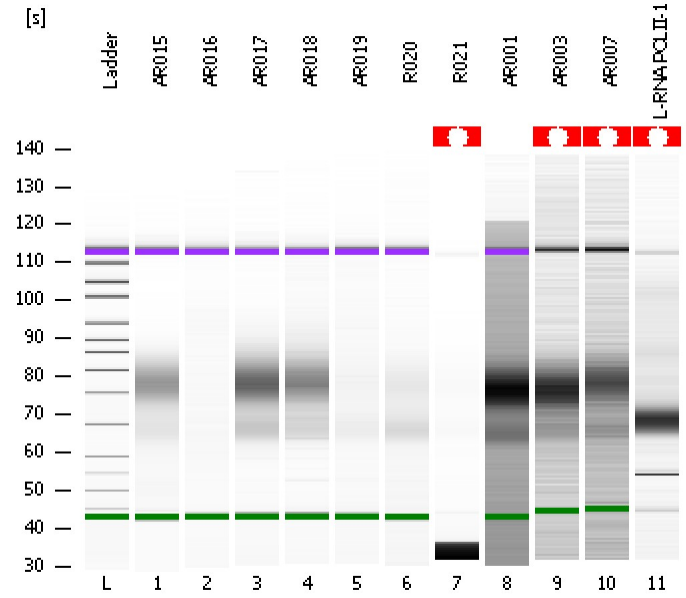
Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-03-05\2012-03-05_001.xad

Created: 3/5/2012 9:53:35 AM
Modified: 3/5/2012 11:03:59 AM

## Electrophoresis File Run Summary




Instrument Information:

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

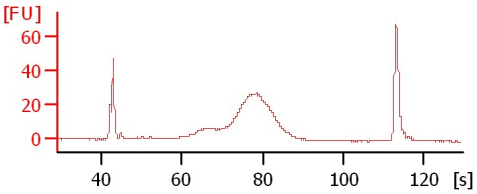
Assay Information:

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

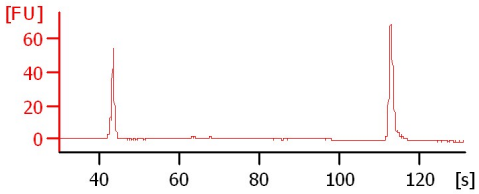
Chip Information:

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

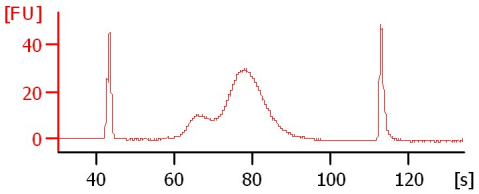
**AR015**



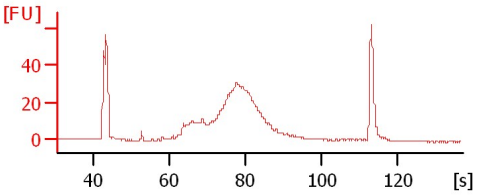

**AR016**



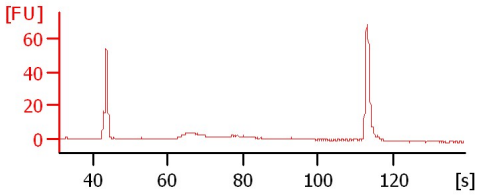

**AR017**



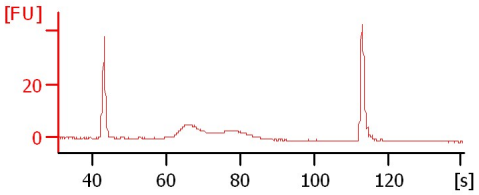

**AR018**



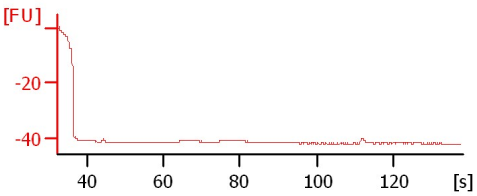

**AR019**



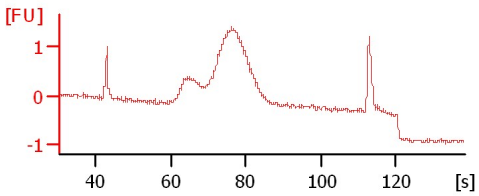

**R020**



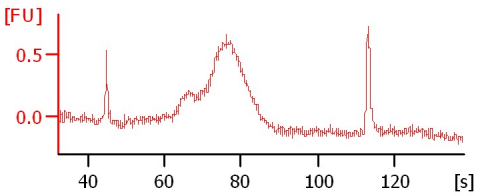

**R021**



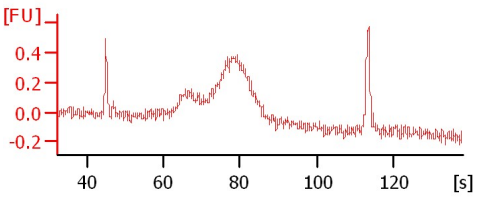

**AR001**



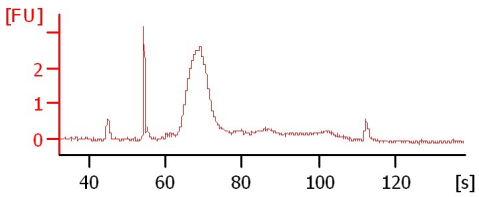

**AR003**




**AR007**




**L-RNA POLII-1**





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Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-03-05\2012-03-05_001.xad

Created: 3/5/2012 9:53:35 AM
Modified: 3/5/2012 11:03:59 AM

**Electrophoresis File Run Summary (Chip Summary)**

| Sample Name | Sample Comment | Rest. Digest | Status | Observation | Result Label | Result Color |
|---|---|---|---|---|---|---|
| AR015 | | ☐ | ✔ | | | |
| AR016 | | ☐ | ✔ | | | |
| AR017 | | ☐ | ✔ | | | |
| AR018 | | ☐ | ✔ | | | |
| AR019 | | ☐ | ✔ | | | |
| R020 | | ☐ | ✔ | | | |
| R021 | | ☐ | ✔ | | | |
| AR001 | | ☐ | ✔ | | | |
| AR003 | | ☐ | ✔ | | | |
| AR007 | | ☐ | ✔ | | | |
| L-RNA POLII-1 | | ☐ | ✔ | | | |
| Ladder | | ☐ | ✔ | | | |

**Chip Lot #** **Reagent Kit Lot #**

**Chip Comments :**


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Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-03-05\2012-03-05_001.xad

Created: 3/5/2012 9:53:35 AM
Modified: 3/5/2012 11:03:59 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 |


