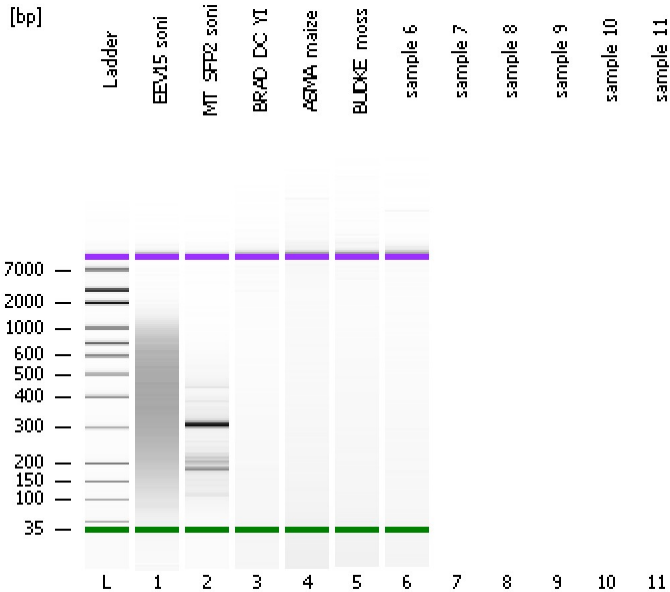


Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-03-17\2015-03-17_003.xad

Created: 3/17/2015 1:18:14 PM
Modified: 3/17/2015 3:01:52 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

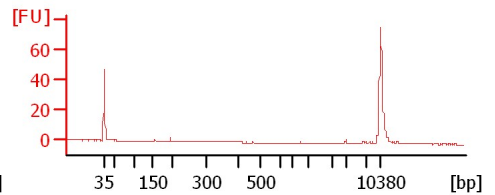
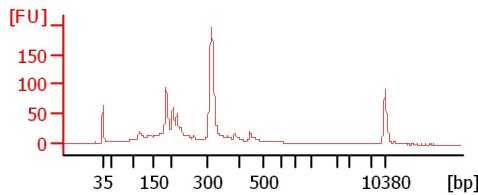
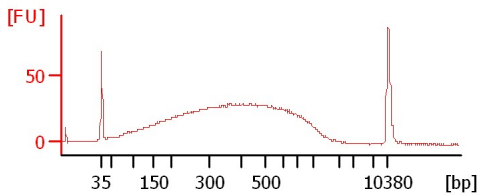
Chip Information:

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

EEV15 soni

MT_SFP2 soni

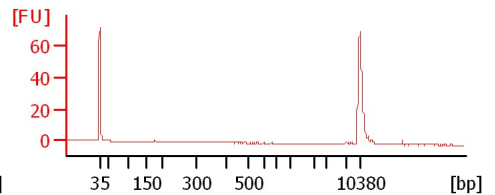
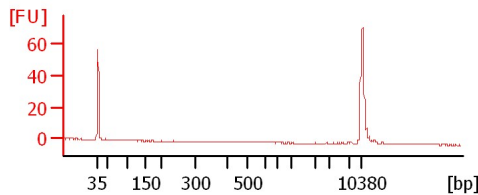
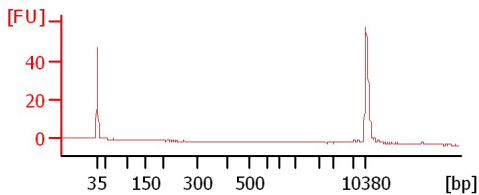
BRAD_DC_YI



ASMA_maize

BUDKE_moss

sample 6



Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-03-17\2015-03-17_003.xad

Created: 3/17/2015 1:18:14 PM
Modified: 3/17/2015 3:01:52 PM

Electrophoresis File Run Summary (Chip Summary)

| Sample Name | Sample Comment | Rest. Digest | Status | Observation | Result Label | Result Color |
|--------------|----------------|--------------------------|--------|-------------|--------------|--------------|
| EEV15 soni | | <input type="checkbox"/> | ✓ | | | |
| MT_SFP2 soni | | <input type="checkbox"/> | ✓ | | | |
| BRAD_DC_YI | | <input type="checkbox"/> | ✓ | | | |
| ASMA_maize | | <input type="checkbox"/> | ✓ | | | |
| BUDKE_moss | | <input type="checkbox"/> | ✓ | | | |
| sample 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\2015-03-17\2015-03-17_003.xad

Created: 3/17/2015 1:18:14 PM
Modified: 3/17/2015 3:01:52 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

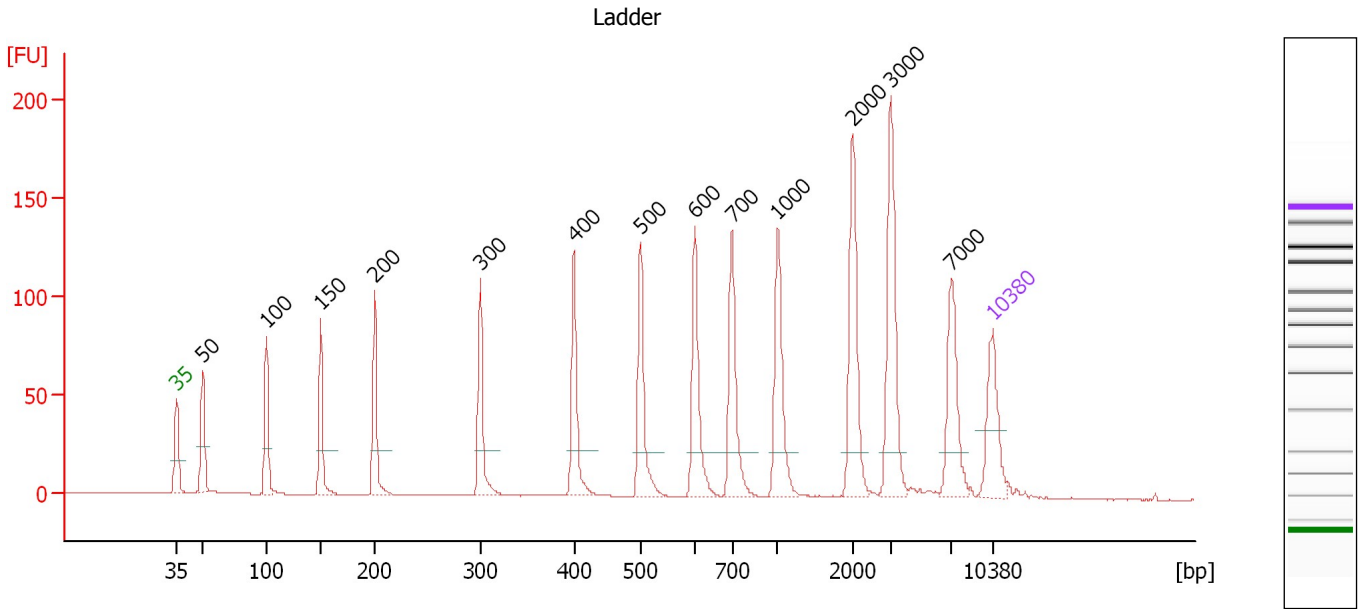
Ladder

| 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\2015-03-17\2015-03-17_003.xad

Created: 3/17/2015 1:18:14 PM
 Modified: 3/17/2015 3:01:52 PM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.1

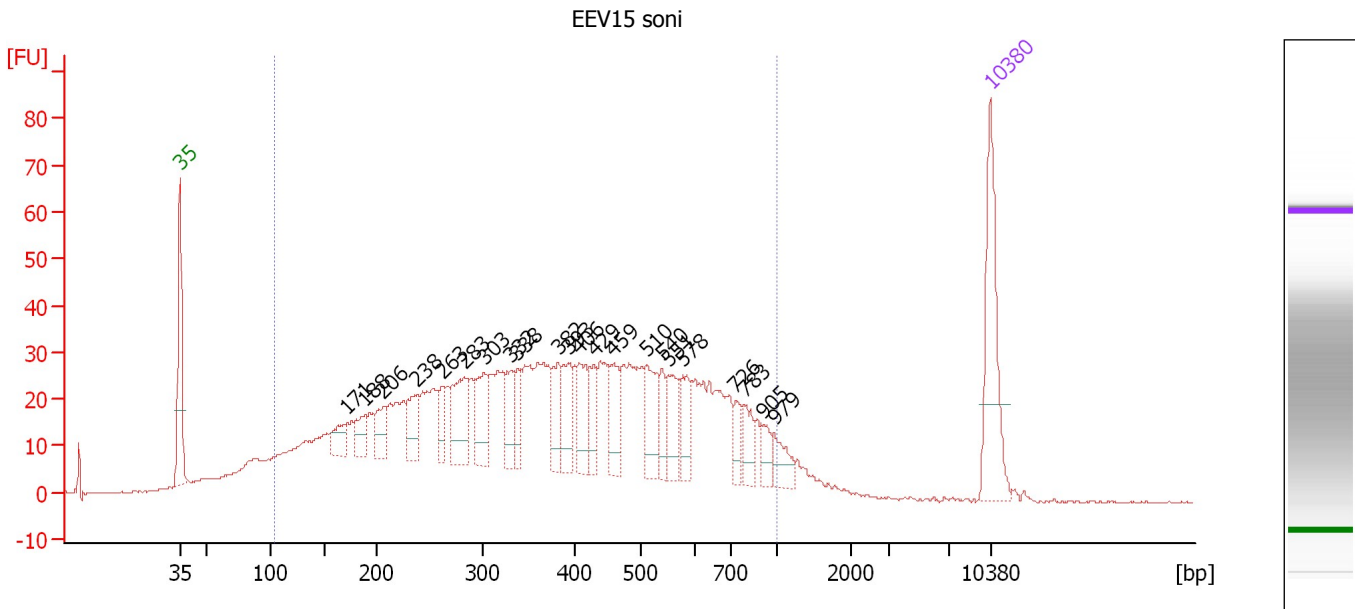
Peak table for Ladder

| 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 | 45.29 |
| 3 | 100 | 150.00 | 2,272.7 | Ladder Peak | 50.73 |
| 4 | 150 | 150.00 | 1,515.2 | Ladder Peak | 55.39 |
| 5 | 200 | 150.00 | 1,136.4 | Ladder Peak | 60.01 |
| 6 | 300 | 150.00 | 757.6 | Ladder Peak | 69.06 |
| 7 | 400 | 150.00 | 568.2 | Ladder Peak | 77.11 |
| 8 | 500 | 150.00 | 454.5 | Ladder Peak | 82.78 |
| 9 | 600 | 150.00 | 378.8 | Ladder Peak | 87.44 |
| 10 | 700 | 150.00 | 324.7 | Ladder Peak | 90.64 |
| 11 | 1,000 | 150.00 | 227.3 | Ladder Peak | 94.57 |
| 12 | 2,000 | 150.00 | 113.6 | Ladder Peak | 100.98 |
| 13 | 3,000 | 150.00 | 75.8 | Ladder Peak | 104.27 |
| 14 | 7,000 | 150.00 | 32.5 | Ladder Peak | 109.48 |
| 15 | 10,380 | 75.00 | 10.9 | Upper Marker | 113.00 |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-03-17\2015-03-17_003.xad

Created: 3/17/2015 1:18:14 PM
 Modified: 3/17/2015 3:01:52 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : EEV15 soni

Number of peaks found: 22 Corr. Area 1: 1,376.8
 Noise: 0.2

Peak table for sample 1 : EEV15 soni

| 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 | 171 | 27.49 | 243.0 | | 57.37 |
| 3 | 188 | 26.48 | 213.0 | | 58.93 |
| 4 | 206 | 28.83 | 212.1 | | 60.55 |
| 5 | 238 | 40.21 | 255.5 | | 63.49 |
| 6 | 263 | 23.35 | 134.6 | | 65.70 |
| 7 | 283 | 62.30 | 333.8 | | 67.50 |
| 8 | 303 | 46.85 | 234.3 | | 69.30 |
| 9 | 332 | 33.14 | 151.4 | | 71.60 |
| 10 | 338 | 25.46 | 114.0 | | 72.15 |
| 11 | 382 | 36.01 | 142.9 | | 75.65 |
| 12 | 393 | 39.44 | 151.9 | | 76.57 |
| 13 | 406 | 42.72 | 159.4 | | 77.45 |
| 14 | 429 | 29.18 | 103.1 | | 78.74 |
| 15 | 459 | 38.07 | 125.7 | | 80.44 |
| 16 | 510 | 44.09 | 131.0 | | 83.25 |
| 17 | 540 | 22.40 | 62.9 | | 84.63 |
| 18 | 551 | 38.01 | 104.6 | | 85.14 |
| 19 | 578 | 27.69 | 72.5 | | 86.43 |
| 20 | 726 | 17.89 | 37.3 | | 90.99 |
| 21 | 783 | 20.60 | 39.9 | | 91.72 |
| 22 | 905 | 13.78 | 23.1 | | 93.34 |
| 23 | 979 | 20.89 | 32.3 | | 94.30 |
| 24 | 10,380 | 75.00 | 10.9 | Upper Marker | 113.00 |

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-03-17\2015-03-17_003.xad

Created: 3/17/2015 1:18:14 PM
Modified: 3/17/2015 3:01:52 PM

Electropherogram Summary Continued ...

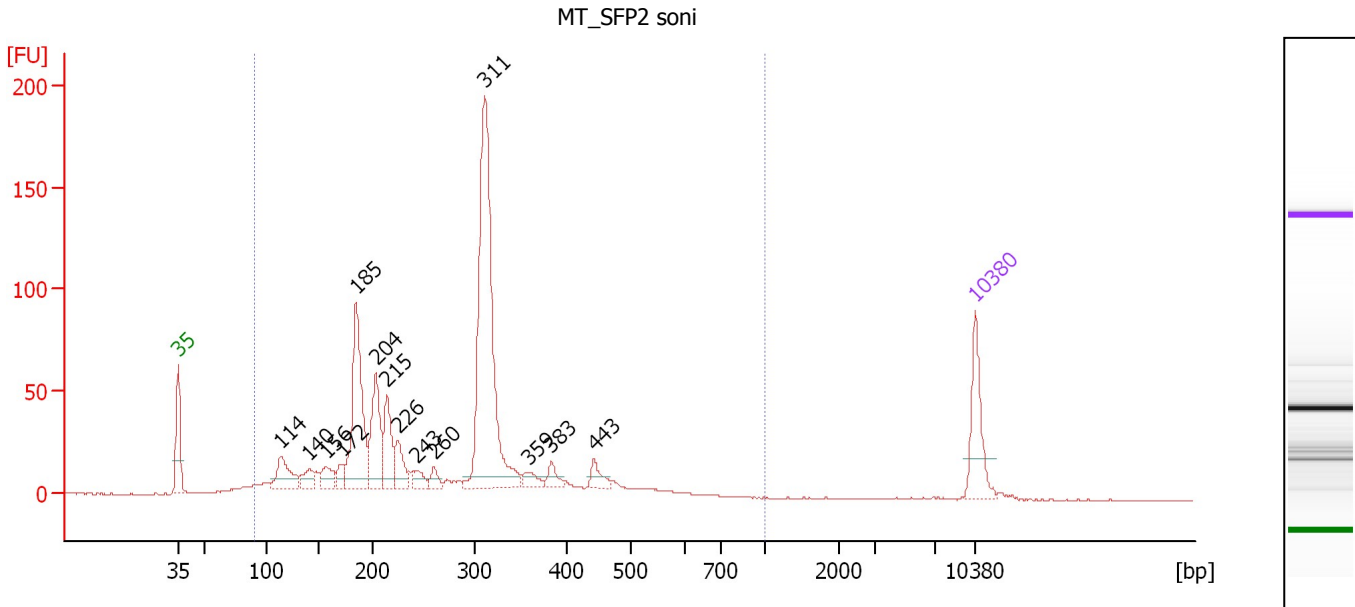
... Region table for sample 1 : EEV15 soni

| From [bp] | Average Size [bp] | To [bp] | Corr. Area | Molarity [pmol/l] | % of Total | Size distribution in CV [%] | Conc. [pg/μl] | Color |
|-----------|-------------------|---------|------------|-------------------|------------|-----------------------------|---------------|-------|
| 104 | 406 | 1,000 | 1,376.8 | 10,419.7 | 91 | 45.9 | 1,948.42 | ■ |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-03-17\2015-03-17_003.xad

Created: 3/17/2015 1:18:14 PM
 Modified: 3/17/2015 3:01:52 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : MT_SFP2 soni

Number of peaks found: 14 Corr. Area 1: 1,177.4
 Noise: 0.1

Peak table for sample 2 : MT_SFP2 soni

| 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 | 114 | 90.43 | 1,201.4 | | 52.04 |
| 3 | 140 | 41.12 | 444.6 | | 54.47 |
| 4 | 156 | 42.94 | 416.3 | | 55.97 |
| 5 | 172 | 26.53 | 233.8 | | 57.42 |
| 6 | 185 | 279.01 | 2,283.0 | | 58.64 |
| 7 | 204 | 144.34 | 1,072.0 | | 60.37 |
| 8 | 215 | 95.84 | 675.8 | | 61.35 |
| 9 | 226 | 54.39 | 365.1 | | 62.34 |
| 10 | 243 | 24.36 | 151.7 | | 63.93 |
| 11 | 260 | 19.12 | 111.3 | | 65.47 |
| 12 | 311 | 583.41 | 2,839.6 | | 69.97 |
| 13 | 359 | 22.19 | 93.6 | | 73.81 |
| 14 | 383 | 21.05 | 83.2 | | 75.78 |
| 15 | 443 | 24.55 | 84.1 | | 79.52 |
| 16 | 10,380 | 75.00 | 10.9 | Upper Marker | 113.00 |

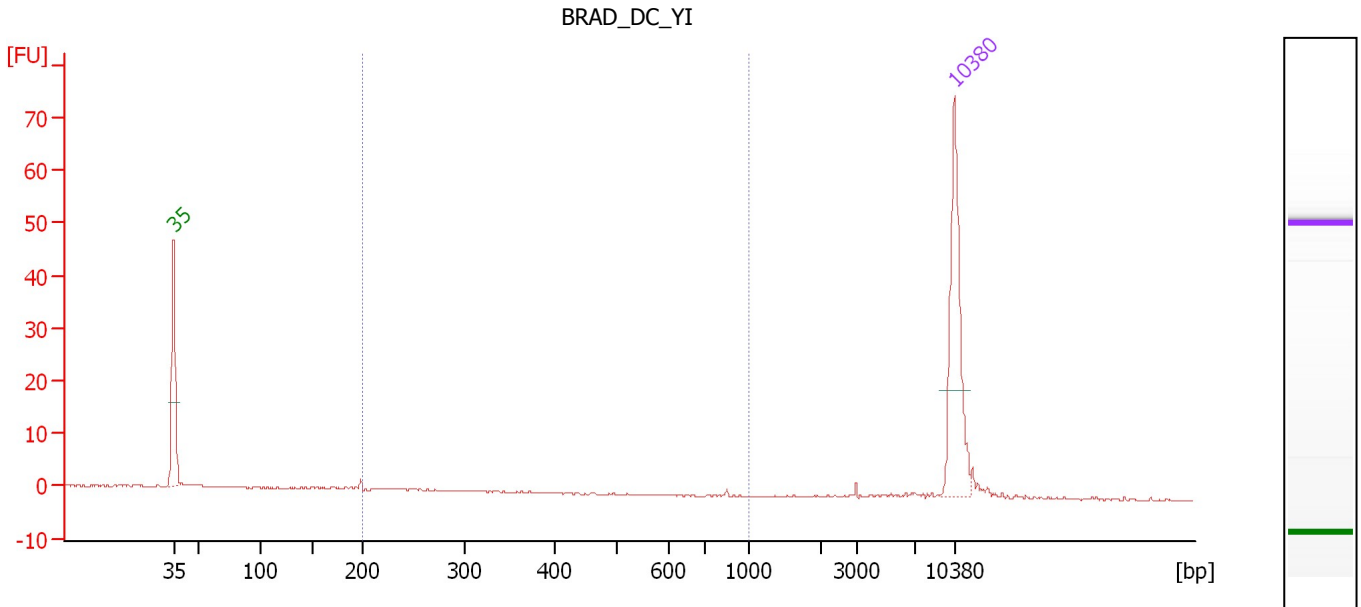
Region table for sample 2 : MT_SFP2 soni

| From [bp] | Average Size [bp] | To [bp] | Corr. Area | Molarity [pmol/l] | % of Total | Size distribution in CV [%] | Conc. [pg/μl] | Color |
|-----------|-------------------|---------|------------|-------------------|------------|-----------------------------|---------------|-------|
| 91 | 277 | 1,000 | 1,177.4 | 12,685.4 | 97 | 36.7 | 1,878.52 | Blue |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-03-17\2015-03-17_003.xad

Created: 3/17/2015 1:18:14 PM
 Modified: 3/17/2015 3:01:52 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : BRAD_DC_YI

Number of peaks found: 0 Corr. Area 1: 1.5
 Noise: 0.1

Peak table for sample 3 : BRAD_DC_YI

| 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 |

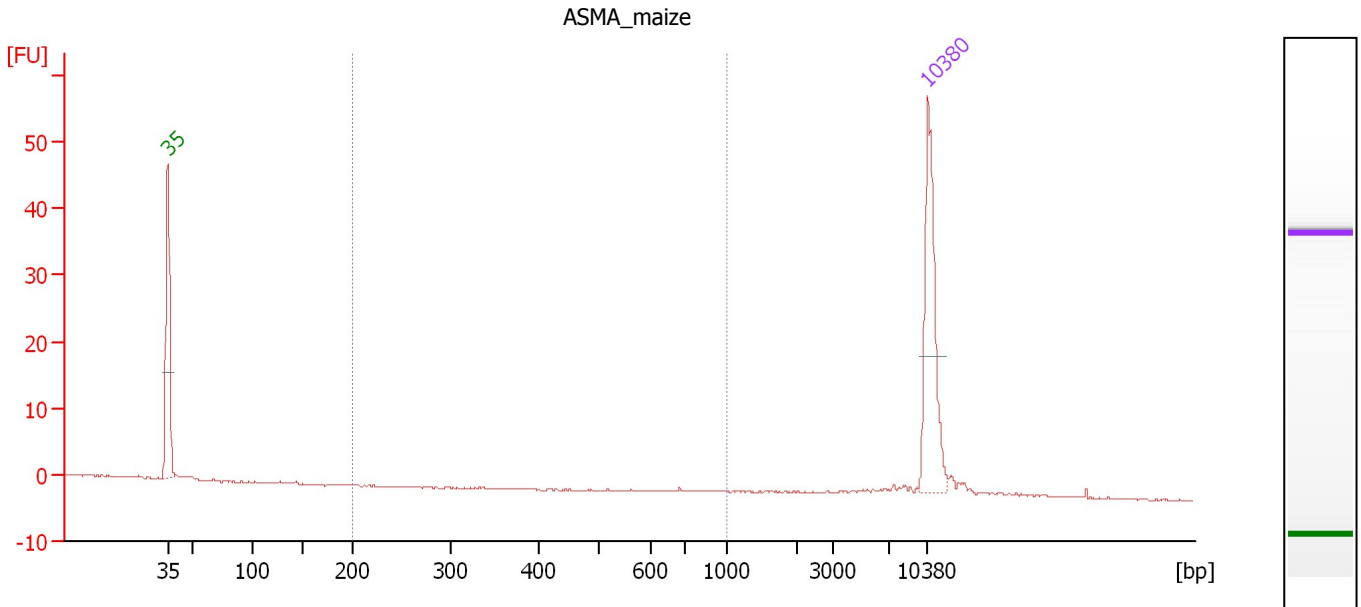
Region table for sample 3 : BRAD_DC_YI

| From [bp] | Average Size [bp] | To [bp] | Corr. Area | Molarity [pmol/l] | % of Total | Size distribution in CV [%] | Conc. [pg/μl] | Color |
|-----------|-------------------|---------|------------|-------------------|------------|-----------------------------|---------------|-------|
| 200 | 355 | 1,000 | 1.5 | 15.5 | 7 | 64.3 | 2.71 | Blue |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-03-17\2015-03-17_003.xad

Created: 3/17/2015 1:18:14 PM
 Modified: 3/17/2015 3:01:52 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : ASMA_maize

Number of peaks found: 0 Corr. Area 1: 0.0
 Noise: 0.1

Peak table for sample 4 : ASMA_maize

| 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 |

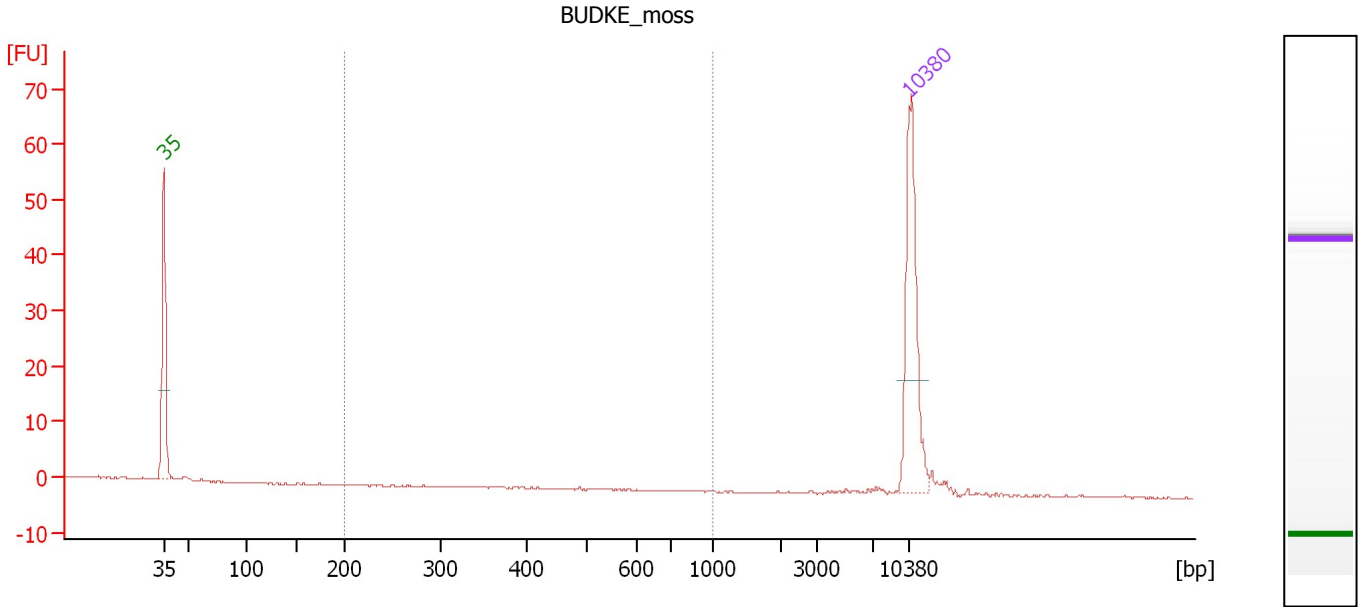
Region table for sample 4 : ASMA_maize

| From [bp] | Average Size [bp] | To [bp] | Corr. Area | Molarity [pmol/l] | % of Total | Size distribution in CV [%] | Conc. [pg/μl] | Color |
|-----------|-------------------|---------|------------|-------------------|------------|-----------------------------|---------------|-------|
| 200 | 692 | 1,000 | 0.0 | 0.1 | 0 | 5.9 | 0.07 | Blue |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-03-17\2015-03-17_003.xad

Created: 3/17/2015 1:18:14 PM
 Modified: 3/17/2015 3:01:52 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : BUDKE_moss

Number of peaks found: 0 Corr. Area 1: 0.0
 Noise: 0.1

Peak table for sample 5 : BUDKE_moss

| 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 |

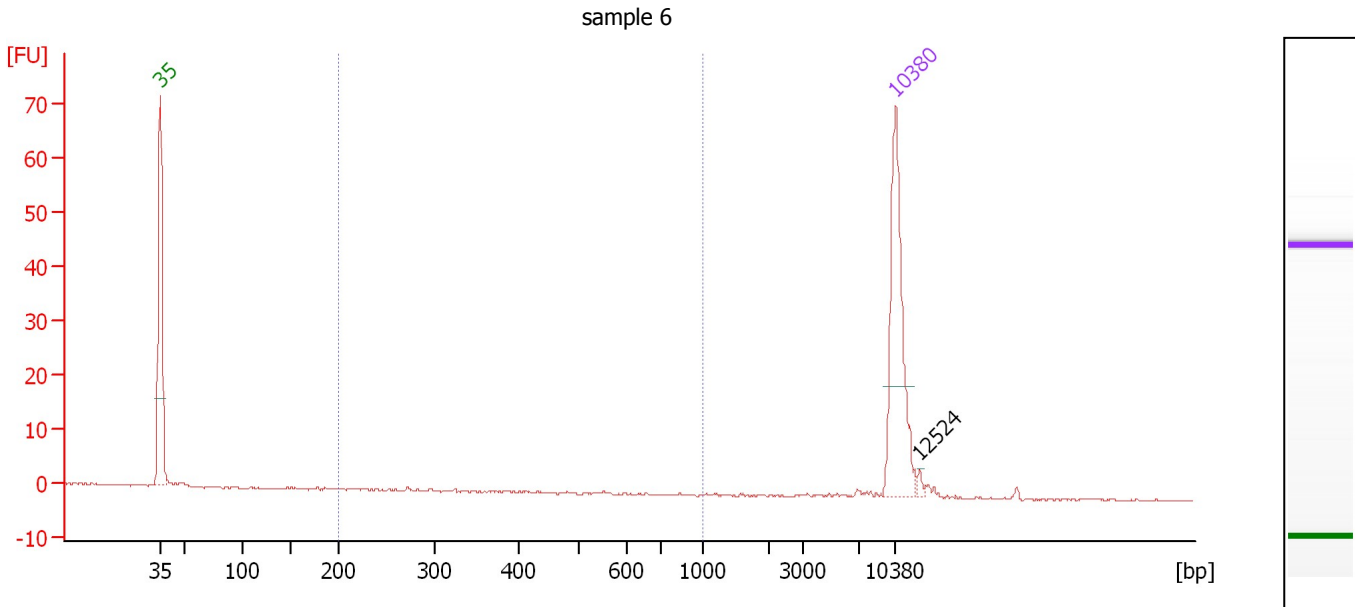
Region table for sample 5 : BUDKE_moss

| From [bp] | Average Size [bp] | To [bp] | Corr. Area | Molarity [pmol/l] | % of Total | Size distribution in CV [%] | Conc. [pg/μl] | Color |
|-----------|-------------------|---------|------------|-------------------|------------|-----------------------------|---------------|-------|
| 200 | 0 | 1,000 | 0.0 | 0.0 | 0 | 0.0 | 0.00 | Blue |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-03-17\2015-03-17_003.xad

Created: 3/17/2015 1:18:14 PM
 Modified: 3/17/2015 3:01:52 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : sample 6

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

Peak table for sample 6 : sample 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 |
| 3 | 12,524 | 0.00 | 0.0 | | 115.23 |

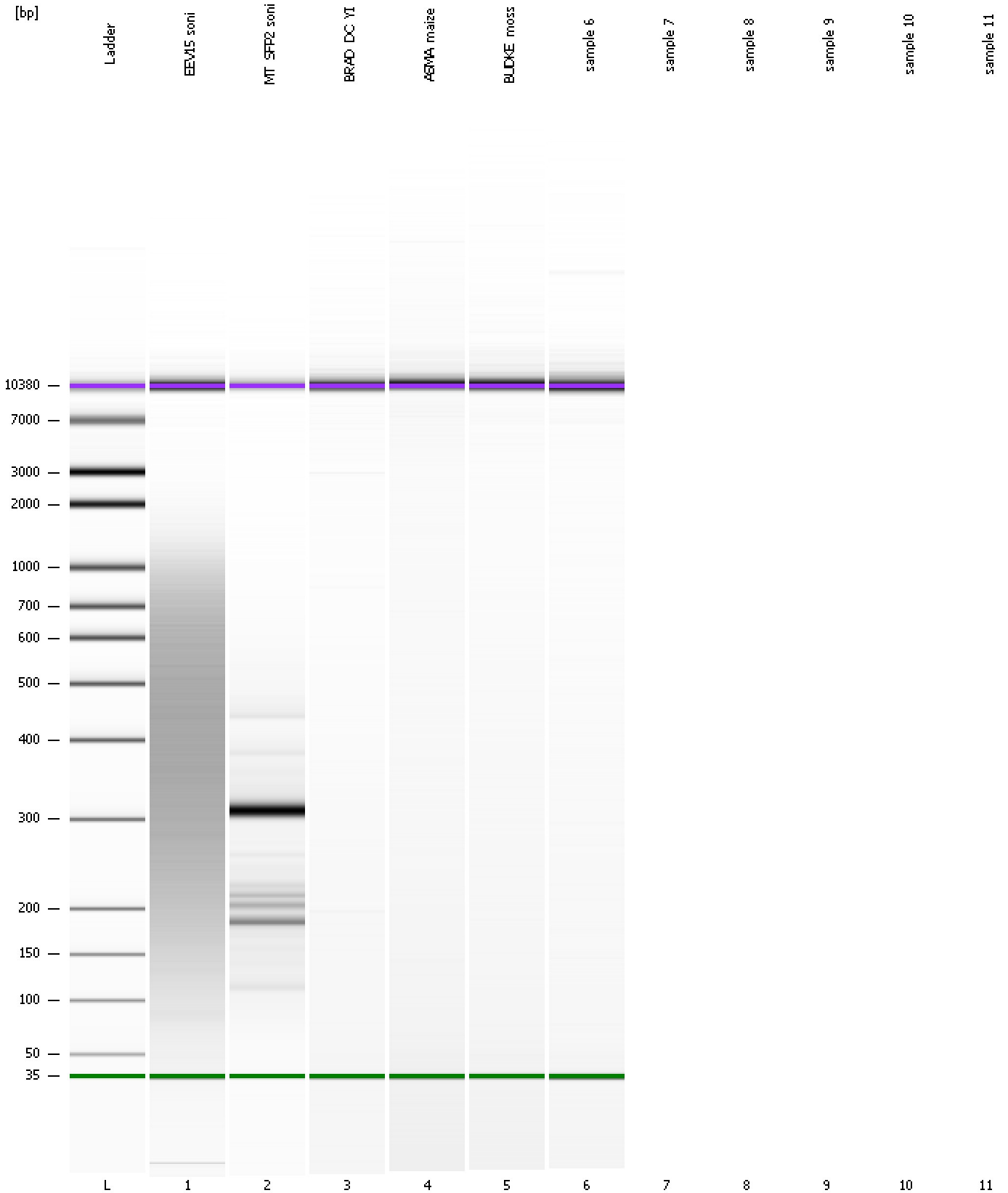
Region table for sample 6 : sample 6

| From [bp] | Average Size [bp] | To [bp] | Corr. Area | Molarity [pmol/l] | % of Total | Size distribution in CV [%] | Conc. [pg/μl] | Color |
|-----------|-------------------|---------|------------|-------------------|------------|-----------------------------|---------------|-------|
| 200 | 299 | 1,000 | 0.1 | 0.7 | 1 | 17.9 | 0.14 | Blue |

Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-03-17\2015-03-17_003.xad

Created: 3/17/2015 1:18:14 PM
Modified: 3/17/2015 3:01:52 PM

Gel Image



Assay Class: High Sensitivity DNA Assay
Data Path: C:\...ents and Settings\Bioanalyzer\2015-03-17\2015-03-17_003.xad

Created: 3/17/2015 1:18:14 PM
Modified: 3/17/2015 3:01:52 PM

Invalid Samples

Sample 7 has not been run, no results available.

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.

Sample 11 has not been run, no results available.

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-03-17\2015-03-17_003.xad

Created: 3/17/2015 1:18:14 PM
 Modified: 3/17/2015 3:01:52 PM

Run Logbook

| Description | Number | Source | Category | Sub Category | Time | Time Zone | User | Host |
|---|--------|------------|----------|--------------|----------------------|-------------------------------------|----------|----------|
| Run ended on port 1 (Number of wells acquired: 7) | | Instrument | Run | | 3/17/2015 1:45:16 PM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2015-03-17\2015-03-17_003.xad) | | Instrument | Run | | 3/17/2015 1:18:20 PM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Product Number : G2938B | | Instrument | Run | | 3/17/2015 1:18:20 PM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Name : | | Instrument | Run | | 3/17/2015 1:18:20 PM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Vendor : Agilent Technologies | | Instrument | Run | | 3/17/2015 1:18:20 PM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Serial# : DE13701086 | | Instrument | Run | | 3/17/2015 1:18:20 PM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Firmware : C.01.069 | | Instrument | Run | | 3/17/2015 1:18:20 PM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Cartridge : Electrode | | Instrument | Run | | 3/17/2015 1:18:20 PM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |