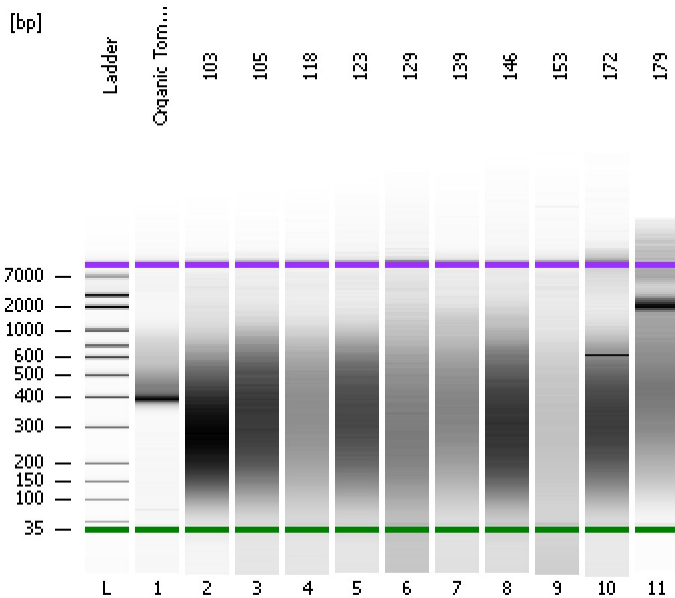


Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-10\2015-11-10_002.xad

Created: 11/10/2015 10:22:45 AM
Modified: 11/10/2015 11:03:14 AM

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

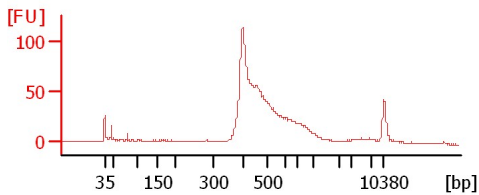
Chip Information:

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

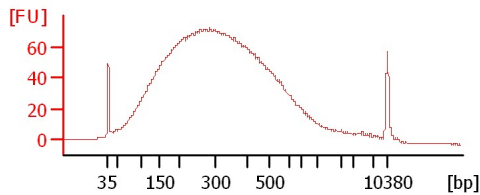
Organic Tomato Farm 16S BP

103

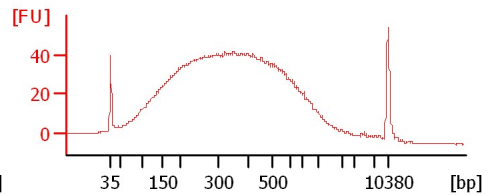
105



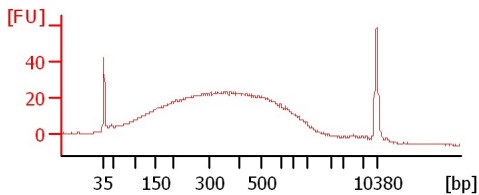
118



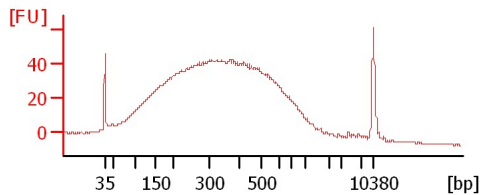
123



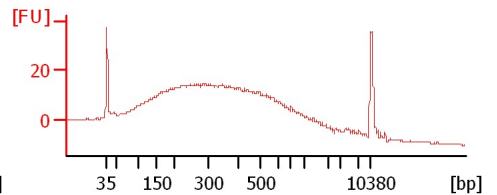
129



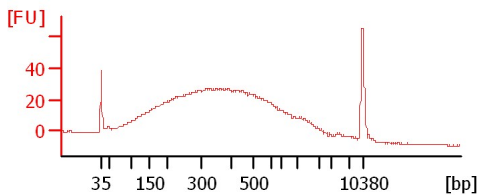
139



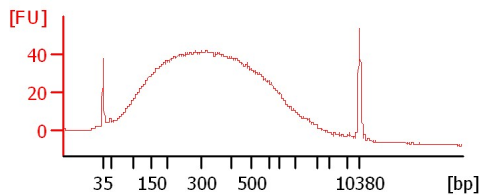
146



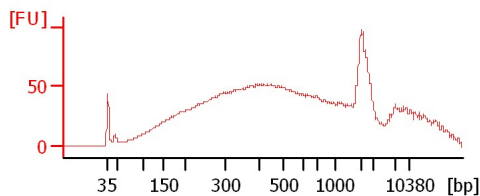
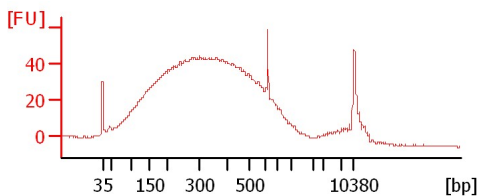
153



172



179



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-10\2015-11-10_002.xad

Created: 11/10/2015 10:22:45 AM
 Modified: 11/10/2015 11:03:14 AM

Electrophoresis File Run Summary (Chip Summary)

| Sample Name | Sample Comment | Rest. Digest | Status | Observation | Result Label | Result Color |
|----------------------------|----------------|--------------------------|--------|-------------|--------------|--------------|
| Organic Tomato Farm 16S BP | | <input type="checkbox"/> | ✓ | | | |
| 103 | | <input type="checkbox"/> | ✓ | | | |
| 105 | | <input type="checkbox"/> | ✓ | | | |
| 118 | | <input type="checkbox"/> | ✓ | | | |
| 123 | | <input type="checkbox"/> | ✓ | | | |
| 129 | | <input type="checkbox"/> | ✓ | | | |
| 139 | | <input type="checkbox"/> | ✓ | | | |
| 146 | | <input type="checkbox"/> | ✓ | | | |
| 153 | | <input type="checkbox"/> | ✓ | | | |
| 172 | | <input type="checkbox"/> | ✓ | | | |
| 179 | | <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\2015-11-10\2015-11-10_002.xad

Created: 11/10/2015 10:22:45 AM
Modified: 11/10/2015 11:03:14 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

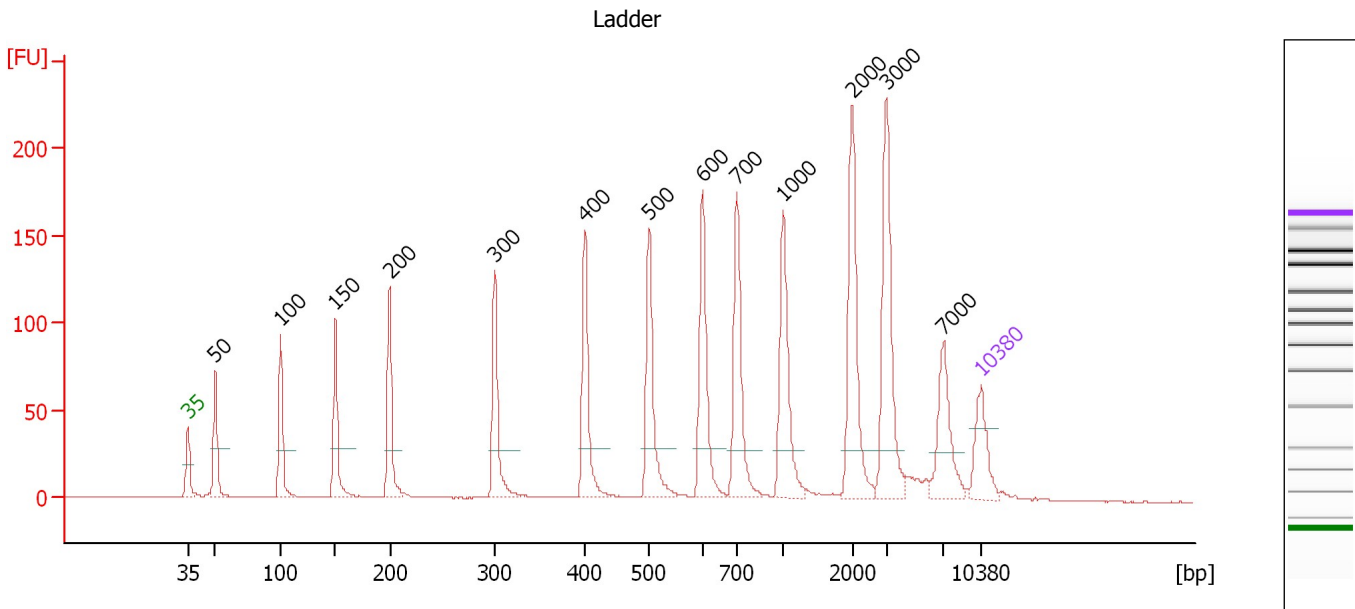
Ladder

| 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:\...ents and Settings\Bioanalyzer\2015-11-10\2015-11-10_002.xad

Created: 11/10/2015 10:22:45 AM
 Modified: 11/10/2015 11:03:14 AM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.2

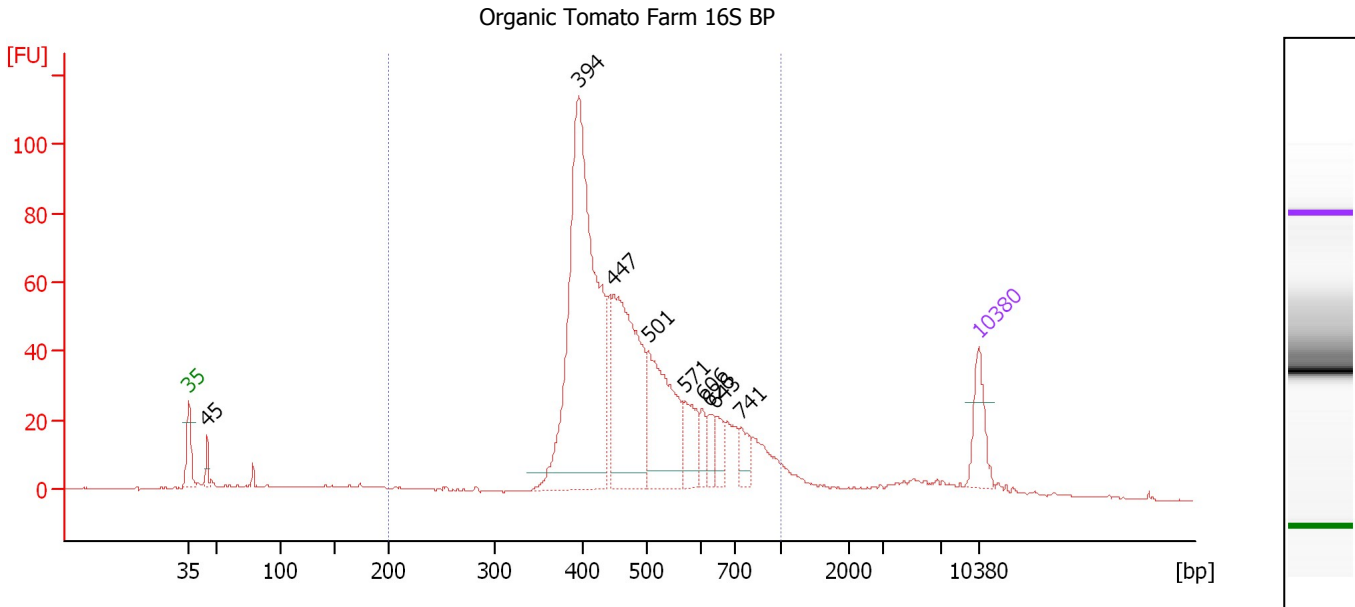
Peak table for Ladder

| 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 | 45.40 |
| 3 | 100 | 150.00 | 2,272.7 | Ladder Peak | 51.19 |
| 4 | 150 | 150.00 | 1,515.2 | Ladder Peak | 55.98 |
| 5 | 200 | 150.00 | 1,136.4 | Ladder Peak | 60.78 |
| 6 | 300 | 150.00 | 757.6 | Ladder Peak | 70.05 |
| 7 | 400 | 150.00 | 568.2 | Ladder Peak | 78.00 |
| 8 | 500 | 150.00 | 454.5 | Ladder Peak | 83.69 |
| 9 | 600 | 150.00 | 378.8 | Ladder Peak | 88.40 |
| 10 | 700 | 150.00 | 324.7 | Ladder Peak | 91.41 |
| 11 | 1,000 | 150.00 | 227.3 | Ladder Peak | 95.50 |
| 12 | 2,000 | 150.00 | 113.6 | Ladder Peak | 101.62 |
| 13 | 3,000 | 150.00 | 75.8 | Ladder Peak | 104.63 |
| 14 | 7,000 | 150.00 | 32.5 | Ladder Peak | 109.66 |
| 15 | 10,380 | 75.00 | 10.9 | Upper Marker | 113.00 |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-10\2015-11-10_002.xad

Created: 11/10/2015 10:22:45 AM
 Modified: 11/10/2015 11:03:14 AM

Electropherogram Summary Continued ...



Overall Results for sample 1 : Organic Tomato Farm 16S BP

Number of peaks found: 9 Corr. Area 1: 989.5
 Noise: 0.2

Peak table for sample 1 : Organic Tomato Farm 16S BP

| 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 | 45 | 36.15 | 1,207.9 | | 44.65 |
| 3 | 394 | 1,089.45 | 4,185.8 | | 77.55 |
| 4 | 447 | 513.89 | 1,742.2 | | 80.67 |
| 5 | 501 | 332.70 | 1,006.0 | | 83.74 |
| 6 | 571 | 101.90 | 270.2 | | 87.05 |
| 7 | 606 | 41.07 | 102.8 | | 88.56 |
| 8 | 626 | 39.32 | 95.2 | | 89.18 |
| 9 | 643 | 50.47 | 118.9 | | 89.70 |
| 10 | 741 | 44.19 | 90.4 | | 91.97 |
| 11 | 10,380 | 75.00 | 10.9 | Upper Marker | 113.00 |

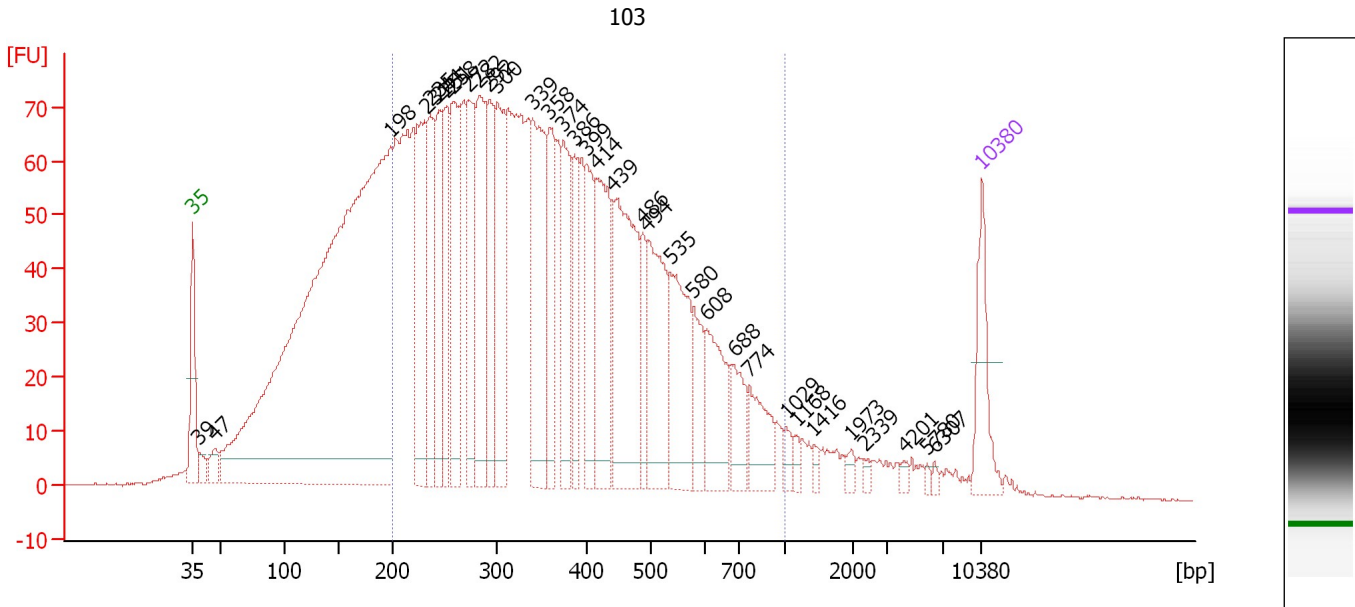
Region table for sample 1 : Organic Tomato Farm 16S BP

| 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 | 496 | 989.5 | 8,653.7 | 2,620.06 | 87 | 26.4 |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-10\2015-11-10_002.xad

Created: 11/10/2015 10:22:45 AM
 Modified: 11/10/2015 11:03:14 AM

Electropherogram Summary Continued ...



Overall Results for sample 2 : 103

Number of peaks found: 34 Corr. Area 1: 2,486.4
 Noise: 0.3

Peak table for sample 2 : 103

| 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 | 39 | 23.63 | 928.9 | | 43.57 |
| 3 | 47 | 35.07 | 1,120.3 | | 44.99 |
| 4 | 198 | 2,168.55 | 16,621.6 | | 60.56 |
| 5 | 231 | 268.34 | 1,757.8 | | 63.68 |
| 6 | 235 | 172.30 | 1,109.1 | | 64.06 |
| 7 | 244 | 170.24 | 1,056.8 | | 64.87 |
| 8 | 251 | 169.61 | 1,023.0 | | 65.53 |
| 9 | 258 | 228.64 | 1,343.5 | | 66.14 |
| 10 | 272 | 175.82 | 980.7 | | 67.42 |
| 11 | 282 | 229.87 | 1,233.5 | | 68.42 |
| 12 | 292 | 178.25 | 924.7 | | 69.32 |
| 13 | 300 | 215.92 | 1,091.5 | | 70.03 |
| 14 | 339 | 271.16 | 1,212.0 | | 73.15 |
| 15 | 358 | 141.20 | 597.6 | | 74.66 |
| 16 | 374 | 154.68 | 627.5 | | 75.89 |
| 17 | 386 | 100.24 | 393.4 | | 76.89 |
| 18 | 399 | 129.50 | 491.6 | | 77.93 |
| 19 | 414 | 210.05 | 769.3 | | 78.78 |
| 20 | 439 | 317.43 | 1,094.3 | | 80.25 |
| 21 | 486 | 69.52 | 216.7 | | 82.90 |
| 22 | 494 | 191.58 | 587.2 | | 83.37 |
| 23 | 535 | 177.38 | 501.9 | | 85.36 |
| 24 | 580 | 72.75 | 190.1 | | 87.44 |
| 25 | 608 | 119.21 | 297.3 | | 88.63 |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-10\2015-11-10_002.xad

Created: 11/10/2015 10:22:45 AM
 Modified: 11/10/2015 11:03:14 AM

Electropherogram Summary Continued ...

... Peak table for sample 2 : 103

| Peak | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations | Aligned Migration Time [s] |
|------|-----------|---------------|-------------------|--------------|----------------------------|
| 26 | 688 | 61.71 | 135.9 | | 91.04 |
| 27 | 774 | 71.86 | 140.7 | | 92.41 |
| 28 | 1,029 | 15.71 | 23.1 | | 95.68 |
| 29 | 1,168 | 10.53 | 13.7 | | 96.53 |
| 30 | 1,416 | 8.96 | 9.6 | | 98.04 |
| 31 | 1,973 | 9.44 | 7.2 | | 101.45 |
| 32 | 2,339 | 7.11 | 4.6 | | 102.63 |
| 33 | 4,201 | 6.92 | 2.5 | | 106.14 |
| 34 | 5,780 | 4.21 | 1.1 | | 108.13 |
| 35 | 6,307 | 4.22 | 1.0 | | 108.79 |
| 36 | 10,380 | 75.00 | 10.9 | Upper Marker | 113.00 |

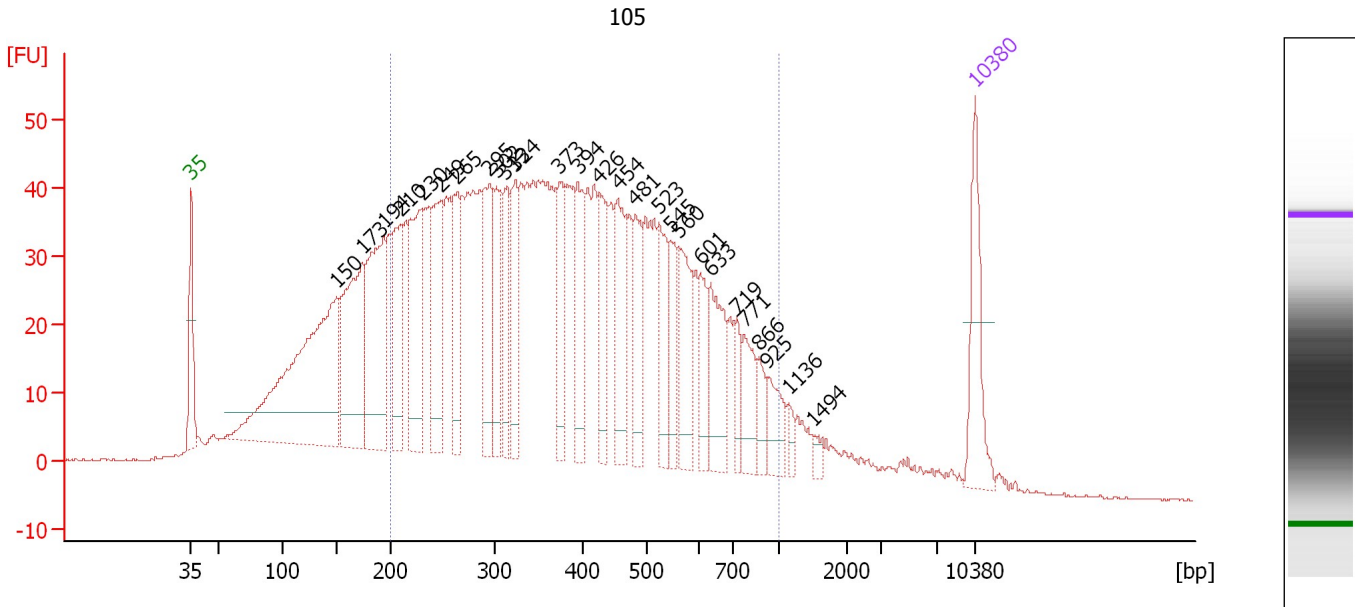
Region table for sample 2 : 103

| 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 | 381 | 2,486.4 | 25,246.3 | 5,346.40 | 68 | 38.7 |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-10\2015-11-10_002.xad

Created: 11/10/2015 10:22:45 AM
 Modified: 11/10/2015 11:03:14 AM

Electropherogram Summary Continued ...



Overall Results for sample 3 : 105

Number of peaks found: 27 Corr. Area 1: 1,687.0
 Noise: 0.2

Peak table for sample 3 : 105

| 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 | 150 | 535.47 | 5,420.7 | | 55.95 |
| 3 | 173 | 250.44 | 2,187.2 | | 58.24 |
| 4 | 194 | 249.14 | 1,947.4 | | 60.19 |
| 5 | 210 | 119.26 | 862.4 | | 61.67 |
| 6 | 230 | 179.82 | 1,184.1 | | 63.57 |
| 7 | 249 | 154.09 | 937.2 | | 65.33 |
| 8 | 265 | 100.33 | 574.7 | | 66.76 |
| 9 | 295 | 128.95 | 661.5 | | 69.62 |
| 10 | 302 | 88.29 | 442.4 | | 70.24 |
| 11 | 313 | 80.04 | 388.0 | | 71.05 |
| 12 | 324 | 91.51 | 428.0 | | 71.95 |
| 13 | 373 | 88.51 | 359.5 | | 75.86 |
| 14 | 394 | 99.30 | 381.9 | | 77.52 |
| 15 | 426 | 88.31 | 314.2 | | 79.48 |
| 16 | 454 | 97.76 | 326.0 | | 81.10 |
| 17 | 481 | 82.92 | 261.1 | | 82.62 |
| 18 | 523 | 75.29 | 218.2 | | 84.76 |
| 19 | 545 | 51.47 | 143.1 | | 85.81 |
| 20 | 560 | 94.17 | 254.7 | | 86.52 |
| 21 | 601 | 48.78 | 123.0 | | 88.43 |
| 22 | 633 | 91.94 | 220.2 | | 89.38 |
| 23 | 719 | 30.83 | 65.0 | | 91.67 |
| 24 | 771 | 52.32 | 102.8 | | 92.38 |
| 25 | 866 | 26.91 | 47.1 | | 93.67 |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-10\2015-11-10_002.xad

Created: 11/10/2015 10:22:45 AM
 Modified: 11/10/2015 11:03:14 AM

Electropherogram Summary Continued ...

... Peak table for sample 3 : 105

| Peak | Size [bp] | Conc. [pg/ μ l] | Molarity [pmol/l] | Observations | Aligned Migration Time [s] |
|------|-----------|---------------------|-------------------|--------------|----------------------------|
| 26 | 925 | 40.07 | 65.6 | | 94.48 |
| 27 | 1,136 | 11.53 | 15.4 | | 96.33 |
| 28 | 1,494 | 9.84 | 10.0 | | 98.52 |
| 29 | 10,380 | 75.00 | 10.9 | Upper Marker | 113.00 |

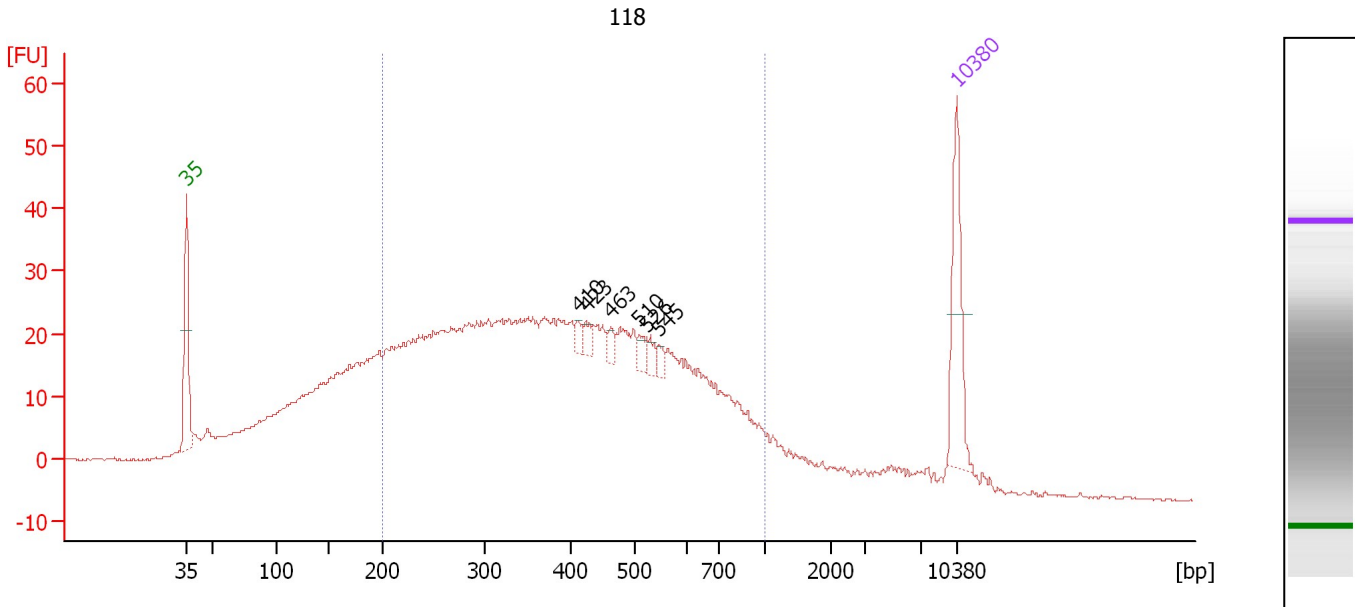
Region table for sample 3 : 105

| From [bp] | To [bp] | Average Size [bp] | Corr. Area | Molarity [pmol/l] | Co Conc. lor [pg/ μ l] | % of Total | Size distribution in CV [%] |
|-----------|---------|-------------------|------------|-------------------|----------------------------|------------|-----------------------------|
| 200 | 1,000 | 413 | 1,687.0 | 16,649.5 | 3,728.04 | 73 | 39.6 |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-10\2015-11-10_002.xad

Created: 11/10/2015 10:22:45 AM
 Modified: 11/10/2015 11:03:14 AM

Electropherogram Summary Continued ...



Overall Results for sample 4 : 118

Number of peaks found: 6 Corr. Area 1: 979.4
 Noise: 0.2

Peak table for sample 4 : 118

| 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 | 410 | 8.31 | 30.7 | | 78.56 |
| 3 | 423 | 11.24 | 40.2 | | 79.33 |
| 4 | 463 | 10.47 | 34.3 | | 81.56 |
| 5 | 510 | 12.28 | 36.5 | | 84.18 |
| 6 | 526 | 11.29 | 32.5 | | 84.90 |
| 7 | 545 | 8.48 | 23.6 | | 85.82 |
| 8 | 10,380 | 75.00 | 10.9 | Upper Marker | 113.00 |

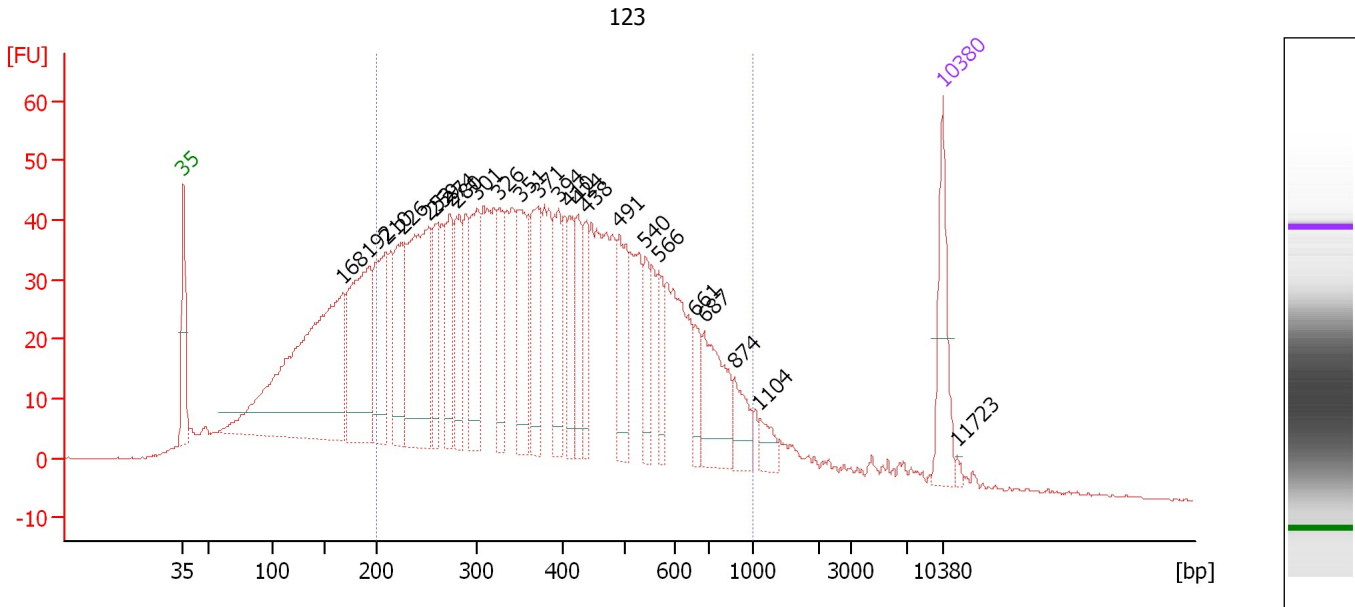
Region table for sample 4 : 118

| From [bp] | To [bp] | Average Size [bp] | Corr. Area | Molarity [pmol/l] | Co Conc. [pg/μl] | % of Total | Size distribution in CV [%] |
|-----------|---------|-------------------|------------|-------------------|------------------|------------|-----------------------------|
| 200 | 1,000 | 421 | 979.4 | 9,910.6 | 2,254.77 | 71 | 39.6 |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-10\2015-11-10_002.xad

Created: 11/10/2015 10:22:45 AM
 Modified: 11/10/2015 11:03:14 AM

Electropherogram Summary Continued ...



Overall Results for sample 5 : 123

Number of peaks found: 24 Corr. Area 1: 1,714.2
 Noise: 0.2

Peak table for sample 5 : 123

| 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 | 168 | 637.33 | 5,735.2 | | 57.75 |
| 3 | 192 | 281.19 | 2,213.8 | | 60.06 |
| 4 | 210 | 171.66 | 1,240.4 | | 61.68 |
| 5 | 226 | 126.90 | 852.3 | | 63.15 |
| 6 | 252 | 314.14 | 1,891.9 | | 65.56 |
| 7 | 259 | 91.07 | 532.7 | | 66.25 |
| 8 | 274 | 109.76 | 607.3 | | 67.63 |
| 9 | 280 | 96.19 | 520.1 | | 68.22 |
| 10 | 301 | 125.43 | 631.2 | | 70.13 |
| 11 | 326 | 78.55 | 364.6 | | 72.15 |
| 12 | 351 | 125.21 | 541.2 | | 74.07 |
| 13 | 371 | 120.98 | 494.1 | | 75.69 |
| 14 | 394 | 87.42 | 335.8 | | 77.56 |
| 15 | 410 | 69.96 | 258.3 | | 78.59 |
| 16 | 424 | 64.19 | 229.3 | | 79.38 |
| 17 | 438 | 62.32 | 215.6 | | 80.16 |
| 18 | 491 | 102.38 | 316.1 | | 83.16 |
| 19 | 540 | 48.15 | 135.1 | | 85.57 |
| 20 | 566 | 42.75 | 114.4 | | 86.80 |
| 21 | 661 | 34.91 | 80.0 | | 90.24 |
| 22 | 687 | 111.63 | 246.1 | | 91.03 |
| 23 | 874 | 42.62 | 73.9 | | 93.78 |
| 24 | 1,104 | 22.08 | 30.3 | | 96.14 |
| 25 | 10,380 | 75.00 | 10.9 | Upper Marker | 113.00 |

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-10\2015-11-10_002.xad

Created: 11/10/2015 10:22:45 AM
Modified: 11/10/2015 11:03:14 AM

Electropherogram Summary Continued ...**... Peak table for sample 5 : 123**

| Peak | Size [bp] | Conc. [pg/ μ l] | Molarity [pmol/l] | Observations | Aligned Migration Time [s] |
|------|-----------|---------------------|-------------------|--------------|----------------------------|
| 26 | 11,723 | 0.00 | 0.0 | | 114.33 |

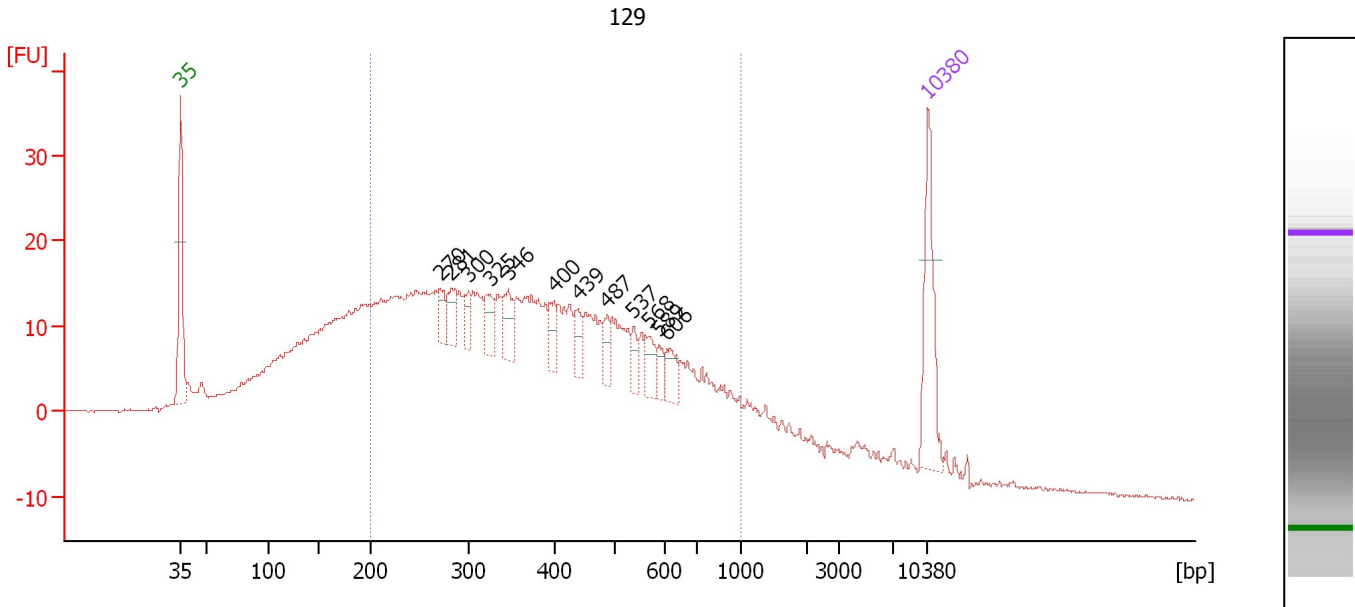
Region table for sample 5 : 123

| From [bp] | To [bp] | Average Size [bp] | Corr. Area | Molarity [pmol/l] | Co Conc. lor [pg/ μ l] | % of Total | Size distribution in CV [%] |
|-----------|---------|-------------------|------------|-------------------|----------------------------|------------|-----------------------------|
| 200 | 1,000 | 412 | 1,714.2 | 16,077.3 | 3,606.80 | 72 | 39.2 |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-10\2015-11-10_002.xad

Created: 11/10/2015 10:22:45 AM
 Modified: 11/10/2015 11:03:14 AM

Electropherogram Summary Continued ...



Overall Results for sample 6 : 129

Number of peaks found: 12 Corr. Area 1: 691.3
 Noise: 0.2

Peak table for sample 6 : 129

| 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 | 270 | 22.11 | 124.0 | | 67.28 |
| 3 | 281 | 27.68 | 149.0 | | 68.33 |
| 4 | 300 | 19.51 | 98.6 | | 70.03 |
| 5 | 325 | 28.49 | 132.8 | | 72.03 |
| 6 | 346 | 32.84 | 143.7 | | 73.73 |
| 7 | 400 | 23.18 | 87.7 | | 78.02 |
| 8 | 439 | 22.07 | 76.2 | | 80.22 |
| 9 | 487 | 17.50 | 54.4 | | 82.97 |
| 10 | 537 | 14.78 | 41.7 | | 85.42 |
| 11 | 568 | 21.42 | 57.2 | | 86.87 |
| 12 | 589 | 12.39 | 31.9 | | 87.87 |
| 13 | 606 | 22.00 | 55.0 | | 88.57 |
| 14 | 10,380 | 75.00 | 10.9 | Upper Marker | 113.00 |

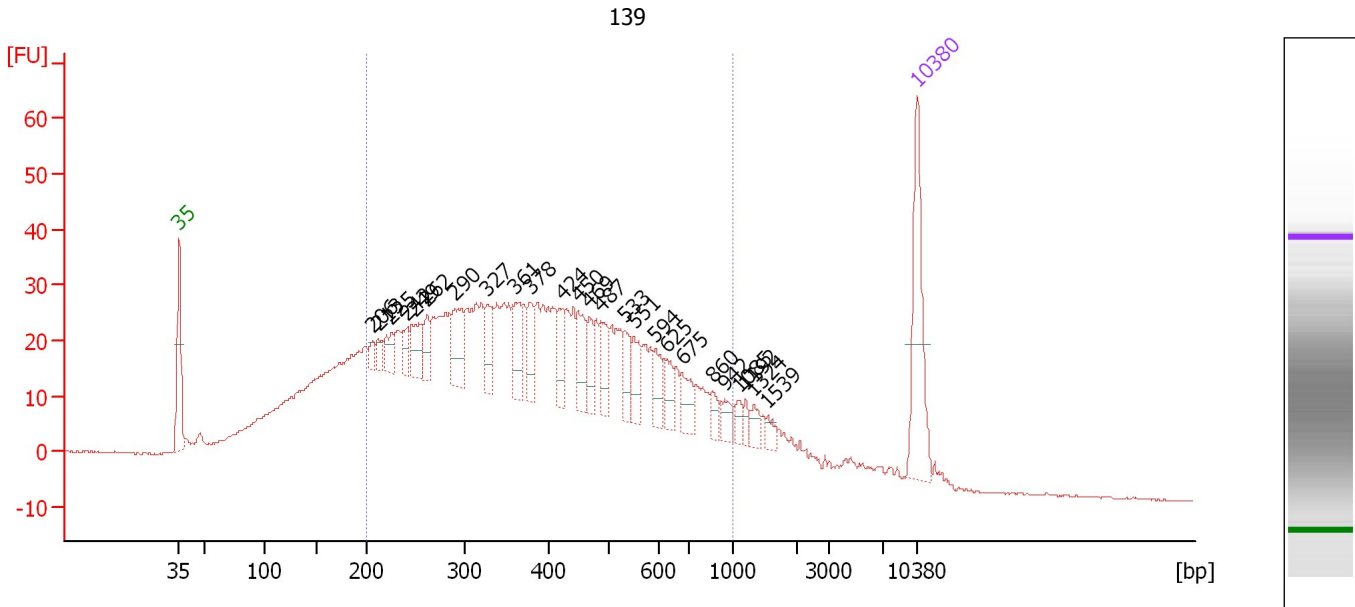
Region table for sample 6 : 129

| 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 | 416 | 691.3 | 9,446.8 | 2,111.10 | 67 | 40.9 |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-10\2015-11-10_002.xad

Created: 11/10/2015 10:22:45 AM
 Modified: 11/10/2015 11:03:14 AM

Electropherogram Summary Continued ...



Overall Results for sample 7 : 139

Number of peaks found: 25 Corr. Area 1: 1,146.1
 Noise: 0.1

Peak table for sample 7 : 139

| 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 | 206 | 10.36 | 76.1 | | 61.35 |
| 3 | 213 | 12.99 | 92.6 | | 61.95 |
| 4 | 225 | 20.65 | 139.0 | | 63.12 |
| 5 | 242 | 17.54 | 110.0 | | 64.63 |
| 6 | 249 | 34.66 | 210.8 | | 65.34 |
| 7 | 262 | 21.68 | 125.3 | | 66.55 |
| 8 | 290 | 52.72 | 275.4 | | 69.13 |
| 9 | 327 | 32.69 | 151.4 | | 72.21 |
| 10 | 361 | 37.19 | 156.1 | | 74.89 |
| 11 | 378 | 26.56 | 106.5 | | 76.26 |
| 12 | 424 | 25.14 | 89.9 | | 79.34 |
| 13 | 450 | 35.15 | 118.3 | | 80.86 |
| 14 | 469 | 24.76 | 80.0 | | 81.92 |
| 15 | 487 | 27.67 | 86.0 | | 82.98 |
| 16 | 533 | 22.85 | 64.9 | | 85.25 |
| 17 | 551 | 25.06 | 68.9 | | 86.11 |
| 18 | 594 | 22.48 | 57.3 | | 88.13 |
| 19 | 625 | 19.30 | 46.8 | | 89.14 |
| 20 | 675 | 22.79 | 51.1 | | 90.66 |
| 21 | 860 | 10.84 | 19.1 | | 93.59 |
| 22 | 942 | 10.42 | 16.8 | | 94.70 |
| 23 | 1,085 | 8.61 | 12.0 | | 96.02 |
| 24 | 1,192 | 6.61 | 8.4 | | 96.68 |
| 25 | 1,324 | 10.44 | 11.9 | | 97.48 |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-10\2015-11-10_002.xad

Created: 11/10/2015 10:22:45 AM
 Modified: 11/10/2015 11:03:14 AM

Electropherogram Summary Continued ...

... Peak table for sample 7 : 139

| Peak | Size [bp] | Conc. [pg/ μ l] | Molarity [pmol/l] | Observations | Aligned Migration Time [s] |
|------|-----------|---------------------|-------------------|--------------|----------------------------|
| 26 | 1,539 | 7.18 | 7.1 | | 98.80 |
| 27 | 10,380 | 75.00 | 10.9 | Upper Marker | 113.00 |

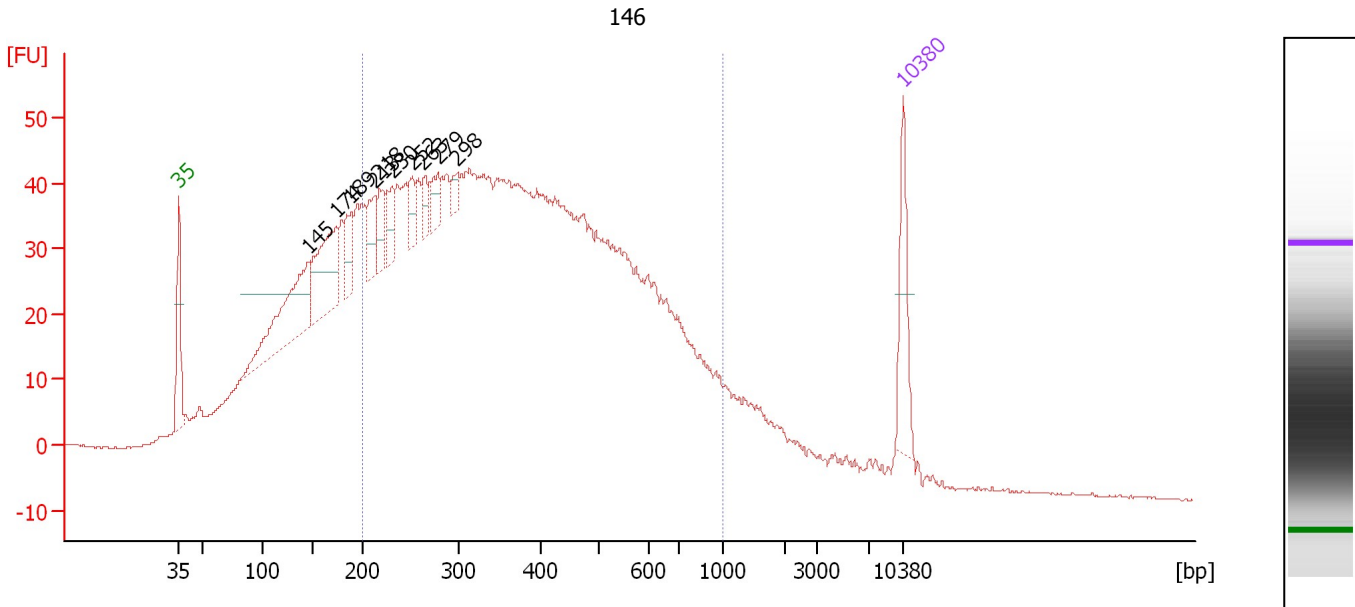
Region table for sample 7 : 139

| From [bp] | To [bp] | Average Size [bp] | Corr. Area | Molarity [pmol/l] | Co Conc. lor [pg/ μ l] | % of Total | Size distribution in CV [%] |
|-----------|---------|-------------------|------------|-------------------|----------------------------|------------|-----------------------------|
| 200 | 1,000 | 424 | 1,146.1 | 9,112.9 | 2,086.45 | 72 | 40.1 |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-10\2015-11-10_002.xad

Created: 11/10/2015 10:22:45 AM
 Modified: 11/10/2015 11:03:14 AM

Electropherogram Summary Continued ...



Overall Results for sample 8 : 146

Number of peaks found: 10 Corr. Area 1: 1,665.9
 Noise: 0.1

Peak table for sample 8 : 146

| 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 | 145 | 234.97 | 2,453.1 | | 55.52 |
| 3 | 174 | 179.39 | 1,561.1 | | 58.30 |
| 4 | 189 | 61.98 | 497.9 | | 59.69 |
| 5 | 213 | 60.03 | 427.7 | | 61.96 |
| 6 | 218 | 52.51 | 365.5 | | 62.42 |
| 7 | 230 | 47.84 | 314.6 | | 63.60 |
| 8 | 252 | 37.83 | 227.9 | | 65.56 |
| 9 | 263 | 27.65 | 159.1 | | 66.64 |
| 10 | 279 | 38.35 | 208.4 | | 68.08 |
| 11 | 298 | 20.42 | 103.9 | | 69.84 |
| 12 | 10,380 | 75.00 | 10.9 | Upper Marker | 113.00 |

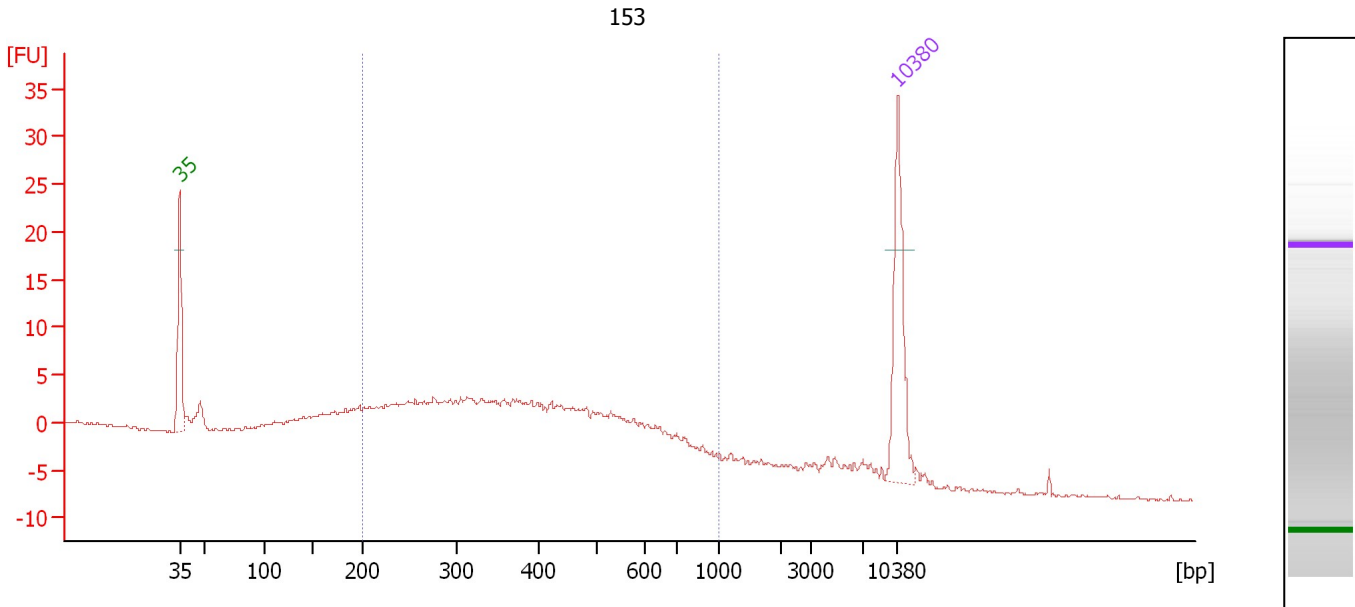
Region table for sample 8 : 146

| 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 | 407 | 1,665.9 | 22,024.3 | 4,863.77 | 69 | 40.3 |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-10\2015-11-10_002.xad

Created: 11/10/2015 10:22:45 AM
 Modified: 11/10/2015 11:03:14 AM

Electropherogram Summary Continued ...



Overall Results for sample 9 : 153

Number of peaks found: 0 Corr. Area 1: 196.5
 Noise: 0.1

Peak table for sample 9 : 153

| 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 |

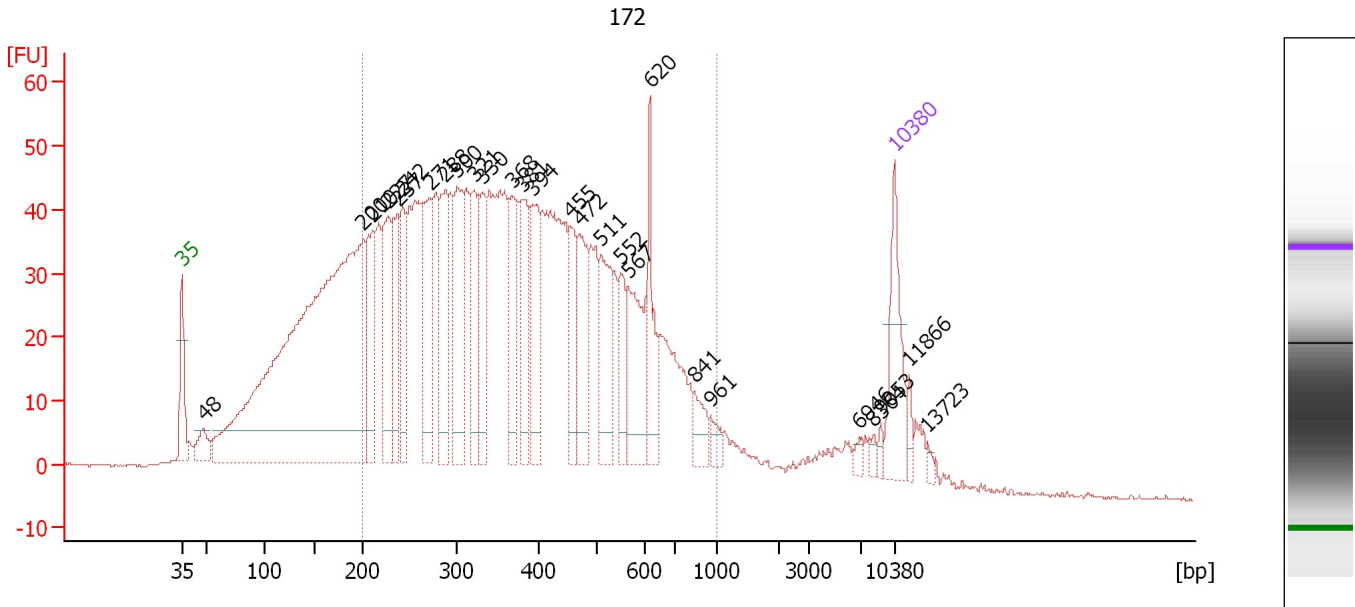
Region table for sample 9 : 153

| 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 | 416 | 196.5 | 2,678.1 | 610.71 | 74 | 38.1 |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-10\2015-11-10_002.xad

Created: 11/10/2015 10:22:45 AM
 Modified: 11/10/2015 11:03:14 AM

Electropherogram Summary Continued ...



Overall Results for sample 10 : 172

Number of peaks found: 27 Corr. Area 1: 1,628.2
 Noise: 0.2

Peak table for sample 10 : 172

| 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 | 48 | 40.37 | 1,271.2 | | 45.10 |
| 3 | 200 | 1,243.16 | 9,394.8 | | 60.83 |
| 4 | 210 | 132.69 | 956.9 | | 61.72 |
| 5 | 227 | 150.45 | 1,006.4 | | 63.24 |
| 6 | 237 | 109.93 | 703.6 | | 64.18 |
| 7 | 242 | 103.42 | 646.6 | | 64.71 |
| 8 | 271 | 147.07 | 823.3 | | 67.33 |
| 9 | 288 | 137.14 | 722.4 | | 68.90 |
| 10 | 300 | 142.47 | 720.8 | | 70.00 |
| 11 | 321 | 106.23 | 502.2 | | 71.68 |
| 12 | 330 | 96.38 | 442.0 | | 72.47 |
| 13 | 368 | 99.78 | 410.8 | | 75.46 |
| 14 | 381 | 101.84 | 405.5 | | 76.45 |
| 15 | 394 | 102.70 | 394.5 | | 77.55 |
| 16 | 455 | 69.09 | 230.2 | | 81.12 |
| 17 | 472 | 97.86 | 313.9 | | 82.12 |
| 18 | 511 | 100.93 | 299.2 | | 84.21 |
| 19 | 552 | 52.66 | 144.5 | | 86.15 |
| 20 | 567 | 110.36 | 295.0 | | 86.84 |
| 21 | 620 | 81.46 | 199.2 | | 88.99 |
| 22 | 841 | 29.27 | 52.7 | | 93.34 |
| 23 | 961 | 15.76 | 24.9 | | 94.96 |
| 24 | 6,946 | 7.00 | 1.5 | | 109.59 |
| 25 | 8,364 | 7.17 | 1.3 | | 111.01 |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-10\2015-11-10_002.xad

Created: 11/10/2015 10:22:45 AM
 Modified: 11/10/2015 11:03:14 AM

Electropherogram Summary Continued ...

... Peak table for sample 10 : 172

| Peak | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations | Aligned Migration Time [s] |
|------|-----------|---------------|-------------------|--------------|----------------------------|
| 26 | 9,053 | 6.55 | 1.1 | | 111.69 |
| 27 | 10,380 | 75.00 | 10.9 | Upper Marker | 113.00 |
| 28 | 11,866 | 0.00 | 0.0 | | 114.47 |
| 29 | 13,723 | 0.00 | 0.0 | | 116.30 |

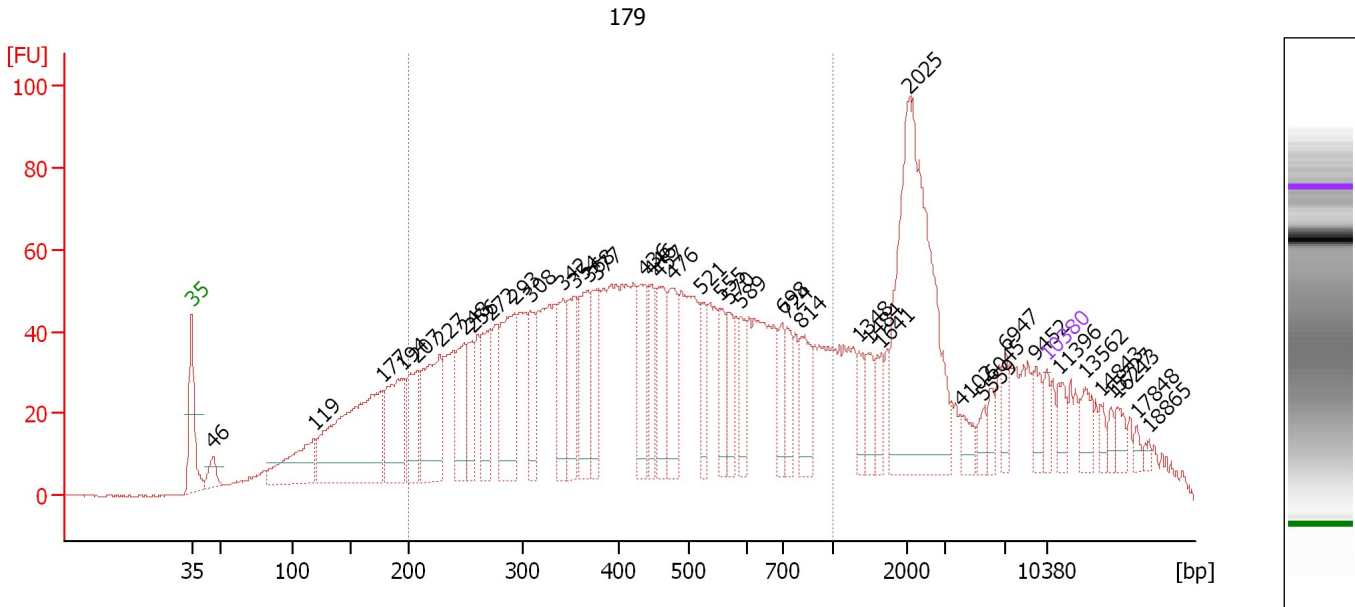
Region table for sample 10 : 172

| 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 | 402 | 1,628.2 | 16,824.2 | 3,713.05 | 70 | 38.7 |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-10\2015-11-10_002.xad

Created: 11/10/2015 10:22:45 AM
 Modified: 11/10/2015 11:03:14 AM

Electropherogram Summary Continued ...



Overall Results for sample 11 : 179

Number of peaks found: 42 Corr. Area 1: 2,035.0
 Noise: 0.2

Peak table for sample 11 : 179

| 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 | 46 | 183.55 | 6,056.4 | | 44.75 |
| 3 | 119 | 698.13 | 8,861.9 | | 53.04 |
| 4 | 177 | 1,942.61 | 16,657.6 | | 58.55 |
| 5 | 194 | 788.30 | 6,157.1 | | 60.21 |
| 6 | 207 | 546.88 | 3,994.5 | | 61.47 |
| 7 | 227 | 898.64 | 5,992.1 | | 63.31 |
| 8 | 248 | 483.41 | 2,948.3 | | 65.27 |
| 9 | 256 | 345.64 | 2,045.9 | | 65.97 |
| 10 | 272 | 479.74 | 2,677.1 | | 67.41 |
| 11 | 293 | 835.86 | 4,319.5 | | 69.42 |
| 12 | 308 | 391.39 | 1,925.4 | | 70.69 |
| 13 | 342 | 432.68 | 1,916.6 | | 73.39 |
| 14 | 354 | 479.37 | 2,054.1 | | 74.31 |
| 15 | 368 | 549.89 | 2,261.5 | | 75.49 |
| 16 | 377 | 425.55 | 1,711.8 | | 76.14 |
| 17 | 436 | 446.33 | 1,549.5 | | 80.07 |
| 18 | 446 | 325.30 | 1,106.0 | | 80.60 |
| 19 | 457 | 477.13 | 1,581.4 | | 81.25 |
| 20 | 476 | 443.50 | 1,410.7 | | 82.34 |
| 21 | 521 | 253.55 | 736.7 | | 84.70 |
| 22 | 555 | 266.46 | 727.6 | | 86.28 |
| 23 | 570 | 254.71 | 677.3 | | 86.97 |
| 24 | 589 | 224.77 | 578.0 | | 87.89 |
| 25 | 698 | 210.56 | 457.2 | | 91.34 |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-10\2015-11-10_002.xad

Created: 11/10/2015 10:22:45 AM
 Modified: 11/10/2015 11:03:14 AM

Electropherogram Summary Continued ...

... Peak table for sample 11 : 179

| Peak | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations | Aligned Migration Time [s] |
|------|-----------|---------------|-------------------|--------------|----------------------------|
| 26 | 724 | 202.33 | 423.5 | | 91.73 |
| 27 | 814 | 319.53 | 595.1 | | 92.96 |
| 28 | 1,348 | 152.34 | 171.2 | | 97.63 |
| 29 | 1,484 | 156.59 | 159.9 | | 98.46 |
| 30 | 1,641 | 150.04 | 138.5 | | 99.42 |
| 31 | 2,025 | 1,884.46 | 1,410.2 | | 101.69 |
| 32 | 4,102 | 99.93 | 36.9 | | 106.01 |
| 33 | 5,559 | 77.74 | 21.2 | | 107.85 |
| 34 | 6,045 | 74.35 | 18.6 | | 108.46 |
| 35 | 6,947 | 118.84 | 25.9 | | 109.59 |
| 36 | 9,452 | 128.50 | 20.6 | | 112.08 |
| 37 | 10,380 | 75.00 | 10.9 | Upper Marker | 113.00 |
| 38 | 11,396 | 0.00 | 0.0 | | 114.00 |
| 39 | 13,562 | 0.00 | 0.0 | | 116.14 |
| 40 | 14,843 | 0.00 | 0.0 | | 117.41 |
| 41 | 15,727 | 0.00 | 0.0 | | 118.28 |
| 42 | 16,213 | 0.00 | 0.0 | | 118.76 |
| 43 | 17,848 | 0.00 | 0.0 | | 120.38 |
| 44 | 18,865 | 0.00 | 0.0 | | 121.38 |

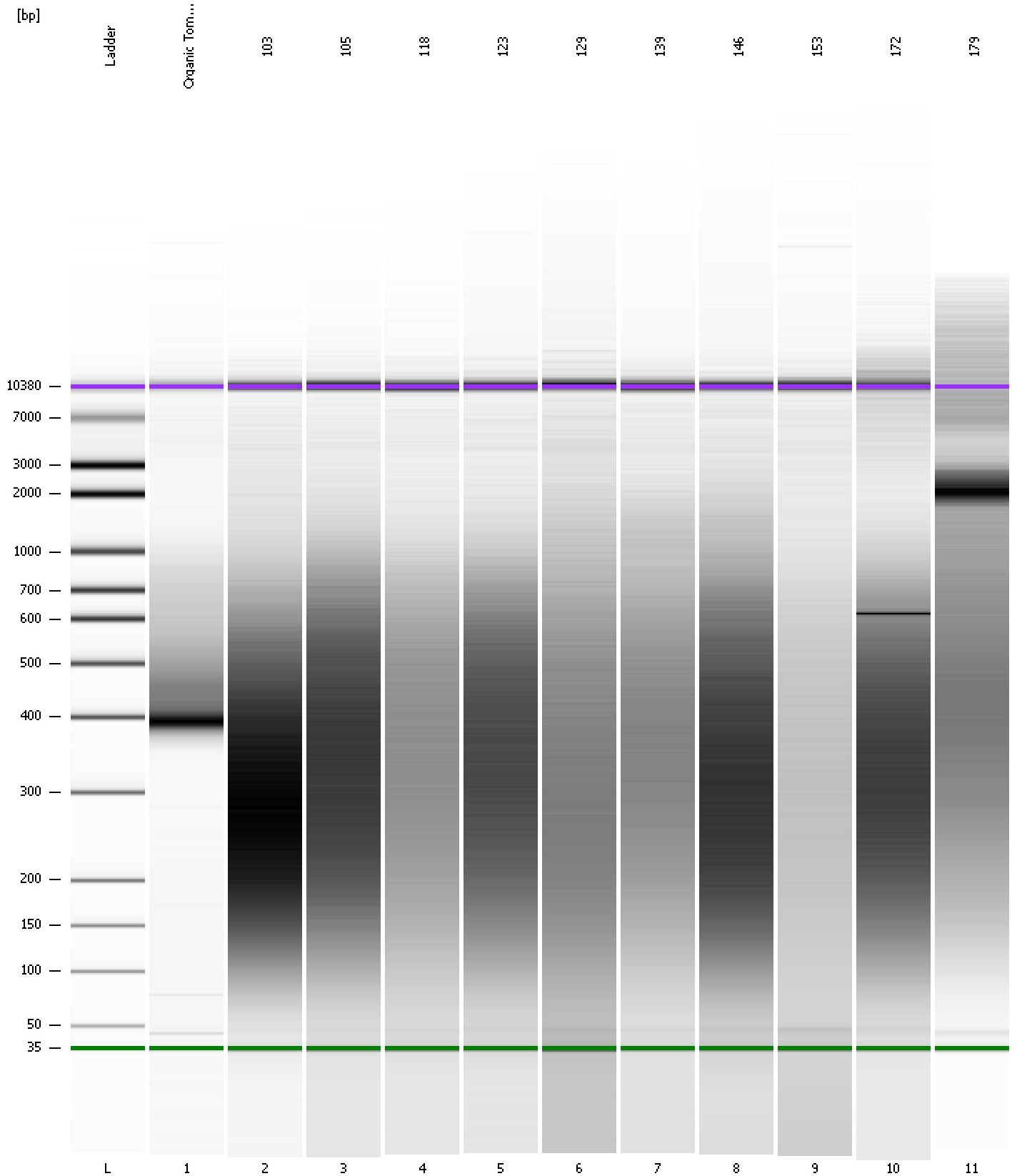
Region table for sample 11 : 179

| 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 | 450 | 2,035.0 | 76,680.2 | 18,323.03 | 62 | 40.5 |

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-10\2015-11-10_002.xad

Created: 11/10/2015 10:22:45 AM
Modified: 11/10/2015 11:03:14 AM

Gel Image

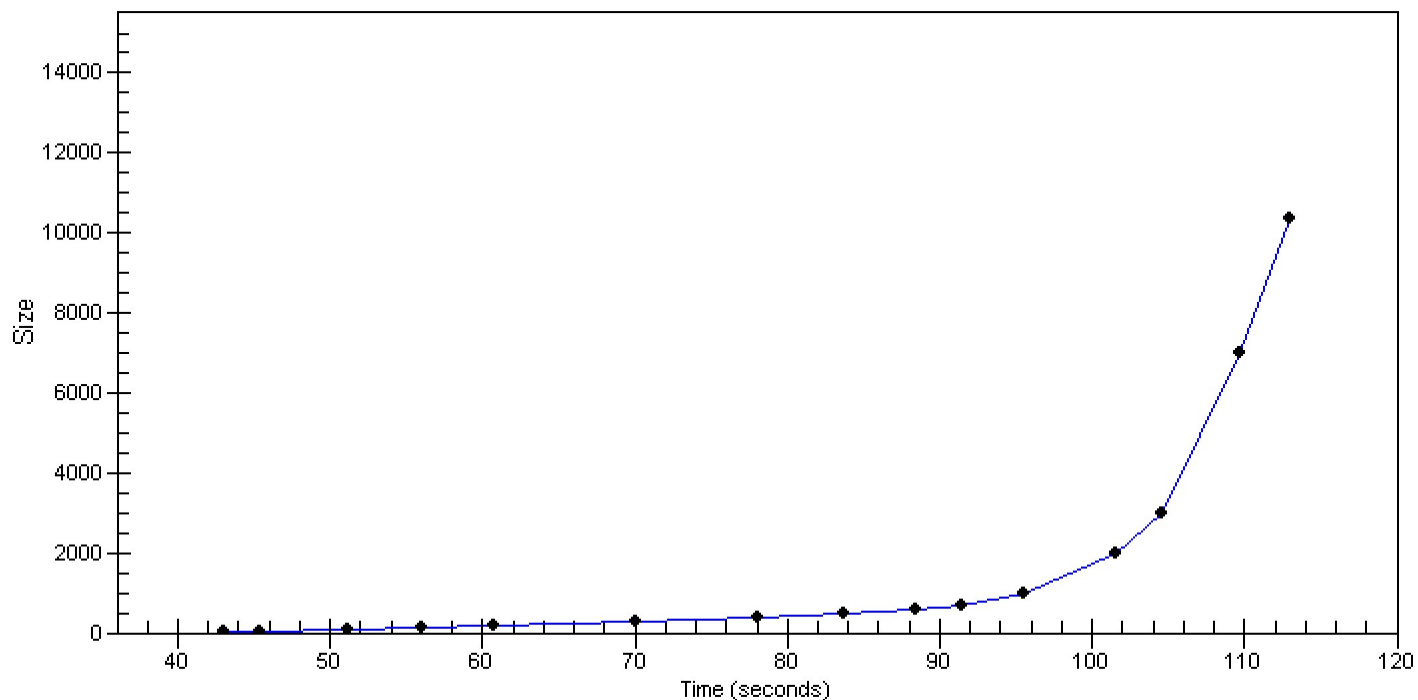


Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-10\2015-11-10_002.xad

Created: 11/10/2015 10:22:45 AM
Modified: 11/10/2015 11:03:14 AM

Curves

Standard Curve



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-11-10\2015-11-10_002.xad

Created: 11/10/2015 10:22:45 AM
 Modified: 11/10/2015 11:03:14 AM

Run Logbook

| Description | Number | Source | Category | Sub Category | Time | Time Zone | User | Host |
|---|--------|------------|----------|--------------|------------------------|-------------------------------------|----------|----------|
| Run ended on port 1 (Number of wells acquired: 12) | | Instrument | Run | | 11/10/2015 11:03:13 AM | (GMT --08:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2015-11-10\2015-11-10_002.xad) | | Instrument | Run | | 11/10/2015 10:22:50 AM | (GMT --08:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Product Number : G2938B | | Instrument | Run | | 11/10/2015 10:22:50 AM | (GMT --08:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Name : | | Instrument | Run | | 11/10/2015 10:22:50 AM | (GMT --08:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Vendor : Agilent Technologies | | Instrument | Run | | 11/10/2015 10:22:50 AM | (GMT --08:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Serial# : DE13701086 | | Instrument | Run | | 11/10/2015 10:22:50 AM | (GMT --08:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Firmware : C.01.069 | | Instrument | Run | | 11/10/2015 10:22:50 AM | (GMT --08:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Cartridge : Electrode | | Instrument | Run | | 11/10/2015 10:22:50 AM | (GMT --08:00) Pacific Standard Time | UC Davis | D8XSMGH1 |