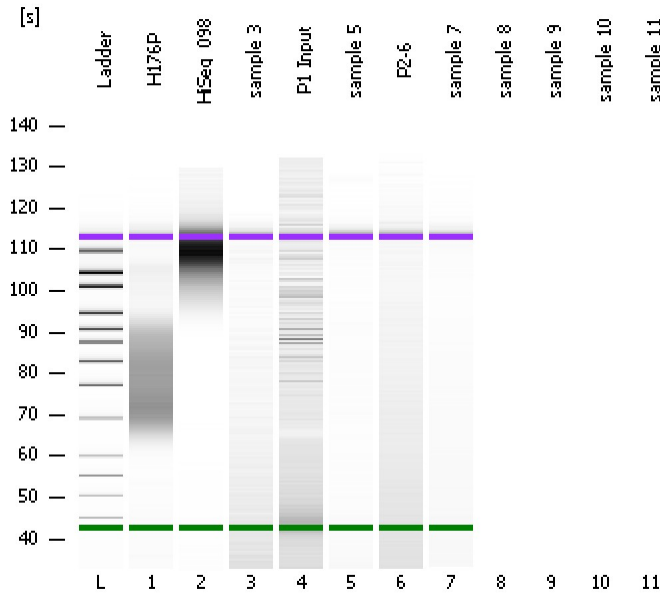


Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-08-25\2015-08-25_001.xad

Created: 8/25/2015 10:21:23 AM
Modified: 8/25/2015 10:51:14 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

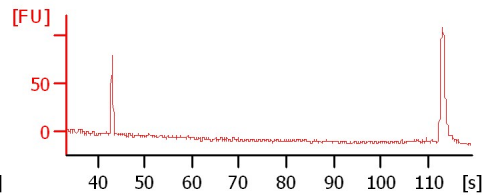
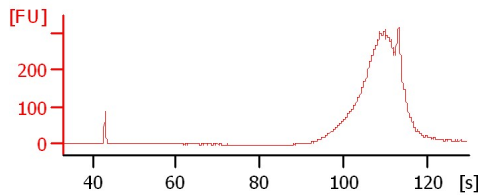
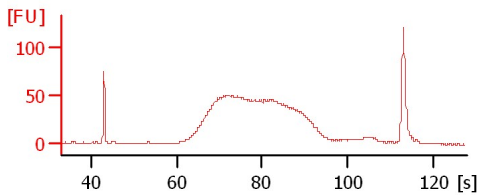
Chip Information:

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

H176P

HiSeq_098

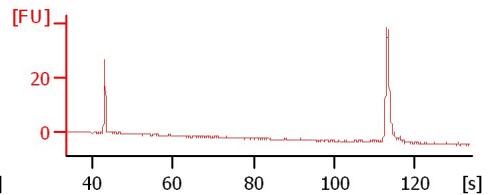
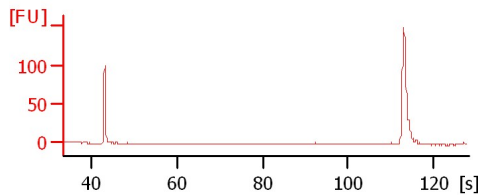
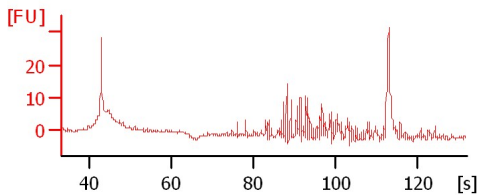
sample 3



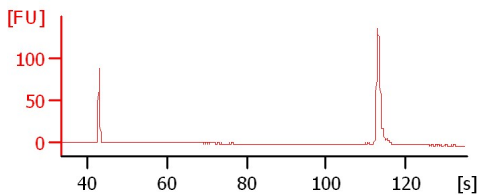
P1 Input

sample 5

P2-6



sample 7



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-08-25\2015-08-25_001.xad

Created: 8/25/2015 10:21:23 AM
 Modified: 8/25/2015 10:51:14 AM

Electrophoresis File Run Summary (Chip Summary)

| Sample Name | Sample Comment | Rest. Digest | Status | Observation | Result Label | Result Color |
|-------------|----------------|--------------------------|--------|-------------|--------------|--------------|
| H176P | | <input type="checkbox"/> | ✓ | | | |
| HiSeq_098 | | <input type="checkbox"/> | ✓ | | | |
| sample 3 | | <input type="checkbox"/> | ✓ | | | |
| P1 Input | | <input type="checkbox"/> | ✓ | | | |
| sample 5 | | <input type="checkbox"/> | ✓ | | | |
| P2-6 | | <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:\...ents and Settings\Bioanalyzer\2015-08-25\2015-08-25_001.xad

Created: 8/25/2015 10:21:23 AM
Modified: 8/25/2015 10:51:14 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

