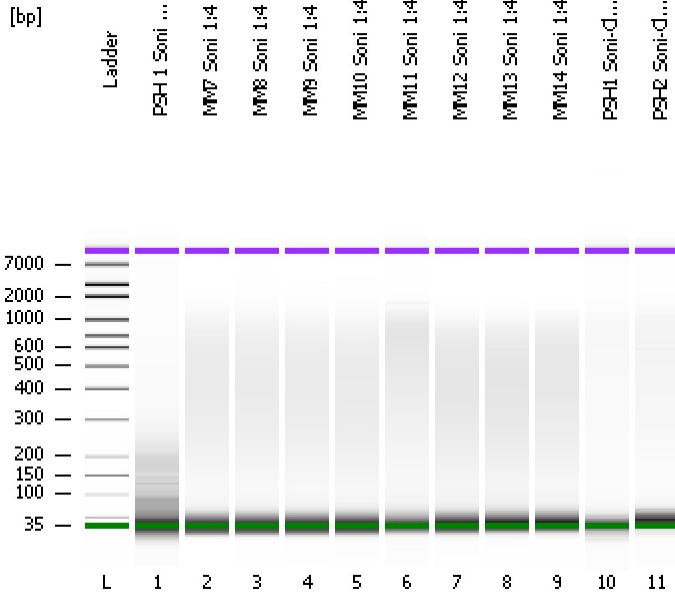


Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2013-08-06\2013-08-06_007.xad

Created: 8/6/2013 3:17:54 PM
Modified: 8/6/2013 4:01:00 PM

Electrophoresis File Run Summary



Instrument Information:

Instrument Name: DE13701086 Firmware: C.01.069
Serial#: DE13701086 Type: G2938B

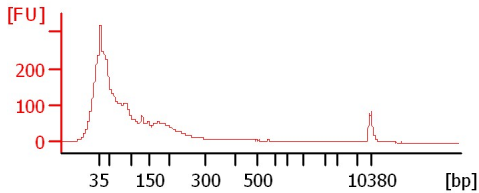
Assay Information:

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

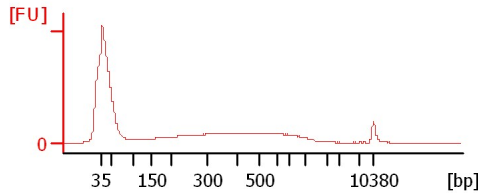
Chip Information:

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

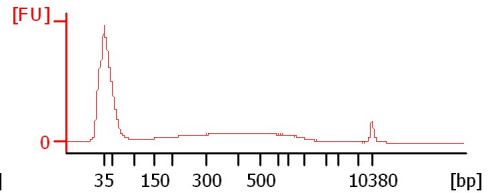
PSH 1 Soni 1:4 8/6/13
6Cycles 15s. on/90s off



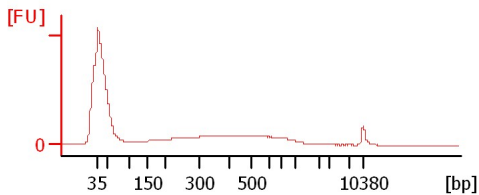
MM7 Soni 1:4



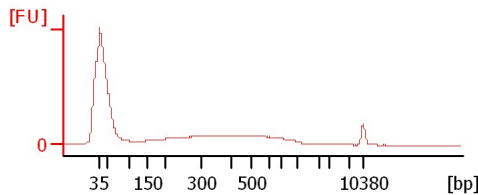
MM8 Soni 1:4



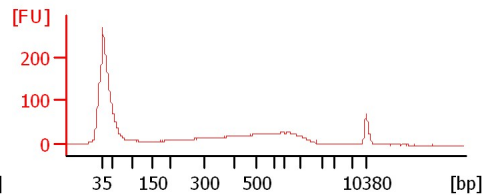
MM9 Soni 1:4



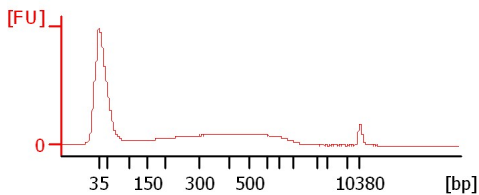
MM10 Soni 1:4



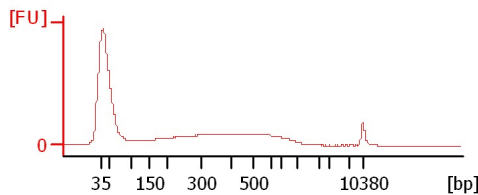
MM11 Soni 1:4



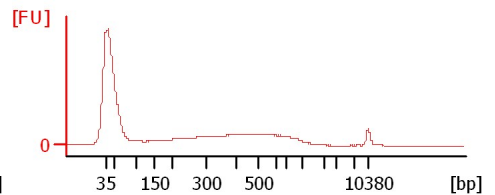
MM12 Soni 1:4



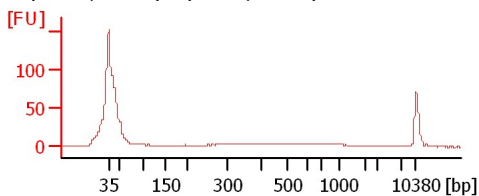
MM13 Soni 1:4



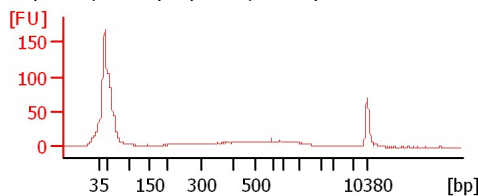
MM14 Soni 1:4



PSH1 Soni-Cleaned 1:4
1(20s on/90s.off)+1(11s.on/90s.off)



PSH2 Soni-Cleaned 1:4
1(20s on/90s.off)+1(11s.on/90s.off)



Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2013-08-06\2013-08-06_007.xad

Created: 8/6/2013 3:17:54 PM
Modified: 8/6/2013 4:01:00 PM

Electrophoresis File Run Summary (Chip Summary)

| Sample Name | Sample Comment | Rest. Digest | Status | Observation | Result Label | Result Color |
|-----------------------|-------------------------------------|--------------------------|--------|-------------|--------------|--------------|
| PSH 1 Soni 1:4 8/6/13 | 6Cycles 15s. on/90s | <input type="checkbox"/> | ✓ | | | |
| MM7 Soni 1:4 | | <input type="checkbox"/> | ✓ | | | |
| MM8 Soni 1:4 | | <input type="checkbox"/> | ✓ | | | |
| MM9 Soni 1:4 | | <input type="checkbox"/> | ✓ | | | |
| MM10 Soni 1:4 | | <input type="checkbox"/> | ✓ | | | |
| MM11 Soni 1:4 | | <input type="checkbox"/> | ✓ | | | |
| MM12 Soni 1:4 | | <input type="checkbox"/> | ✓ | | | |
| MM13 Soni 1:4 | | <input type="checkbox"/> | ✓ | | | |
| MM14 Soni 1:4 | | <input type="checkbox"/> | ✓ | | | |
| PSH1 Soni-Cleaned 1:4 | 1(20s on/90s.off)+1(11s.on/90s.off) | <input type="checkbox"/> | ✓ | | | |
| PSH2 Soni-Cleaned 1:4 | 1(20s on/90s.off)+1(11s.on/90s.off) | <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\2013-08-06\2013-08-06_007.xad

Created: 8/6/2013 3:17:54 PM
Modified: 8/6/2013 4:01:00 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

