

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2019-07-30\2019-07-30_002.xad

Created: 7/30/2019 1:50:26 PM
Modified: 7/30/2019 2:30:47 PM

Electrophoresis File Run Summary

Instrument Information:

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

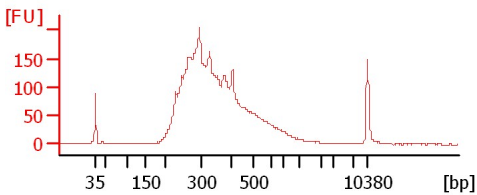
Assay Information:

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

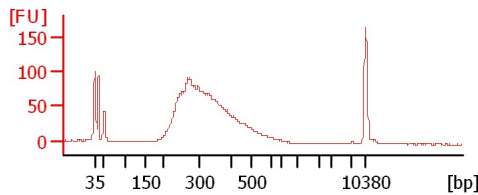
Chip Information:

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

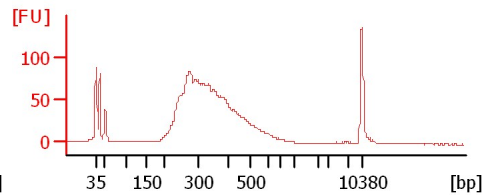
Glu-6 Library



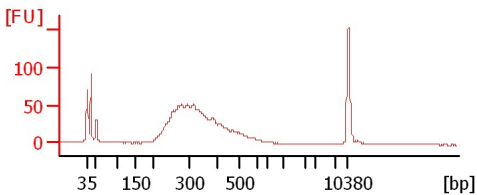
Mac-3 Library



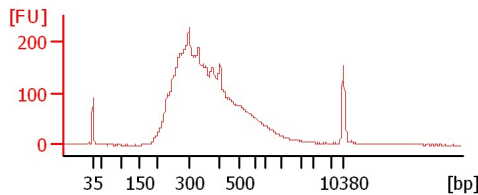
G7T2-3 Library



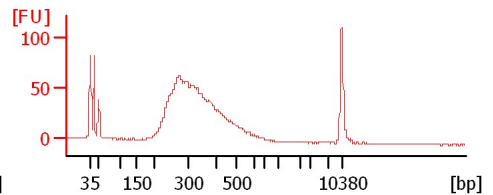
ACP-NK Library



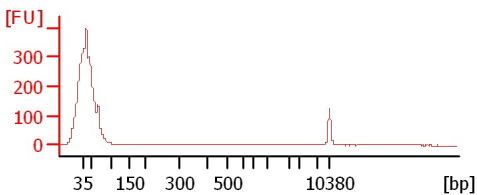
N141P



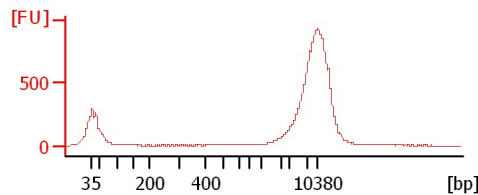
H1883P



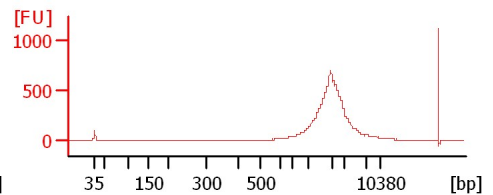
B5



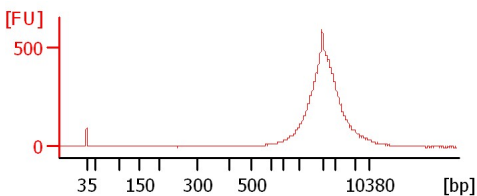
C7



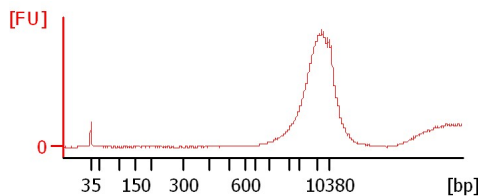
A1



B9



C9



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Electrophoresis File Run Summary (Chip Summary)

| Sample Name | Sample Comment | Rest. Digest | Status | Observation | Result Label | Result Color |
|----------------|----------------|--------------------------|--------|-------------|--------------|--------------|
| Glu-6 Library | | <input type="checkbox"/> | ✓ | | | |
| Mac-3 Library | | <input type="checkbox"/> | ✓ | | | |
| G7T2-3 Library | | <input type="checkbox"/> | ✓ | | | |
| ACP-NK Library | | <input type="checkbox"/> | ✓ | | | |
| N141P | | <input type="checkbox"/> | ✓ | | | |
| H1883P | | <input type="checkbox"/> | ✓ | | | |
| B5 | | <input type="checkbox"/> | ✓ | | | |
| C7 | | <input type="checkbox"/> | ✓ | | | |
| A1 | | <input type="checkbox"/> | ✓ | | | |
| B9 | | <input type="checkbox"/> | ✓ | | | |
| C9 | | <input type="checkbox"/> | ✓ | | | |
| Ladder | | <input type="checkbox"/> | ✓ | | | |

Chip Lot # **Reagent Kit Lot #**

Chip Comments :

Assay Class: High Sensitivity DNA Assay
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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

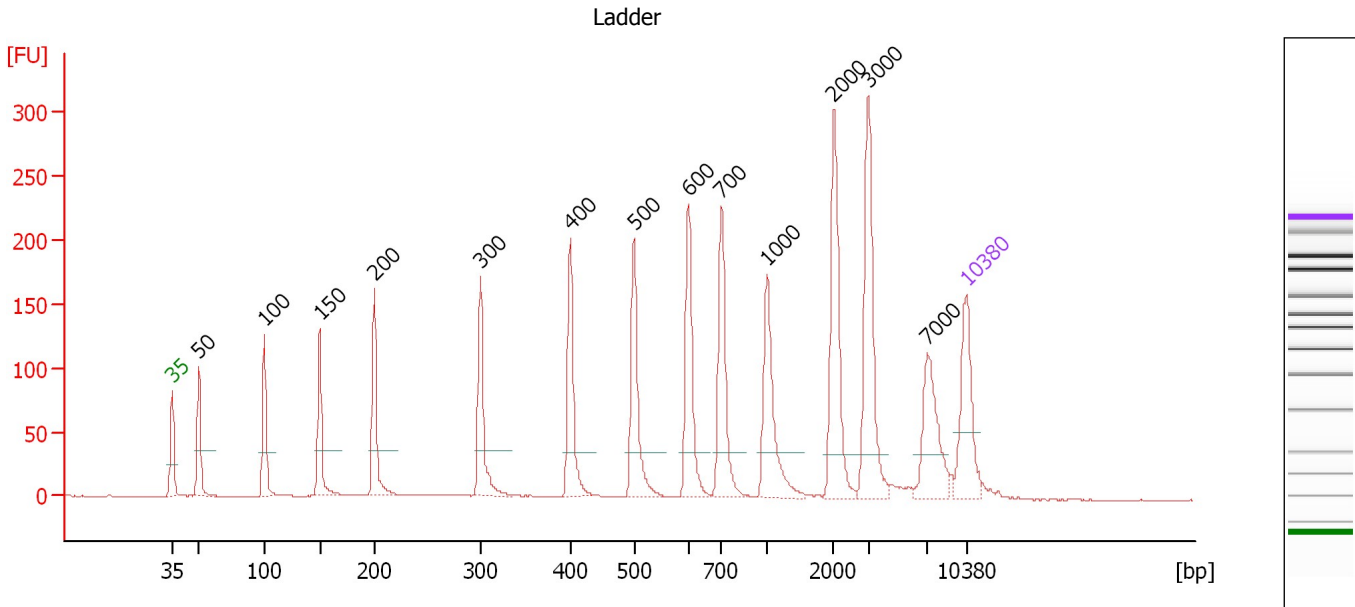
Ladder

| 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 |

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Electropherogram Summary



Overall Results for Ladder

Noise: 0.2

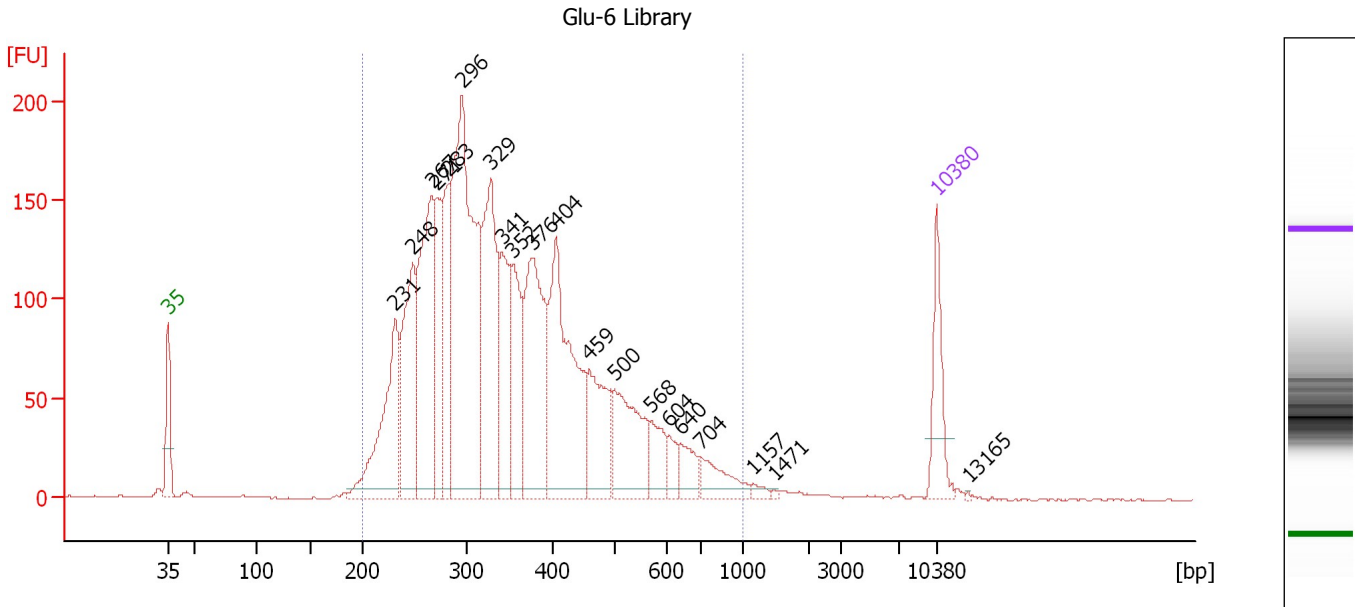
Peak table for Ladder

| Peak | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations | Aligned Migration Time [s] |
|------|-----------|---------------|-------------------|--------------|----------------------------|
| 1 | 35 | 125.00 | 5,411.3 | Lower Marker | 43.00 |
| 2 | 50 | 150.00 | 4,545.5 | Ladder Peak | 45.35 |
| 3 | 100 | 150.00 | 2,272.7 | Ladder Peak | 51.13 |
| 4 | 150 | 150.00 | 1,515.2 | Ladder Peak | 56.01 |
| 5 | 200 | 150.00 | 1,136.4 | Ladder Peak | 60.81 |
| 6 | 300 | 150.00 | 757.6 | Ladder Peak | 70.15 |
| 7 | 400 | 150.00 | 568.2 | Ladder Peak | 78.09 |
| 8 | 500 | 150.00 | 454.5 | Ladder Peak | 83.68 |
| 9 | 600 | 150.00 | 378.8 | Ladder Peak | 88.48 |
| 10 | 700 | 150.00 | 324.7 | Ladder Peak | 91.44 |
| 11 | 1,000 | 150.00 | 227.3 | Ladder Peak | 95.43 |
| 12 | 2,000 | 150.00 | 113.6 | Ladder Peak | 101.30 |
| 13 | 3,000 | 150.00 | 75.8 | Ladder Peak | 104.36 |
| 14 | 7,000 | 150.00 | 32.5 | Ladder Peak | 109.52 |
| 15 | 10,380 | 75.00 | 10.9 | Upper Marker | 113.00 |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-07-30\2019-07-30_002.xad

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Electropherogram Summary Continued ...



Overall Results for sample 1 : Glu-6 Library

Number of peaks found: 20 Corr. Area 1: 3,863.5
 Noise: 0.3

Peak table for sample 1 : Glu-6 Library

| 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 | 231 | 278.05 | 1,825.8 | | 63.68 |
| 3 | 248 | 253.72 | 1,550.8 | | 65.28 |
| 4 | 267 | 386.66 | 2,197.7 | | 67.03 |
| 5 | 271 | 154.03 | 860.4 | | 67.47 |
| 6 | 283 | 177.96 | 953.9 | | 68.53 |
| 7 | 296 | 686.24 | 3,510.7 | | 69.80 |
| 8 | 329 | 329.10 | 1,517.9 | | 72.42 |
| 9 | 341 | 167.70 | 744.4 | | 73.44 |
| 10 | 352 | 164.38 | 706.9 | | 74.31 |
| 11 | 376 | 301.38 | 1,213.8 | | 76.20 |
| 12 | 404 | 368.17 | 1,379.4 | | 78.34 |
| 13 | 459 | 148.62 | 490.5 | | 81.40 |
| 14 | 500 | 170.79 | 517.6 | | 83.68 |
| 15 | 568 | 57.87 | 154.4 | | 86.93 |
| 16 | 604 | 27.60 | 69.3 | | 88.58 |
| 17 | 640 | 43.23 | 102.4 | | 89.65 |
| 18 | 704 | 58.91 | 126.7 | | 91.50 |
| 19 | 1,157 | 8.82 | 11.6 | | 96.35 |
| 20 | 1,471 | 2.42 | 2.5 | | 98.19 |
| 21 | 10,380 | 75.00 | 10.9 | Upper Marker | 113.00 |
| 22 | 13,165 | 0.00 | 0.0 | | 115.86 |

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Electropherogram Summary Continued ...

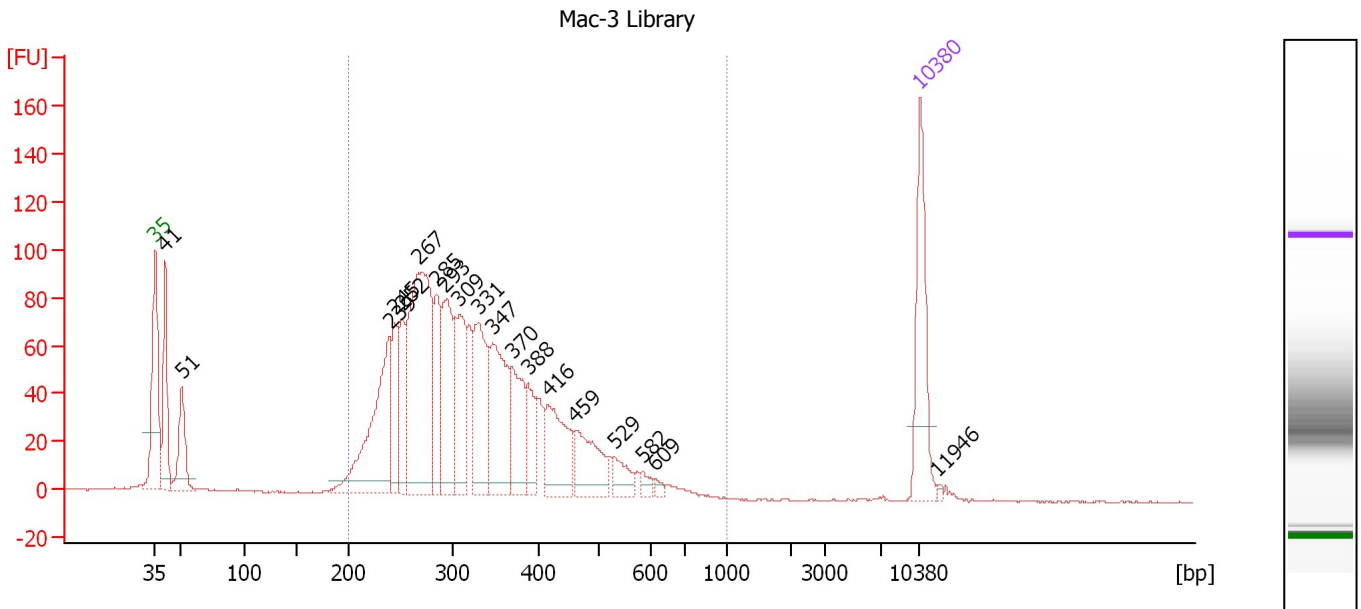
... Region table for sample 1 : Glu-6 Library

| 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 | 364 | 3,760.55 | 3,863.5 | 17,628.3 |  98 | 33.4 |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-07-30\2019-07-30_002.xad

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Electropherogram Summary Continued ...



Overall Results for sample 2 : Mac-3 Library

Number of peaks found: 19 Corr. Area 1: 1,861.3
 Noise: 0.3

Peak table for sample 2 : Mac-3 Library

| 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 | 41 | 109.21 | 4,043.6 | | 43.93 |
| 3 | 51 | 73.28 | 2,186.0 | | 45.44 |
| 4 | 239 | 182.91 | 1,158.2 | | 64.48 |
| 5 | 245 | 65.14 | 403.6 | | 64.97 |
| 6 | 252 | 61.67 | 371.1 | | 65.65 |
| 7 | 267 | 283.60 | 1,606.4 | | 67.11 |
| 8 | 285 | 73.86 | 393.0 | | 68.73 |
| 9 | 293 | 112.29 | 580.5 | | 69.51 |
| 10 | 309 | 101.09 | 495.6 | | 70.87 |
| 11 | 331 | 113.88 | 522.0 | | 72.58 |
| 12 | 347 | 119.48 | 521.4 | | 73.90 |
| 13 | 370 | 74.15 | 303.7 | | 75.71 |
| 14 | 388 | 37.71 | 147.3 | | 77.12 |
| 15 | 416 | 78.47 | 286.0 | | 78.98 |
| 16 | 459 | 63.14 | 208.2 | | 81.42 |
| 17 | 529 | 21.50 | 61.6 | | 85.08 |
| 18 | 582 | 8.62 | 22.4 | | 87.62 |
| 19 | 609 | 4.78 | 11.9 | | 88.74 |
| 20 | 10,380 | 75.00 | 10.9 | Upper Marker | 113.00 |
| 21 | 11,946 | 0.00 | 0.0 | | 114.61 |

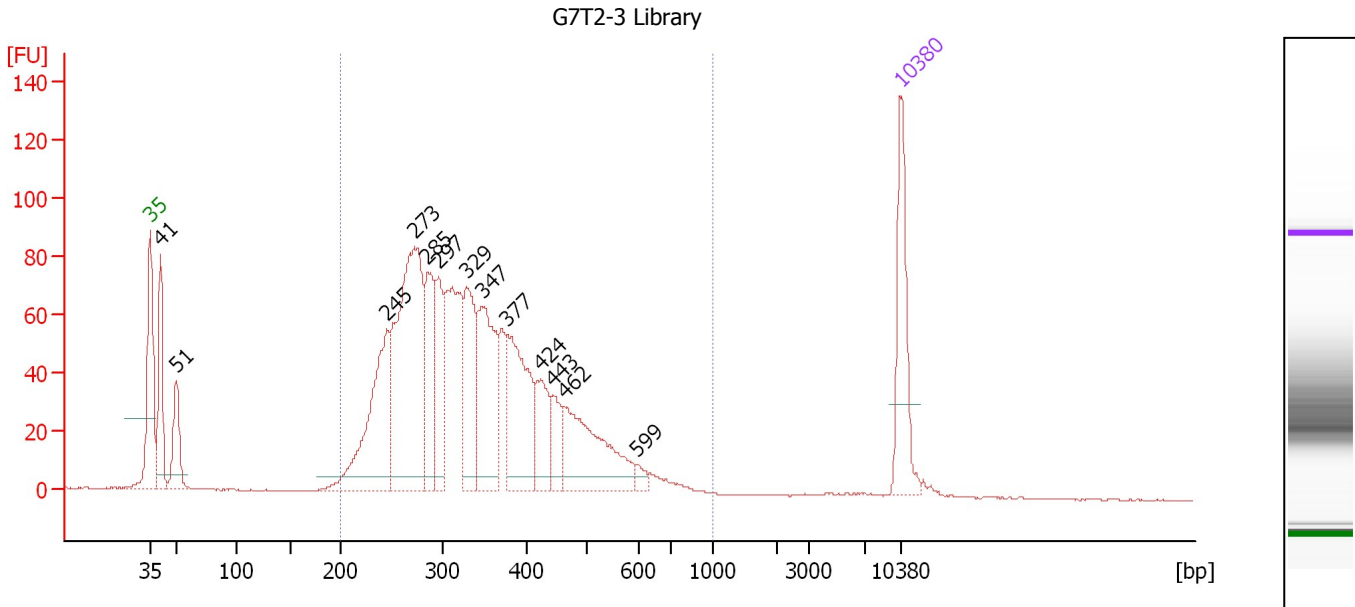
Region table for sample 2 : Mac-3 Library

| 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 | 334 | 1,461.79 | 1,861.3 | 7,213.6 | 91 | 26.9 |

Assay Class: High Sensitivity DNA Assay
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Electropherogram Summary Continued ...



Overall Results for sample 3 : G7T2-3 Library

Number of peaks found: 13 Corr. Area 1: 1,774.9
 Noise: 0.2

Peak table for sample 3 : G7T2-3 Library

| 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 | 41 | 108.73 | 4,015.2 | | 43.94 |
| 3 | 51 | 74.53 | 2,225.5 | | 45.43 |
| 4 | 245 | 194.51 | 1,200.5 | | 65.06 |
| 5 | 273 | 342.48 | 1,903.6 | | 67.59 |
| 6 | 285 | 111.73 | 593.3 | | 68.78 |
| 7 | 297 | 84.86 | 432.9 | | 69.88 |
| 8 | 329 | 112.79 | 519.4 | | 72.46 |
| 9 | 347 | 147.07 | 641.8 | | 73.90 |
| 10 | 377 | 145.38 | 584.9 | | 76.24 |
| 11 | 424 | 57.02 | 203.9 | | 79.42 |
| 12 | 443 | 34.98 | 119.6 | | 80.51 |
| 13 | 462 | 130.82 | 429.2 | | 81.55 |
| 14 | 599 | 8.44 | 21.4 | | 88.41 |
| 15 | 10,380 | 75.00 | 10.9 | Upper Marker | 113.00 |

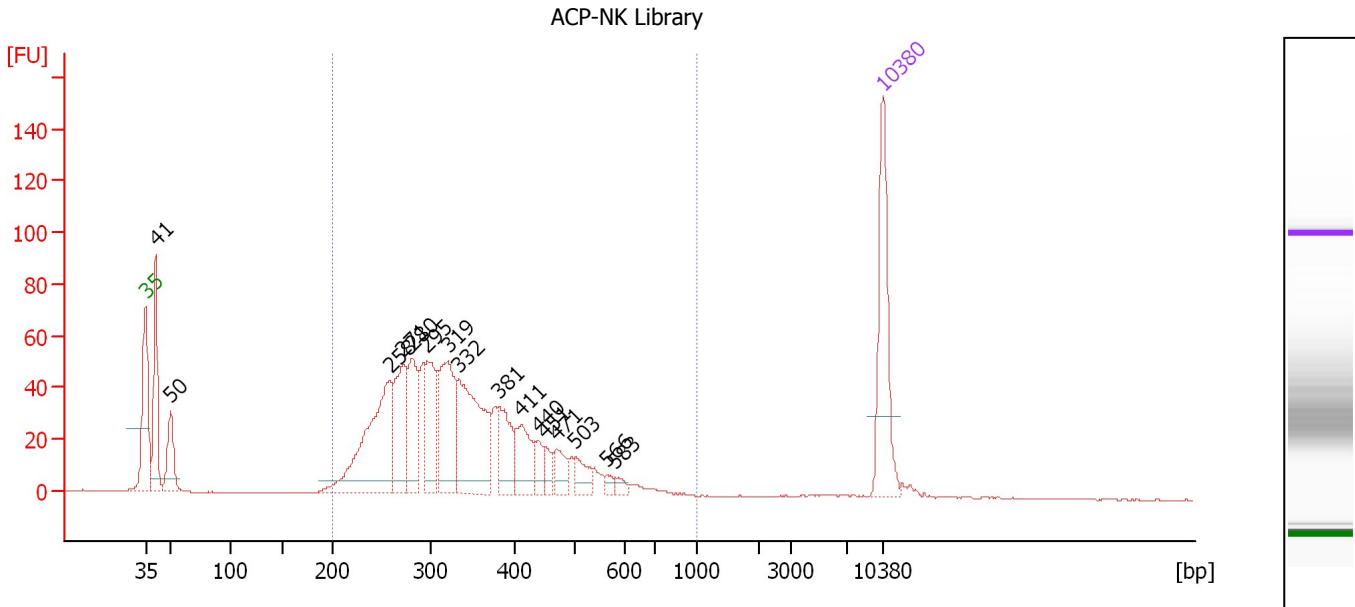
Region table for sample 3 : G7T2-3 Library

| 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 | 350 | 1,624.03 | 1,774.9 | 7,728.4 | 91 | 28.7 |

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Electropherogram Summary Continued ...



Overall Results for sample 4 : ACP-NK Library

Number of peaks found: 16 Corr. Area 1: 1,120.0
 Noise: 0.2

Peak table for sample 4 : ACP-NK Library

| 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 | 41 | 106.95 | 3,938.9 | | 43.96 |
| 3 | 50 | 54.25 | 1,635.4 | | 45.38 |
| 4 | 258 | 171.43 | 1,008.7 | | 66.18 |
| 5 | 271 | 78.83 | 440.7 | | 67.45 |
| 6 | 280 | 69.13 | 373.7 | | 68.31 |
| 7 | 295 | 66.67 | 341.9 | | 69.72 |
| 8 | 319 | 101.18 | 479.9 | | 71.70 |
| 9 | 332 | 135.73 | 619.1 | | 72.71 |
| 10 | 381 | 46.77 | 186.2 | | 76.56 |
| 11 | 411 | 45.00 | 166.1 | | 78.68 |
| 12 | 440 | 15.43 | 53.2 | | 80.30 |
| 13 | 451 | 11.72 | 39.3 | | 80.96 |
| 14 | 471 | 20.28 | 65.2 | | 82.07 |
| 15 | 503 | 18.17 | 54.7 | | 83.85 |
| 16 | 566 | 5.13 | 13.7 | | 86.83 |
| 17 | 583 | 5.83 | 15.2 | | 87.64 |
| 18 | 10,380 | 75.00 | 10.9 | Upper Marker | 113.00 |

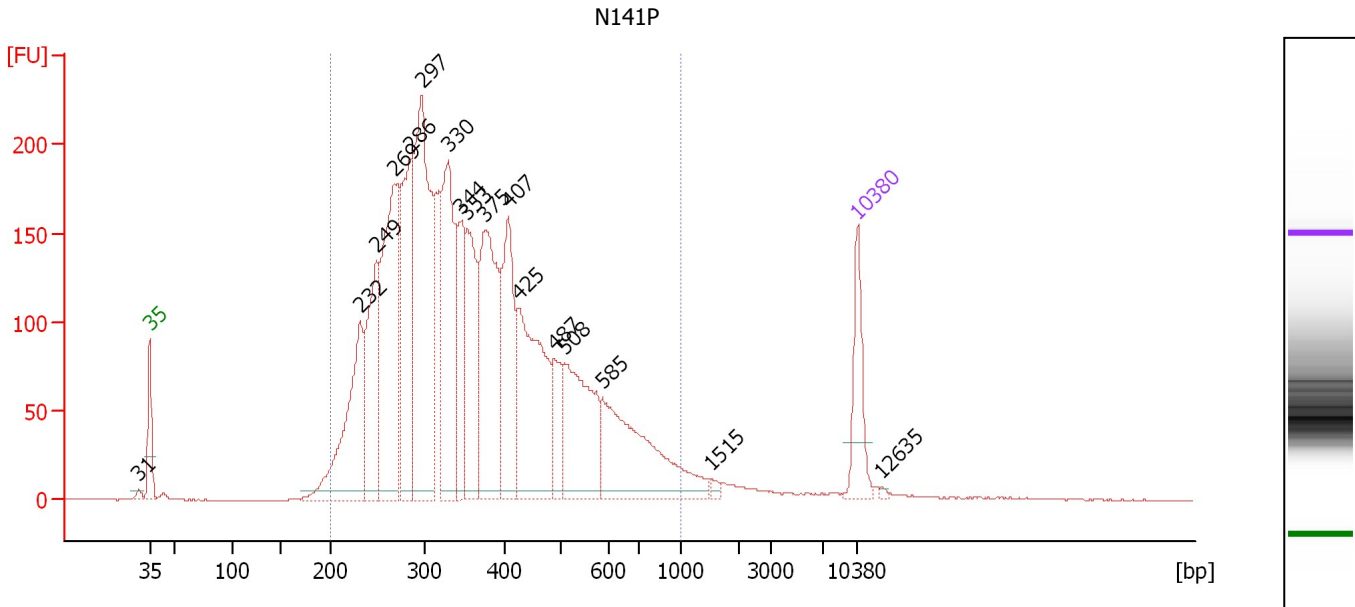
Region table for sample 4 : ACP-NK Library

| 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 | 345 | 907.42 | 1,120.0 | 4,350.8 | 87 | 27.7 |

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Electropherogram Summary Continued ...



Overall Results for sample 5 : N141P

Number of peaks found: 17 Corr. Area 1: 4,777.4
 Noise: 0.2

Peak table for sample 5 : N141P

| Peak | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations | Aligned Migration Time [s] |
|------|-----------|---------------|-------------------|--------------|----------------------------|
| 1 | 31 | 0.00 | 0.0 | | 41.95 |
| 2 | 35 | 125.00 | 5,411.3 | Lower Marker | 43.00 |
| 3 | 232 | 301.60 | 1,972.3 | | 63.77 |
| 4 | 249 | 241.69 | 1,469.7 | | 65.40 |
| 5 | 269 | 430.30 | 2,419.5 | | 67.30 |
| 6 | 286 | 275.03 | 1,455.1 | | 68.88 |
| 7 | 297 | 533.28 | 2,719.7 | | 69.88 |
| 8 | 330 | 299.66 | 1,376.8 | | 72.52 |
| 9 | 344 | 155.78 | 685.4 | | 73.68 |
| 10 | 353 | 209.54 | 899.4 | | 74.36 |
| 11 | 375 | 311.27 | 1,257.9 | | 76.10 |
| 12 | 407 | 212.35 | 790.9 | | 78.47 |
| 13 | 425 | 313.37 | 1,117.9 | | 79.48 |
| 14 | 487 | 72.05 | 224.2 | | 82.95 |
| 15 | 508 | 231.35 | 690.2 | | 84.06 |
| 16 | 585 | 262.47 | 679.9 | | 87.75 |
| 17 | 1,515 | 6.83 | 6.8 | | 98.45 |
| 18 | 10,380 | 75.00 | 10.9 | Upper Marker | 113.00 |
| 19 | 12,635 | 0.00 | 0.0 | | 115.32 |

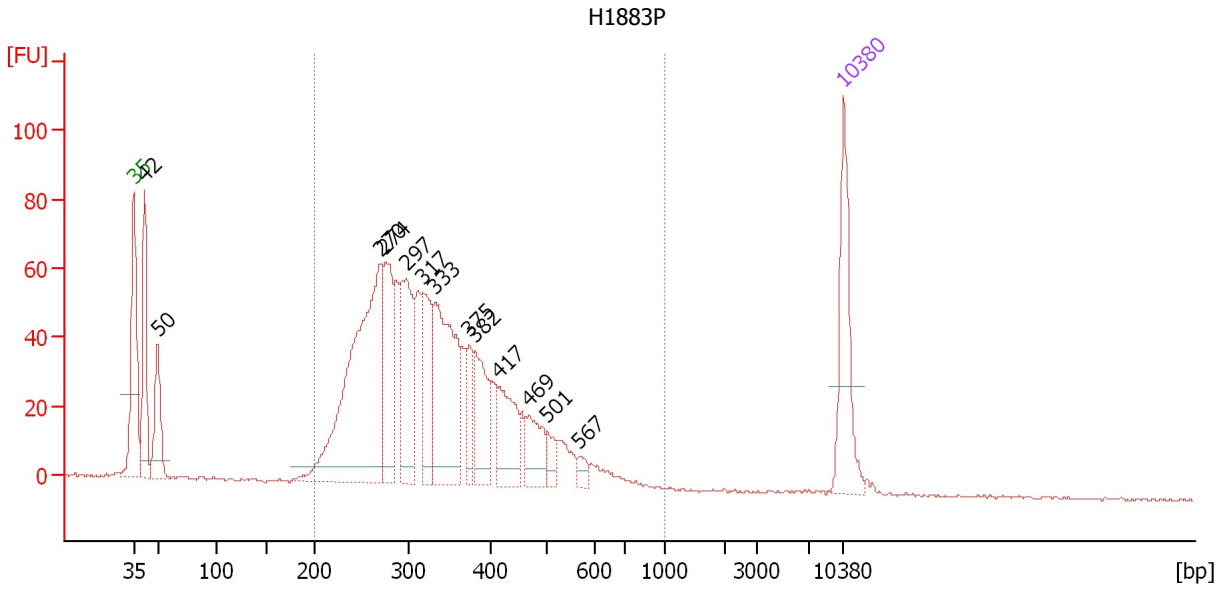
Region table for sample 5 : N141P

| 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 | 379 | 3,955.11 | 4,777.4 | 18,088.0 | 96 | 35.3 |

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Electropherogram Summary Continued ...



Overall Results for sample 6 : H1883P

Number of peaks found: 13 Corr. Area 1: 1,327.1
 Noise: 0.4

Peak table for sample 6 : H1883P

| 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 | 42 | 122.37 | 4,445.2 | | 44.05 |
| 3 | 50 | 84.12 | 2,542.0 | | 45.36 |
| 4 | 270 | 366.20 | 2,056.4 | | 67.33 |
| 5 | 274 | 113.10 | 624.7 | | 67.75 |
| 6 | 297 | 126.49 | 645.8 | | 69.85 |
| 7 | 317 | 79.71 | 380.5 | | 71.54 |
| 8 | 333 | 184.21 | 839.1 | | 72.74 |
| 9 | 375 | 34.85 | 140.8 | | 76.11 |
| 10 | 382 | 71.91 | 285.0 | | 76.69 |
| 11 | 417 | 67.90 | 246.6 | | 79.05 |
| 12 | 469 | 42.54 | 137.5 | | 81.94 |
| 13 | 501 | 16.71 | 50.5 | | 83.73 |
| 14 | 567 | 9.92 | 26.5 | | 86.88 |
| 15 | 10,380 | 75.00 | 10.9 | Upper Marker | 113.00 |

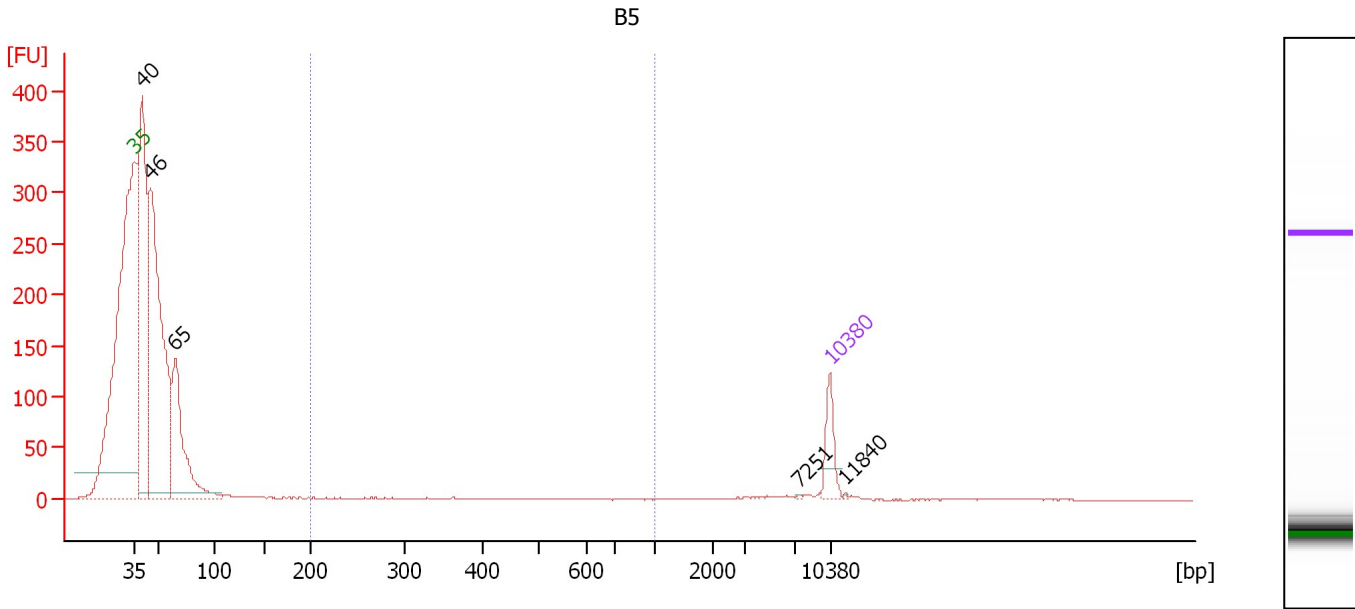
Region table for sample 6 : H1883P

| 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 | 342 | 1,347.73 | 1,327.1 | 6,508.3 | 89 | 27.3 |

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Electropherogram Summary Continued ...



Overall Results for sample 7 : B5

Number of peaks found: 5 Corr. Area 1: 24.5
 Noise: 0.2

Peak table for sample 7 : B5

| 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 | 40 | 1,308.52 | 49,394.9 | | 43.80 |
| 3 | 46 | 1,711.00 | 56,828.4 | | 44.66 |
| 4 | 65 | 604.24 | 13,996.0 | | 47.13 |
| 5 | 7,251 | 2.28 | 0.5 | | 109.78 |
| 6 | 10,380 | 75.00 | 10.9 | Upper Marker | 113.00 |
| 7 | 11,840 | 0.00 | 0.0 | | 114.50 |

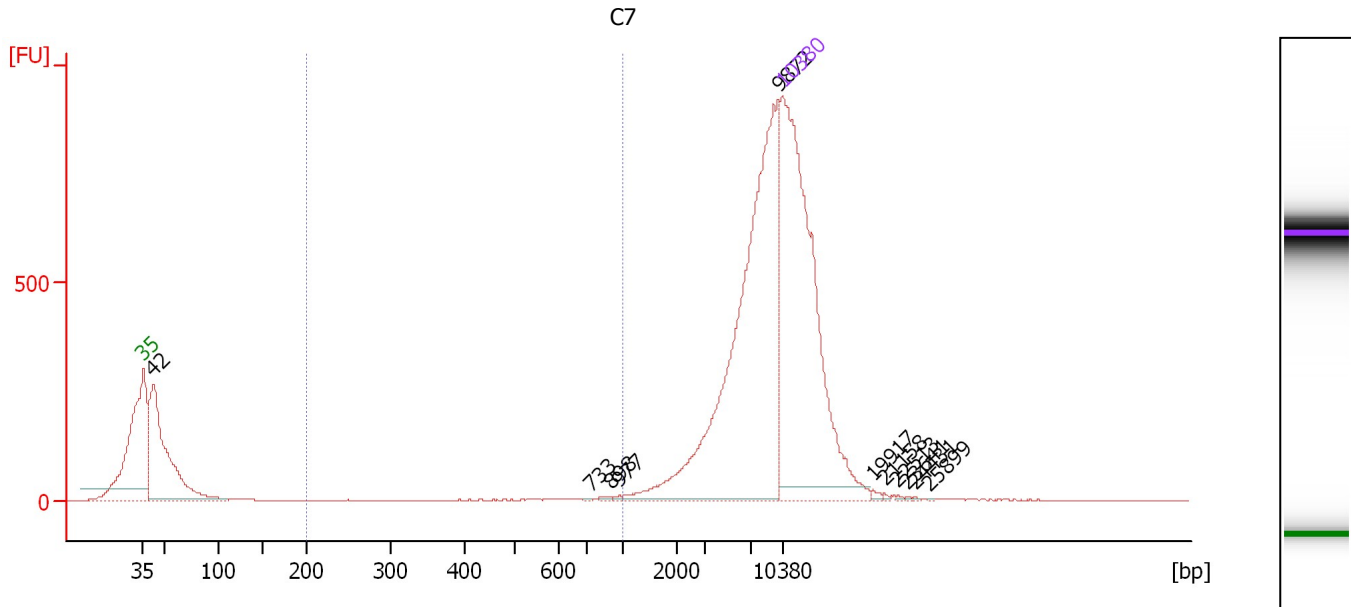
Region table for sample 7 : B5

| 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 | 396 | 26.99 | 24.5 | 127.8 | 1 | 44.5 |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-07-30\2019-07-30_002.xad

Created: 7/30/2019 1:50:26 PM
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Electropherogram Summary Continued ...



Overall Results for sample 8 : C7

Number of peaks found: 11 Corr. Area 1: 85.9
 Noise: 0.3

Peak table for sample 8 : C7

| 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 | 42 | 60.87 | 2,193.6 | | 44.10 |
| 3 | 733 | 0.15 | 0.3 | | 91.87 |
| 4 | 898 | 0.30 | 0.5 | | 94.08 |
| 5 | 977 | 0.29 | 0.4 | | 95.12 |
| 6 | 9,872 | 90.63 | 13.9 | | 112.48 |
| 7 | 10,380 | 75.00 | 10.9 | Upper Marker | 113.00 |
| 8 | 19,917 | 0.00 | 0.0 | | 122.81 |
| 9 | 21,158 | 0.00 | 0.0 | | 124.09 |
| 10 | 22,513 | 0.00 | 0.0 | | 125.48 |
| 11 | 23,641 | 0.00 | 0.0 | | 126.64 |
| 12 | 24,431 | 0.00 | 0.0 | | 127.45 |
| 13 | 25,899 | 0.00 | 0.0 | | 128.96 |

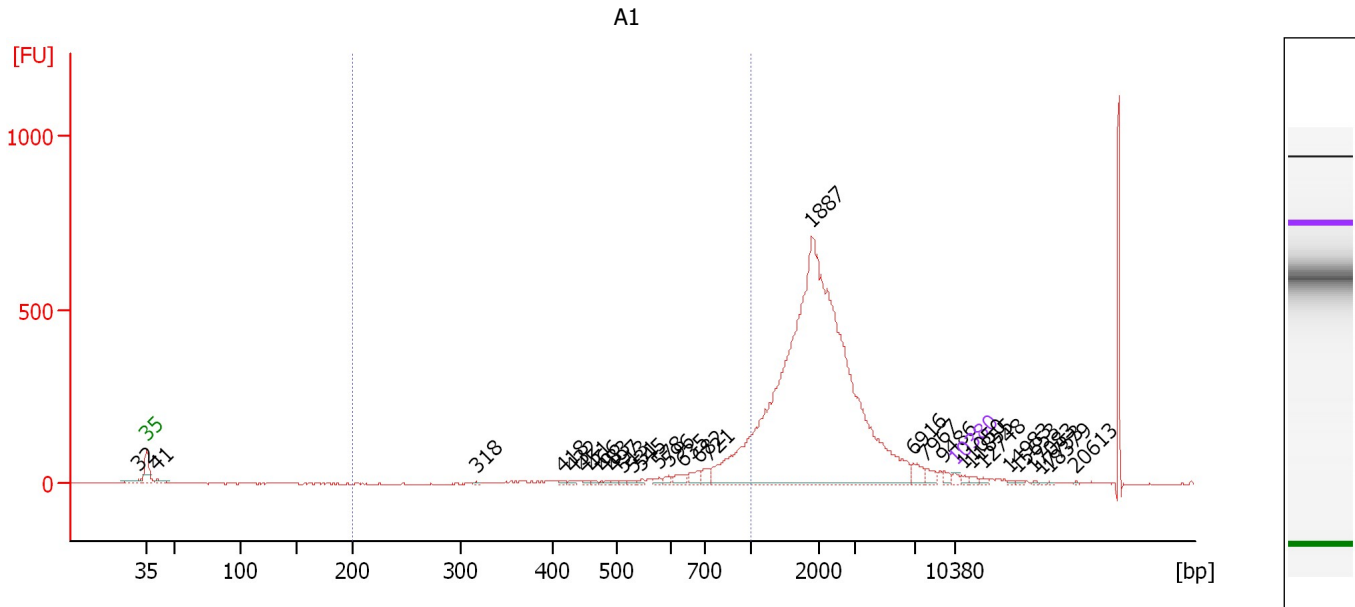
Region table for sample 8 : C7

| 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 | 644 | 2.56 | 85.9 | 7.7 | 2 | 34.4 |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-07-30\2019-07-30_002.xad

Created: 7/30/2019 1:50:26 PM
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Electropherogram Summary Continued ...



Overall Results for sample 9 : A1

Number of peaks found: 30 Corr. Area 1: 622.0
 Noise: 0.5

Peak table for sample 9 : A1

| Peak | Size [bp] | Conc. [pg/μl] | Molarity [pmol/l] | Observations | Aligned Migration Time [s] |
|------|-----------|---------------|-------------------|--------------|----------------------------|
| 1 | 32 | 0.00 | 0.0 | | 42.26 |
| 2 | 35 | 125.00 | 5,411.3 | Lower Marker | 43.00 |
| 3 | 41 | 200.02 | 7,415.1 | | 43.92 |
| 4 | 318 | 15.11 | 72.0 | | 71.59 |
| 5 | 418 | 30.17 | 109.2 | | 79.13 |
| 6 | 432 | 38.43 | 134.9 | | 79.86 |
| 7 | 451 | 34.95 | 117.3 | | 80.96 |
| 8 | 466 | 30.23 | 98.2 | | 81.79 |
| 9 | 483 | 44.20 | 138.5 | | 82.76 |
| 10 | 497 | 31.10 | 94.9 | | 83.49 |
| 11 | 513 | 31.61 | 93.3 | | 84.32 |
| 12 | 531 | 56.43 | 160.9 | | 85.19 |
| 13 | 545 | 46.65 | 129.7 | | 85.84 |
| 14 | 578 | 73.46 | 192.7 | | 87.40 |
| 15 | 596 | 80.46 | 204.6 | | 88.27 |
| 16 | 635 | 168.74 | 402.6 | | 89.51 |
| 17 | 682 | 182.21 | 405.0 | | 90.89 |
| 18 | 721 | 182.16 | 382.6 | | 91.72 |
| 19 | 1,887 | 17,775.21 | 14,275.3 | | 100.64 |
| 20 | 6,916 | 238.45 | 52.2 | | 109.41 |
| 21 | 7,967 | 139.29 | 26.5 | | 110.52 |
| 22 | 9,486 | 89.94 | 14.4 | | 112.08 |
| 23 | 10,380 | 75.00 | 10.9 | Upper Marker | 113.00 |
| 24 | 11,050 | 0.00 | 0.0 | | 113.69 |
| 25 | 11,855 | 0.00 | 0.0 | | 114.52 |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-07-30\2019-07-30_002.xad


Created: 7/30/2019 1:50:26 PM
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Electropherogram Summary Continued ...

... Peak table for sample 9 : A1

| Peak | Size [bp] | Conc. [pg/ μ l] | Molarity [pmol/l] | Observations | Aligned Migration Time [s] |
|------|-----------|---------------------|-------------------|--------------|----------------------------|
| 26 | 12,748 | 0.00 | 0.0 | | 115.44 |
| 27 | 14,983 | 0.00 | 0.0 | | 117.73 |
| 28 | 15,653 | 0.00 | 0.0 | | 118.42 |
| 29 | 17,083 | 0.00 | 0.0 | | 119.89 |
| 30 | 17,753 | 0.00 | 0.0 | | 120.58 |
| 31 | 18,379 | 0.00 | 0.0 | | 121.23 |
| 32 | 20,613 | 0.00 | 0.0 | | 123.53 |

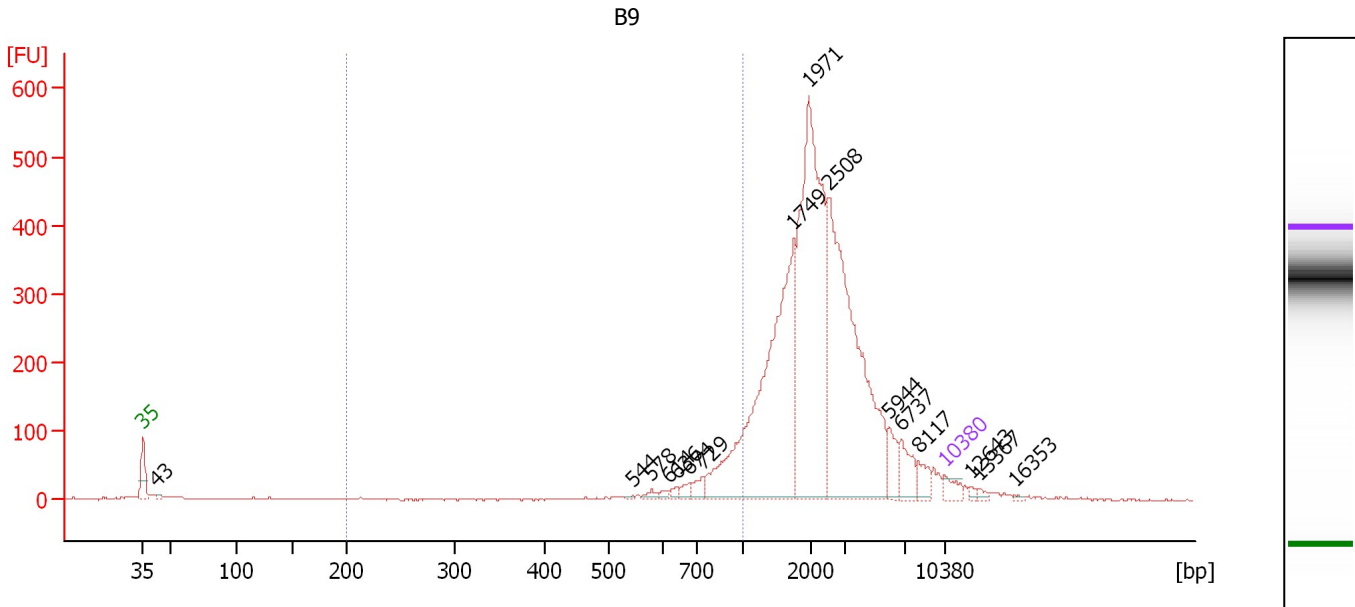
Region table for sample 9 : A1

| 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 | 753 | 2,779.77 | 622.0 | 6,232.6 |  11 | 24.2 |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-07-30\2019-07-30_002.xad

Created: 7/30/2019 1:50:26 PM
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Electropherogram Summary Continued ...



Overall Results for sample 10 : B9

Number of peaks found: 16 Corr. Area 1: 332.8
 Noise: 1.0

Peak table for sample 10 : B9

| 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 | 43 | 23.39 | 829.6 | | 44.21 |
| 3 | 544 | 9.58 | 26.7 | | 85.77 |
| 4 | 578 | 33.72 | 88.5 | | 87.40 |
| 5 | 614 | 27.89 | 68.8 | | 88.89 |
| 6 | 636 | 29.01 | 69.1 | | 89.54 |
| 7 | 674 | 56.82 | 127.8 | | 90.66 |
| 8 | 729 | 78.50 | 163.1 | | 91.82 |
| 9 | 1,749 | 2,162.26 | 1,873.1 | | 99.83 |
| 10 | 1,971 | 2,238.81 | 1,721.0 | | 101.13 |
| 11 | 2,508 | 2,214.57 | 1,337.8 | | 102.85 |
| 12 | 5,944 | 157.69 | 40.2 | | 108.16 |
| 13 | 6,737 | 175.28 | 39.4 | | 109.18 |
| 14 | 8,117 | 101.34 | 18.9 | | 110.67 |
| 15 | 10,380 | 75.00 | 10.9 | Upper Marker | 113.00 |
| 16 | 12,643 | 0.00 | 0.0 | | 115.33 |
| 17 | 13,367 | 0.00 | 0.0 | | 116.07 |
| 18 | 16,353 | 0.00 | 0.0 | | 119.14 |

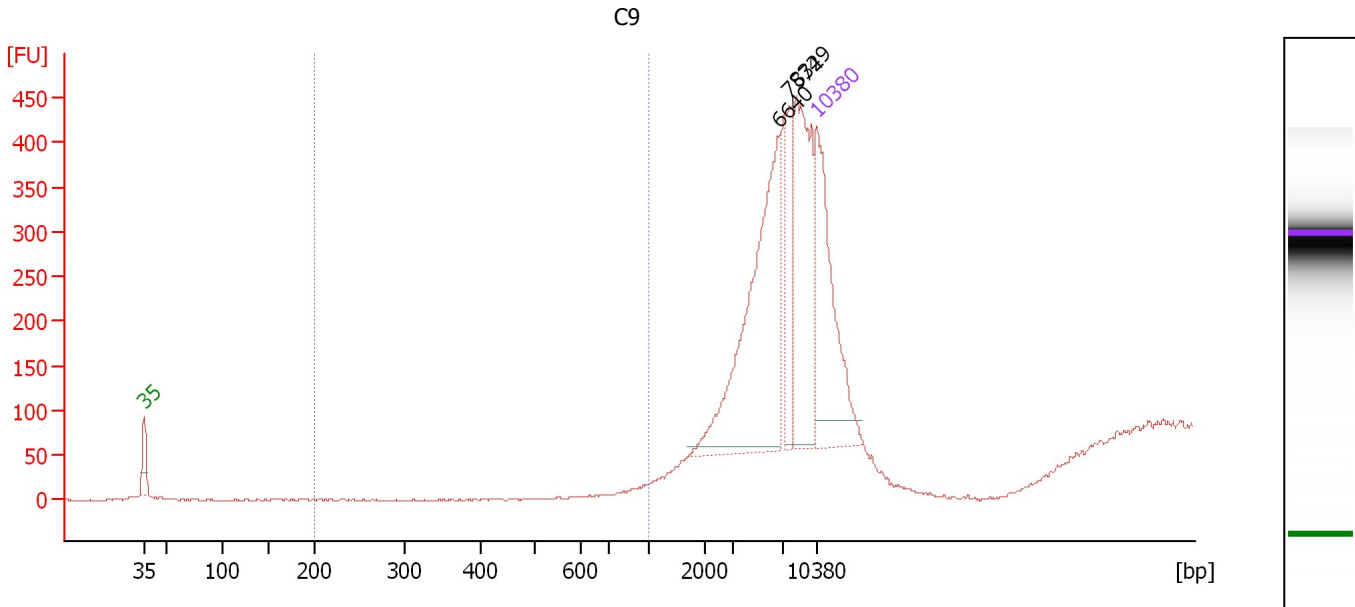
Region table for sample 10 : B9

| 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 | 811 | 649.16 | 332.8 | 1,259.5 | 7 | 16.7 |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-07-30\2019-07-30_002.xad

Created: 7/30/2019 1:50:26 PM
 Modified: 7/30/2019 2:30:47 PM

Electropherogram Summary Continued ...



Overall Results for sample 11 : C9

Number of peaks found: 3 Corr. Area 1: 0.0
 Noise: 0.8

Peak table for sample 11 : C9

| 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 | 6,640 | 131.42 | 30.0 | | 109.06 |
| 3 | 7,574 | 32.57 | 6.5 | | 110.11 |
| 4 | 8,329 | 77.96 | 14.2 | | 110.89 |
| 5 | 10,380 | 75.00 | 10.9 | Upper Marker | 113.00 |

Region table for sample 11 : C9

| 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 |

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2019-07-30\2019-07-30_002.xad

Created: 7/30/2019 1:50:26 PM
Modified: 7/30/2019 2:30:47 PM

Gel Image

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-07-30\2019-07-30_002.xad

Created: 7/30/2019 1:50:26 PM
 Modified: 7/30/2019 2:30:47 PM

Run Logbook

| Description | Number | Source | Category | Sub Category | Time | Time Zone | User | Host |
|--|--------|------------|----------|--------------|----------------------|-------------------------------------|----------|----------|
| Run ended on port 1 (Number of wells acquired: 12) | | Instrument | Run | | 7/30/2019 2:30:47 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\2019-07-30\2019-07-30_002.xad) | | Instrument | Run | | 7/30/2019 1:50:27 PM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Product Number : G2938C | | Instrument | Run | | 7/30/2019 1:50:27 PM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Name : | | Instrument | Run | | 7/30/2019 1:50:27 PM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Vendor : Agilent Technologies | | Instrument | Run | | 7/30/2019 1:50:27 PM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Serial# : DE34903152 | | Instrument | Run | | 7/30/2019 1:50:27 PM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Firmware : C.01.069 | | Instrument | Run | | 7/30/2019 1:50:27 PM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Cartridge : Electrode | | Instrument | Run | | 7/30/2019 1:50:26 PM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |