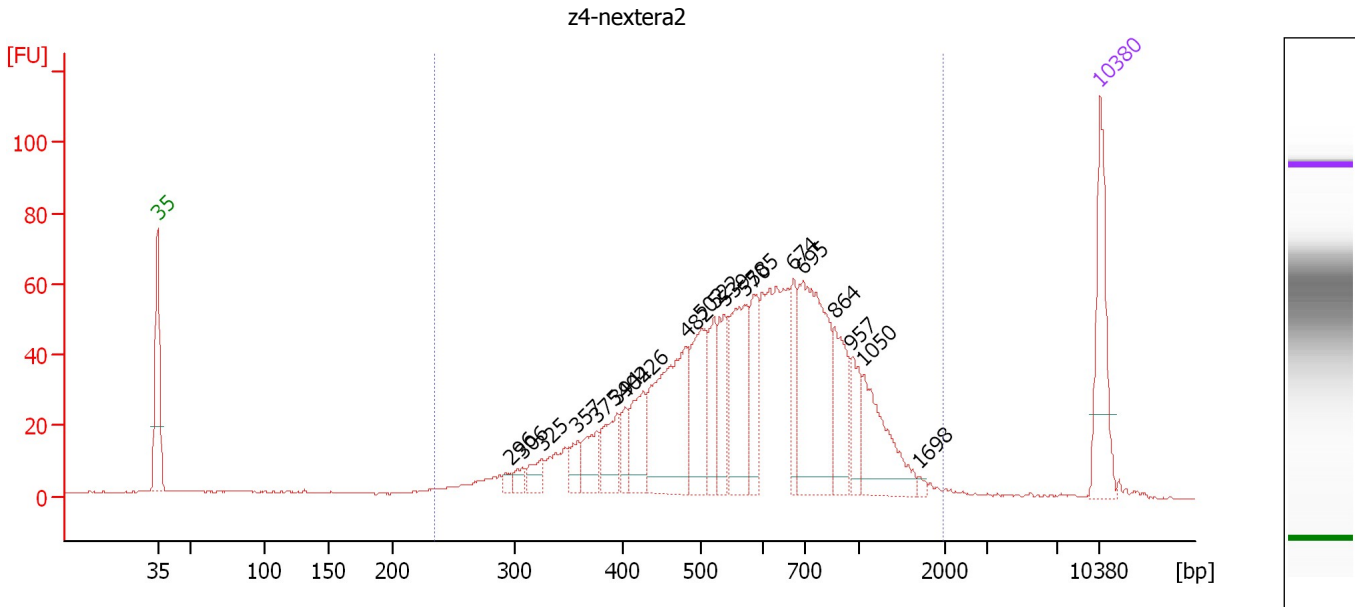
Peak table for Ladder

| 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 | 45.38 |
| 3 | 100 | 150.00 | 2,272.7 | Ladder Peak | 50.96 |
| 4 | 150 | 150.00 | 1,515.2 | Ladder Peak | 55.69 |
| 5 | 200 | 150.00 | 1,136.4 | Ladder Peak | 60.41 |
| 6 | 300 | 150.00 | 757.6 | Ladder Peak | 69.59 |
| 7 | 400 | 150.00 | 568.2 | Ladder Peak | 77.60 |
| 8 | 500 | 150.00 | 454.5 | Ladder Peak | 83.31 |
| 9 | 600 | 150.00 | 378.8 | Ladder Peak | 87.94 |
| 10 | 700 | 150.00 | 324.7 | Ladder Peak | 91.05 |
| 11 | 1,000 | 150.00 | 227.3 | Ladder Peak | 95.14 |
| 12 | 2,000 | 150.00 | 113.6 | Ladder Peak | 101.44 |
| 13 | 3,000 | 150.00 | 75.8 | Ladder Peak | 104.68 |
| 14 | 7,000 | 150.00 | 32.5 | Ladder Peak | 109.76 |
| 15 | 10,380 | 75.00 | 10.9 | Upper Marker | 113.00 |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-10-12\2017-10-12_004.xad

Created: 10/12/2017 3:43:31 PM
 Modified: 10/12/2017 4:05:57 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : z4-nextera2

Number of peaks found: 20 Corr. Area 1: 1,292.2
 Noise: 0.2

Peak table for sample 1 : z4-nextera2

| 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 | 296 | 7.23 | 37.0 | | 69.20 |
| 3 | 306 | 11.47 | 56.8 | | 70.07 |
| 4 | 325 | 19.82 | 92.5 | | 71.56 |
| 5 | 357 | 21.25 | 90.1 | | 74.19 |
| 6 | 375 | 37.74 | 152.4 | | 75.60 |
| 7 | 394 | 48.20 | 185.2 | | 77.14 |
| 8 | 402 | 24.45 | 92.1 | | 77.73 |
| 9 | 426 | 56.50 | 200.9 | | 79.09 |
| 10 | 482 | 169.59 | 533.4 | | 82.26 |
| 11 | 502 | 88.66 | 267.7 | | 83.40 |
| 12 | 522 | 47.46 | 137.6 | | 84.35 |
| 13 | 539 | 54.83 | 154.1 | | 85.12 |
| 14 | 570 | 106.47 | 282.8 | | 86.57 |
| 15 | 585 | 53.57 | 138.7 | | 87.25 |
| 16 | 674 | 45.81 | 103.0 | | 90.24 |
| 17 | 695 | 188.00 | 410.1 | | 90.88 |
| 18 | 864 | 66.13 | 116.0 | | 93.28 |
| 19 | 957 | 34.10 | 54.0 | | 94.55 |
| 20 | 1,050 | 81.64 | 117.8 | | 95.45 |
| 21 | 1,698 | 3.52 | 3.1 | | 99.53 |
| 22 | 10,380 | 75.00 | 10.9 | Upper Marker | 113.00 |

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2017-10-12\2017-10-12_004.xad

Created: 10/12/2017 3:43:31 PM
Modified: 10/12/2017 4:05:57 PM

Electropherogram Summary Continued ...

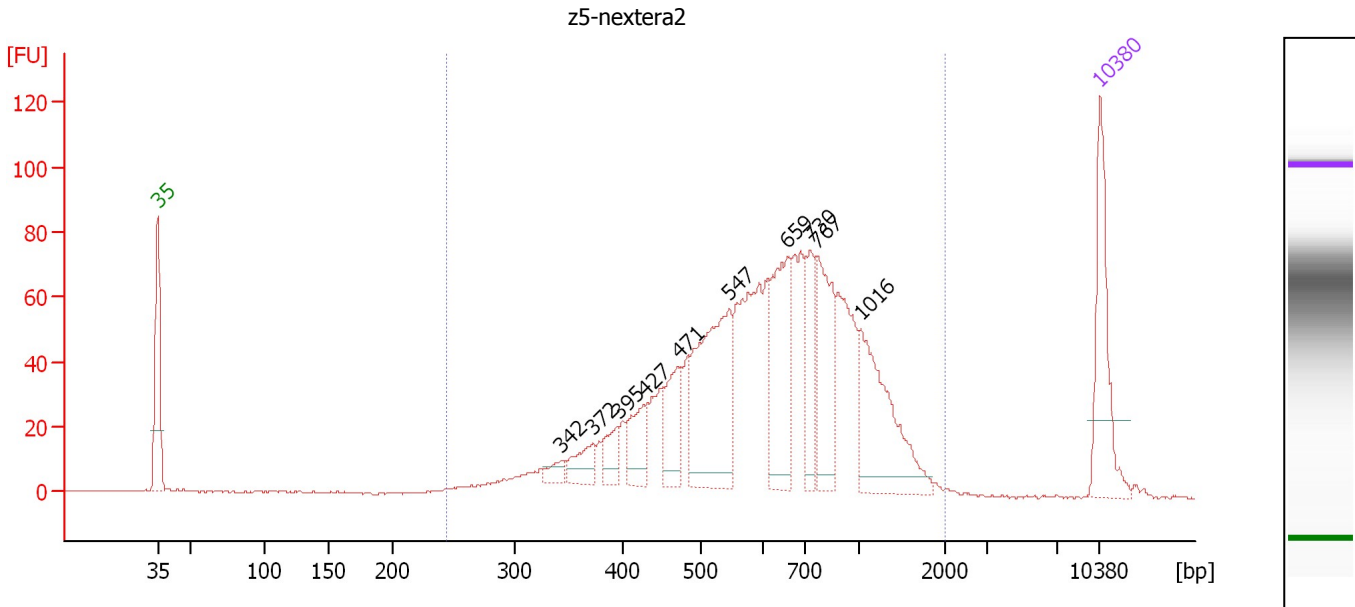
... Region table for sample 1 : z4-nextera2

| From [bp] | To [bp] | Average Size [bp] | Corr. Area | Molarity [pmol/l] | Co Conc. lor [pg/μl] | % of Total | Size distribution in CV [%] |
|-----------|---------|-------------------|------------|-------------------|----------------------|------------|-----------------------------|
| 235 | 1,984 | 641 | 1,292.2 | 4,336.1 | 1,512.14 | 92 | 42.0 |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-10-12\2017-10-12_004.xad

Created: 10/12/2017 3:43:31 PM
 Modified: 10/12/2017 4:05:57 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : z5-nextera2

Number of peaks found: 10 Corr. Area 1: 1,421.9
 Noise: 0.3

Peak table for sample 2 : z5-nextera2

| 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 | 342 | 13.27 | 58.8 | | 72.97 |
| 3 | 372 | 28.83 | 117.3 | | 75.38 |
| 4 | 395 | 25.92 | 99.4 | | 77.20 |
| 5 | 427 | 44.79 | 159.1 | | 79.12 |
| 6 | 471 | 58.33 | 187.5 | | 81.67 |
| 7 | 547 | 174.04 | 482.0 | | 85.49 |
| 8 | 659 | 114.72 | 263.8 | | 89.77 |
| 9 | 730 | 51.75 | 107.4 | | 91.46 |
| 10 | 767 | 98.47 | 194.5 | | 91.96 |
| 11 | 1,016 | 121.81 | 181.7 | | 95.24 |
| 12 | 10,380 | 75.00 | 10.9 | Upper Marker | 113.00 |

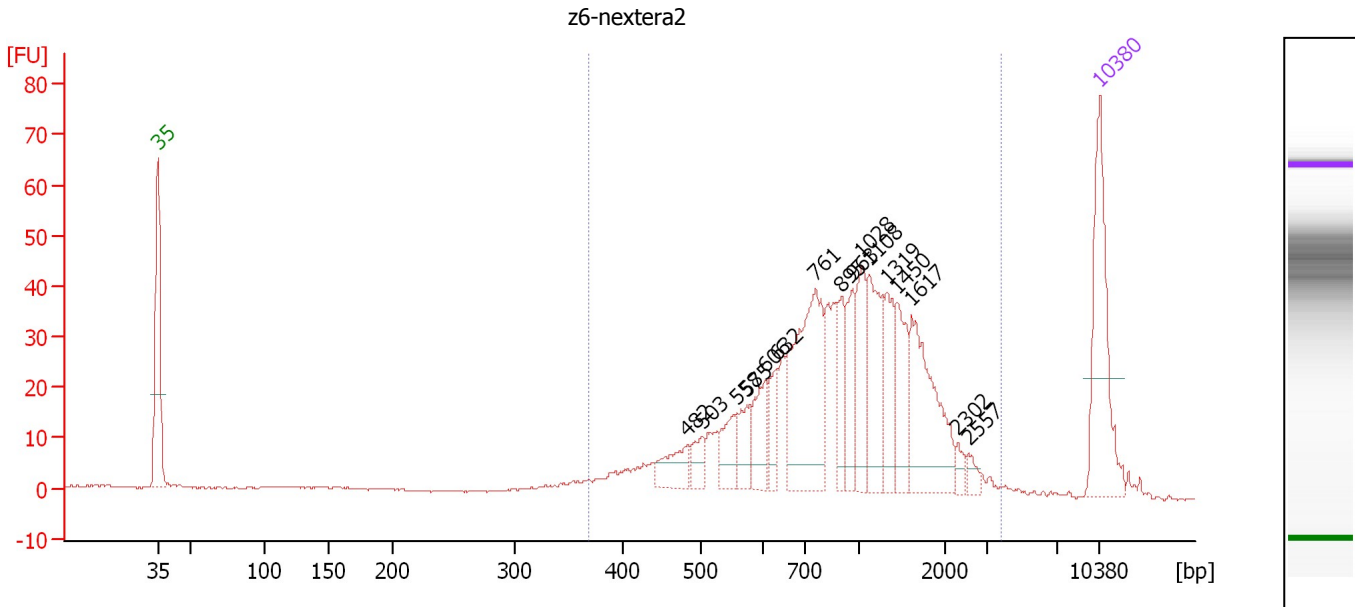
Region table for sample 2 : z5-nextera2

| From [bp] | To [bp] | Average Size [bp] | Corr. Area | Molarity [pmol/l] | Co Conc. lor [pg/μl] | % of Total | Size distribution in CV [%] |
|-----------|---------|-------------------|------------|-------------------|----------------------|------------|-----------------------------|
| 244 | 1,997 | 690 | 1,421.9 | 3,515.1 | 1,320.48 | 97 | 41.8 |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2017-10-12\2017-10-12_004.xad

Created: 10/12/2017 3:43:31 PM
 Modified: 10/12/2017 4:05:57 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : z6-nextera2

Number of peaks found: 16 Corr. Area 1: 667.0
 Noise: 0.2

Peak table for sample 3 : z6-nextera2

| 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 | 482 | 26.13 | 82.1 | | 82.31 |
| 3 | 503 | 15.17 | 45.7 | | 83.45 |
| 4 | 558 | 27.55 | 74.7 | | 86.02 |
| 5 | 575 | 21.81 | 57.4 | | 86.80 |
| 6 | 606 | 33.15 | 82.9 | | 88.12 |
| 7 | 632 | 21.90 | 52.5 | | 88.95 |
| 8 | 761 | 130.30 | 259.4 | | 91.88 |
| 9 | 895 | 32.07 | 54.3 | | 93.71 |
| 10 | 963 | 31.92 | 50.2 | | 94.63 |
| 11 | 1,028 | 40.94 | 60.3 | | 95.32 |
| 12 | 1,108 | 55.43 | 75.8 | | 95.82 |
| 13 | 1,319 | 38.86 | 44.6 | | 97.15 |
| 14 | 1,450 | 34.46 | 36.0 | | 97.97 |
| 15 | 1,617 | 81.73 | 76.6 | | 99.03 |
| 16 | 2,302 | 6.56 | 4.3 | | 102.42 |
| 17 | 2,557 | 5.64 | 3.3 | | 103.24 |
| 18 | 10,380 | 75.00 | 10.9 | Upper Marker | 113.00 |

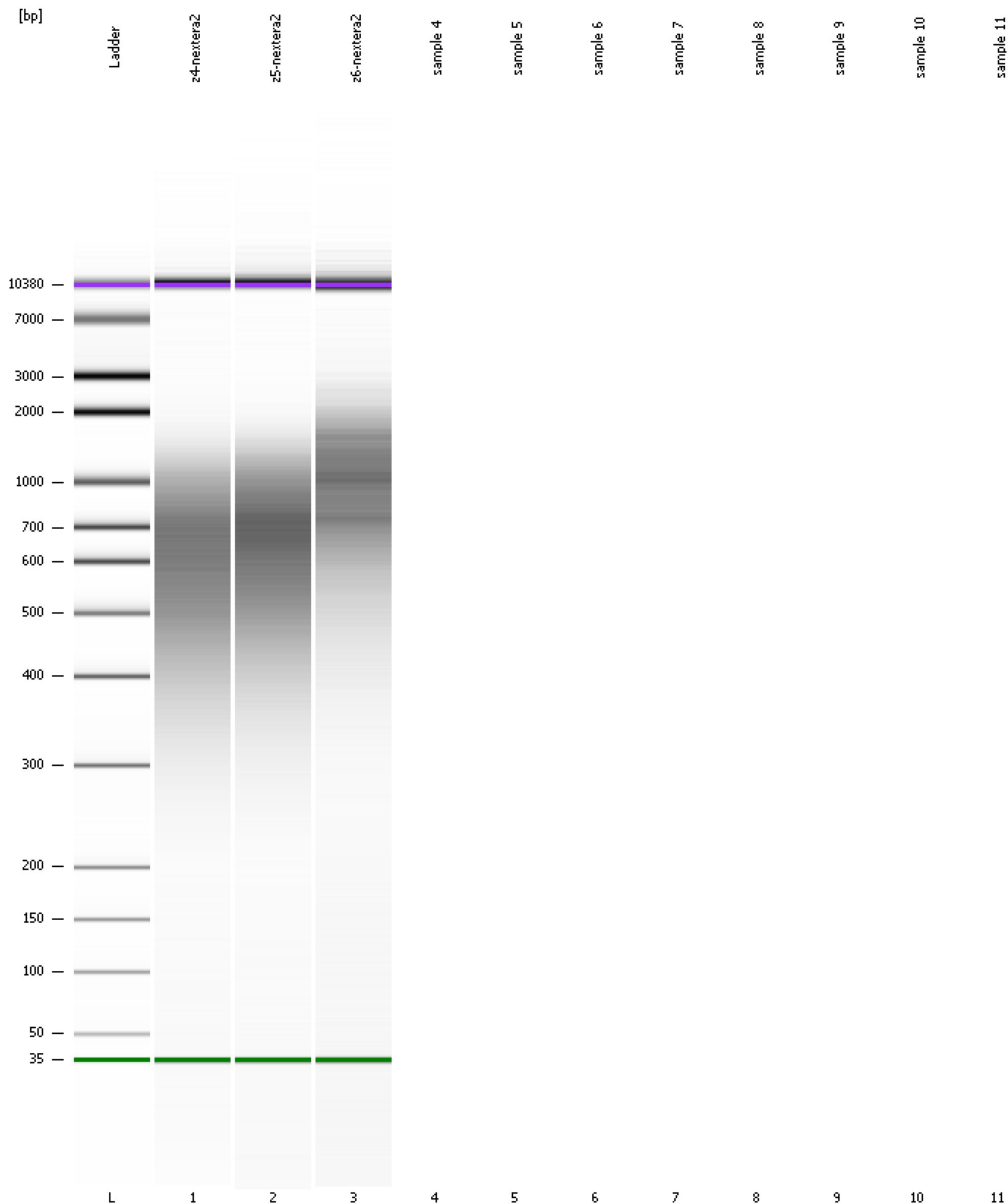
Region table for sample 3 : z6-nextera2

| From [bp] | To [bp] | Average Size [bp] | Corr. Area | Molarity [pmol/l] | Co Conc. [pg/μl] | % of Total | Size distribution in CV [%] |
|-----------|---------|-------------------|------------|-------------------|------------------|------------|-----------------------------|
| 368 | 773 | 1,042 | 667.0 | 1,449.9 | 760.98 | 93 | 50.4 |

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2017-10-12\2017-10-12_004.xad

Created: 10/12/2017 3:43:31 PM
Modified: 10/12/2017 4:05:57 PM

Gel Image



Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2017-10-12\2017-10-12_004.xad

Created: 10/12/2017 3:43:31 PM
Modified: 10/12/2017 4:05:57 PM

Invalid Samples

- Sample 4 has not been run, no results available.
- 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.