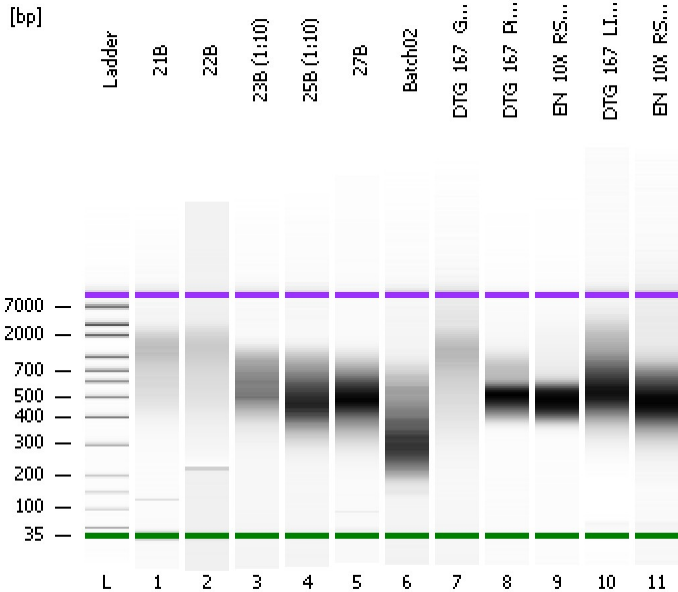


Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2018-03-14\2018-03-14_003.xad

Created: 3/14/2018 4:23:43 PM
Modified: 3/14/2018 5:19:42 PM

Electrophoresis File Run Summary



Instrument Information:

Instrument Name: DE34903152 Firmware: C.01.069
Serial#: DE34903152 Type: G2938C

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

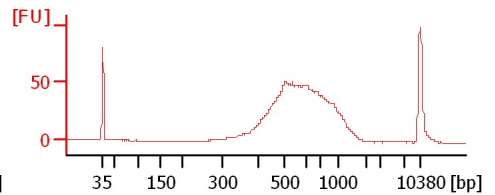
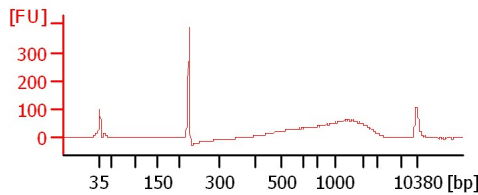
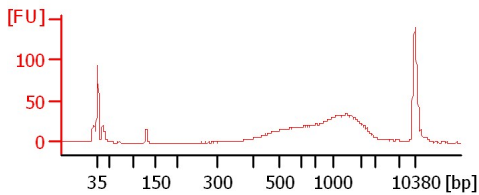
Chip Information:

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

21B

22B

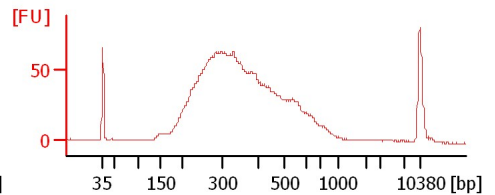
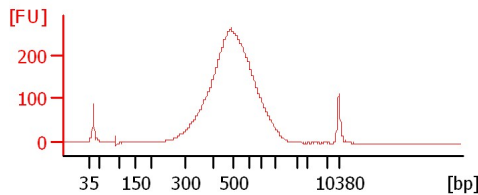
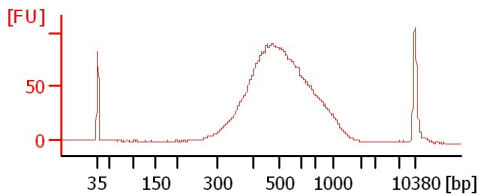
23B (1:10)



25B (1:10)

27B

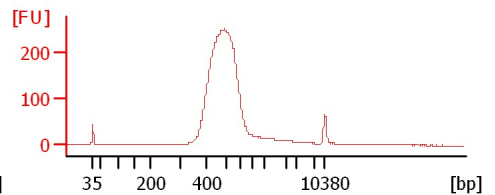
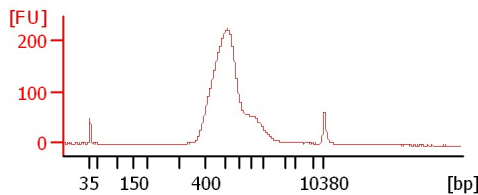
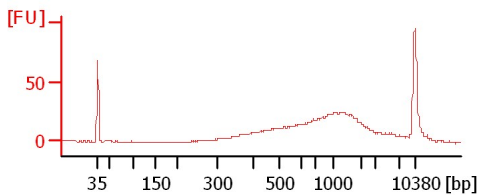
Batch02



DTG_167_GEM (Dil)

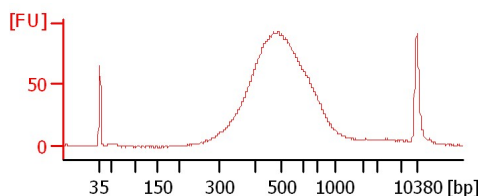
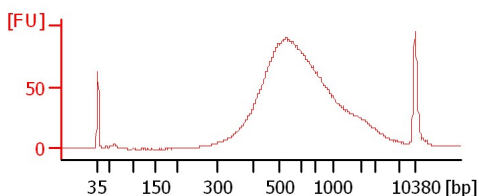
DTG_167_Pippin

EN_10X_RS_Pippin



DTG_167_LIB (1:10)

EN_10X_RS_LIB (1:10)



Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2018-03-14\2018-03-14_003.xad

Created: 3/14/2018 4:23:43 PM
Modified: 3/14/2018 5:19:42 PM

Electrophoresis File Run Summary (Chip Summary)

| Sample Name | Sample Comment | Rest. Digest | Status | Observation | Result Label | Result Color |
|----------------------|----------------|--------------------------|--------|-------------|--------------|--------------|
| 21B | | <input type="checkbox"/> | ✓ | | | |
| 22B | | <input type="checkbox"/> | ✓ | | | |
| 23B (1:10) | | <input type="checkbox"/> | ✓ | | | |
| 25B (1:10) | | <input type="checkbox"/> | ✓ | | | |
| 27B | | <input type="checkbox"/> | ✓ | | | |
| Batch02 | | <input type="checkbox"/> | ✓ | | | |
| DTG_167_GEM (Dil) | | <input type="checkbox"/> | ✓ | | | |
| DTG_167_Pippin | | <input type="checkbox"/> | ✓ | | | |
| EN_10X_RS_Pippin | | <input type="checkbox"/> | ✓ | | | |
| DTG_167_LIB (1:10) | | <input type="checkbox"/> | ✓ | | | |
| EN_10X_RS_LIB (1:10) | | <input type="checkbox"/> | ✓ | | | |
| Ladder | | <input type="checkbox"/> | ✓ | | | |

Chip Lot #

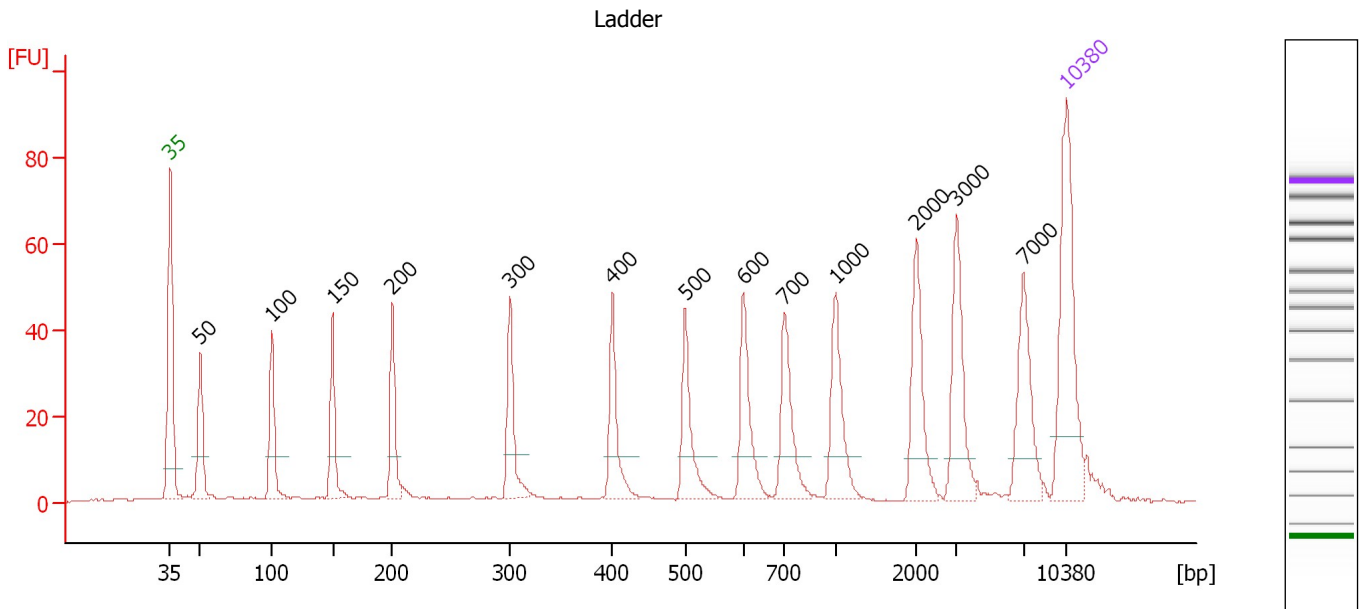
Reagent Kit Lot #

Chip Comments :

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-03-14\2018-03-14_003.xad

Created: 3/14/2018 4:23:43 PM
 Modified: 3/14/2018 5:19:42 PM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.3

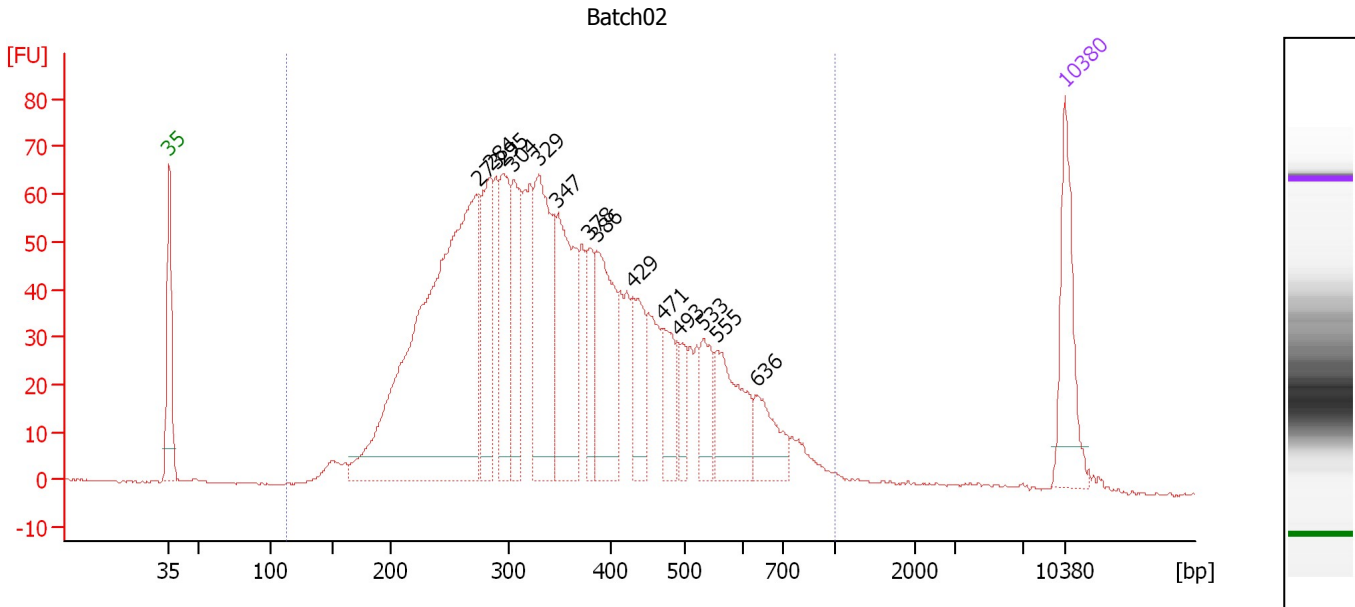
Peak table for Ladder

| 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 | 45.34 |
| 3 | 100 | 150.00 | 2,272.7 | Ladder Peak | 50.96 |
| 4 | 150 | 150.00 | 1,515.2 | Ladder Peak | 55.69 |
| 5 | 200 | 150.00 | 1,136.4 | Ladder Peak | 60.36 |
| 6 | 300 | 150.00 | 757.6 | Ladder Peak | 69.57 |
| 7 | 400 | 150.00 | 568.2 | Ladder Peak | 77.53 |
| 8 | 500 | 150.00 | 454.5 | Ladder Peak | 83.25 |
| 9 | 600 | 150.00 | 378.8 | Ladder Peak | 87.78 |
| 10 | 700 | 150.00 | 324.7 | Ladder Peak | 91.01 |
| 11 | 1,000 | 150.00 | 227.3 | Ladder Peak | 94.99 |
| 12 | 2,000 | 150.00 | 113.6 | Ladder Peak | 101.31 |
| 13 | 3,000 | 150.00 | 75.8 | Ladder Peak | 104.44 |
| 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\2100 expert\data\2018-03-14\2018-03-14_003.xad

Created: 3/14/2018 4:23:43 PM
 Modified: 3/14/2018 5:19:42 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : Batch02

Number of peaks found: 14 Corr. Area 1: 1,835.0
 Noise: 0.3

Peak table for sample 6 : Batch02

| 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 | 273 | 717.98 | 3,978.6 | | 67.12 |
| 3 | 284 | 135.00 | 721.3 | | 68.05 |
| 4 | 295 | 127.23 | 653.7 | | 69.10 |
| 5 | 304 | 107.30 | 535.2 | | 69.87 |
| 6 | 329 | 195.19 | 899.9 | | 71.85 |
| 7 | 347 | 171.61 | 748.8 | | 73.33 |
| 8 | 378 | 61.01 | 244.4 | | 75.80 |
| 9 | 386 | 134.53 | 528.2 | | 76.41 |
| 10 | 429 | 70.62 | 249.2 | | 79.21 |
| 11 | 471 | 56.63 | 182.3 | | 81.57 |
| 12 | 493 | 31.83 | 97.9 | | 82.84 |
| 13 | 533 | 46.26 | 131.4 | | 84.76 |
| 14 | 555 | 94.07 | 256.7 | | 85.75 |
| 15 | 636 | 51.71 | 123.2 | | 88.93 |
| 16 | 10,380 | 75.00 | 10.9 | Upper Marker | 113.00 |

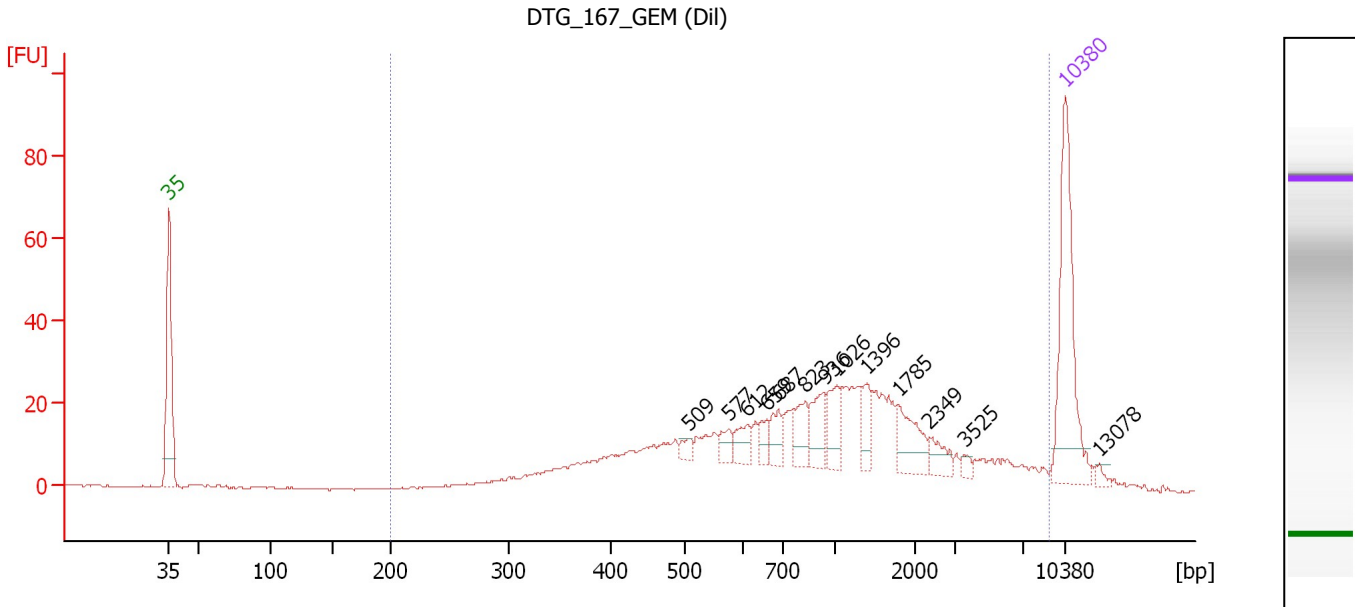
Region table for sample 6 : Batch02

| From [bp] | To [bp] | Average Size [bp] | Corr. Area | Conc. [pg/μl] | Molarity [pmol/l] | Co % of Ior Total | Size distribution in CV [%] |
|-----------|---------|-------------------|------------|---------------|-------------------|-------------------|-----------------------------|
| 112 | 1,000 | 369 | 1,835.0 | 2,632.24 | 12,700.1 | 98 | 36.1 |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-03-14\2018-03-14_003.xad

Created: 3/14/2018 4:23:43 PM
 Modified: 3/14/2018 5:19:42 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : DTG_167_GEM (Dil)

Number of peaks found: 13 Corr. Area 1: 604.4
 Noise: 0.3

Peak table for sample 7 : DTG_167_GEM (Dil)

| 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 | 509 | 6.02 | 17.9 | | 83.66 |
| 3 | 577 | 9.05 | 23.8 | | 86.73 |
| 4 | 612 | 13.41 | 33.2 | | 88.18 |
| 5 | 659 | 8.53 | 19.6 | | 89.69 |
| 6 | 687 | 14.57 | 32.1 | | 90.58 |
| 7 | 823 | 19.07 | 35.1 | | 92.64 |
| 8 | 936 | 21.35 | 34.5 | | 94.15 |
| 9 | 1,026 | 22.40 | 33.1 | | 95.15 |
| 10 | 1,396 | 16.03 | 17.4 | | 97.49 |
| 11 | 1,785 | 24.48 | 20.8 | | 99.95 |
| 12 | 2,349 | 10.68 | 6.9 | | 102.40 |
| 13 | 3,525 | 3.56 | 1.5 | | 105.14 |
| 14 | 10,380 | 75.00 | 10.9 | Upper Marker | 113.00 |
| 15 | 13,078 | 0.00 | 0.0 | | 115.62 |

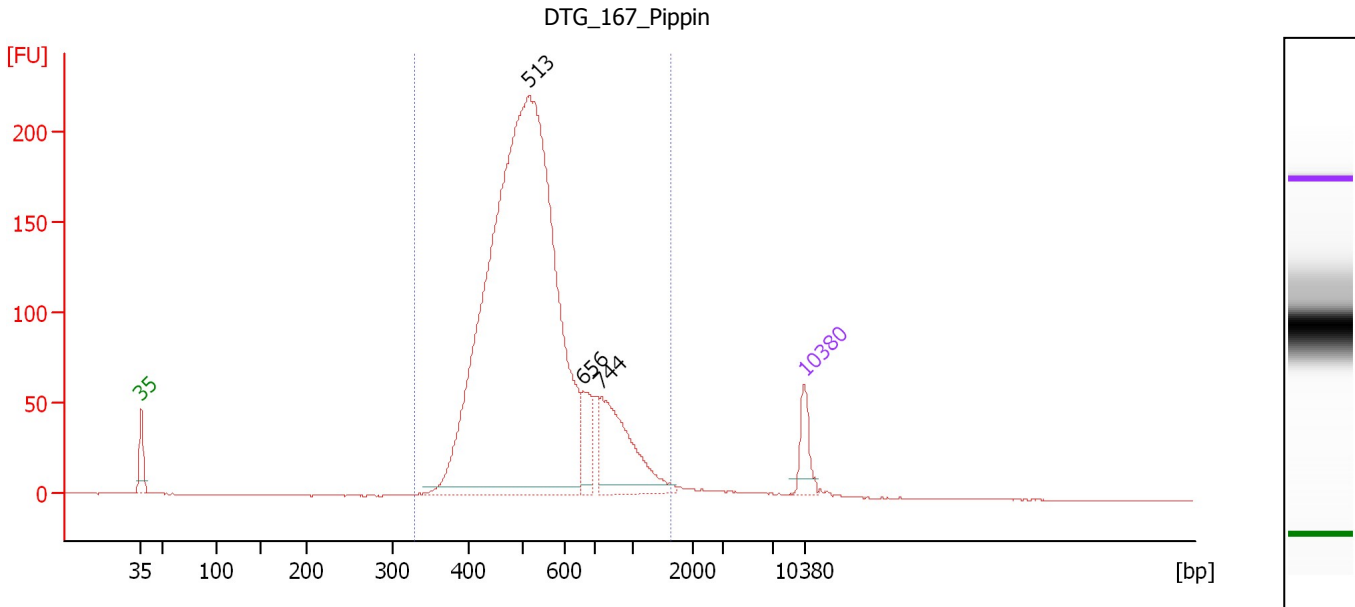
Region table for sample 7 : DTG_167_GEM (Dil)

| From [bp] | To [bp] | Average Size [bp] | Corr. Area | Conc. [pg/μl] | Molarity [pmol/l] | Co % of lor Total | Size distribution in CV [%] |
|-----------|---------|-------------------|------------|---------------|-------------------|-------------------|-----------------------------|
| 200 | 9,091 | 1,465 | 604.4 | 583.59 | 1,282.9 | 95 | 100.0 |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-03-14\2018-03-14_003.xad

Created: 3/14/2018 4:23:43 PM
 Modified: 3/14/2018 5:19:42 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : DTG 167 Pippin

Number of peaks found: 3 Corr. Area 1: 2,537.1
 Noise: 0.4

Peak table for sample 8 : DTG 167 Pippin

| 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 | 513 | 3,759.95 | 11,109.2 | | 83.83 |
| 3 | 656 | 125.99 | 291.2 | | 89.57 |
| 4 | 744 | 374.06 | 761.3 | | 91.60 |
| 5 | 10,380 | 75.00 | 10.9 | Upper Marker | 113.00 |

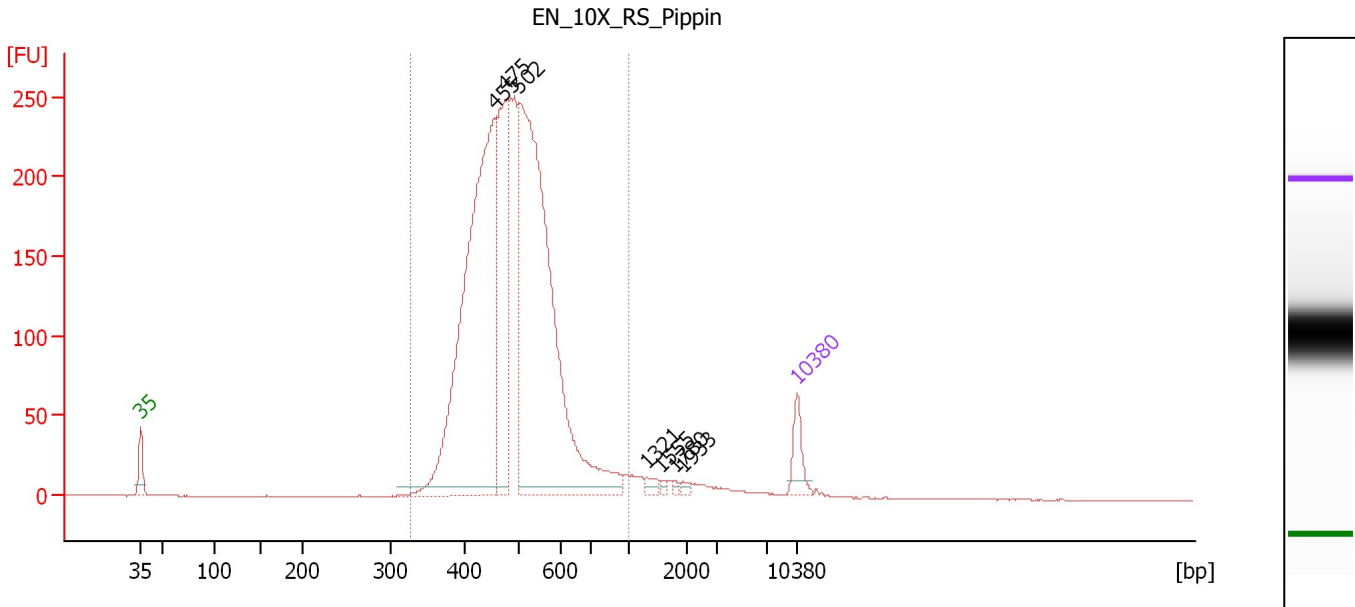
Region table for sample 8 : DTG 167 Pippin

| From [bp] | To [bp] | Average Size [bp] | Corr. Area | Conc. [pg/μl] | Molarity [pmol/l] | Co % of lor Total | Size distribution in CV [%] |
|-----------|---------|-------------------|------------|---------------|-------------------|-------------------|-----------------------------|
| 330 | 1,636 | 557 | 2,537.1 | 4,362.35 | 12,757.0 | 98 | 29.9 |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-03-14\2018-03-14_003.xad

Created: 3/14/2018 4:23:43 PM
 Modified: 3/14/2018 5:19:42 PM

Electropherogram Summary Continued ...



Overall Results for sample 9 : EN_10X_RS_Pippin

Number of peaks found: 7 Corr. Area 1: 2,989.7
 Noise: 0.2

Peak table for sample 9 : EN_10X_RS_Pippin

| 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 | 455 | 1,928.75 | 6,416.1 | | 80.70 |
| 3 | 475 | 585.61 | 1,866.6 | | 81.84 |
| 4 | 502 | 2,094.50 | 6,328.0 | | 83.32 |
| 5 | 1,321 | 22.28 | 25.6 | | 97.02 |
| 6 | 1,555 | 9.37 | 9.1 | | 98.50 |
| 7 | 1,780 | 8.06 | 6.9 | | 99.92 |
| 8 | 1,933 | 10.55 | 8.3 | | 100.89 |
| 9 | 10,380 | 75.00 | 10.9 | Upper Marker | 113.00 |

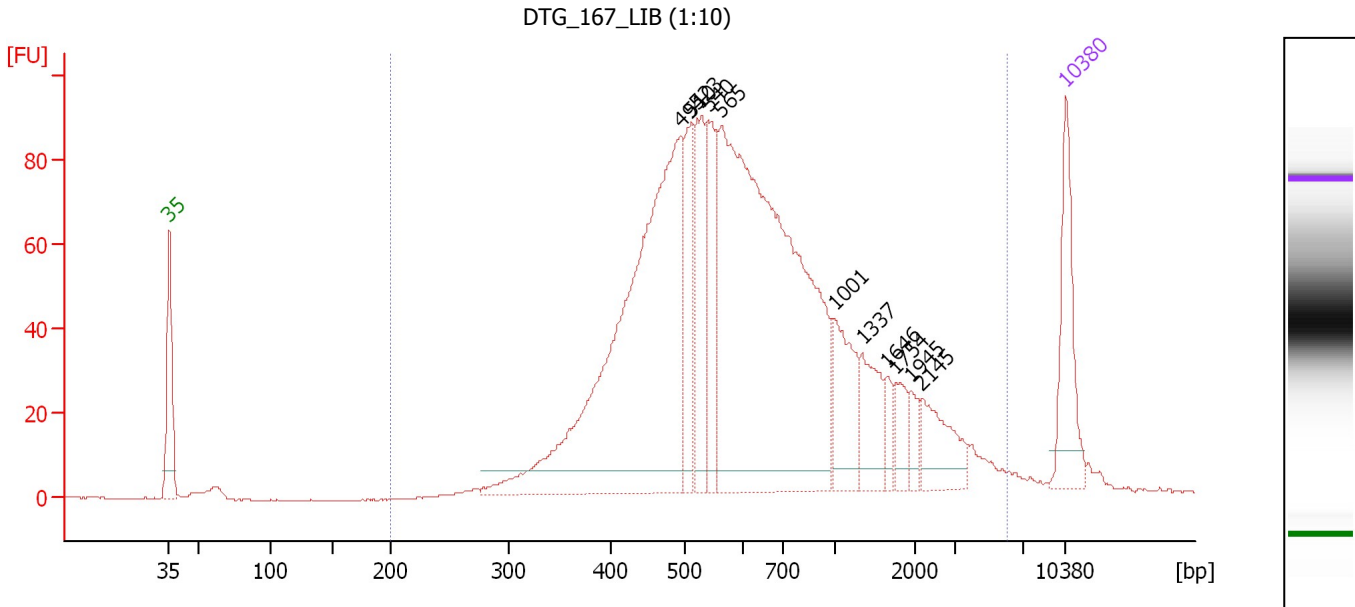
Region table for sample 9 : EN_10X_RS_Pippin

| From [bp] | To [bp] | Average Size [bp] | Corr. Area | Conc. [pg/μl] | Molarity [pmol/l] | Co % of Ior Total | Size distribution in CV [%] |
|-----------|---------|-------------------|------------|---------------|-------------------|-------------------|-----------------------------|
| 329 | 1,000 | 497 | 2,989.7 | 5,168.47 | 16,276.7 | 95 | 17.6 |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-03-14\2018-03-14_003.xad

Created: 3/14/2018 4:23:43 PM
 Modified: 3/14/2018 5:19:42 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : DTG 167 LIB (1:10)

Number of peaks found: 11 Corr. Area 1: 1,790.7
 Noise: 0.2

Peak table for sample 10 : DTG 167 LIB (1:10)

| 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 | 494 | 669.89 | 2,054.9 | | 82.90 |
| 3 | 510 | 91.00 | 270.3 | | 83.70 |
| 4 | 523 | 118.98 | 344.9 | | 84.28 |
| 5 | 540 | 101.36 | 284.2 | | 85.08 |
| 6 | 565 | 753.74 | 2,023.0 | | 86.17 |
| 7 | 1,001 | 76.76 | 116.2 | | 95.00 |
| 8 | 1,337 | 56.54 | 64.1 | | 97.12 |
| 9 | 1,646 | 18.32 | 16.9 | | 99.07 |
| 10 | 1,754 | 24.82 | 21.4 | | 99.76 |
| 11 | 1,945 | 16.09 | 12.5 | | 100.96 |
| 12 | 2,145 | 51.49 | 36.4 | | 101.76 |
| 13 | 10,380 | 75.00 | 10.9 | Upper Marker | 113.00 |

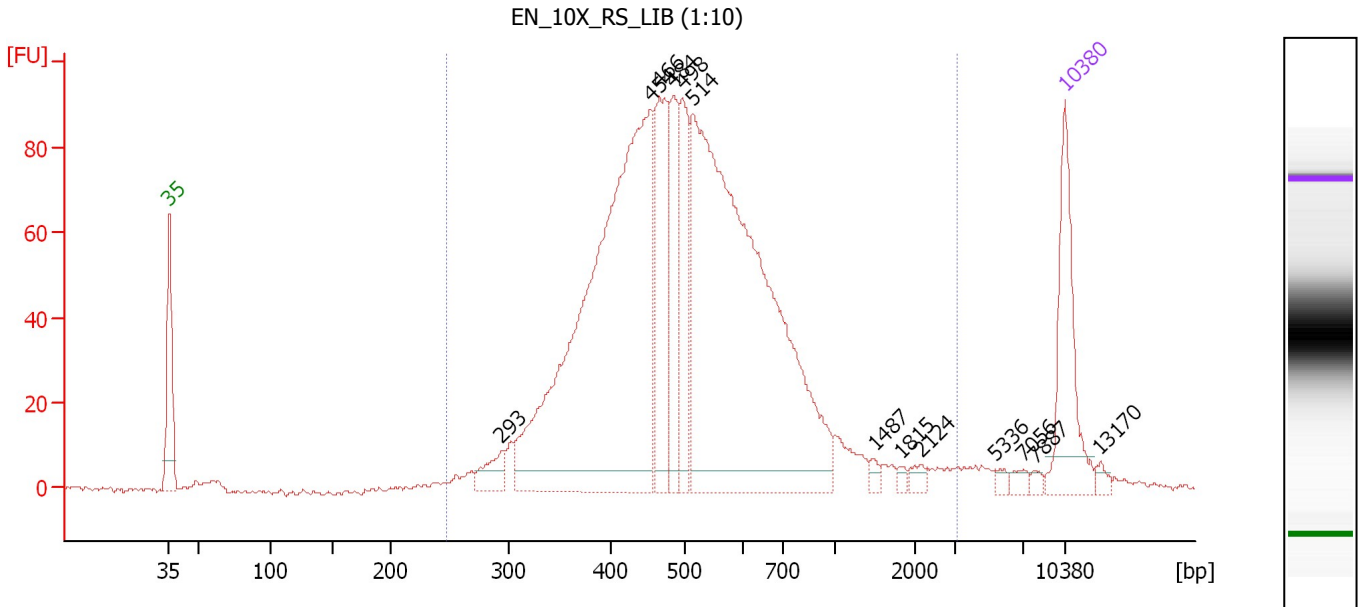
Region table for sample 10 : DTG 167 LIB (1:10)

| From [bp] | To [bp] | Average Size [bp] | Corr. Area | Conc. [pg/μl] | Molarity [pmol/l] | Co % of lor Total | Size distribution in CV [%] |
|-----------|---------|-------------------|------------|---------------|-------------------|-------------------|-----------------------------|
| 200 | 6,020 | 831 | 1,790.7 | 2,063.43 | 5,445.4 | 98 | 86.5 |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2018-03-14\2018-03-14_003.xad

Created: 3/14/2018 4:23:43 PM
 Modified: 3/14/2018 5:19:42 PM

Electropherogram Summary Continued ...



Overall Results for sample 11 : EN 10X RS LIB (1:10)

Number of peaks found: 13 Corr. Area 1: 1,712.7
 Noise: 0.7

Peak table for sample 11 : EN 10X RS LIB (1:10)

| 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 | 293 | 26.26 | 135.6 | | 68.95 |
| 3 | 454 | 638.55 | 2,132.9 | | 80.59 |
| 4 | 466 | 128.59 | 418.4 | | 81.29 |
| 5 | 484 | 82.91 | 259.6 | | 82.32 |
| 6 | 498 | 86.80 | 264.1 | | 83.13 |
| 7 | 514 | 672.17 | 1,981.5 | | 83.88 |
| 8 | 1,487 | 4.86 | 5.0 | | 98.07 |
| 9 | 1,815 | 3.46 | 2.9 | | 100.14 |
| 10 | 2,124 | 6.51 | 4.6 | | 101.70 |
| 11 | 5,336 | 4.27 | 1.2 | | 107.52 |
| 12 | 7,056 | 5.76 | 1.2 | | 109.77 |
| 13 | 7,887 | 3.61 | 0.7 | | 110.58 |
| 14 | 10,380 | 75.00 | 10.9 | Upper Marker | 113.00 |
| 15 | 13,170 | 0.00 | 0.0 | | 115.71 |

Region table for sample 11 : EN 10X RS LIB (1:10)

| From [bp] | To [bp] | Average Size [bp] | Corr. Area | Conc. [pg/μl] | Molarity [pmol/l] | Co % of lor Total | Size distribution in CV [%] |
|-----------|---------|-------------------|------------|---------------|-------------------|-------------------|-----------------------------|
| 248 | 3,033 | 563 | 1,712.7 | 1,703.43 | 5,405.0 | 96 | 54.8 |

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2018-03-14\2018-03-14_003.xad

Created: 3/14/2018 4:23:43 PM
Modified: 3/14/2018 5:19:42 PM

Gel Image

