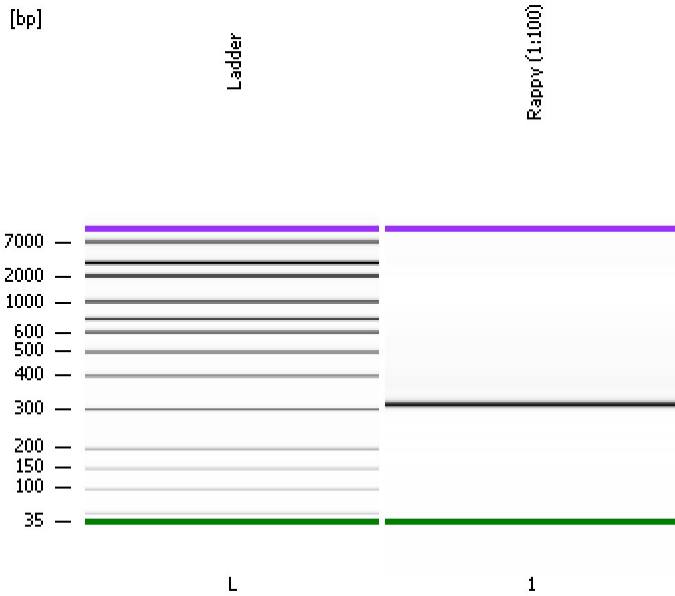


Assay Class: High Sensitivity DNA Assay
Data Path: C:\...\Bioanalyzer\2016-02-11\2016-02-11_001_Rappy_AmpliconQC.xad

Created: 2/11/2016 10:47:50 AM
Modified: 2/11/2016 5:05:46 PM

Electrophoresis File Run Summary



Instrument Information:

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

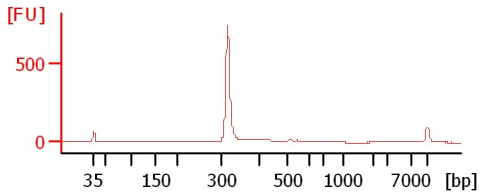
Assay Information:

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:

Rappy (1:100)



Assay Class: High Sensitivity DNA Assay
Data Path: C:\...\Bioanalyzer\2016-02-11\2016-02-11_001_Rappy_AmpliconQC.xad

Created: 2/11/2016 10:47:50 AM
Modified: 2/11/2016 5:05:46 PM

Electrophoresis File Run Summary (Chip Summary)

| Sample Name | Sample Comment | Rest. Digest | Status | Observation | Result Label | Result Color |
|---------------|----------------|--------------------------|--------|-------------|--------------|--------------|
| Rappy (1:100) | | <input type="checkbox"/> | ✓ | | | |
| Ladder | | <input type="checkbox"/> | ✓ | | | |

Chip Lot # **Reagent Kit Lot #**

Chip Comments :

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...\Bioanalyzer\2016-02-11\2016-02-11_001_Rappy_AmpliconQC.xad

Created: 2/11/2016 10:47:50 AM
Modified: 2/11/2016 5:05:46 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/ μ l] : 1950
Uses Standard Area for Ladder Fragments
Lower Marker Concentration [pg/ μ l] : 125
Upper Marker Concentration [pg/ μ l] : 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

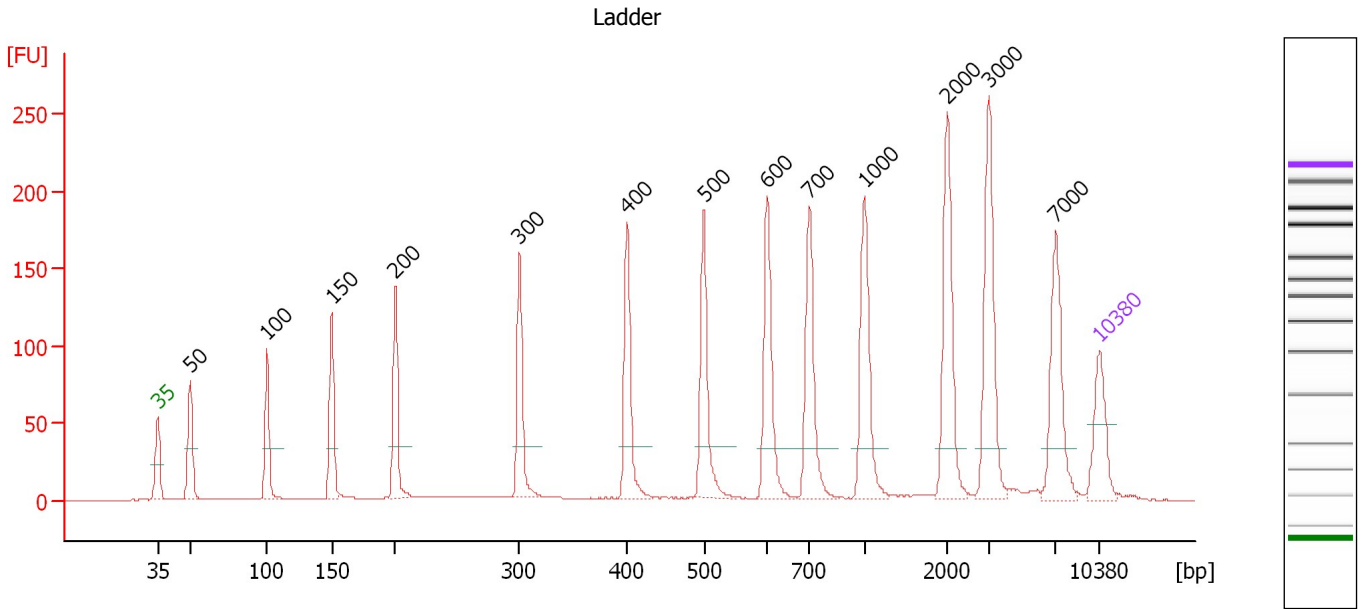
Ladder

| 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:\...\Bioanalyzer\2016-02-11\2016-02-11_001_Rappy_AmpliconQC.xad

Created: 2/11/2016 10:47:50 AM
 Modified: 2/11/2016 5:05:46 PM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.2

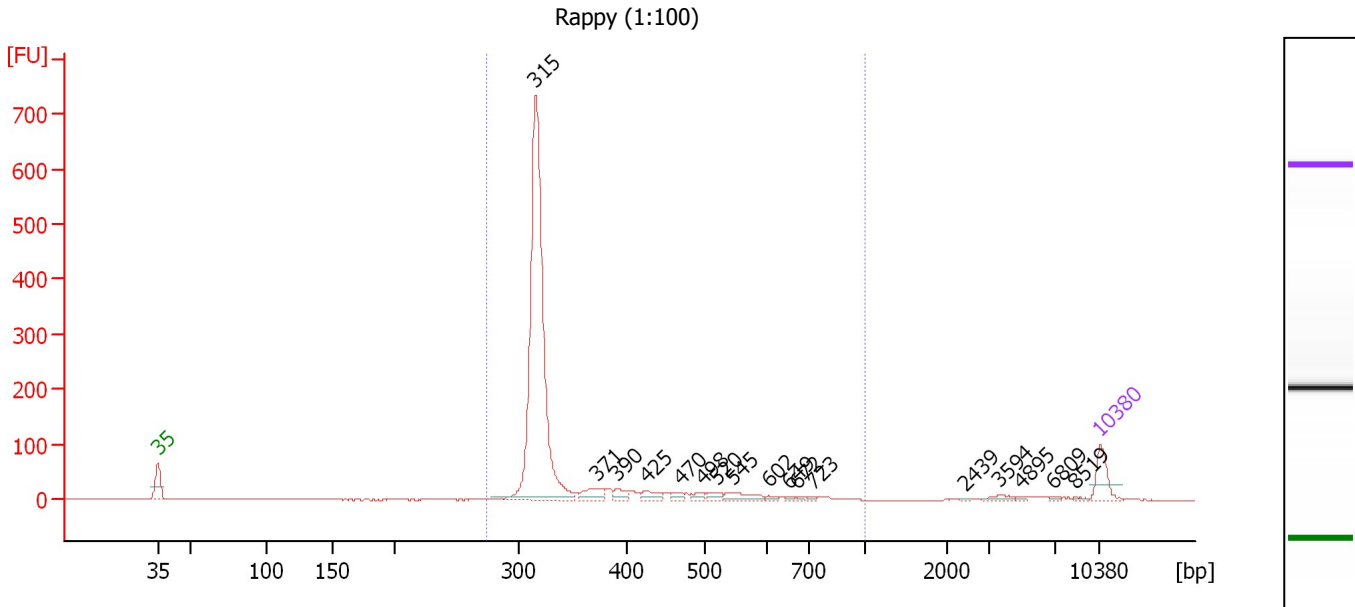
Peak table for Ladder

| 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 | 45.44 |
| 3 | 100 | 150.00 | 2,272.7 | Ladder Peak | 51.12 |
| 4 | 150 | 150.00 | 1,515.2 | Ladder Peak | 55.95 |
| 5 | 200 | 150.00 | 1,136.4 | Ladder Peak | 60.64 |
| 6 | 300 | 150.00 | 757.6 | Ladder Peak | 69.88 |
| 7 | 400 | 150.00 | 568.2 | Ladder Peak | 77.91 |
| 8 | 500 | 150.00 | 454.5 | Ladder Peak | 83.58 |
| 9 | 600 | 150.00 | 378.8 | Ladder Peak | 88.27 |
| 10 | 700 | 150.00 | 324.7 | Ladder Peak | 91.42 |
| 11 | 1,000 | 150.00 | 227.3 | Ladder Peak | 95.50 |
| 12 | 2,000 | 150.00 | 113.6 | Ladder Peak | 101.65 |
| 13 | 3,000 | 150.00 | 75.8 | Ladder Peak | 104.74 |
| 14 | 7,000 | 150.00 | 32.5 | Ladder Peak | 109.72 |
| 15 | 10,380 | 75.00 | 10.9 | Upper Marker | 113.00 |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...\Bioanalyzer\2016-02-11\2016-02-11_001_Rappy_AmpliconQC.xad

Created: 2/11/2016 10:47:50 AM
 Modified: 2/11/2016 5:05:46 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : Rappy (1:100)

Number of peaks found: 17 Corr. Area 1: 1,434.3
 Noise: 0.2

Peak table for sample 1 : Rappy (1:100)

| 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 | 315 | 1,614.32 | 7,768.2 | | 71.08 |
| 3 | 371 | 66.89 | 273.5 | | 75.55 |
| 4 | 390 | 31.91 | 123.9 | | 77.12 |
| 5 | 425 | 39.91 | 142.4 | | 79.31 |
| 6 | 470 | 21.00 | 67.7 | | 81.88 |
| 7 | 498 | 19.75 | 60.1 | | 83.45 |
| 8 | 520 | 24.35 | 70.9 | | 84.54 |
| 9 | 545 | 49.42 | 137.4 | | 85.69 |
| 10 | 602 | 10.51 | 26.4 | | 88.35 |
| 11 | 649 | 6.03 | 14.1 | | 89.83 |
| 12 | 672 | 5.67 | 12.8 | | 90.54 |
| 13 | 723 | 7.55 | 15.8 | | 91.73 |
| 14 | 2,439 | 3.92 | 2.4 | | 103.01 |
| 15 | 3,594 | 18.42 | 7.8 | | 105.48 |
| 16 | 4,895 | 5.79 | 1.8 | | 107.10 |
| 17 | 6,809 | 5.74 | 1.3 | | 109.48 |
| 18 | 8,519 | 5.83 | 1.0 | | 111.19 |
| 19 | 10,380 | 75.00 | 10.9 | Upper Marker | 113.00 |

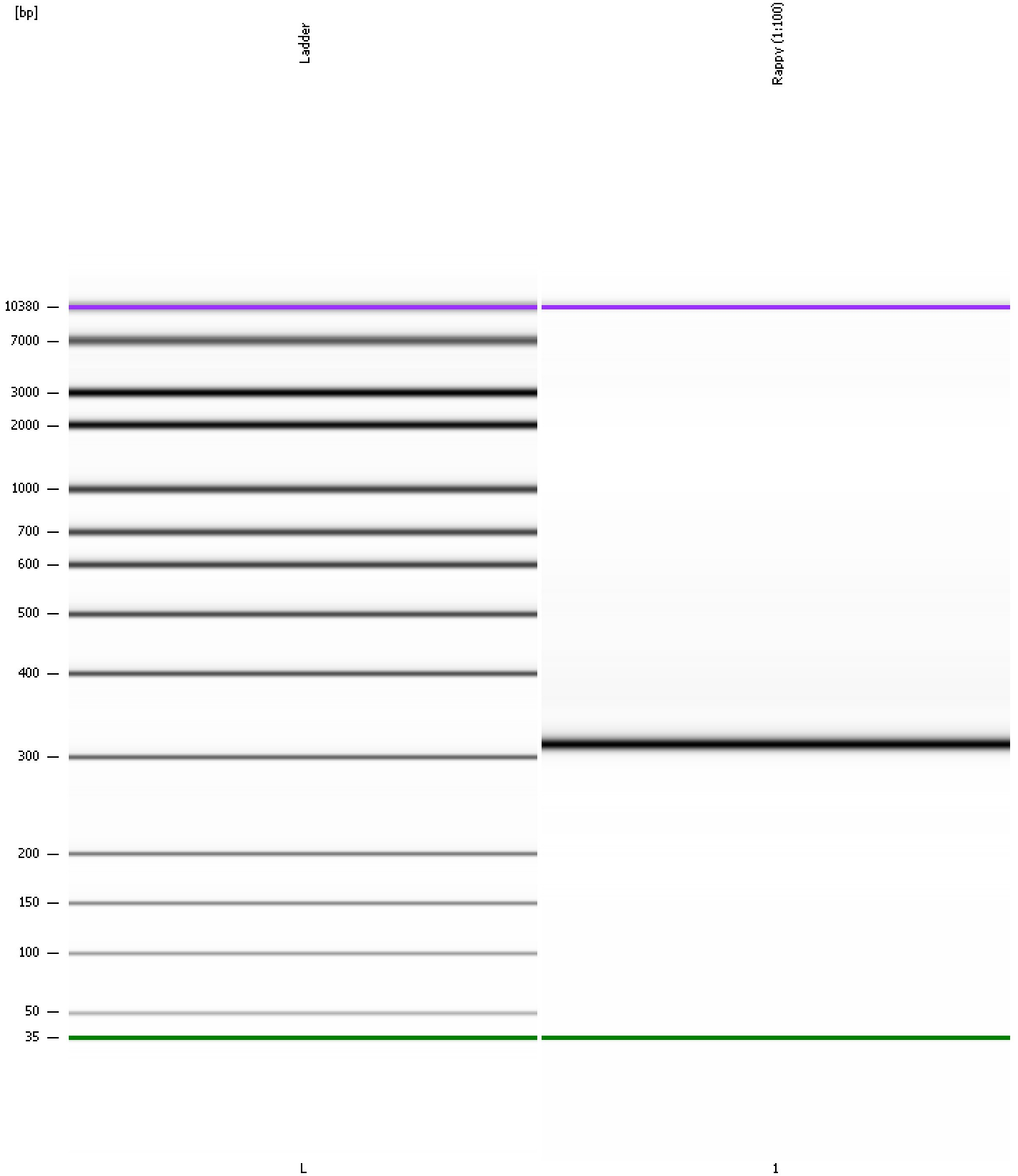
Region table for sample 1 : Rappy (1:100)

| From [bp] | To [bp] | Average Size [bp] | Corr. Area | Molarity [pmol/l] | Co Conc. [pg/μl] | % of Total | Size distribution in CV [%] |
|-----------|---------|-------------------|------------|-------------------|------------------|------------|-----------------------------|
| 274 | 1,000 | 354 | 1,434.3 | 8,754.8 | 1,942.31 | 95 | 25.5 |

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...\Bioanalyzer\2016-02-11\2016-02-11_001_Rappy_AmpliconQC.xad

Created: 2/11/2016 10:47:50 AM
Modified: 2/11/2016 5:05:46 PM

Gel Image



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...\Bioanalyzer\2016-02-11\2016-02-11_001_Rappy_AmpliconQC.xad

Created: 2/11/2016 10:47:50 AM
 Modified: 2/11/2016 5:05:46 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 | | 2/11/2016 11:29:07 AM | (GMT --08:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2016-02-11\2016-02-11_001.xad) | | Instrument | Run | | 2/11/2016 10:47:56 AM | (GMT --08:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Product Number : G2938B | | Instrument | Run | | 2/11/2016 10:47:56 AM | (GMT --08:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Name : | | Instrument | Run | | 2/11/2016 10:47:56 AM | (GMT --08:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Vendor : Agilent Technologies | | Instrument | Run | | 2/11/2016 10:47:56 AM | (GMT --08:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Serial# : DE13701086 | | Instrument | Run | | 2/11/2016 10:47:56 AM | (GMT --08:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Firmware : C.01.069 | | Instrument | Run | | 2/11/2016 10:47:56 AM | (GMT --08:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Cartridge : Electrode | | Instrument | Run | | 2/11/2016 10:47:56 AM | (GMT --08:00) Pacific Standard Time | UC Davis | D8XSMGH1 |