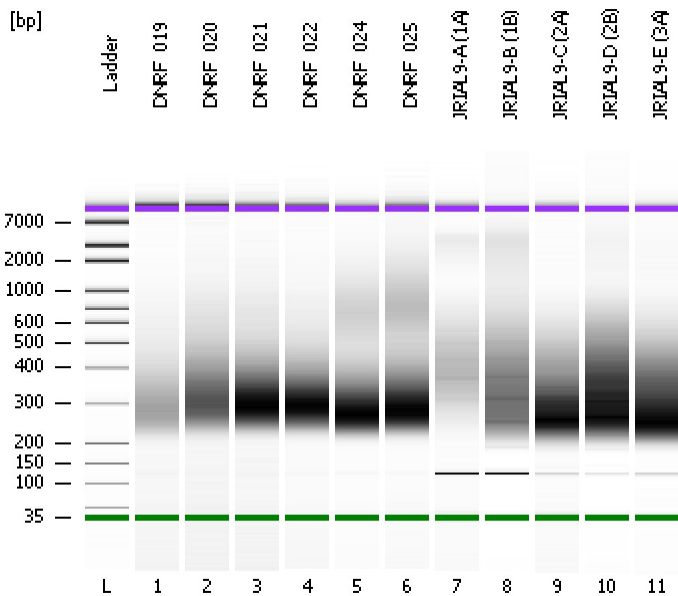


Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-02-18\2015-02-18\_002.xad

Created: 2/18/2015 2:41:31 PM  
Modified: 2/18/2015 3:22:52 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

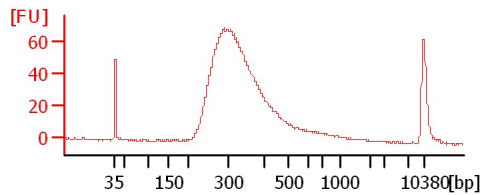
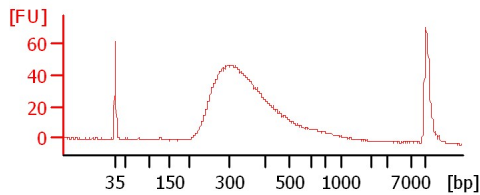
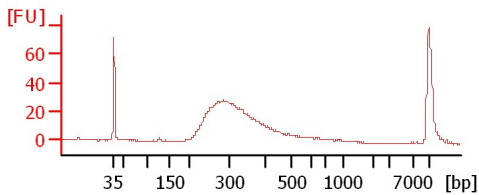
#### Chip Information:

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

DNRf\_019

DNRf\_020

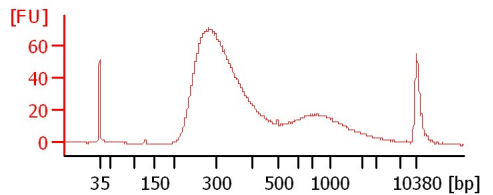
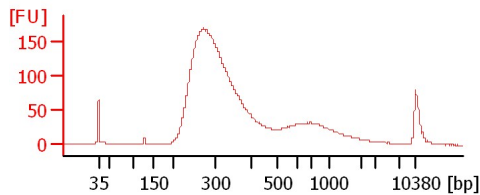
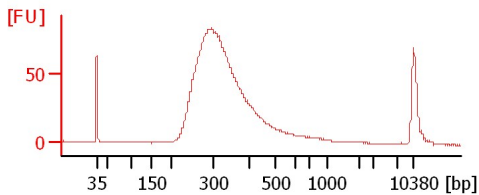
DNRf\_021



DNRf\_022

DNRf\_024

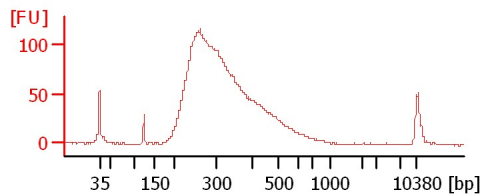
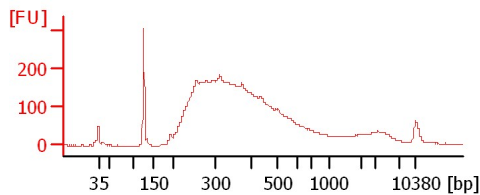
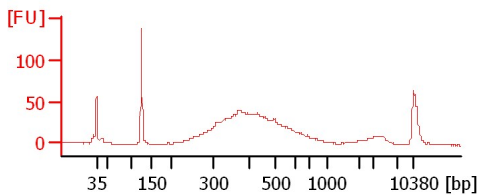
DNRf\_025



JRIAL9-A (1A)

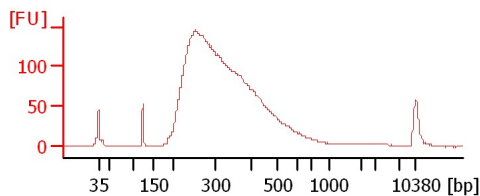
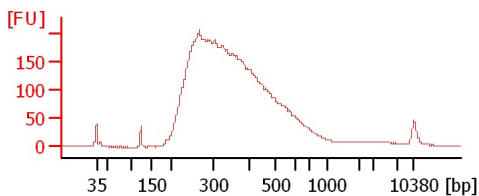
JRIAL9-B (1B)

JRIAL9-C (2A)



JRIAL9-D (2B)

JRIAL9-E (3A)



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-02-18\2015-02-18\_002.xad

Created: 2/18/2015 2:41:31 PM  
 Modified: 2/18/2015 3:22:52 PM

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

| Sample Name   | Sample Comment | Rest. Digest             | Status | Observation | Result Label | Result Color |
|---------------|----------------|--------------------------|--------|-------------|--------------|--------------|
| DNRF_019      |                | <input type="checkbox"/> | ✓      |             |              |              |
| DNRF_020      |                | <input type="checkbox"/> | ✓      |             |              |              |
| DNRF_021      |                | <input type="checkbox"/> | ✓      |             |              |              |
| DNRF_022      |                | <input type="checkbox"/> | ✓      |             |              |              |
| DNRF_024      |                | <input type="checkbox"/> | ✓      |             |              |              |
| DNRF_025      |                | <input type="checkbox"/> | ✓      |             |              |              |
| JRIAL9-A (1A) |                | <input type="checkbox"/> | ✓      |             |              |              |
| JRIAL9-B (1B) |                | <input type="checkbox"/> | ✓      |             |              |              |
| JRIAL9-C (2A) |                | <input type="checkbox"/> | ✓      |             |              |              |
| JRIAL9-D (2B) |                | <input type="checkbox"/> | ✓      |             |              |              |
| JRIAL9-E (3A) |                | <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\2015-02-18\2015-02-18\_002.xad

Created: 2/18/2015 2:41:31 PM  
Modified: 2/18/2015 3:22:52 PM

**Electrophoresis Assay Details**

**General Analysis Settings**

Number of Available Sample and Ladder Wells (Max.) : 12  
Minimum Visible Range [s] : 32  
Maximum Visible Range [s] : 138  
Start Analysis Time Range [s] : 33  
End Analysis Time Range [s] : 137.5  
Ladder Concentration [pg/μl] : 1950  
Uses Standard Area for Ladder Fragments  
Lower Marker Concentration [pg/μl] : 125  
Upper Marker Concentration [pg/μl] : 75  
Used Upper Marker for Quantitation  
Standard Curve Fit is Point to Point  
Show Data Aligned to Lower and Upper Marker

**Integrator Settings**

Integration Start Time [s] : 33.05  
Integration End Time [s] : 137  
Slope Threshold : 0.8  
Height Threshold [FU] : 5  
Area Threshold : 0.1  
Width Threshold [s] : 0.6  
Baseline Plateau [s] : 0.5