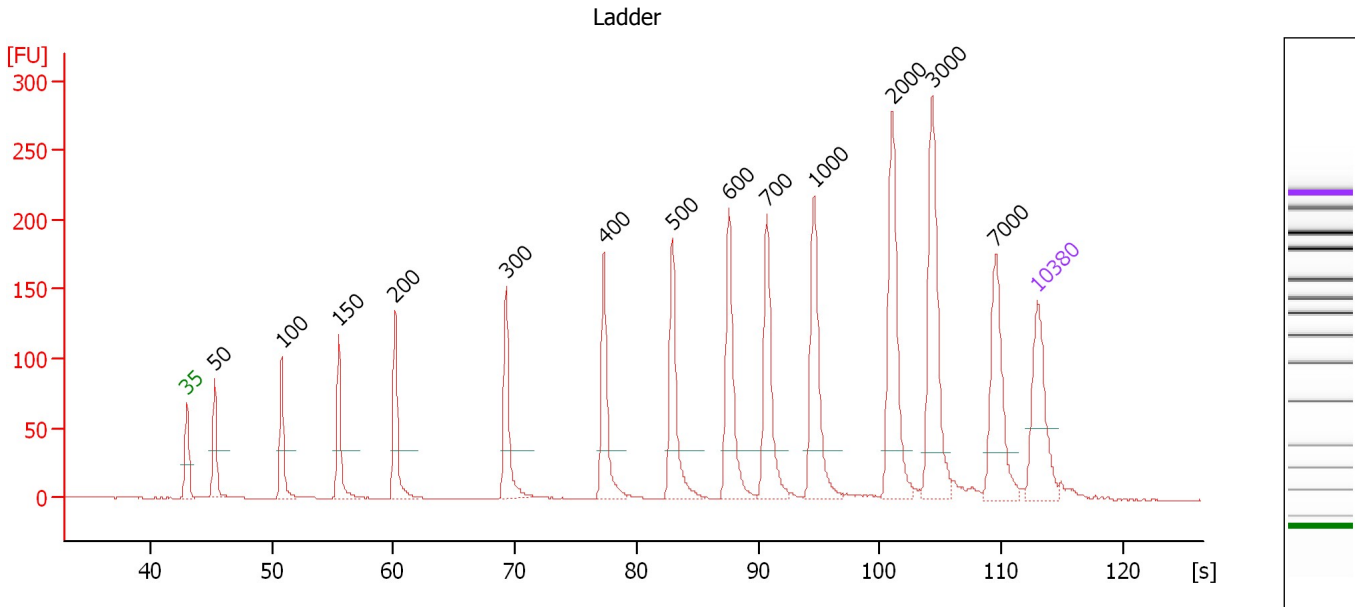
Ladder

| 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\2015-08-25\2015-08-25_001.xad

Created: 8/25/2015 10:21:23 AM
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Electropherogram Summary



Overall Results for Ladder

Noise: 0.2

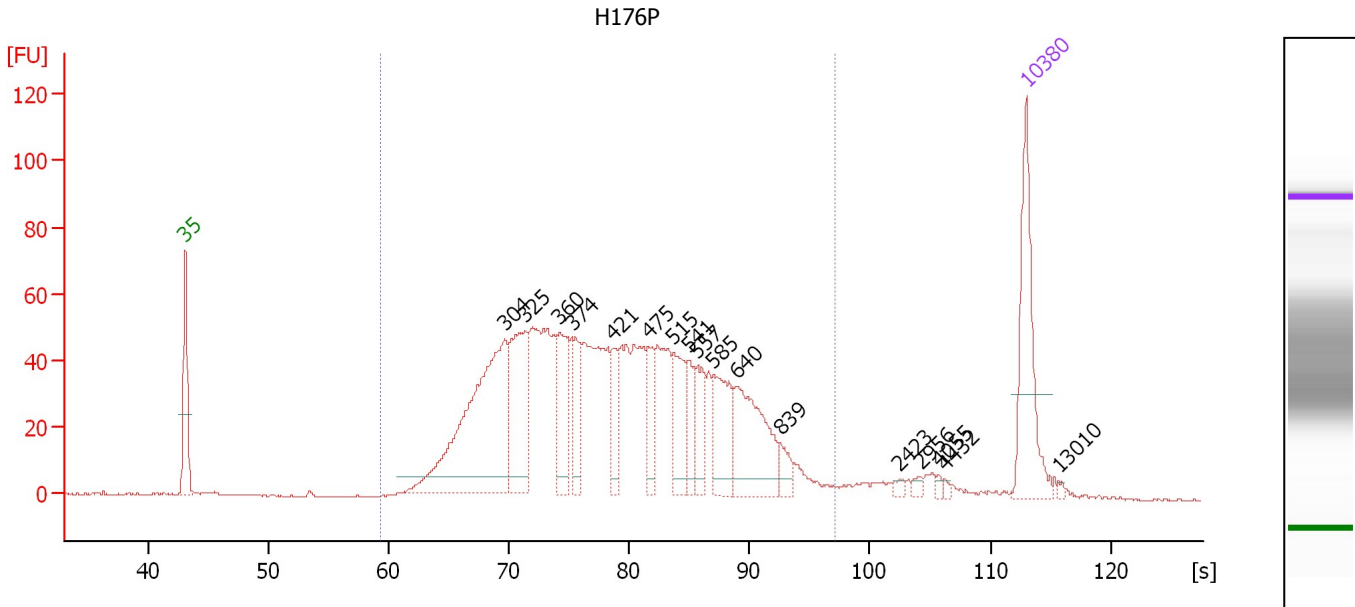
Peak table for Ladder

| 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 | 45.30 |
| 3 | 100 | 150.00 | 2,272.7 | Ladder Peak | 50.82 |
| 4 | 150 | 150.00 | 1,515.2 | Ladder Peak | 55.51 |
| 5 | 200 | 150.00 | 1,136.4 | Ladder Peak | 60.15 |
| 6 | 300 | 150.00 | 757.6 | Ladder Peak | 69.29 |
| 7 | 400 | 150.00 | 568.2 | Ladder Peak | 77.34 |
| 8 | 500 | 150.00 | 454.5 | Ladder Peak | 82.95 |
| 9 | 600 | 150.00 | 378.8 | Ladder Peak | 87.63 |
| 10 | 700 | 150.00 | 324.7 | Ladder Peak | 90.73 |
| 11 | 1,000 | 150.00 | 227.3 | Ladder Peak | 94.62 |
| 12 | 2,000 | 150.00 | 113.6 | Ladder Peak | 101.07 |
| 13 | 3,000 | 150.00 | 75.8 | Ladder Peak | 104.34 |
| 14 | 7,000 | 150.00 | 32.5 | Ladder Peak | 109.55 |
| 15 | 10,380 | 75.00 | 10.9 | Upper Marker | 113.00 |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-08-25\2015-08-25_001.xad

Created: 8/25/2015 10:21:23 AM
 Modified: 8/25/2015 10:51:14 AM

Electropherogram Summary Continued ...



Overall Results for sample 1 : H176P

Number of peaks found: 17 Corr. Area 1: 1,566.6
 Noise: 0.3

Peak table for sample 1 : H176P

| 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 | 304 | 262.94 | 1,311.6 | | 69.60 |
| 3 | 325 | 108.22 | 503.8 | | 71.34 |
| 4 | 360 | 66.33 | 278.8 | | 74.16 |
| 5 | 374 | 36.53 | 147.9 | | 75.27 |
| 6 | 421 | 31.90 | 114.7 | | 78.54 |
| 7 | 475 | 33.20 | 106.0 | | 81.53 |
| 8 | 515 | 53.51 | 157.6 | | 83.63 |
| 9 | 541 | 25.41 | 71.1 | | 84.88 |
| 10 | 557 | 34.11 | 92.9 | | 85.60 |
| 11 | 585 | 56.47 | 146.2 | | 86.94 |
| 12 | 640 | 91.26 | 216.1 | | 88.86 |
| 13 | 839 | 14.20 | 25.7 | | 92.53 |
| 14 | 2,423 | 3.21 | 2.0 | | 102.45 |
| 15 | 2,956 | 3.70 | 1.9 | | 104.19 |
| 16 | 4,055 | 2.34 | 0.9 | | 105.71 |
| 17 | 4,432 | 1.79 | 0.6 | | 106.21 |
| 18 | 10,380 | 75.00 | 10.9 | Upper Marker | 113.00 |
| 19 | 13,010 | 0.00 | 0.0 | | 115.68 |

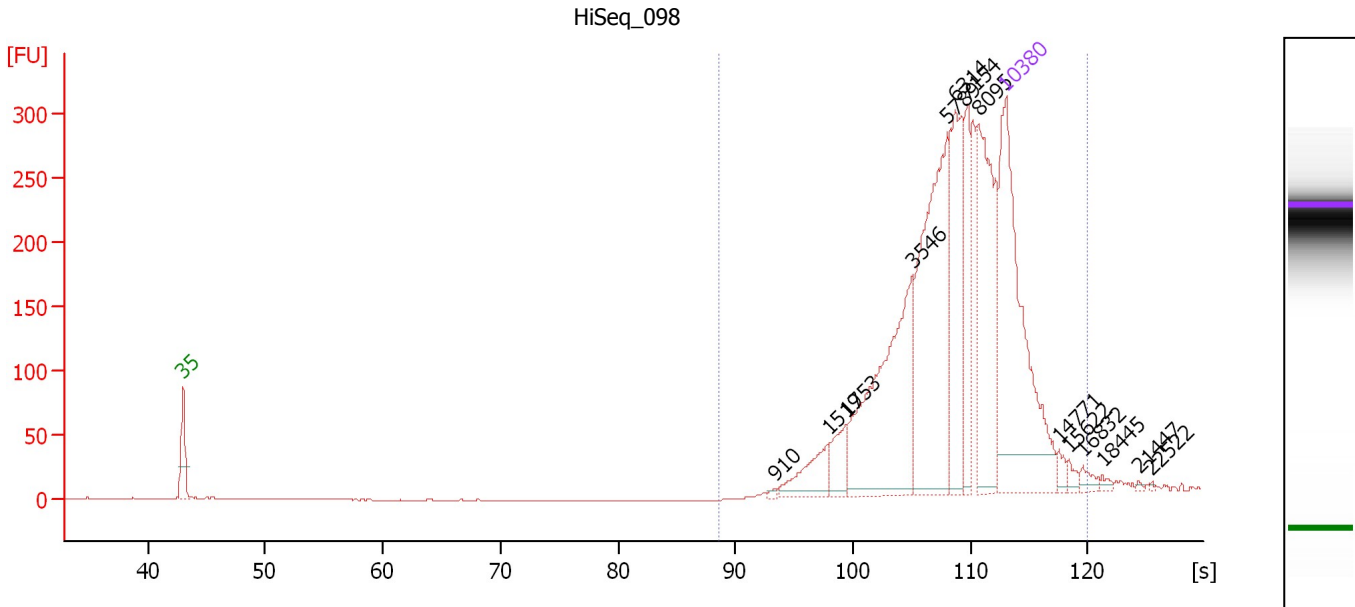
Region table for sample 1 : H176P

| From [s] | Average Size [bp] | To [s] | Corr. Area | Molarity [pmol/l] | Co % of lor Total | Size distribution in CV [%] | Conc. [pg/μl] |
|----------|-------------------|--------|------------|-------------------|-------------------|-----------------------------|---------------|
| 59.30 | 451 | 97.14 | 1,566.6 | 5,457.2 | 95 | 35.7 | 1,399.85 |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-08-25\2015-08-25_001.xad

Created: 8/25/2015 10:21:23 AM
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Electropherogram Summary Continued ...



Overall Results for sample 2 : HiSeq_098

Number of peaks found: 14 Corr. Area 1: 2,520.7
 Noise: 0.2

Peak table for sample 2 : HiSeq_098

| 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 | 910 | 0.79 | 1.3 | | 93.44 |
| 3 | 1,519 | 13.71 | 13.7 | | 97.97 |
| 4 | 1,753 | 9.94 | 8.6 | | 99.48 |
| 5 | 3,546 | 70.60 | 30.2 | | 105.05 |
| 6 | 5,789 | 81.83 | 21.4 | | 107.97 |
| 7 | 6,314 | 37.75 | 9.1 | | 108.66 |
| 8 | 7,154 | 23.59 | 5.0 | | 109.71 |
| 9 | 8,095 | 54.79 | 10.3 | | 110.67 |
| 10 | 10,380 | 75.00 | 10.9 | Upper Marker | 113.00 |
| 11 | 14,771 | 0.00 | 0.0 | | 117.48 |
| 12 | 15,622 | 0.00 | 0.0 | | 118.35 |
| 13 | 16,832 | 0.00 | 0.0 | | 119.58 |
| 14 | 18,445 | 0.00 | 0.0 | | 121.22 |
| 15 | 21,447 | 0.00 | 0.0 | | 124.29 |
| 16 | 22,522 | 0.00 | 0.0 | | 125.38 |

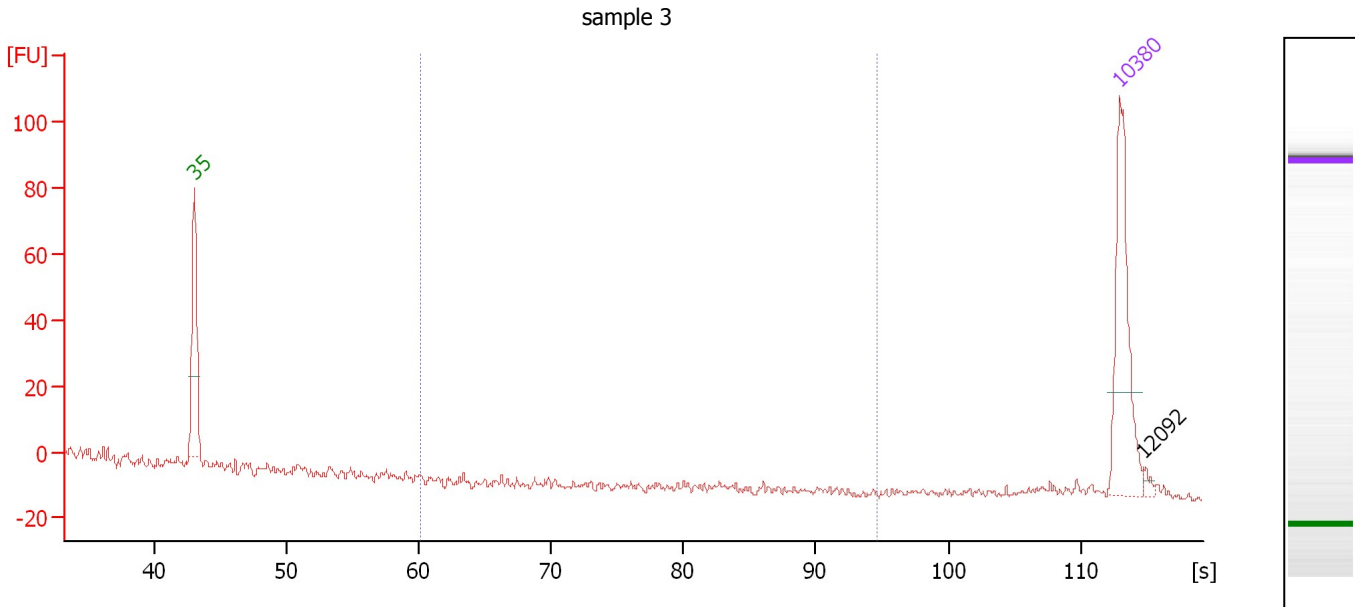
Region table for sample 2 : HiSeq_098

| From [s] | Average Size [bp] | To [s] | Corr. Area | Molarity [pmol/l] | Co % of lor Total | Size distribution in CV [%] | Conc. [pg/μl] |
|----------|-------------------|--------|------------|-------------------|-------------------|-----------------------------|---------------|
| 88.55 | 6,817 | 119.95 | 2,520.7 | 113.2 | 99 | 50.3 | 306.96 |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-08-25\2015-08-25_001.xad

Created: 8/25/2015 10:21:23 AM
 Modified: 8/25/2015 10:51:14 AM

Electropherogram Summary Continued ...



Overall Results for sample 3 : sample 3

Number of peaks found: 1 Corr. Area 1: 0.0
 Noise: 1.6

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 | 10,380 | 75.00 | 10.9 | Upper Marker | 113.00 |
| 3 | 12,092 | 0.00 | 0.0 | | 114.75 |

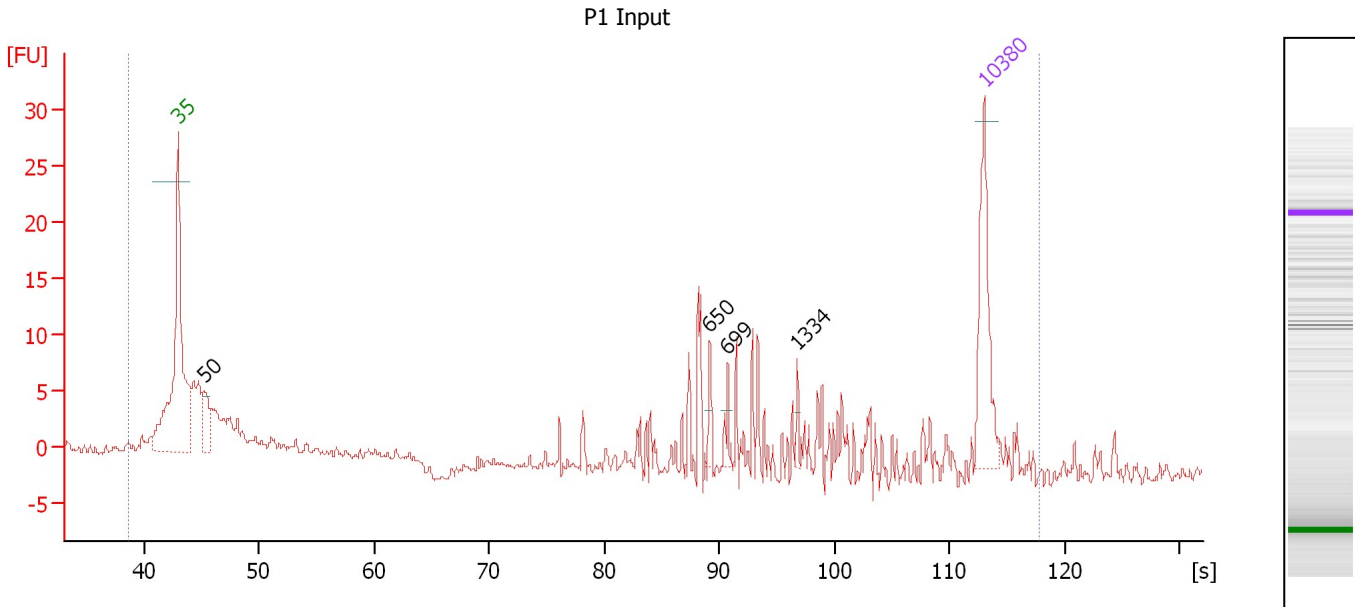
Region table for sample 3 : sample 3

| From [s] | Average Size [bp] | To [s] | Corr. Area | Molarity [pmol/l] | Co % of lor Total | Size distribution in CV [%] | Conc. [pg/μl] |
|----------|-------------------|--------|------------|-------------------|-------------------|-----------------------------|---------------|
| 60.15 | 565 | 94.62 | 0.0 | 0.0 | 0 | 0.1 | 0.01 |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-08-25\2015-08-25_001.xad

Created: 8/25/2015 10:21:23 AM
 Modified: 8/25/2015 10:51:14 AM

Electropherogram Summary Continued ...



Overall Results for sample 4 : P1 Input

Number of peaks found: 4 Corr. Area 1: 124.1
 Noise: 0.3

Peak table for sample 4 : P1 Input

| 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 | 46.44 | 1,418.4 | | 45.24 |
| 3 | 650 | 12.56 | 29.3 | | 89.17 |
| 4 | 699 | 12.78 | 27.7 | | 90.71 |
| 5 | 1,334 | 8.28 | 9.4 | | 96.77 |
| 6 | 10,380 | 75.00 | 10.9 | Upper Marker | 113.00 |

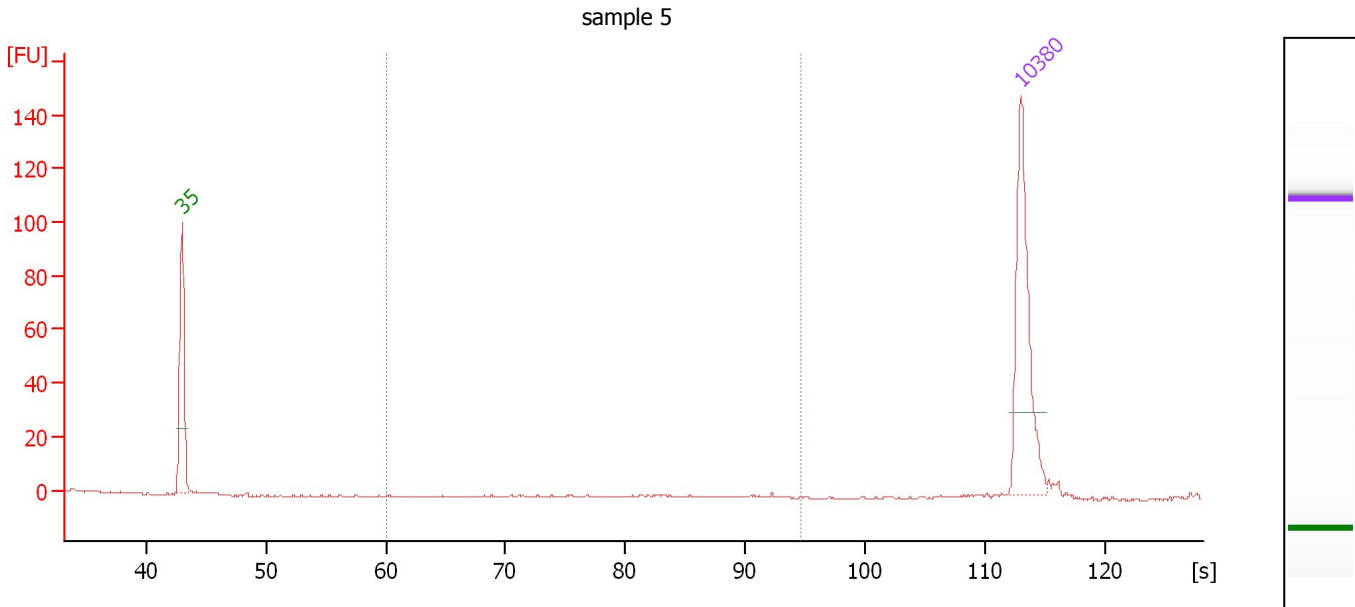
Region table for sample 4 : P1 Input

| From [s] | Average Size [bp] | To [s] | Corr. Area | Molarity [pmol/l] | Co % of lor Total | Size distribution in CV [%] | Conc. [pg/μl] |
|----------|-------------------|--------|------------|-------------------|-------------------|-----------------------------|---------------|
| 38.75 | 3,239 | 117.71 | 124.1 | 10,217.1 | 96 | 100.0 | 565.90 |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-08-25\2015-08-25_001.xad

Created: 8/25/2015 10:21:23 AM
 Modified: 8/25/2015 10:51:14 AM

Electropherogram Summary Continued ...



Overall Results for sample 5 : sample 5

Number of peaks found: 0 Corr. Area 1: 0.0
 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 | 10,380 | 75.00 | 10.9 | Upper Marker | 113.00 |

Region table for sample 5 : sample 5

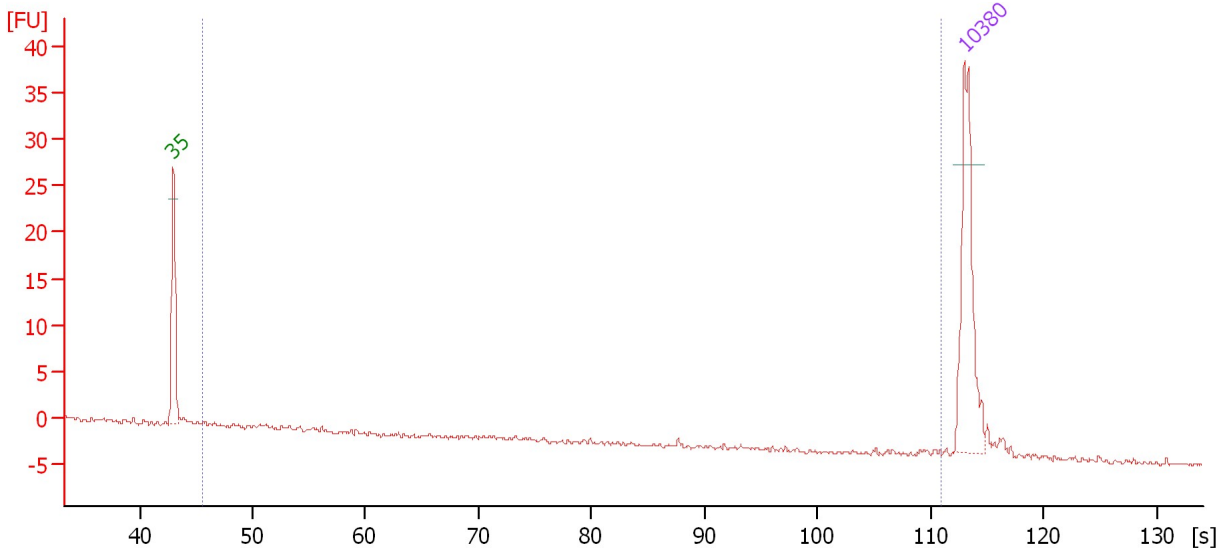
| From [s] | Average Size [bp] | To [s] | Corr. Area | Molarity [pmol/l] | Co % of lor Total | Size distribution in CV [%] | Conc. [pg/μl] |
|----------|-------------------|--------|------------|-------------------|-------------------|-----------------------------|---------------|
| 60.15 | 0 | 94.62 | 0.0 | 0.0 | 0 | 0.0 | 0.00 |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-08-25\2015-08-25_001.xad

Created: 8/25/2015 10:21:23 AM
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Electropherogram Summary Continued ...

P2-6



Overall Results for sample 6 : P2-6

Number of peaks found: 0 Corr. Area 1: 1.5
 Noise: 0.2

Peak table for sample 6 : P2-6

| 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 |

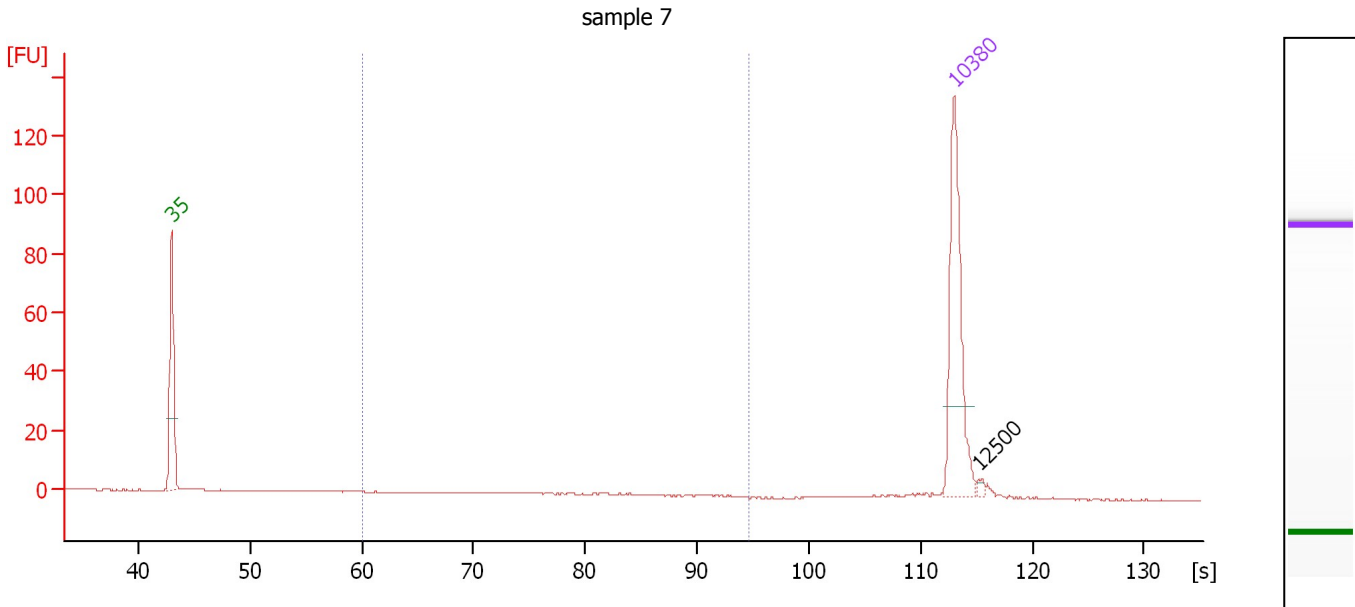
Region table for sample 6 : P2-6

| From [s] | Average Size [bp] | To [s] | Corr. Area | Molarity [pmol/l] | Co % of lor Total | Size distribution in CV [%] | Conc. [pg/μl] |
|----------|-------------------|--------|------------|-------------------|-------------------|-----------------------------|---------------|
| 45.59 | 3,033 | 110.91 | 1.5 | 56.5 | 20 | 100.0 | 4.26 |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-08-25\2015-08-25_001.xad

Created: 8/25/2015 10:21:23 AM
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Electropherogram Summary Continued ...