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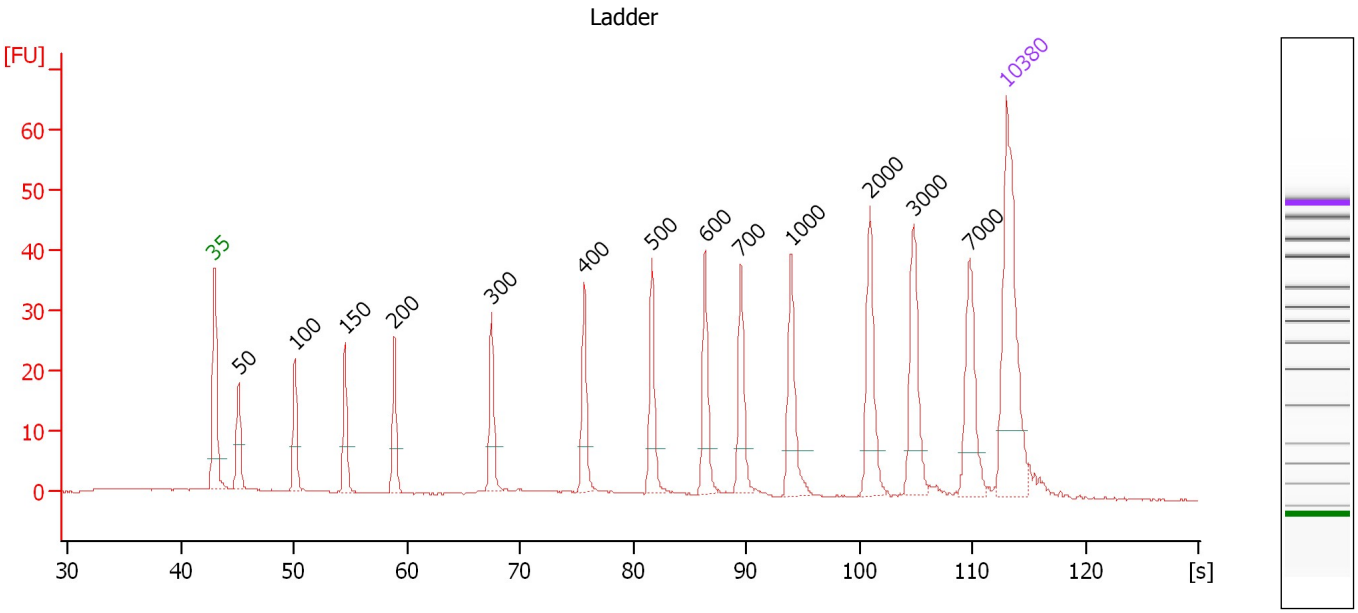
Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-03-05\2012-03-05_001.xad

Created: 3/5/2012 9:53:35 AM
Modified: 3/5/2012 11:03:59 AM

## 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 |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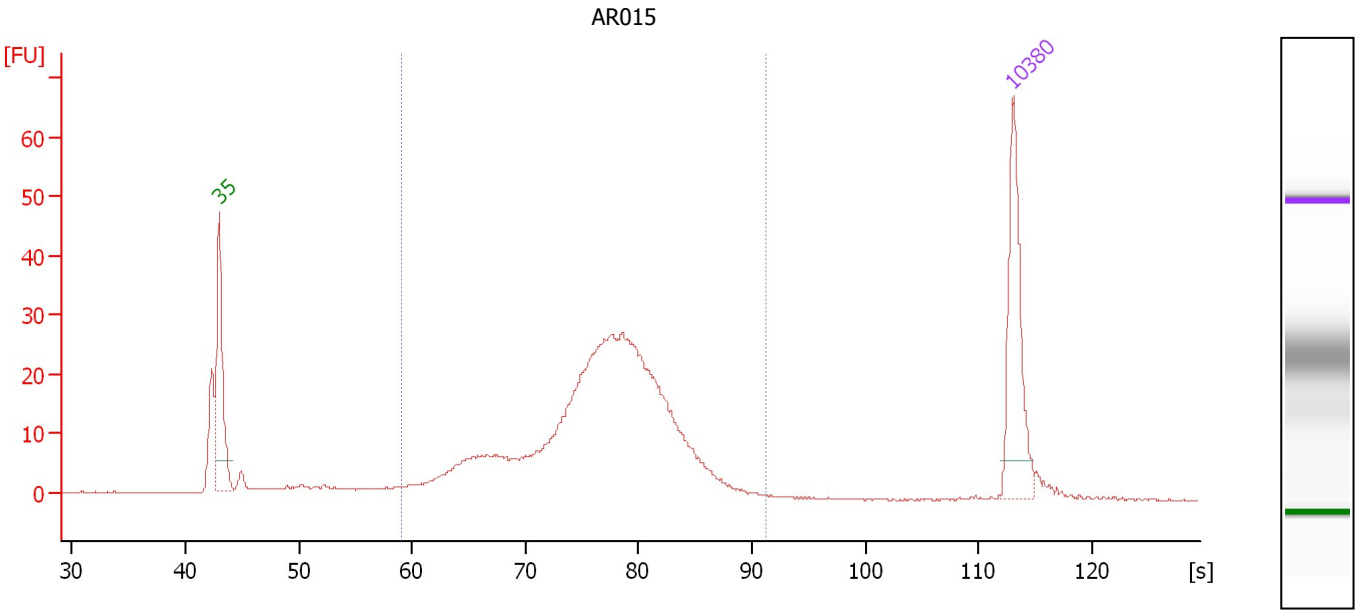
Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-03-05\2012-03-05_001.xad

Created: 3/5/2012 9:53:35 AM
Modified: 3/5/2012 11:03:59 AM

**Electropherogram Summary Continued ...**




**Setpoint Deviations for sample 1 : AR015**

Height Threshold [FU] : 40

**Overall Results for sample 1 : AR015**

| | | | |
|---|---|---|---|
| Number of peaks found: | 0 | Corr. Area 1: | 426.0 |
| Noise: | 0.1 | | |

**Peak table for sample 1 : AR015**

| Peak | Size [bp] | Conc. [pg/µl] | Molarity [pmol/l] | Observations |
|---|---|---|---|---|
| 1 | 35 | 125.00 | 5,411.3 | Lower Marker |
| 2 | 10,380 | 75.00 | 10.9 | Upper Marker |

**Region table for sample 1 : AR015**

| From [bp] | Molarity [pmol/l] | Average Size [bp] | Conc. [pg/µl] | To [bp] | Corr. Area | % of Total | Size distribution in CV [%] | Color |
|---|---|---|---|---|---|---|---|---|
| 202 | 2,433.2 | 424 | 631.92 | 815 | 426.0 | 86 | 21.1 | |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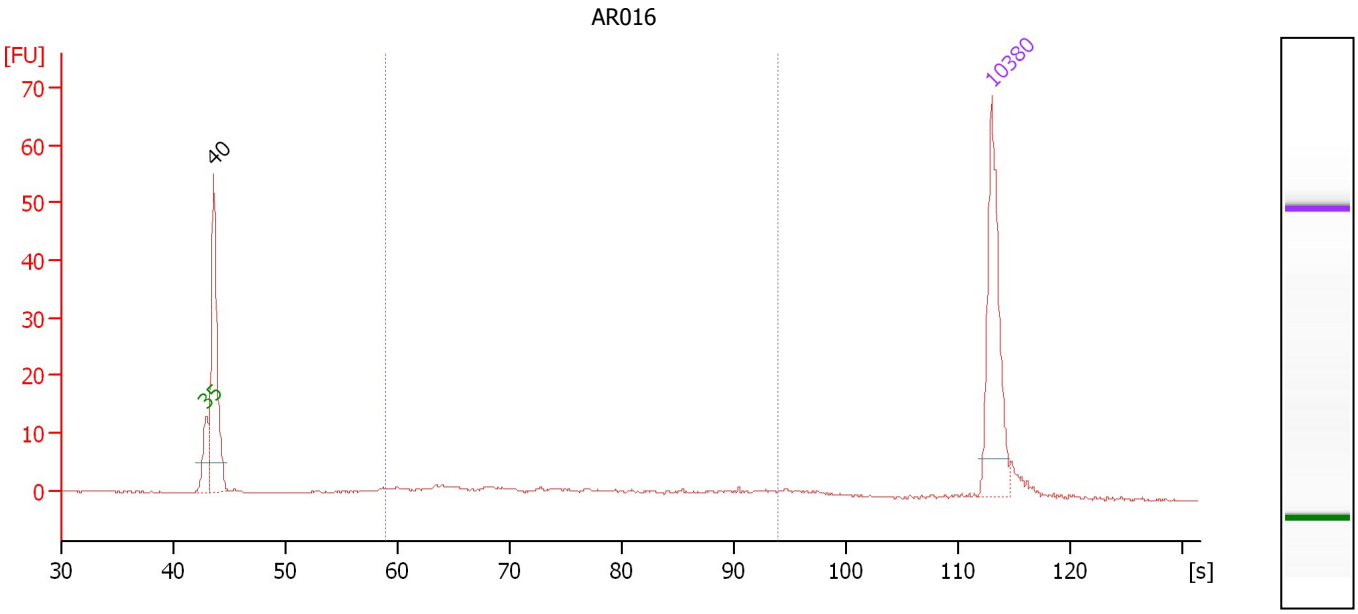
Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-03-05\2012-03-05_001.xad

Created: 3/5/2012 9:53:35 AM
Modified: 3/5/2012 11:03:59 AM

**Electropherogram Summary Continued ...**




**Overall Results for sample 2 : AR016**

| | | | |
|---|---|---|---|
| Number of peaks found: | 1 | Corr. Area 1: | 43.6 |
| Noise: | 0.2 | | |

**Peak table for sample 2 : AR016**

| Peak | Size [bp] | Conc. [pg/µl] | Molarity [pmol/l] | Observations |
|---|---|---|---|---|
| 1 | 35 | 125.00 | 5,411.3 | Lower Marker |
| 2 | 40 | 171.00 | 6,525.5 | |
| 3 | 10,380 | 75.00 | 10.9 | Upper Marker |

**Region table for sample 2 : AR016**

| From [bp] | Molarity [pmol/l] | Average Size [bp] | Conc. [pg/µl] | To [bp] | Corr. Area | % of Total | Size distribution in CV [%] | Color |
|---|---|---|---|---|---|---|---|---|
| 200 | 291.1 | 456 | 67.88 | 1,000 | 43.6 | 30 | 44.8 | |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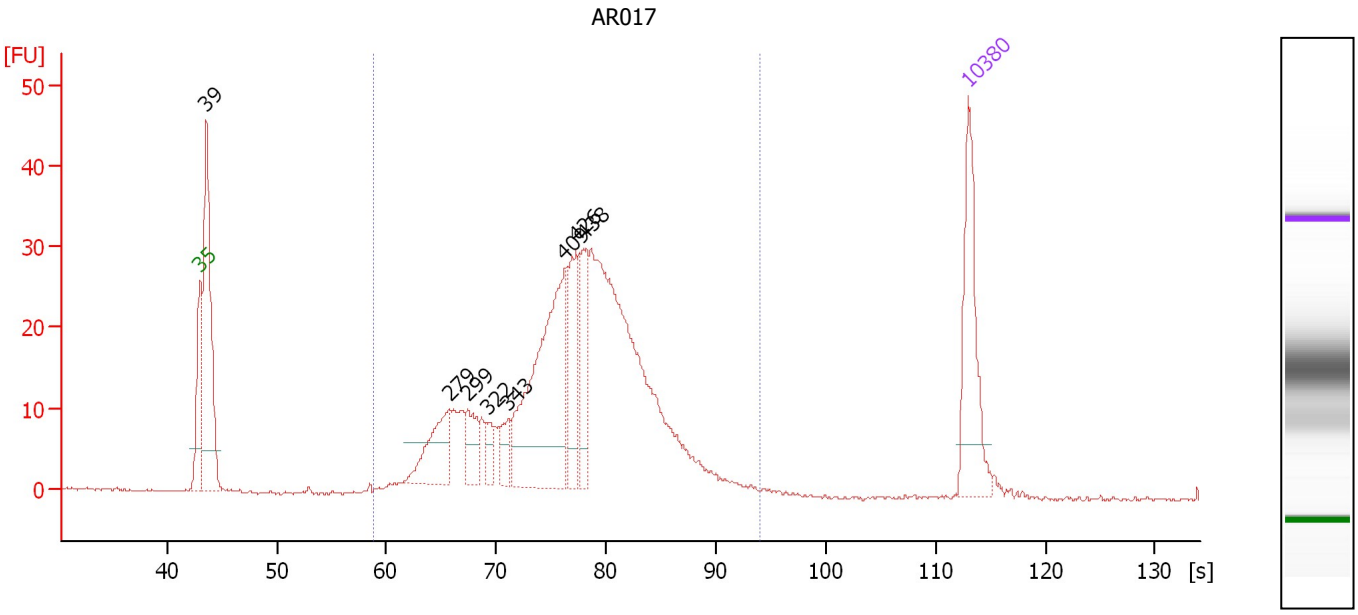
Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-03-05\2012-03-05_001.xad

Created: 3/5/2012 9:53:35 AM
Modified: 3/5/2012 11:03:59 AM

**Electropherogram Summary Continued ...**




**Overall Results for sample 3 : AR017**

| | | | |
|---|---|---|---|
| Number of peaks found: | 8 | Corr. Area 1: | 516.2 |
| Noise: | 0.2 | | |

**Peak table for sample 3 : AR017**

| Peak | | Size [bp] | Conc. [pg/µl] | Molarity [pmol/l] | Observations |
|---|---|---|---|---|---|
| 1 | ◀ | 35 | 125.00 | 5,411.3 | Lower Marker |
| 2 | | 39 | 232.93 | 9,020.7 | |
| 3 | | 279 | 66.62 | 361.6 | |
| 4 | | 299 | 34.93 | 177.3 | |
| 5 | | 322 | 14.71 | 69.3 | |
| 6 | | 343 | 20.77 | 91.6 | |
| 7 | | 409 | 215.26 | 796.8 | |
| 8 | | 426 | 64.97 | 230.9 | |
| 9 | | 438 | 63.04 | 218.2 | |
| 10 | ▶ | 10,380 | 75.00 | 10.9 | Upper Marker |

**Region table for sample 3 : AR017**

| From [bp] | Molarity [pmol/l] | Average Size [bp] | Conc. [pg/µl] | To [bp] | Corr. Area | % of Total | Size distribution in CV [%] | Color |
|---|---|---|---|---|---|---|---|---|
| 200 | 3,870.8 | 435 | 1,017.76 | 1,000 | 516.2 | 86 | 24.5 | |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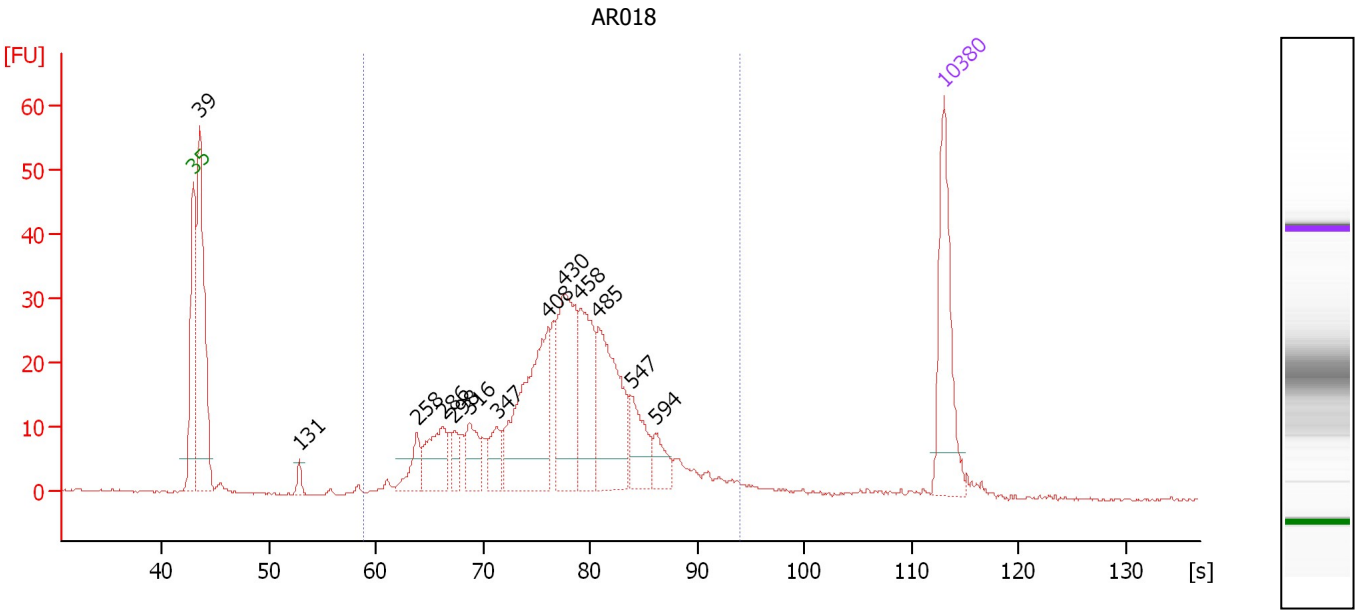
Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-03-05\2012-03-05_001.xad

Created: 3/5/2012 9:53:35 AM
Modified: 3/5/2012 11:03:59 AM

**Electropherogram Summary Continued ...**




**Overall Results for sample 4 : AR018**

| | | | |
|---|---|---|---|
| Number of peaks found: | 13 | Corr. Area 1: | 523.8 |
| Noise: | 0.2 | | |

**Peak table for sample 4 : AR018**

| Peak | Size [bp] | Conc. [pg/µl] | Molarity [pmol/l] | Observations |
|---|---|---|---|---|
| 1 | 35 | 125.00 | 5,411.3 | Lower Marker |
| 2 | 39 | 241.33 | 9,406.7 | |
| 3 | 131 | 9.34 | 107.9 | |
| 4 | 258 | 27.66 | 162.7 | |
| 5 | 286 | 52.66 | 279.4 | |
| 6 | 298 | 15.00 | 76.2 | |
| 7 | 316 | 34.37 | 165.1 | |
| 8 | 347 | 24.97 | 109.1 | |
| 9 | 408 | 147.86 | 549.4 | |
| 10 | 430 | 119.17 | 419.7 | |
| 11 | 458 | 82.72 | 273.8 | |
| 12 | 485 | 113.03 | 353.0 | |
| 13 | 547 | 38.50 | 106.6 | |
| 14 | 594 | 20.21 | 51.5 | |
| 15 | 10,380 | 75.00 | 10.9 | Upper Marker |

**Region table for sample 4 : AR018**

| From [bp] | Molarity [pmol/l] | Average Size [bp] | Conc. [pg/µl] | To [bp] | Corr. Area | % of Total | Size distribution in CV [%] | Color |
|---|---|---|---|---|---|---|---|---|
| 200 | 3,103.7 | 445 | 827.76 | 1,000 | 523.8 | 80 | 26.5 | |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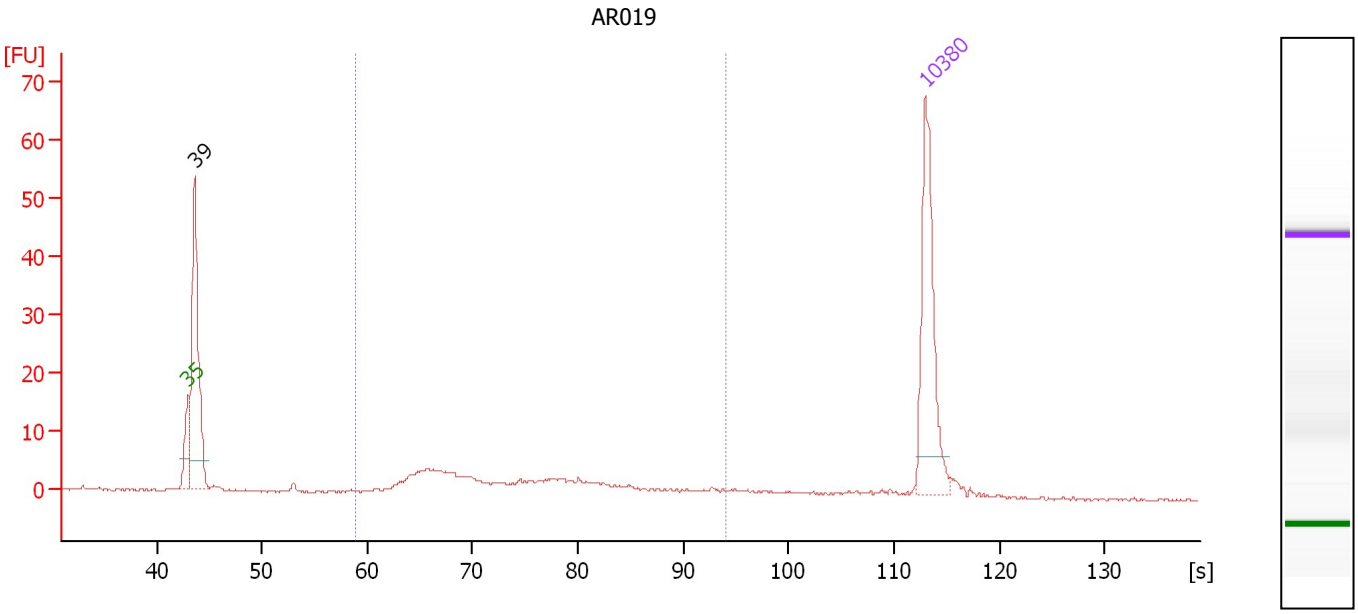
Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-03-05\2012-03-05_001.xad

Created: 3/5/2012 9:53:35 AM
Modified: 3/5/2012 11:03:59 AM

**Electropherogram Summary Continued ...**




**Overall Results for sample 5 : AR019**

| | | | |
|---|---|---|---|
| Number of peaks found: | 1 | Corr. Area 1: | 81.0 |
| Noise: | 0.2 | | |

**Peak table for sample 5 : AR019**

| Peak | | Size [bp] | Conc. [pg/µl] | Molarity [pmol/l] | Observations |
|---|---|---|---|---|---|
| 1 | ◀ | 35 | 125.00 | 5,411.3 | Lower Marker |
| 2 | | 39 | 173.11 | 6,674.3 | |
| 3 | ▶ | 10,380 | 75.00 | 10.9 | Upper Marker |

**Region table for sample 5 : AR019**

| From [bp] | Molarity [pmol/l] | Average Size [bp] | Conc. [pg/µl] | To [bp] | Corr. Area | % of Total | Size distribution in CV [%] | Color |
|---|---|---|---|---|---|---|---|---|
| 200 | 499.6 | 416 | 117.26 | 1,000 | 81.0 | 43 | 37.9 | |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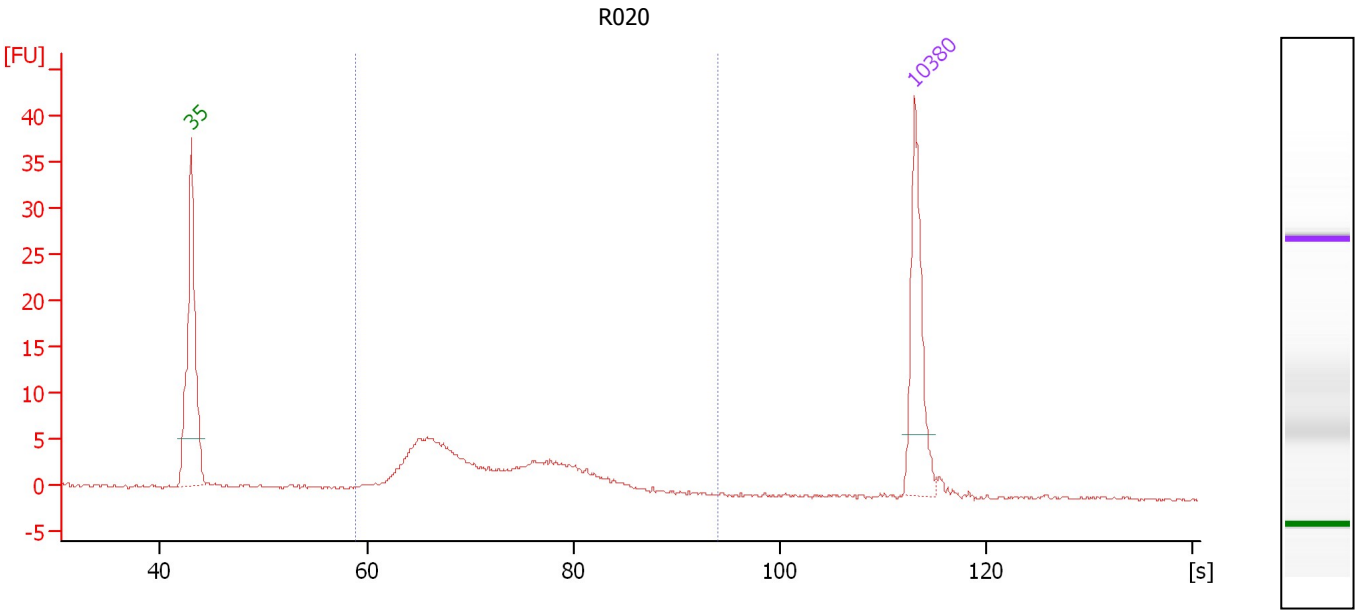
Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-03-05\2012-03-05_001.xad

Created: 3/5/2012 9:53:35 AM
Modified: 3/5/2012 11:03:59 AM

**Electropherogram Summary Continued ...**




**Overall Results for sample 6 : R020**

| | | | |
|---|---|---|---|
| Number of peaks found: | 0 | Corr. Area 1: | 97.3 |
| Noise: | 0.1 | | |

**Peak table for sample 6 : R020**

| Peak | Size [bp] | Conc. [pg/µl] | Molarity [pmol/l] | Observations |
|---|---|---|---|---|
| 1 | 35 | 125.00 | 5,411.3 | Lower Marker |
| 2 | 10,380 | 75.00 | 10.9 | Upper Marker |

**Region table for sample 6 : R020**

| From [bp] | Molarity [pmol/l] | Average Size [bp] | Conc. [pg/µl] | To [bp] | Corr. Area | % of Total | Size distribution in CV [%] | Color |
|---|---|---|---|---|---|---|---|---|
| 200 | 1,140.1 | 363 | 249.78 | 1,000 | 97.3 | 90 | 26.3 | |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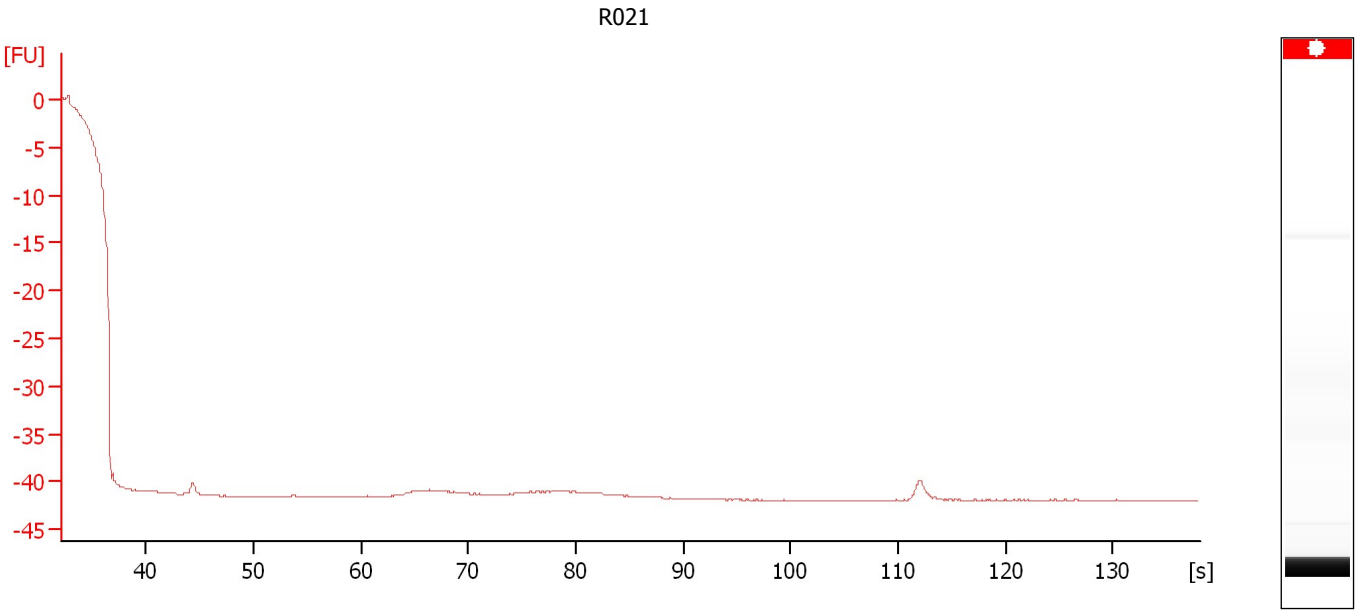
Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-03-05\2012-03-05_001.xad

Created: 3/5/2012 9:53:35 AM
Modified: 3/5/2012 11:03:59 AM

**Electropherogram Summary Continued ...**




**Overall Results for sample 7 : R021**

Noise: 0.0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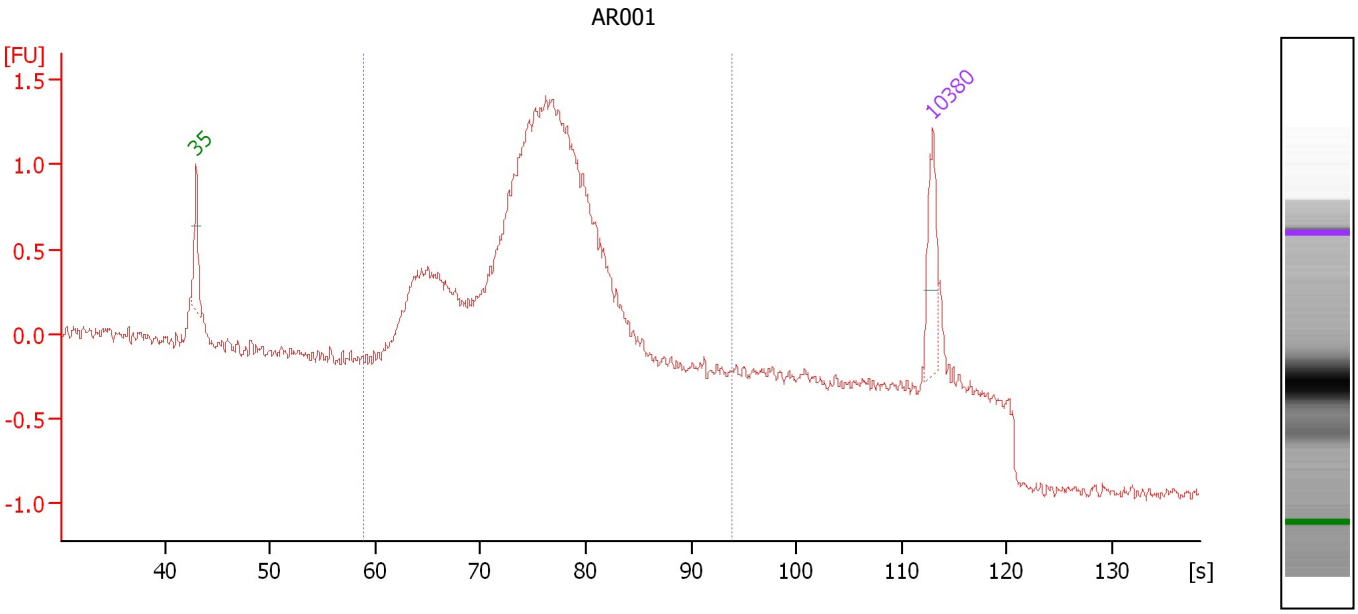
Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-03-05\2012-03-05_001.xad

Created: 3/5/2012 9:53:35 AM
Modified: 3/5/2012 11:03:59 AM

**Electropherogram Summary Continued ...**




**Setpoint Deviations for sample 8 : AR001**

Height Threshold [FU] : 0.5

**Overall Results for sample 8 : AR001**

| | | | |
|---|---|---|---|
| Number of peaks found: | 0 | Corr. Area 1: | 33.0 |
| Noise: | 0.0 | | |

**Peak table for sample 8 : AR001**

| Peak | Size [bp] | Conc. [pg/µl] | Molarity [pmol/l] | Observations |
|---|---|---|---|---|
| 1 | 35 | 125.00 | 5,411.3 | Lower Marker |
| 2 | 10,380 | 75.00 | 10.9 | Upper Marker |

**Region table for sample 8 : AR001**

| From [bp] | Molarity [pmol/l] | Average Size [bp] | Conc. [pg/µl] | To [bp] | Corr. Area | % of Total | Size distribution in CV [%] | Color |
|---|---|---|---|---|---|---|---|---|
| 200 | 12,290.2 | 435 | 3,109.91 | 1,000 | 33.0 | 72 | 32.6 | |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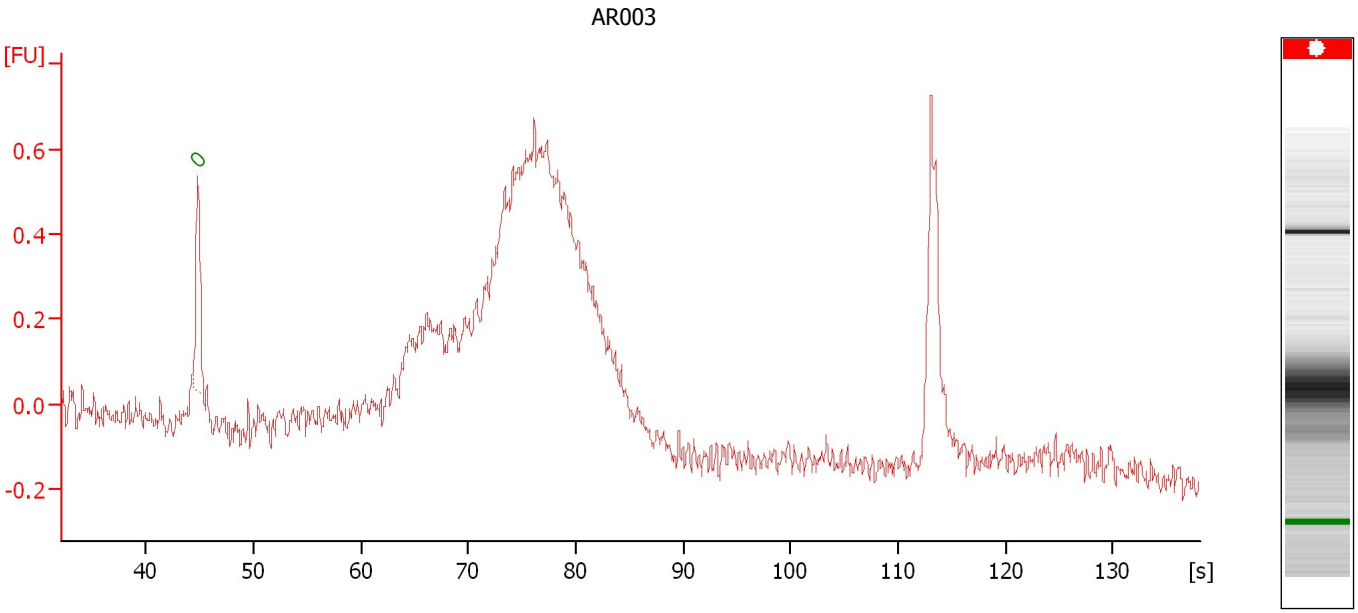
Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-03-05\2012-03-05_001.xad

Created: 3/5/2012 9:53:35 AM
Modified: 3/5/2012 11:03:59 AM

**Electropherogram Summary Continued ...**




**Setpoint Deviations for sample 9 : AR003**

Height Threshold [FU] : 0.5

**Overall Results for sample 9 : AR003**

Number of peaks found: 0 Noise: 0.0

**Peak table for sample 9 : AR003**

| Peak | Size [bp] | Conc. [pg/µl] | Molarity [pmol/l] | Observations |
|---|---|---|---|---|
| 1 | 0 | 0.00 | 0.0 | Lower Marker |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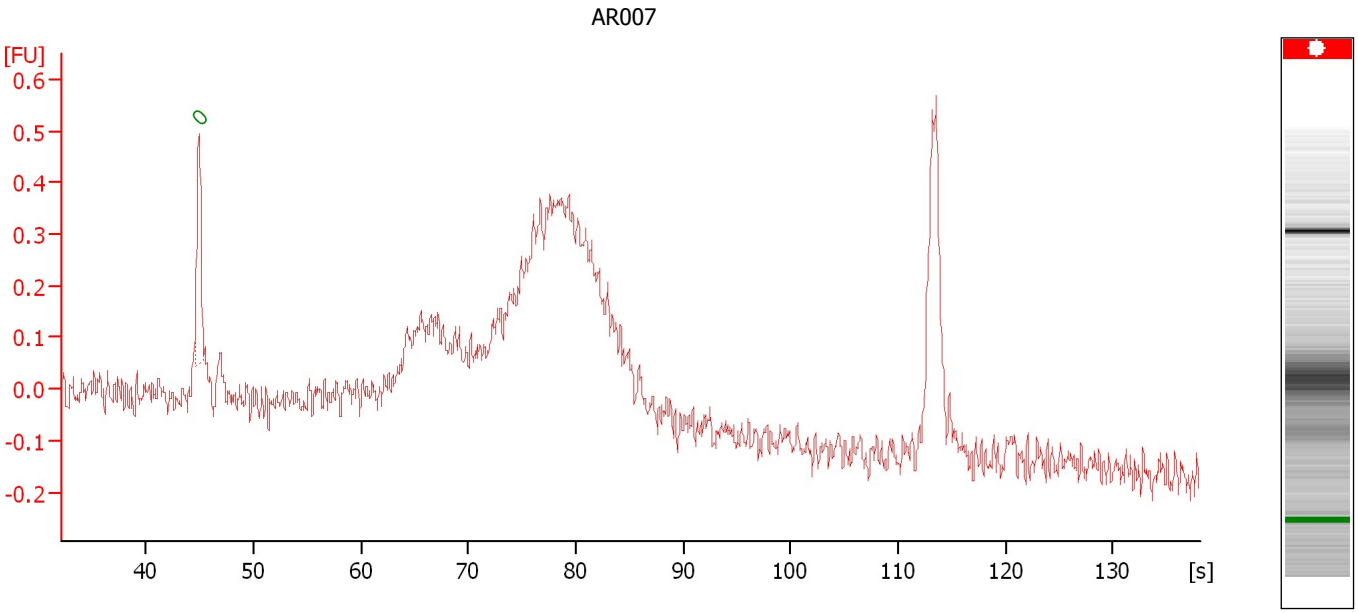
Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-03-05\2012-03-05_001.xad

Created: 3/5/2012 9:53:35 AM
Modified: 3/5/2012 11:03:59 AM

**Electropherogram Summary Continued ...**




**Setpoint Deviations for sample 10 : AR007**

Height Threshold [FU] : 0.1

**Overall Results for sample 10 : AR007**

Number of peaks found: 0 Noise: 0.0

**Peak table for sample 10 : AR007**

| Peak | Size [bp] | Conc. [pg/µl] | Molarity [pmol/l] | Observations |
|---|---|---|---|---|
| 1 | 0 | 0.00 | 0.0 | Lower Marker |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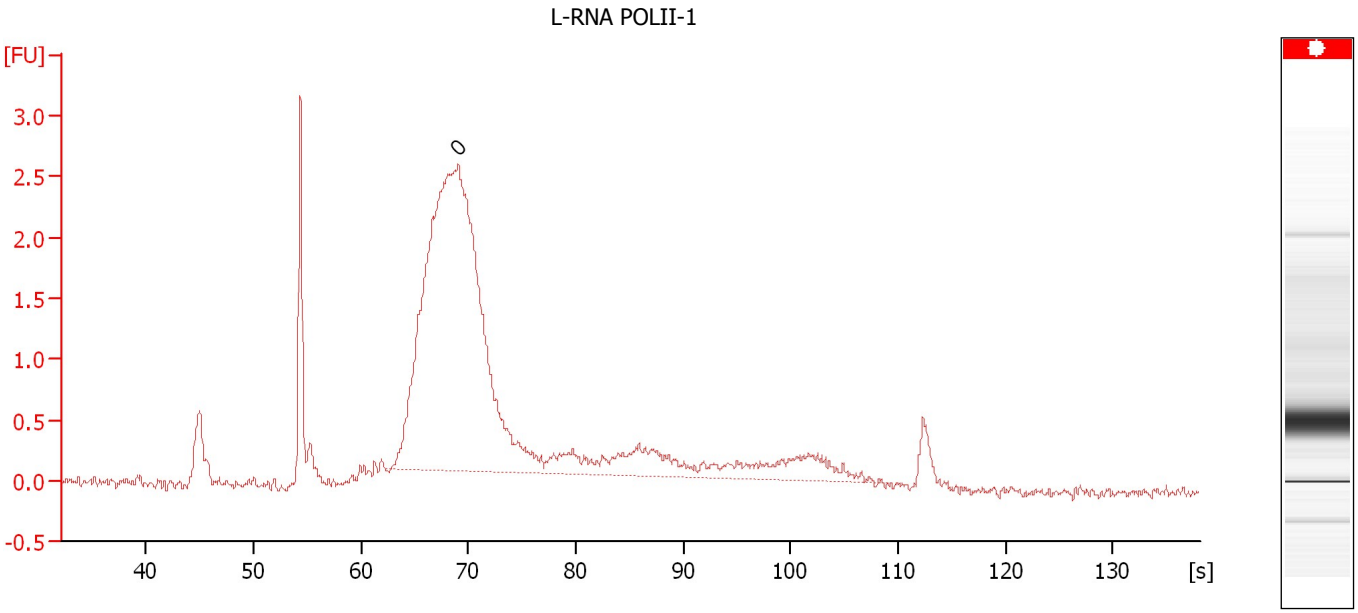
Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-03-05\2012-03-05_001.xad

Created: 3/5/2012 9:53:35 AM
Modified: 3/5/2012 11:03:59 AM

**Electropherogram Summary Continued ...**




**Setpoint Deviations for sample 11 : L-RNA POLII-1**

Height Threshold [FU] : 0.5

**Overall Results for sample 11 : L-RNA POLII-1**

Number of peaks found: 0 Noise: 0.0

**Peak table for sample 11 : L-RNA POLII-1**

| Peak | Size [bp] | Conc. [pg/µl] | Molarity [pmol/l] | Observations |
|---|---|---|---|---|
| 1 | 0 | 0.00 | 0.0 | |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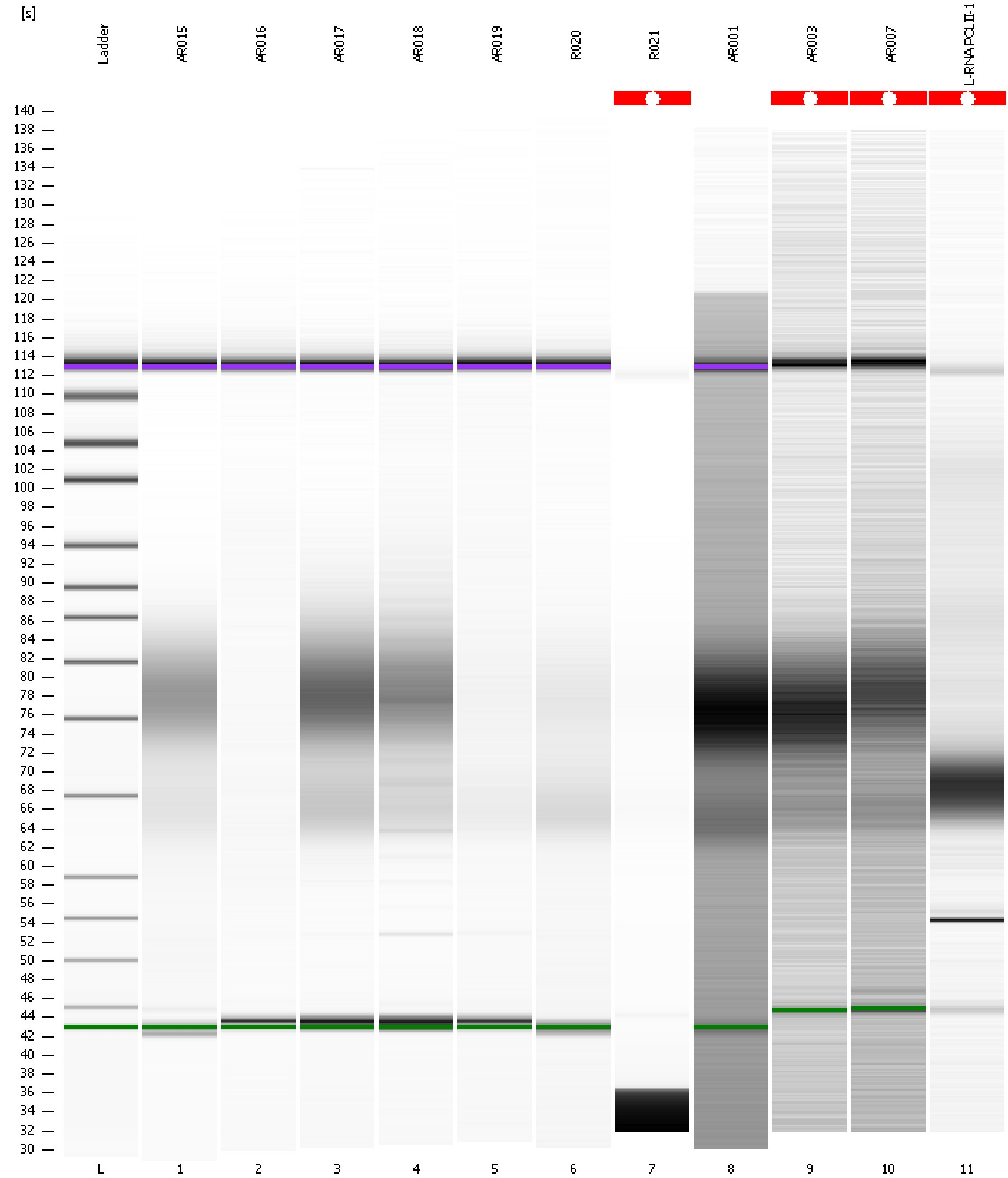
Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-03-05\2012-03-05_001.xad

Created: 3/5/2012 9:53:35 AM
Modified: 3/5/2012 11:03:59 AM

**Gel Image**





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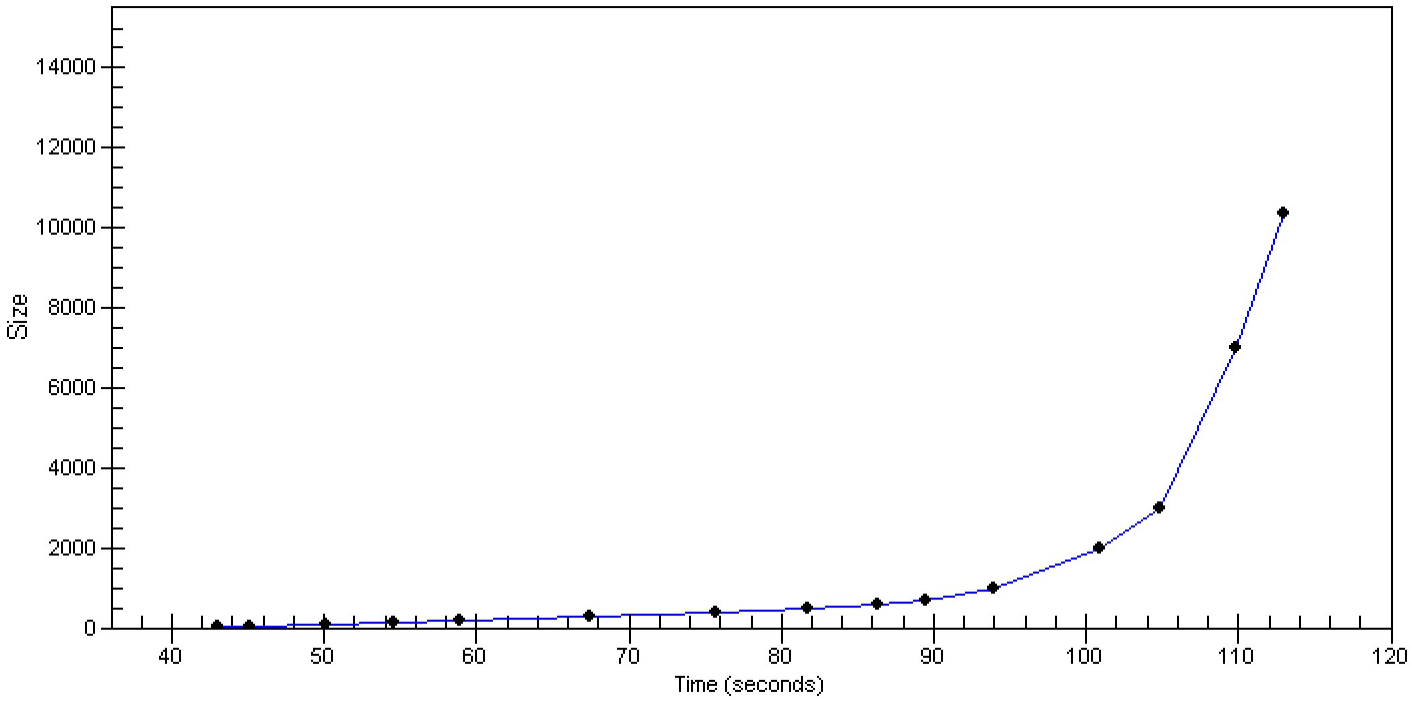
Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-03-05\2012-03-05_001.xad

Created: 3/5/2012 9:53:35 AM
Modified: 3/5/2012 11:03:59 AM

## Curves

### Standard Curve





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Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2012-03-05\2012-03-05_001.xad

Created: 3/5/2012 9:53:35 AM
Modified: 3/5/2012 11:03:59 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 | | 3/5/2012 10:34:53 AM | (GMT --08:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2012-03-05\2012-03-05_001.xad) | | Instrument | Run | | 3/5/2012 9:53:41 AM | (GMT --08:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Product Number : G2938B | | Instrument | Run | | 3/5/2012 9:53:41 AM | (GMT --08:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Name : | | Instrument | Run | | 3/5/2012 9:53:41 AM | (GMT --08:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Vendor : Agilent Technologies | | Instrument | Run | | 3/5/2012 9:53:41 AM | (GMT --08:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Serial# : DE13701086 | | Instrument | Run | | 3/5/2012 9:53:41 AM | (GMT --08:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Firmware : C.01.069 | | Instrument | Run | | 3/5/2012 9:53:41 AM | (GMT --08:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Cartridge : Electrode | | Instrument | Run | | 3/5/2012 9:53:41 AM | (GMT --08:00) Pacific Standard Time | UC Davis | D8XSMGH1 |


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