**Filter Settings**

Filter Width [s] : 0.5  
Polynomial Order : 4

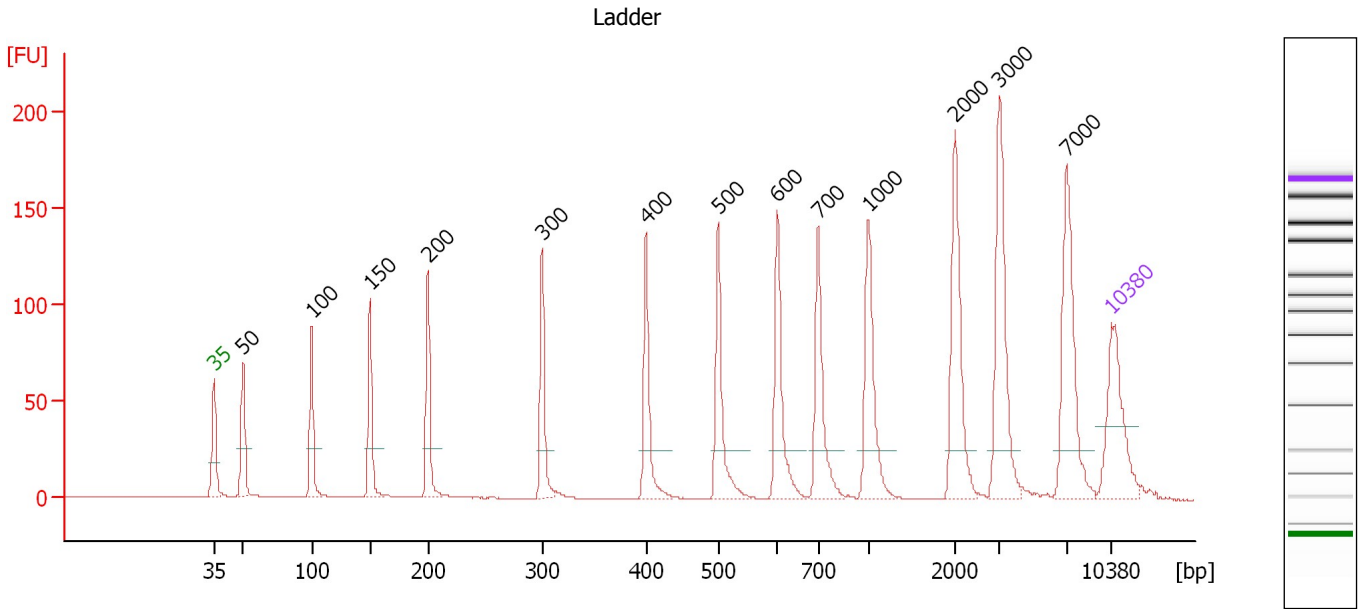
**Ladder**

| Ladder Peak | Size  | Area |
|-------------|-------|------|
| 1           | 35    | 160  |
| 2           | 50    | 210  |
| 3           | 100   | 208  |
| 4           | 150   | 221  |
| 5           | 200   | 242  |
| 6           | 300   | 270  |
| 7           | 400   | 305  |
| 8           | 500   | 306  |
| 9           | 600   | 336  |
| 10          | 700   | 321  |
| 11          | 1000  | 366  |
| 12          | 2000  | 413  |
| 13          | 3000  | 411  |
| 14          | 7000  | 400  |
| 15          | 10380 | 214  |

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-02-18\2015-02-18\_002.xad

Created: 2/18/2015 2:41:31 PM  
 Modified: 2/18/2015 3:22:52 PM

**Electropherogram Summary**



**Overall Results for Ladder**

Noise: 0.2

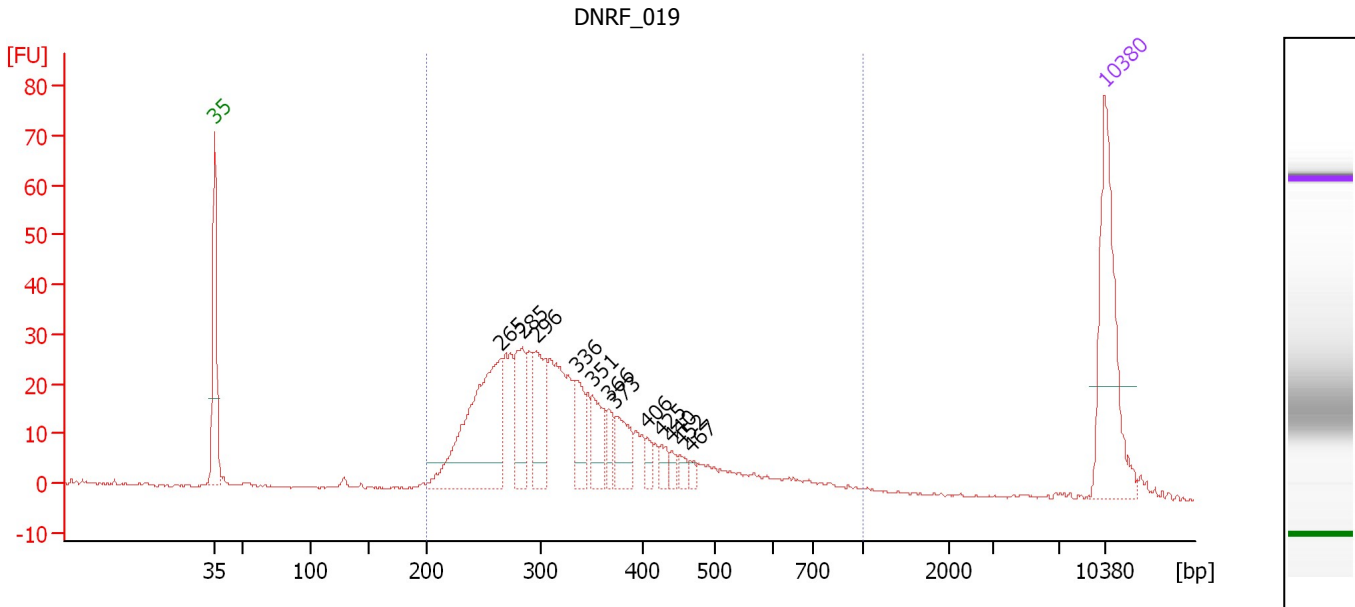
**Peak table for Ladder**

| 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  | 45.25                      |
| 3    | 100       | 150.00        | 2,272.7           | Ladder Peak  | 50.61                      |
| 4    | 150       | 150.00        | 1,515.2           | Ladder Peak  | 55.14                      |
| 5    | 200       | 150.00        | 1,136.4           | Ladder Peak  | 59.68                      |
| 6    | 300       | 150.00        | 757.6             | Ladder Peak  | 68.58                      |
| 7    | 400       | 150.00        | 568.2             | Ladder Peak  | 76.69                      |
| 8    | 500       | 150.00        | 454.5             | Ladder Peak  | 82.30                      |
| 9    | 600       | 150.00        | 378.8             | Ladder Peak  | 86.92                      |
| 10   | 700       | 150.00        | 324.7             | Ladder Peak  | 90.12                      |
| 11   | 1,000     | 150.00        | 227.3             | Ladder Peak  | 94.03                      |
| 12   | 2,000     | 150.00        | 113.6             | Ladder Peak  | 100.81                     |
| 13   | 3,000     | 150.00        | 75.8              | Ladder Peak  | 104.27                     |
| 14   | 7,000     | 150.00        | 32.5              | Ladder Peak  | 109.46                     |
| 15   | 10,380    | 75.00         | 10.9              | Upper Marker | 113.00                     |

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-02-18\2015-02-18\_002.xad

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 Modified: 2/18/2015 3:22:52 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 1 : DNRF\_019**

Number of peaks found: 12                      Corr. Area 1: 598.2  
 Noise: 0.2

**Peak table for sample 1 : DNRF\_019**

| 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    | 265       | 160.98        | 919.8             |              | 65.48                      |
| 3    | 285       | 49.94         | 266.0             |              | 67.20                      |
| 4    | 296       | 52.86         | 270.3             |              | 68.25                      |
| 5    | 336       | 27.24         | 122.9             |              | 71.48                      |
| 6    | 351       | 30.77         | 132.7             |              | 72.74                      |
| 7    | 366       | 13.97         | 57.8              |              | 73.95                      |
| 8    | 373       | 28.36         | 115.0             |              | 74.54                      |
| 9    | 406       | 8.59          | 32.1              |              | 77.01                      |
| 10   | 425       | 9.09          | 32.4              |              | 78.10                      |
| 11   | 440       | 6.53          | 22.5              |              | 78.94                      |
| 12   | 452       | 5.97          | 20.0              |              | 79.61                      |
| 13   | 467       | 4.21          | 13.7              |              | 80.45                      |
| 14   | 10,380    | 75.00         | 10.9              | Upper Marker | 113.00                     |

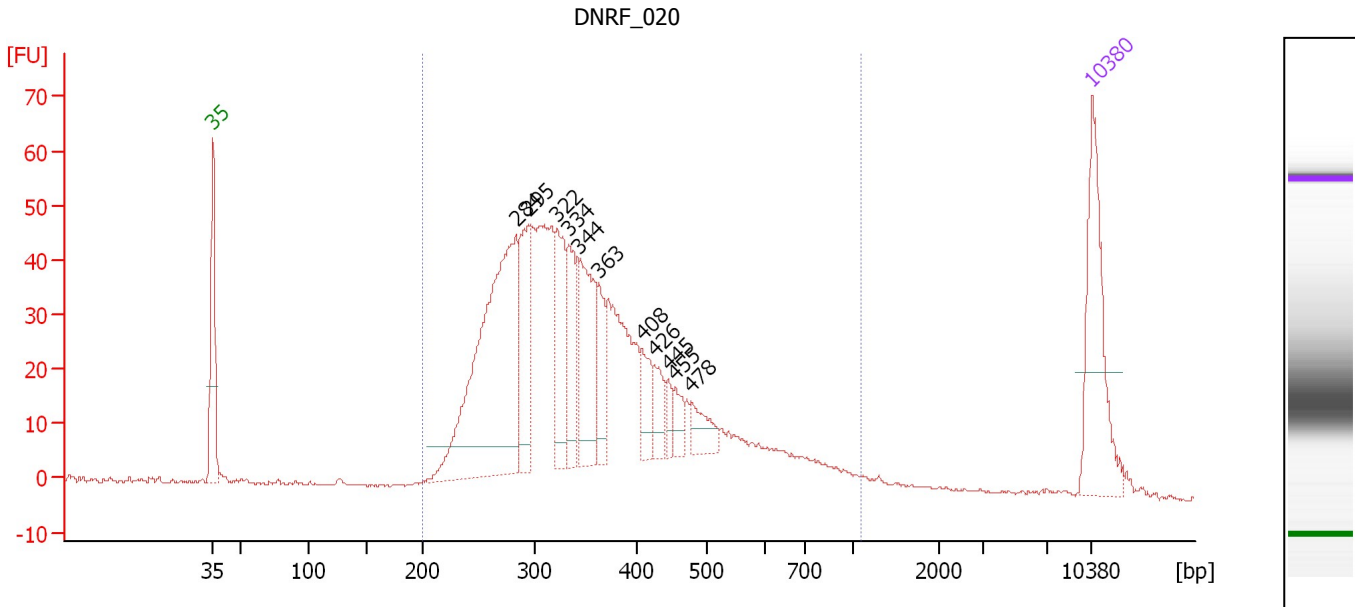
**Region table for sample 1 : DNRF\_019**

| From [bp] | Average Size [bp] | To [bp] | Corr. Area | % of Total | Size distribution in CV [%] | Conc. [pg/μl] | Molarity [pmol/l] | Color |
|-----------|-------------------|---------|------------|------------|-----------------------------|---------------|-------------------|-------|
| 200       | 347               | 1,000   | 598.2      | 96         | 32.9                        | 675.40        | 3,271.8           | Blue  |

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-02-18\2015-02-18\_002.xad

Created: 2/18/2015 2:41:31 PM  
 Modified: 2/18/2015 3:22:52 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 2 : DNRF\_020**

Number of peaks found: 11                      Corr. Area 1: 1,086.5  
 Noise: 0.2

**Peak table for sample 2 : DNRF\_020**

| 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    | 284       | 305.73        | 1,632.9           |              | 67.13                      |
| 3    | 295       | 80.57         | 413.6             |              | 68.15                      |
| 4    | 322       | 71.98         | 338.3             |              | 70.40                      |
| 5    | 334       | 56.50         | 256.4             |              | 71.33                      |
| 6    | 344       | 91.24         | 401.4             |              | 72.18                      |
| 7    | 363       | 37.39         | 156.2             |              | 73.67                      |
| 8    | 408       | 26.48         | 98.3              |              | 77.15                      |
| 9    | 426       | 22.07         | 78.6              |              | 78.13                      |
| 10   | 445       | 10.94         | 37.2              |              | 79.23                      |
| 11   | 455       | 14.76         | 49.1              |              | 79.78                      |
| 12   | 478       | 22.74         | 72.1              |              | 81.06                      |
| 13   | 10,380    | 75.00         | 10.9              | Upper Marker | 113.00                     |

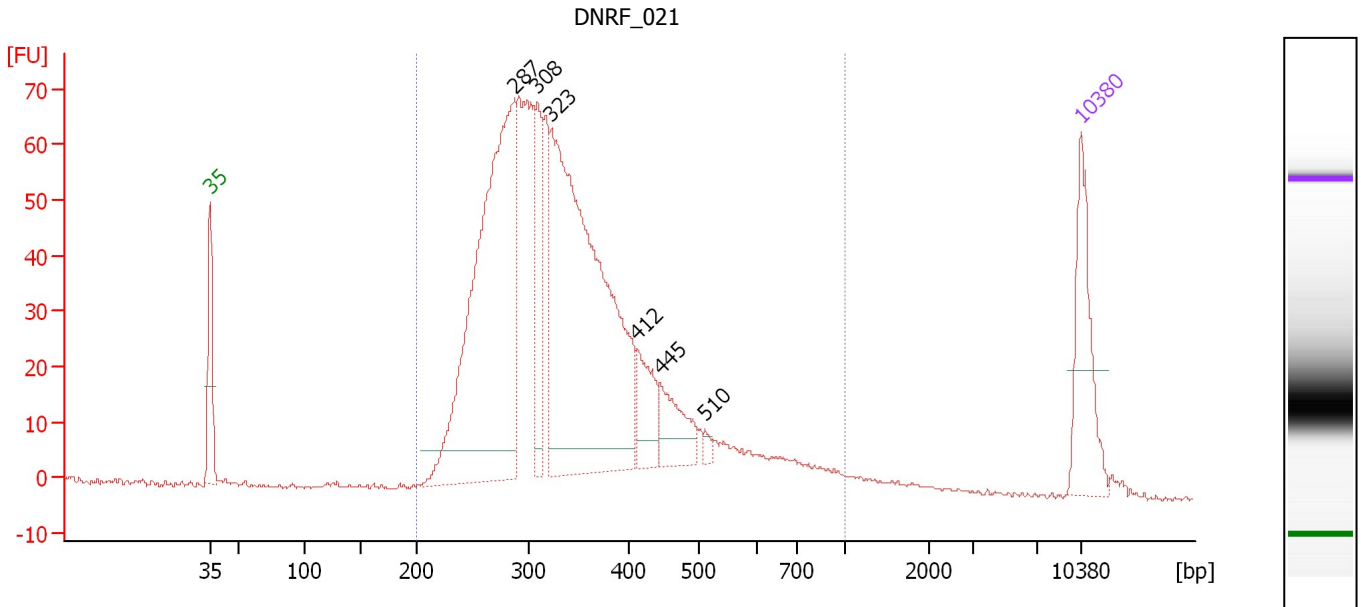
**Region table for sample 2 : DNRF\_020**

| From [bp] | Average Size [bp] | To [bp] | Corr. Area | % of Total | Size distribution in CV [%] | Conc. [pg/μl] | Molarity [pmol/l] | Color |
|-----------|-------------------|---------|------------|------------|-----------------------------|---------------|-------------------|-------|
| 200       | 374               | 1,090   | 1,086.5    | 97         | 34.2                        | 1,288.73      | 5,855.5           | Blue  |

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-02-18\2015-02-18\_002.xad

Created: 2/18/2015 2:41:31 PM  
 Modified: 2/18/2015 3:22:52 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 3 : DNRF\_021**

Number of peaks found: 6                      Corr. Area 1: 1,325.5  
 Noise: 0.3

**Peak table for sample 3 : DNRF\_021**

| 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    | 287       | 577.10        | 3,042.0           |              | 67.46                      |
| 3    | 308       | 107.65        | 528.9             |              | 69.26                      |
| 4    | 323       | 615.10        | 2,888.4           |              | 70.42                      |
| 5    | 412       | 54.15         | 199.2             |              | 77.36                      |
| 6    | 445       | 56.71         | 193.2             |              | 79.20                      |
| 7    | 510       | 6.10          | 18.1              |              | 82.76                      |
| 8    | 10,380    | 75.00         | 10.9              | Upper Marker | 113.00                     |

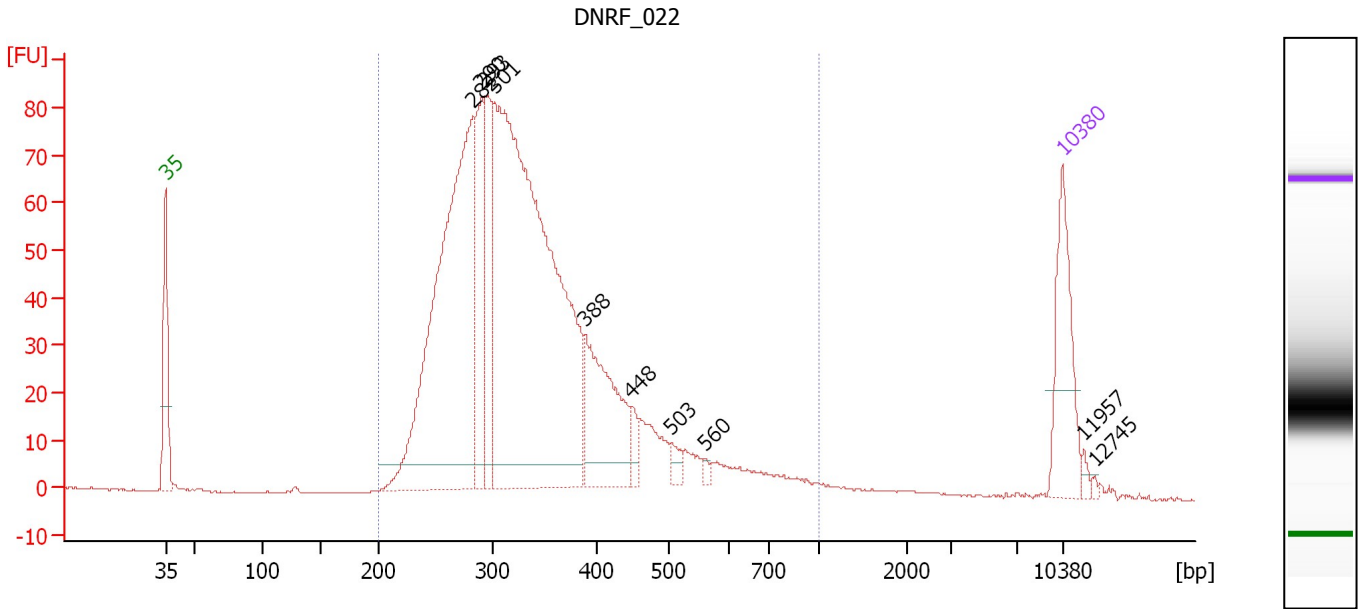
**Region table for sample 3 : DNRF\_021**

| From [bp] | Average Size [bp] | To [bp] | Corr. Area | % of Total | Size distribution in CV [%] | Conc. [pg/μl] | Molarity [pmol/l] | Color |
|-----------|-------------------|---------|------------|------------|-----------------------------|---------------|-------------------|-------|
| 200       | 352               | 1,000   | 1,325.5    | 98         | 30.6                        | 1,895.63      | 8,916.7           | Blue  |

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-02-18\2015-02-18\_002.xad

Created: 2/18/2015 2:41:31 PM  
 Modified: 2/18/2015 3:22:52 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 4 : DNRF\_022**

Number of peaks found: 10                      Corr. Area 1: 1,475.8  
 Noise: 0.1

**Peak table for sample 4 : DNRF\_022**

| 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    | 282       | 564.31        | 3,034.6           |              | 66.96                      |
| 3    | 290       | 131.12        | 686.1             |              | 67.65                      |
| 4    | 293       | 101.30        | 523.9             |              | 67.95                      |
| 5    | 301       | 880.79        | 4,435.9           |              | 68.65                      |
| 6    | 388       | 148.07        | 578.9             |              | 75.68                      |
| 7    | 448       | 16.68         | 56.4              |              | 79.37                      |
| 8    | 503       | 12.07         | 36.3              |              | 82.45                      |
| 9    | 560       | 4.17          | 11.3              |              | 85.10                      |
| 10   | 10,380    | 75.00         | 10.9              | Upper Marker | 113.00                     |
| 11   | 11,957    | 0.00          | 0.0               |              | 114.65                     |
| 12   | 12,745    | 0.00          | 0.0               |              | 115.47                     |

**Region table for sample 4 : DNRF\_022**

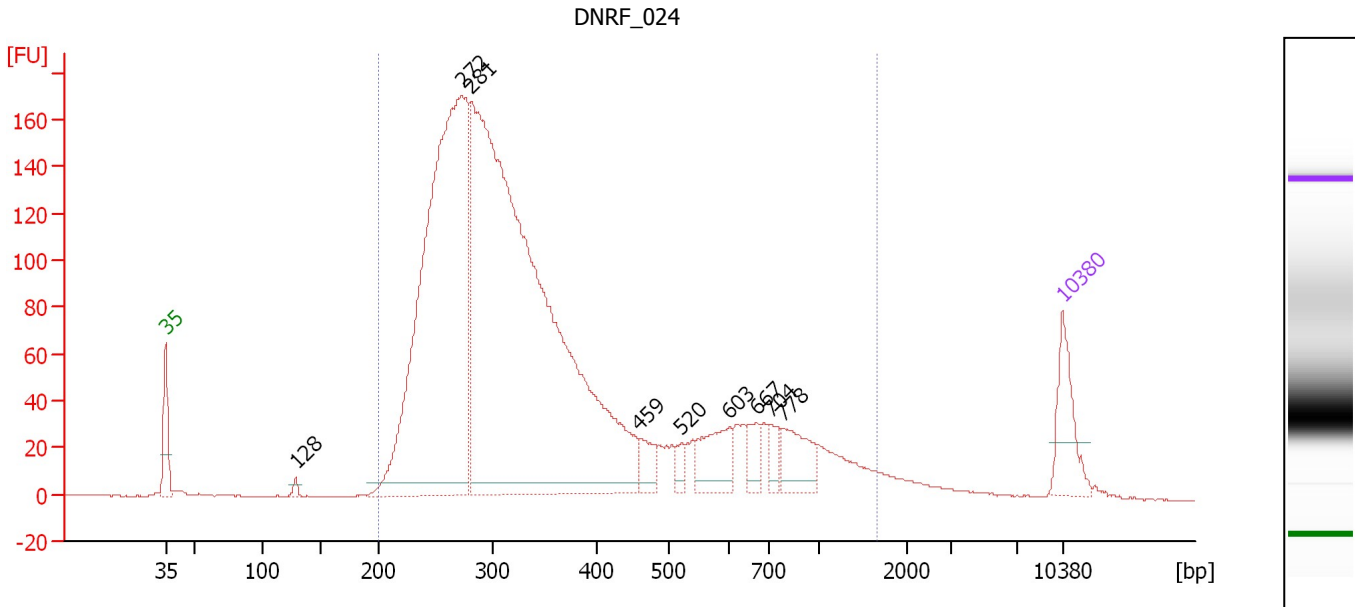
| From [bp] | Average Size [bp] | To [bp] | Corr. Area | % of Total | Size distribution in CV [%] | Conc. [pg/μl] | Molarity [pmol/l] | Color |
|-----------|-------------------|---------|------------|------------|-----------------------------|---------------|-------------------|-------|
| 200       | 344               | 1,000   | 1,475.8    | 98         | 29.4                        | 2,004.90      | 9,565.0           | Blue  |



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-02-18\2015-02-18\_002.xad

Created: 2/18/2015 2:41:31 PM  
 Modified: 2/18/2015 3:22:52 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 5 : DNRF\_024**

Number of peaks found: 9                      Corr. Area 1: 3,314.2  
 Noise: 0.2

**Peak table for sample 5 : DNRF\_024**

| 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    | 128       | 10.33         | 122.4             |              | 53.14                      |
| 3    | 272       | 1,383.63      | 7,694.2           |              | 66.13                      |
| 4    | 281       | 2,188.32      | 11,805.8          |              | 66.87                      |
| 5    | 459       | 44.97         | 148.5             |              | 80.00                      |
| 6    | 520       | 19.28         | 56.1              |              | 83.24                      |
| 7    | 603       | 86.42         | 217.1             |              | 87.02                      |
| 8    | 667       | 36.56         | 83.0              |              | 89.08                      |
| 9    | 704       | 29.50         | 63.5              |              | 90.18                      |
| 10   | 778       | 77.13         | 150.2             |              | 91.14                      |
| 11   | 10,380    | 75.00         | 10.9              | Upper Marker | 113.00                     |

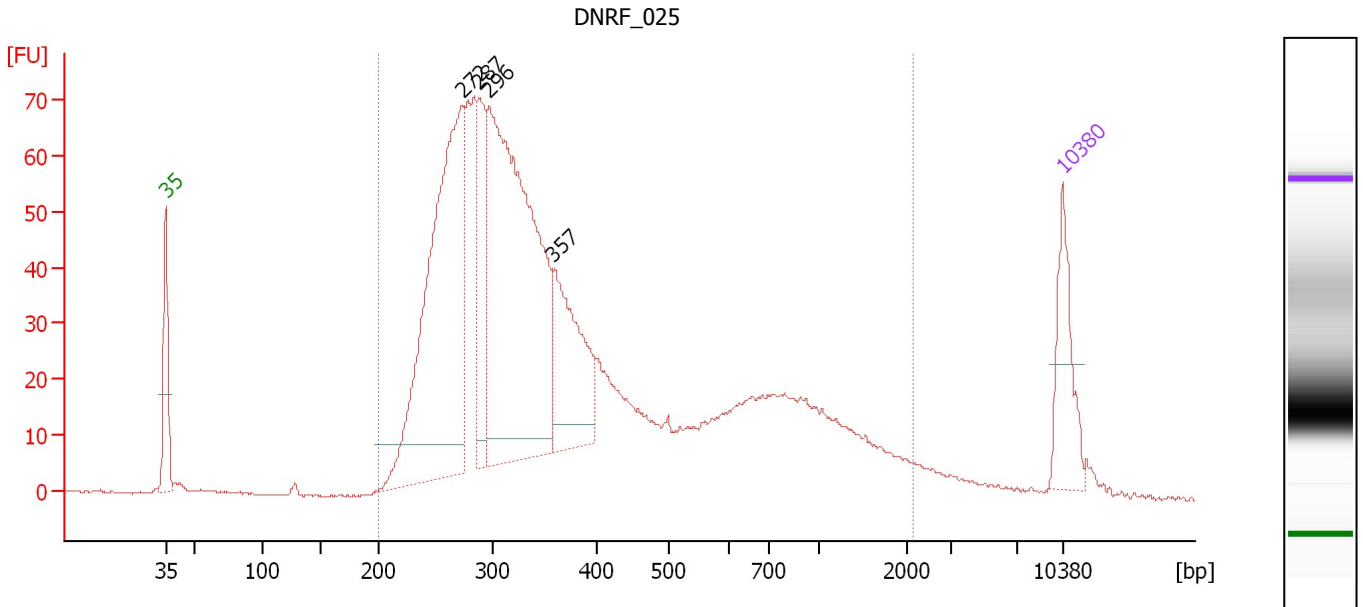
**Region table for sample 5 : DNRF\_024**

| From [bp] | Average Size [bp] | To [bp] | Corr. Area | % of Total | Size distribution in CV [%] | Conc. [pg/μl] | Molarity [pmol/l] | Color |
|-----------|-------------------|---------|------------|------------|-----------------------------|---------------|-------------------|-------|
| 200       | 394               | 1,658   | 3,314.2    | 97         | 57.0                        | 3,966.69      | 18,990.9          | Blue  |

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-02-18\2015-02-18\_002.xad

Created: 2/18/2015 2:41:31 PM  
 Modified: 2/18/2015 3:22:52 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 6 : DNRF\_025**

Number of peaks found: 4                      Corr. Area 1: 1,549.7  
 Noise: 0.1

**Peak table for sample 6 : DNRF\_025**

| 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    | 272       | 648.65        | 3,609.5           |              | 66.11                      |
| 3    | 287       | 131.05        | 691.4             |              | 67.44                      |
| 4    | 296       | 750.00        | 3,837.6           |              | 68.23                      |
| 5    | 357       | 198.47        | 841.6             |              | 73.23                      |
| 6    | 10,380    | 75.00         | 10.9              | Upper Marker | 113.00                     |

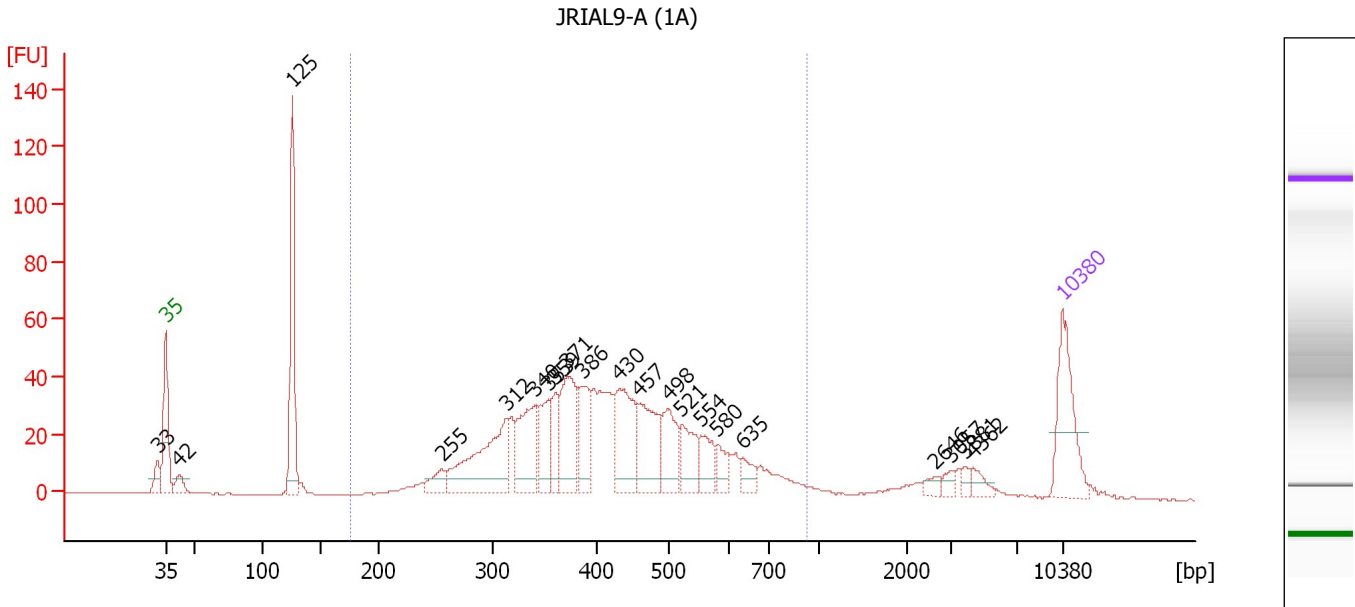
**Region table for sample 6 : DNRF\_025**

| From [bp] | Average Size [bp] | To [bp] | Corr. Area | % of Total | Size distribution in CV [%] | Conc. [pg/μl] | Molarity [pmol/l] | Color |
|-----------|-------------------|---------|------------|------------|-----------------------------|---------------|-------------------|-------|
| 200       | 461               | 2,137   | 1,549.7    | 97         | 70.6                        | 2,813.09      | 12,657.6          | Blue  |

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-02-18\2015-02-18\_002.xad

Created: 2/18/2015 2:41:31 PM  
 Modified: 2/18/2015 3:22:52 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 7 : JRIAL9-A (1A)**

Number of peaks found: 21                      Corr. Area 1: 904.7  
 Noise: 0.2

**Peak table for sample 7 : JRIAL9-A (1A)**


| Peak | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations | Aligned Migration Time [s] |
|------|-----------|---------------|-------------------|--------------|----------------------------|
| 1    | 33        | 0.00          | 0.0               |              | 42.38                      |
| 2    | 35        | 125.00        | 5,411.3           | Lower Marker | 43.00                      |
| 3    | 42        | 22.60         | 812.2             |              | 44.07                      |
| 4    | 125       | 189.11        | 2,285.7           |              | 52.91                      |
| 5    | 255       | 27.92         | 166.0             |              | 64.56                      |
| 6    | 312       | 156.20        | 758.2             |              | 69.56                      |
| 7    | 340       | 99.74         | 444.2             |              | 71.84                      |
| 8    | 353       | 60.99         | 261.5             |              | 72.91                      |
| 9    | 359       | 41.21         | 173.7             |              | 73.40                      |
| 10   | 371       | 103.45        | 422.5             |              | 74.34                      |
| 11   | 386       | 57.03         | 223.6             |              | 75.59                      |
| 12   | 430       | 103.04        | 362.7             |              | 78.40                      |
| 13   | 457       | 88.32         | 293.0             |              | 79.88                      |
| 14   | 498       | 60.87         | 185.2             |              | 82.20                      |
| 15   | 521       | 49.05         | 142.7             |              | 83.27                      |
| 16   | 554       | 36.79         | 100.7             |              | 84.79                      |
| 17   | 580       | 23.83         | 62.3              |              | 85.99                      |
| 18   | 635       | 19.78         | 47.2              |              | 88.04                      |
| 19   | 2,646     | 8.41          | 4.8               |              | 103.04                     |
| 20   | 3,057     | 7.40          | 3.7               |              | 104.34                     |
| 21   | 3,881     | 6.28          | 2.5               |              | 105.41                     |
| 22   | 4,362     | 11.53         | 4.0               |              | 106.04                     |
| 23   | 10,380    | 75.00         | 10.9              | Upper Marker | 113.00                     |

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-02-18\2015-02-18\_002.xad

Created: 2/18/2015 2:41:31 PM  
Modified: 2/18/2015 3:22:52 PM

**Electropherogram Summary Continued ...**

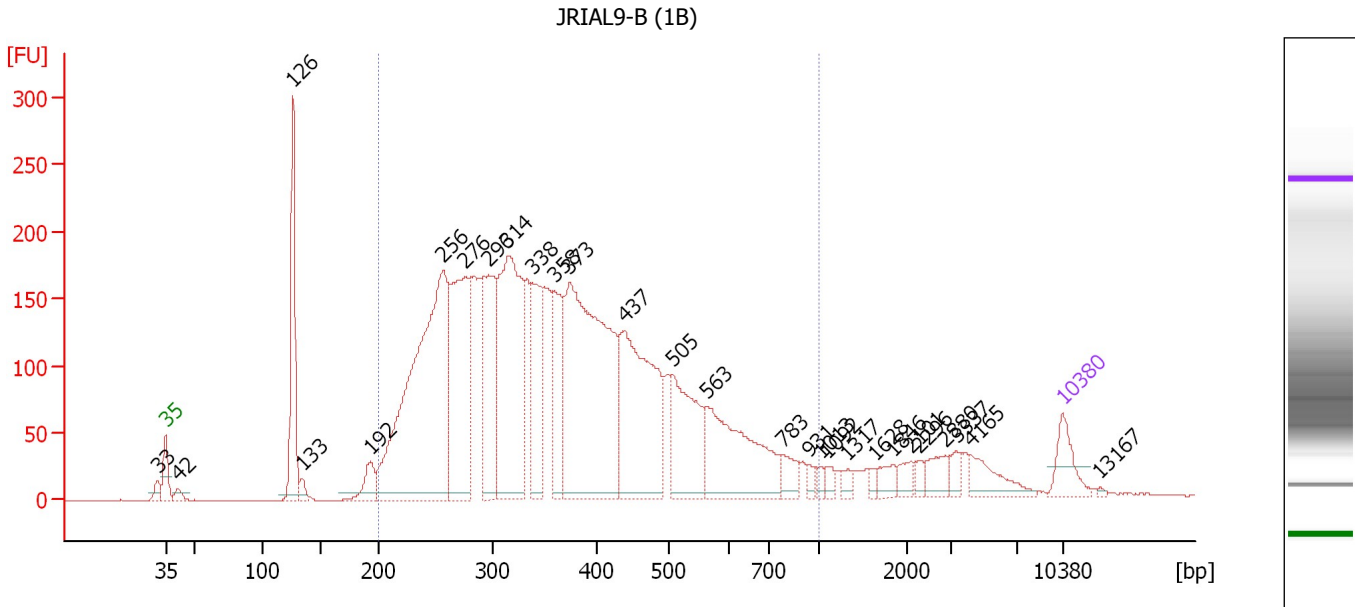
... Region table for sample 7 : JRIAL9-A (1A)

| From [bp] | Average Size [bp] | To [bp] | Corr. Area | % of Total | Size distribution in CV [%] | Conc. [pg/ $\mu$ l] | Molarity [pmol/l] | Color                                                                               |
|-----------|-------------------|---------|------------|------------|-----------------------------|---------------------|-------------------|-------------------------------------------------------------------------------------|
| 176       | 429               | 928     | 904.7      | 81         | 27.6                        | 1,214.49            | 4,740.3           |  |

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-02-18\2015-02-18\_002.xad

Created: 2/18/2015 2:41:31 PM  
 Modified: 2/18/2015 3:22:52 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 8 : JRIAL9-B (1B)**

Number of peaks found: 28                      Corr. Area 1: 5,085.7  
 Noise: 0.2

**Peak table for sample 8 : JRIAL9-B (1B)**

| Peak | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations | Aligned Migration Time [s] |
|------|-----------|---------------|-------------------|--------------|----------------------------|
| 1    | 33        | 0.00          | 0.0               |              | 42.37                      |
| 2    | 35        | 125.00        | 5,411.3           | Lower Marker | 43.00                      |
| 3    | 42        | 29.25         | 1,065.5           |              | 43.99                      |
| 4    | 126       | 425.89        | 5,127.5           |              | 52.96                      |
| 5    | 133       | 28.51         | 324.1             |              | 53.63                      |
| 6    | 192       | 82.84         | 653.3             |              | 58.96                      |
| 7    | 256       | 1,371.95      | 8,121.3           |              | 64.66                      |
| 8    | 276       | 651.54        | 3,581.9           |              | 66.41                      |
| 9    | 296       | 413.95        | 2,120.6           |              | 68.20                      |
| 10   | 314       | 801.11        | 3,870.7           |              | 69.68                      |
| 11   | 338       | 286.97        | 1,286.7           |              | 71.65                      |
| 12   | 358       | 222.71        | 941.6             |              | 73.31                      |
| 13   | 373       | 1,108.45      | 4,505.6           |              | 74.48                      |
| 14   | 437       | 636.67        | 2,205.9           |              | 78.78                      |
| 15   | 505       | 330.92        | 992.2             |              | 82.55                      |
| 16   | 563       | 418.11        | 1,125.9           |              | 85.20                      |
| 17   | 783       | 58.44         | 113.1             |              | 91.21                      |
| 18   | 931       | 18.41         | 30.0              |              | 93.13                      |
| 19   | 1,013     | 16.83         | 25.2              |              | 94.12                      |
| 20   | 1,092     | 20.77         | 28.8              |              | 94.66                      |
| 21   | 1,317     | 19.41         | 22.3              |              | 96.18                      |
| 22   | 1,628     | 13.21         | 12.3              |              | 98.29                      |
| 23   | 1,846     | 35.20         | 28.9              |              | 99.77                      |
| 24   | 2,101     | 30.96         | 22.3              |              | 101.16                     |
| 25   | 2,296     | 18.56         | 12.3              |              | 101.83                     |

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-02-18\2015-02-18\_002.xad


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### Electropherogram Summary Continued ...

#### ... Peak table for sample 8 : JRIAL9-B (1B)

| Peak | Size [bp] | Conc. [pg/ $\mu$ l] | Molarity [pmol/l] | Observations | Aligned Migration Time [s] |
|------|-----------|---------------------|-------------------|--------------|----------------------------|
| 26   | 2,880     | 51.07               | 26.9              |              | 103.85                     |
| 27   | 3,337     | 27.69               | 12.6              |              | 104.70                     |
| 28   | 4,165     | 80.72               | 29.4              |              | 105.78                     |
| 29   | 10,380    | 75.00               | 10.9              | Upper Marker | 113.00                     |
| 30   | 13,167    | 0.00                | 0.0               |              | 115.91                     |

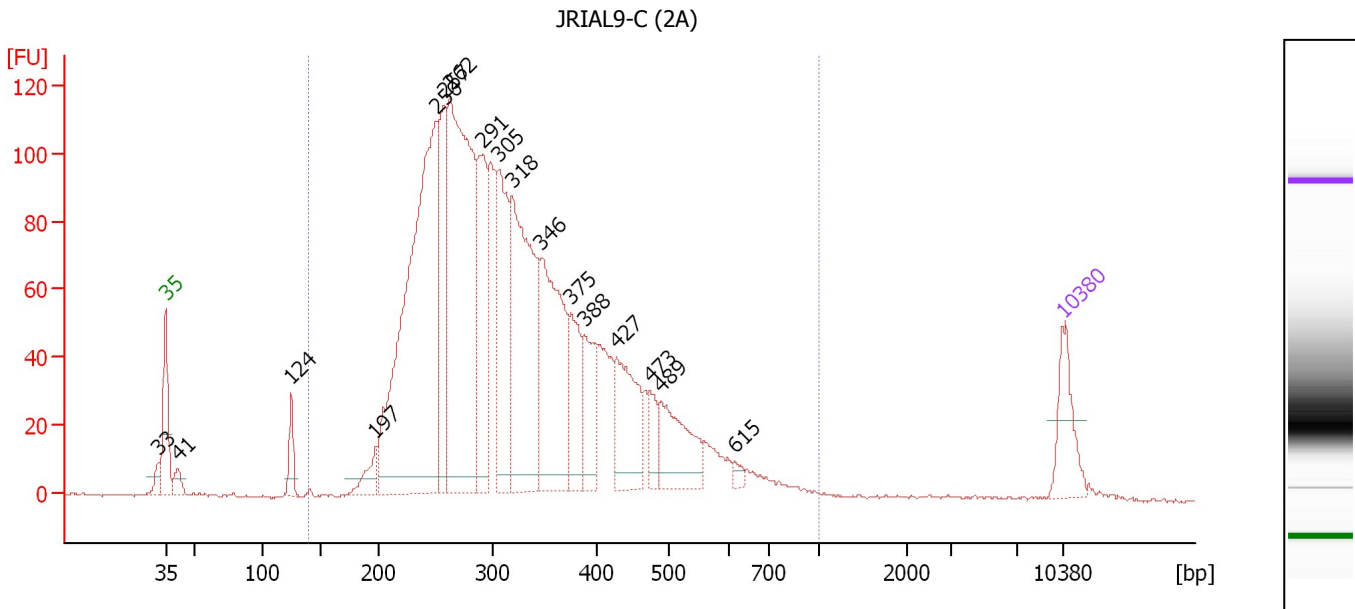
#### Region table for sample 8 : JRIAL9-B (1B)

| From [bp] | Average Size [bp] | To [bp] | Corr. Area | % of Total | Size distribution in CV [%] | Conc. [pg/ $\mu$ l] | Molarity [pmol/l] | Color                                                                               |
|-----------|-------------------|---------|------------|------------|-----------------------------|---------------------|-------------------|-------------------------------------------------------------------------------------|
| 200       | 383               | 1,000   | 5,085.7    | 88         | 35.2                        | 7,057.67            | 32,164.6          |  |

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-02-18\2015-02-18\_002.xad

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**Electropherogram Summary Continued ...**



