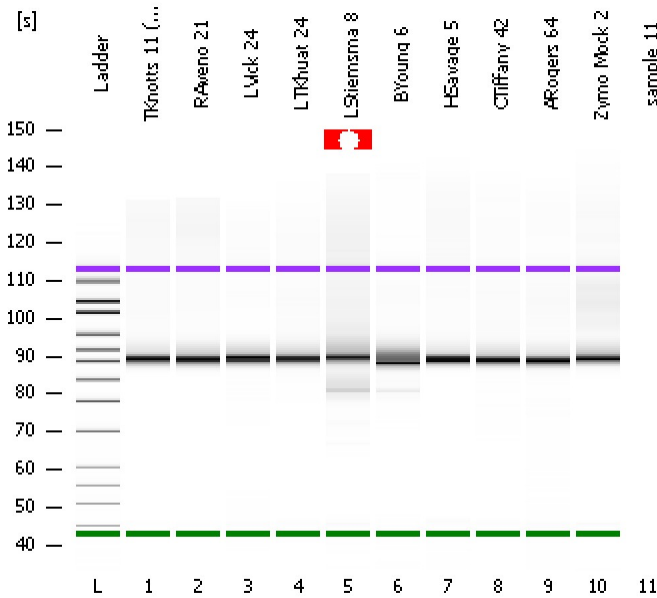


Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2019-09-11\2019-09-11_004.xad

Created: 9/11/2019 12:26:23 PM
Modified: 9/11/2019 1:04:56 PM

Electrophoresis File Run Summary



Instrument Information:

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

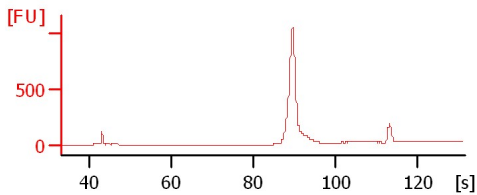
Assay Information:

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

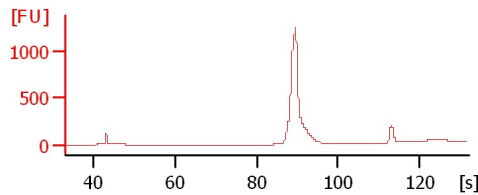
Chip Information:

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

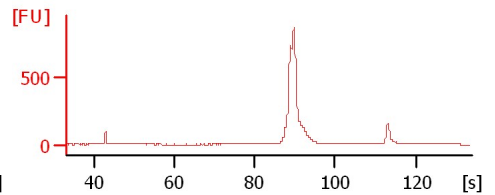
TKnotts 11 (Boenig)



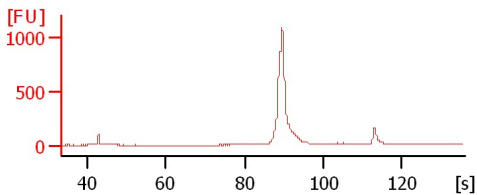
RAveno 21



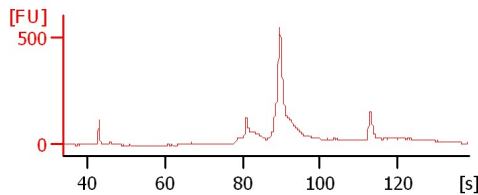
LVick 24



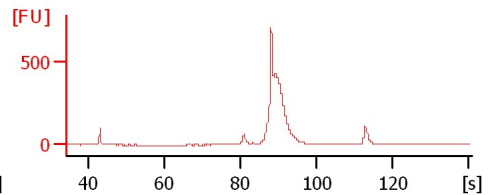
LTKhuat 24



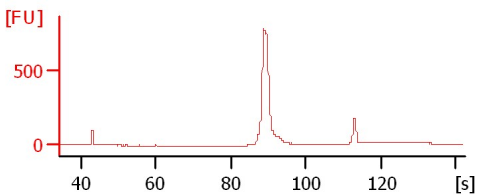
LStiemsma 8



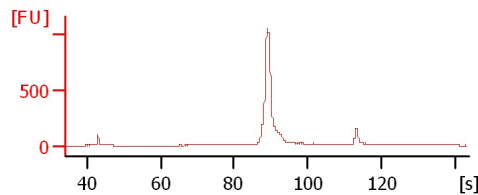
BYoung 6



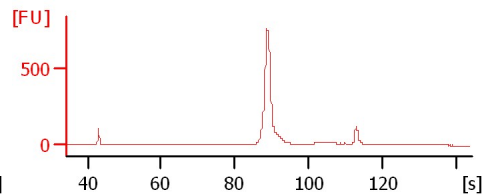
HSavage 5



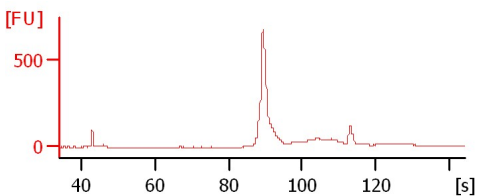
CTiffany 42



ARogers 64



Zymo Mock 2



Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2019-09-11\2019-09-11_004.xad

Created: 9/11/2019 12:26:23 PM
Modified: 9/11/2019 1:04:56 PM

Electrophoresis File Run Summary (Chip Summary)

| Sample Name | Sample Comment | Rest. Digest | Status | Observation | Result Label | Result Color |
|---------------------|----------------|--------------------------|--------|-------------|--------------|--------------|
| TKnotts 11 (Boenig) | | <input type="checkbox"/> | ✓ | | | |
| RAveno 21 | | <input type="checkbox"/> | ✓ | | | |
| LVick 24 | | <input type="checkbox"/> | ✓ | | | |
| LTKhuat 24 | | <input type="checkbox"/> | ✓ | | | |
| LStiemsma 8 | | <input type="checkbox"/> | ⚠ | | | |
| BYoung 6 | | <input type="checkbox"/> | ✓ | | | |
| HSavage 5 | | <input type="checkbox"/> | ✓ | | | |
| CTiffany 42 | | <input type="checkbox"/> | ✓ | | | |
| ARogers 64 | | <input type="checkbox"/> | ✓ | | | |
| Zymo Mock 2 | | <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\2019-09-11\2019-09-11_004.xad

Created: 9/11/2019 12:26:23 PM
Modified: 9/11/2019 1:04:56 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

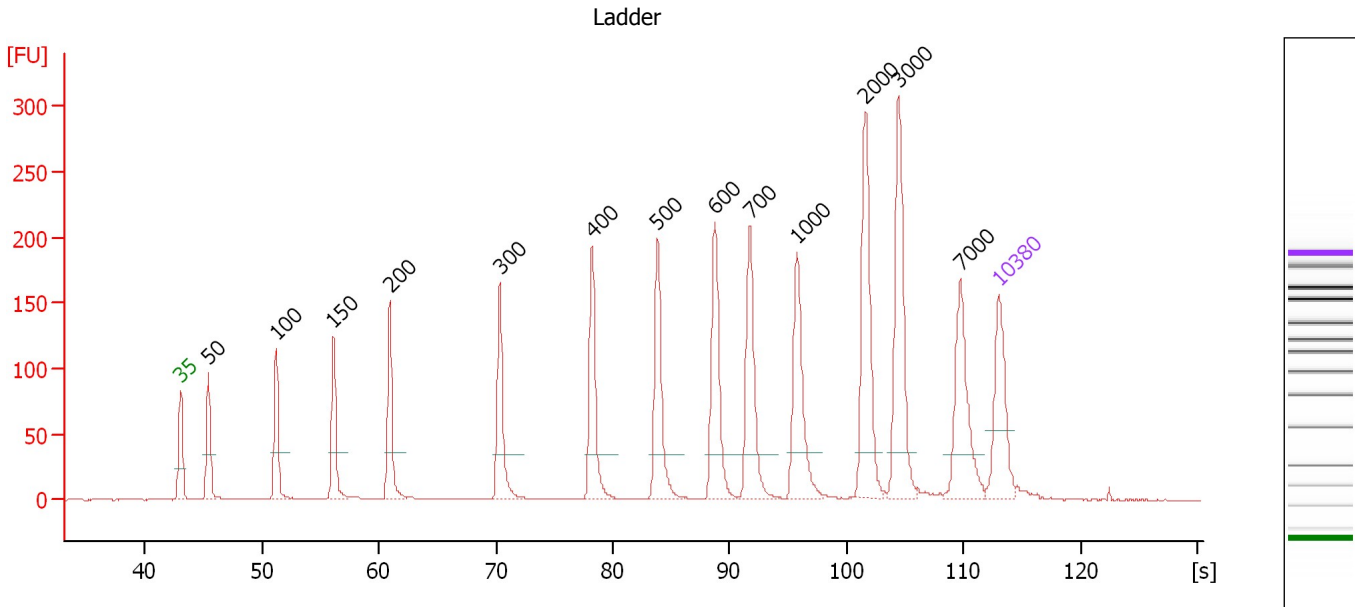
Ladder

| 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\2019-09-11\2019-09-11_004.xad

Created: 9/11/2019 12:26:23 PM
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Electropherogram Summary



Overall Results for Ladder

Noise: 0.2

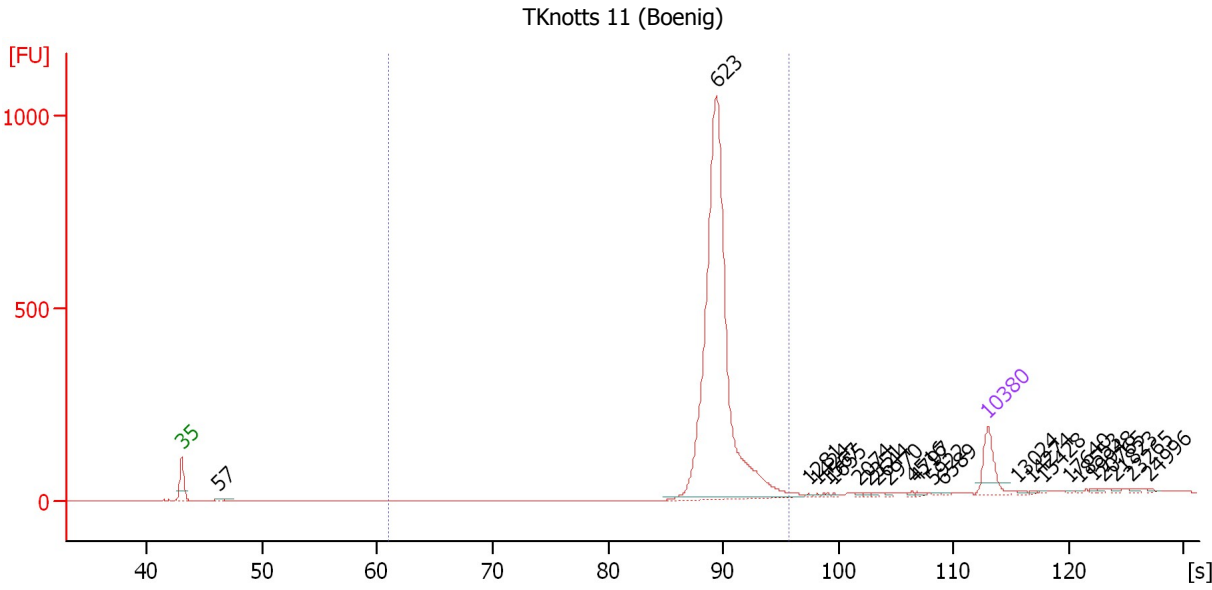
Peak table for Ladder

| 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 | 45.39 |
| 3 | 100 | 150.00 | 2,272.7 | Ladder Peak | 51.18 |
| 4 | 150 | 150.00 | 1,515.2 | Ladder Peak | 56.09 |
| 5 | 200 | 150.00 | 1,136.4 | Ladder Peak | 60.91 |
| 6 | 300 | 150.00 | 757.6 | Ladder Peak | 70.33 |
| 7 | 400 | 150.00 | 568.2 | Ladder Peak | 78.23 |
| 8 | 500 | 150.00 | 454.5 | Ladder Peak | 83.83 |
| 9 | 600 | 150.00 | 378.8 | Ladder Peak | 88.75 |
| 10 | 700 | 150.00 | 324.7 | Ladder Peak | 91.73 |
| 11 | 1,000 | 150.00 | 227.3 | Ladder Peak | 95.78 |
| 12 | 2,000 | 150.00 | 113.6 | Ladder Peak | 101.61 |
| 13 | 3,000 | 150.00 | 75.8 | Ladder Peak | 104.46 |
| 14 | 7,000 | 150.00 | 32.5 | Ladder Peak | 109.74 |
| 15 | 10,380 | 75.00 | 10.9 | Upper Marker | 113.00 |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-09-11\2019-09-11_004.xad

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 Modified: 9/11/2019 1:04:56 PM

Electropherogram Summary Continued ...



Overall Results for sample 1 : TKnotts 11 (Boenig)

Number of peaks found: 24 Corr. Area 1: 2,474.9
 Noise: 0.3

Peak table for sample 1 : TKnotts 11 (Boenig)

| 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 | 57 | 10.31 | 272.0 | | 46.25 |
| 3 | 623 | 1,452.21 | 3,531.8 | | 89.43 |
| 4 | 1,281 | 2.80 | 3.3 | | 97.41 |
| 5 | 1,424 | 2.82 | 3.0 | | 98.25 |
| 6 | 1,567 | 4.01 | 3.9 | | 99.08 |
| 7 | 1,655 | 3.00 | 2.7 | | 99.59 |
| 8 | 2,074 | 2.91 | 2.1 | | 101.82 |
| 9 | 2,351 | 3.18 | 2.1 | | 102.61 |
| 10 | 2,644 | 2.93 | 1.7 | | 103.44 |
| 11 | 2,970 | 3.42 | 1.7 | | 104.37 |
| 12 | 4,516 | 3.55 | 1.2 | | 106.46 |
| 13 | 4,797 | 3.70 | 1.2 | | 106.83 |
| 14 | 5,922 | 2.63 | 0.7 | | 108.31 |
| 15 | 6,589 | 2.57 | 0.6 | | 109.20 |
| 16 | 10,380 | 75.00 | 10.9 | Upper Marker | 113.00 |
| 17 | 13,024 | 0.00 | 0.0 | | 115.55 |
| 18 | 14,274 | 0.00 | 0.0 | | 116.76 |
| 19 | 15,428 | 0.00 | 0.0 | | 117.87 |
| 20 | 17,640 | 0.00 | 0.0 | | 120.00 |
| 21 | 18,553 | 0.00 | 0.0 | | 120.89 |
| 22 | 19,948 | 0.00 | 0.0 | | 122.23 |
| 23 | 20,765 | 0.00 | 0.0 | | 123.02 |
| 24 | 21,823 | 0.00 | 0.0 | | 124.04 |
| 25 | 23,265 | 0.00 | 0.0 | | 125.43 |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-09-11\2019-09-11_004.xad


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 Modified: 9/11/2019 1:04:56 PM

Electropherogram Summary Continued ...

... Peak table for sample 1 : TKnotts 11 (Boenig)

| Peak | Size [bp] | Conc. [pg/ μ l] | Molarity [pmol/l] | Observations | Aligned Migration Time [s] |
|------|-----------|---------------------|-------------------|--------------|----------------------------|
| 26 | 24,996 | 0.00 | 0.0 | | 127.10 |

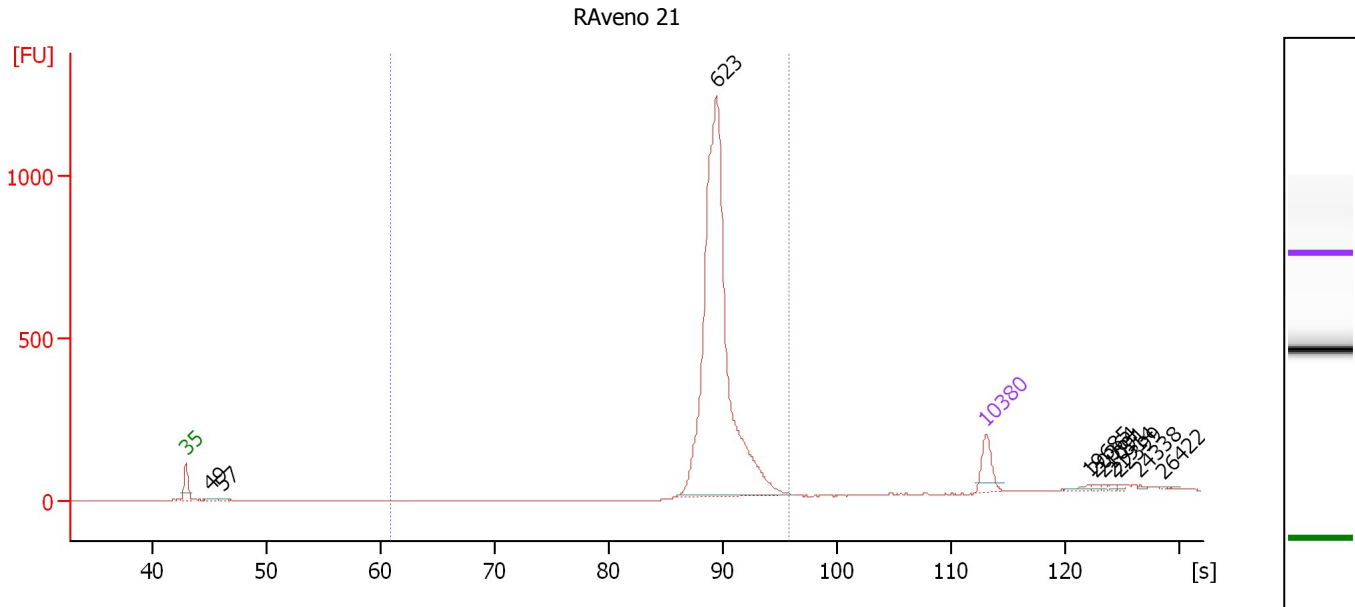
Region table for sample 1 : TKnotts 11 (Boenig)

| From [s] | To [s] | Average Size [bp] | Conc. [pg/ μ l] | Corr. Area | Molarity [pmol/l] | Co % of lor Total | Size distribution in CV [%] |
|----------|--------|-------------------|---------------------|------------|-------------------|--|-----------------------------|
| 60.91 | 95.78 | 635 | 1,384.34 | 2,474.9 | 3,323.1 |  95 | 8.8 |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-09-11\2019-09-11_004.xad

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Electropherogram Summary Continued ...



Overall Results for sample 2 : RAveno 21

Number of peaks found: 10 Corr. Area 1: 3,204.8
 Noise: 0.5

Peak table for sample 2 : RAveno 21

| 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 | 49 | 14.97 | 467.7 | | 45.15 |
| 3 | 57 | 10.82 | 288.4 | | 46.18 |
| 4 | 623 | 1,918.40 | 4,666.1 | | 89.43 |
| 5 | 10,380 | 75.00 | 10.9 | Upper Marker | 113.00 |
| 6 | 19,685 | 0.00 | 0.0 | | 121.98 |
| 7 | 20,364 | 0.00 | 0.0 | | 122.63 |
| 8 | 21,091 | 0.00 | 0.0 | | 123.33 |
| 9 | 21,914 | 0.00 | 0.0 | | 124.13 |
| 10 | 22,399 | 0.00 | 0.0 | | 124.60 |
| 11 | 24,338 | 0.00 | 0.0 | | 126.47 |
| 12 | 26,422 | 0.00 | 0.0 | | 128.48 |

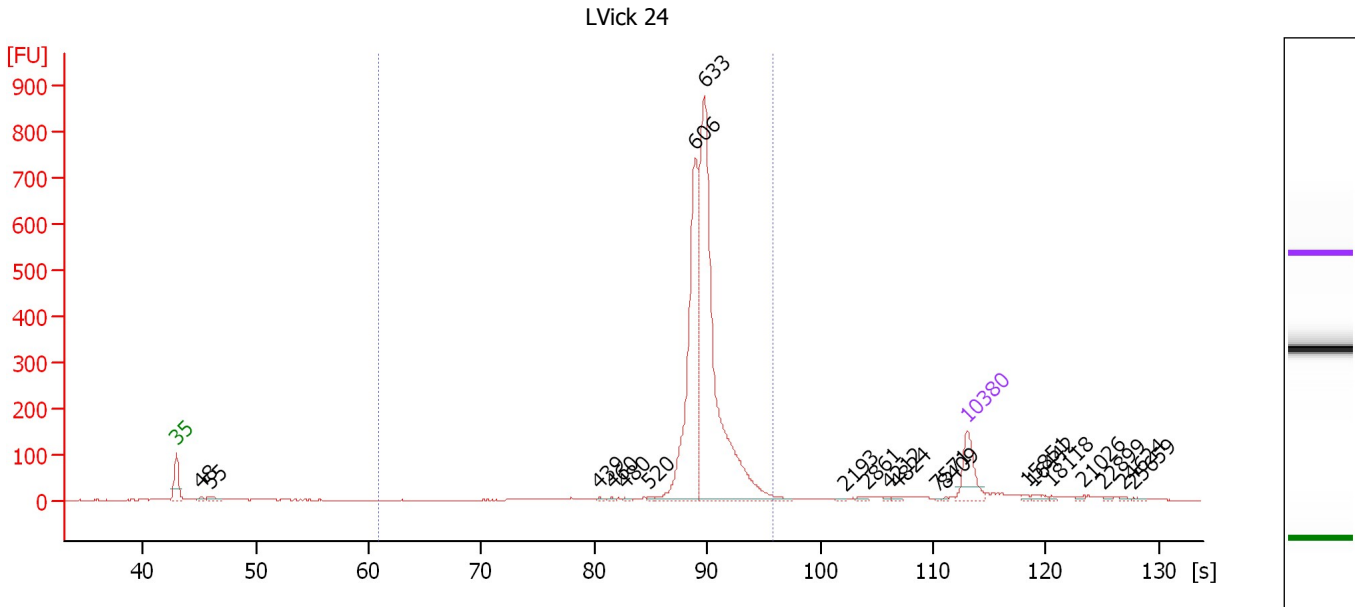
Region table for sample 2 : RAveno 21

| From [s] | To [s] | Average Size [bp] | Conc. [pg/μl] | Corr. Area | Molarity [pmol/l] | Co % of lor Total | Size distribution in CV [%] |
|----------|--------|-------------------|---------------|------------|-------------------|-------------------|-----------------------------|
| 60.91 | 95.78 | 634 | 1,893.15 | 3,204.8 | 4,552.0 | 97 | 8.6 |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-09-11\2019-09-11_004.xad

Created: 9/11/2019 12:26:23 PM
 Modified: 9/11/2019 1:04:56 PM

Electropherogram Summary Continued ...



Overall Results for sample 3 : LVick 24

Number of peaks found: 21 Corr. Area 1: 2,539.0
 Noise: 0.9

Peak table for sample 3 : LVick 24


| 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 | 48 | 9.39 | 293.9 | | 45.14 |
| 3 | 55 | 17.51 | 480.3 | | 46.00 |
| 4 | 439 | 3.00 | 10.4 | | 80.43 |
| 5 | 460 | 3.74 | 12.3 | | 81.57 |
| 6 | 480 | 3.67 | 11.6 | | 82.71 |
| 7 | 520 | 4.24 | 12.4 | | 84.80 |
| 8 | 606 | 548.16 | 1,369.7 | | 88.94 |
| 9 | 633 | 965.85 | 2,310.3 | | 89.75 |
| 10 | 2,193 | 2.50 | 1.7 | | 102.16 |
| 11 | 2,861 | 4.14 | 2.2 | | 104.06 |
| 12 | 4,212 | 2.93 | 1.1 | | 106.06 |
| 13 | 4,824 | 3.73 | 1.2 | | 106.87 |
| 14 | 7,571 | 1.58 | 0.3 | | 110.29 |
| 15 | 8,409 | 1.62 | 0.3 | | 111.10 |
| 16 | 10,380 | 75.00 | 10.9 | Upper Marker | 113.00 |
| 17 | 15,851 | 0.00 | 0.0 | | 118.28 |
| 18 | 16,442 | 0.00 | 0.0 | | 118.85 |
| 19 | 18,118 | 0.00 | 0.0 | | 120.47 |
| 20 | 21,026 | 0.00 | 0.0 | | 123.27 |
| 21 | 22,899 | 0.00 | 0.0 | | 125.08 |
| 22 | 24,624 | 0.00 | 0.0 | | 126.74 |
| 23 | 25,659 | 0.00 | 0.0 | | 127.74 |

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2019-09-11\2019-09-11_004.xad

Created: 9/11/2019 12:26:23 PM
Modified: 9/11/2019 1:04:56 PM

Electropherogram Summary Continued ...

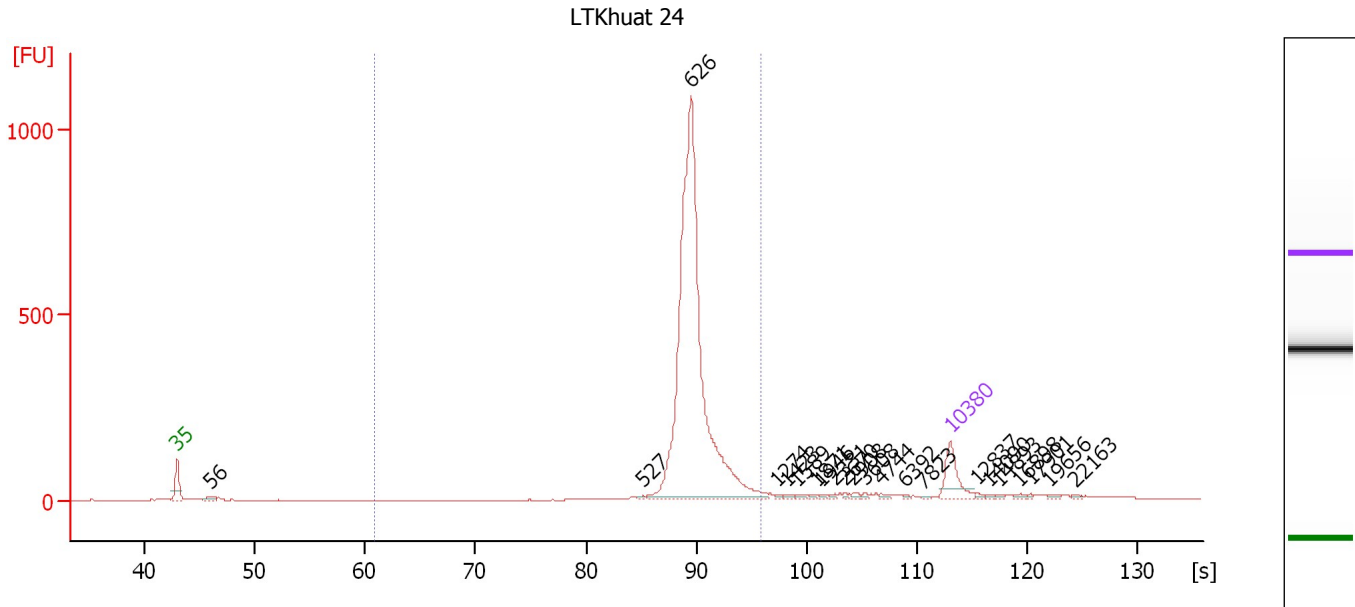
... Region table for sample 3 : LVick 24

| From [s] | To [s] | Average Size [bp] | Conc. [pg/ μ l] | Corr. Area | Molarity [pmol/l] | Co % of lor Total | Size distribution in CV [%] |
|----------|--------|-------------------|---------------------|------------|-------------------|--|-----------------------------|
| 60.91 | 95.78 | 638 | 1,554.26 | 2,539.0 | 3,755.5 |  89 | 11.4 |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-09-11\2019-09-11_004.xad

Created: 9/11/2019 12:26:23 PM
 Modified: 9/11/2019 1:04:56 PM

Electropherogram Summary Continued ...



Overall Results for sample 4 : LTKhuat 24

Number of peaks found: 22 Corr. Area 1: 2,793.7
 Noise: 0.8

Peak table for sample 4 : LTKhuat 24


| 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 | 56 | 15.20 | 413.4 | | 46.05 |
| 3 | 527 | 4.88 | 14.0 | | 85.18 |
| 4 | 626 | 1,497.88 | 3,622.8 | | 89.54 |
| 5 | 1,274 | 4.56 | 5.4 | | 97.37 |
| 6 | 1,423 | 6.53 | 7.0 | | 98.25 |
| 7 | 1,589 | 6.83 | 6.5 | | 99.21 |
| 8 | 1,871 | 3.75 | 3.0 | | 100.86 |
| 9 | 1,946 | 5.00 | 3.9 | | 101.29 |
| 10 | 2,331 | 4.93 | 3.2 | | 102.55 |
| 11 | 2,670 | 4.26 | 2.4 | | 103.52 |
| 12 | 2,908 | 6.01 | 3.1 | | 104.20 |
| 13 | 3,608 | 4.43 | 1.9 | | 105.26 |
| 14 | 4,744 | 6.64 | 2.1 | | 106.76 |
| 15 | 6,392 | 2.88 | 0.7 | | 108.94 |
| 16 | 7,823 | 3.25 | 0.6 | | 110.53 |
| 17 | 10,380 | 75.00 | 10.9 | Upper Marker | 113.00 |
| 18 | 12,837 | 0.00 | 0.0 | | 115.37 |
| 19 | 14,090 | 0.00 | 0.0 | | 116.58 |
| 20 | 14,893 | 0.00 | 0.0 | | 117.35 |
| 21 | 16,898 | 0.00 | 0.0 | | 119.29 |
| 22 | 17,901 | 0.00 | 0.0 | | 120.26 |
| 23 | 19,656 | 0.00 | 0.0 | | 121.95 |
| 24 | 22,163 | 0.00 | 0.0 | | 124.37 |

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2019-09-11\2019-09-11_004.xad

Created: 9/11/2019 12:26:23 PM
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Electropherogram Summary Continued ...

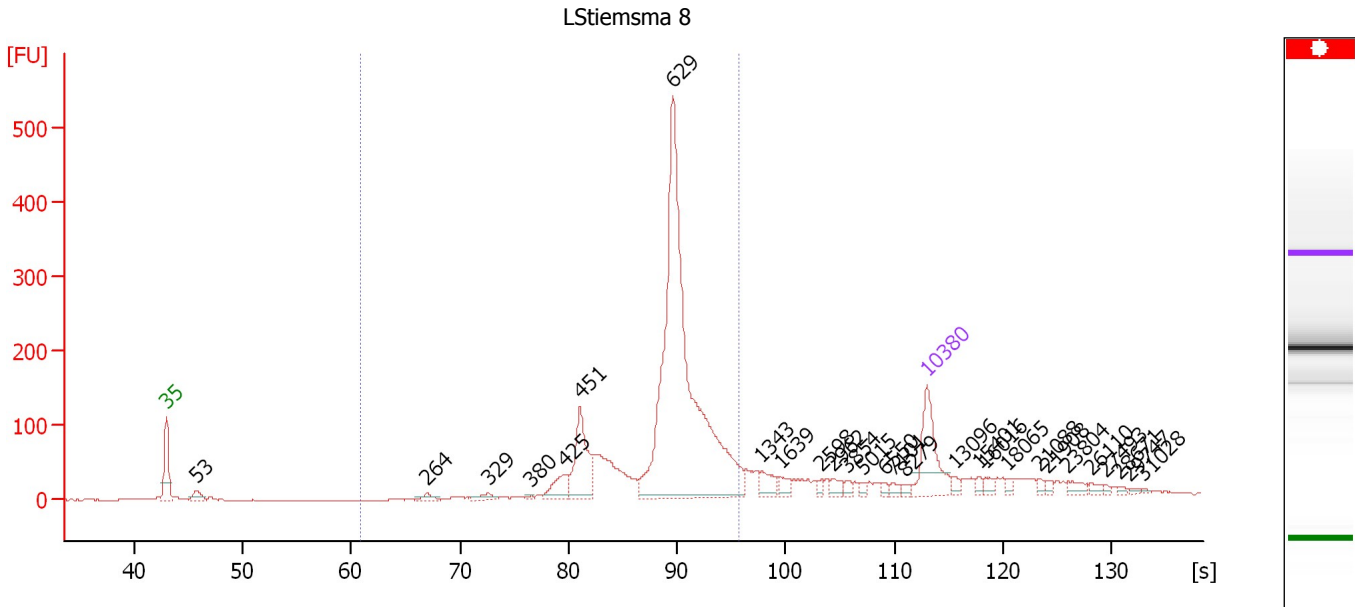
... Region table for sample 4 : LTKhuat 24

| From [s] | To [s] | Average Size [bp] | Conc. [pg/ μ l] | Corr. Area | Molarity [pmol/l] | Co % of lor Total | Size distribution in CV [%] |
|----------|--------|-------------------|---------------------|------------|-------------------|--|-----------------------------|
| 60.91 | 95.78 | 641 | 1,508.06 | 2,793.7 | 3,600.7 |  88 | 10.6 |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-09-11\2019-09-11_004.xad

Created: 9/11/2019 12:26:23 PM
 Modified: 9/11/2019 1:04:56 PM

Electropherogram Summary Continued ...



Overall Results for sample 5 : LStiemsma 8

Number of peaks found: 28 Corr. Area 1: 2,008.4
 Noise: 0.5

Peak table for sample 5 : LStiemsma 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 | 53 | 19.33 | 549.6 | | 45.77 |
| 3 | 264 | 10.18 | 58.4 | | 66.98 |
| 4 | 329 | 10.79 | 49.7 | | 72.61 |
| 5 | 380 | 2.72 | 10.8 | | 76.62 |
| 6 | 425 | 36.86 | 131.4 | | 79.63 |
| 7 | 451 | 104.37 | 350.9 | | 81.06 |
| 8 | 629 | 766.90 | 1,847.0 | | 89.62 |
| 9 | 1,343 | 21.93 | 24.7 | | 97.77 |
| 10 | 1,639 | 13.04 | 12.1 | | 99.50 |
| 11 | 2,598 | 5.62 | 3.3 | | 103.31 |
| 12 | 2,962 | 10.90 | 5.6 | | 104.35 |
| 13 | 3,854 | 6.41 | 2.5 | | 105.58 |
| 14 | 5,015 | 5.55 | 1.7 | | 107.12 |
| 15 | 6,550 | 4.94 | 1.1 | | 109.14 |
| 16 | 7,101 | 6.84 | 1.5 | | 109.84 |
| 17 | 8,279 | 4.89 | 0.9 | | 110.97 |
| 18 | 10,380 | 75.00 | 10.9 | Upper Marker | 113.00 |
| 19 | 13,096 | 0.00 | 0.0 | | 115.62 |
| 20 | 15,401 | 0.00 | 0.0 | | 117.84 |
| 21 | 16,016 | 0.00 | 0.0 | | 118.44 |
| 22 | 18,065 | 0.00 | 0.0 | | 120.42 |
| 23 | 21,088 | 0.00 | 0.0 | | 123.33 |
| 24 | 21,908 | 0.00 | 0.0 | | 124.12 |
| 25 | 23,804 | 0.00 | 0.0 | | 125.95 |


Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2019-09-11\2019-09-11_004.xad

Created: 9/11/2019 12:26:23 PM
Modified: 9/11/2019 1:04:56 PM

Electropherogram Summary Continued ...**... Peak table for sample 5 : LStiemsma 8**

| Peak | Size [bp] | Conc. [pg/ μ l] | Molarity [pmol/l] | Observations | Aligned Migration Time [s] |
|------|-----------|---------------------|-------------------|--------------|----------------------------|
| 26 | 26,110 | 0.00 | 0.0 | | 128.18 |
| 27 | 27,493 | 0.00 | 0.0 | | 129.51 |
| 28 | 28,671 | 0.00 | 0.0 | | 130.65 |
| 29 | 29,747 | 0.00 | 0.0 | | 131.69 |
| 30 | 31,028 | 0.00 | 0.0 | | 132.92 |

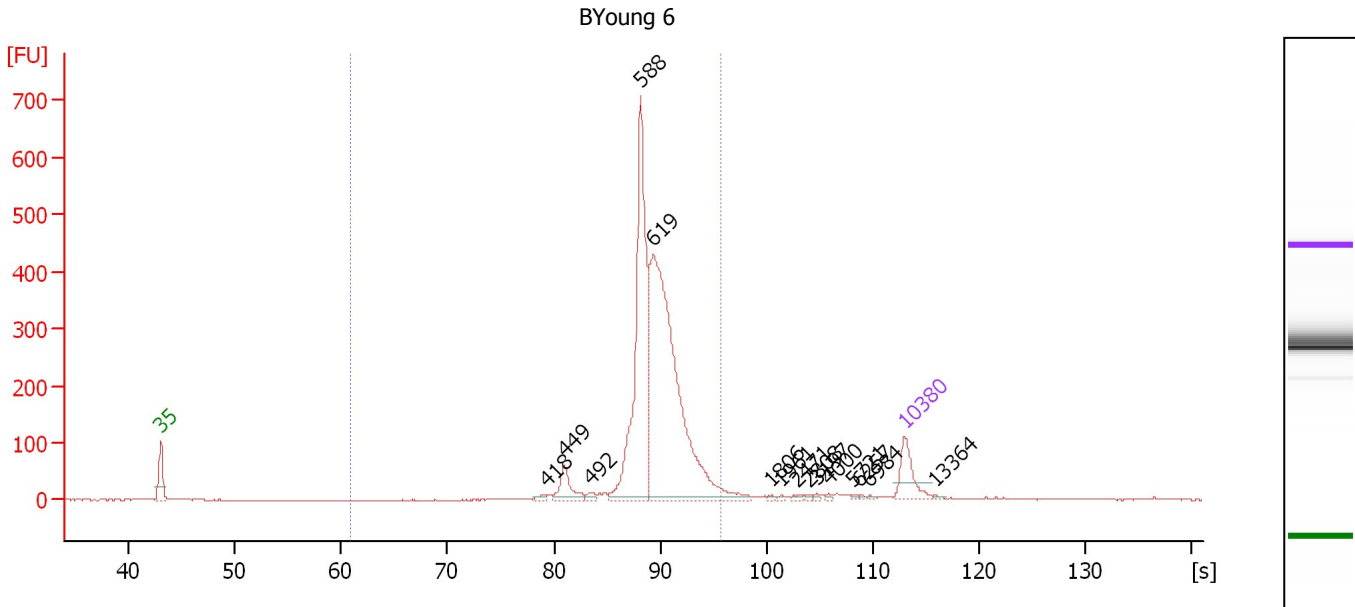
Region table for sample 5 : LStiemsma 8

| From [s] | To [s] | Average Size [bp] | Conc. [pg/ μ l] | Corr. Area | Molarity [pmol/l] | Co % of lor Total | Size distribution in CV [%] |
|----------|--------|-------------------|---------------------|------------|-------------------|--|-----------------------------|
| 60.91 | 95.78 | 630 | 999.49 | 2,008.4 | 2,541.0 |  75 | 19.7 |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-09-11\2019-09-11_004.xad

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Electropherogram Summary Continued ...



Overall Results for sample 6 : BYoung 6

Number of peaks found: 15 Corr. Area 1: 2,524.8
 Noise: 0.6

Peak table for sample 6 : BYoung 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 | 418 | 9.01 | 32.6 | | 79.26 |
| 3 | 449 | 70.62 | 238.3 | | 80.98 |
| 4 | 492 | 10.91 | 33.6 | | 83.40 |
| 5 | 588 | 681.28 | 1,755.9 | | 88.15 |
| 6 | 619 | 1,072.48 | 2,625.5 | | 89.31 |
| 7 | 1,806 | 2.96 | 2.5 | | 100.47 |
| 8 | 1,961 | 3.34 | 2.6 | | 101.38 |
| 9 | 2,471 | 5.12 | 3.1 | | 102.95 |
| 10 | 2,808 | 3.77 | 2.0 | | 103.91 |
| 11 | 3,197 | 3.86 | 1.8 | | 104.72 |
| 12 | 4,000 | 4.36 | 1.7 | | 105.78 |
| 13 | 5,721 | 3.12 | 0.8 | | 108.05 |
| 14 | 6,257 | 3.00 | 0.7 | | 108.76 |
| 15 | 6,984 | 3.10 | 0.7 | | 109.72 |
| 16 | 10,380 | 75.00 | 10.9 | Upper Marker | 113.00 |
| 17 | 13,364 | 0.00 | 0.0 | | 115.88 |

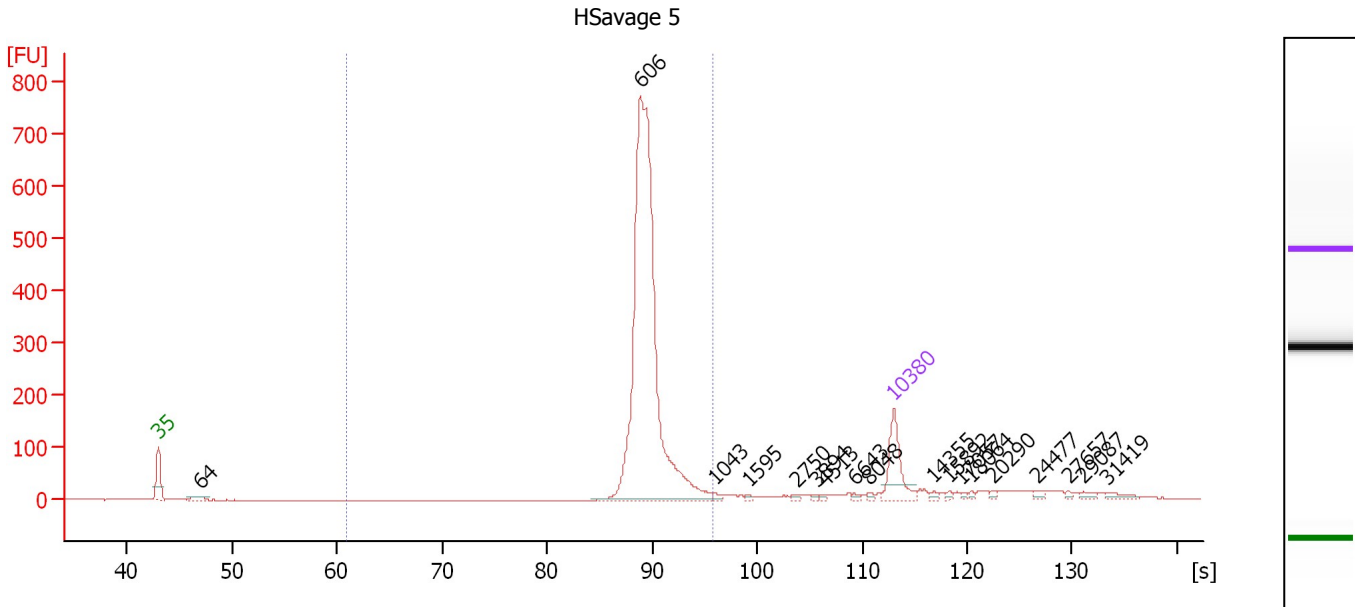
Region table for sample 6 : BYoung 6

| From [s] | To [s] | Average Size [bp] | Conc. [pg/μl] | Corr. Area | Molarity [pmol/l] | Co % of Ior Total | Size distribution in CV [%] |
|----------|--------|-------------------|---------------|------------|-------------------|-------------------|-----------------------------|
| 60.91 | 95.78 | 634 | 1,831.09 | 2,524.8 | 4,470.5 | 93 | 13.6 |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-09-11\2019-09-11_004.xad

Created: 9/11/2019 12:26:23 PM
 Modified: 9/11/2019 1:04:56 PM

Electropherogram Summary Continued ...



Overall Results for sample 7 : HSavage 5

Number of peaks found: 18 Corr. Area 1: 2,050.3
 Noise: 0.4

Peak table for sample 7 : HSavage 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 | 64 | 18.15 | 431.0 | | 46.99 |
| 3 | 606 | 1,071.19 | 2,679.8 | | 88.92 |
| 4 | 1,043 | 5.07 | 7.4 | | 96.02 |
| 5 | 1,595 | 3.27 | 3.1 | | 99.25 |
| 6 | 2,750 | 3.48 | 1.9 | | 103.75 |
| 7 | 3,894 | 2.76 | 1.1 | | 105.64 |
| 8 | 4,513 | 2.96 | 1.0 | | 106.46 |
| 9 | 6,643 | 4.27 | 1.0 | | 109.27 |
| 10 | 8,048 | 3.70 | 0.7 | | 110.75 |
| 11 | 10,380 | 75.00 | 10.9 | Upper Marker | 113.00 |
| 12 | 14,355 | 0.00 | 0.0 | | 116.83 |
| 13 | 15,892 | 0.00 | 0.0 | | 118.32 |
| 14 | 17,057 | 0.00 | 0.0 | | 119.44 |
| 15 | 18,064 | 0.00 | 0.0 | | 120.41 |
| 16 | 20,290 | 0.00 | 0.0 | | 122.56 |
| 17 | 24,477 | 0.00 | 0.0 | | 126.60 |
| 18 | 27,657 | 0.00 | 0.0 | | 129.67 |
| 19 | 29,087 | 0.00 | 0.0 | | 131.05 |
| 20 | 31,419 | 0.00 | 0.0 | | 133.30 |

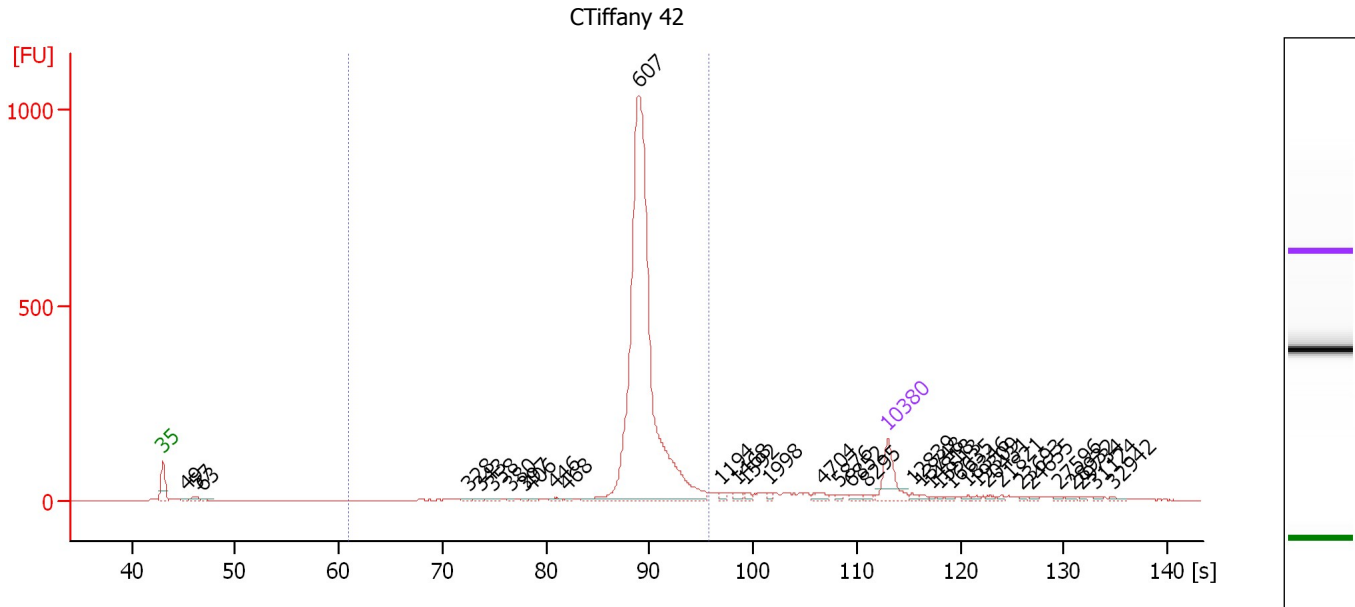
Region table for sample 7 : HSavage 5

| From [s] | To [s] | Average Size [bp] | Conc. [pg/μl] | Corr. Area | Molarity [pmol/l] | Co % of Total | Size distribution in CV [%] |
|----------|--------|-------------------|---------------|------------|-------------------|---------------|-----------------------------|
| 60.91 | 95.78 | 634 | 1,056.12 | 2,050.3 | 2,542.9 | 84 | 9.3 |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-09-11\2019-09-11_004.xad

Created: 9/11/2019 12:26:23 PM
 Modified: 9/11/2019 1:04:56 PM

Electropherogram Summary Continued ...



Overall Results for sample 8 : CTiffany 42

Number of peaks found: 36 Corr. Area 1: 2,717.6
 Noise: 0.5

Peak table for sample 8 : CTiffany 42

| 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 | 49 | 8.74 | 268.8 | | 45.27 |
| 3 | 57 | 19.98 | 527.1 | | 46.25 |
| 4 | 63 | 7.41 | 177.5 | | 46.92 |
| 5 | 328 | 4.33 | 20.0 | | 72.51 |
| 6 | 343 | 5.46 | 24.1 | | 73.74 |
| 7 | 358 | 6.65 | 28.2 | | 74.88 |
| 8 | 380 | 3.19 | 12.7 | | 76.63 |
| 9 | 397 | 4.25 | 16.2 | | 77.97 |
| 10 | 406 | 4.30 | 16.1 | | 78.54 |
| 11 | 446 | 7.31 | 24.8 | | 80.81 |
| 12 | 468 | 3.96 | 12.8 | | 82.05 |
| 13 | 607 | 1,453.64 | 3,627.5 | | 88.96 |
| 14 | 1,194 | 8.63 | 11.0 | | 96.91 |
| 15 | 1,468 | 8.40 | 8.7 | | 98.50 |
| 16 | 1,592 | 7.17 | 6.8 | | 99.23 |
| 17 | 1,998 | 5.51 | 4.2 | | 101.60 |
| 18 | 4,704 | 12.71 | 4.1 | | 106.71 |
| 19 | 5,876 | 4.99 | 1.3 | | 108.25 |
| 20 | 6,852 | 9.20 | 2.0 | | 109.54 |
| 21 | 8,295 | 5.27 | 1.0 | | 110.99 |
| 22 | 10,380 | 75.00 | 10.9 | Upper Marker | 113.00 |
| 23 | 12,839 | 0.00 | 0.0 | | 115.37 |
| 24 | 13,748 | 0.00 | 0.0 | | 116.25 |
| 25 | 14,818 | 0.00 | 0.0 | | 117.28 |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-09-11\2019-09-11_004.xad


Created: 9/11/2019 12:26:23 PM
 Modified: 9/11/2019 1:04:56 PM

Electropherogram Summary Continued ...

... Peak table for sample 8 : CTiffany 42

| Peak | Size [bp] | Conc. [pg/ μ l] | Molarity [pmol/l] | Observations | Aligned Migration Time [s] |
|------|-----------|---------------------|-------------------|--------------|----------------------------|
| 26 | 15,513 | 0.00 | 0.0 | | 117.95 |
| 27 | 16,635 | 0.00 | 0.0 | | 119.04 |
| 28 | 18,346 | 0.00 | 0.0 | | 120.69 |
| 29 | 19,309 | 0.00 | 0.0 | | 121.61 |
| 30 | 20,431 | 0.00 | 0.0 | | 122.70 |
| 31 | 21,821 | 0.00 | 0.0 | | 124.04 |
| 32 | 23,693 | 0.00 | 0.0 | | 125.84 |
| 33 | 24,655 | 0.00 | 0.0 | | 126.77 |
| 34 | 27,596 | 0.00 | 0.0 | | 129.61 |
| 35 | 28,932 | 0.00 | 0.0 | | 130.90 |
| 36 | 29,734 | 0.00 | 0.0 | | 131.67 |
| 37 | 31,124 | 0.00 | 0.0 | | 133.01 |
| 38 | 32,942 | 0.00 | 0.0 | | 134.77 |

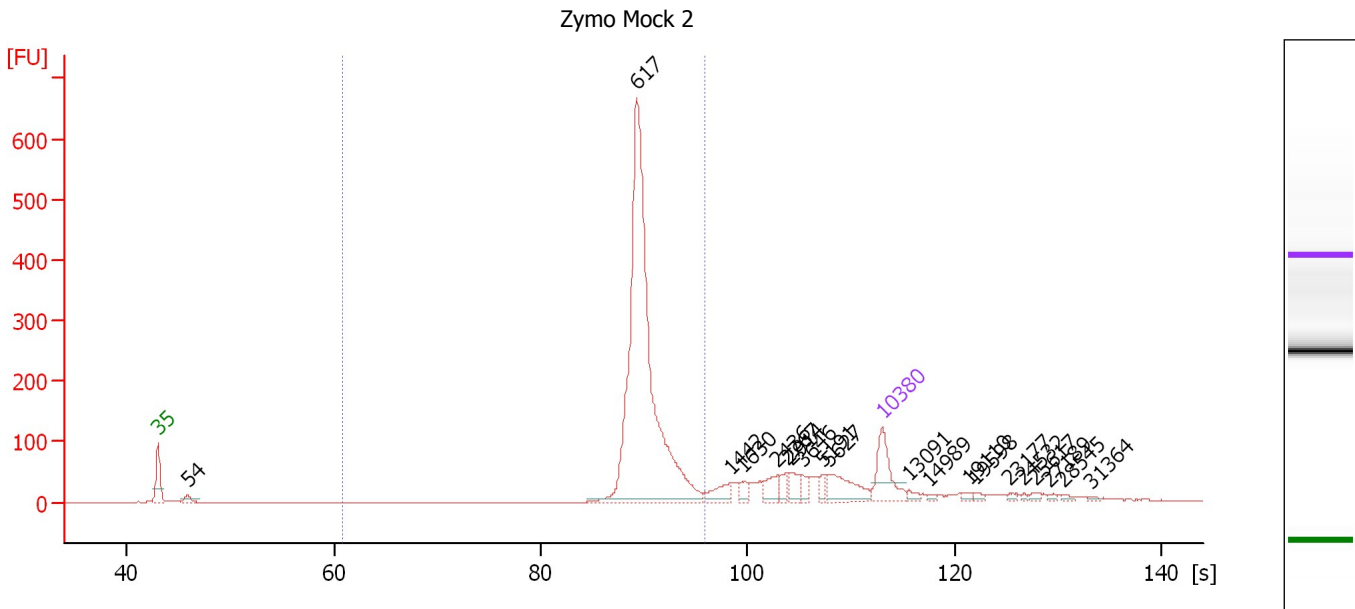
Region table for sample 8 : CTiffany 42

| From [s] | To [s] | Average Size [bp] | Conc. [pg/ μ l] | Corr. Area | Molarity [pmol/l] | Co % of lor Total | Size distribution in CV [%] |
|----------|--------|-------------------|---------------------|------------|-------------------|--|-----------------------------|
| 60.91 | 95.78 | 627 | 1,494.37 | 2,717.6 | 3,683.7 |  85 | 12.0 |

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-09-11\2019-09-11_004.xad

Created: 9/11/2019 12:26:23 PM
 Modified: 9/11/2019 1:04:56 PM

Electropherogram Summary Continued ...



Overall Results for sample 10 : Zymo Mock 2

Number of peaks found: 20 Corr. Area 1: 1,646.2
 Noise: 0.6

Peak table for sample 10 : Zymo Mock 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 | 54 | 18.13 | 506.6 | | 45.88 |
| 3 | 617 | 990.84 | 2,434.2 | | 89.25 |
| 4 | 1,442 | 31.79 | 33.4 | | 98.35 |
| 5 | 1,630 | 15.62 | 14.5 | | 99.45 |
| 6 | 2,436 | 29.82 | 18.5 | | 102.85 |
| 7 | 2,767 | 16.75 | 9.2 | | 103.79 |
| 8 | 2,914 | 23.62 | 12.3 | | 104.21 |
| 9 | 3,646 | 16.54 | 6.9 | | 105.31 |
| 10 | 5,191 | 13.49 | 3.9 | | 107.35 |
| 11 | 5,627 | 64.41 | 17.3 | | 107.93 |
| 12 | 10,380 | 75.00 | 10.9 | Upper Marker | 113.00 |
| 13 | 13,091 | 0.00 | 0.0 | | 115.62 |
| 14 | 14,989 | 0.00 | 0.0 | | 117.45 |
| 15 | 19,110 | 0.00 | 0.0 | | 121.42 |
| 16 | 19,598 | 0.00 | 0.0 | | 121.89 |
| 17 | 23,177 | 0.00 | 0.0 | | 125.35 |
| 18 | 24,532 | 0.00 | 0.0 | | 126.65 |
| 19 | 25,617 | 0.00 | 0.0 | | 127.70 |
| 20 | 27,189 | 0.00 | 0.0 | | 129.22 |
| 21 | 28,545 | 0.00 | 0.0 | | 130.53 |
| 22 | 31,364 | 0.00 | 0.0 | | 133.25 |


Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2019-09-11\2019-09-11_004.xad

Created: 9/11/2019 12:26:23 PM
Modified: 9/11/2019 1:04:56 PM

Electropherogram Summary Continued ...

... Region table for sample 10 :

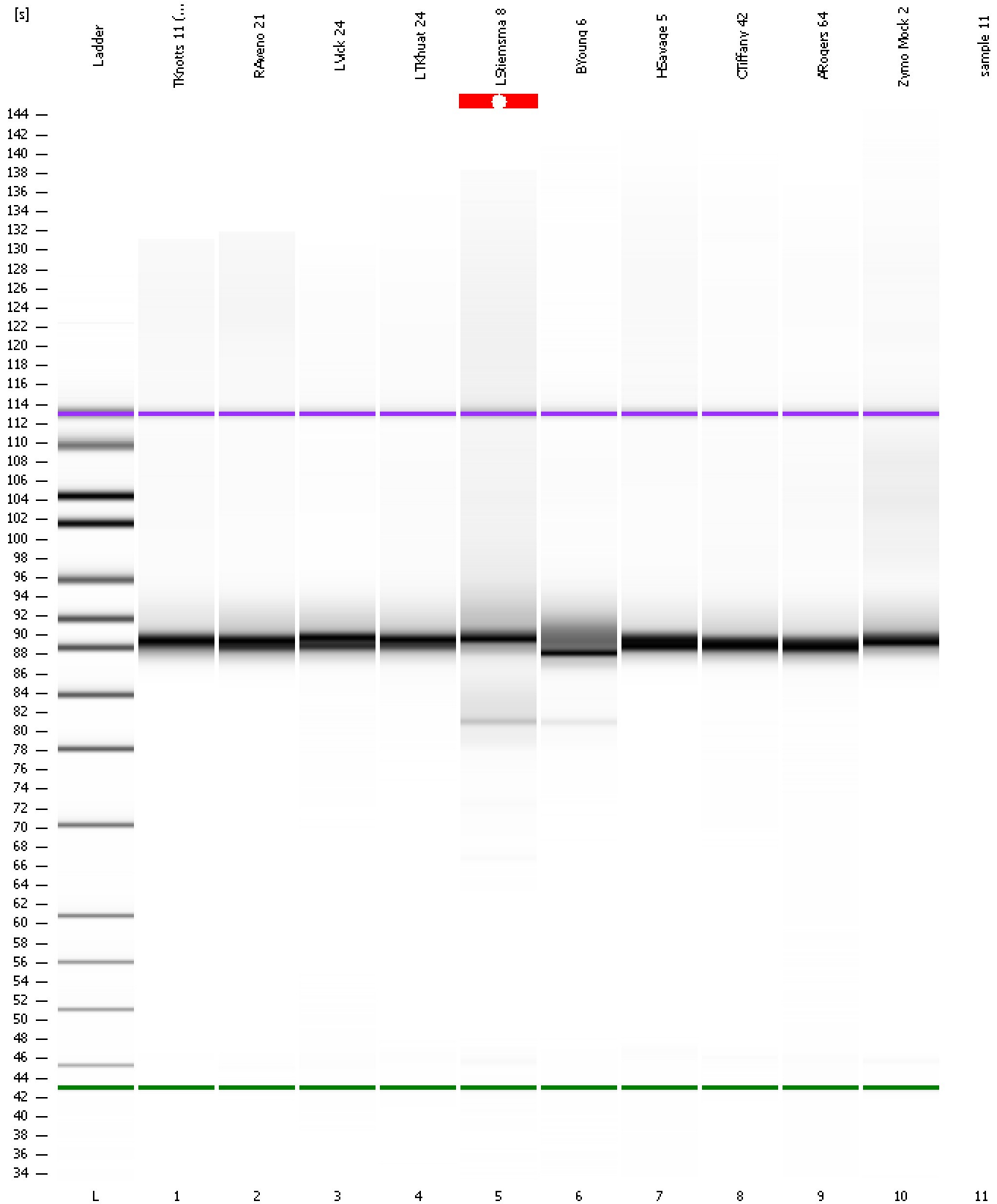
Zymo Mock 2

| From [s] | To [s] | Average Size [bp] | Conc. [pg/ μ l] | Corr. Area | Molarity [pmol/l] | Co % of lor Total | Size distribution in CV [%] |
|----------|--------|-------------------|---------------------|------------|-------------------|--|-----------------------------|
| 60.91 | 95.78 | 651 | 977.44 | 1,646.2 | 2,297.5 |  69 | 10.9 |

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2019-09-11\2019-09-11_004.xad

Created: 9/11/2019 12:26:23 PM
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Gel Image

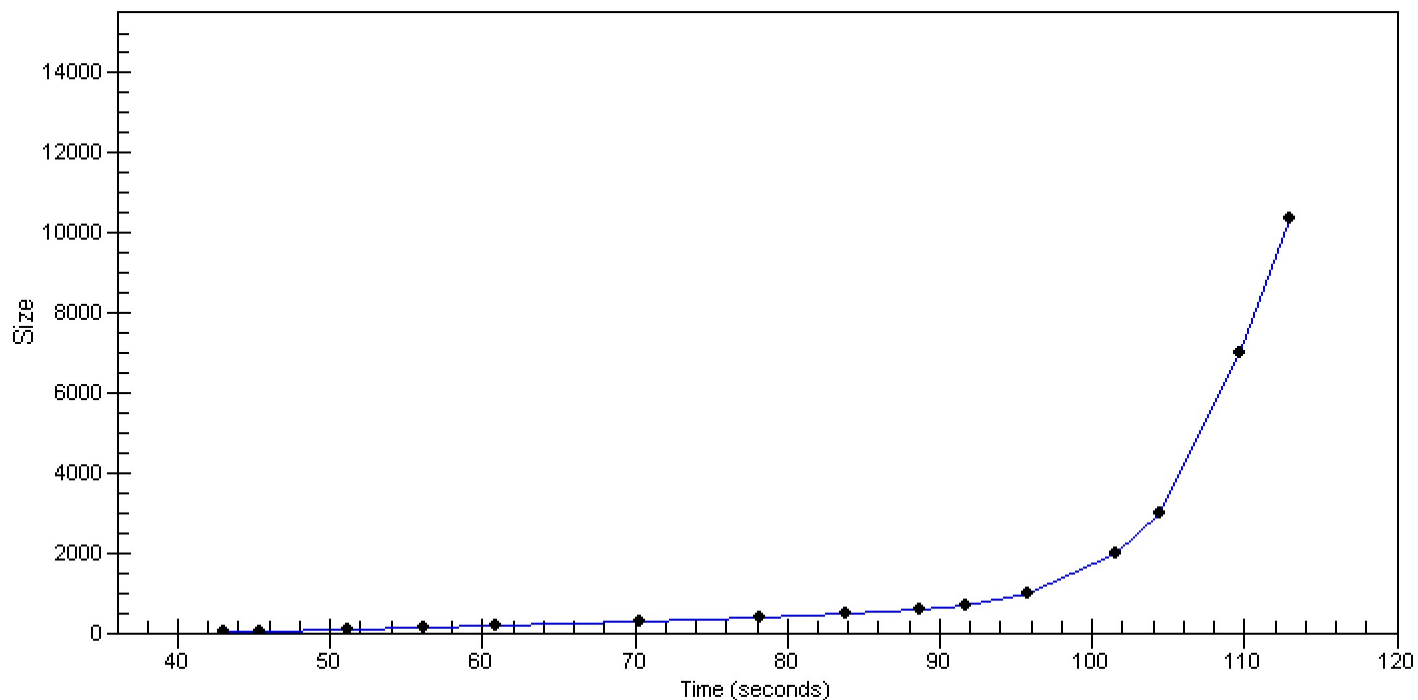


Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2019-09-11\2019-09-11_004.xad

Created: 9/11/2019 12:26:23 PM
Modified: 9/11/2019 1:04:56 PM

Curves

Standard Curve



Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2019-09-11\2019-09-11_004.xad

Created: 9/11/2019 12:26:23 PM
Modified: 9/11/2019 1:04:56 PM

Invalid Samples

Sample 11 has not been run, no results available.

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-09-11\2019-09-11_004.xad

Created: 9/11/2019 12:26:23 PM
 Modified: 9/11/2019 1:04:56 PM

Run Logbook

| Description | Number | Source | Category | Sub Category | Time | Time Zone | User | Host |
|--|--------|------------|----------|--------------|-----------------------|-------------------------------------|----------|----------|
| Run ended on port 1 (Number of wells acquired: 11) | | Instrument | Run | | 9/11/2019 1:04:49 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\2019-09-11\2019-09-11_004.xad) | | Instrument | Run | | 9/11/2019 12:26:28 PM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Product Number : G2938C | | Instrument | Run | | 9/11/2019 12:26:28 PM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Name : | | Instrument | Run | | 9/11/2019 12:26:28 PM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Vendor : Agilent Technologies | | Instrument | Run | | 9/11/2019 12:26:28 PM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Serial# : DE34903152 | | Instrument | Run | | 9/11/2019 12:26:28 PM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Firmware : C.01.069 | | Instrument | Run | | 9/11/2019 12:26:28 PM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |
| Cartridge : Electrode | | Instrument | Run | | 9/11/2019 12:26:28 PM | (GMT --07:00) Pacific Standard Time | UC Davis | D8XSMGH1 |