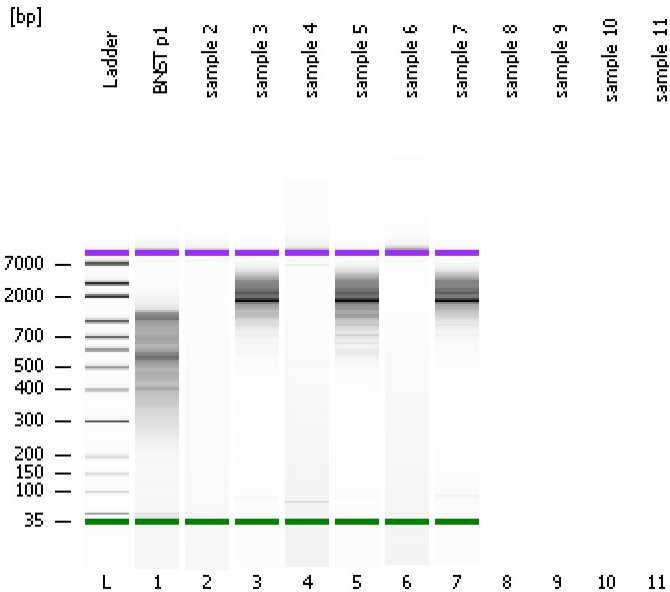


Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2018-04-16\2018-04-16_001.xad

Created: 4/16/2018 9:34:30 AM
Modified: 4/16/2018 10:04:22 AM

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

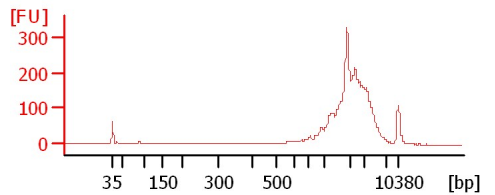
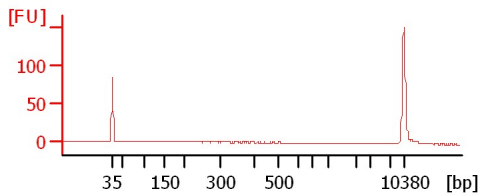
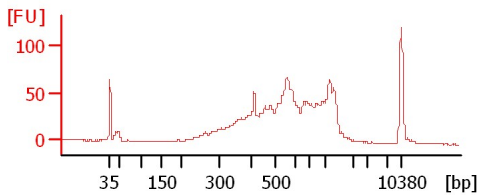
Chip Information:

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

BNST p1

sample 2

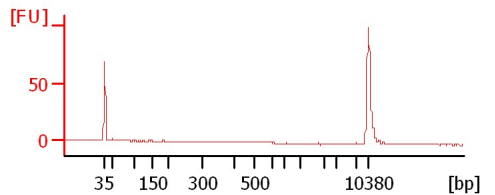
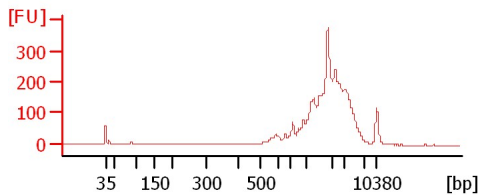
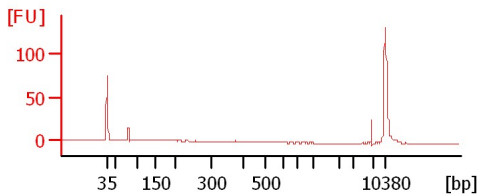
sample 3



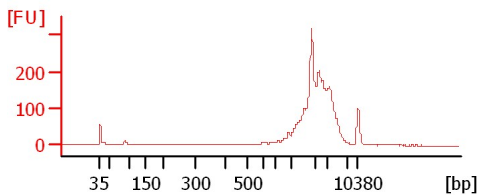
sample 4

sample 5

sample 6



sample 7



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-04-16\2018-04-16_001.xad

Created: 4/16/2018 9:34:30 AM
 Modified: 4/16/2018 10:04:22 AM

Electrophoresis File Run Summary (Chip Summary)

| Sample Name | Sample Comment | Rest. Digest | Status | Observation | Result Label | Result Color |
|-------------|----------------|--------------------------|--------|-------------|--------------|--------------|
| BNST p1 | | <input type="checkbox"/> | ✓ | | | |
| sample 2 | | <input type="checkbox"/> | ✓ | | | |
| sample 3 | | <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\2018-04-16\2018-04-16_001.xad

Created: 4/16/2018 9:34:30 AM
Modified: 4/16/2018 10:04:22 AM

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

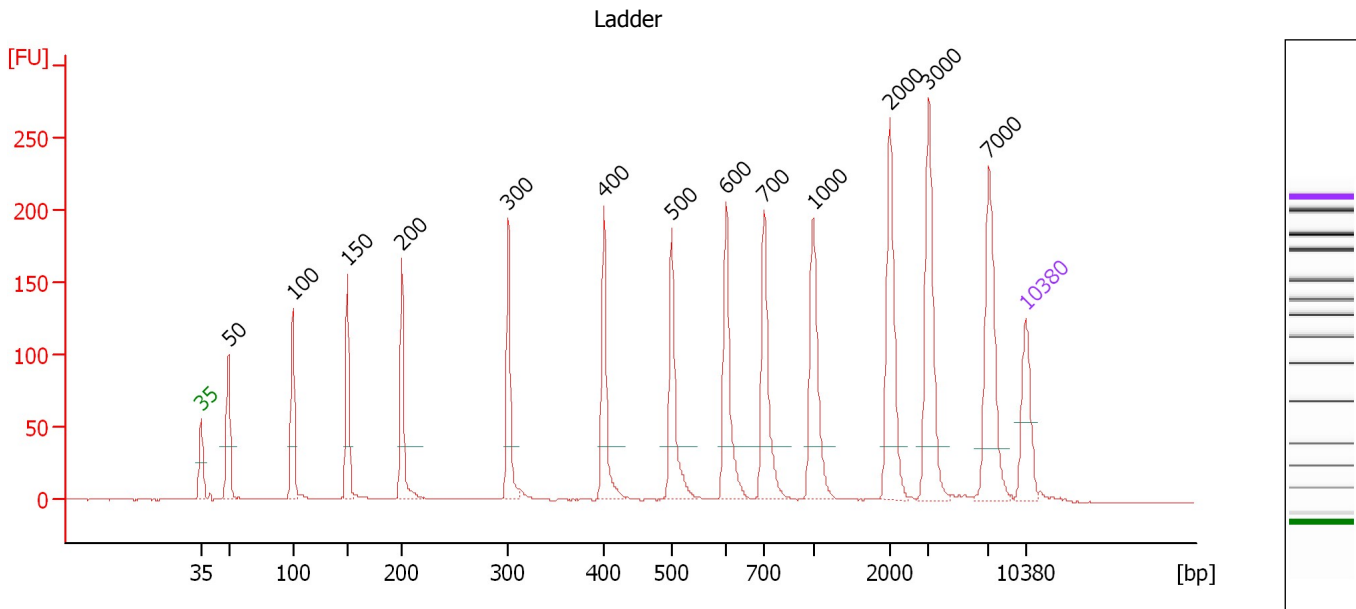
Ladder

| 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\2018-04-16\2018-04-16_001.xad

Created: 4/16/2018 9:34:30 AM
 Modified: 4/16/2018 10:04:22 AM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.2

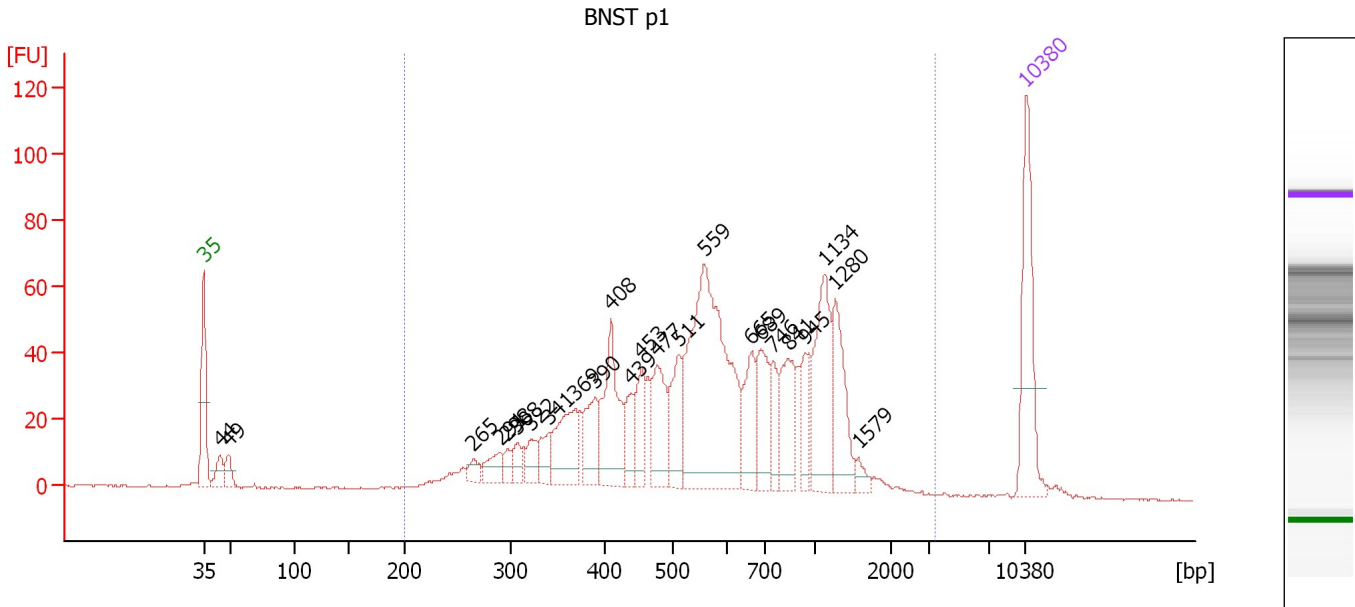
Peak table for Ladder

| 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 | 45.31 |
| 3 | 100 | 150.00 | 2,272.7 | Ladder Peak | 50.75 |
| 4 | 150 | 150.00 | 1,515.2 | Ladder Peak | 55.41 |
| 5 | 200 | 150.00 | 1,136.4 | Ladder Peak | 60.04 |
| 6 | 300 | 150.00 | 757.6 | Ladder Peak | 69.10 |
| 7 | 400 | 150.00 | 568.2 | Ladder Peak | 77.21 |
| 8 | 500 | 150.00 | 454.5 | Ladder Peak | 82.96 |
| 9 | 600 | 150.00 | 378.8 | Ladder Peak | 87.58 |
| 10 | 700 | 150.00 | 324.7 | Ladder Peak | 90.80 |
| 11 | 1,000 | 150.00 | 227.3 | Ladder Peak | 94.97 |
| 12 | 2,000 | 150.00 | 113.6 | Ladder Peak | 101.49 |
| 13 | 3,000 | 150.00 | 75.8 | Ladder Peak | 104.80 |
| 14 | 7,000 | 150.00 | 32.5 | Ladder Peak | 109.92 |
| 15 | 10,380 | 75.00 | 10.9 | Upper Marker | 113.00 |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-04-16\2018-04-16_001.xad

Created: 4/16/2018 9:34:30 AM
 Modified: 4/16/2018 10:04:22 AM

Electropherogram Summary Continued ...



Overall Results for sample 1 : BNST p1

Number of peaks found: 24 Corr. Area 1: 1,370.5
 Noise: 0.3

Peak table for sample 1 : BNST p1

| 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 | 44 | 24.04 | 825.3 | | 44.41 |
| 3 | 49 | 20.16 | 625.4 | | 45.13 |
| 4 | 265 | 11.38 | 65.0 | | 65.97 |
| 5 | 291 | 22.66 | 118.2 | | 68.24 |
| 6 | 298 | 11.84 | 60.3 | | 68.88 |
| 7 | 308 | 14.78 | 72.7 | | 69.74 |
| 8 | 322 | 20.80 | 97.8 | | 70.92 |
| 9 | 341 | 22.62 | 100.5 | | 72.42 |
| 10 | 369 | 66.50 | 273.1 | | 74.69 |
| 11 | 390 | 41.96 | 163.2 | | 76.37 |
| 12 | 408 | 90.12 | 334.5 | | 77.68 |
| 13 | 439 | 26.73 | 92.3 | | 79.45 |
| 14 | 453 | 38.97 | 130.3 | | 80.27 |
| 15 | 477 | 58.72 | 186.6 | | 81.63 |
| 16 | 511 | 48.43 | 143.7 | | 83.45 |
| 17 | 559 | 271.40 | 736.1 | | 85.67 |
| 18 | 665 | 47.73 | 108.8 | | 89.67 |
| 19 | 689 | 52.71 | 116.0 | | 90.44 |
| 20 | 746 | 28.12 | 57.1 | | 91.44 |
| 21 | 841 | 50.78 | 91.5 | | 92.75 |
| 22 | 945 | 30.44 | 48.8 | | 94.21 |
| 23 | 1,134 | 84.97 | 113.6 | | 95.84 |
| 24 | 1,280 | 58.47 | 69.2 | | 96.79 |
| 25 | 1,579 | 8.07 | 7.7 | | 98.75 |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-04-16\2018-04-16_001.xad

Created: 4/16/2018 9:34:30 AM
 Modified: 4/16/2018 10:04:22 AM

Electropherogram Summary Continued ...

... Peak table for sample 1 : BNST p1

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

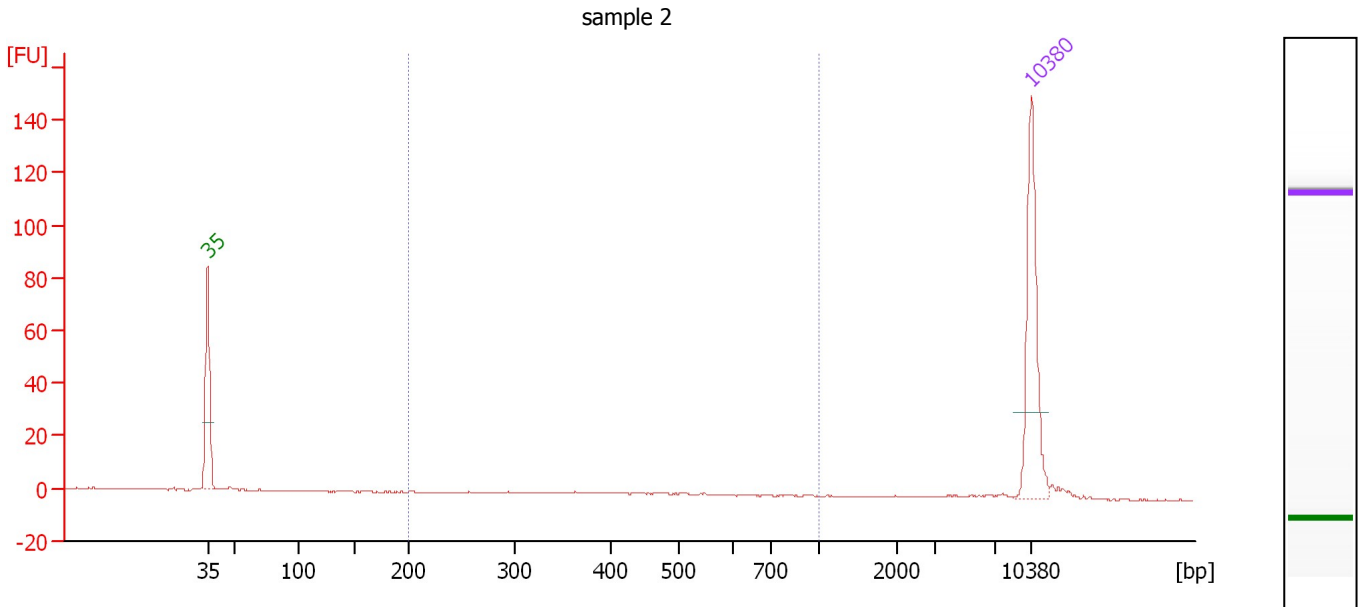
Region table for sample 1 : BNST p1

| From [bp] | To [bp] | Average Size [bp] | Conc. [pg/μl] | Corr. Area | Molarity [pmol/l] | Co % of lor Total | Size distribution in CV [%] |
|-----------|---------|-------------------|---------------|------------|-------------------|-------------------|-----------------------------|
| 200 | 3,350 | 673 | 1,304.89 | 1,370.5 | 3,920.8 | 96 | 52.0 |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-04-16\2018-04-16_001.xad

Created: 4/16/2018 9:34:30 AM
 Modified: 4/16/2018 10:04:22 AM

Electropherogram Summary Continued ...



Overall Results for sample 2 : sample 2

Number of peaks found: 0 Corr. Area 1: 11.3
 Noise: 0.2

Peak table for sample 2 : sample 2

| 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 | 10,380 | 75.00 | 10.9 | Upper Marker | 113.00 |

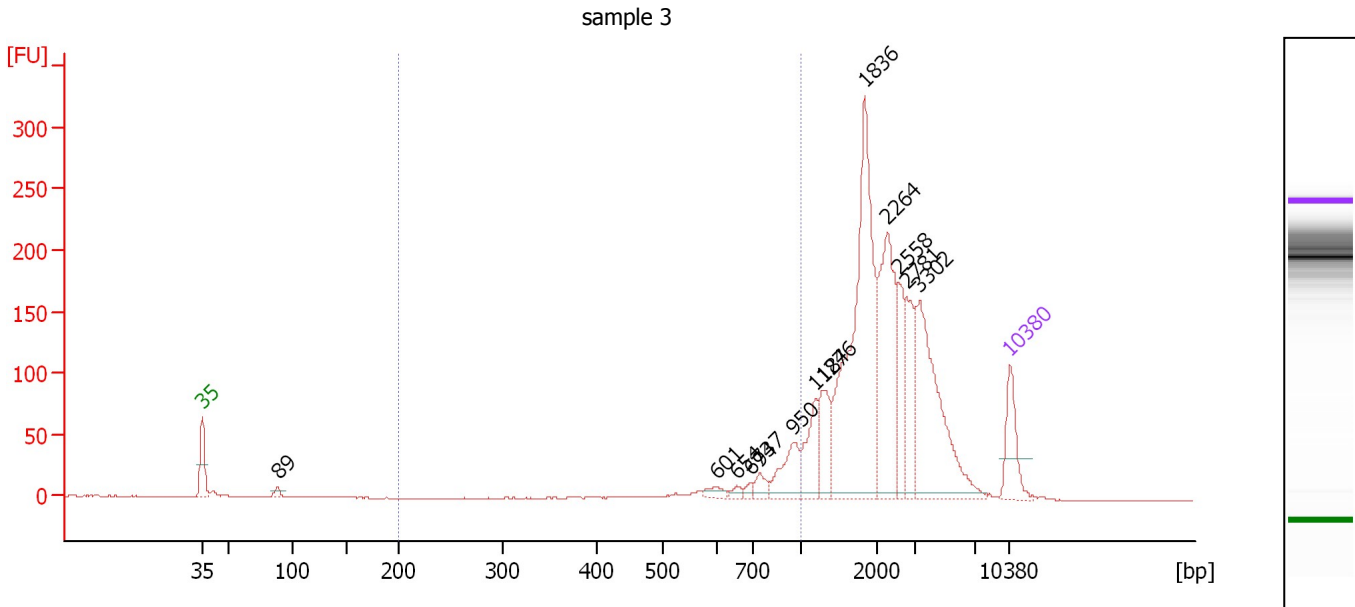
Region table for sample 2 : sample 2

| 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 | 479 | 9.33 | 11.3 | 34.4 | 31 | 34.0 |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-04-16\2018-04-16_001.xad

Created: 4/16/2018 9:34:30 AM
 Modified: 4/16/2018 10:04:22 AM

Electropherogram Summary Continued ...



Overall Results for sample 3 : sample 3

Number of peaks found: 13 Corr. Area 1: 191.9
 Noise: 0.2

Peak table for sample 3 : sample 3

| 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 | 89 | 14.20 | 242.5 | | 49.52 |
| 3 | 601 | 16.67 | 42.0 | | 87.62 |
| 4 | 654 | 11.35 | 26.3 | | 89.33 |
| 5 | 694 | 8.78 | 19.2 | | 90.62 |
| 6 | 737 | 24.77 | 50.9 | | 91.32 |
| 7 | 950 | 77.46 | 123.5 | | 94.27 |
| 8 | 1,184 | 83.99 | 107.5 | | 96.17 |
| 9 | 1,276 | 83.19 | 98.7 | | 96.77 |
| 10 | 1,836 | 541.25 | 446.6 | | 100.42 |
| 11 | 2,264 | 255.66 | 171.1 | | 102.37 |
| 12 | 2,558 | 84.72 | 50.2 | | 103.34 |
| 13 | 2,781 | 101.48 | 55.3 | | 104.08 |
| 14 | 3,302 | 303.23 | 139.1 | | 105.19 |
| 15 | 10,380 | 75.00 | 10.9 | Upper Marker | 113.00 |

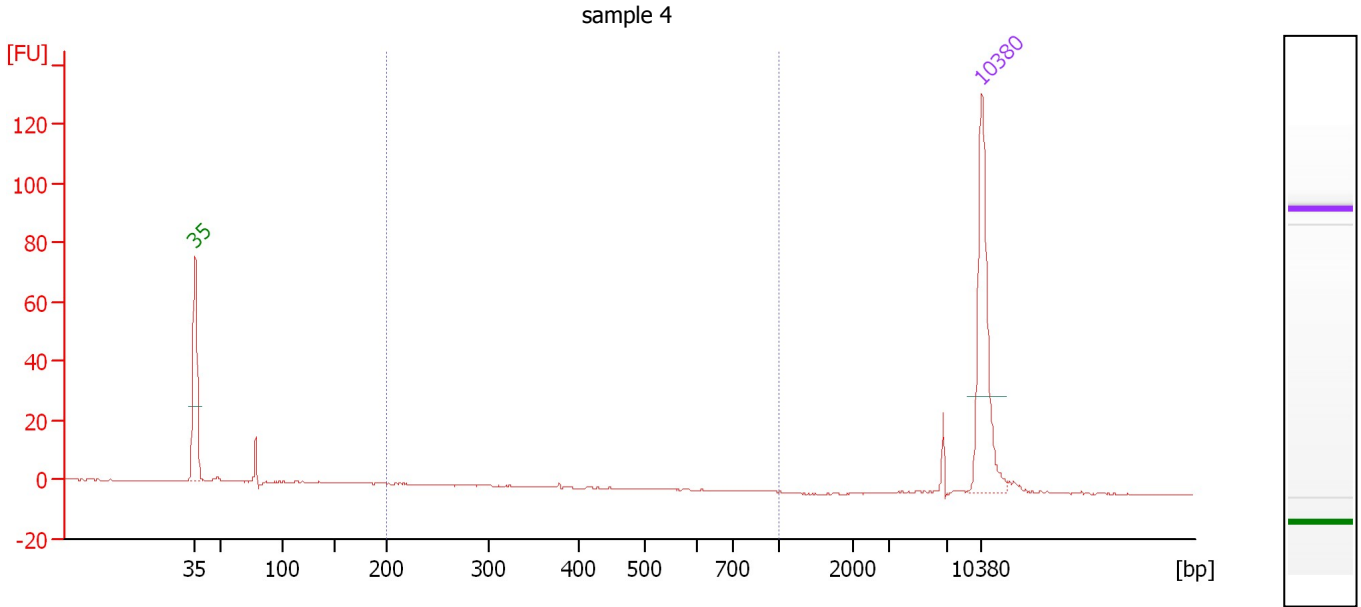
Region table for sample 3 : sample 3

| 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 | 777 | 182.19 | 191.9 | 380.4 | 9 | 20.9 |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-04-16\2018-04-16_001.xad

Created: 4/16/2018 9:34:30 AM
 Modified: 4/16/2018 10:04:22 AM

Electropherogram Summary Continued ...



Overall Results for sample 4 : sample 4

Number of peaks found: 0 Corr. Area 1: 0.3
 Noise: 0.2

Peak table for sample 4 : sample 4

| 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 | 10,380 | 75.00 | 10.9 | Upper Marker | 113.00 |

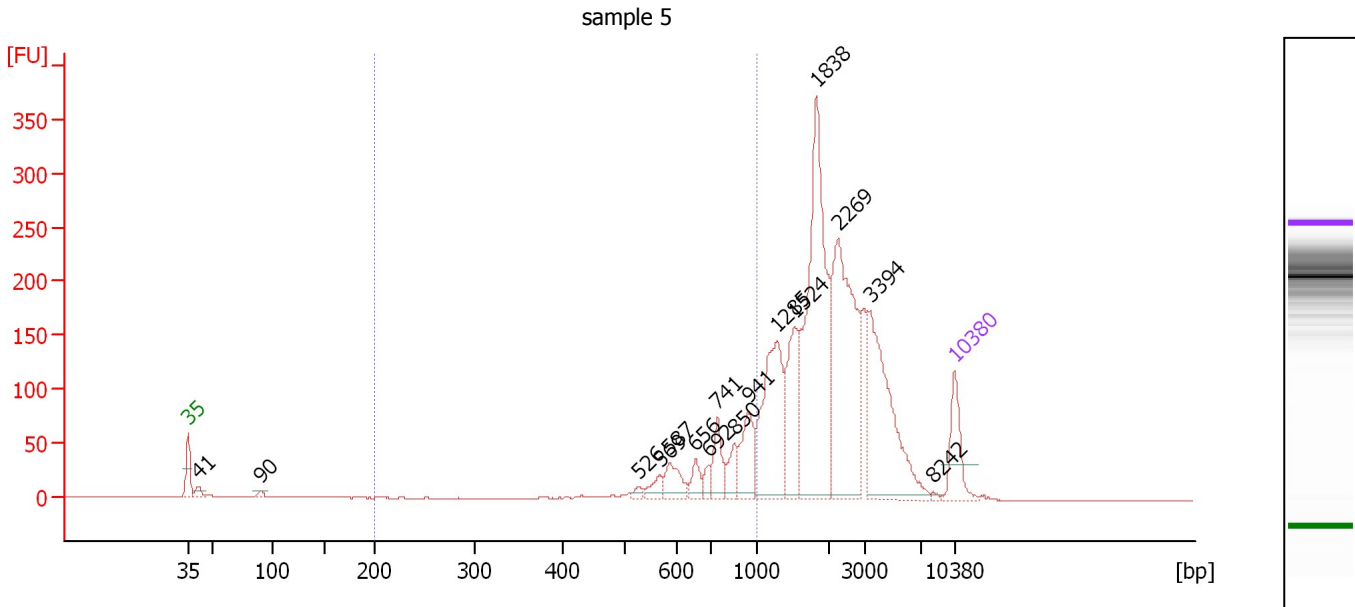
Region table for sample 4 : sample 4

| 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 | 303 | 0.34 | 0.3 | 1.9 | 2 | 24.9 |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-04-16\2018-04-16_001.xad

Created: 4/16/2018 9:34:30 AM
 Modified: 4/16/2018 10:04:22 AM

Electropherogram Summary Continued ...



Overall Results for sample 5 : sample 5

Number of peaks found: 16 Corr. Area 1: 432.9
 Noise: 0.2

Peak table for sample 5 : sample 5

| 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 | 41 | 19.36 | 715.2 | | 43.93 |
| 3 | 90 | 10.58 | 177.8 | | 49.67 |
| 4 | 526 | 11.04 | 31.8 | | 84.16 |
| 5 | 569 | 27.69 | 73.7 | | 86.16 |
| 6 | 587 | 54.28 | 140.1 | | 86.99 |
| 7 | 656 | 33.32 | 77.0 | | 89.37 |
| 8 | 692 | 20.33 | 44.5 | | 90.54 |
| 9 | 741 | 66.11 | 135.1 | | 91.37 |
| 10 | 850 | 41.91 | 74.7 | | 92.88 |
| 11 | 941 | 90.54 | 145.8 | | 94.15 |
| 12 | 1,285 | 248.84 | 293.4 | | 96.83 |
| 13 | 1,524 | 140.47 | 139.7 | | 98.39 |
| 14 | 1,838 | 506.88 | 417.9 | | 100.43 |
| 15 | 2,269 | 396.12 | 264.5 | | 102.38 |
| 16 | 3,394 | 284.12 | 126.8 | | 105.30 |
| 17 | 8,242 | 3.61 | 0.7 | | 111.05 |
| 18 | 10,380 | 75.00 | 10.9 | Upper Marker | 113.00 |

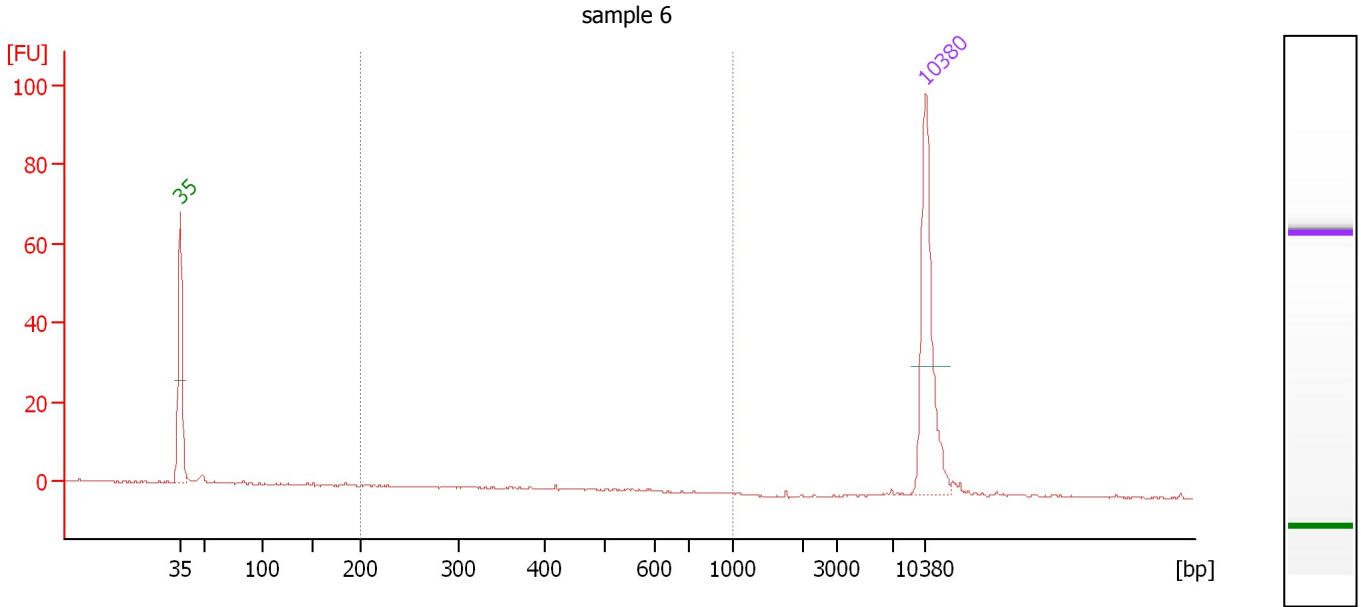
Region table for sample 5 : sample 5

| 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 | 753 | 376.94 | 432.9 | 801.0 | 16 | 20.4 |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-04-16\2018-04-16_001.xad

Created: 4/16/2018 9:34:30 AM
 Modified: 4/16/2018 10:04:22 AM

Electropherogram Summary Continued ...



Overall Results for sample 6 : sample 6

Number of peaks found: 0 Corr. Area 1: 4.3
 Noise: 0.2

Peak table for sample 6 : sample 6

| 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 | 10,380 | 75.00 | 10.9 | Upper Marker | 113.00 |

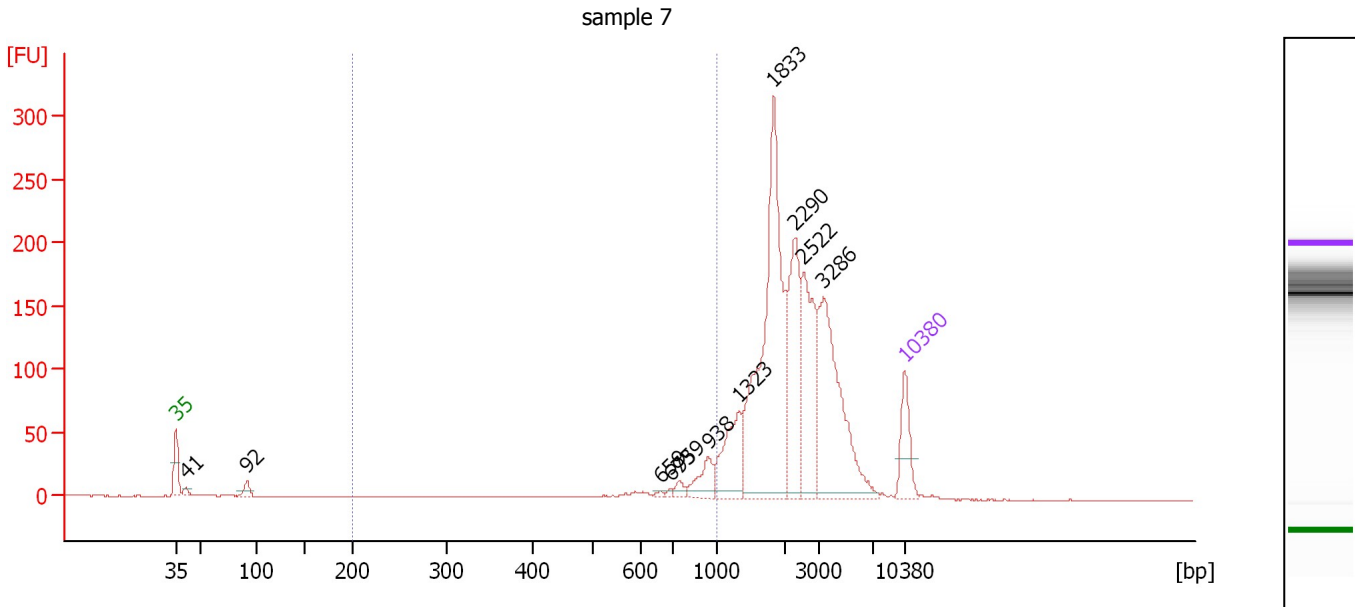
Region table for sample 6 : sample 6

| 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 | 374 | 4.63 | 4.3 | 21.5 | 16 | 29.1 |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-04-16\2018-04-16_001.xad

Created: 4/16/2018 9:34:30 AM
 Modified: 4/16/2018 10:04:22 AM

Electropherogram Summary Continued ...



Overall Results for sample 7 : sample 7

Number of peaks found: 11 Corr. Area 1: 111.3
 Noise: 0.2

Peak table for sample 7 : sample 7

| 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 | 41 | 14.34 | 526.0 | | 43.97 |
| 3 | 92 | 26.50 | 437.1 | | 49.86 |
| 4 | 659 | 5.70 | 13.1 | | 89.50 |
| 5 | 695 | 5.26 | 11.5 | | 90.62 |
| 6 | 739 | 15.34 | 31.4 | | 91.34 |
| 7 | 938 | 55.19 | 89.2 | | 94.10 |
| 8 | 1,323 | 128.99 | 147.7 | | 97.07 |
| 9 | 1,833 | 583.07 | 481.9 | | 100.40 |
| 10 | 2,290 | 227.82 | 150.7 | | 102.45 |
| 11 | 2,522 | 213.12 | 128.0 | | 103.22 |
| 12 | 3,286 | 343.08 | 158.2 | | 105.17 |
| 13 | 10,380 | 75.00 | 10.9 | Upper Marker | 113.00 |

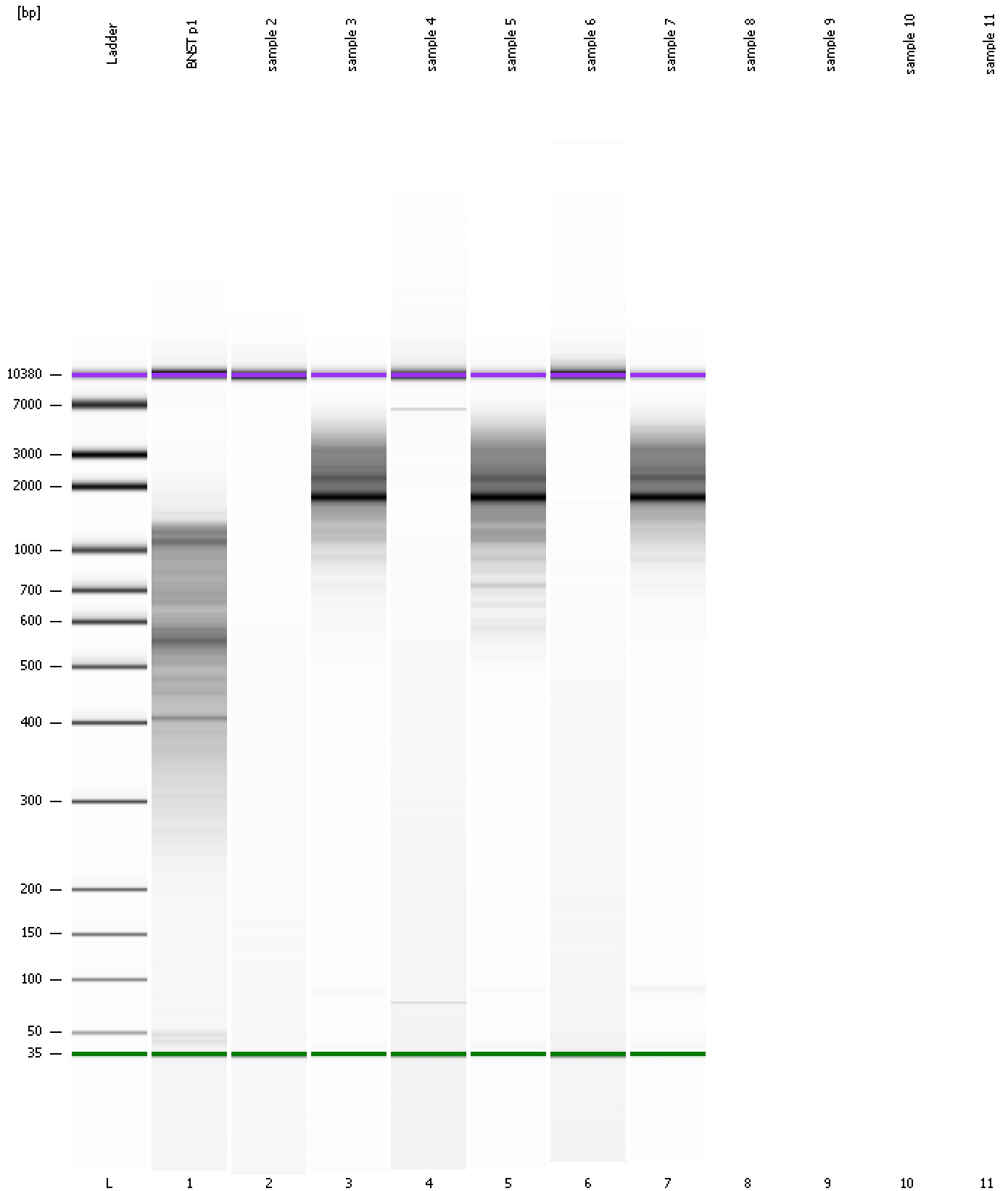
Region table for sample 7 : sample 7

| 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 | 800 | 119.41 | 111.3 | 241.1 | 6 | 19.5 |

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2018-04-16\2018-04-16_001.xad

Created: 4/16/2018 9:34:30 AM
Modified: 4/16/2018 10:04:22 AM

Gel Image

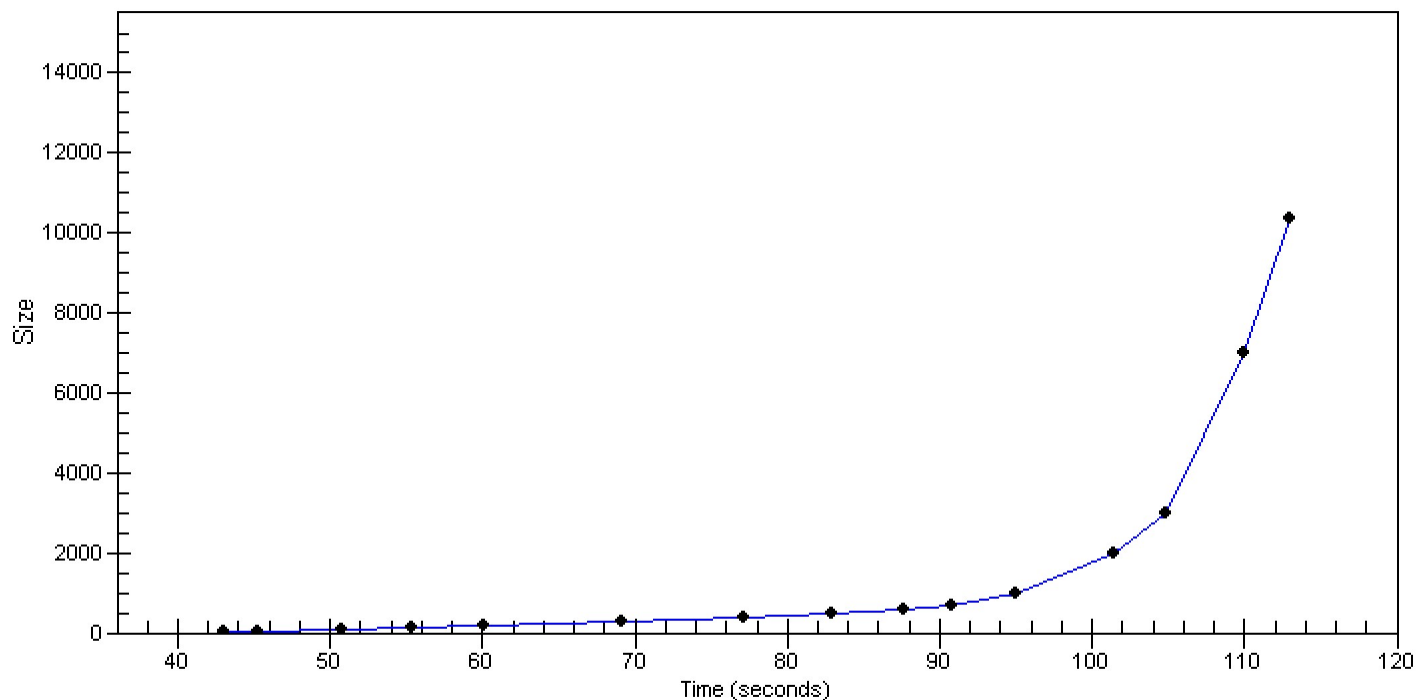


Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2018-04-16\2018-04-16_001.xad

Created: 4/16/2018 9:34:30 AM
Modified: 4/16/2018 10:04:22 AM

Curves

Standard Curve



Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2018-04-16\2018-04-16_001.xad

Created: 4/16/2018 9:34:30 AM
Modified: 4/16/2018 10:04:22 AM

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.