**Overall Results for sample 9 : JRIAL9-C (2A)**

Number of peaks found: 17      Corr. Area 1: 2,430.5  
 Noise: 0.5

**Peak table for sample 9 : JRIAL9-C (2A)**

| Peak | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations | Aligned Migration Time [s] |
|------|-----------|---------------|-------------------|--------------|----------------------------|
| 1    | 33        | 0.00          | 0.0               |              | 42.42                      |
| 2    | 35        | 125.00        | 5,411.3           | Lower Marker | 43.00                      |
| 3    | 41        | 31.59         | 1,158.6           |              | 43.94                      |
| 4    | 124       | 55.35         | 675.1             |              | 52.81                      |
| 5    | 197       | 52.67         | 405.8             |              | 59.38                      |
| 6    | 250       | 1,010.22      | 6,118.4           |              | 64.14                      |
| 7    | 257       | 252.29        | 1,488.9           |              | 64.73                      |
| 8    | 262       | 818.15        | 4,726.0           |              | 65.22                      |
| 9    | 291       | 243.85        | 1,271.4           |              | 67.74                      |
| 10   | 305       | 264.50        | 1,315.4           |              | 68.96                      |
| 11   | 318       | 492.02        | 2,344.5           |              | 70.04                      |
| 12   | 346       | 380.18        | 1,663.6           |              | 72.33                      |
| 13   | 375       | 133.25        | 539.0             |              | 74.63                      |
| 14   | 388       | 120.68        | 471.4             |              | 75.71                      |
| 15   | 427       | 171.11        | 606.7             |              | 78.22                      |
| 16   | 473       | 43.77         | 140.2             |              | 80.79                      |
| 17   | 489       | 147.21        | 456.1             |              | 81.69                      |
| 18   | 615       | 12.47         | 30.7              |              | 87.40                      |
| 19   | 10,380    | 75.00         | 10.9              | Upper Marker | 113.00                     |

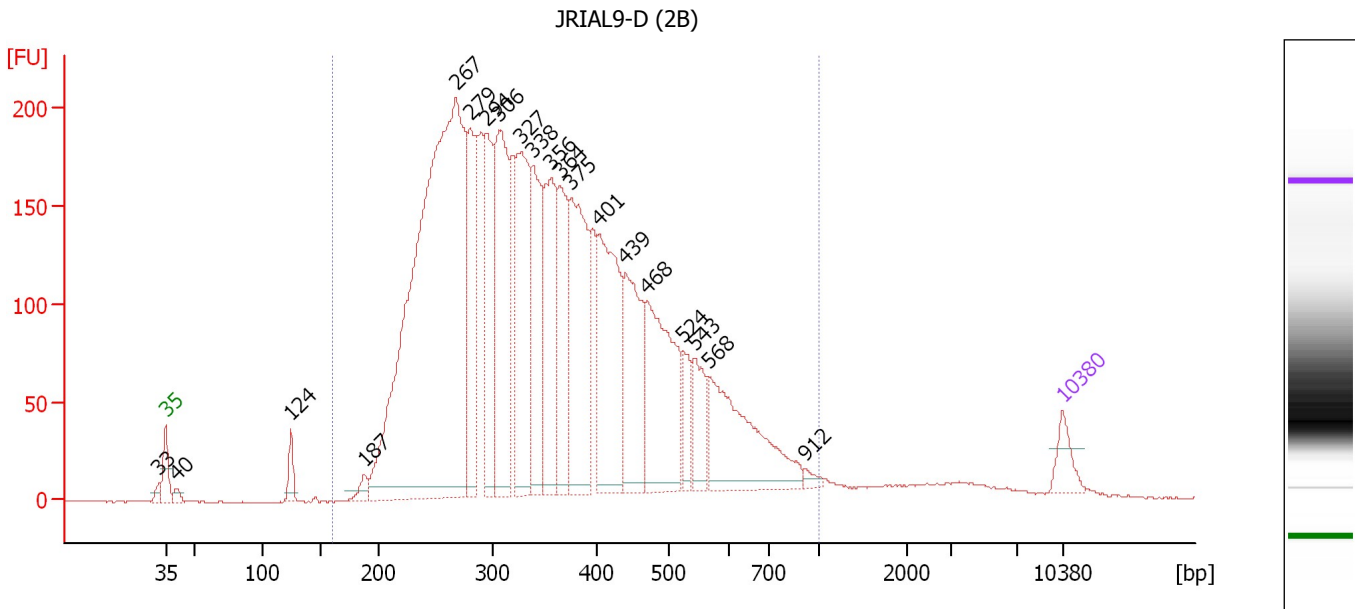
**Region table for sample 9 : JRIAL9-C (2A)**

| From [bp] | Average Size [bp] | To [bp] | Corr. Area | % of Total | Size distribution in CV [%] | Conc. [pg/μl] | Molarity [pmol/l] | Color |
|-----------|-------------------|---------|------------|------------|-----------------------------|---------------|-------------------|-------|
| 138       | 333               | 1,000   | 2,430.5    | 97         | 31.2                        | 4,763.99      | 24,063.7          | Blue  |

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-02-18\2015-02-18\_002.xad

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**Electropherogram Summary Continued ...**



**Overall Results for sample 10 : JRIAL9-D (2B)**

Number of peaks found: 20                      Corr. Area 1: 5,365.5  
 Noise: 0.4

**Peak table for sample 10 : JRIAL9-D (2B)**

| Peak | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations | Aligned Migration Time [s] |
|------|-----------|---------------|-------------------|--------------|----------------------------|
| 1    | 33        | 0.00          | 0.0               |              | 42.46                      |
| 2    | 35        | 125.00        | 5,411.3           | Lower Marker | 43.00                      |
| 3    | 40        | 36.55         | 1,370.5           |              | 43.81                      |
| 4    | 124       | 91.45         | 1,120.0           |              | 52.76                      |
| 5    | 187       | 49.61         | 401.4             |              | 58.52                      |
| 6    | 267       | 3,849.33      | 21,815.0          |              | 65.67                      |
| 7    | 279       | 606.35        | 3,287.2           |              | 66.75                      |
| 8    | 294       | 543.36        | 2,798.9           |              | 68.06                      |
| 9    | 306       | 830.49        | 4,115.2           |              | 69.05                      |
| 10   | 327       | 725.15        | 3,361.5           |              | 70.76                      |
| 11   | 338       | 511.88        | 2,295.0           |              | 71.66                      |
| 12   | 356       | 599.35        | 2,553.1           |              | 73.10                      |
| 13   | 364       | 457.90        | 1,906.0           |              | 73.77                      |
| 14   | 375       | 748.66        | 3,024.0           |              | 74.67                      |
| 15   | 401       | 735.70        | 2,780.5           |              | 76.74                      |
| 16   | 439       | 538.40        | 1,856.7           |              | 78.90                      |
| 17   | 468       | 684.20        | 2,214.2           |              | 80.52                      |
| 18   | 524       | 135.15        | 391.0             |              | 83.40                      |
| 19   | 543       | 187.96        | 524.3             |              | 84.30                      |
| 20   | 568       | 601.22        | 1,605.1           |              | 85.42                      |
| 21   | 912       | 22.44         | 37.3              |              | 92.89                      |
| 22   | 10,380    | 75.00         | 10.9              | Upper Marker | 113.00                     |




Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-02-18\2015-02-18\_002.xad

Created: 2/18/2015 2:41:31 PM  
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**Electropherogram Summary Continued ...**

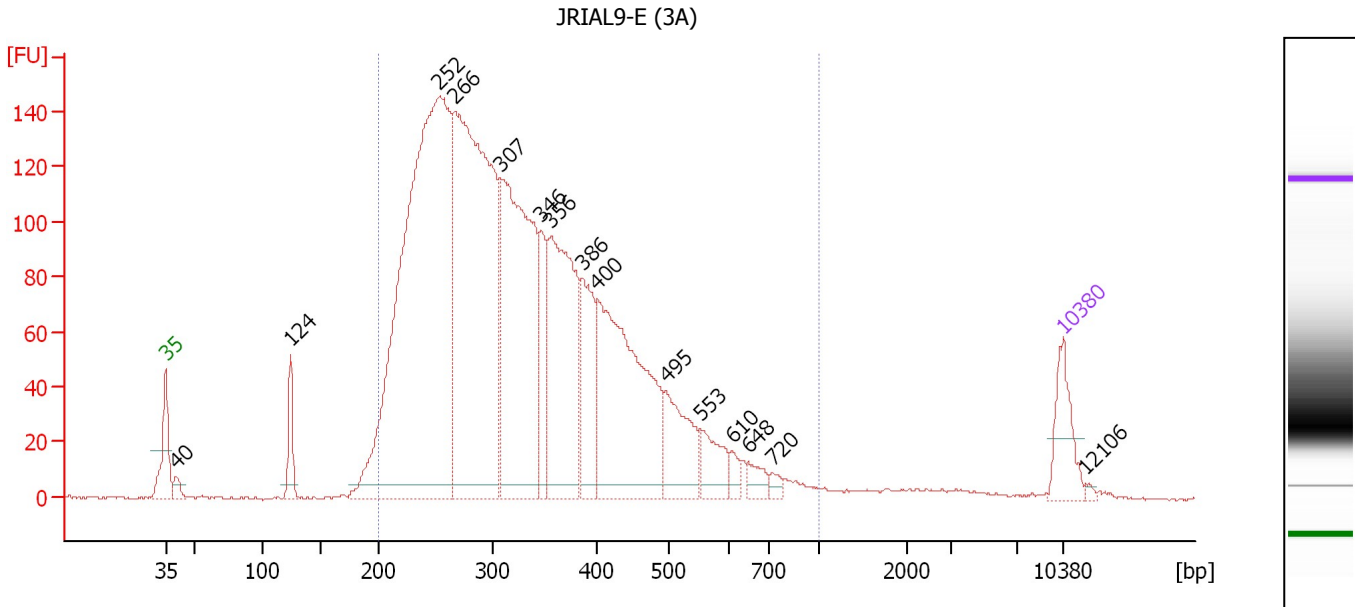
... Region table for sample 10 : JRIAL9-D (2B)

| From [bp] | Average Size [bp] | To [bp] | Corr. Area | % of Total | Size distribution in CV [%] | Conc. [pg/ $\mu$ l] | Molarity [pmol/l] | Color                                                                               |
|-----------|-------------------|---------|------------|------------|-----------------------------|---------------------|-------------------|-------------------------------------------------------------------------------------|
| 159       | 368               | 1,000   | 5,365.5    | 97         | 34.0                        | 13,212.64           | 62,066.1          |  |

Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-02-18\2015-02-18\_002.xad

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 Modified: 2/18/2015 3:22:52 PM

**Electropherogram Summary Continued ...**



**Overall Results for sample 11 : JRIAL9-E (3A)**

Number of peaks found: 15      Corr. Area 1: 3,331.2  
 Noise: 0.4

**Peak table for sample 11 : JRIAL9-E (3A)**

| 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    | 40        | 25.52         | 956.6             |              | 43.81                      |
| 3    | 124       | 80.27         | 984.2             |              | 52.75                      |
| 4    | 252       | 1,733.18      | 10,422.9          |              | 64.30                      |
| 5    | 266       | 1,248.93      | 7,123.6           |              | 65.52                      |
| 6    | 307       | 770.19        | 3,803.5           |              | 69.13                      |
| 7    | 346       | 132.02        | 577.6             |              | 72.34                      |
| 8    | 356       | 478.88        | 2,039.4           |              | 73.10                      |
| 9    | 386       | 191.85        | 753.4             |              | 75.54                      |
| 10   | 400       | 559.80        | 2,118.2           |              | 76.71                      |
| 11   | 495       | 158.23        | 484.1             |              | 82.04                      |
| 12   | 553       | 78.35         | 214.7             |              | 84.75                      |
| 13   | 610       | 22.05         | 54.8              |              | 87.23                      |
| 14   | 648       | 30.65         | 71.7              |              | 88.45                      |
| 15   | 720       | 15.05         | 31.7              |              | 90.39                      |
| 16   | 10,380    | 75.00         | 10.9              | Upper Marker | 113.00                     |
| 17   | 12,106    | 0.00          | 0.0               |              | 114.81                     |

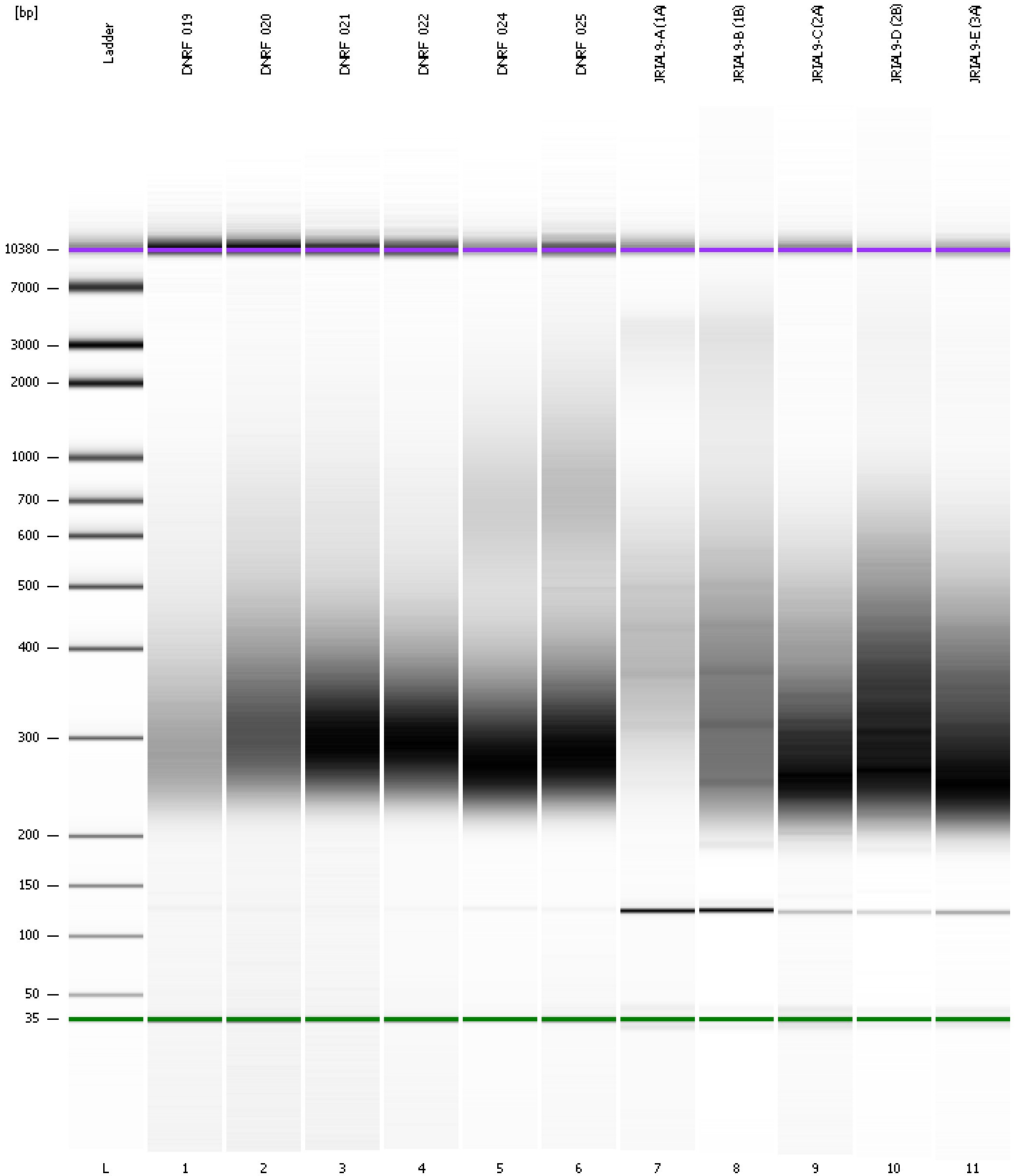
**Region table for sample 11 : JRIAL9-E (3A)**

| From [bp] | Average Size [bp] | To [bp] | Corr. Area | % of Total | Size distribution in CV [%] | Conc. [pg/μl] | Molarity [pmol/l] | Color |
|-----------|-------------------|---------|------------|------------|-----------------------------|---------------|-------------------|-------|
| 200       | 339               | 1,000   | 3,331.2    | 96         | 31.9                        | 5,327.03      | 26,565.4          | Blue  |

Assay Class: High Sensitivity DNA Assay  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-02-18\2015-02-18\_002.xad

Created: 2/18/2015 2:41:31 PM  
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**Gel Image**



Assay Class: High Sensitivity DNA Assay  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-02-18\2015-02-18\_002.xad

Created: 2/18/2015 2:41:31 PM  
 Modified: 2/18/2015 3:22:52 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      |              | 2/18/2015 3:22:49 PM | (GMT --08:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2015-02-18\2015-02-18_002.xad) |        | Instrument | Run      |              | 2/18/2015 2:41:37 PM | (GMT --08:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Product Number : G2938B                                                                           |        | Instrument | Run      |              | 2/18/2015 2:41:37 PM | (GMT --08:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Name :                                                                                            |        | Instrument | Run      |              | 2/18/2015 2:41:37 PM | (GMT --08:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Vendor : Agilent Technologies                                                                     |        | Instrument | Run      |              | 2/18/2015 2:41:37 PM | (GMT --08:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Serial# : DE13701086                                                                              |        | Instrument | Run      |              | 2/18/2015 2:41:37 PM | (GMT --08:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Firmware : C.01.069                                                                               |        | Instrument | Run      |              | 2/18/2015 2:41:37 PM | (GMT --08:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Cartridge : Electrode                                                                             |        | Instrument | Run      |              | 2/18/2015 2:41:37 PM | (GMT --08:00) Pacific Standard Time | UC Davis | D8XSMGH1 |