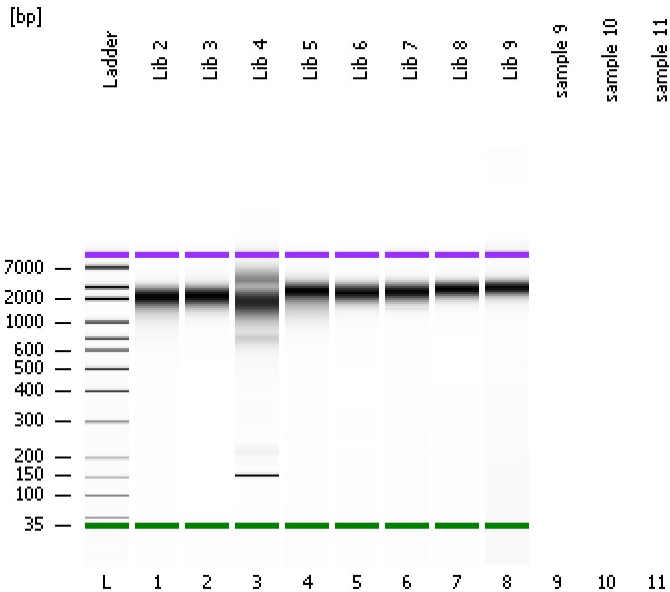


Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2019-10-21\2019-10-21_002.xad

Created: 10/21/2019 3:38:31 PM
Modified: 10/21/2019 4:16:14 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

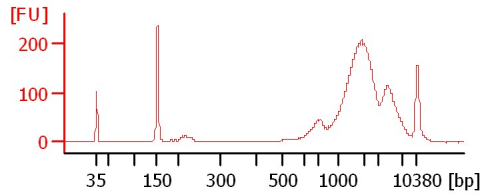
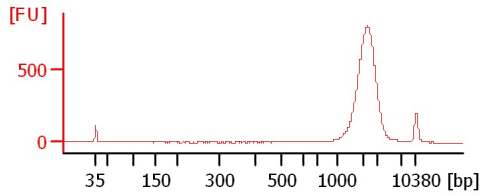
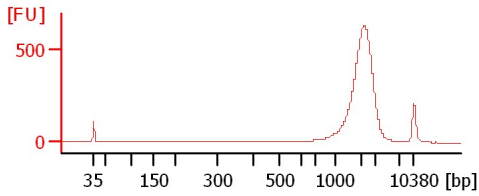
Chip Information:

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

Lib 2

Lib 3

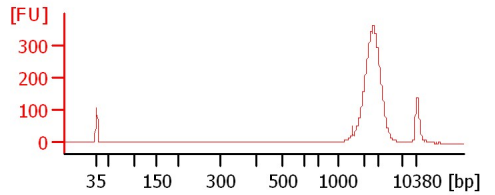
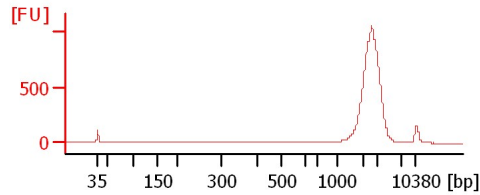
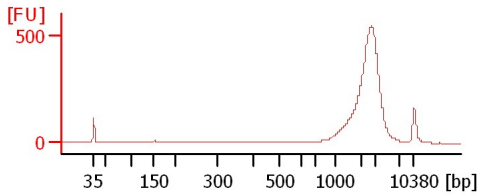
Lib 4



Lib 5

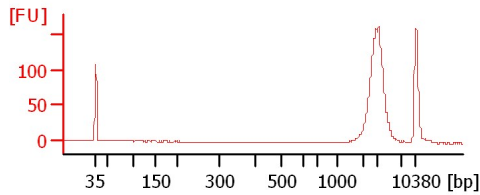
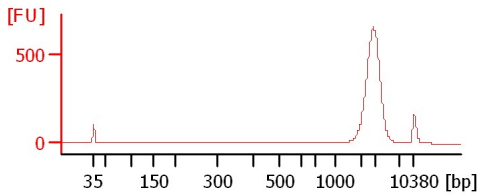
Lib 6

Lib 7



Lib 8

Lib 9



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-10-21\2019-10-21_002.xad

Created: 10/21/2019 3:38:31 PM
 Modified: 10/21/2019 4:16:14 PM

Electrophoresis File Run Summary (Chip Summary)

| Sample Name | Sample Comment | Rest. Digest | Status | Observation | Result Label | Result Color |
|-------------|----------------|--------------------------|--------|-------------|--------------|--------------|
| Lib 2 | | <input type="checkbox"/> | ✓ | | | |
| Lib 3 | | <input type="checkbox"/> | ✓ | | | |
| Lib 4 | | <input type="checkbox"/> | ✓ | | | |
| Lib 5 | | <input type="checkbox"/> | ✓ | | | |
| Lib 6 | | <input type="checkbox"/> | ✓ | | | |
| Lib 7 | | <input type="checkbox"/> | ✓ | | | |
| Lib 8 | | <input type="checkbox"/> | ✓ | | | |
| Lib 9 | | <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:\... bioanalyzer\2100 expert\data\2019-10-21\2019-10-21_002.xad

Created: 10/21/2019 3:38:31 PM
Modified: 10/21/2019 4:16:14 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

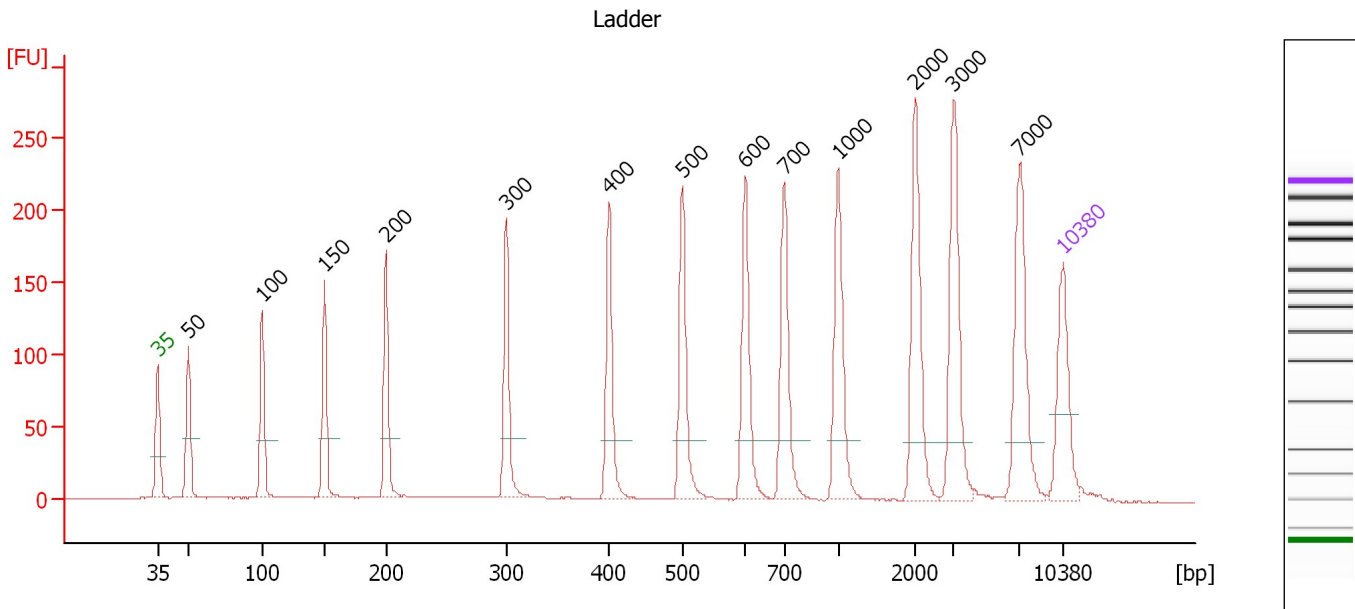
Ladder

| 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:\... bioanalyzer\2100 expert\data\2019-10-21\2019-10-21_002.xad

Created: 10/21/2019 3:38:31 PM
 Modified: 10/21/2019 4:16:14 PM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.3

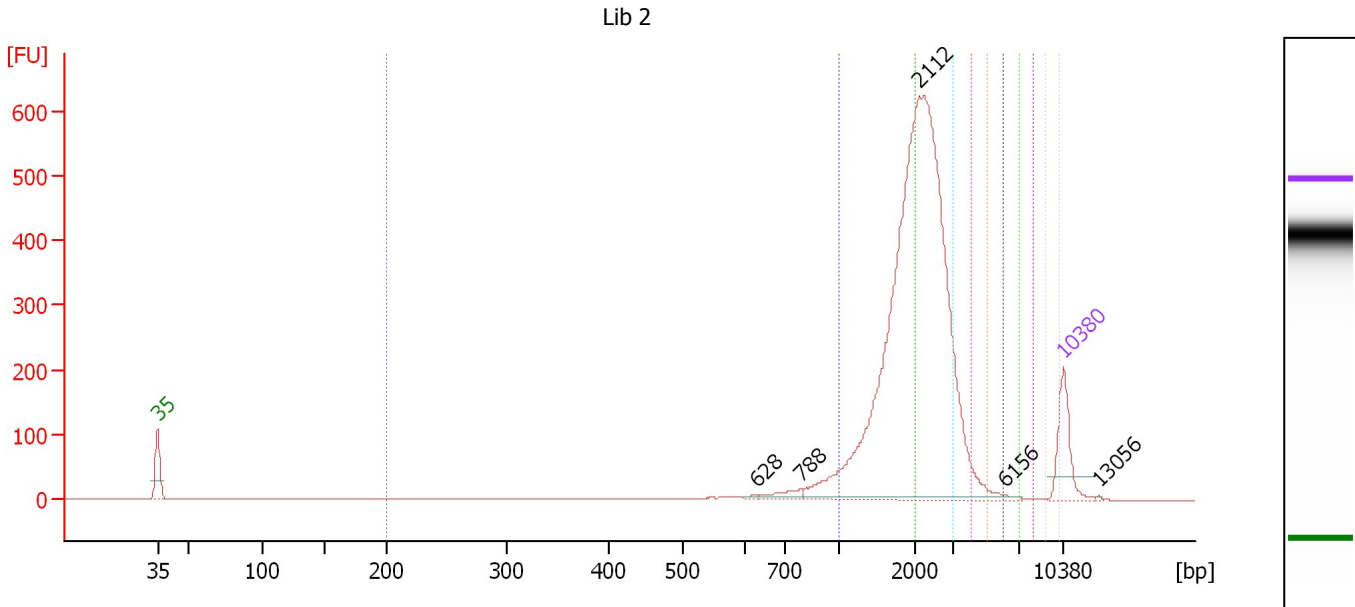
Peak table for Ladder

| 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 | 45.36 |
| 3 | 100 | 150.00 | 2,272.7 | Ladder Peak | 51.07 |
| 4 | 150 | 150.00 | 1,515.2 | Ladder Peak | 55.92 |
| 5 | 200 | 150.00 | 1,136.4 | Ladder Peak | 60.68 |
| 6 | 300 | 150.00 | 757.6 | Ladder Peak | 69.98 |
| 7 | 400 | 150.00 | 568.2 | Ladder Peak | 77.91 |
| 8 | 500 | 150.00 | 454.5 | Ladder Peak | 83.53 |
| 9 | 600 | 150.00 | 378.8 | Ladder Peak | 88.43 |
| 10 | 700 | 150.00 | 324.7 | Ladder Peak | 91.42 |
| 11 | 1,000 | 150.00 | 227.3 | Ladder Peak | 95.59 |
| 12 | 2,000 | 150.00 | 113.6 | Ladder Peak | 101.53 |
| 13 | 3,000 | 150.00 | 75.8 | Ladder Peak | 104.52 |
| 14 | 7,000 | 150.00 | 32.5 | Ladder Peak | 109.60 |
| 15 | 10,380 | 75.00 | 10.9 | Upper Marker | 113.00 |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-10-21\2019-10-21_002.xad

Created: 10/21/2019 3:38:31 PM
 Modified: 10/21/2019 4:16:14 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : Lib 2

| | | | |
|------------------------|---------|----------------|------|
| Number of peaks found: | 5 | Corr. Area 5: | 44.1 |
| Noise: | 0.2 | Corr. Area 6: | 15.4 |
| Corr. Area 1: | 168.6 | Corr. Area 7: | 8.2 |
| Corr. Area 2: | 1,395.3 | Corr. Area 8: | 3.7 |
| Corr. Area 3: | 1,506.6 | Corr. Area 9: | 2.0 |
| Corr. Area 4: | 173.6 | Corr. Area 10: | 0.3 |

Peak table for sample 1 : Lib 2

| 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 | 628 | 3.59 | 8.7 | | 89.27 |
| 3 | 788 | 19.52 | 37.5 | | 92.65 |
| 4 | 2,112 | 1,277.37 | 916.3 | | 101.87 |
| 5 | 6,156 | 3.45 | 0.8 | | 108.53 |
| 6 | 10,380 | 75.00 | 10.9 | Upper Marker | 113.00 |
| 7 | 13,056 | 0.00 | 0.0 | | 115.69 |

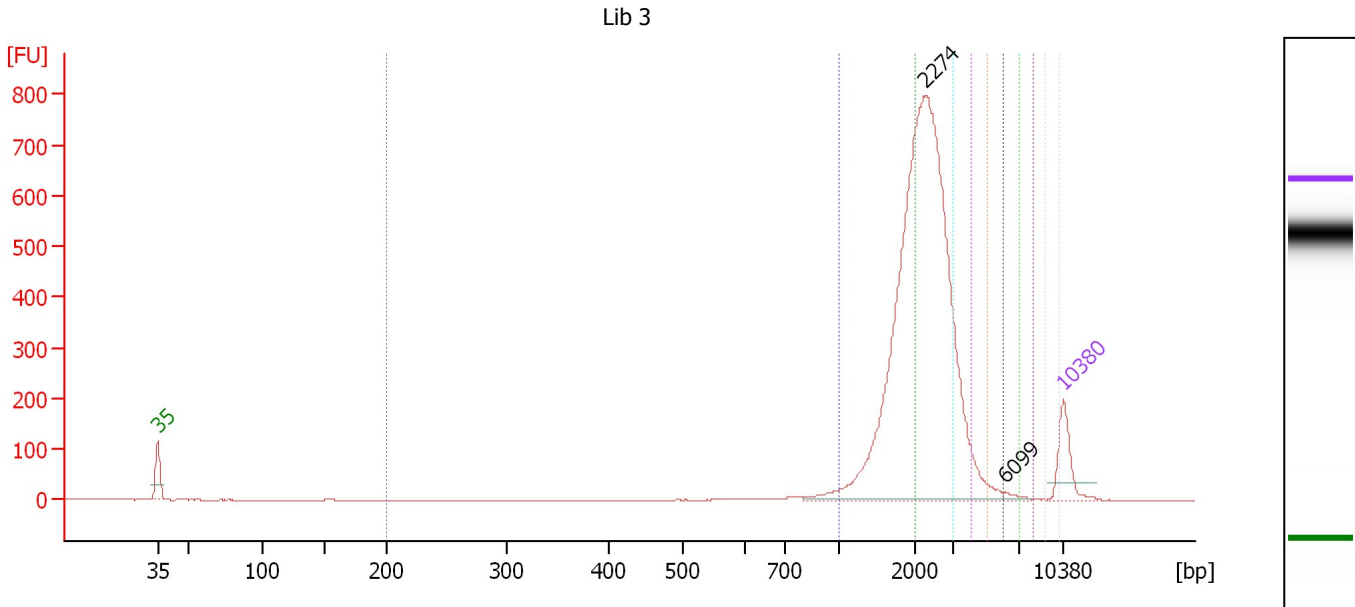
Region table for sample 1 : Lib 2

| From [bp] | To [bp] | Average Size [bp] | Conc. [pg/μl] | Corr. Area | Molarity [pmol/l] | Co % of lor Total | Size distribution in CV [%] |
|-----------|---------|-------------------|---------------|------------|-------------------|-------------------|-----------------------------|
| 200 | 1,000 | 775 | 82.73 | 168.6 | 177.5 | 5 | 21.9 |
| 1,000 | 2,000 | 1,701 | 578.03 | 1,395.3 | 514.7 | 42 | 14.3 |
| 2,000 | 3,000 | 2,419 | 603.72 | 1,506.6 | 378.1 | 45 | 11.2 |
| 3,000 | 4,000 | 3,346 | 69.85 | 173.6 | 31.6 | 5 | 8.4 |
| 4,000 | 5,000 | 4,365 | 17.87 | 44.1 | 6.2 | 1 | 6.7 |
| 5,000 | 6,000 | 5,410 | 6.28 | 15.4 | 1.8 | 0 | 5.6 |
| 6,000 | 7,000 | 6,414 | 3.37 | 8.2 | 0.8 | 0 | 4.5 |
| 7,000 | 8,000 | 7,397 | 1.52 | 3.7 | 0.3 | 0 | 4.3 |
| 8,000 | 9,000 | 8,445 | 0.82 | 2.0 | 0.1 | 0 | 3.6 |
| 9,000 | 10,000 | 9,789 | 0.11 | 0.3 | 0.0 | 0 | 1.9 |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-10-21\2019-10-21_002.xad

Created: 10/21/2019 3:38:31 PM
 Modified: 10/21/2019 4:16:14 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : Lib 3

| | | | |
|------------------------|---------|----------------|------|
| Number of peaks found: | 2 | Corr. Area 5: | 79.8 |
| Noise: | 0.3 | Corr. Area 6: | 28.6 |
| Corr. Area 1: | 66.1 | Corr. Area 7: | 16.3 |
| Corr. Area 2: | 1,367.2 | Corr. Area 8: | 6.2 |
| Corr. Area 3: | 2,009.5 | Corr. Area 9: | 3.0 |
| Corr. Area 4: | 279.7 | Corr. Area 10: | 0.1 |

Peak table for sample 2 : Lib 3

| 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 | 2,274 | 1,538.97 | 1,025.2 | | 102.35 |
| 3 | 6,099 | 8.67 | 2.2 | | 108.46 |
| 4 | 10,380 | 75.00 | 10.9 | Upper Marker | 113.00 |

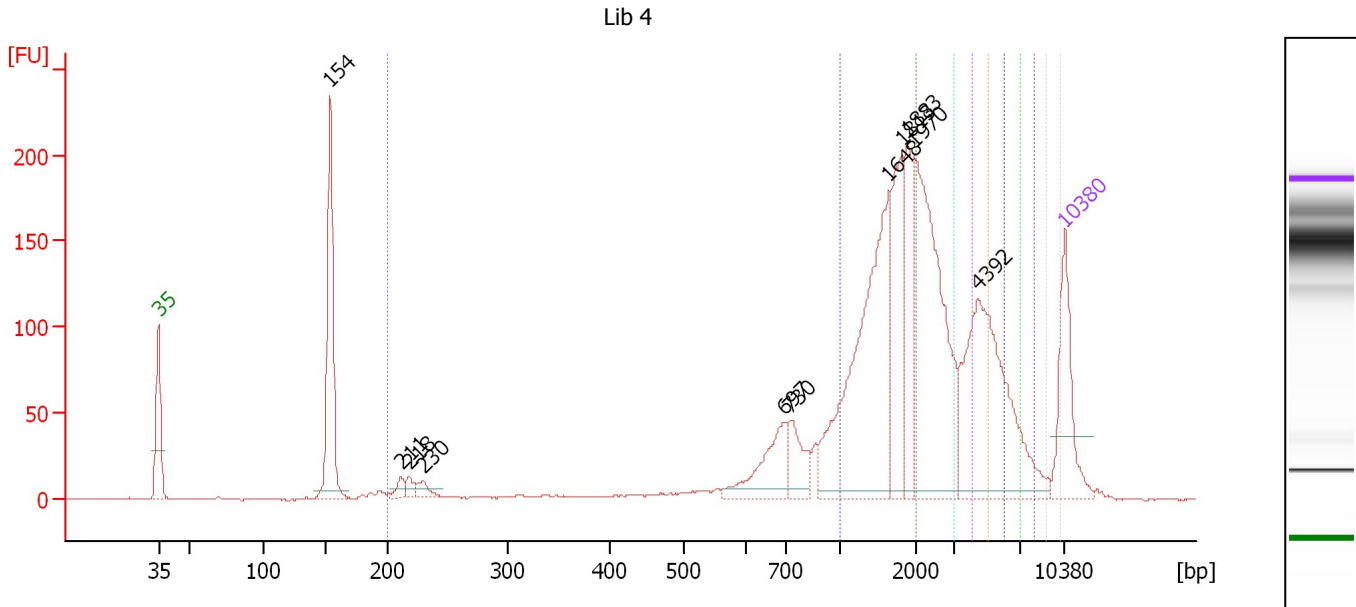
Region table for sample 2 : Lib 3

| From [bp] | To [bp] | Average Size [bp] | Conc. [pg/μl] | Corr. Area | Molarity [pmol/l] | Co % of lor Total | Size distribution in CV [%] |
|-----------|---------|-------------------|---------------|------------|-------------------|-------------------|-----------------------------|
| 200 | 1,000 | 789 | 32.78 | 66.1 | 67.8 | 2 | 20.9 |
| 1,000 | 2,000 | 1,749 | 572.56 | 1,367.2 | 496.1 | 35 | 11.9 |
| 2,000 | 3,000 | 2,432 | 818.58 | 2,009.5 | 509.9 | 52 | 11.3 |
| 3,000 | 4,000 | 3,357 | 114.43 | 279.7 | 51.7 | 7 | 8.5 |
| 4,000 | 5,000 | 4,360 | 32.88 | 79.8 | 11.4 | 2 | 6.7 |
| 5,000 | 6,000 | 5,403 | 11.88 | 28.6 | 3.3 | 1 | 5.3 |
| 6,000 | 7,000 | 6,403 | 6.82 | 16.3 | 1.6 | 0 | 4.6 |
| 7,000 | 8,000 | 7,393 | 2.59 | 6.2 | 0.5 | 0 | 4.0 |
| 8,000 | 9,000 | 8,373 | 1.21 | 3.0 | 0.2 | 0 | 3.5 |
| 9,000 | 10,000 | 9,801 | 0.06 | 0.1 | 0.0 | 0 | 1.8 |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-10-21\2019-10-21_002.xad

Created: 10/21/2019 3:38:31 PM
 Modified: 10/21/2019 4:16:14 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : Lib 4

| | | | |
|------------------------|-------|----------------|-------|
| Number of peaks found: | 11 | Corr. Area 5: | 138.5 |
| Noise: | 0.4 | Corr. Area 6: | 108.2 |
| Corr. Area 1: | 403.8 | Corr. Area 7: | 66.7 |
| Corr. Area 2: | 865.2 | Corr. Area 8: | 29.1 |
| Corr. Area 3: | 428.8 | Corr. Area 9: | 14.8 |
| Corr. Area 4: | 101.8 | Corr. Area 10: | 3.8 |

Peak table for sample 3 : Lib 4

| 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 | 154 | 216.12 | 2,129.2 | | 56.28 |
| 3 | 211 | 12.48 | 89.5 | | 61.74 |
| 4 | 218 | 11.35 | 79.0 | | 62.34 |
| 5 | 230 | 14.44 | 95.2 | | 63.46 |
| 6 | 697 | 72.69 | 158.0 | | 91.33 |
| 7 | 730 | 43.43 | 90.1 | | 91.84 |
| 8 | 1,648 | 283.01 | 260.2 | | 99.44 |
| 9 | 1,813 | 104.09 | 87.0 | | 100.42 |
| 10 | 1,883 | 73.27 | 59.0 | | 100.84 |
| 11 | 1,970 | 249.70 | 192.1 | | 101.35 |
| 12 | 4,392 | 226.19 | 78.0 | | 106.29 |
| 13 | 10,380 | 75.00 | 10.9 | Upper Marker | 113.00 |







Region table for sample 3 : Lib 4

| From [bp] | To [bp] | Average Size [bp] | Conc. [pg/μl] | Corr. Area | Molarity [pmol/l] | Co % of lor Total | Size distribution in CV [%] |
|-----------|---------|-------------------|---------------|------------|-------------------|-------------------|-----------------------------|
| 200 | 1,000 | 668 | 267.82 | 403.8 | 842.5 | 17 | 33.3 |
| 1,000 | 2,000 | 1,596 | 458.64 | 865.2 | 435.5 | 36 | 16.7 |
| 2,000 | 3,000 | 2,410 | 217.14 | 428.8 | 136.5 | 18 | 11.6 |
| 3,000 | 4,000 | 3,475 | 51.84 | 101.8 | 22.6 | 4 | 8.6 |

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2019-10-21\2019-10-21_002.xad

Created: 10/21/2019 3:38:31 PM
Modified: 10/21/2019 4:16:14 PM

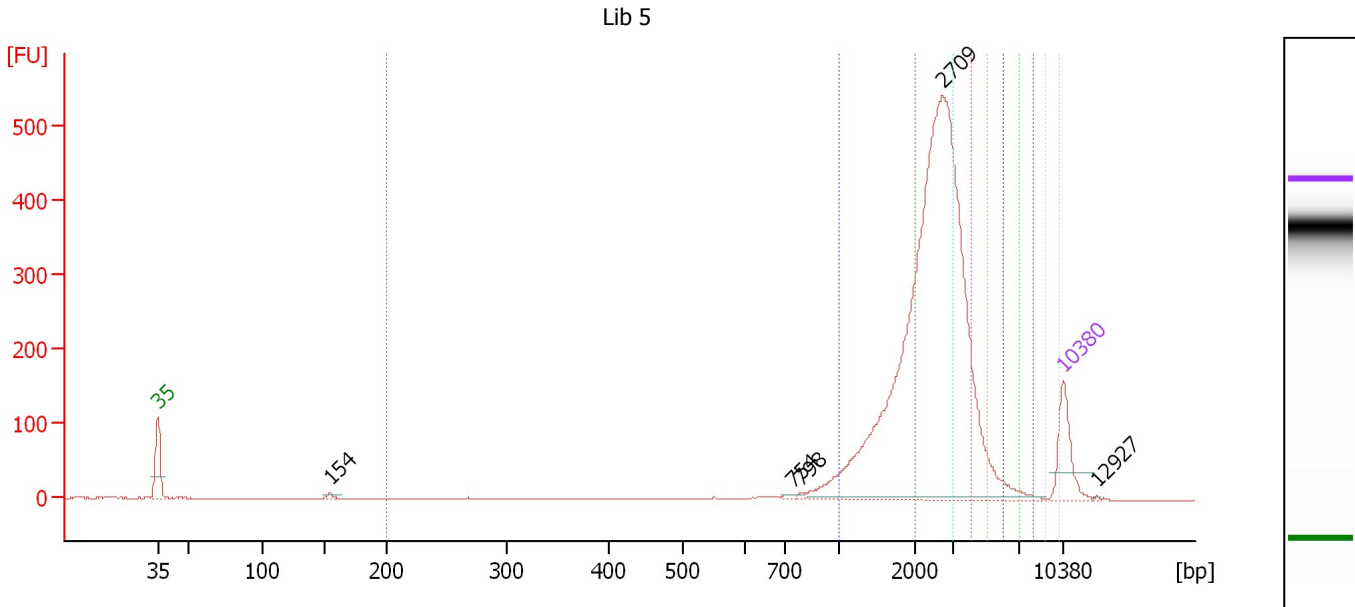
Electropherogram Summary Continued ...**... Region table for sample 3 : Lib 4**

| From [bp] | To [bp] | Average Size [bp] | Conc. [pg/μl] | Corr. Area | Molarity [pmol/l] | Co % of lor Total | Size distribution in CV [%] |
|------------------|----------------|--------------------------|-------------------------------------|-------------------|--------------------------|---|------------------------------------|
| 4,000 | 5,000 | 4,472 | 71.02 | 138.5 | 24.1 |  6 | 6.7 |
| 5,000 | 6,000 | 5,438 | 55.89 | 108.2 | 15.6 |  4 | 5.4 |
| 6,000 | 7,000 | 6,416 | 34.68 | 66.7 | 8.2 |  3 | 4.6 |
| 7,000 | 8,000 | 7,400 | 15.08 | 29.1 | 3.1 |  1 | 4.1 |
| 8,000 | 9,000 | 8,416 | 7.52 | 14.8 | 1.4 |  1 | 3.5 |
| 9,000 | 10,000 | 9,649 | 1.88 | 3.8 | 0.3 |  0 | 3.1 |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-10-21\2019-10-21_002.xad

Created: 10/21/2019 3:38:31 PM
 Modified: 10/21/2019 4:16:14 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : Lib 5

| | | | |
|------------------------|---------|----------------|-------|
| Number of peaks found: | 5 | Corr. Area 5: | 155.0 |
| Noise: | 0.3 | Corr. Area 6: | 48.7 |
| Corr. Area 1: | 97.6 | Corr. Area 7: | 20.7 |
| Corr. Area 2: | 718.7 | Corr. Area 8: | 8.9 |
| Corr. Area 3: | 1,359.3 | Corr. Area 9: | 3.9 |
| Corr. Area 4: | 428.9 | Corr. Area 10: | 0.3 |

Peak table for sample 4 : Lib 5

| 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 | 154 | 7.30 | 71.6 | | 56.34 |
| 3 | 754 | 4.89 | 9.8 | | 92.17 |
| 4 | 798 | 3.51 | 6.7 | | 92.78 |
| 5 | 2,709 | 1,385.48 | 774.9 | | 103.65 |
| 6 | 10,380 | 75.00 | 10.9 | Upper Marker | 113.00 |
| 7 | 12,927 | 0.00 | 0.0 | | 115.56 |

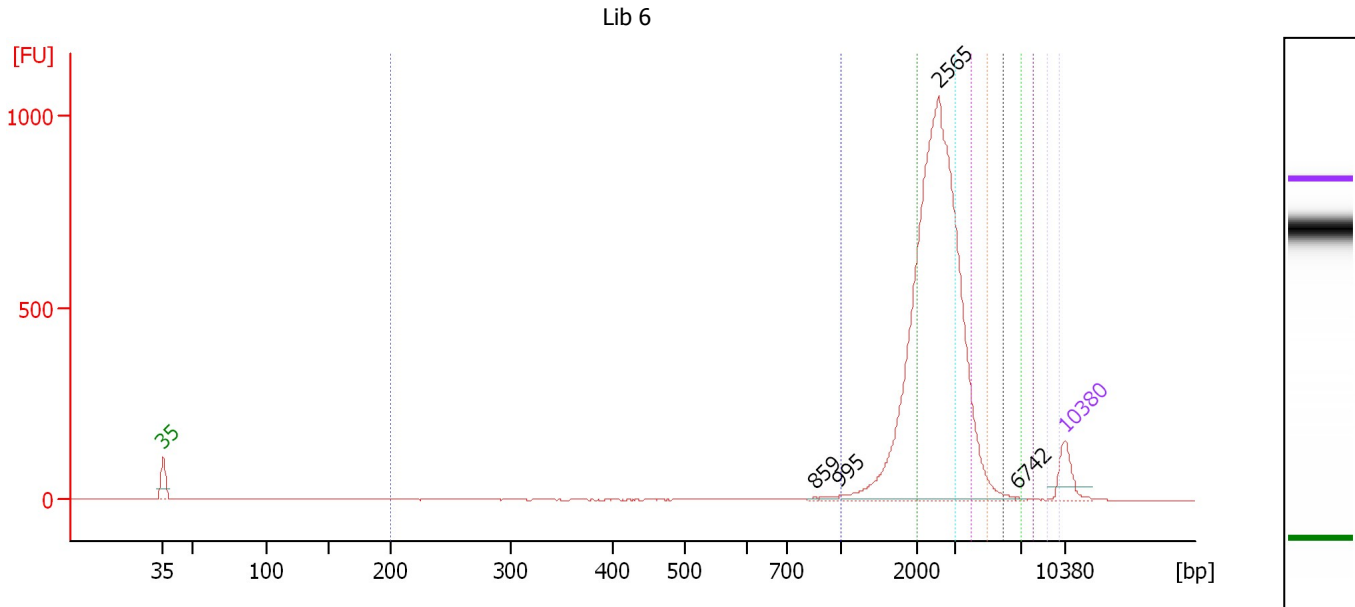
Region table for sample 4 : Lib 5

| From [bp] | To [bp] | Average Size [bp] | Conc. [pg/μl] | Corr. Area | Molarity [pmol/l] | Co % of lor Total | Size distribution in CV [%] |
|-----------|---------|-------------------|---------------|------------|-------------------|-------------------|-----------------------------|
| 200 | 1,000 | 778 | 60.55 | 97.6 | 142.5 | 3 | 25.9 |
| 1,000 | 2,000 | 1,652 | 374.97 | 718.7 | 344.0 | 25 | 16.0 |
| 2,000 | 3,000 | 2,523 | 682.22 | 1,359.3 | 409.7 | 47 | 11.0 |
| 3,000 | 4,000 | 3,390 | 216.20 | 428.9 | 96.6 | 15 | 8.6 |
| 4,000 | 5,000 | 4,354 | 78.66 | 155.0 | 27.4 | 5 | 6.7 |
| 5,000 | 6,000 | 5,382 | 24.89 | 48.7 | 7.0 | 2 | 5.5 |
| 6,000 | 7,000 | 6,401 | 10.64 | 20.7 | 2.5 | 1 | 4.5 |
| 7,000 | 8,000 | 7,395 | 4.60 | 8.9 | 0.9 | 0 | 4.2 |
| 8,000 | 9,000 | 8,362 | 1.94 | 3.9 | 0.4 | 0 | 3.3 |
| 9,000 | 10,000 | 9,787 | 0.13 | 0.3 | 0.0 | 0 | 1.9 |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-10-21\2019-10-21_002.xad

Created: 10/21/2019 3:38:31 PM
 Modified: 10/21/2019 4:16:14 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : Lib 6

| | | | |
|------------------------|---------|----------------|-------|
| Number of peaks found: | 4 | Corr. Area 5: | 178.5 |
| Noise: | 0.3 | Corr. Area 6: | 39.2 |
| Corr. Area 1: | 63.3 | Corr. Area 7: | 13.1 |
| Corr. Area 2: | 824.4 | Corr. Area 8: | 5.1 |
| Corr. Area 3: | 2,629.2 | Corr. Area 9: | 2.9 |
| Corr. Area 4: | 625.3 | Corr. Area 10: | 0.1 |

Peak table for sample 5 : Lib 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 | 859 | 3.20 | 5.6 | | 93.64 |
| 3 | 995 | 7.74 | 11.8 | | 95.52 |
| 4 | 2,565 | 2,092.42 | 1,235.9 | | 103.22 |
| 5 | 6,742 | 2.89 | 0.6 | | 109.27 |
| 6 | 10,380 | 75.00 | 10.9 | Upper Marker | 113.00 |

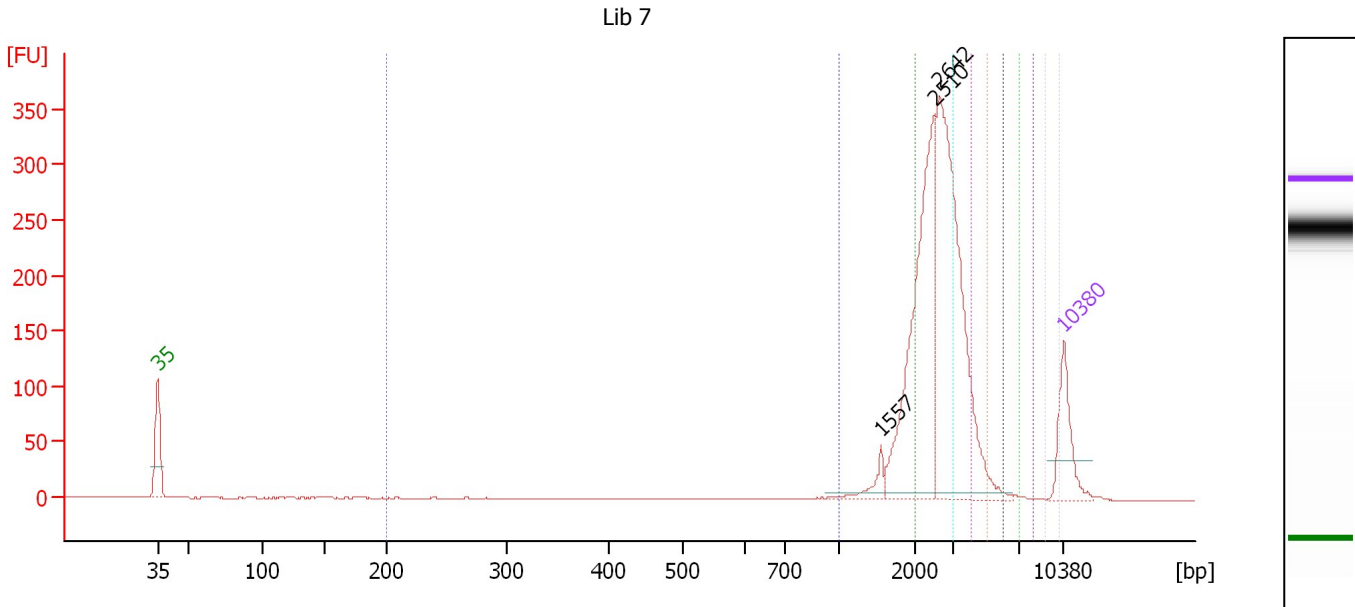
Region table for sample 5 : Lib 6

| From [bp] | To [bp] | Average Size [bp] | Conc. [pg/μl] | Corr. Area | Molarity [pmol/l] | Co % of Ior Total | Size distribution in CV [%] |
|-----------|---------|-------------------|---------------|------------|-------------------|-------------------|-----------------------------|
| 200 | 1,000 | 706 | 39.05 | 63.3 | 100.2 | 1 | 29.1 |
| 1,000 | 2,000 | 1,784 | 412.63 | 824.4 | 350.4 | 19 | 11.3 |
| 2,000 | 3,000 | 2,500 | 1,285.67 | 2,629.2 | 779.2 | 60 | 11.1 |
| 3,000 | 4,000 | 3,382 | 307.13 | 625.3 | 137.6 | 14 | 8.4 |
| 4,000 | 5,000 | 4,321 | 88.26 | 178.5 | 30.9 | 4 | 6.4 |
| 5,000 | 6,000 | 5,344 | 19.54 | 39.2 | 5.5 | 1 | 5.6 |
| 6,000 | 7,000 | 6,414 | 6.58 | 13.1 | 1.6 | 0 | 4.6 |
| 7,000 | 8,000 | 7,404 | 2.57 | 5.1 | 0.5 | 0 | 4.1 |
| 8,000 | 9,000 | 8,393 | 1.42 | 2.9 | 0.3 | 0 | 3.4 |
| 9,000 | 10,000 | 9,764 | 0.04 | 0.1 | 0.0 | 0 | 2.2 |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-10-21\2019-10-21_002.xad

Created: 10/21/2019 3:38:31 PM
 Modified: 10/21/2019 4:16:14 PM

Electropherogram Summary Continued ...



Overall Results for sample 6 : Lib 7

| | | | |
|------------------------|-------|----------------|------|
| Number of peaks found: | 3 | Corr. Area 5: | 77.7 |
| Noise: | 0.2 | Corr. Area 6: | 17.9 |
| Corr. Area 1: | 19.4 | Corr. Area 7: | 5.9 |
| Corr. Area 2: | 239.2 | Corr. Area 8: | 2.4 |
| Corr. Area 3: | 904.0 | Corr. Area 9: | 1.0 |
| Corr. Area 4: | 235.9 | Corr. Area 10: | 0.0 |

Peak table for sample 6 : Lib 7

| 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 | 1,557 | 24.17 | 23.5 | | 98.90 |
| 3 | 2,510 | 367.45 | 221.8 | | 103.06 |
| 4 | 2,642 | 458.57 | 262.9 | | 103.45 |
| 5 | 10,380 | 75.00 | 10.9 | Upper Marker | 113.00 |

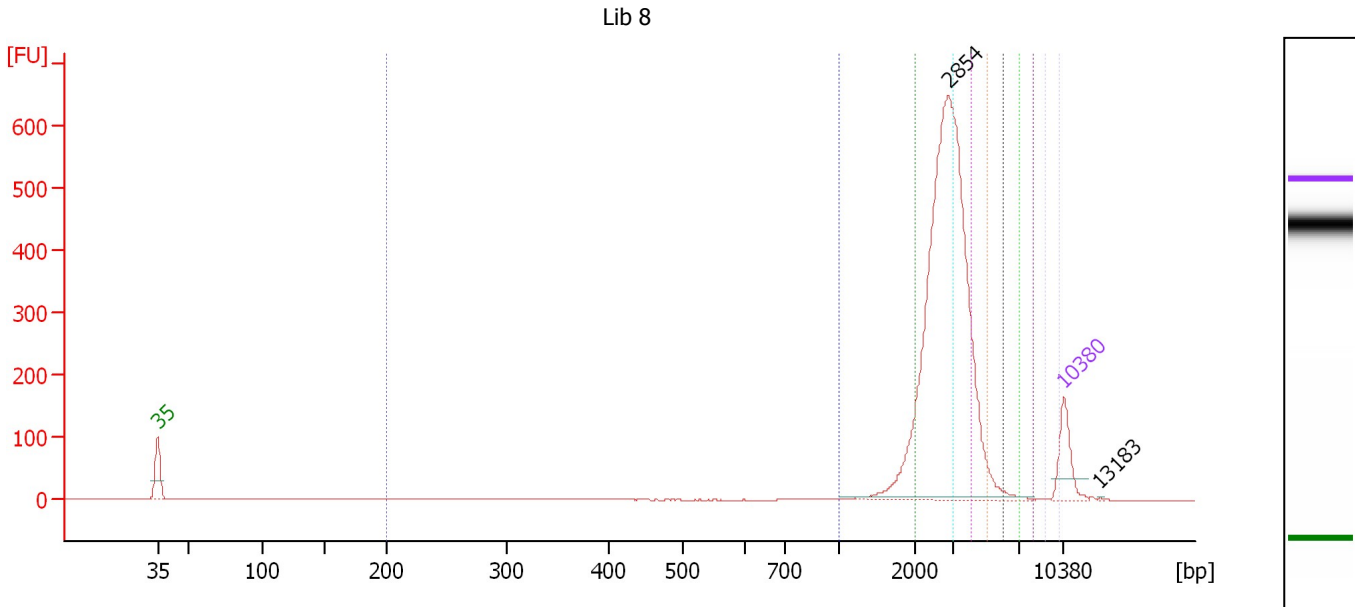
Region table for sample 6 : Lib 7

| From [bp] | To [bp] | Average Size [bp] | Conc. [pg/μl] | Corr. Area | Molarity [pmol/l] | Co % of Ior Total | Size distribution in CV [%] |
|-----------|---------|-------------------|---------------|------------|-------------------|-------------------|-----------------------------|
| 200 | 1,000 | 573 | 15.26 | 19.4 | 56.5 | 1 | 45.0 |
| 1,000 | 2,000 | 1,789 | 141.06 | 239.2 | 119.5 | 16 | 10.7 |
| 2,000 | 3,000 | 2,520 | 521.23 | 904.0 | 313.4 | 60 | 11.0 |
| 3,000 | 4,000 | 3,389 | 136.63 | 235.9 | 61.1 | 16 | 8.3 |
| 4,000 | 5,000 | 4,329 | 45.30 | 77.7 | 15.9 | 5 | 6.7 |
| 5,000 | 6,000 | 5,354 | 10.50 | 17.9 | 3.0 | 1 | 5.5 |
| 6,000 | 7,000 | 6,407 | 3.51 | 5.9 | 0.8 | 0 | 4.6 |
| 7,000 | 8,000 | 7,368 | 1.39 | 2.4 | 0.3 | 0 | 4.0 |
| 8,000 | 9,000 | 8,390 | 0.57 | 1.0 | 0.1 | 0 | 3.3 |
| 9,000 | 10,000 | 9,797 | 0.01 | 0.0 | 0.0 | 0 | 1.6 |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-10-21\2019-10-21_002.xad

Created: 10/21/2019 3:38:31 PM
 Modified: 10/21/2019 4:16:14 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : Lib 8

| | | | |
|------------------------|---------|----------------|-------|
| Number of peaks found: | 2 | Corr. Area 5: | 197.6 |
| Noise: | 0.2 | Corr. Area 6: | 38.9 |
| Corr. Area 1: | 2.8 | Corr. Area 7: | 11.3 |
| Corr. Area 2: | 142.6 | Corr. Area 8: | 4.1 |
| Corr. Area 3: | 1,307.2 | Corr. Area 9: | 1.9 |
| Corr. Area 4: | 588.3 | Corr. Area 10: | 0.5 |

Peak table for sample 7 : Lib 8

| 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 | 2,854 | 1,193.04 | 633.3 | | 104.09 |
| 3 | 10,380 | 75.00 | 10.9 | Upper Marker | 113.00 |
| 4 | 13,183 | 0.00 | 0.0 | | 115.82 |

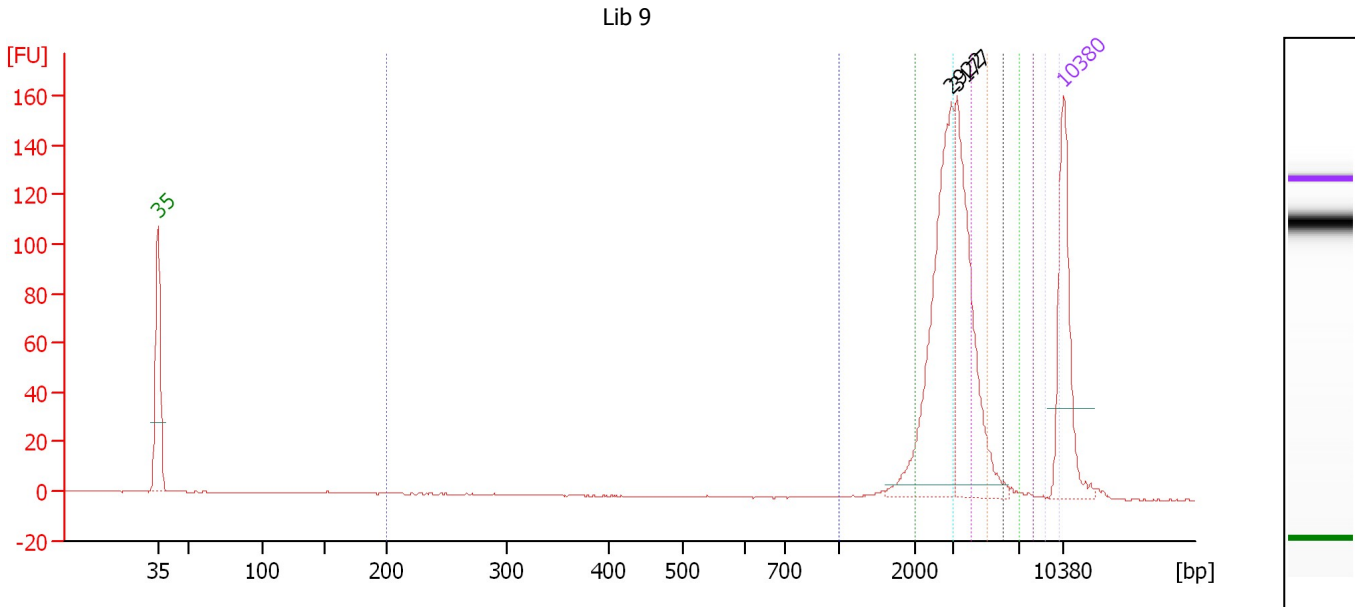
Region table for sample 7 : Lib 8

| From [bp] | To [bp] | Average Size [bp] | Conc. [pg/μl] | Corr. Area | Molarity [pmol/l] | Co % of Ior Total | Size distribution in CV [%] |
|-----------|---------|-------------------|---------------|------------|-------------------|-------------------|-----------------------------|
| 200 | 1,000 | 887 | 1.75 | 2.8 | 3.2 | 0 | 13.3 |
| 1,000 | 2,000 | 1,807 | 76.02 | 142.6 | 63.8 | 6 | 10.5 |
| 2,000 | 3,000 | 2,599 | 682.66 | 1,307.2 | 398.0 | 57 | 10.1 |
| 3,000 | 4,000 | 3,409 | 308.52 | 588.3 | 137.1 | 26 | 8.4 |
| 4,000 | 5,000 | 4,331 | 104.30 | 197.6 | 36.5 | 9 | 6.4 |
| 5,000 | 6,000 | 5,318 | 20.69 | 38.9 | 5.9 | 2 | 5.3 |
| 6,000 | 7,000 | 6,366 | 6.06 | 11.3 | 1.4 | 0 | 4.6 |
| 7,000 | 8,000 | 7,377 | 2.19 | 4.1 | 0.4 | 0 | 4.0 |
| 8,000 | 9,000 | 8,363 | 0.97 | 1.9 | 0.2 | 0 | 3.7 |
| 9,000 | 10,000 | 9,769 | 0.26 | 0.5 | 0.0 | 0 | 2.0 |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-10-21\2019-10-21_002.xad

Created: 10/21/2019 3:38:31 PM
 Modified: 10/21/2019 4:16:14 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : Lib 9

| | | | |
|------------------------|-------|----------------|------|
| Number of peaks found: | 2 | Corr. Area 5: | 61.5 |
| Noise: | 0.2 | Corr. Area 6: | 14.8 |
| Corr. Area 1: | 0.0 | Corr. Area 7: | 3.6 |
| Corr. Area 2: | 18.3 | Corr. Area 8: | 0.8 |
| Corr. Area 3: | 266.0 | Corr. Area 9: | 0.0 |
| Corr. Area 4: | 165.7 | Corr. Area 10: | 0.0 |

Peak table for sample 8 : Lib 9

| 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 | 2,922 | 151.87 | 78.8 | | 104.29 |
| 3 | 3,177 | 126.16 | 60.2 | | 104.75 |
| 4 | 10,380 | 75.00 | 10.9 | Upper Marker | 113.00 |

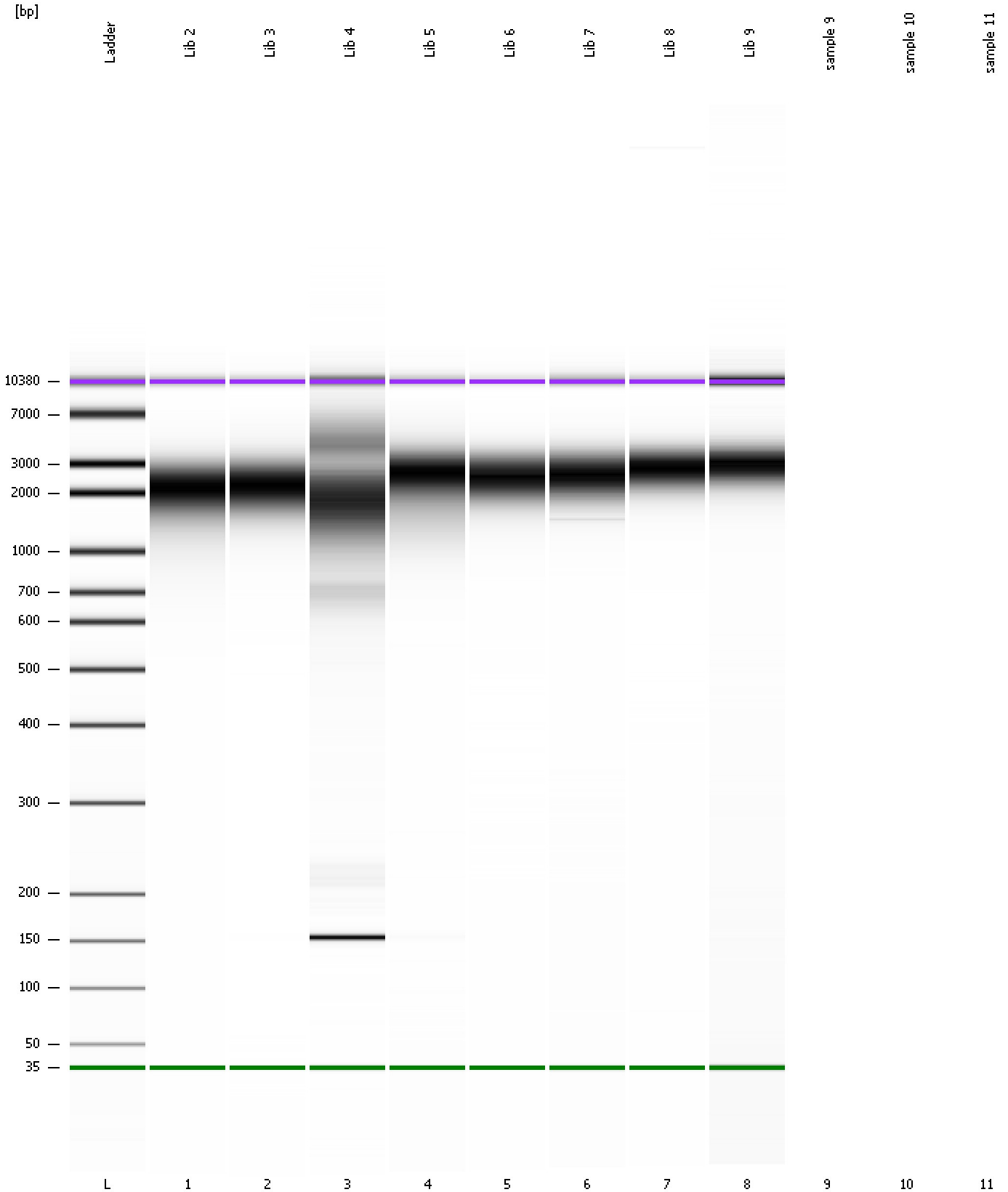
Region table for sample 8 : Lib 9

| From [bp] | To [bp] | Average Size [bp] | Conc. [pg/μl] | Corr. Area | Molarity [pmol/l] | Co % of lor Total | Size distribution in CV [%] |
|-----------|---------|-------------------|---------------|------------|-------------------|-------------------|-----------------------------|
| 200 | 1,000 | 0 | 0.00 | 0.0 | 0.0 | 0 | 0.0 |
| 1,000 | 2,000 | 1,855 | 9.65 | 18.3 | 7.9 | 3 | 6.4 |
| 2,000 | 3,000 | 2,642 | 138.46 | 266.0 | 79.4 | 50 | 9.5 |
| 3,000 | 4,000 | 3,434 | 86.61 | 165.7 | 38.2 | 31 | 8.5 |
| 4,000 | 5,000 | 4,350 | 32.38 | 61.5 | 11.3 | 11 | 6.3 |
| 5,000 | 6,000 | 5,305 | 7.83 | 14.8 | 2.2 | 3 | 5.3 |
| 6,000 | 7,000 | 6,317 | 1.93 | 3.6 | 0.5 | 1 | 4.3 |
| 7,000 | 8,000 | 7,395 | 0.42 | 0.8 | 0.1 | 0 | 4.2 |
| 8,000 | 9,000 | 8,032 | 0.01 | 0.0 | 0.0 | 0 | 2.5 |
| 9,000 | 10,000 | 9,808 | 0.00 | 0.0 | 0.0 | 0 | 1.2 |

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2019-10-21\2019-10-21_002.xad

Created: 10/21/2019 3:38:31 PM
Modified: 10/21/2019 4:16:14 PM

Gel Image



Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2019-10-21\2019-10-21_002.xad

Created: 10/21/2019 3:38:31 PM
Modified: 10/21/2019 4:16:14 PM

Invalid Samples

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:\... bioanalyzer\2100 expert\data\2019-10-21\2019-10-21_002.xad

Created: 10/21/2019 3:38:31 PM
 Modified: 10/21/2019 4:16:14 PM

Run Logbook

| Description | Number | Source | Category | Sub Category | Time | Time Zone | User | Host |
|--|--------|------------|----------|--------------|-----------------------|-------------------------------------|----------|----------|
| Run ended on port 1 (Number of wells acquired: 9) | | Instrument | Run | | 10/21/2019 4:11:09 PM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Run started on port 1 (File: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\data\2019-10-21\2019-10-21_002.xad) | | Instrument | Run | | 10/21/2019 3:38:31 PM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Product Number : G2938C | | Instrument | Run | | 10/21/2019 3:38:31 PM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Name : | | Instrument | Run | | 10/21/2019 3:38:31 PM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Vendor : Agilent Technologies | | Instrument | Run | | 10/21/2019 3:38:31 PM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Serial# : DE34903152 | | Instrument | Run | | 10/21/2019 3:38:31 PM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Firmware : C.01.069 | | Instrument | Run | | 10/21/2019 3:38:31 PM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Cartridge : Electrode | | Instrument | Run | | 10/21/2019 3:38:31 PM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |