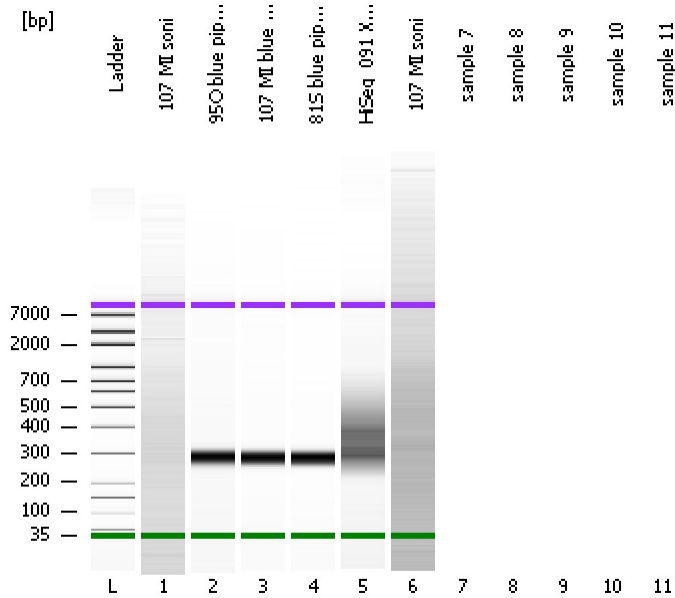


Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-06-04\2015-06-04_002.xad

Created: 6/4/2015 12:42:56 PM
Modified: 6/4/2015 1:14:27 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

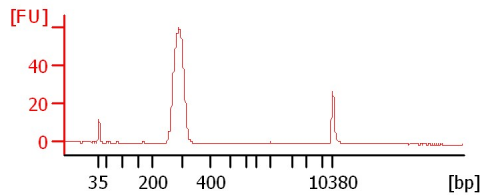
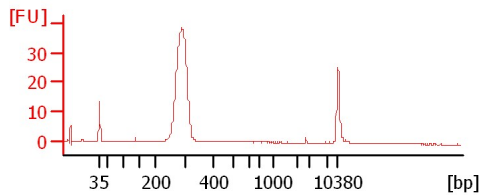
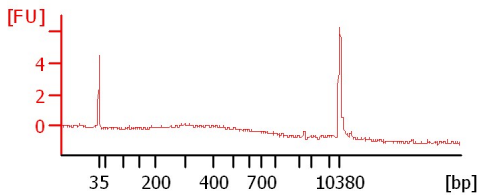
Chip Information:

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

107 MI soni

950 blue pipin KAPA lib (1:2)

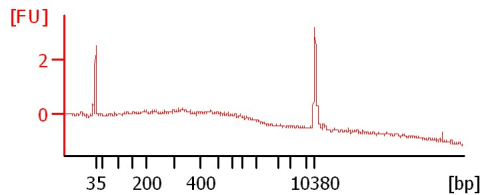
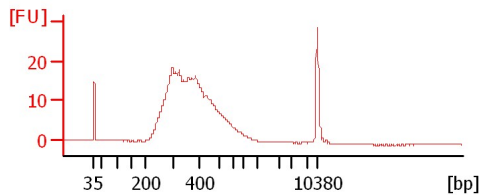
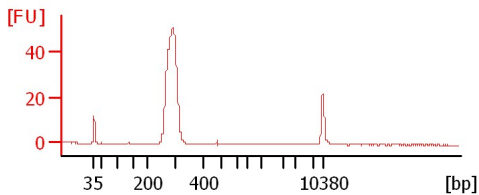
107 MI blue pipin KAPA lib (1:2)



815 blue pipin KAPA lib (1:2)

HiSeq_091 X33 pooled libs

107 MI soni



Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-06-04\2015-06-04_002.xad

Created: 6/4/2015 12:42:56 PM
Modified: 6/4/2015 1:14:27 PM

Electrophoresis File Run Summary (Chip Summary)

| Sample Name | Sample Comment | Rest. Digest | Status | Observation | Result Label | Result Color |
|-----------------------------------|----------------|--------------------------|--------|-------------|--------------|--------------|
| 107 MI soni | | <input type="checkbox"/> | ✓ | | | |
| 95O blue pippin KAPA lib (1:2) | | <input type="checkbox"/> | ✓ | | | |
| 107 MI blue pippin KAPA lib (1:2) | | <input type="checkbox"/> | ✓ | | | |
| 81S blue pippin KAPA lib (1:2) | | <input type="checkbox"/> | ✓ | | | |
| HiSeq_091 X33 pooled libs | | <input type="checkbox"/> | ✓ | | | |
| 107 MI soni | | <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:\...ents and Settings\Bioanalyzer\2015-06-04\2015-06-04_002.xad

Created: 6/4/2015 12:42:56 PM
Modified: 6/4/2015 1:14:27 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

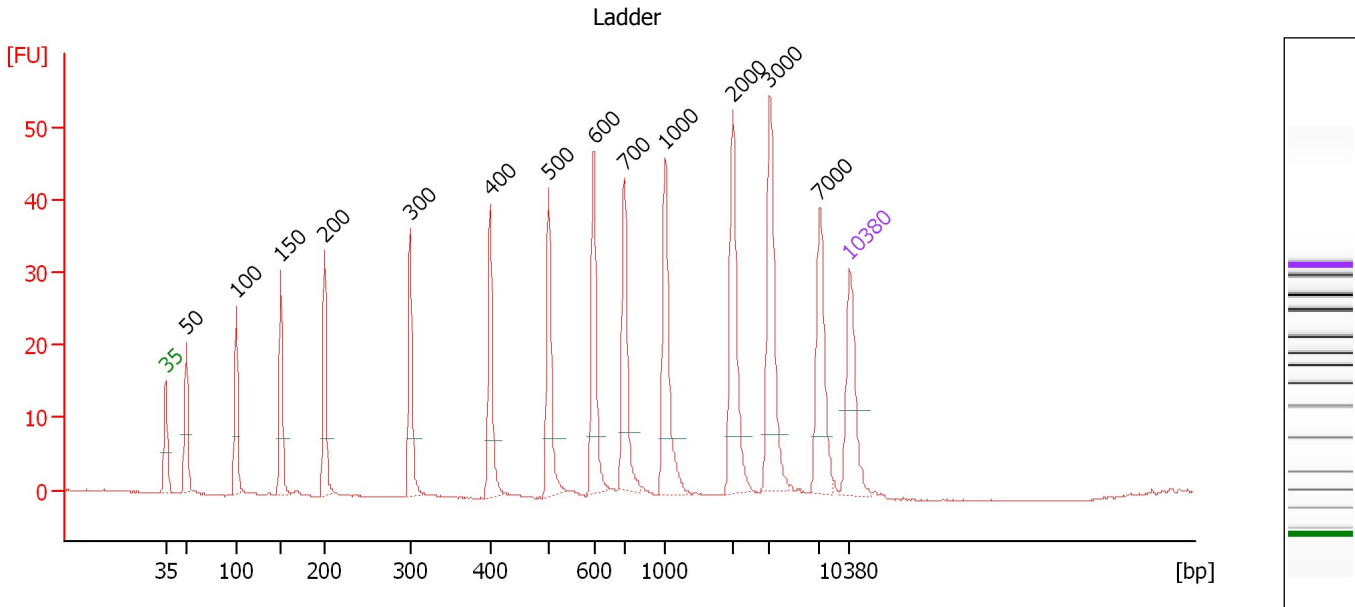
Ladder

| 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:\...ents and Settings\Bioanalyzer\2015-06-04\2015-06-04_002.xad

Created: 6/4/2015 12:42:56 PM
 Modified: 6/4/2015 1:14:27 PM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.1

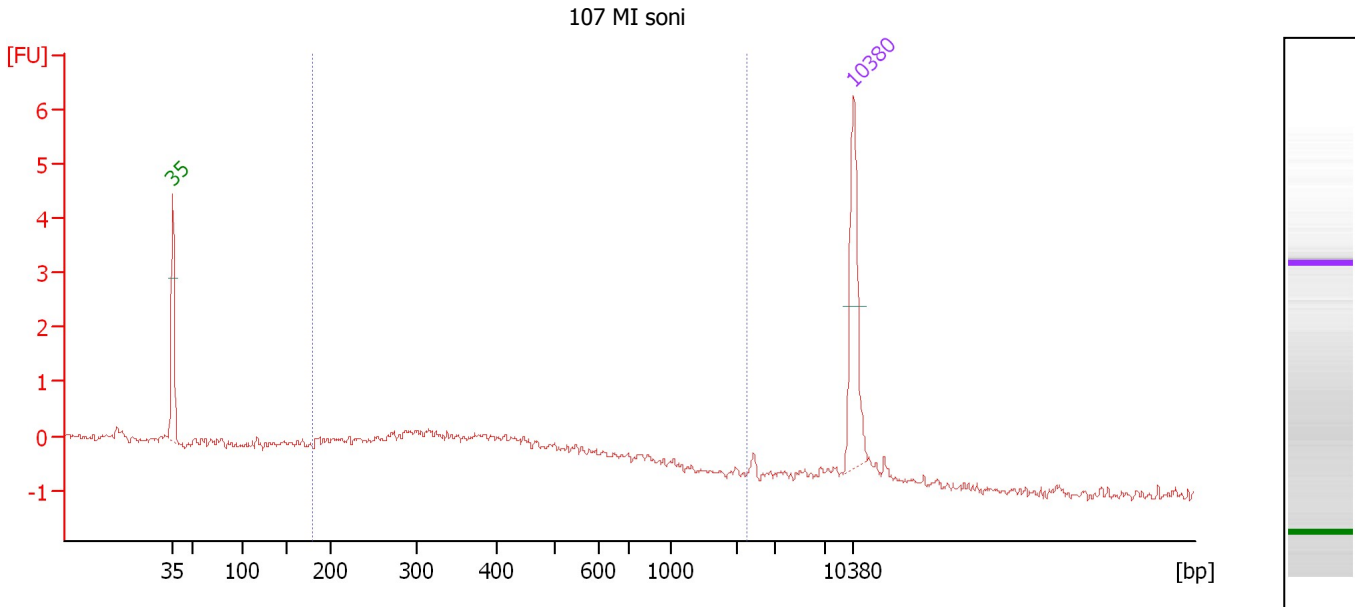
Peak table for Ladder

| 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 | 45.07 |
| 3 | 100 | 150.00 | 2,272.7 | Ladder Peak | 50.21 |
| 4 | 150 | 150.00 | 1,515.2 | Ladder Peak | 54.79 |
| 5 | 200 | 150.00 | 1,136.4 | Ladder Peak | 59.27 |
| 6 | 300 | 150.00 | 757.6 | Ladder Peak | 68.06 |
| 7 | 400 | 150.00 | 568.2 | Ladder Peak | 76.25 |
| 8 | 500 | 150.00 | 454.5 | Ladder Peak | 82.20 |
| 9 | 600 | 150.00 | 378.8 | Ladder Peak | 86.85 |
| 10 | 700 | 150.00 | 324.7 | Ladder Peak | 89.96 |
| 11 | 1,000 | 150.00 | 227.3 | Ladder Peak | 94.16 |
| 12 | 2,000 | 150.00 | 113.6 | Ladder Peak | 101.04 |
| 13 | 3,000 | 150.00 | 75.8 | Ladder Peak | 104.86 |
| 14 | 7,000 | 150.00 | 32.5 | Ladder Peak | 110.00 |
| 15 | 10,380 | 75.00 | 10.9 | Upper Marker | 113.00 |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-06-04\2015-06-04_002.xad

Created: 6/4/2015 12:42:56 PM
 Modified: 6/4/2015 1:14:27 PM

Electropherogram Summary Continued ...



Setpoint Deviations for sample 1 : 107 MI soni

Height Threshold [FU] : 3

Overall Results for sample 1 : 107 MI soni

Number of peaks found: 0 Corr. Area 1: 10.8
 Noise: 0.1

Peak table for sample 1 : 107 MI soni

| 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 |

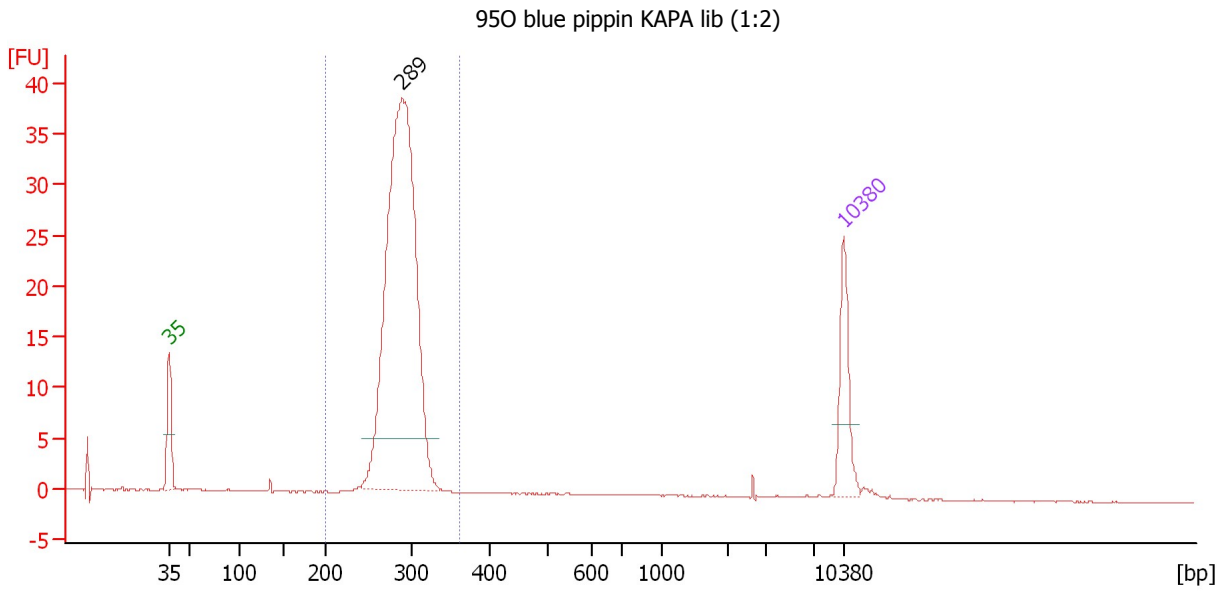
Region table for sample 1 : 107 MI soni

| From [bp] | Average Size [bp] | To [bp] | Corr. Area | Molarity [pmol/l] | Co % of lor Total | Size distribution in CV [%] | Conc. [pg/μl] |
|-----------|-------------------|---------|------------|-------------------|-------------------|-----------------------------|---------------|
| 178 | 398 | 2,238 | 10.8 | 989.7 | 86 | 37.3 | 219.51 |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-06-04\2015-06-04_002.xad

Created: 6/4/2015 12:42:56 PM
 Modified: 6/4/2015 1:14:27 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : 950 blue pippin KAPA lib (1:2)

Number of peaks found: 1 Corr. Area 1: 204.2
 Noise: 0.1

Peak table for sample 2 : 950 blue pippin KAPA lib (1:2)

| 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 | 289 | 1,019.93 | 5,340.7 | | 67.13 |
| 3 | 10,380 | 75.00 | 10.9 | Upper Marker | 113.00 |

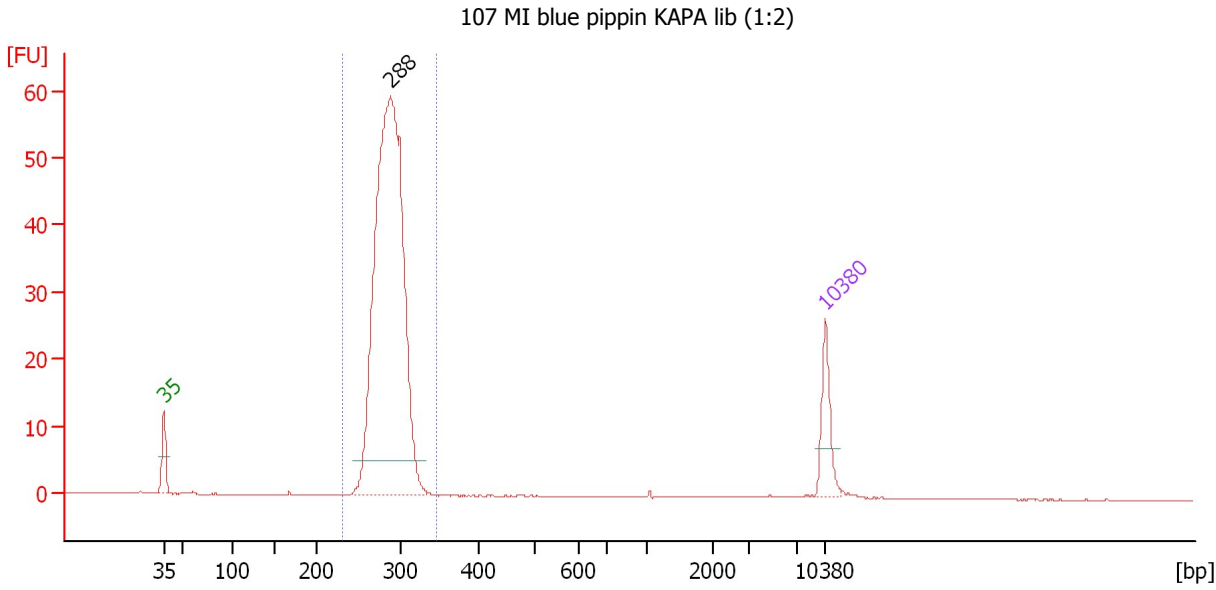
Region table for sample 2 : 950 blue pippin KAPA lib (1:2)

| From [bp] | Average Size [bp] | To [bp] | Corr. Area | Molarity [pmol/l] | Co % of Ior Total | Size distribution in CV [%] | Conc. [pg/μl] |
|-----------|-------------------|---------|------------|-------------------|-------------------|-----------------------------|---------------|
| 200 | 288 | 362 | 204.2 | 5,565.8 | 94 | 5.7 | 1,056.11 |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-06-04\2015-06-04_002.xad

Created: 6/4/2015 12:42:56 PM
 Modified: 6/4/2015 1:14:27 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : 107 MI blue pippin KAPA lib (1:2)

Number of peaks found: 1 Corr. Area 1: 300.1
 Noise: 0.1

Peak table for sample 3 : 107 MI blue pippin KAPA lib (1:2)

| 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 | 288 | 1,584.75 | 8,348.8 | | 66.97 |
| 3 | 10,380 | 75.00 | 10.9 | Upper Marker | 113.00 |

Region table for sample 3 : 107 MI blue pippin KAPA lib (1:2)

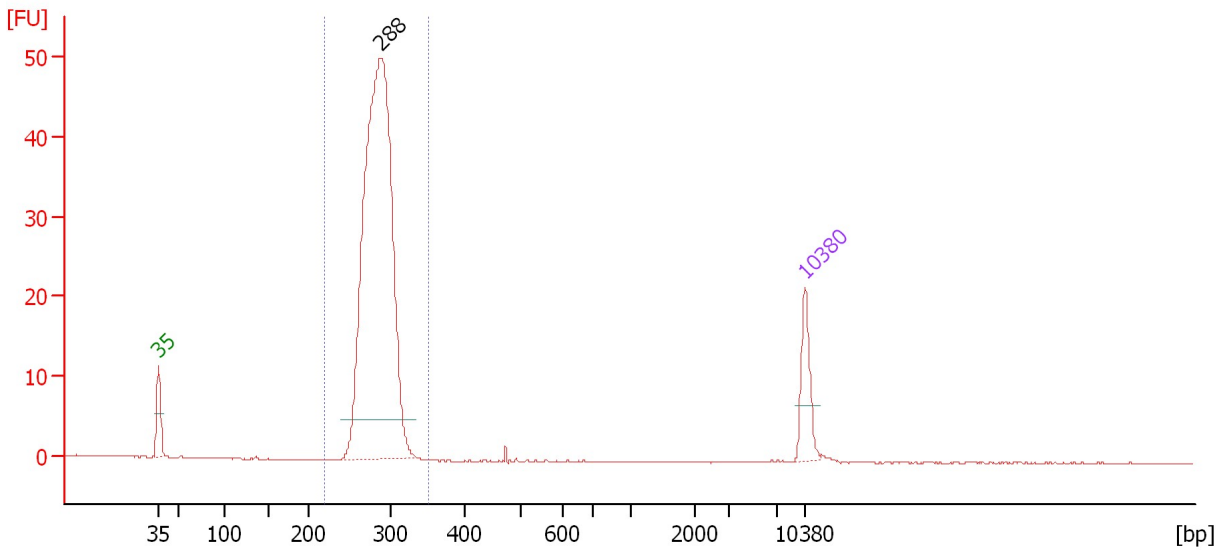
| From [bp] | Average Size [bp] | To [bp] | Corr. Area | Molarity [pmol/l] | Co % of lor Total | Size distribution in CV [%] | Conc. [pg/μl] |
|-----------|-------------------|---------|------------|-------------------|-------------------|-----------------------------|---------------|
| 231 | 286 | 346 | 300.1 | 8,476.1 | 98 | 5.1 | 1,599.74 |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-06-04\2015-06-04_002.xad

Created: 6/4/2015 12:42:56 PM
 Modified: 6/4/2015 1:14:27 PM

Electropherogram Summary Continued ...

81S blue pippin KAPA lib (1:2)



Overall Results for sample 4 : 81S blue pippin KAPA lib (1:2)

Number of peaks found: 1 Corr. Area 1: 253.6
 Noise: 0.1

Peak table for sample 4 : 81S blue pippin KAPA lib (1:2)

| 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 | 288 | 1,537.96 | 8,097.2 | | 66.99 |
| 3 | 10,380 | 75.00 | 10.9 | Upper Marker | 113.00 |

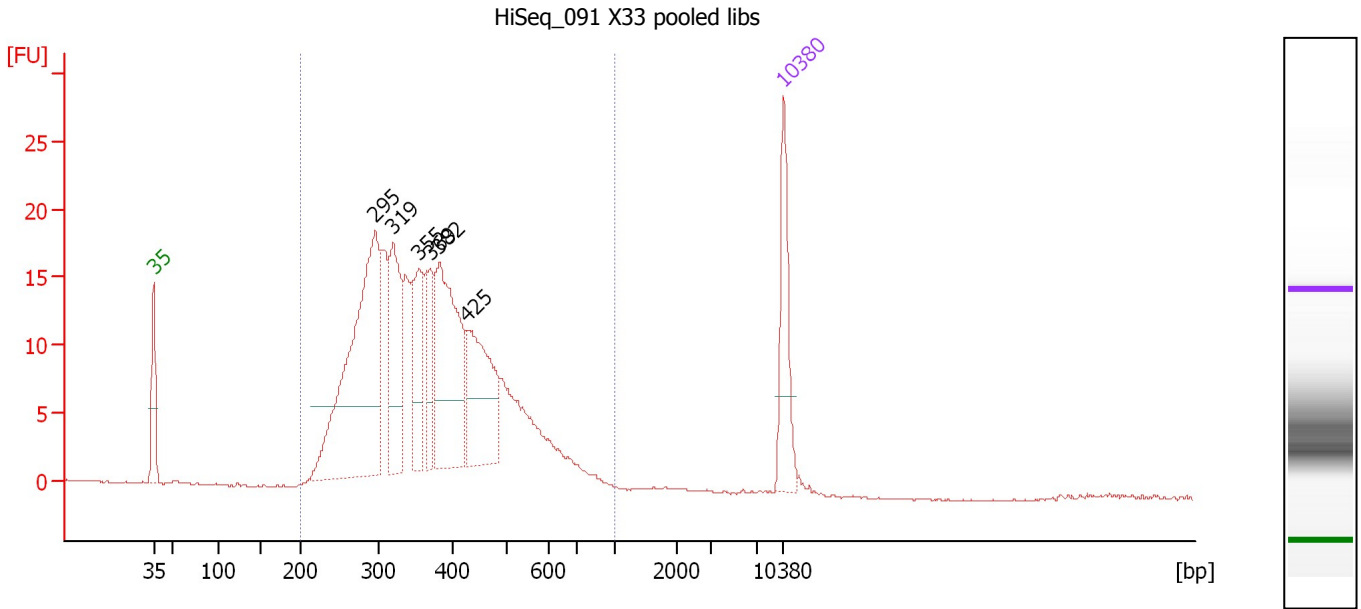
Region table for sample 4 : 81S blue pippin KAPA lib (1:2)

| From [bp] | Average Size [bp] | To [bp] | Corr. Area | Molarity [pmol/l] | Co % of lor Total | Size distribution in CV [%] | Conc. [pg/μl] |
|-----------|-------------------|---------|------------|-------------------|-------------------|-----------------------------|---------------|
| 218 | 285 | 351 | 253.6 | 8,185.5 | 100 | 5.2 | 1,537.68 |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-06-04\2015-06-04_002.xad

Created: 6/4/2015 12:42:56 PM
 Modified: 6/4/2015 1:14:27 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : HiSeq_091 X33 pooled libs

Number of peaks found: 6 Corr. Area 1: 382.3
 Noise: 0.1

Peak table for sample 5 : HiSeq_091 X33 pooled libs

| 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 | 295 | 434.32 | 2,229.6 | | 67.64 |
| 3 | 319 | 148.71 | 705.5 | | 69.65 |
| 4 | 355 | 87.52 | 373.8 | | 72.55 |
| 5 | 369 | 61.83 | 254.2 | | 73.68 |
| 6 | 382 | 234.56 | 931.4 | | 74.74 |
| 7 | 425 | 159.44 | 567.9 | | 77.76 |
| 8 | 10,380 | 75.00 | 10.9 | Upper Marker | 113.00 |

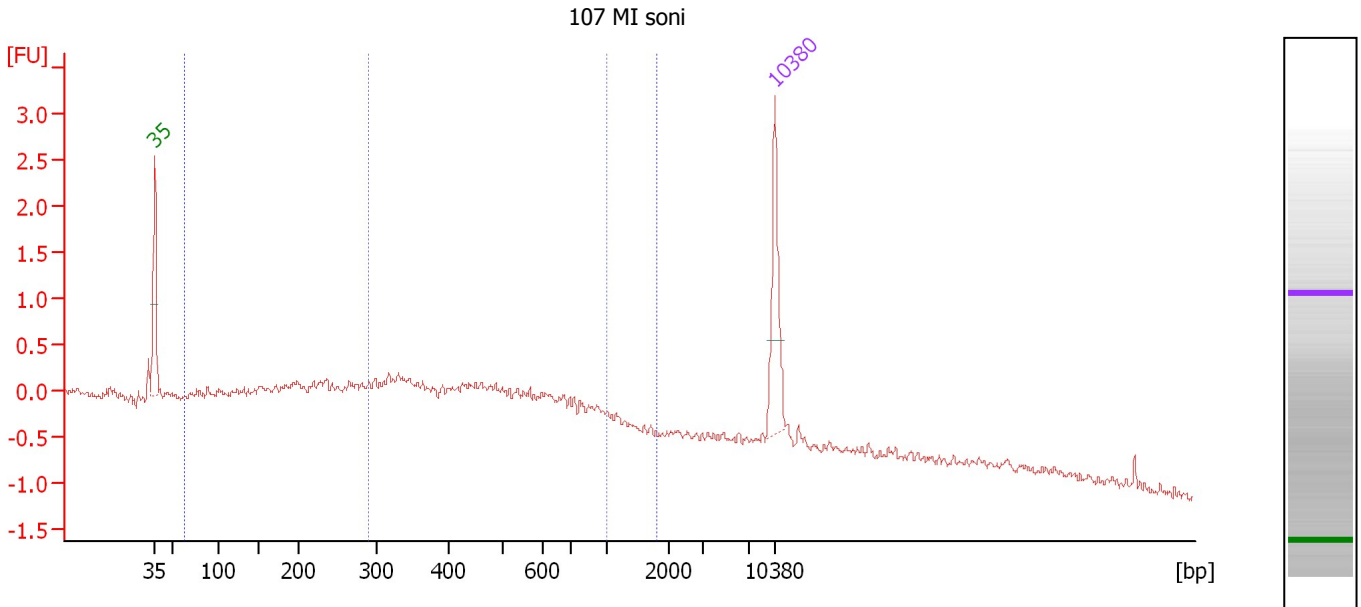
Region table for sample 5 : HiSeq_091 X33 pooled libs

| From [bp] | Average Size [bp] | To [bp] | Corr. Area | Molarity [pmol/l] | Co % of Ior Total | Size distribution in CV [%] | Conc. [pg/μl] |
|-----------|-------------------|---------|------------|-------------------|-------------------|-----------------------------|---------------|
| 200 | 381 | 1,000 | 382.3 | 7,338.2 | 99 | 27.9 | 1,685.49 |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-06-04\2015-06-04_002.xad

Created: 6/4/2015 12:42:56 PM
 Modified: 6/4/2015 1:14:27 PM

Electropherogram Summary Continued ...



Setpoint Deviations for sample 6 : 107 MI soni

Height Threshold [FU] : 1

Overall Results for sample 6 : 107 MI soni

Number of peaks found: 0 Corr. Area 1: 13.3
 Noise: 0.1 Corr. Area 2: 21.9

Peak table for sample 6 : 107 MI soni

| Pea | 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 |

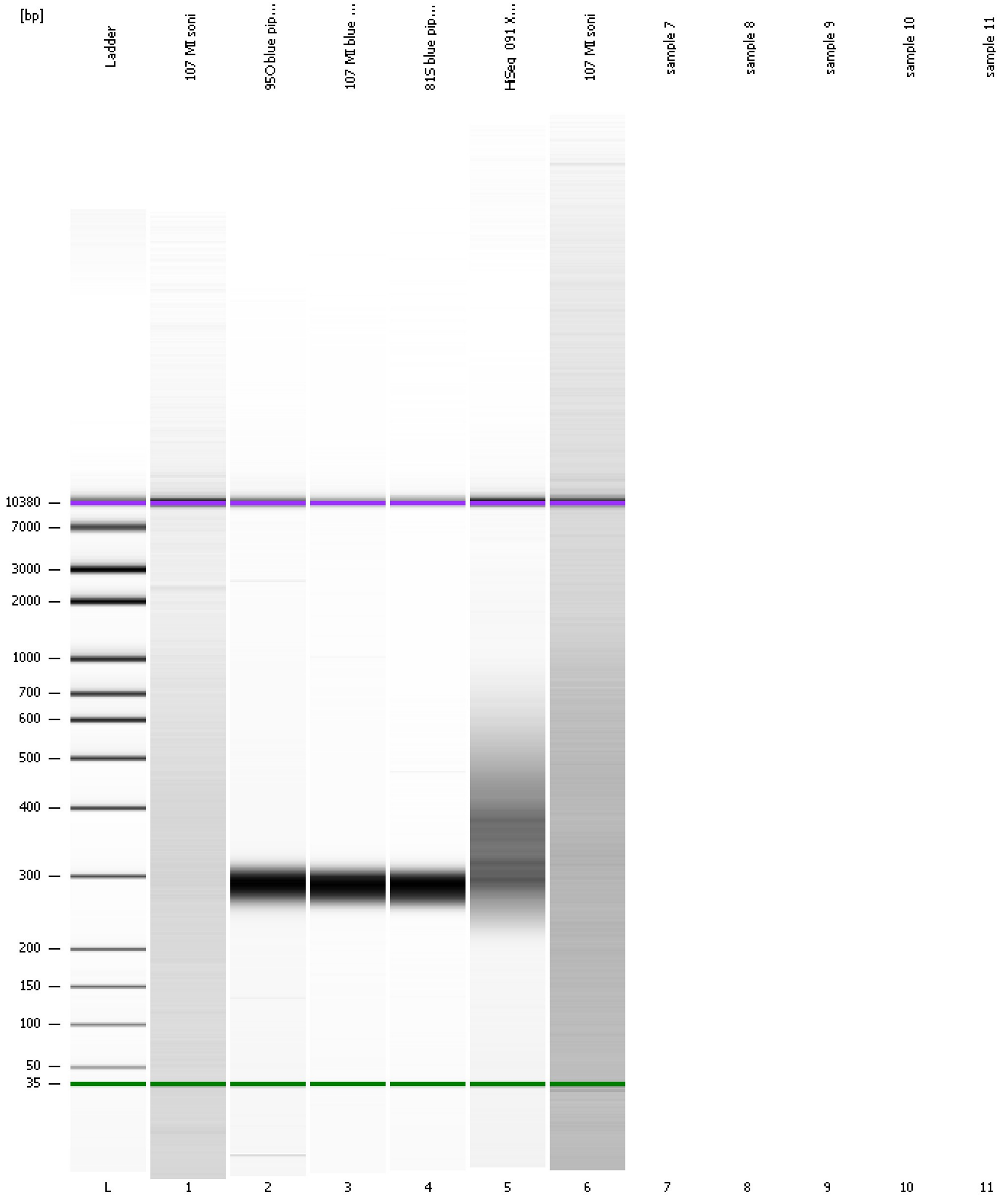
Region table for sample 6 : 107 MI soni

| From [bp] | Average Size [bp] | To [bp] | Corr. Area | Molarity [pmol/l] | Co % of lor Total | Size distribution in CV [%] | Conc. [pg/μl] |
|-----------|-------------------|---------|------------|-------------------|-------------------|-----------------------------|---------------|
| 63 | 477 | 1,793 | 21.9 | 5,550.8 | 76 | 65.2 | 979.84 |
| 290 | 506 | 1,000 | 13.3 | 1,881.4 | 46 | 33.7 | 547.05 |

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-06-04\2015-06-04_002.xad

Created: 6/4/2015 12:42:56 PM
Modified: 6/4/2015 1:14:27 PM

Gel Image

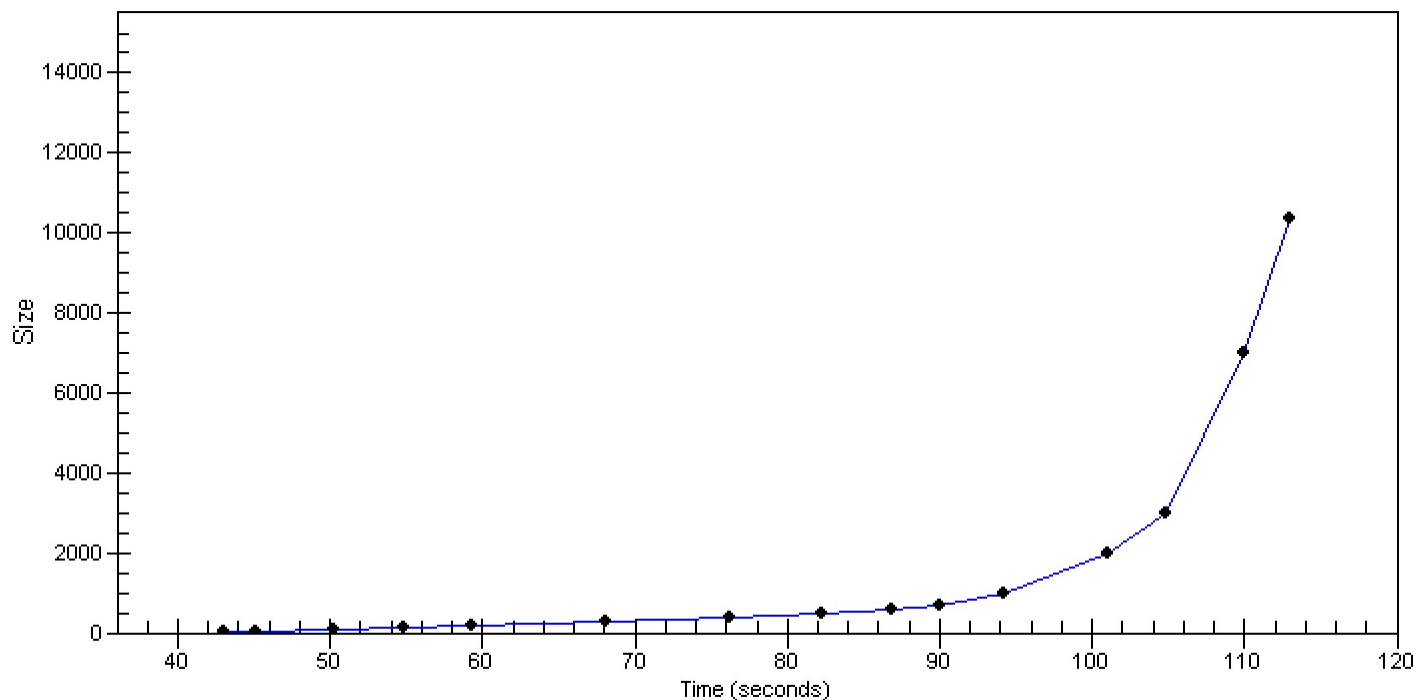


Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-06-04\2015-06-04_002.xad

Created: 6/4/2015 12:42:56 PM
Modified: 6/4/2015 1:14:27 PM

Curves

Standard Curve



Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-06-04\2015-06-04_002.xad

Created: 6/4/2015 12:42:56 PM
Modified: 6/4/2015 1:14:27 PM

Invalid Samples

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.