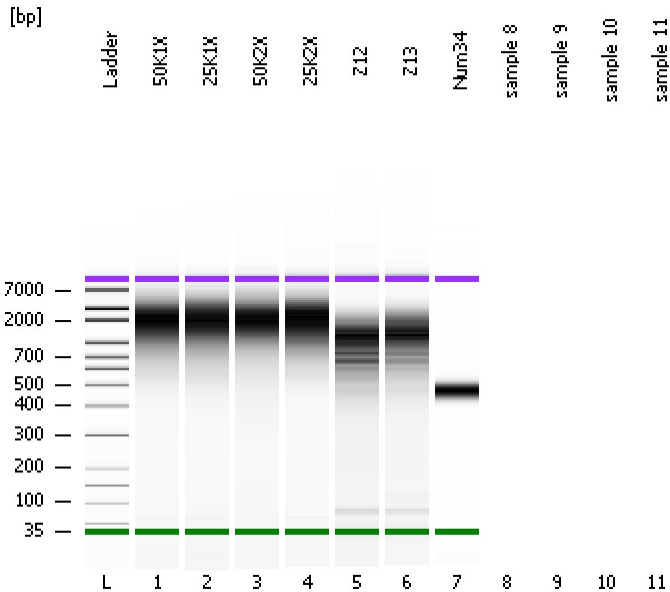


Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2018-04-11\2018-04-11_002.xad

Created: 4/11/2018 4:03:20 PM
Modified: 4/11/2018 4:33:11 PM

Electrophoresis File Run Summary



Instrument Information:

Instrument Name: DE34903152 Firmware: C.01.069
Serial#: DE34903152 Type: G2938C

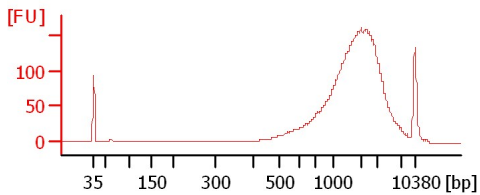
Assay Information:

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

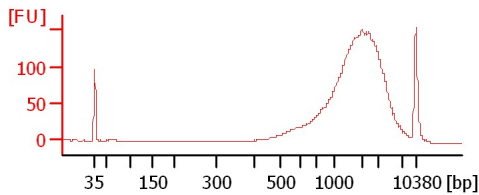
Chip Information:

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

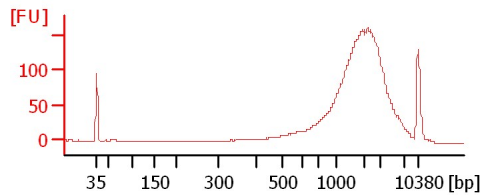
50K1X



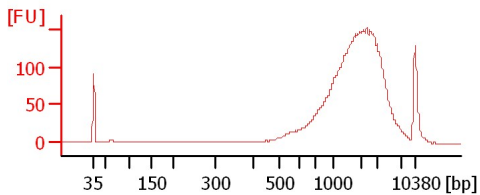
25K1X



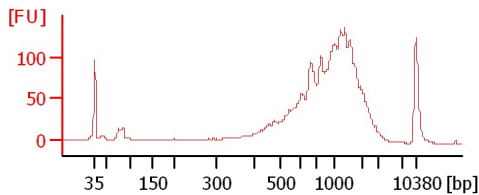
50K2X



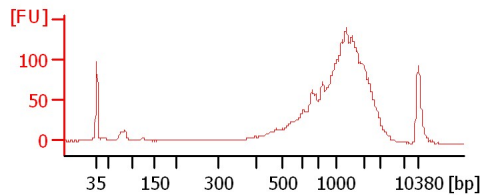
25K2X



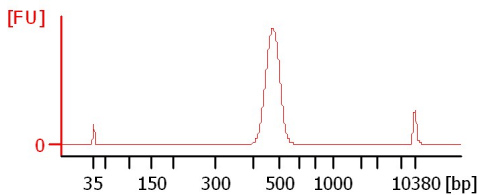
Z12



Z13



Num34



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-04-11\2018-04-11_002.xad

Created: 4/11/2018 4:03:20 PM
 Modified: 4/11/2018 4:33:11 PM

Electrophoresis File Run Summary (Chip Summary)

| Sample Name | Sample Comment | Rest. Digest | Status | Observation | Result Label | Result Color |
|-------------|----------------|--------------------------|--------|-------------|--------------|--------------|
| 50K1X | | <input type="checkbox"/> | ✓ | | | |
| 25K1X | | <input type="checkbox"/> | ✓ | | | |
| 50K2X | | <input type="checkbox"/> | ✓ | | | |
| 25K2X | | <input type="checkbox"/> | ✓ | | | |
| Z12 | | <input type="checkbox"/> | ✓ | | | |
| Z13 | | <input type="checkbox"/> | ✓ | | | |
| Num34 | | <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 #

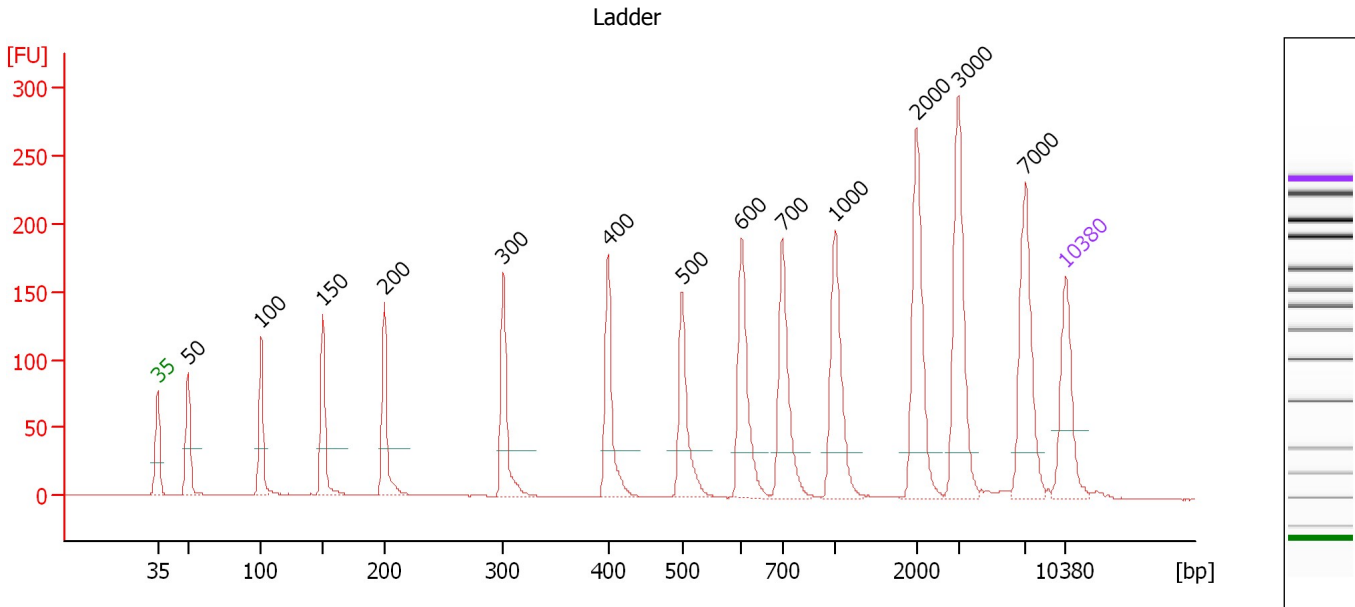
Reagent Kit Lot #

Chip Comments :

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-04-11\2018-04-11_002.xad

Created: 4/11/2018 4:03:20 PM
 Modified: 4/11/2018 4:33:11 PM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.3

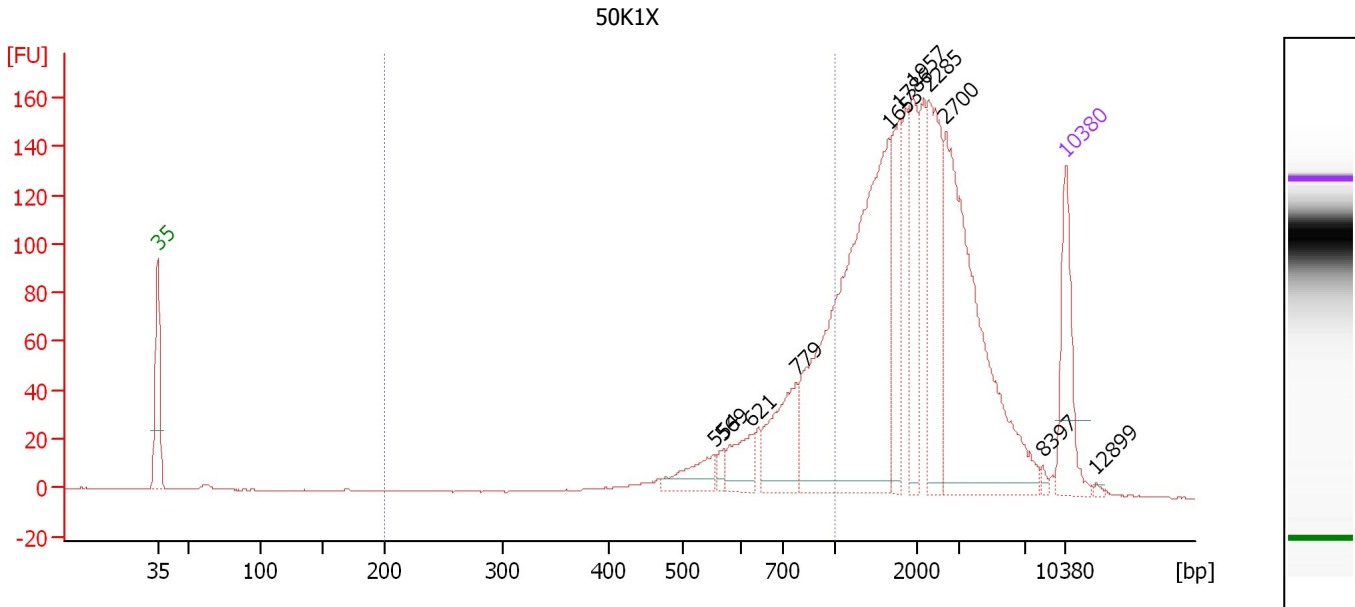
Peak table for Ladder

| 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 | 45.33 |
| 3 | 100 | 150.00 | 2,272.7 | Ladder Peak | 50.96 |
| 4 | 150 | 150.00 | 1,515.2 | Ladder Peak | 55.72 |
| 5 | 200 | 150.00 | 1,136.4 | Ladder Peak | 60.48 |
| 6 | 300 | 150.00 | 757.6 | Ladder Peak | 69.65 |
| 7 | 400 | 150.00 | 568.2 | Ladder Peak | 77.71 |
| 8 | 500 | 150.00 | 454.5 | Ladder Peak | 83.44 |
| 9 | 600 | 150.00 | 378.8 | Ladder Peak | 88.00 |
| 10 | 700 | 150.00 | 324.7 | Ladder Peak | 91.16 |
| 11 | 1,000 | 150.00 | 227.3 | Ladder Peak | 95.18 |
| 12 | 2,000 | 150.00 | 113.6 | Ladder Peak | 101.50 |
| 13 | 3,000 | 150.00 | 75.8 | Ladder Peak | 104.70 |
| 14 | 7,000 | 150.00 | 32.5 | Ladder Peak | 109.89 |
| 15 | 10,380 | 75.00 | 10.9 | Upper Marker | 113.00 |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-04-11\2018-04-11_002.xad

Created: 4/11/2018 4:03:20 PM
 Modified: 4/11/2018 4:33:11 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : 50K1X

Number of peaks found: 11 Corr. Area 1: 459.3
 Noise: 0.3

Peak table for sample 1 : 50K1X

| 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 | 554 | 40.37 | 110.4 | | 85.91 |
| 3 | 569 | 10.41 | 27.7 | | 86.60 |
| 4 | 621 | 41.89 | 102.2 | | 88.67 |
| 5 | 779 | 92.05 | 179.1 | | 92.21 |
| 6 | 1,653 | 462.83 | 424.2 | | 99.31 |
| 7 | 1,786 | 86.85 | 73.7 | | 100.14 |
| 8 | 1,957 | 84.02 | 65.0 | | 101.23 |
| 9 | 2,285 | 126.16 | 83.6 | | 102.41 |
| 10 | 2,700 | 310.14 | 174.0 | | 103.74 |
| 11 | 8,397 | 3.79 | 0.7 | | 111.18 |
| 12 | 10,380 | 75.00 | 10.9 | Upper Marker | 113.00 |
| 13 | 12,899 | 0.00 | 0.0 | | 115.32 |

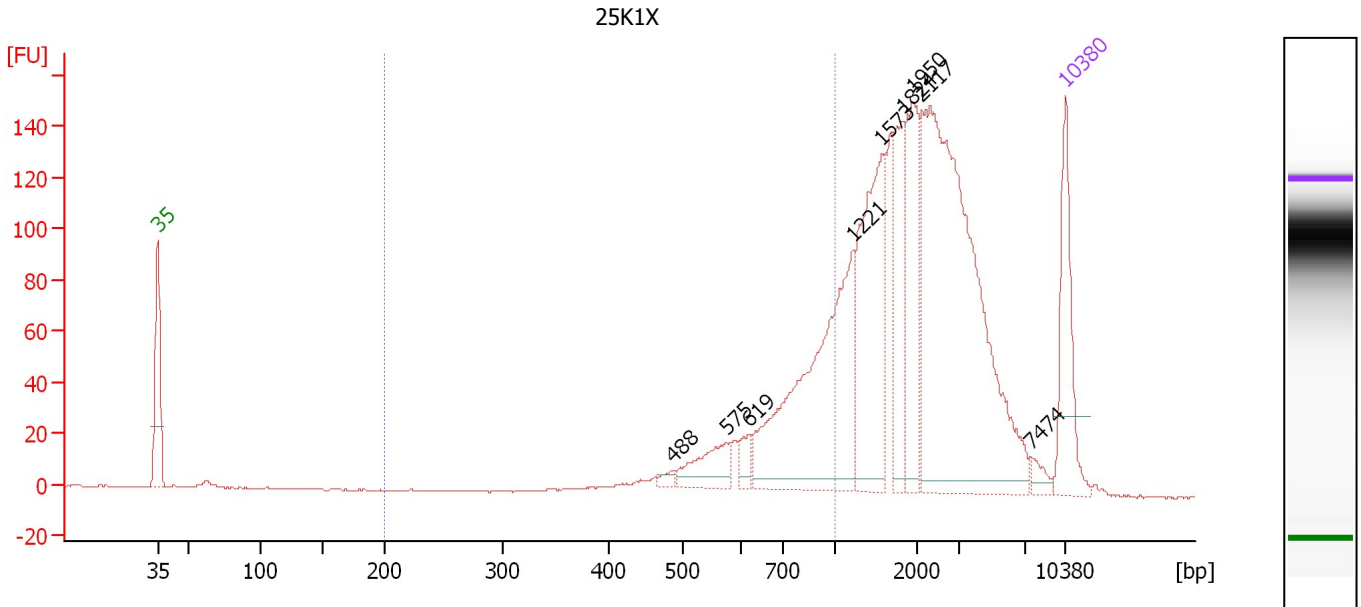
Region table for sample 1 : 50K1X

| From [bp] | To [bp] | Average Size [bp] | Conc. [pg/μl] | Corr. Area | Molarity [pmol/l] | Co % of lor Total | Size distribution in CV [%] |
|-----------|---------|-------------------|---------------|------------|-------------------|-------------------|-----------------------------|
| 200 | 1,000 | 732 | 378.86 | 459.3 | 847.1 | 22 | 22.6 |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-04-11\2018-04-11_002.xad

Created: 4/11/2018 4:03:20 PM
 Modified: 4/11/2018 4:33:11 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : 25K1X

Number of peaks found: 9 Corr. Area 1: 444.9
 Noise: 0.3

Peak table for sample 2 : 25K1X

| 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 | 488 | 7.26 | 22.6 | | 82.72 |
| 3 | 575 | 46.24 | 121.7 | | 86.88 |
| 4 | 619 | 17.09 | 41.8 | | 88.61 |
| 5 | 1,221 | 268.84 | 333.7 | | 96.58 |
| 6 | 1,573 | 173.64 | 167.2 | | 98.80 |
| 7 | 1,824 | 78.54 | 65.2 | | 100.39 |
| 8 | 1,950 | 102.03 | 79.3 | | 101.18 |
| 9 | 2,117 | 437.24 | 313.0 | | 101.87 |
| 10 | 7,474 | 10.18 | 2.1 | | 110.33 |
| 11 | 10,380 | 75.00 | 10.9 | Upper Marker | 113.00 |

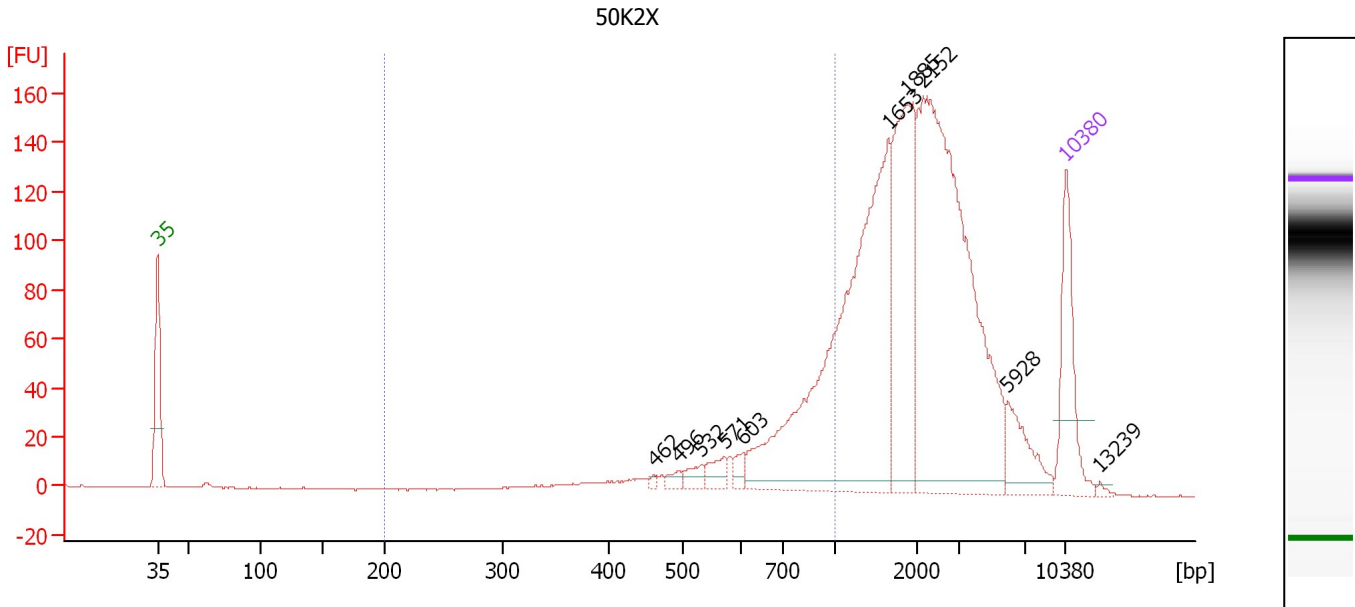
Region table for sample 2 : 25K1X

| From [bp] | To [bp] | Average Size [bp] | Conc. [pg/μl] | Corr. Area | Molarity [pmol/l] | Co % of lor Total | Size distribution in CV [%] |
|-----------|---------|-------------------|---------------|------------|-------------------|-------------------|-----------------------------|
| 200 | 1,000 | 726 | 332.08 | 444.9 | 748.4 | 22 | 23.0 |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-04-11\2018-04-11_002.xad

Created: 4/11/2018 4:03:20 PM
 Modified: 4/11/2018 4:33:11 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : 50K2X

Number of peaks found: 10 Corr. Area 1: 393.1
 Noise: 0.3

Peak table for sample 3 : 50K2X

| 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 | 462 | 3.20 | 10.5 | | 81.26 |
| 3 | 496 | 8.79 | 26.9 | | 83.18 |
| 4 | 532 | 13.88 | 39.5 | | 84.90 |
| 5 | 571 | 18.19 | 48.3 | | 86.67 |
| 6 | 603 | 11.55 | 29.0 | | 88.08 |
| 7 | 1,653 | 451.44 | 413.9 | | 99.30 |
| 8 | 1,885 | 183.75 | 147.7 | | 100.77 |
| 9 | 2,152 | 465.15 | 327.5 | | 101.98 |
| 10 | 5,928 | 48.44 | 12.4 | | 108.50 |
| 11 | 10,380 | 75.00 | 10.9 | Upper Marker | 113.00 |
| 12 | 13,239 | 0.00 | 0.0 | | 115.63 |

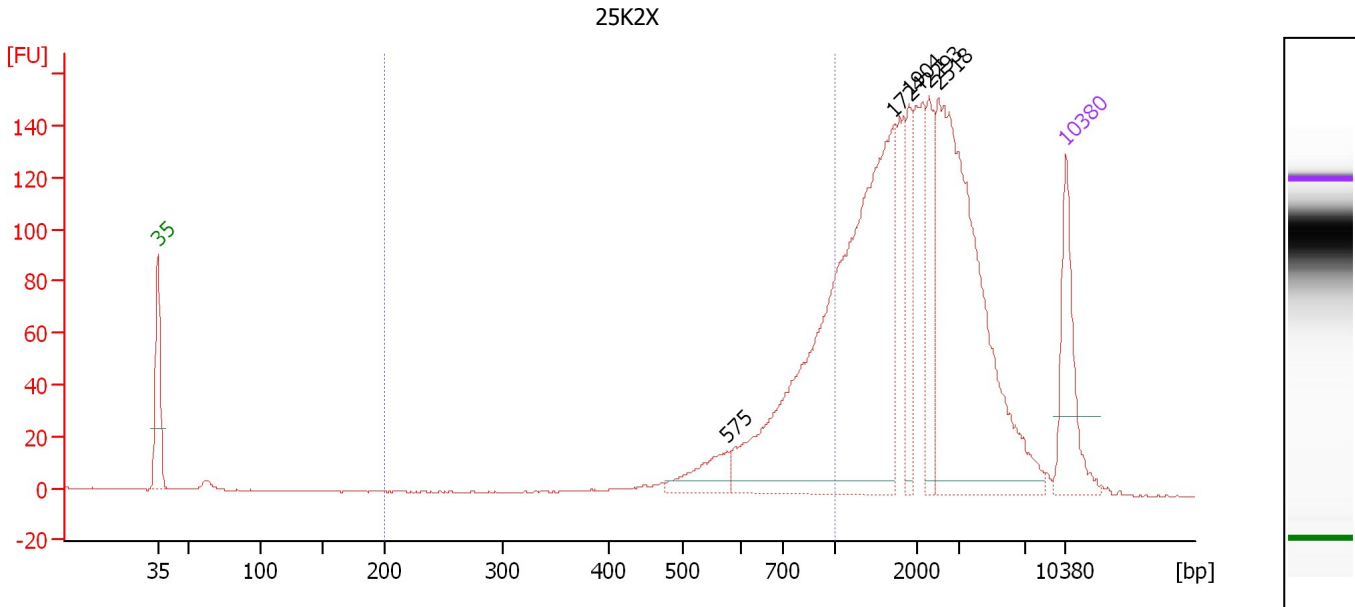
Region table for sample 3 : 50K2X

| From [bp] | To [bp] | Average Size [bp] | Conc. [pg/μl] | Corr. Area | Molarity [pmol/l] | Co % of Ior Total | Size distribution in CV [%] |
|-----------|---------|-------------------|---------------|------------|-------------------|-------------------|-----------------------------|
| 200 | 1,000 | 706 | 312.02 | 393.1 | 760.7 | 20 | 26.9 |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-04-11\2018-04-11_002.xad

Created: 4/11/2018 4:03:20 PM
 Modified: 4/11/2018 4:33:11 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : 25K2X

Number of peaks found: 5 Corr. Area 1: 426.4
 Noise: 0.2

Peak table for sample 4 : 25K2X

| 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 | 575 | 44.26 | 116.6 | | 86.87 |
| 3 | 1,724 | 529.57 | 465.4 | | 99.75 |
| 4 | 1,904 | 60.36 | 48.0 | | 100.89 |
| 5 | 2,293 | 59.85 | 39.6 | | 102.43 |
| 6 | 2,518 | 368.43 | 221.7 | | 103.15 |
| 7 | 10,380 | 75.00 | 10.9 | Upper Marker | 113.00 |

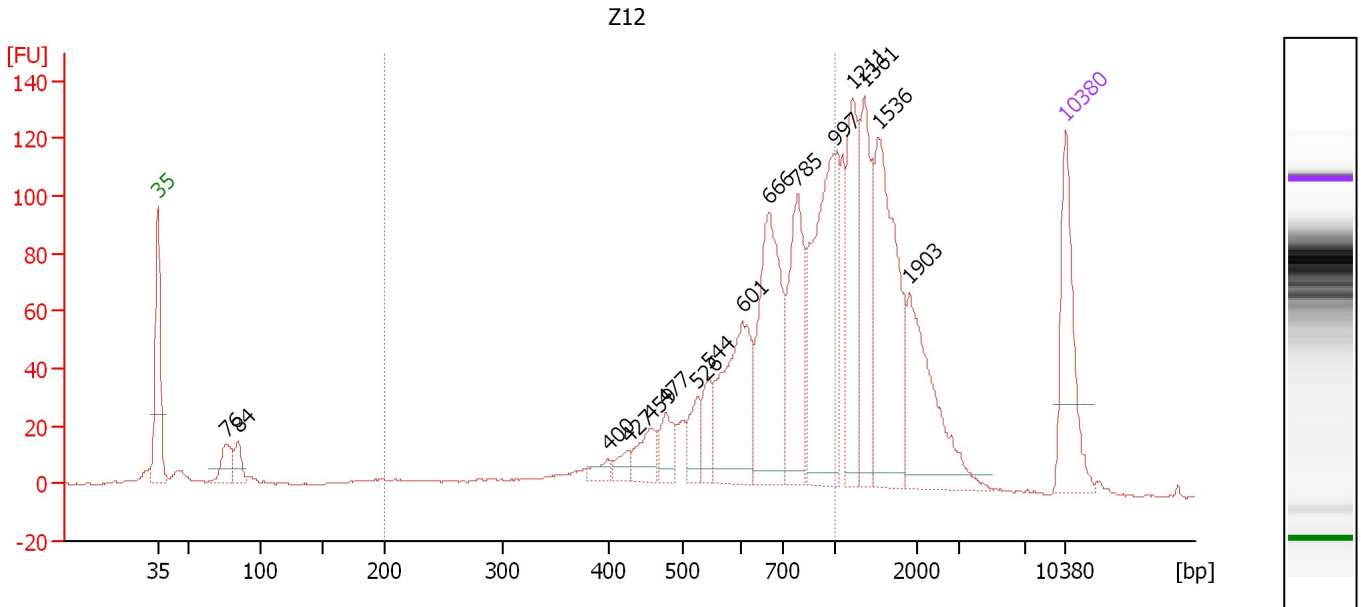
Region table for sample 4 : 25K2X

| From [bp] | To [bp] | Average Size [bp] | Conc. [pg/μl] | Corr. Area | Molarity [pmol/l] | Co % of lor Total | Size distribution in CV [%] |
|-----------|---------|-------------------|---------------|------------|-------------------|-------------------|-----------------------------|
| 200 | 1,000 | 750 | 318.69 | 426.4 | 688.0 | 21 | 21.3 |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-04-11\2018-04-11_002.xad

Created: 4/11/2018 4:03:20 PM
 Modified: 4/11/2018 4:33:11 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : Z12

Number of peaks found: 16 Corr. Area 1: 1,090.3
 Noise: 0.3

Peak table for sample 5 : Z12

| 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 | 76 | 34.39 | 684.9 | | 48.27 |
| 3 | 84 | 22.70 | 407.1 | | 49.22 |
| 4 | 400 | 10.93 | 41.4 | | 77.71 |
| 5 | 427 | 12.46 | 44.2 | | 79.24 |
| 6 | 459 | 31.24 | 103.2 | | 81.08 |
| 7 | 477 | 29.40 | 93.3 | | 82.13 |
| 8 | 526 | 29.26 | 84.3 | | 84.61 |
| 9 | 544 | 30.17 | 84.0 | | 85.45 |
| 10 | 601 | 122.33 | 308.4 | | 88.03 |
| 11 | 666 | 159.50 | 362.8 | | 90.09 |
| 12 | 785 | 111.54 | 215.2 | | 92.30 |
| 13 | 997 | 190.12 | 288.9 | | 95.14 |
| 14 | 1,211 | 98.80 | 123.6 | | 96.51 |
| 15 | 1,361 | 90.34 | 100.6 | | 97.46 |
| 16 | 1,536 | 161.12 | 158.9 | | 98.57 |
| 17 | 1,903 | 103.66 | 82.5 | | 100.89 |
| 18 | 10,380 | 75.00 | 10.9 | Upper Marker | 113.00 |

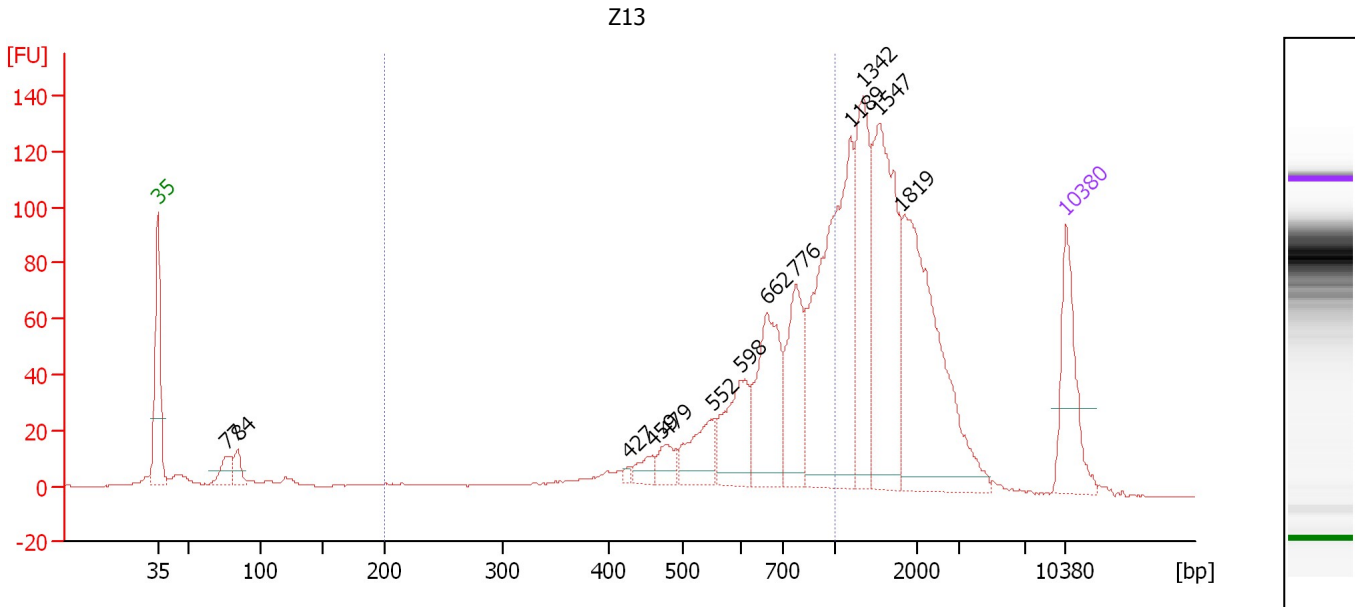
Region table for sample 5 : Z12

| From [bp] | To [bp] | Average Size [bp] | Conc. [pg/μl] | Corr. Area | Molarity [pmol/l] | Co % of lor Total | Size distribution in CV [%] |
|-----------|---------|-------------------|---------------|------------|-------------------|-------------------|-----------------------------|
| 200 | 1,000 | 669 | 862.86 | 1,090.3 | 2,270.5 | 53 | 27.8 |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-04-11\2018-04-11_002.xad

Created: 4/11/2018 4:03:20 PM
 Modified: 4/11/2018 4:33:11 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : Z13

Number of peaks found: 13 Corr. Area 1: 771.7
 Noise: 0.3

Peak table for sample 6 : Z13

| 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 | 77 | 31.11 | 611.4 | | 48.38 |
| 3 | 84 | 23.36 | 420.1 | | 49.19 |
| 4 | 427 | 4.56 | 16.2 | | 79.26 |
| 5 | 459 | 16.40 | 54.1 | | 81.09 |
| 6 | 479 | 25.10 | 79.4 | | 82.22 |
| 7 | 552 | 56.22 | 154.2 | | 85.83 |
| 8 | 598 | 82.57 | 209.1 | | 87.93 |
| 9 | 662 | 130.18 | 297.7 | | 89.97 |
| 10 | 776 | 97.57 | 190.5 | | 92.18 |
| 11 | 1,189 | 289.36 | 368.9 | | 96.37 |
| 12 | 1,342 | 140.41 | 158.5 | | 97.34 |
| 13 | 1,547 | 203.41 | 199.3 | | 98.63 |
| 14 | 1,819 | 243.54 | 202.8 | | 100.36 |
| 15 | 10,380 | 75.00 | 10.9 | Upper Marker | 113.00 |

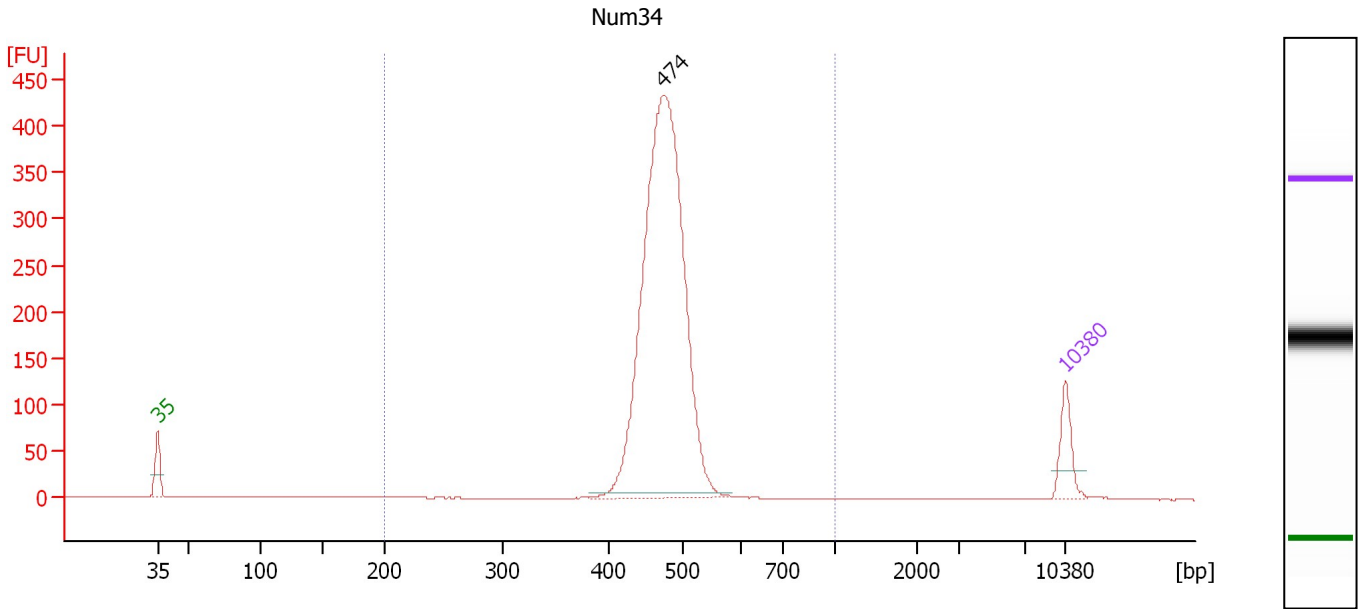
Region table for sample 6 : Z13

| From [bp] | To [bp] | Average Size [bp] | Conc. [pg/μl] | Corr. Area | Molarity [pmol/l] | Co % of lor Total | Size distribution in CV [%] |
|-----------|---------|-------------------|---------------|------------|-------------------|-------------------|-----------------------------|
| 200 | 1,000 | 687 | 701.62 | 771.7 | 1,786.7 | 41 | 27.0 |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-04-11\2018-04-11_002.xad

Created: 4/11/2018 4:03:20 PM
 Modified: 4/11/2018 4:33:11 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : Num34

Number of peaks found: 1 Corr. Area 1: 1,957.4
 Noise: 0.2

Peak table for sample 7 : Num34

| 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 | 474 | 1,861.40 | 5,945.5 | | 81.97 |
| 3 | 10,380 | 75.00 | 10.9 | Upper Marker | 113.00 |

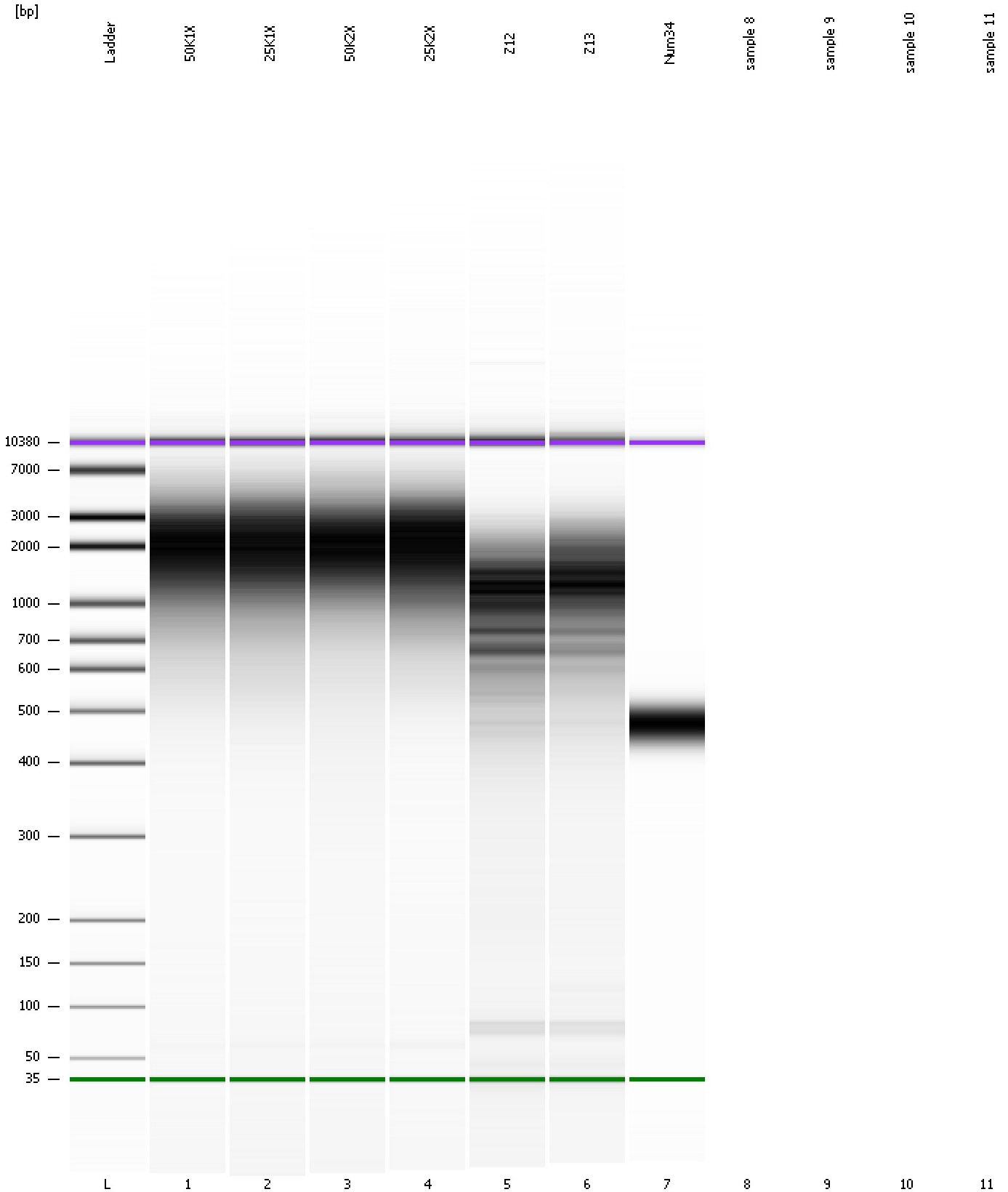
Region table for sample 7 : Num34

| From [bp] | To [bp] | Average Size [bp] | Conc. [pg/μl] | Corr. Area | Molarity [pmol/l] | Co % of lor Total | Size distribution in CV [%] |
|-----------|---------|-------------------|---------------|------------|-------------------|-------------------|-----------------------------|
| 200 | 1,000 | 476 | 1,875.90 | 1,957.4 | 5,992.5 | 98 | 6.4 |

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2018-04-11\2018-04-11_002.xad

Created: 4/11/2018 4:03:20 PM
Modified: 4/11/2018 4:33:11 PM

Gel Image



Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2018-04-11\2018-04-11_002.xad

Created: 4/11/2018 4:03:20 PM
Modified: 4/11/2018 4:33:11 PM

Invalid Samples

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.