Overall Results for sample 7 : sample 7

Number of peaks found: 1 Corr. Area 1: 9.5
 Noise: 0.1

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 | 10,380 | 75.00 | 10.9 | Upper Marker | 113.00 |
| 3 | 12,500 | 0.00 | 0.0 | | 115.16 |

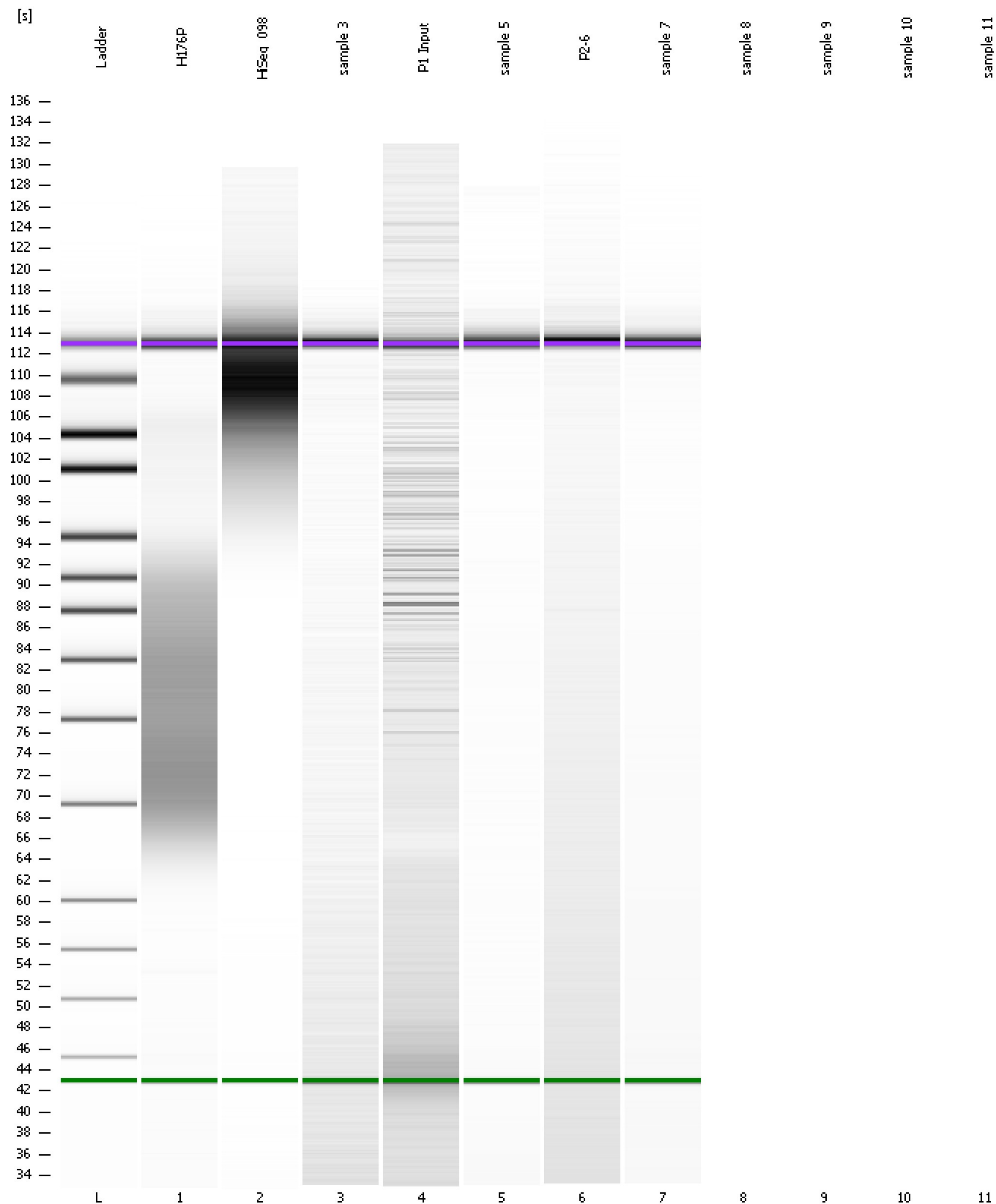
Region table for sample 7 : sample 7

| From [s] | Average Size [bp] | To [s] | Corr. Area | Molarity [pmol/l] | Co % of lor Total | Size distribution in CV [%] | Conc. [pg/μl] |
|----------|-------------------|--------|------------|-------------------|-------------------|-----------------------------|---------------|
| 60.15 | 422 | 94.62 | 9.5 | 32.0 | 25 | 33.8 | 7.58 |

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-08-25\2015-08-25_001.xad

Created: 8/25/2015 10:21:23 AM
Modified: 8/25/2015 10:51:14 AM

Gel Image



Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-08-25\2015-08-25_001.xad

Created: 8/25/2015 10:21:23 AM
Modified: 8/25/2015 10:51:14 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.