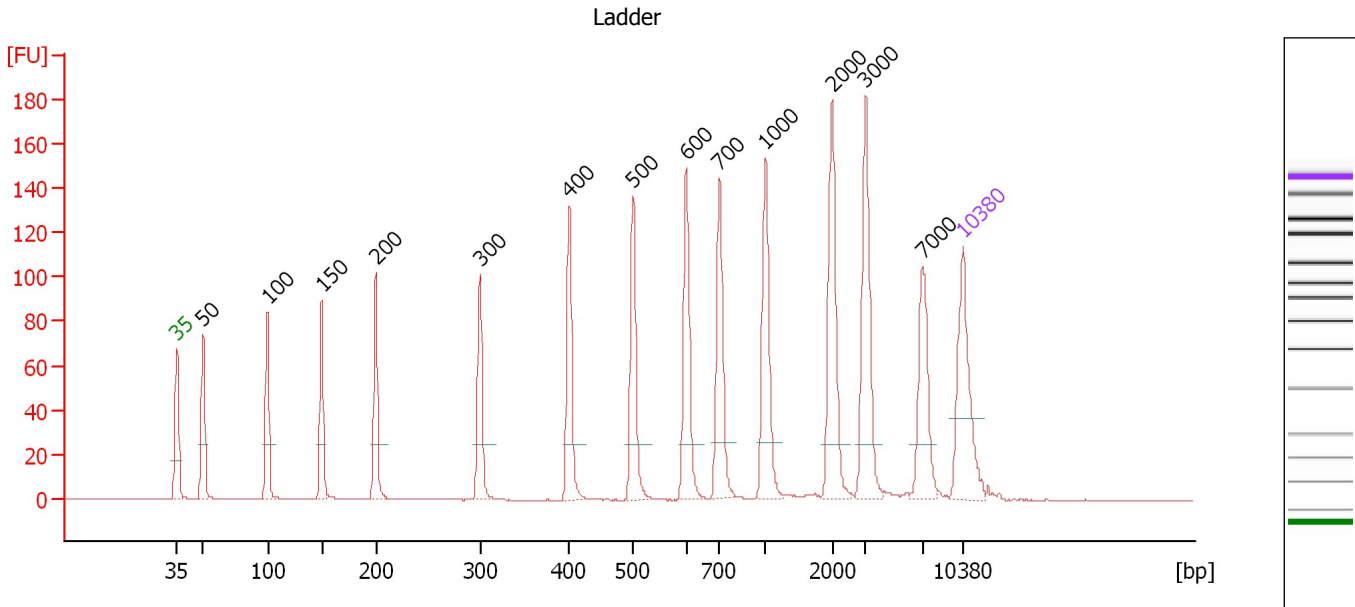
Ladder

| 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\2013-08-06\2013-08-06_007.xad

Created: 8/6/2013 3:17:54 PM
 Modified: 8/6/2013 4:01:00 PM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.1

Peak table for Ladder

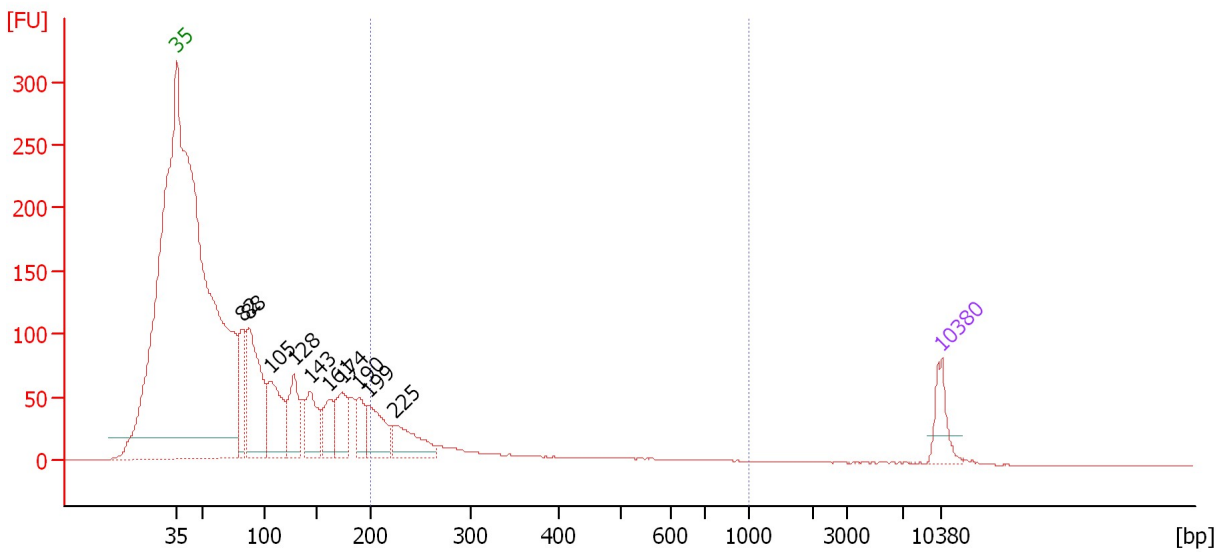
| Peak | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations |
|------|-----------|---------------|-------------------|--------------|
| 1 | 35 | 125.00 | 5,411.3 | Lower Marker |
| 2 | 50 | 150.00 | 4,545.5 | Ladder Peak |
| 3 | 100 | 150.00 | 2,272.7 | Ladder Peak |
| 4 | 150 | 150.00 | 1,515.2 | Ladder Peak |
| 5 | 200 | 150.00 | 1,136.4 | Ladder Peak |
| 6 | 300 | 150.00 | 757.6 | Ladder Peak |
| 7 | 400 | 150.00 | 568.2 | Ladder Peak |
| 8 | 500 | 150.00 | 454.5 | Ladder Peak |
| 9 | 600 | 150.00 | 378.8 | Ladder Peak |
| 10 | 700 | 150.00 | 324.7 | Ladder Peak |
| 11 | 1,000 | 150.00 | 227.3 | Ladder Peak |
| 12 | 2,000 | 150.00 | 113.6 | Ladder Peak |
| 13 | 3,000 | 150.00 | 75.8 | Ladder Peak |
| 14 | 7,000 | 150.00 | 32.5 | Ladder Peak |
| 15 | 10,380 | 75.00 | 10.9 | Upper Marker |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-08-06\2013-08-06_007.xad

Created: 8/6/2013 3:17:54 PM
 Modified: 8/6/2013 4:01:00 PM

Electropherogram Summary Continued ...

PSH 1 Soni 1:4 8/6/13 [6Cycles 15s. on/90s off]



Overall Results for sample 1 : PSH 1 Soni 1:4 8/6/13

Number of peaks found: 10 Corr. Area 1: 435.9
 Noise: 0.2

Peak table for sample 1 : PSH 1 Soni 1:4 8/6/13

| Peak | Size [bp] | Conc. [pg/µl] | Molarity [pmol/l] | Observations |
|------|-----------|---------------|-------------------|--------------|
| 1 | 35 | 125.00 | 5,411.3 | Lower Marker |
| 2 | 82 | 241.40 | 4,460.7 | |
| 3 | 88 | 557.07 | 9,644.4 | |
| 4 | 105 | 306.26 | 4,404.8 | |
| 5 | 128 | 221.25 | 2,618.5 | |
| 6 | 143 | 201.60 | 2,134.0 | |
| 7 | 161 | 130.47 | 1,224.9 | |
| 8 | 174 | 178.12 | 1,554.6 | |
| 9 | 190 | 105.09 | 838.5 | |
| 10 | 199 | 189.18 | 1,443.8 | |
| 11 | 225 | 165.15 | 1,110.3 | |
| 12 | 10,380 | 75.00 | 10.9 | Upper Marker |

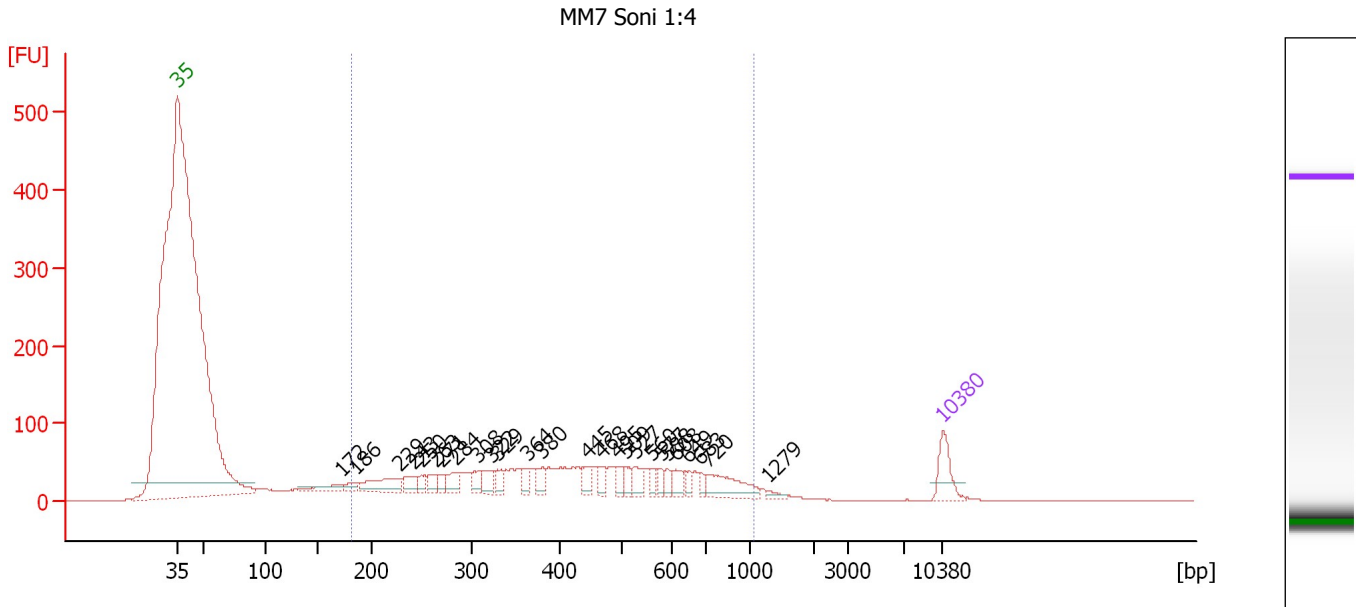
Region table for sample 1 : PSH 1 Soni 1:4 8/6/13

| From [bp] | To [bp] | Average Size [bp] | Molarity [pmol/l] | Conc. [pg/µl] | Corr. Area | % of Total | Size distribution in CV [%] | Color |
|-----------|---------|-------------------|-------------------|---------------|------------|------------|-----------------------------|-------|
| 200 | 1,000 | 315 | 3,270.4 | 572.96 | 435.9 | 24 | 45.9 | Blue |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-08-06\2013-08-06_007.xad

Created: 8/6/2013 3:17:54 PM
 Modified: 8/6/2013 4:01:00 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : MM7 Soni 1:4

Number of peaks found: 26 Corr. Area 1: 1,787.9
 Noise: 0.3

Peak table for sample 2 : MM7 Soni 1:4

| Peak | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations |
|------|-----------|---------------|-------------------|--------------|
| 1 | 35 | 125.00 | 5,411.3 | Lower Marker |
| 2 | 172 | 49.76 | 439.5 | |
| 3 | 186 | 29.03 | 236.0 | |
| 4 | 229 | 120.82 | 799.2 | |
| 5 | 243 | 50.54 | 315.4 | |
| 6 | 250 | 26.97 | 163.4 | |
| 7 | 263 | 40.70 | 234.2 | |
| 8 | 271 | 28.71 | 160.7 | |
| 9 | 284 | 62.84 | 335.4 | |
| 10 | 308 | 40.22 | 198.1 | |
| 11 | 322 | 59.83 | 281.8 | |
| 12 | 329 | 39.24 | 180.7 | |
| 13 | 364 | 40.91 | 170.4 | |
| 14 | 380 | 43.48 | 173.2 | |
| 15 | 445 | 42.46 | 144.7 | |
| 16 | 468 | 40.31 | 130.6 | |
| 17 | 495 | 30.47 | 93.3 | |
| 18 | 509 | 31.87 | 95.0 | |
| 19 | 527 | 50.37 | 144.8 | |
| 20 | 560 | 28.68 | 77.5 | |
| 21 | 577 | 27.61 | 72.5 | |
| 22 | 588 | 24.85 | 64.0 | |
| 23 | 608 | 42.44 | 105.8 | |
| 24 | 649 | 24.94 | 58.2 | |
| 25 | 683 | 21.81 | 48.4 | |
| 26 | 720 | 124.21 | 261.4 | |


Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2013-08-06\2013-08-06_007.xad

Created: 8/6/2013 3:17:54 PM
Modified: 8/6/2013 4:01:00 PM

Electropherogram Summary Continued ...**... Peak table for sample 2 : MM7 Soni 1:4**

| Peak | Size [bp] | Conc. [pg/ μ l] | Molarity [pmol/l] | Observations |
|------|-----------|---------------------|-------------------|--------------|
| 27 | 1,279 | 12.59 | 14.9 | |
| 28 | 10,380 | 75.00 | 10.9 | Upper Marker |

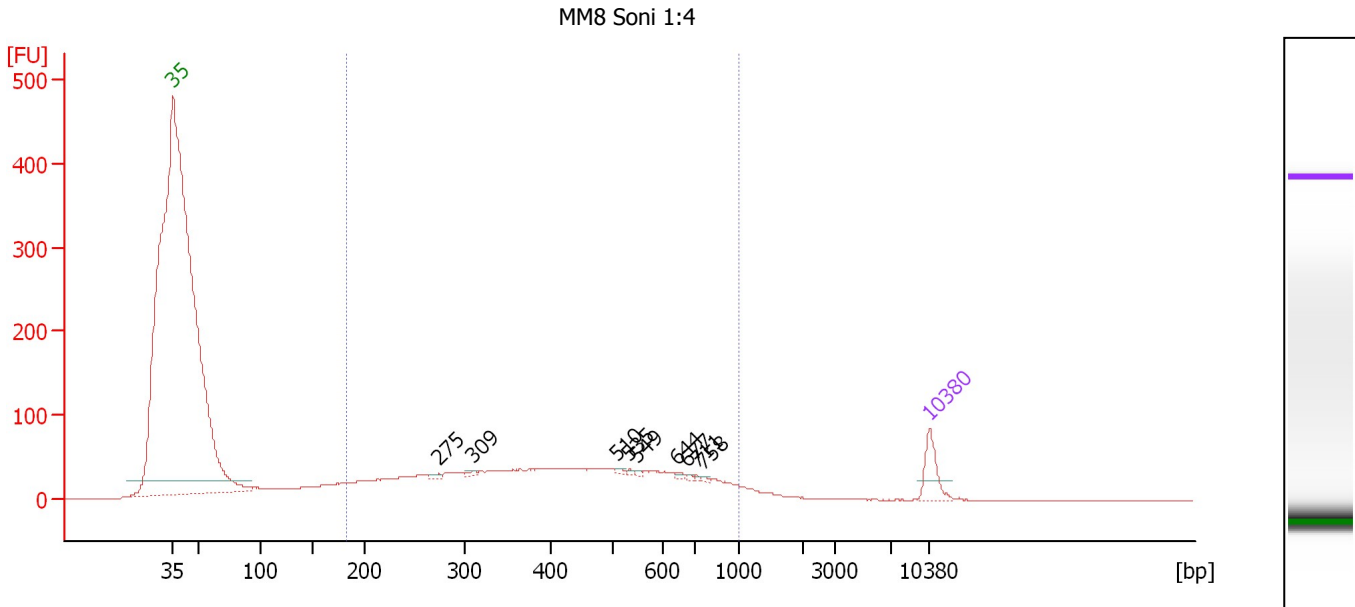
Region table for sample 2 : MM7 Soni 1:4

| From [bp] | To [bp] | Average Size [bp] | Molarity [pmol/l] | Conc. [pg/ μ l] | Corr. Area | % of Total | Size distribution in CV [%] | Color |
|-----------|---------|-------------------|-------------------|---------------------|------------|------------|-----------------------------|---|
| 182 | 1,052 | 442 | 8,737.1 | 2,004.92 | 1,787.9 | 83 | 41.5 |  |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-08-06\2013-08-06_007.xad

Created: 8/6/2013 3:17:54 PM
 Modified: 8/6/2013 4:01:00 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : MM8 Soni 1:4

Number of peaks found: 9 Corr. Area 1: 1,515.7
 Noise: 0.2

Peak table for sample 3 : MM8 Soni 1:4

| Peak | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations |
|------|-----------|---------------|-------------------|--------------|
| 1 | 35 | 125.00 | 5,411.3 | Lower Marker |
| 2 | 275 | 10.98 | 60.5 | |
| 3 | 309 | 10.96 | 53.7 | |
| 4 | 510 | 6.60 | 19.6 | |
| 5 | 535 | 5.41 | 15.3 | |
| 6 | 549 | 5.09 | 14.0 | |
| 7 | 644 | 7.79 | 18.3 | |
| 8 | 677 | 5.21 | 11.7 | |
| 9 | 711 | 4.44 | 9.5 | |
| 10 | 758 | 4.77 | 9.5 | |
| 11 | 10,380 | 75.00 | 10.9 | Upper Marker |

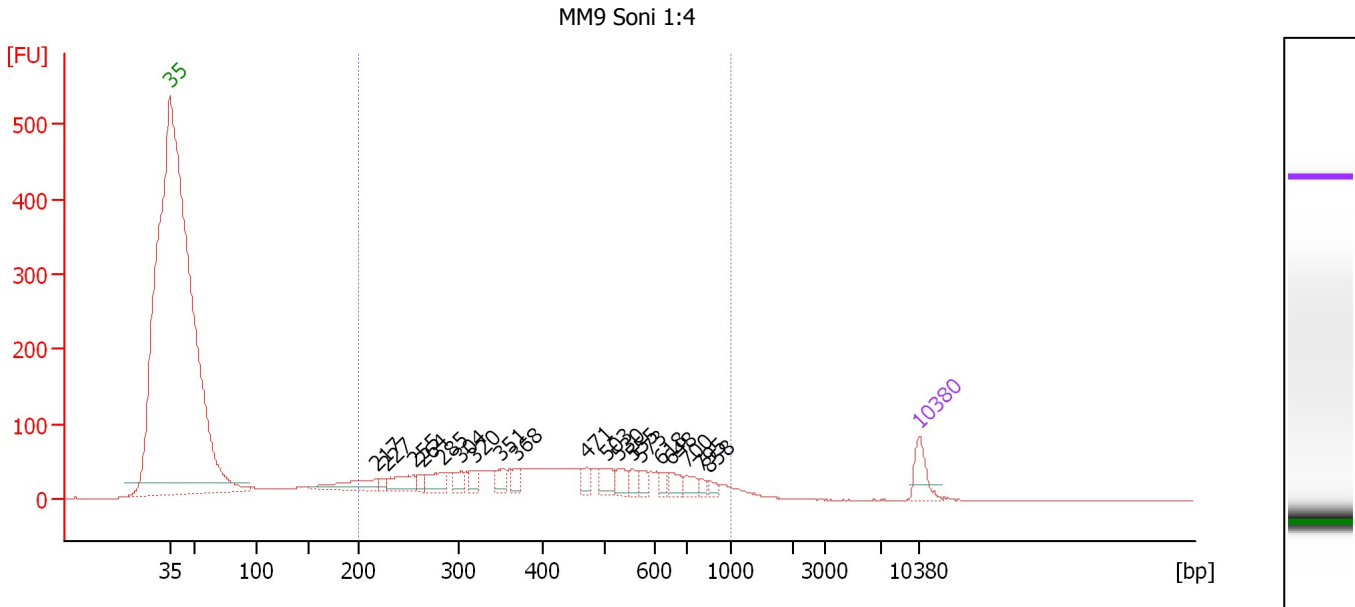
Region table for sample 3 : MM8 Soni 1:4

| From [bp] | To [bp] | Average Size [bp] | Molarity [pmol/l] | Conc. [pg/μl] | Corr. Area | % of Total | Size distribution in CV [%] | Color |
|-----------|---------|-------------------|-------------------|---------------|------------|------------|-----------------------------|-------|
| 184 | 1,000 | 437 | 7,952.5 | 1,820.04 | 1,515.7 | 82 | 40.8 | Blue |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-08-06\2013-08-06_007.xad

Created: 8/6/2013 3:17:54 PM
 Modified: 8/6/2013 4:01:00 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : MM9 Soni 1:4

Number of peaks found: 19 Corr. Area 1: 1,576.7
 Noise: 0.1

Peak table for sample 4 : MM9 Soni 1:4

| Peak | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations |
|------|-----------|---------------|-------------------|--------------|
| 1 | 35 | 125.00 | 5,411.3 | Lower Marker |
| 2 | 217 | 144.05 | 1,007.3 | |
| 3 | 227 | 29.02 | 193.3 | |
| 4 | 255 | 105.37 | 626.2 | |
| 5 | 264 | 31.26 | 179.7 | |
| 6 | 285 | 90.60 | 481.5 | |
| 7 | 304 | 49.56 | 247.0 | |
| 8 | 320 | 50.34 | 238.2 | |
| 9 | 351 | 53.69 | 231.9 | |
| 10 | 368 | 46.00 | 189.2 | |
| 11 | 471 | 54.20 | 174.3 | |
| 12 | 503 | 66.56 | 200.3 | |
| 13 | 530 | 58.18 | 166.3 | |
| 14 | 555 | 38.15 | 104.1 | |
| 15 | 573 | 35.92 | 94.9 | |
| 16 | 618 | 27.92 | 68.4 | |
| 17 | 648 | 47.20 | 110.3 | |
| 18 | 700 | 46.15 | 99.9 | |
| 19 | 795 | 21.18 | 40.4 | |
| 20 | 858 | 23.91 | 42.2 | |
| 21 | 10,380 | 75.00 | 10.9 | Upper Marker |

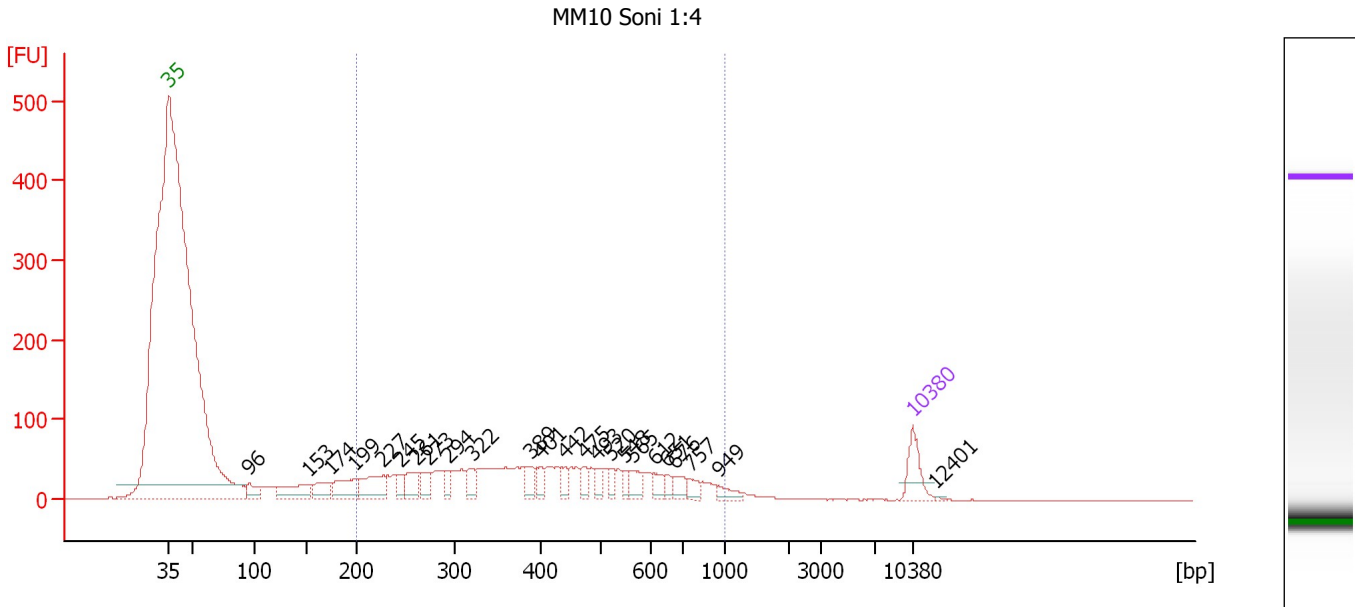
Region table for sample 4 : MM9 Soni 1:4

| From [bp] | To [bp] | Average Size [bp] | Molarity [pmol/l] | Conc. [pg/μl] | Corr. Area | % of Total | Size distribution in CV [%] | Color |
|-----------|---------|-------------------|-------------------|---------------|------------|------------|-----------------------------|-------|
| 200 | 1,000 | 444 | 7,721.4 | 1,841.81 | 1,576.7 | 82 | 39.0 | Blue |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-08-06\2013-08-06_007.xad

Created: 8/6/2013 3:17:54 PM
 Modified: 8/6/2013 4:01:00 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : MM10 Soni 1:4

Number of peaks found: 24 Corr. Area 1: 1,572.6
 Noise: 0.2

Peak table for sample 5 : MM10 Soni 1:4

| Peak | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations |
|------|-----------|---------------|-------------------|--------------|
| 1 | 35 | 125.00 | 5,411.3 | Lower Marker |
| 2 | 96 | 67.84 | 1,069.4 | |
| 3 | 153 | 131.56 | 1,299.1 | |
| 4 | 174 | 84.89 | 737.7 | |
| 5 | 199 | 120.31 | 916.3 | |
| 6 | 227 | 141.69 | 945.4 | |
| 7 | 245 | 38.80 | 240.0 | |
| 8 | 261 | 78.16 | 454.3 | |
| 9 | 273 | 61.16 | 339.9 | |
| 10 | 294 | 40.01 | 206.4 | |
| 11 | 322 | 54.42 | 256.4 | |
| 12 | 389 | 50.46 | 196.6 | |
| 13 | 401 | 40.48 | 152.9 | |
| 14 | 442 | 36.70 | 125.9 | |
| 15 | 475 | 43.29 | 138.0 | |
| 16 | 493 | 34.52 | 106.1 | |
| 17 | 520 | 30.13 | 87.8 | |
| 18 | 548 | 29.77 | 82.3 | |
| 19 | 565 | 46.19 | 123.9 | |
| 20 | 612 | 37.82 | 93.6 | |
| 21 | 651 | 21.70 | 50.5 | |
| 22 | 676 | 42.13 | 94.5 | |
| 23 | 757 | 30.09 | 60.2 | |
| 24 | 949 | 29.69 | 47.4 | |
| 25 | 10,380 | 75.00 | 10.9 | Upper Marker |
| 26 | 12,401 | 0.00 | 0.0 | |

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2013-08-06\2013-08-06_007.xad

Created: 8/6/2013 3:17:54 PM
Modified: 8/6/2013 4:01:00 PM

Electropherogram Summary Continued ...

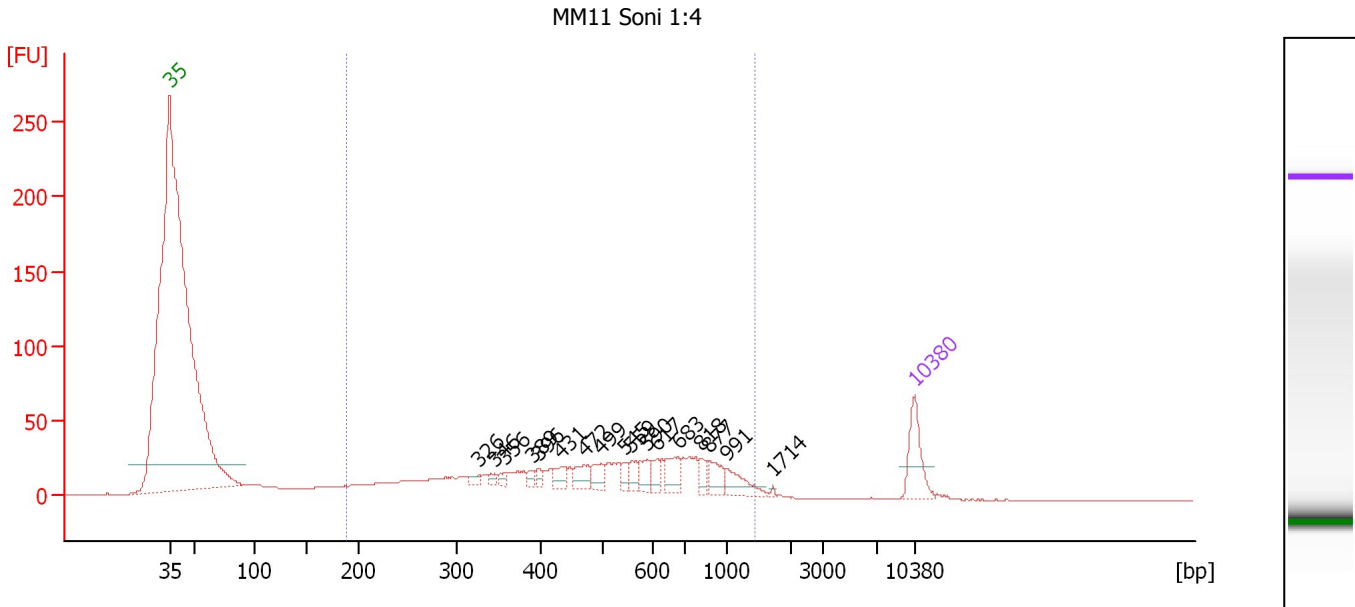
... Region table for sample 5 : MM10 Soni 1:4

| From [bp] | To [bp] | Average Size [bp] | Molarity [pmol/l] | Conc. [pg/μl] | Corr. Area | % of Total | Size distribution in CV [%] | Color |
|-----------|---------|-------------------|-------------------|---------------|------------|------------|-----------------------------|-------|
| 200 | 1,000 | 434 | 7,305.7 | 1,711.09 | 1,572.6 | 79 | 39.1 | ■ |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-08-06\2013-08-06_007.xad

Created: 8/6/2013 3:17:54 PM
 Modified: 8/6/2013 4:01:00 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : MM11 Soni 1:4

Number of peaks found: 17 Corr. Area 1: 855.9
 Noise: 0.1

Peak table for sample 6 : MM11 Soni 1:4

| Peak | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations |
|------|-----------|---------------|-------------------|--------------|
| 1 | 35 | 125.00 | 5,411.3 | Lower Marker |
| 2 | 326 | 12.37 | 57.5 | |
| 3 | 346 | 12.41 | 54.4 | |
| 4 | 356 | 13.47 | 57.4 | |
| 5 | 389 | 16.39 | 63.9 | |
| 6 | 396 | 13.57 | 51.9 | |
| 7 | 431 | 30.28 | 106.4 | |
| 8 | 472 | 40.49 | 129.9 | |
| 9 | 499 | 32.72 | 99.4 | |
| 10 | 545 | 18.87 | 52.4 | |
| 11 | 559 | 26.68 | 72.3 | |
| 12 | 590 | 35.63 | 91.5 | |
| 13 | 617 | 27.56 | 67.7 | |
| 14 | 683 | 51.30 | 113.7 | |
| 15 | 818 | 23.21 | 43.0 | |
| 16 | 877 | 42.05 | 72.6 | |
| 17 | 991 | 47.85 | 73.1 | |
| 18 | 1,714 | 2.83 | 2.5 | |
| 19 | 10,380 | 75.00 | 10.9 | Upper Marker |

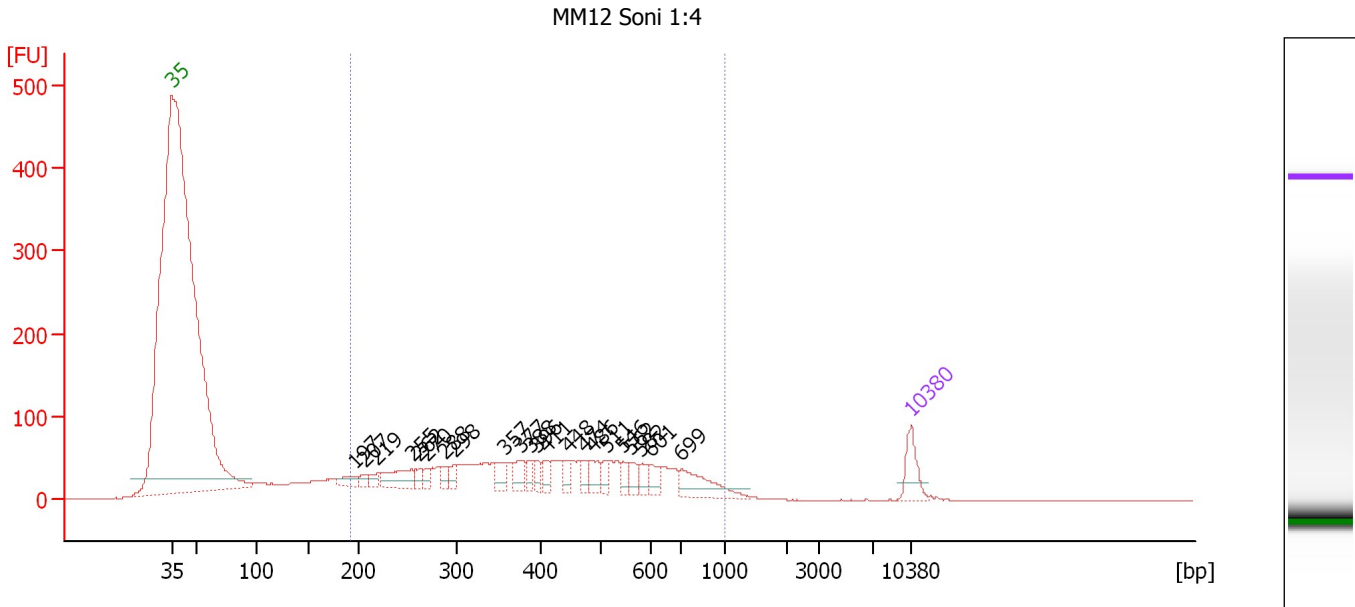
Region table for sample 6 : MM11 Soni 1:4

| From [bp] | To [bp] | Average Size [bp] | Molarity [pmol/l] | Conc. [pg/μl] | Corr. Area | % of Total | Size distribution in CV [%] | Color |
|-----------|---------|-------------------|-------------------|---------------|------------|------------|-----------------------------|-------|
| 189 | 1,429 | 538 | 4,408.1 | 1,174.95 | 855.9 | 86 | 45.7 | Blue |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-08-06\2013-08-06_007.xad

Created: 8/6/2013 3:17:54 PM
 Modified: 8/6/2013 4:01:00 PM

Electropherogram Summary Continued ...



Setpoint Deviations for sample 7 : MM12 Soni 1:4

Height Threshold [FU] : 10

Overall Results for sample 7 : MM12 Soni 1:4

Number of peaks found: 22 Corr. Area 1: 1,836.4
 Noise: 0.1

Peak table for sample 7 : MM12 Soni 1:4

| Peak | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations |
|------|-----------|---------------|-------------------|--------------|
| 1 | 35 | 125.00 | 5,411.3 | Lower Marker |
| 2 | 197 | 49.97 | 384.1 | |
| 3 | 207 | 27.87 | 204.2 | |
| 4 | 219 | 32.80 | 227.1 | |
| 5 | 255 | 128.61 | 763.0 | |
| 6 | 262 | 31.50 | 181.8 | |
| 7 | 270 | 30.51 | 171.1 | |
| 8 | 288 | 32.78 | 172.4 | |
| 9 | 298 | 41.21 | 209.6 | |
| 10 | 357 | 61.72 | 261.8 | |
| 11 | 377 | 62.42 | 250.6 | |
| 12 | 388 | 37.91 | 148.2 | |
| 13 | 396 | 37.77 | 144.6 | |
| 14 | 411 | 40.02 | 147.5 | |
| 15 | 448 | 35.18 | 118.9 | |
| 16 | 474 | 35.04 | 112.0 | |
| 17 | 486 | 55.81 | 173.9 | |
| 18 | 511 | 41.49 | 122.9 | |
| 19 | 546 | 36.54 | 101.4 | |
| 20 | 562 | 37.05 | 99.9 | |
| 21 | 582 | 41.64 | 108.3 | |
| 22 | 601 | 49.50 | 124.8 | |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-08-06\2013-08-06_007.xad


Created: 8/6/2013 3:17:54 PM
 Modified: 8/6/2013 4:01:00 PM

Electropherogram Summary Continued ...

... Peak table for sample 7 : MM12 Soni 1:4

| Peak | Size [bp] | Conc. [pg/ μ l] | Molarity [pmol/l] | Observations |
|------|-----------|---------------------|-------------------|--------------|
| 23 | 699 | 131.32 | 284.6 | |
| 24 | 10,380 | 75.00 | 10.9 | Upper Marker |

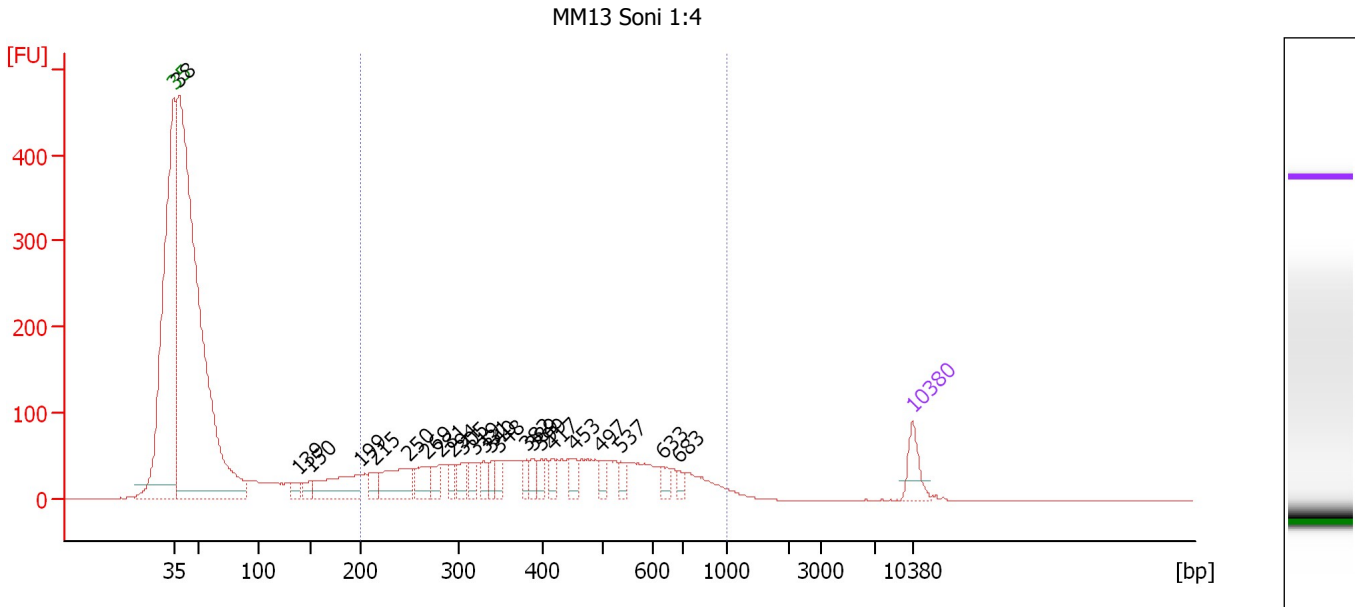
Region table for sample 7 : MM12 Soni 1:4

| From [bp] | To [bp] | Average Size [bp] | Molarity [pmol/l] | Conc. [pg/ μ l] | Corr. Area | % of Total | Size distribution in CV [%] | Color |
|-----------|---------|-------------------|-------------------|---------------------|------------|------------|-----------------------------|---|
| 192 | 1,000 | 436 | 9,152.3 | 2,128.91 | 1,836.4 | 82 | 39.2 |  |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-08-06\2013-08-06_007.xad

Created: 8/6/2013 3:17:54 PM
 Modified: 8/6/2013 4:01:00 PM

Electropherogram Summary Continued ...



Setpoint Deviations for sample 8 : MM13 Soni 1:4

Height Threshold [FU] : 10

Overall Results for sample 8 : MM13 Soni 1:4

Number of peaks found: 23 Corr. Area 1: 1,786.0
 Noise: 0.1

Peak table for sample 8 : MM13 Soni 1:4

| Peak | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations |
|------|-----------|---------------|-------------------|--------------|
| 1 | 35 | 125.00 | 5,411.3 | Lower Marker |
| 2 | 38 | 4,544.40 | 181,510.7 | |
| 3 | 139 | 48.05 | 524.4 | |
| 4 | 150 | 49.20 | 497.7 | |
| 5 | 199 | 260.42 | 1,979.4 | |
| 6 | 215 | 64.15 | 451.7 | |
| 7 | 250 | 215.95 | 1,311.0 | |
| 8 | 269 | 104.74 | 590.6 | |
| 9 | 281 | 65.61 | 353.5 | |
| 10 | 294 | 48.03 | 247.7 | |
| 11 | 305 | 77.41 | 384.0 | |
| 12 | 319 | 51.21 | 242.9 | |
| 13 | 331 | 47.31 | 216.2 | |
| 14 | 340 | 46.89 | 209.1 | |
| 15 | 348 | 46.63 | 203.0 | |
| 16 | 382 | 44.29 | 175.9 | |
| 17 | 389 | 47.69 | 186.0 | |
| 18 | 399 | 43.00 | 163.2 | |
| 19 | 417 | 46.08 | 167.5 | |
| 20 | 453 | 57.62 | 192.6 | |
| 21 | 497 | 54.66 | 166.8 | |
| 22 | 537 | 40.96 | 115.6 | |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-08-06\2013-08-06_007.xad

Created: 8/6/2013 3:17:54 PM
 Modified: 8/6/2013 4:01:00 PM

Electropherogram Summary Continued ...

... Peak table for sample 8 : MM13 Soni 1:4

| Peak | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations |
|------|-----------|---------------|-------------------|--------------|
| 23 | 633 | 42.72 | 102.3 | |
| 24 | 683 | 29.93 | 66.4 | |
| 25 | 10,380 | 75.00 | 10.9 | Upper Marker |

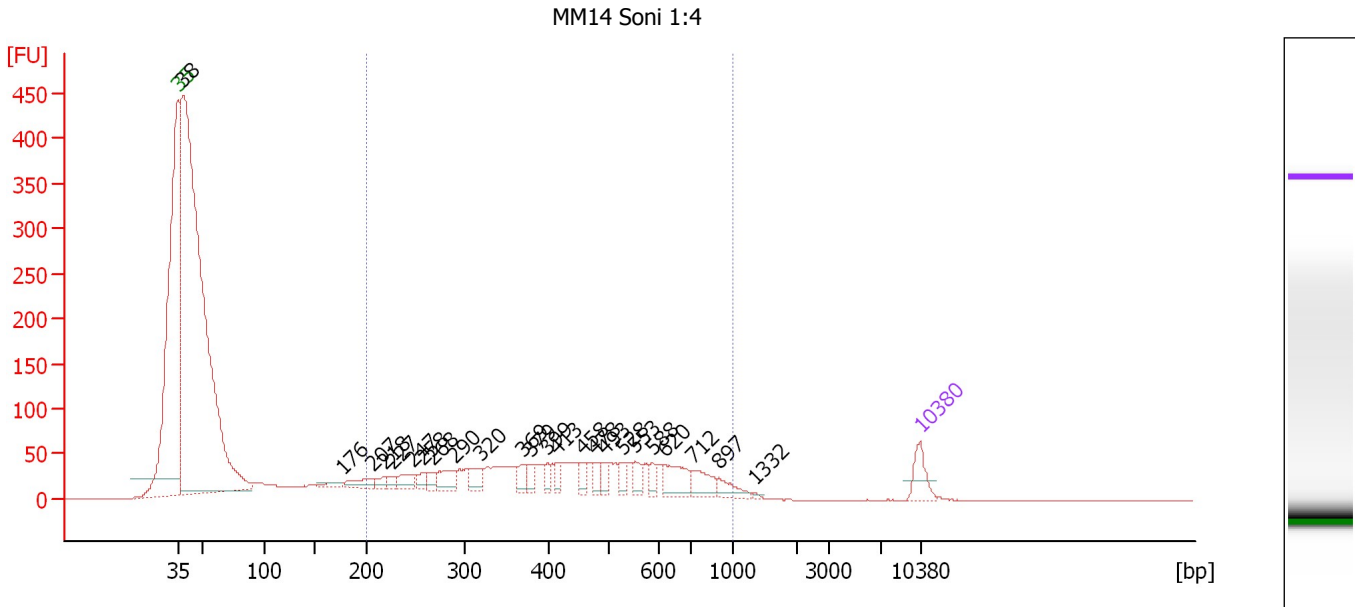
Region table for sample 8 : MM13 Soni 1:4

| From [bp] | To [bp] | Average Size [bp] | Molarity [pmol/l] | Conc. [pg/μl] | Corr. Area | % of Total | Size distribution in CV [%] | Color |
|-----------|---------|-------------------|-------------------|---------------|------------|------------|-----------------------------|---|
| 200 | 1,000 | 433 | 8,838.4 | 2,073.91 | 1,786.0 | 37 | 38.4 |  |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-08-06\2013-08-06_007.xad

Created: 8/6/2013 3:17:54 PM
 Modified: 8/6/2013 4:01:00 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : MM14 Soni 1:4

Number of peaks found: 24 Corr. Area 1: 1,544.8
 Noise: 0.2

Peak table for sample 9 : MM14 Soni 1:4

| Peak | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations |
|------|-----------|---------------|-------------------|--------------|
| 1 | 35 | 125.00 | 5,411.3 | Lower Marker |
| 2 | 38 | 5,531.57 | 221,025.6 | |
| 3 | 176 | 32.83 | 282.0 | |
| 4 | 207 | 72.86 | 534.6 | |
| 5 | 218 | 33.81 | 234.5 | |
| 6 | 227 | 32.38 | 215.9 | |
| 7 | 247 | 68.65 | 420.7 | |
| 8 | 258 | 43.67 | 256.8 | |
| 9 | 268 | 43.68 | 246.5 | |
| 10 | 290 | 94.04 | 491.0 | |
| 11 | 320 | 72.63 | 343.7 | |
| 12 | 369 | 47.81 | 196.5 | |
| 13 | 379 | 39.22 | 156.6 | |
| 14 | 399 | 42.03 | 159.6 | |
| 15 | 413 | 42.89 | 157.4 | |
| 16 | 458 | 42.77 | 141.6 | |
| 17 | 478 | 49.19 | 155.9 | |
| 18 | 493 | 40.19 | 123.5 | |
| 19 | 528 | 44.94 | 129.0 | |
| 20 | 553 | 51.56 | 141.4 | |
| 21 | 588 | 37.57 | 96.8 | |
| 22 | 620 | 124.12 | 303.4 | |
| 23 | 712 | 97.38 | 207.2 | |
| 24 | 897 | 58.55 | 98.9 | |
| 25 | 1,332 | 5.10 | 5.8 | |
| 26 | 10,380 | 75.00 | 10.9 | Upper Marker |

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2013-08-06\2013-08-06_007.xad

Created: 8/6/2013 3:17:54 PM
Modified: 8/6/2013 4:01:00 PM

Electropherogram Summary Continued ...

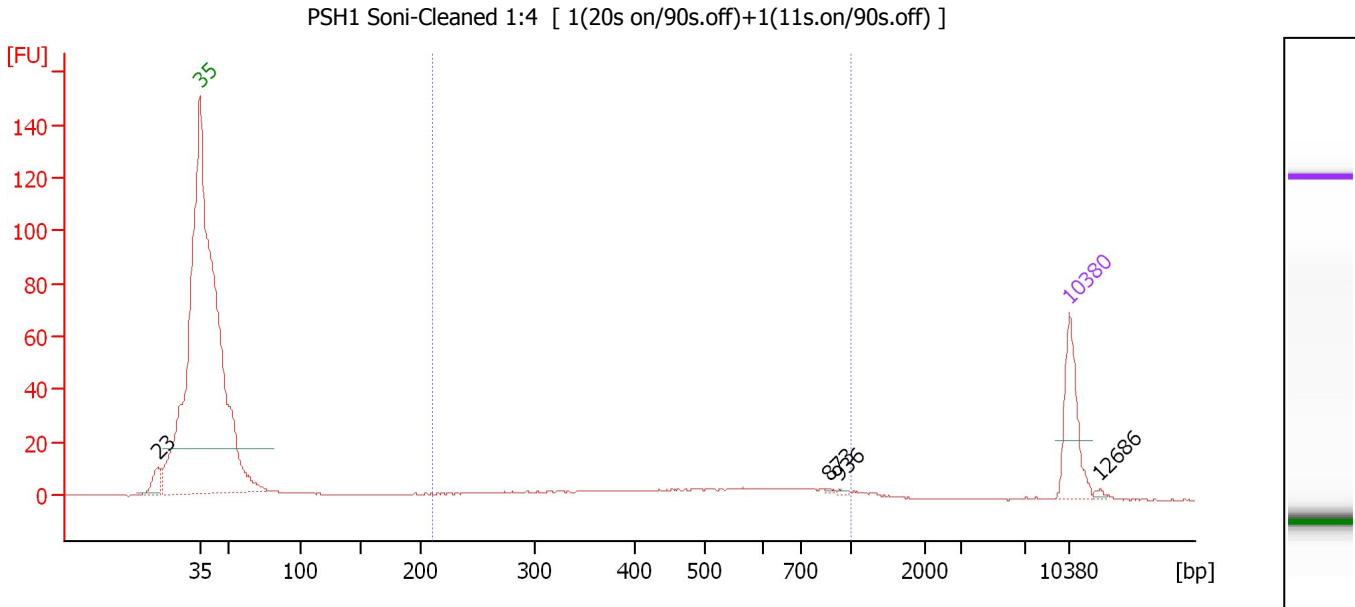
... Region table for sample 9 : MM14 Soni 1:4

| From [bp] | To [bp] | Average Size [bp] | Molarity [pmol/l] | Conc. [pg/μl] | Corr. Area | % of Total | Size distribution in CV [%] | Color |
|-----------|---------|-------------------|-------------------|---------------|------------|------------|-----------------------------|-------|
| 200 | 1,000 | 451 | 9,530.6 | 2,307.66 | 1,544.8 | 34 | 38.7 | ■ |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-08-06\2013-08-06_007.xad

Created: 8/6/2013 3:17:54 PM
 Modified: 8/6/2013 4:01:00 PM

Electropherogram Summary Continued ...



Setpoint Deviations for sample 10 : PSH1 Soni-Cleaned 1:4

Height Threshold [FU] : 1

Overall Results for sample 10 : PSH1 Soni-Cleaned 1:4

Number of peaks found: 4 Corr. Area 1: 108.7
 Noise: 0.2

Peak table for sample 10 : PSH1 Soni-Cleaned 1:4

| Peak | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations |
|------|-----------|---------------|-------------------|--------------|
| 1 | 23 | 0.00 | 0.0 | |
| 2 | 35 | 125.00 | 5,411.3 | Lower Marker |
| 3 | 873 | 1.61 | 2.8 | |
| 4 | 936 | 1.80 | 2.9 | |
| 5 | 10,380 | 75.00 | 10.9 | Upper Marker |
| 6 | 12,686 | 0.00 | 0.0 | |

Region table for sample 10 : PSH1 Soni-Cleaned 1:4

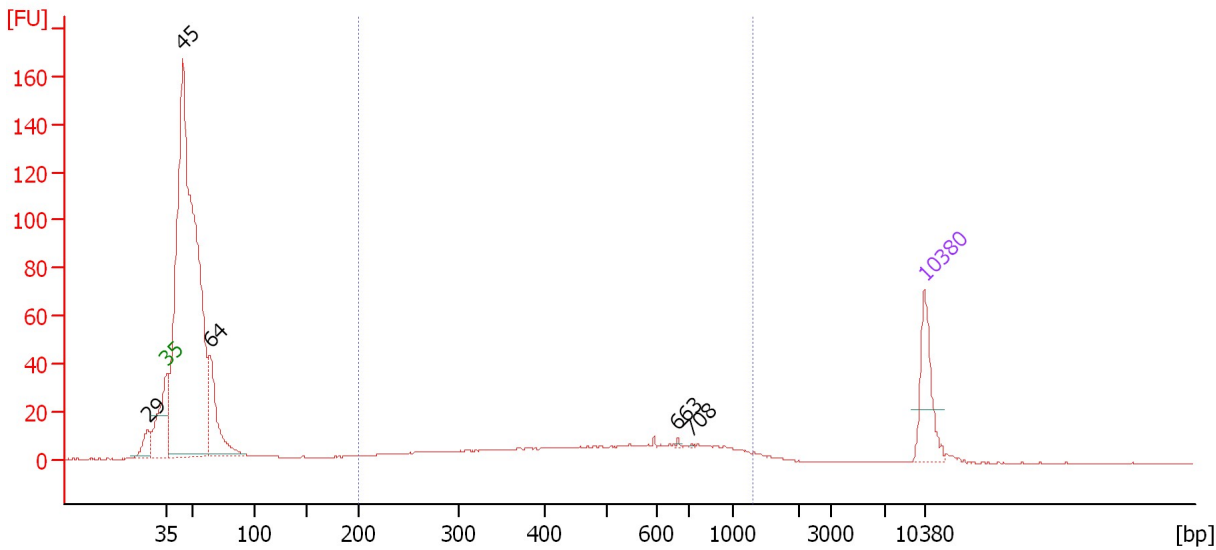
| From [bp] | To [bp] | Average Size [bp] | Molarity [pmol/l] | Conc. [pg/μl] | Corr. Area | % of Total | Size distribution in CV [%] | Color |
|-----------|---------|-------------------|-------------------|---------------|------------|------------|-----------------------------|-------|
| 211 | 1,000 | 506 | 596.9 | 161.34 | 108.7 | 65 | 37.7 | Blue |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-08-06\2013-08-06_007.xad

Created: 8/6/2013 3:17:54 PM
 Modified: 8/6/2013 4:01:00 PM

Electropherogram Summary Continued ...

PSH2 Soni-Cleaned 1:4 [1(20s on/90s.off)+1(11s.on/90s.off)]



Setpoint Deviations for sample 11 : PSH2 Soni-Cleaned 1:4

Height Threshold [FU] : 1

Overall Results for sample 11 : PSH2 Soni-Cleaned 1:4

Number of peaks found: 5 Corr. Area 1: 233.9
 Noise: 0.1

Peak table for sample 11 : PSH2 Soni-Cleaned 1:4

| Peak | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations |
|------|-----------|---------------|-------------------|--------------|
| 1 | 29 | 0.00 | 0.0 | |
| 2 | 35 | 125.00 | 5,411.3 | Lower Marker |
| 3 | 45 | 1,650.46 | 56,154.3 | |
| 4 | 64 | 184.73 | 4,339.7 | |
| 5 | 663 | 1.66 | 3.8 | |
| 6 | 708 | 1.05 | 2.3 | |
| 7 | 10,380 | 75.00 | 10.9 | Upper Marker |

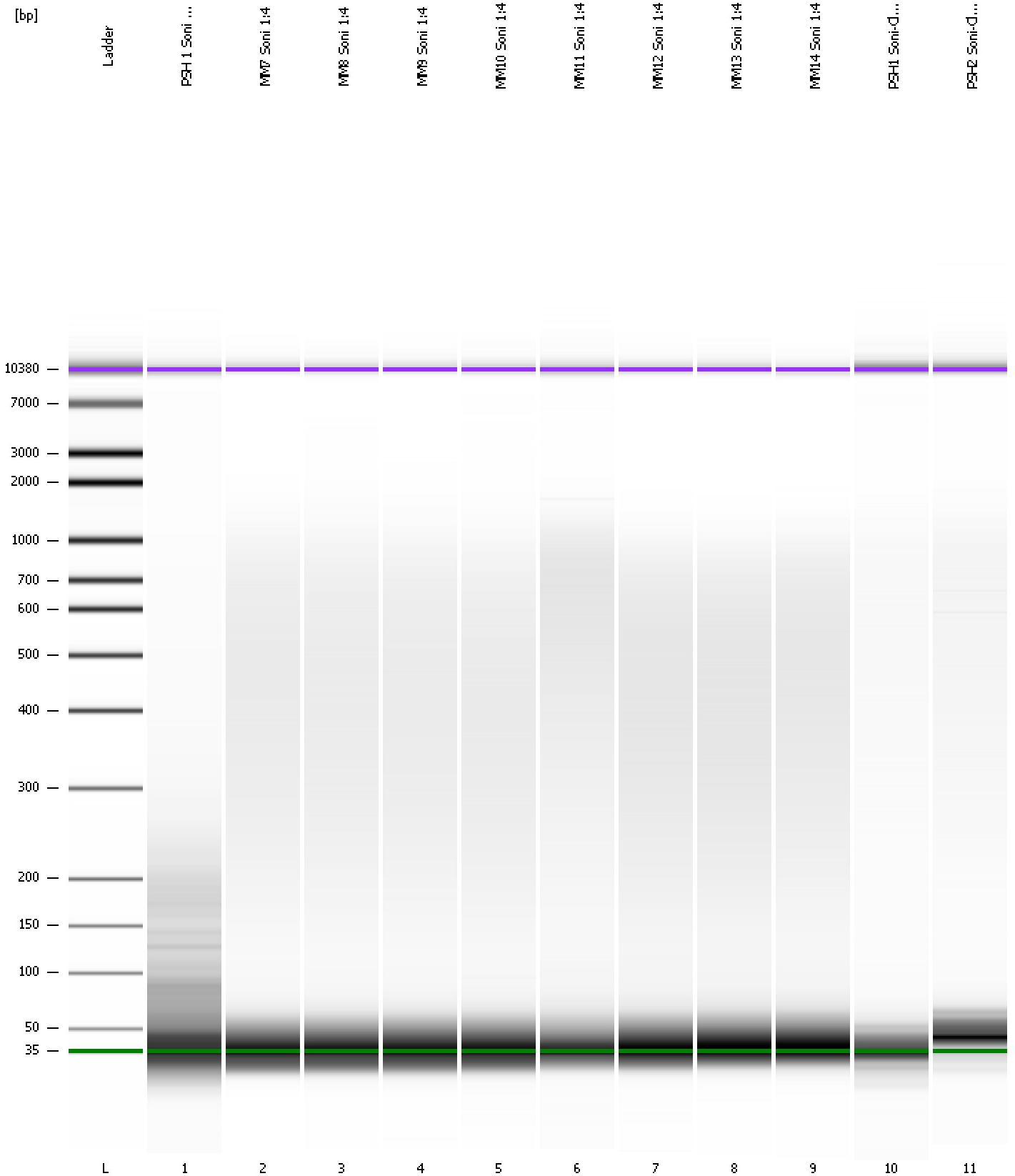
Region table for sample 11 : PSH2 Soni-Cleaned 1:4

| From [bp] | To [bp] | Average Size [bp] | Molarity [pmol/l] | Conc. [pg/μl] | Corr. Area | % of Total | Size distribution in CV [%] | Color |
|-----------|---------|-------------------|-------------------|---------------|------------|------------|-----------------------------|-------|
| 200 | 1,282 | 528 | 1,241.9 | 334.71 | 233.9 | 20 | 43.3 | Blue |

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2013-08-06\2013-08-06_007.xad

Created: 8/6/2013 3:17:54 PM
Modified: 8/6/2013 4:01:00 PM

Gel Image



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2013-08-06\2013-08-06_007.xad

Created: 8/6/2013 3:17:54 PM
 Modified: 8/6/2013 4:01:00 PM

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 | | 8/6/2013 3:58:22 PM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2013-08-06\2013-08-06_007.xad) | | Instrument | Run | | 8/6/2013 3:17:59 PM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Product Number : G2938B | | Instrument | Run | | 8/6/2013 3:17:59 PM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Name : | | Instrument | Run | | 8/6/2013 3:17:59 PM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Vendor : Agilent Technologies | | Instrument | Run | | 8/6/2013 3:17:59 PM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Serial# : DE13701086 | | Instrument | Run | | 8/6/2013 3:17:59 PM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Firmware : C.01.069 | | Instrument | Run | | 8/6/2013 3:17:59 PM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Cartridge : Electrode | | Instrument | Run | | 8/6/2013 3:17:59 PM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |