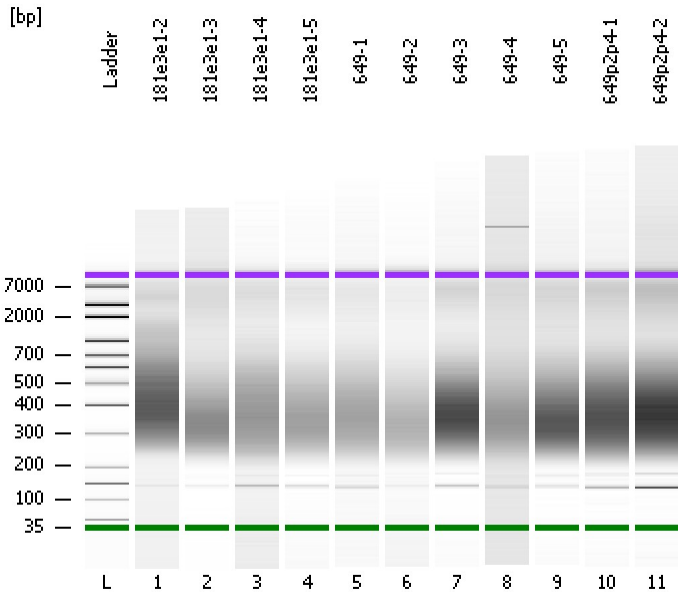


Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2019-01-31\2019-01-31_002.xad

Created: 1/31/2019 2:13:12 PM
Modified: 1/31/2019 2:53:42 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

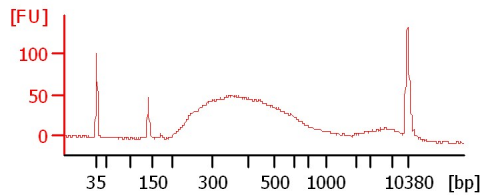
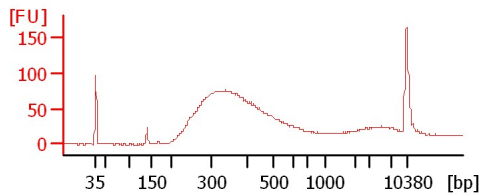
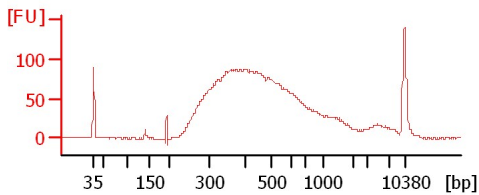
Chip Information:

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

181e3e1-2

181e3e1-3

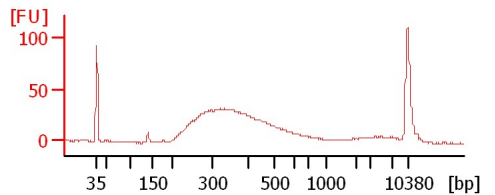
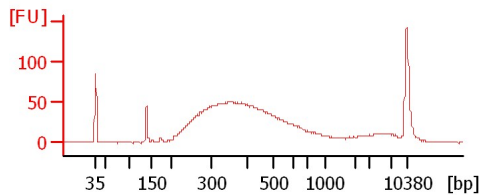
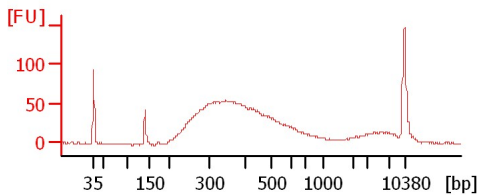
181e3e1-4



181e3e1-5

649-1

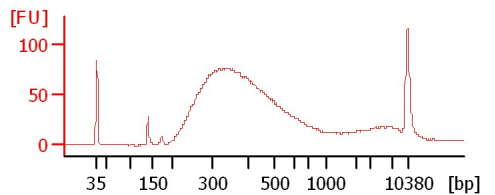
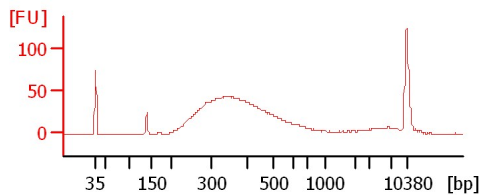
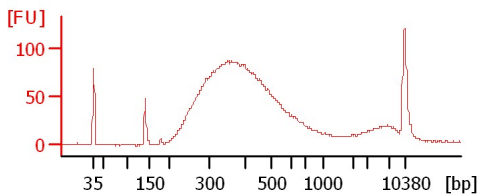
649-2



649-3

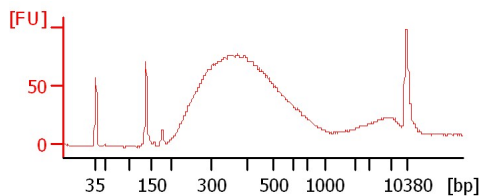
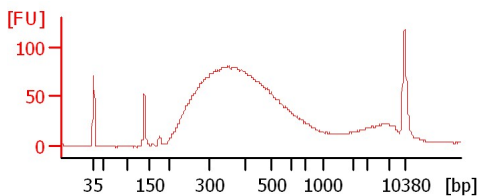
649-4

649-5



649p2p4-1

649p2p4-2



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-01-31\2019-01-31_002.xad

Created: 1/31/2019 2:13:12 PM
 Modified: 1/31/2019 2:53:42 PM

Electrophoresis File Run Summary (Chip Summary)

| Sample Name | Sample Comment | Rest. Digest | Status | Observation | Result Label | Result Color |
|-------------|----------------|--------------------------|--------|-------------|--------------|--------------|
| 181e3e1-2 | | <input type="checkbox"/> | ✓ | | | |
| 181e3e1-3 | | <input type="checkbox"/> | ✓ | | | |
| 181e3e1-4 | | <input type="checkbox"/> | ✓ | | | |
| 181e3e1-5 | | <input type="checkbox"/> | ✓ | | | |
| 649-1 | | <input type="checkbox"/> | ✓ | | | |
| 649-2 | | <input type="checkbox"/> | ✓ | | | |
| 649-3 | | <input type="checkbox"/> | ✓ | | | |
| 649-4 | | <input type="checkbox"/> | ✓ | | | |
| 649-5 | | <input type="checkbox"/> | ✓ | | | |
| 649p2p4-1 | | <input type="checkbox"/> | ✓ | | | |
| 649p2p4-2 | | <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\2019-01-31\2019-01-31_002.xad

Created: 1/31/2019 2:13:12 PM
Modified: 1/31/2019 2:53:42 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

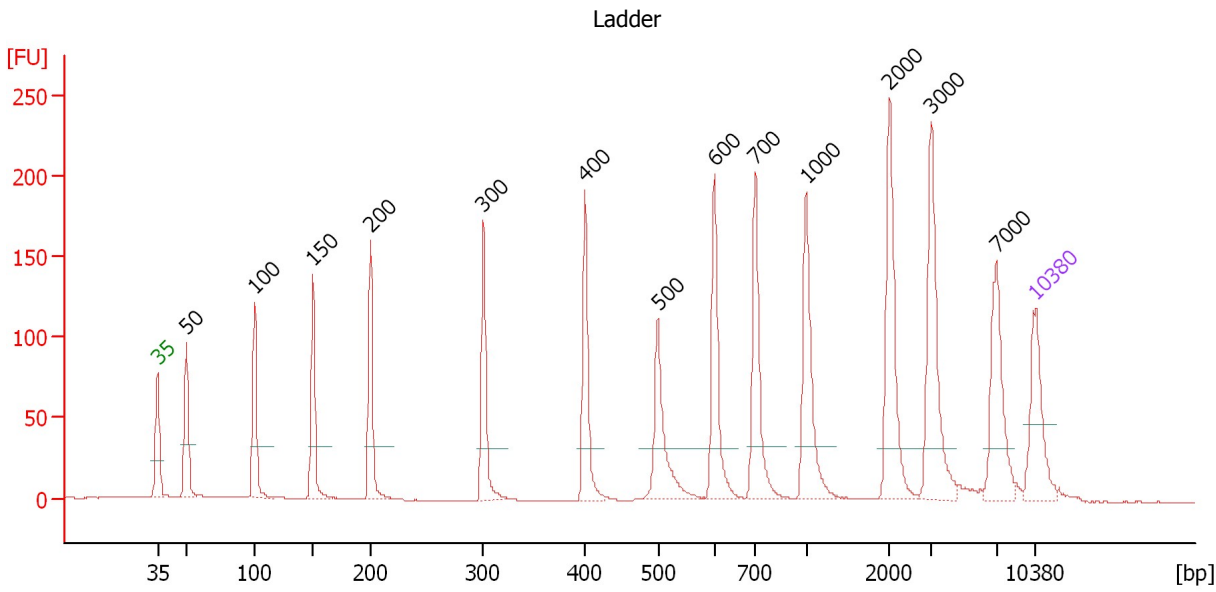
Ladder

| 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\2019-01-31\2019-01-31_002.xad

Created: 1/31/2019 2:13:12 PM
 Modified: 1/31/2019 2:53:42 PM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.3

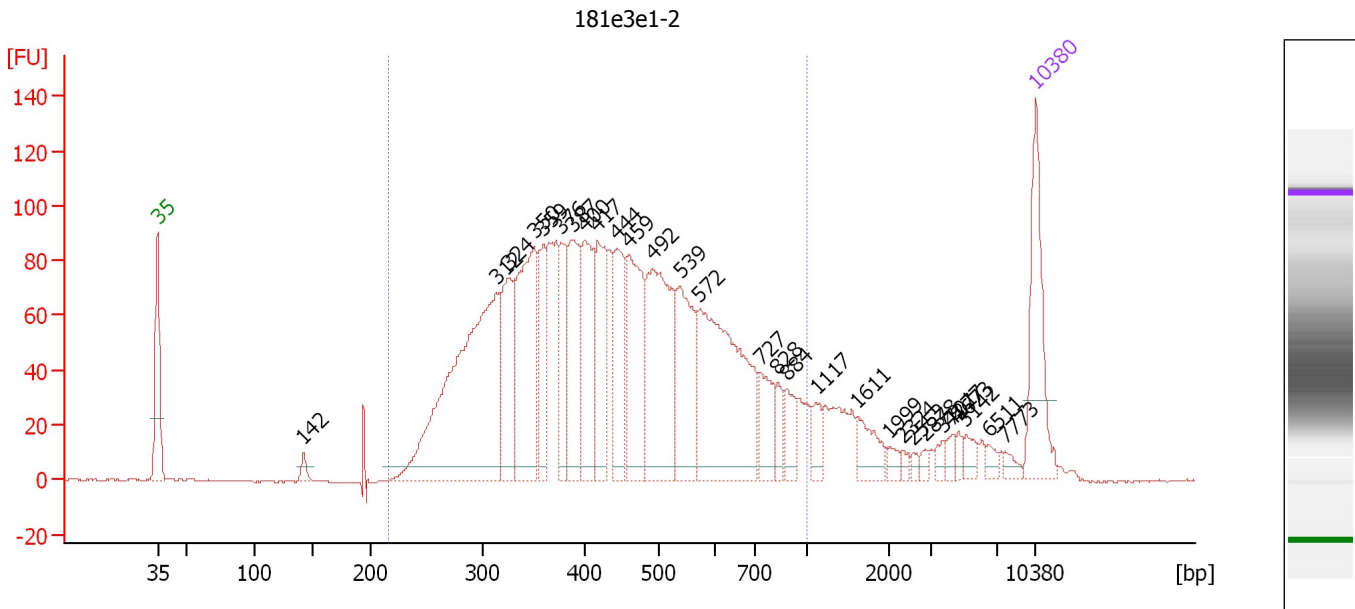
Peak table for Ladder

| 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 | 45.28 |
| 3 | 100 | 150.00 | 2,272.7 | Ladder Peak | 50.72 |
| 4 | 150 | 150.00 | 1,515.2 | Ladder Peak | 55.36 |
| 5 | 200 | 150.00 | 1,136.4 | Ladder Peak | 59.97 |
| 6 | 300 | 150.00 | 757.6 | Ladder Peak | 68.98 |
| 7 | 400 | 150.00 | 568.2 | Ladder Peak | 77.07 |
| 8 | 500 | 150.00 | 454.5 | Ladder Peak | 82.88 |
| 9 | 600 | 150.00 | 378.8 | Ladder Peak | 87.39 |
| 10 | 700 | 150.00 | 324.7 | Ladder Peak | 90.64 |
| 11 | 1,000 | 150.00 | 227.3 | Ladder Peak | 94.69 |
| 12 | 2,000 | 150.00 | 113.6 | Ladder Peak | 101.33 |
| 13 | 3,000 | 150.00 | 75.8 | Ladder Peak | 104.63 |
| 14 | 7,000 | 150.00 | 32.5 | Ladder Peak | 109.84 |
| 15 | 10,380 | 75.00 | 10.9 | Upper Marker | 113.00 |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-01-31\2019-01-31_002.xad

Created: 1/31/2019 2:13:12 PM
 Modified: 1/31/2019 2:53:42 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : 181e3e1-2

Number of peaks found: 29 Corr. Area 1: 2,494.6
 Noise: 0.2

Peak table for sample 1 : 181e3e1-2

| 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 | 142 | 10.50 | 112.0 | | 54.63 |
| 3 | 312 | 394.28 | 1,914.3 | | 69.96 |
| 4 | 324 | 104.45 | 488.1 | | 70.94 |
| 5 | 350 | 180.08 | 780.1 | | 73.01 |
| 6 | 359 | 61.35 | 258.9 | | 73.76 |
| 7 | 376 | 59.97 | 241.7 | | 75.12 |
| 8 | 387 | 99.52 | 389.2 | | 76.05 |
| 9 | 400 | 100.29 | 380.2 | | 77.04 |
| 10 | 417 | 93.66 | 340.1 | | 78.07 |
| 11 | 444 | 77.50 | 264.6 | | 79.62 |
| 12 | 459 | 117.79 | 388.7 | | 80.51 |
| 13 | 492 | 176.51 | 543.3 | | 82.43 |
| 14 | 539 | 105.34 | 296.2 | | 84.63 |
| 15 | 572 | 227.73 | 603.0 | | 86.13 |
| 16 | 727 | 41.66 | 86.8 | | 91.01 |
| 17 | 828 | 16.83 | 30.8 | | 92.37 |
| 18 | 884 | 24.33 | 41.7 | | 93.12 |
| 19 | 1,117 | 17.38 | 23.6 | | 95.46 |
| 20 | 1,611 | 26.88 | 25.3 | | 98.75 |
| 21 | 1,999 | 7.27 | 5.5 | | 101.33 |
| 22 | 2,324 | 3.63 | 2.4 | | 102.40 |
| 23 | 2,552 | 3.65 | 2.2 | | 103.15 |
| 24 | 2,878 | 4.81 | 2.5 | | 104.23 |
| 25 | 3,701 | 6.70 | 2.7 | | 105.55 |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-01-31\2019-01-31_002.xad

Created: 1/31/2019 2:13:12 PM
 Modified: 1/31/2019 2:53:42 PM

Electropherogram Summary Continued ...

... Peak table for sample 1 : 181e3e1-2

| Peak | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations | Aligned Migration Time [s] |
|------|-----------|---------------|-------------------|--------------|----------------------------|
| 26 | 4,277 | 7.26 | 2.6 | | 106.30 |
| 27 | 4,673 | 5.76 | 1.9 | | 106.81 |
| 28 | 5,142 | 10.12 | 3.0 | | 107.42 |
| 29 | 6,511 | 6.50 | 1.5 | | 109.20 |
| 30 | 7,773 | 6.76 | 1.3 | | 110.56 |
| 31 | 10,380 | 75.00 | 10.9 | Upper Marker | 113.00 |

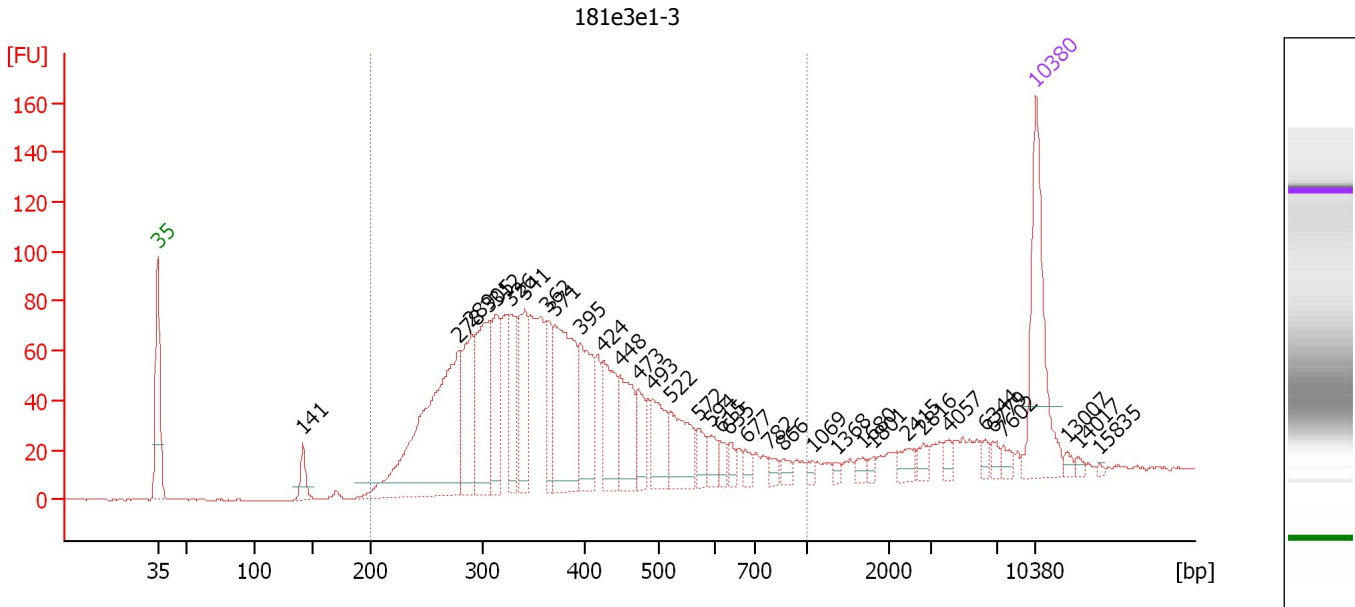
Region table for sample 1 : 181e3e1-2

| From [bp] | To [bp] | Average Size [bp] | Conc. [pg/μl] | Corr. Area | Molarity [pmol/l] | Co % of Ior Total | Size distribution in CV [%] |
|-----------|---------|-------------------|---------------|------------|-------------------|-------------------|-----------------------------|
| 216 | 1,000 | 457 | 2,072.35 | 2,494.6 | 7,857.6 | 90 | 33.2 |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-01-31\2019-01-31_002.xad

Created: 1/31/2019 2:13:12 PM
 Modified: 1/31/2019 2:53:42 PM

Electropherogram Summary Continued ...



Overall Results for sample 2 : 181e3e1-3

Number of peaks found: 35 Corr. Area 1: 1,763.8
 Noise: 0.4

Peak table for sample 2 : 181e3e1-3

| 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 | 141 | 19.09 | 204.4 | | 54.57 |
| 3 | 278 | 241.91 | 1,318.7 | | 66.99 |
| 4 | 289 | 70.07 | 367.4 | | 67.99 |
| 5 | 305 | 94.90 | 471.1 | | 69.40 |
| 6 | 312 | 61.87 | 300.2 | | 69.97 |
| 7 | 326 | 53.13 | 246.7 | | 71.10 |
| 8 | 341 | 62.17 | 276.4 | | 72.28 |
| 9 | 362 | 40.33 | 168.9 | | 73.99 |
| 10 | 371 | 118.80 | 485.7 | | 74.69 |
| 11 | 395 | 64.53 | 247.5 | | 76.68 |
| 12 | 424 | 54.26 | 193.8 | | 78.47 |
| 13 | 448 | 48.39 | 163.8 | | 79.84 |
| 14 | 473 | 27.17 | 87.0 | | 81.31 |
| 15 | 493 | 37.99 | 116.7 | | 82.49 |
| 16 | 522 | 47.03 | 136.6 | | 83.86 |
| 17 | 572 | 14.74 | 39.0 | | 86.12 |
| 18 | 594 | 12.21 | 31.2 | | 87.12 |
| 19 | 615 | 9.02 | 22.2 | | 87.87 |
| 20 | 635 | 7.21 | 17.2 | | 88.53 |
| 21 | 677 | 7.86 | 17.6 | | 89.90 |
| 22 | 782 | 6.22 | 12.0 | | 91.74 |
| 23 | 866 | 6.81 | 11.9 | | 92.88 |
| 24 | 1,069 | 4.06 | 5.8 | | 95.15 |
| 25 | 1,368 | 2.88 | 3.2 | | 97.13 |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-01-31\2019-01-31_002.xad

Created: 1/31/2019 2:13:12 PM
 Modified: 1/31/2019 2:53:42 PM

Electropherogram Summary Continued ...

... Peak table for sample 2 : 181e3e1-3

| Peak | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations | Aligned Migration Time [s] |
|------|-----------|---------------|-------------------|--------------|----------------------------|
| 26 | 1,680 | 4.99 | 4.5 | | 99.21 |
| 27 | 1,801 | 3.55 | 3.0 | | 100.01 |
| 28 | 2,415 | 8.86 | 5.6 | | 102.70 |
| 29 | 2,816 | 6.71 | 3.6 | | 104.03 |
| 30 | 4,057 | 5.71 | 2.1 | | 106.01 |
| 31 | 6,344 | 4.44 | 1.1 | | 108.99 |
| 32 | 6,779 | 5.06 | 1.1 | | 109.55 |
| 33 | 7,602 | 5.91 | 1.2 | | 110.40 |
| 34 | 10,380 | 75.00 | 10.9 | Upper Marker | 113.00 |
| 35 | 13,007 | 0.00 | 0.0 | | 115.46 |
| 36 | 14,017 | 0.00 | 0.0 | | 116.40 |
| 37 | 15,835 | 0.00 | 0.0 | | 118.10 |

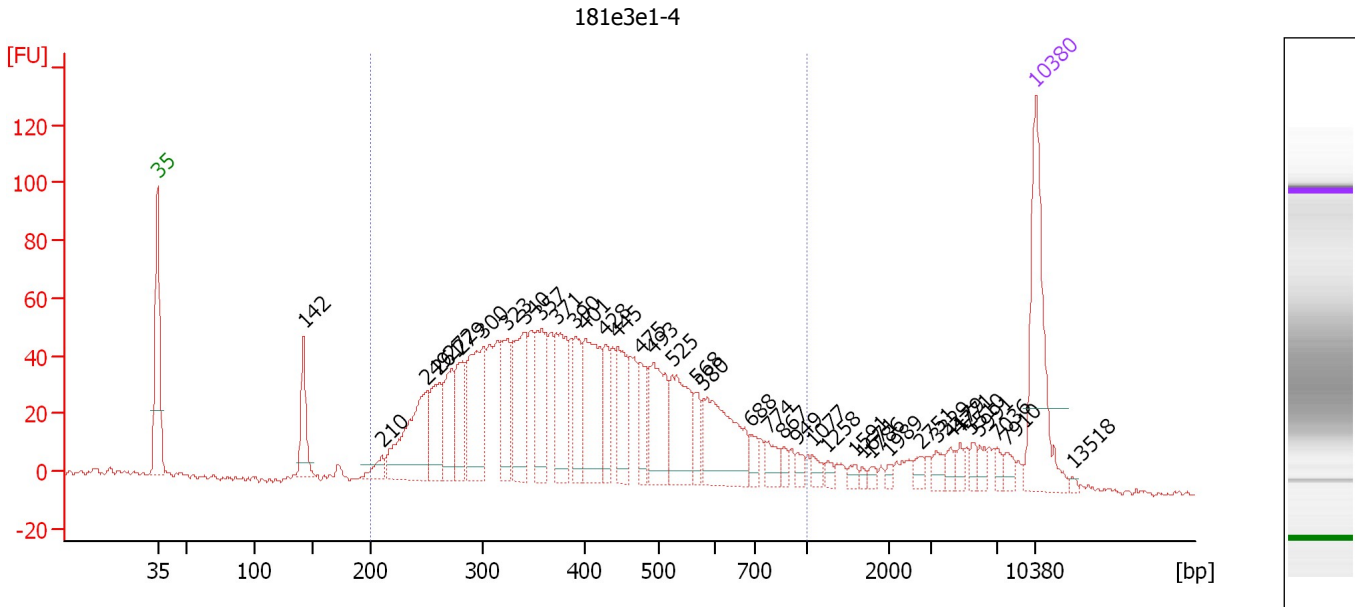
Region table for sample 2 : 181e3e1-3

| 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 | 393 | 1,251.13 | 1,763.8 | 5,425.5 | 88 | 32.5 |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-01-31\2019-01-31_002.xad

Created: 1/31/2019 2:13:12 PM
 Modified: 1/31/2019 2:53:42 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : 181e3e1-4

Number of peaks found: 39 Corr. Area 1: 1,589.3
 Noise: 1.1

Peak table for sample 3 : 181e3e1-4

| 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 | 142 | 44.19 | 470.7 | | 54.64 |
| 3 | 210 | 11.89 | 85.7 | | 60.90 |
| 4 | 249 | 88.46 | 537.7 | | 64.41 |
| 5 | 261 | 46.09 | 267.5 | | 65.47 |
| 6 | 272 | 45.75 | 255.1 | | 66.43 |
| 7 | 279 | 37.42 | 203.1 | | 67.10 |
| 8 | 300 | 83.57 | 422.1 | | 68.98 |
| 9 | 323 | 46.06 | 216.0 | | 70.86 |
| 10 | 340 | 69.31 | 308.5 | | 72.25 |
| 11 | 357 | 56.11 | 238.1 | | 73.60 |
| 12 | 371 | 58.07 | 236.9 | | 74.75 |
| 13 | 390 | 37.79 | 146.7 | | 76.29 |
| 14 | 401 | 71.94 | 272.0 | | 77.11 |
| 15 | 428 | 30.18 | 106.8 | | 78.70 |
| 16 | 445 | 41.05 | 139.9 | | 79.66 |
| 17 | 475 | 23.61 | 75.3 | | 81.44 |
| 18 | 493 | 58.00 | 178.1 | | 82.50 |
| 19 | 525 | 59.75 | 172.6 | | 83.99 |
| 20 | 568 | 15.78 | 42.1 | | 85.96 |
| 21 | 580 | 73.78 | 192.7 | | 86.49 |
| 22 | 688 | 9.74 | 21.5 | | 90.24 |
| 23 | 774 | 12.28 | 24.0 | | 91.64 |
| 24 | 867 | 5.90 | 10.3 | | 92.89 |
| 25 | 949 | 5.55 | 8.9 | | 94.00 |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-01-31\2019-01-31_002.xad


Created: 1/31/2019 2:13:12 PM
 Modified: 1/31/2019 2:53:42 PM

Electropherogram Summary Continued ...

... Peak table for sample 3 : 181e3e1-4

| Peak | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations | Aligned Migration Time [s] |
|------|-----------|---------------|-------------------|--------------|----------------------------|
| 26 | 1,077 | 6.33 | 8.9 | | 95.20 |
| 27 | 1,258 | 4.36 | 5.2 | | 96.40 |
| 28 | 1,591 | 4.22 | 4.0 | | 98.62 |
| 29 | 1,671 | 2.45 | 2.2 | | 99.14 |
| 30 | 1,786 | 3.22 | 2.7 | | 99.91 |
| 31 | 1,989 | 2.75 | 2.1 | | 101.26 |
| 32 | 2,751 | 5.34 | 2.9 | | 103.81 |
| 33 | 3,329 | 6.59 | 3.0 | | 105.06 |
| 34 | 4,179 | 6.08 | 2.2 | | 106.17 |
| 35 | 4,771 | 5.19 | 1.6 | | 106.94 |
| 36 | 5,510 | 6.17 | 1.7 | | 107.90 |
| 37 | 5,991 | 5.18 | 1.3 | | 108.53 |
| 38 | 7,036 | 5.19 | 1.1 | | 109.87 |
| 39 | 7,910 | 6.24 | 1.2 | | 110.69 |
| 40 | 10,380 | 75.00 | 10.9 | Upper Marker | 113.00 |
| 41 | 13,518 | 0.00 | 0.0 | | 115.93 |

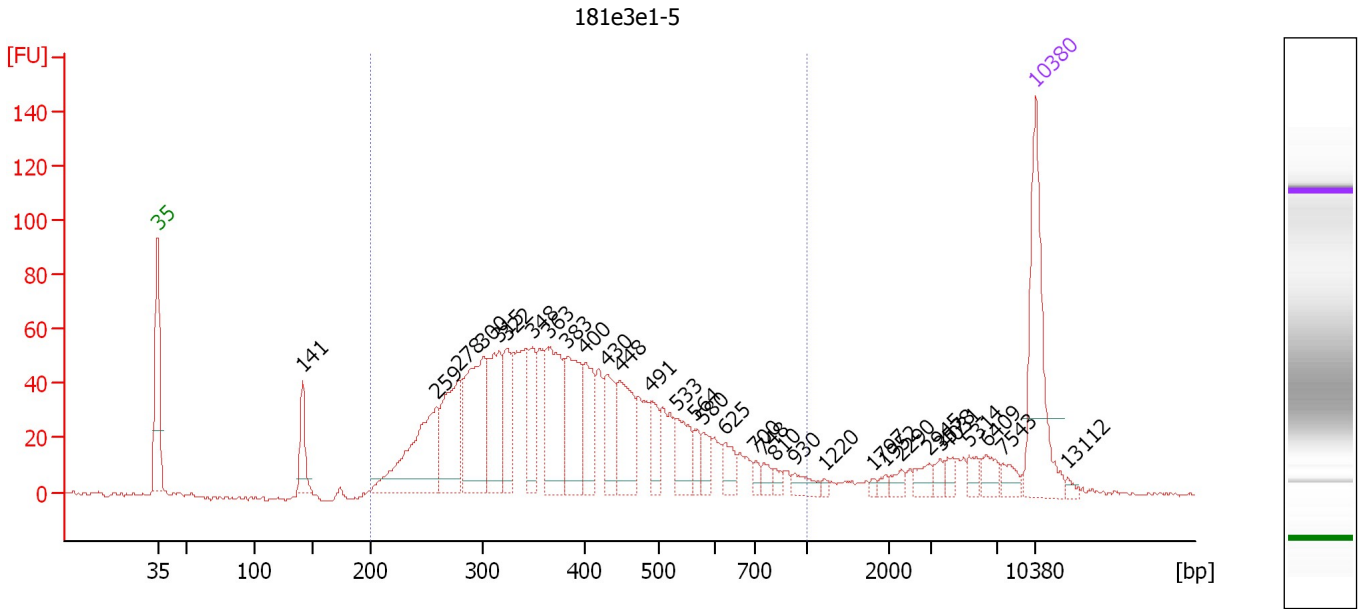
Region table for sample 3 : 181e3e1-4

| 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 | 421 | 1,225.61 | 1,589.3 | 5,104.8 |  86 | 34.6 |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-01-31\2019-01-31_002.xad

Created: 1/31/2019 2:13:12 PM
 Modified: 1/31/2019 2:53:42 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : 181e3e1-5

Number of peaks found: 32 Corr. Area 1: 1,463.9
 Noise: 0.8

Peak table for sample 4 : 181e3e1-5

| 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 | 141 | 33.74 | 362.1 | | 54.54 |
| 3 | 259 | 110.44 | 647.0 | | 65.25 |
| 4 | 278 | 81.67 | 445.6 | | 66.97 |
| 5 | 300 | 109.63 | 553.6 | | 68.99 |
| 6 | 315 | 67.85 | 326.1 | | 70.21 |
| 7 | 322 | 45.81 | 215.6 | | 70.75 |
| 8 | 348 | 41.02 | 178.6 | | 72.87 |
| 9 | 363 | 82.67 | 344.8 | | 74.09 |
| 10 | 383 | 72.48 | 287.0 | | 75.67 |
| 11 | 400 | 40.29 | 152.5 | | 77.09 |
| 12 | 430 | 39.86 | 140.5 | | 78.81 |
| 13 | 448 | 53.55 | 181.2 | | 79.84 |
| 14 | 491 | 22.59 | 69.7 | | 82.35 |
| 15 | 533 | 31.84 | 90.5 | | 84.36 |
| 16 | 564 | 11.74 | 31.5 | | 85.79 |
| 17 | 580 | 13.35 | 34.9 | | 86.47 |
| 18 | 625 | 15.42 | 37.4 | | 88.19 |
| 19 | 700 | 5.77 | 12.5 | | 90.65 |
| 20 | 748 | 7.44 | 15.1 | | 91.29 |
| 21 | 810 | 5.06 | 9.5 | | 92.12 |
| 22 | 930 | 9.79 | 16.0 | | 93.74 |
| 23 | 1,220 | 2.53 | 3.1 | | 96.15 |
| 24 | 1,797 | 2.11 | 1.8 | | 99.98 |
| 25 | 1,952 | 3.25 | 2.5 | | 101.01 |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-01-31\2019-01-31_002.xad

Created: 1/31/2019 2:13:12 PM
 Modified: 1/31/2019 2:53:42 PM

Electropherogram Summary Continued ...

... Peak table for sample 4 : 181e3e1-5

| Peak | Size [bp] | Conc. [pg/ μ l] | Molarity [pmol/l] | Observations | Aligned Migration Time [s] |
|------|-----------|---------------------|-------------------|--------------|----------------------------|
| 26 | 2,290 | 5.98 | 4.0 | | 102.29 |
| 27 | 2,945 | 9.00 | 4.6 | | 104.45 |
| 28 | 3,578 | 5.42 | 2.3 | | 105.39 |
| 29 | 4,031 | 5.89 | 2.2 | | 105.98 |
| 30 | 5,314 | 7.09 | 2.0 | | 107.65 |
| 31 | 6,409 | 10.78 | 2.5 | | 109.07 |
| 32 | 7,543 | 8.61 | 1.7 | | 110.35 |
| 33 | 10,380 | 75.00 | 10.9 | Upper Marker | 113.00 |
| 34 | 13,112 | 0.00 | 0.0 | | 115.55 |

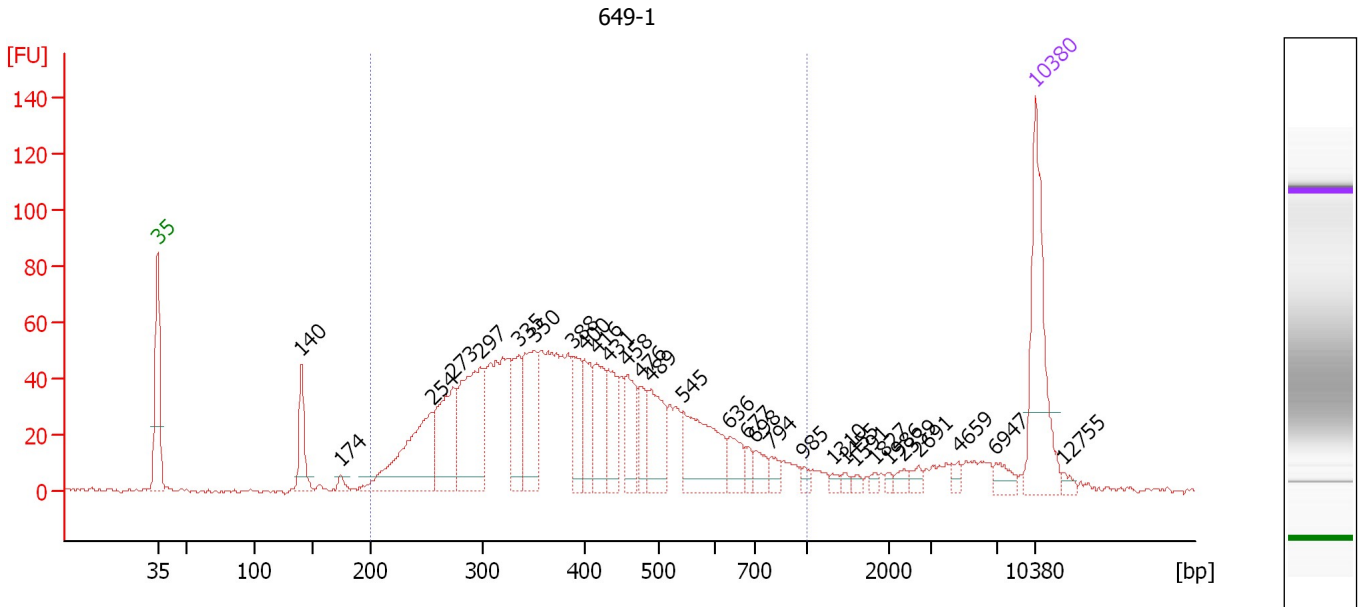
Region table for sample 4 : 181e3e1-5

| From [bp] | To [bp] | Average Size [bp] | Conc. [pg/ μ l] | Corr. Area | Molarity [pmol/l] | Co % of lor Total | Size distribution in CV [%] |
|-----------|---------|-------------------|---------------------|------------|-------------------|--|-----------------------------|
| 200 | 1,000 | 404 | 1,101.52 | 1,463.9 | 4,690.6 |  87 | 33.0 |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-01-31\2019-01-31_002.xad

Created: 1/31/2019 2:13:12 PM
 Modified: 1/31/2019 2:53:42 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : 649-1

Number of peaks found: 30 Corr. Area 1: 1,473.2
 Noise: 0.9

Peak table for sample 5 : 649-1

| 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 | 140 | 40.55 | 438.1 | | 54.46 |
| 3 | 174 | 5.56 | 48.4 | | 57.59 |
| 4 | 254 | 106.79 | 636.5 | | 64.85 |
| 5 | 273 | 77.29 | 428.6 | | 66.57 |
| 6 | 297 | 108.88 | 555.9 | | 68.69 |
| 7 | 335 | 48.16 | 217.8 | | 71.82 |
| 8 | 350 | 66.96 | 289.9 | | 73.03 |
| 9 | 388 | 38.00 | 148.4 | | 76.11 |
| 10 | 400 | 37.76 | 143.1 | | 77.07 |
| 11 | 416 | 42.83 | 155.8 | | 78.03 |
| 12 | 431 | 36.21 | 127.2 | | 78.88 |
| 13 | 458 | 38.56 | 127.5 | | 80.45 |
| 14 | 476 | 25.31 | 80.5 | | 81.51 |
| 15 | 489 | 46.01 | 142.4 | | 82.26 |
| 16 | 545 | 72.01 | 200.4 | | 84.89 |
| 17 | 636 | 20.05 | 47.7 | | 88.57 |
| 18 | 677 | 7.98 | 17.9 | | 89.89 |
| 19 | 698 | 12.40 | 26.9 | | 90.59 |
| 20 | 794 | 8.56 | 16.3 | | 91.90 |
| 21 | 985 | 4.58 | 7.0 | | 94.48 |
| 22 | 1,310 | 3.45 | 4.0 | | 96.75 |
| 23 | 1,455 | 3.13 | 3.3 | | 97.71 |
| 24 | 1,591 | 3.01 | 2.9 | | 98.62 |
| 25 | 1,827 | 3.03 | 2.5 | | 100.18 |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-01-31\2019-01-31_002.xad

Created: 1/31/2019 2:13:12 PM
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Electropherogram Summary Continued ...

... Peak table for sample 5 : 649-1

| Peak | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations | Aligned Migration Time [s] |
|------|-----------|---------------|-------------------|--------------|----------------------------|
| 26 | 1,986 | 2.50 | 1.9 | | 101.24 |
| 27 | 2,339 | 4.81 | 3.1 | | 102.45 |
| 28 | 2,691 | 5.24 | 3.0 | | 103.61 |
| 29 | 4,659 | 5.06 | 1.6 | | 106.79 |
| 30 | 6,947 | 8.77 | 1.9 | | 109.77 |
| 31 | 10,380 | 75.00 | 10.9 | Upper Marker | 113.00 |
| 32 | 12,755 | 0.00 | 0.0 | | 115.22 |

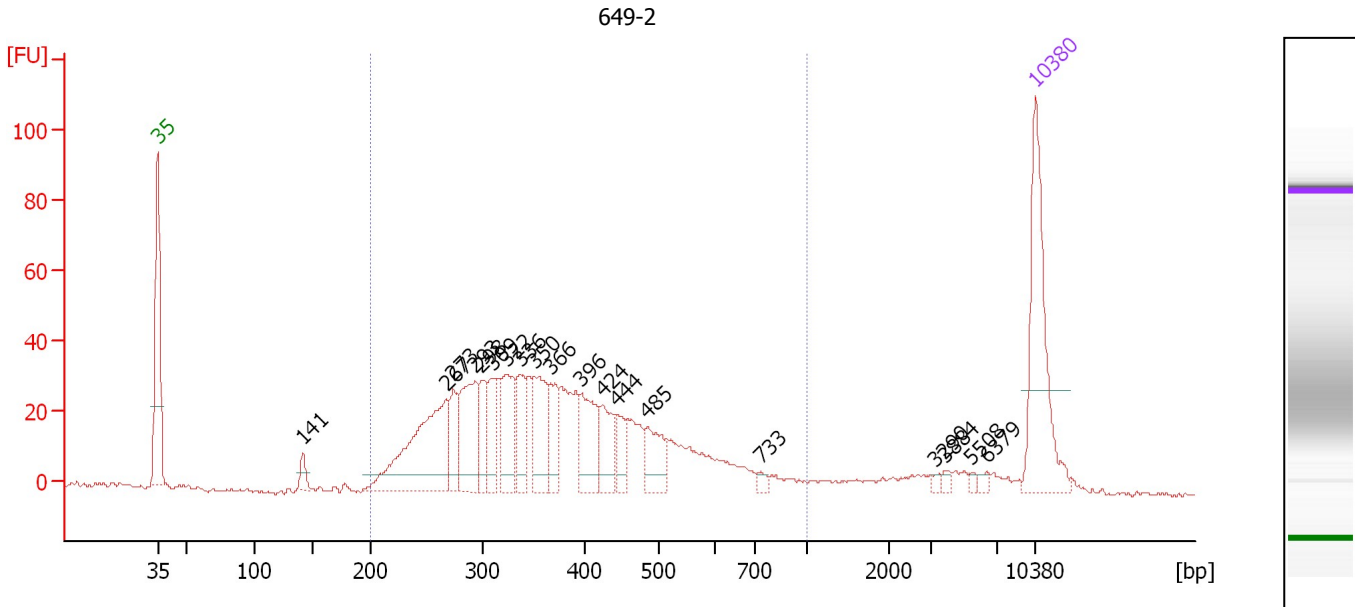
Region table for sample 5 : 649-1

| 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 | 415 | 1,143.98 | 1,473.2 | 4,816.9 | 84 | 34.6 |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-01-31\2019-01-31_002.xad

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Electropherogram Summary Continued ...



Overall Results for sample 6 : 649-2

Number of peaks found: 19 Corr. Area 1: 856.2
 Noise: 0.4

Peak table for sample 6 : 649-2

| 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 | 141 | 10.21 | 109.6 | | 54.55 |
| 3 | 267 | 127.50 | 724.1 | | 65.99 |
| 4 | 273 | 26.28 | 145.8 | | 66.56 |
| 5 | 293 | 64.44 | 333.7 | | 68.31 |
| 6 | 298 | 27.95 | 142.0 | | 68.82 |
| 7 | 309 | 32.04 | 157.2 | | 69.70 |
| 8 | 322 | 46.60 | 219.1 | | 70.78 |
| 9 | 336 | 32.96 | 148.8 | | 71.87 |
| 10 | 350 | 48.38 | 209.2 | | 73.05 |
| 11 | 366 | 26.64 | 110.2 | | 74.34 |
| 12 | 396 | 44.03 | 168.4 | | 76.76 |
| 13 | 424 | 28.43 | 101.6 | | 78.46 |
| 14 | 444 | 16.85 | 57.6 | | 79.60 |
| 15 | 485 | 28.04 | 87.6 | | 82.02 |
| 16 | 733 | 4.10 | 8.5 | | 91.09 |
| 17 | 3,290 | 2.01 | 0.9 | | 105.01 |
| 18 | 3,884 | 2.86 | 1.1 | | 105.78 |
| 19 | 5,508 | 2.07 | 0.6 | | 107.90 |
| 20 | 6,379 | 3.05 | 0.7 | | 109.03 |
| 21 | 10,380 | 75.00 | 10.9 | Upper Marker | 113.00 |

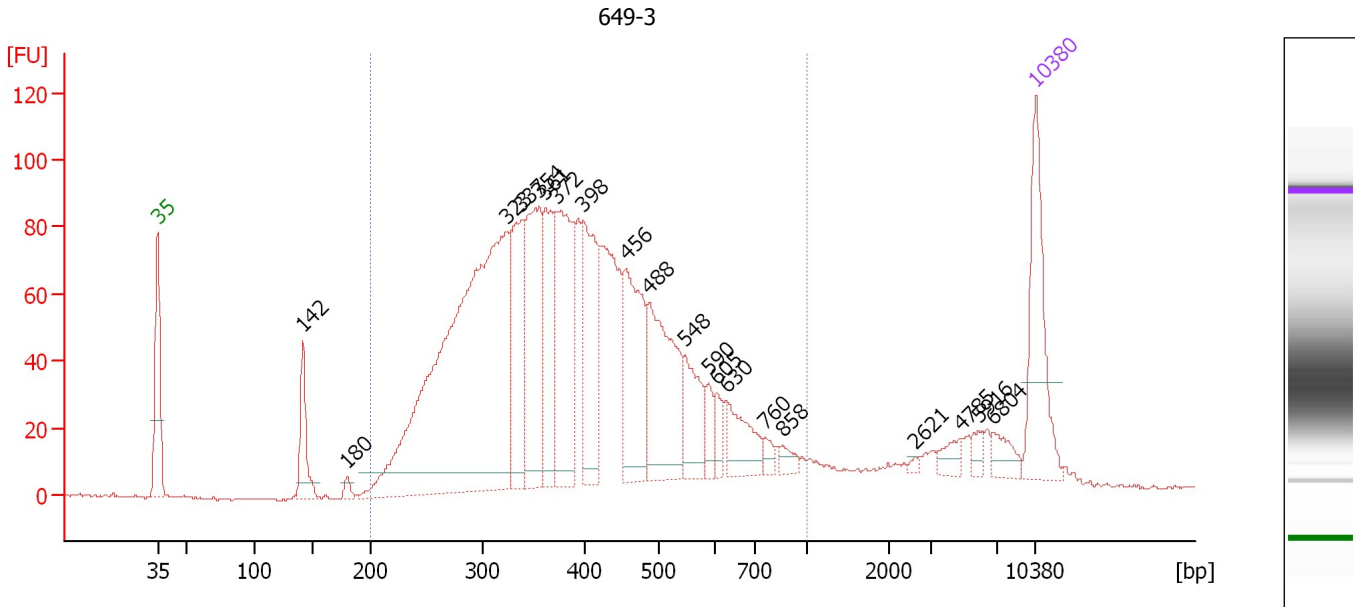
Region table for sample 6 : 649-2

| 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 | 389 | 743.35 | 856.2 | 3,276.3 | 88 | 33.2 |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-01-31\2019-01-31_002.xad

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Electropherogram Summary Continued ...



Overall Results for sample 7 : 649-3

Number of peaks found: 20 Corr. Area 1: 2,194.9
 Noise: 0.4

Peak table for sample 7 : 649-3

| 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 | 142 | 54.62 | 583.0 | | 54.61 |
| 3 | 180 | 7.29 | 61.3 | | 58.14 |
| 4 | 323 | 605.74 | 2,840.4 | | 70.85 |
| 5 | 337 | 115.87 | 521.3 | | 71.96 |
| 6 | 354 | 142.59 | 609.8 | | 73.38 |
| 7 | 361 | 88.49 | 371.6 | | 73.90 |
| 8 | 372 | 154.01 | 627.5 | | 74.79 |
| 9 | 398 | 113.08 | 430.0 | | 76.95 |
| 10 | 456 | 120.30 | 399.9 | | 80.31 |
| 11 | 488 | 131.13 | 406.8 | | 82.20 |
| 12 | 548 | 52.28 | 144.6 | | 85.04 |
| 13 | 590 | 16.33 | 41.9 | | 86.93 |
| 14 | 605 | 14.56 | 36.4 | | 87.56 |
| 15 | 630 | 41.94 | 100.9 | | 88.35 |
| 16 | 760 | 8.54 | 17.0 | | 91.45 |
| 17 | 858 | 9.39 | 16.6 | | 92.77 |
| 18 | 2,621 | 2.45 | 1.4 | | 103.38 |
| 19 | 4,785 | 10.57 | 3.3 | | 106.96 |
| 20 | 5,916 | 7.27 | 1.9 | | 108.43 |
| 21 | 6,804 | 14.62 | 3.3 | | 109.58 |
| 22 | 10,380 | 75.00 | 10.9 | Upper Marker | 113.00 |

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2019-01-31\2019-01-31_002.xad

Created: 1/31/2019 2:13:12 PM
Modified: 1/31/2019 2:53:42 PM

Electropherogram Summary Continued ...

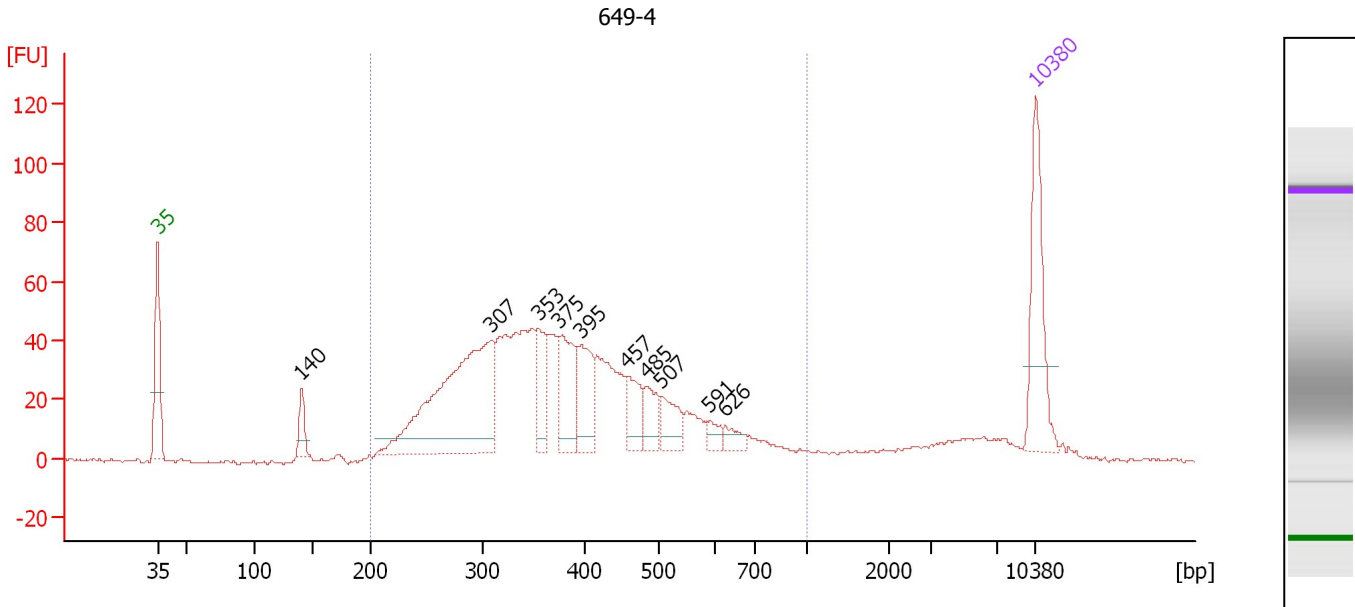
... Region table for sample 7 : 649-3

| From [bp] | To [bp] | Average Size [bp] | Conc. [pg/ μ l] | Corr. Area | Molarity [pmol/l] | Co % of lor Total | Size distribution in CV [%] |
|-----------|---------|-------------------|---------------------|------------|-------------------|--|-----------------------------|
| 200 | 1,000 | 410 | 1,982.73 | 2,194.9 | 8,271.0 |  88 | 32.3 |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-01-31\2019-01-31_002.xad

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Electropherogram Summary Continued ...



Overall Results for sample 8 : 649-4

Number of peaks found: 10 Corr. Area 1: 1,098.2
 Noise: 0.4

Peak table for sample 8 : 649-4

| 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 | 140 | 23.48 | 253.4 | | 54.47 |
| 3 | 307 | 288.06 | 1,420.5 | | 69.57 |
| 4 | 353 | 44.10 | 189.0 | | 73.30 |
| 5 | 375 | 66.84 | 270.4 | | 75.01 |
| 6 | 395 | 60.73 | 232.9 | | 76.67 |
| 7 | 457 | 37.80 | 125.2 | | 80.40 |
| 8 | 485 | 29.52 | 92.3 | | 82.00 |
| 9 | 507 | 32.04 | 95.9 | | 83.18 |
| 10 | 591 | 10.12 | 26.0 | | 86.96 |
| 11 | 626 | 11.19 | 27.1 | | 88.24 |
| 12 | 10,380 | 75.00 | 10.9 | Upper Marker | 113.00 |

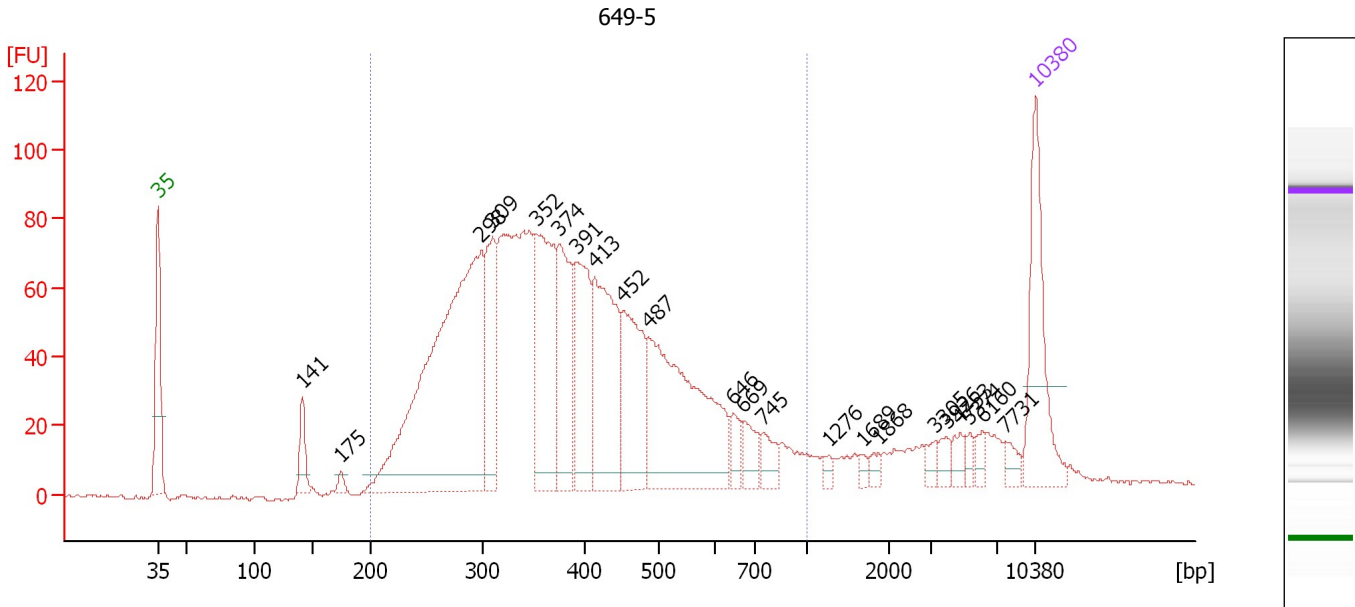
Region table for sample 8 : 649-4

| 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 | 397 | 1,098.65 | 1,098.2 | 4,713.8 | 87 | 31.8 |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-01-31\2019-01-31_002.xad

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Electropherogram Summary Continued ...



Overall Results for sample 9 : 649-5

Number of peaks found: 22 Corr. Area 1: 1,997.6
 Noise: 0.6

Peak table for sample 9 : 649-5

| 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 | 141 | 26.51 | 285.0 | | 54.52 |
| 3 | 175 | 6.40 | 55.5 | | 57.65 |
| 4 | 298 | 461.85 | 2,349.1 | | 68.79 |
| 5 | 309 | 92.81 | 455.1 | | 69.71 |
| 6 | 352 | 156.14 | 672.9 | | 73.15 |
| 7 | 374 | 97.56 | 395.0 | | 74.98 |
| 8 | 391 | 103.70 | 402.0 | | 76.33 |
| 9 | 413 | 141.66 | 519.4 | | 77.84 |
| 10 | 452 | 103.24 | 346.0 | | 80.10 |
| 11 | 487 | 212.72 | 661.3 | | 82.15 |
| 12 | 646 | 16.73 | 39.3 | | 88.88 |
| 13 | 669 | 21.86 | 49.5 | | 89.63 |
| 14 | 745 | 18.05 | 36.7 | | 91.25 |
| 15 | 1,276 | 5.88 | 7.0 | | 96.52 |
| 16 | 1,689 | 4.54 | 4.1 | | 99.27 |
| 17 | 1,868 | 5.84 | 4.7 | | 100.45 |
| 18 | 3,305 | 6.92 | 3.2 | | 105.03 |
| 19 | 3,926 | 8.02 | 3.1 | | 105.84 |
| 20 | 4,753 | 9.28 | 3.0 | | 106.92 |
| 21 | 5,374 | 6.15 | 1.7 | | 107.72 |
| 22 | 6,160 | 7.73 | 1.9 | | 108.75 |
| 23 | 7,731 | 9.06 | 1.8 | | 110.52 |
| 24 | 10,380 | 75.00 | 10.9 | Upper Marker | 113.00 |

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2019-01-31\2019-01-31_002.xad

Created: 1/31/2019 2:13:12 PM
Modified: 1/31/2019 2:53:42 PM

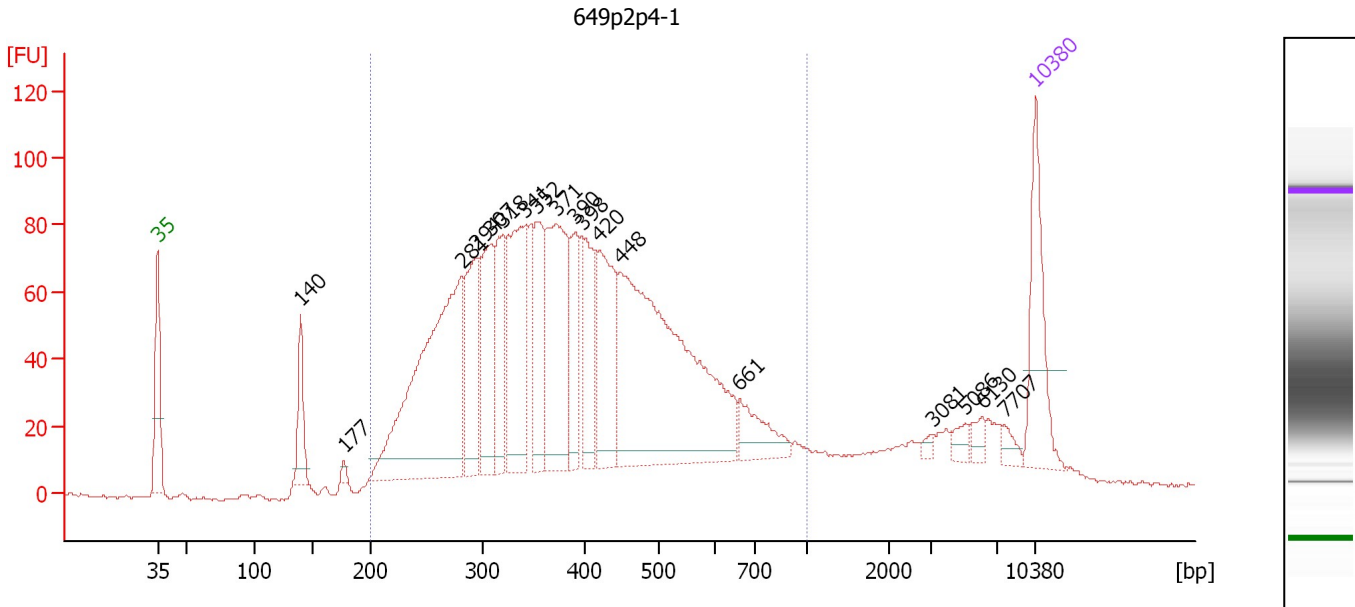
Electropherogram Summary Continued ...**... Region table for sample 9 : 649-5**

| From [bp] | To [bp] | Average Size [bp] | Conc. [pg/ μ l] | Corr. Area | Molarity [pmol/l] | Co % of lor Total | Size distribution in CV [%] |
|-----------|---------|-------------------|---------------------|------------|-------------------|--|-----------------------------|
| 200 | 1,000 | 404 | 1,804.91 | 1,997.6 | 7,719.2 |  86 | 34.1 |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-01-31\2019-01-31_002.xad

Created: 1/31/2019 2:13:12 PM
 Modified: 1/31/2019 2:53:42 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : 649p2p4-1

Number of peaks found: 18 Corr. Area 1: 2,266.4
 Noise: 0.6

Peak table for sample 10 : 649p2p4-1

| 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 | 140 | 58.84 | 637.8 | | 54.41 |
| 3 | 177 | 6.33 | 54.2 | | 57.84 |
| 4 | 281 | 390.93 | 2,110.4 | | 67.24 |
| 5 | 294 | 120.44 | 620.8 | | 68.43 |
| 6 | 307 | 113.95 | 561.7 | | 69.58 |
| 7 | 318 | 92.69 | 441.5 | | 70.45 |
| 8 | 341 | 164.01 | 728.9 | | 72.29 |
| 9 | 352 | 101.22 | 435.3 | | 73.22 |
| 10 | 371 | 189.43 | 773.3 | | 74.74 |
| 11 | 390 | 73.52 | 285.6 | | 76.26 |
| 12 | 398 | 87.66 | 333.7 | | 76.91 |
| 13 | 420 | 125.20 | 451.9 | | 78.22 |
| 14 | 448 | 444.36 | 1,503.5 | | 79.85 |
| 15 | 661 | 46.85 | 107.5 | | 89.36 |
| 16 | 3,081 | 4.39 | 2.2 | | 104.74 |
| 17 | 5,086 | 10.32 | 3.1 | | 107.35 |
| 18 | 6,130 | 10.21 | 2.5 | | 108.71 |
| 19 | 7,707 | 9.39 | 1.8 | | 110.50 |
| 20 | 10,380 | 75.00 | 10.9 | Upper Marker | 113.00 |

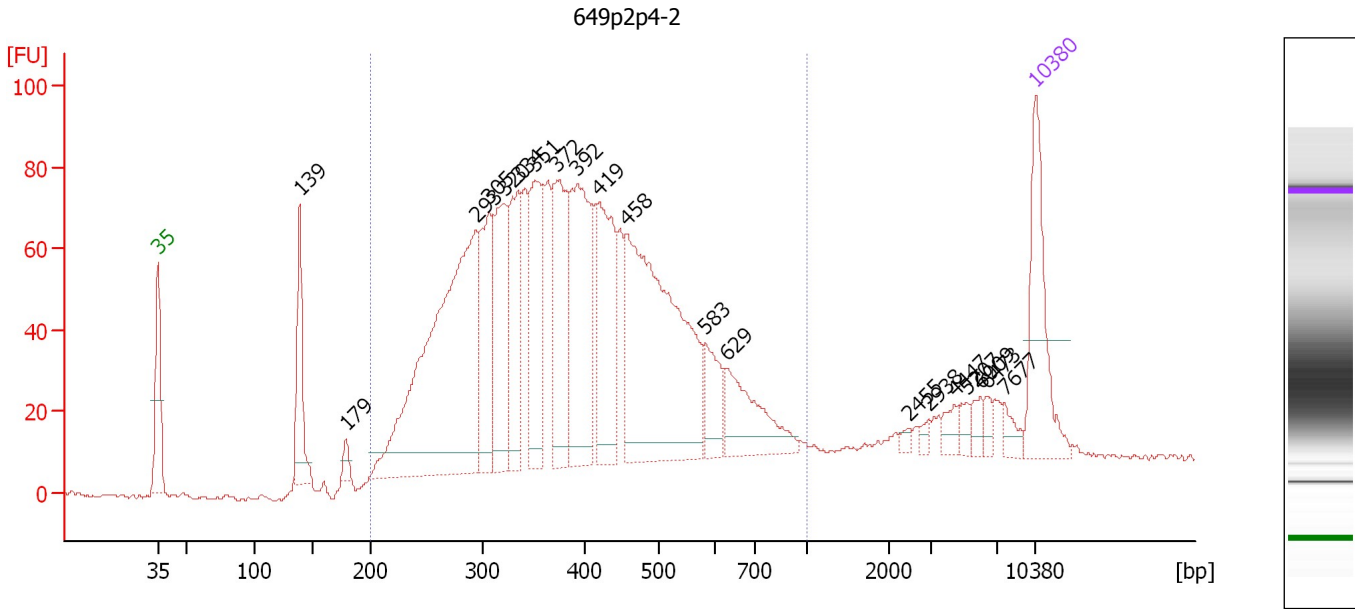
Region table for sample 10 : 649p2p4-1

| 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 | 410 | 2,393.09 | 2,266.4 | 10,156.8 | 86 | 34.3 |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-01-31\2019-01-31_002.xad

Created: 1/31/2019 2:13:12 PM
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Electropherogram Summary Continued ...



Overall Results for sample 11 : 649p2p4-2

Number of peaks found: 20 Corr. Area 1: 2,011.3
 Noise: 0.6

Peak table for sample 11 : 649p2p4-2

| 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 | 139 | 86.35 | 942.9 | | 54.32 |
| 3 | 179 | 11.99 | 101.7 | | 58.00 |
| 4 | 293 | 440.55 | 2,275.3 | | 68.38 |
| 5 | 305 | 109.14 | 542.4 | | 69.37 |
| 6 | 320 | 121.59 | 574.9 | | 70.64 |
| 7 | 334 | 99.90 | 453.1 | | 71.74 |
| 8 | 351 | 111.46 | 481.1 | | 73.11 |
| 9 | 372 | 126.19 | 513.9 | | 74.81 |
| 10 | 392 | 161.02 | 621.6 | | 76.46 |
| 11 | 419 | 129.59 | 468.8 | | 78.16 |
| 12 | 458 | 323.47 | 1,071.0 | | 80.42 |
| 13 | 583 | 41.16 | 106.9 | | 86.63 |
| 14 | 629 | 70.40 | 169.6 | | 88.33 |
| 15 | 2,455 | 3.79 | 2.3 | | 102.84 |
| 16 | 2,938 | 4.43 | 2.3 | | 104.43 |
| 17 | 4,447 | 10.71 | 3.6 | | 106.52 |
| 18 | 5,207 | 8.39 | 2.4 | | 107.51 |
| 19 | 6,009 | 9.50 | 2.4 | | 108.55 |
| 20 | 6,473 | 7.20 | 1.7 | | 109.15 |
| 21 | 7,677 | 10.94 | 2.2 | | 110.47 |
| 22 | 10,380 | 75.00 | 10.9 | Upper Marker | 113.00 |

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2019-01-31\2019-01-31_002.xad

Created: 1/31/2019 2:13:12 PM
Modified: 1/31/2019 2:53:42 PM

Electropherogram Summary Continued ...

... Region table for sample 11 : 649p2p4-2

| From [bp] | To [bp] | Average Size [bp] | Conc. [pg/ μ l] | Corr. Area | Molarity [pmol/l] | Co % of lor Total | Size distribution in CV [%] |
|-----------|---------|-------------------|---------------------|------------|-------------------|--|-----------------------------|
| 200 | 1,000 | 411 | 2,185.03 | 2,011.3 | 9,165.3 |  85 | 32.8 |

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2019-01-31\2019-01-31_002.xad

Created: 1/31/2019 2:13:12 PM
Modified: 1/31/2019 2:53:42 PM

Gel Image

